Supplementary Information (SI) for Analytical Methods.

# Galactose Oxidase Oxidation and Glycosidase Digestion for GlycoRNA Analysis

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## Experiments and Data Analysis

**Comprehensive Workflow for Small RNA Sequences**. Sequence small RNAs using the Illumina HiSeq or MGISEQ-2000 platform with paired-end reads of 150 base pairs (PE150) to generate Illumina NGS data. Analyze GlycoRNA data on Ubuntu 20.04.6 by following this detailed workflow to examine the raw data (Pass Filter Data).

**Raw RNA-seq Data Processing**. Initially, raw sequencing data undergoes quality control and preprocessing using Trimmomatic software (version 0.30). This step eliminates adapter sequences and low-quality reads, resulting in clean data suitable for further analysis. The output is a high-quality dataset devoid of adapter contamination and low-quality sequences, ensuring reliable and accurate downstream analysis.

**Small RNA Identification**. Next, the Rfam database (version 14), containing a comprehensive collection of non-coding RNA family sequences, is downloaded, along with the Homo_sapiens.GRCh38.ncrna.fa file containing human genomic non-coding RNA data. These resources are combined to create a non-coding RNA database. BLASTN (V2.2.28+) is then used to align the Clean Data with this database, identifying the most optimal matches to classify non-coding miRNAs, tRNAs, and snoRNAs.

## Supplementary Tables

**Table S1. The list of identified glycosylated miRNAs from colon tissue.** The N-glycoRNAs are enriched by SPCgRNA. NT = Nucleotide Length, TPM = Transcripts Per Million, PCA = Paracancerous Tissue, CA = Cancer Tissue.

| Gene | NT | PCA-TPM | | | | CA-TPM | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | #1 | #2 | #3 | #4 | #1 | #2 | #3 | #4 |
| let-7a-3p | 21 | 0 | 6.66 | 40.68 | 0 | 0 | 102.97 | 259.78 | 0 |
| let-7b-5p | 22 | 0 | 492.74 | 399.61 | 0 | 0 | 289.59 | 116.32 | 0 |
| let-7c-5p | 22 | 0 | 0 | 31.11 | 0 | 0 | 0 | 0 | 42.18 |
| let-7e-5p | 22 | 0 | 43.28 | 0 | 0 | 0 | 0 | 0 | 87.37 |
| let-7i-5p | 22 | 0 | 0 | 1275.4 | 346.39 | 0 | 0 | 639.76 | 2009.53 |
| miR-106a-5p | 23 | 0 | 0 | 23.93 | 22.71 | 0 | 83.66 | 0 | 0 |
| miR-106b-3p | 22 | 0 | 0 | 703.5 | 0 | 0 | 0 | 4424.02 | 3136.31 |
| miR-10b-5p | 23 | 8899.05 | 18990.36 | 82996.74 | 0 | 9103.41 | 7020.95 | 19502.93 | 0 |
| miR-1185-1-3p | 22 | 0 | 0 | 0 | 0 | 0 | 64.35 | 42.65 | 0 |
| miR-125a-5p | 24 | 335.33 | 542.68 | 0 | 0 | 221.93 | 250.98 | 0 | 0 |
| miR-125b-5p | 22 | 388.28 | 635.9 | 0 | 0 | 413.4 | 360.38 | 0 | 0 |
| miR-1260b | 19 | 0 | 0 | 445.07 | 0 | 0 | 1962.78 | 2958.4 | 1021.34 |
| miR-127-5p | 22 | 892.26 | 1201.88 | 0 | 0 | 857.25 | 572.75 | 0 | 0 |
| miR-1296-5p | 22 | 213.75 | 236.38 | 0 | 119.25 | 130.55 | 0 | 0 | 34.65 |
| miR-133a-3p | 22 | 145.11 | 289.65 | 0 | 0 | 87.03 | 96.53 | 0 | 0 |
| miR-135b-3p | 22 | 0 | 0 | 0 | 0 | 0 | 0 | 263.66 | 149.13 |
| miR-135b-5p | 23 | 0 | 0 | 0 | 0 | 356.83 | 257.41 | 0 | 0 |
| miR-139-5p | 23 | 27.45 | 53.27 | 0 | 0 | 0 | 0 | 0 | 0 |
| miR-1-3p | 22 | 0 | 429.48 | 1634.33 | 0 | 0 | 180.19 | 434.26 | 0 |
| miR-142-3p | 23 | 0 | 342.92 | 0 | 0 | 0 | 0 | 0 | 213.91 |
| miR-143-3p | 21 | 0 | 152152.56 | 0 | 64656.45 | 0 | 86265.7 | 0 | 404361.31 |
| miR-143-5p | 22 | 2910.13 | 2586.87 | 971.51 | 0 | 1740.61 | 1242.02 | 5905.16 | 0 |
| miR-145-3p | 22 | 302 | 712.47 | 0 | 0 | 161.01 | 173.75 | 0 | 0 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| miR-146a-5p | 22 | 0 | 0 | 983.47 | 0 | 0 | 0 | 407.12 | 735.12 |
| miR-146b-5p | 23 | 0 | 0 | 1579.29 | 164.68 | 1005.2 | 0 | 922.8 | 1465.72 |
| miR-148a-5p | 22 | 878.53 | 0 | 390.04 | 306.64 | 983.45 | 0 | 131.83 | 108.46 |
| miR-149-5p | 23 | 33.34 | 0 | 21.54 | 0 | 0 | 0 | 0 | 0 |
| miR-15a-5p | 22 | 0 | 0 | 0 | 0 | 82.68 | 0 | 54.28 | 0 |
| miR-16-5p | 22 | 115.7 | 143.16 | 1689.37 | 56.79 | 1527.39 | 965.3 | 814.24 | 513.68 |
| miR-17-5p | 23 | 402.01 | 506.05 | 799.22 | 289.61 | 5474.23 | 3616.66 | 434.26 | 171.73 |
| miR-181a-3p | 22 | 0 | 0 | 23.93 | 28.39 | 0 | 0 | 531.19 | 341.95 |
| miR-181c-3p | 22 | 0 | 0 | 7.18 | 0 | 0 | 0 | 158.97 | 106.95 |
| miR-181d-5p | 23 | 0 | 0 | 0 | 0 | 91.38 | 64.35 | 0 | 0 |
| miR-182-5p | 24 | 145.11 | 0 | 2002.83 | 130.61 | 1257.59 | 0 | 65.91 | 63.27 |
| miR-183-5p | 22 | 80.4 | 0 | 478.57 | 0 | 822.44 | 0 | 0 | 0 |
| miR-185-3p | 22 | 41.18 | 0 | 14.36 | 0 | 21.76 | 0 | 189.99 | 0 |
| miR-186-5p | 22 | 5930.09 | 6888.33 | 3929.09 | 1993.19 | 6749.23 | 4080 | 2694.74 | 1256.33 |
| miR-188-5p | 21 | 0 | 0 | 0 | 0 | 43.52 | 51.48 | 0 | 0 |
| miR-18a-5p | 23 | 21.57 | 39.95 | 0 | 22.71 | 361.18 | 212.37 | 0 | 0 |
| miR-192-3p | 22 | 0 | 0 | 131.61 | 28.39 | 0 | 0 | 11.63 | 9.04 |
| miR-192-5p | 21 | 70861 | 154453.11 | 146175.71 | 36791.6 | 78832.4 | 76895.85 | 2113.14 | 2359.01 |
| miR-194-5p | 22 | 0 | 0 | 14048.55 | 3997.73 | 0 | 0 | 205.5 | 147.63 |
| miR-196b-3p | 22 | 0 | 0 | 4.79 | 0 | 0 | 0 | 209.38 | 170.22 |
| miR-196b-5p | 22 | 0 | 0 | 399.61 | 0 | 0 | 0 | 108.57 | 138.59 |
| miR-19a-3p | 23 | 94.13 | 83.23 | 105.29 | 34.07 | 0 | 0 | 0 | 0 |
| miR-200a-3p | 22 | 0 | 0 | 10487.95 | 4968.77 | 0 | 0 | 5672.52 | 4347.45 |
| miR-200a-5p | 22 | 0 | 0 | 1067.22 | 982.4 | 0 | 0 | 73.67 | 79.84 |
| miR-200b-5p | 22 | 0 | 0 | 201 | 68.14 | 0 | 0 | 38.77 | 12.05 |
| miR-20a-3p | 22 | 0 | 0 | 4.79 | 0 | 0 | 0 | 143.46 | 66.28 |
| miR-20a-5p | 23 | 1543.31 | 1621.37 | 2433.55 | 897.22 | 19003.15 | 10599 | 1178.71 | 445.89 |
| miR-210-3p | 22 | 531.43 | 945.52 | 0 | 0 | 522.18 | 527.7 | 0 | 0 |
| miR-21-3p | 21 | 0 | 569.31 | 473.79 | 0 | 0 | 3623.1 | 4776.86 | 0 |
| miR-214-3p | 22 | 0 | 0 | 71.79 | 0 | 221.93 | 0 | 348.96 | 0 |
| miR-215-5p | 21 | 0 | 23168.63 | 39278.98 | 6763.2 | 0 | 10895.03 | 488.54 | 497.11 |
| miR-21-5p | 22 | 33870.52 | 47366.02 | 0 | 23503.69 | 357796.21 | 301328.25 | 0 | 225249.57 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| miR-217-5p | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 65.91 | 54.23 |
| miR-218-5p | 21 | 0 | 39.95 | 0 | 0 | 0 | 0 | 0 | 78.33 |
| miR-221-5p | 22 | 0 | 0 | 74.18 | 0 | 174.06 | 0 | 0 | 0 |
| miR-223-3p | 22 | 19.61 | 0 | 0 | 0 | 461.26 | 315.33 | 0 | 0 |
| miR-224-5p | 25 | 0 | 0 | 0 | 0 | 369.88 | 373.25 | 0 | 0 |
| miR-23b-3p | 23 | 0 | 592.62 | 1445.29 | 0 | 0 | 0 | 0 | 0 |
| miR-26a-5p | 22 | 484.37 | 496.07 | 5587.35 | 0 | 3768.43 | 2844.42 | 3078.59 | 0 |
| miR-26b-5p | 21 | 15.69 | 33.29 | 220.14 | 0 | 178.41 | 186.62 | 108.57 | 0 |
| miR-27a-3p | 21 | 1682.54 | 702.48 | 3196.88 | 0 | 14625.51 | 12130.61 | 25291.77 | 0 |
| miR-28-3p | 22 | 6351.7 | 12082.05 | 0 | 0 | 4978.16 | 5682.4 | 0 | 0 |
| miR-30c-2-3p | 22 | 25.49 | 63.26 | 0 | 0 | 0 | 12.87 | 0 | 0 |
| miR-3158-3p | 22 | 15.69 | 26.63 | 0 | 0 | 0 | 0 | 0 | 0 |
| miR-320a-3p | 22 | 0 | 1524.82 | 0 | 0 | 0 | 727.19 | 0 | 772.78 |
| miR-335-3p | 22 | 41.18 | 19.98 | 0 | 0 | 718 | 405.43 | 0 | 0 |
| miR-362-5p | 24 | 0 | 0 | 45.46 | 28.39 | 0 | 0 | 0 | 0 |
| miR-374a-3p | 22 | 86.28 | 116.53 | 0 | 221.47 | 918.17 | 559.87 | 0 | 1840.81 |
| miR-374a-5p | 22 | 154.92 | 119.85 | 0 | 0 | 1932.08 | 778.68 | 0 | 0 |
| miR-374b-5p | 22 | 84.32 | 73.24 | 0 | 0 | 818.09 | 398.99 | 0 | 0 |
| miR-375-3p | 22 | 3086.63 | 12348.39 | 4031.99 | 0 | 1993 | 3719.63 | 1407.47 | 0 |
| miR-378a-3p | 22 | 87457 | 142154.66 | 48391.03 | 63912.55 | 35055.96 | 35722.56 | 17219.18 | 13018.26 |
| miR-378a-5p | 22 | 158.84 | 196.43 | 71.79 | 51.11 | 121.84 | 64.35 | 34.9 | 21.09 |
| miR-378d | 20 | 3374.89 | 5163.75 | 2299.55 | 0 | 0 | 0 | 0 | 0 |
| miR-378i | 21 | 1537.43 | 2363.81 | 574.29 | 0 | 0 | 0 | 0 | 0 |
| miR-381-3p | 22 | 4614.25 | 0 | 0 | 3781.94 | 4912.88 | 0 | 0 | 3178.49 |
| miR-382-3p | 21 | 0 | 0 | 21.54 | 0 | 0 | 77.22 | 178.36 | 0 |
| miR-3913-5p | 22 | 0 | 53.27 | 31.11 | 0 | 0 | 0 | 0 | 0 |
| miR-3934-5p | 22 | 17.65 | 29.96 | 0 | 0 | 0 | 0 | 0 | 0 |
| miR-409-5p | 23 | 0 | 0 | 0 | 0 | 34.81 | 70.79 | 0 | 0 |
| miR-424-5p | 22 | 0 | 0 | 0 | 0 | 43.52 | 0 | 31.02 | 0 |
| miR-4454 | 20 | 180.41 | 0 | 0 | 0 | 0 | 0 | 616.49 | 224.45 |
| miR-452-5p | 22 | 0 | 0 | 67 | 0 | 0 | 141.58 | 0 | 46.7 |
| miR-454-3p | 23 | 0 | 0 | 16.75 | 0 | 39.16 | 0 | 0 | 0 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| miR-486-5p | 22 | 125.5 | 0 | 244.07 | 0 | 108.79 | 0 | 104.69 | 0 |
| miR-490-3p | 22 | 45.1 | 123.18 | 52.64 | 0 | 0 | 0 | 767.71 | 0 |
| miR-503-5p | 23 | 0 | 0 | 7.18 | 0 | 108.79 | 96.53 | 143.46 | 76.83 |
| miR-542-3p | 22 | 11.77 | 0 | 0 | 28.39 | 282.85 | 0 | 0 | 593.52 |
| miR-548e-3p | 22 | 0 | 26.63 | 43.07 | 0 | 0 | 0 | 0 | 0 |
| miR-552-3p | 21 | 0 | 0 | 52.64 | 141.96 | 0 | 0 | 833.62 | 861.66 |
| miR-584-5p | 22 | 0 | 0 | 0 | 0 | 73.98 | 70.79 | 0 | 0 |
| miR-652-3p | 21 | 327.49 | 639.23 | 0 | 0 | 313.31 | 218.8 | 0 | 0 |
| miR-654-3p | 22 | 0 | 0 | 11.96 | 0 | 78.33 | 0 | 96.93 | 0 |
| miR-6715b-3p | 22 | 17.65 | 46.61 | 0 | 0 | 0 | 0 | 0 | 0 |
| miR-708-3p | 22 | 0 | 109.87 | 28.71 | 0 | 0 | 0 | 926.68 | 637.2 |
| miR-708-5p | 23 | 25.49 | 49.94 | 19.14 | 0 | 239.33 | 0 | 286.92 | 159.68 |
| miR-769-5p | 22 | 2290.46 | 3608.97 | 0 | 0 | 1670.99 | 1969.21 | 0 | 0 |
| miR-889-3p | 21 | 17.65 | 36.62 | 0 | 0 | 178.41 | 212.37 | 0 | 0 |
| miR-92a-3p | 22 | 0 | 1408.3 | 0 | 494.04 | 0 | 5663.1 | 0 | 5264.85 |
| miR-93-5p | 23 | 0 | 0 | 1328.04 | 533.79 | 0 | 0 | 763.83 | 441.37 |
| miR-9983-3p | 22 | 15.69 | 36.62 | 0 | 0 | 0 | 0 | 0 | 0 |
| miR-99a-5p | 22 | 119.62 | 169.79 | 0 | 0 | 108.79 | 64.35 | 0 | 0 |

**Table S2. The list o identified glycosylated tRNA in paracancerous tissue (PCA) and cancer tissue (CA).** (a) N-linked glycosylated tRNAs from PCA, (b) N-linked glycosylated tRNAs from CA

(a)

| Qseqid | Sseqid | NT | Evalue | Bitscore | Number | Sequence |
|---|---|---|---|---|---|---|
| ex3_966031_x6622 | GL000253.2/247759-247830 | 30 | ###### | 60 | ### | TCCCTGGTGGTCTAGTGGTTAGGATTCGGCGCTCTCACCGCCGCGGCCCGGGTTCGATTCCCGGTCAGGGAA |
| ex3_1082355_x5530 | AF347001.1/16015-15948 | 20 | ###### | 40.1 | ### | CAGAGAAUAGUUUAAAUUAGAAUCUUAGCUUUGGGUGCUAAUGGUGGAGUUAAAGACUUUUUCUCUGA |
| ex3_1098642_x5332 | AC092686.3/29631-29561 | 28 | ###### | 56 | ### | GCAUUGGUGGUUCAGUGGUAGAAUUCUCGCCUGCCACGCGGGAGGCCCGGGUUCGAUUCCCGGCCAAUGCA |
| ex3_1420023_x3131 | AF347015.1/1604-1672 | 17 | ###### | 34.2 | ### | CAGAGUGUAGCUUAACACAAAGCACCCAACUUACACUUAGGAGAUUUCAACUUAACUUGACCGCUCUGA |
| ex3_1574449_x2459 | ENST00000387421.1 | 20 | ###### | 40.1 | ### | CACTGTAAAGCTAACTTAGCATTAACCTTTTAAGTTAAAGATTAAGAGAACCAACACCTC |
| ex3_1619497_x2305 | CM000678.2/3191501-3191573 | 35 | ###### | 69.9 | ### | GCCCGGCTAGCTCAGTCGGTAGAGCATGGGACTCTTAATCTCAGGGTCGTGGGTTCGAGCCCCACGTTGGGCG |
| ex3_1773623_x1843 | CM000663.2/148302805-148302734 | 33 | ###### | 65.9 | ### | GCCGTGATCGTATAGTGGTTAGTACTCTGCGTTGTGGCCGCAGCAACCTCGGTTCGAATCCGAGTCACGGCA |
| ex3_1813187_x1755 | AC093311.2/140036-139968 | 31 | ###### | 61.9 | ### | GUUCUUGUAGUUGAAAUACAACGAUGGUUUUUCAUAUCAUUGGUCGUGGUUGUAGUCCGUGCGAGAAUA |
| ex3_1847796_x1702 | CM000677.2/26082305-26082234 | 31 | ###### | 61.9 | ### | TCCCACATGGTCTAGCGGTTAGGATTCCTGGTTTTCACCCAGGCGGCCCGGGTTCGACTCCCGGTGTGGGAA |

| | | | | | | |
|---|---|---|---|---|---|---|
| ex3_1961494_x1449 | ENST00000387449.1 | 25 | ###### | 50.1 | ### | GAGAAAGCTCACAAGAACTGCTAACTCATGCCCCCATGTCTAACAACATGGCTTTCTCA |
| ex3_2034089_x1332 | ENST00000387441.1 | 22 | ###### | 44.1 | ### | GTAAATATAGTTTAACCAAAACATCAGATTGTGAATCTGACAACAGAGGCTTACGACCCC |
| ex3_2107121_x1219 | CM000663.2/161450677-161450747 | 28 | ###### | 56 | ### | GCATGGGTGGTTCAGTGGTAGAATTCTCGCCTGCCACGCGGGAGGCCCGGGTTCGATTCCCGGCCCATGCA |
| ex3_2196754_x1084 | CM000663.2/145459658-145459729 | 32 | ###### | 63.9 | ### | GGTTCCATGGTGTAATGGTGAGCACTCTGGACTCTGAATCCAGCGATCCGAGTTCGAGTCTCGGTGGAACCT |
| ex3_2346903_x890 | AF382005.1/581-651 | 30 | ###### | 60 | 890 | GUUUAUGUAGCUUACCUCCUCAAAGCAAUACACUGAAAAUGUUUAGACGGGCUCACAUCACCCCAUAAACA |
| ex3_2513440_x726 | CM000675.2/41060809-41060738 | 31 | ###### | 61.9 | 726 | TCCCATATGGTCTAGCGGTTAGGATTCCTGGTTTTCACCCAGGTGGCCCGGGTTCGACTCCCGGTATGGGAA |
| ex3_2677903_x595 | CM000668.2/27295433-27295504 | 20 | ###### | 40.1 | 595 | GGTTCCATGGTGTAATGGTTAGCACTCTGGACTCTGAATCCGGTAATCCGAGTTCAAATCTCGGTGGAACCT |
| ex3_2700757_x576 | AC008443.10/42590-42518 | 39 | ###### | 77.8 | 576 | GCCCGGCUAGCUCAGUCGGUAGAGCAUGAGACUCUUAAUCUCAGGGUCGUGGGUUCGAGCCCCACGUUGGGCG |
| ex3_2703633_x575 | CM000676.2/58239967-58239895 | 41 | ###### | 81.8 | 575 | GCCCGGCTAGCTCAGTCGGTAGAGCATGGGACTCTTAATCCCAGGGTCGTGGGTTCGAGCCCCACGTTGGGCG |
| ex3_2724618_x560 | CM000664.2/202614781-202614713 | 13 | 0.008 | 26.3 | 560 | AAGAGAGTCATAGAAGTTATGGGATTGGCTTGAAACCAATTTCTGGAAGTTCAATTCCTTCCTTTCTTG |
| ex3_28 | ENST000 | 14 | 0.003 | 28.2 | 481 | AGTAAGGTCAGCTAAATAAGCTATCGGGCCCATACCCCGAAAATGTTGGTT |

| | | | | | | |
|---|---|---|---|---|---|---|
| 59322_x481 | 00387377.1 | | | | | ATACCCTTC |
| ex3_2875035_x471 | J01415.2/12138-12206 | 38 | ###### | 75.8 | 471 | GTAAATATAGTTTAACCAAAACATCAGATTGTGAATCTGACAACAGAGGCTTACGACCCCTTATTTACC |
| ex3_2884417_x466 | GL000256.2/251066-250995 | 25 | ###### | 50.1 | 466 | GGTTCCATGGTGTAATGGTTAGCACTCTGGACTCTGAATCCAGCGATCCGAGTTCAAATCTCGGTGGAACCT |
| ex3_3152091_x345 | CM000668.2/28658308-28658237 | 20 | ###### | 40.1 | 345 | GGGGATGTAGCTCAGTGGTAGAGCGCATGCTTAGCATGCATGAGGTCCCGGGTTCGATCCCCAGCATCTCCA |
| ex3_3162391_x341 | AP000442.6/2022-1950 | 26 | ###### | 52 | 341 | GCCCGGAUAGCUCAGUCGGUAGAGCAUCAGACUUUUAAUCUGAGGGUCCAGGGUUCAAGUCCCUGUUCGGGCG |
| ex3_3177530_x333 | CM000665.2/110640242-110640316 | 20 | ###### | 40.1 | 333 | GGTTCCATGGTGTAATGGTGAGCACTCTGGACTCTGAATCCAGAATCAGCTTAAATTAAACCTATACTGTTACTG |
| ex3_3208848_x320 | AC007298.17/145366-145295 | 38 | ###### | 75.8 | 320 | UCCUCGUUAGUAUAGUGGUGAGUAUCCCCGCCUGUCACGCGGGAGACCGGGGUUCGAUUCCCCGACGGGGAG |
| ex3_3271729_x297 | GL000252.2/13342-13414 | 13 | 0.008 | 26.3 | 297 | GCCTGGATAGCTCAGTTGGTAGAACATCAGACTTTTAATCTGACGGTGCAGGGTTCAAGTCCCTGTTCAGGCG |
| ex3_3463015_x237 | ENST00000387409.1 | 32 | ###### | 63.9 | 237 | GGTAAAATGGCTGAGTGAAGCATTGGACTGTAAATCTAAAGACAGGGGTTAGGCCTCTTT |
| ex3_3504270_x224 | CM000681.2/45478687-45478602 | 20 | ###### | 40.1 | 224 | GCCCGGATGATCCTCAGTGGTCTGGGGTGCAGGCTTCAAACCTGTAGCTGTCTAGCGACAGAGTGGTTCAATTCCACCTTTCGGGC |
| ex3_3516903_x220 | CM000668.2/27280342-27280270 | 23 | ###### | 46.1 | 220 | GCTTCTGTAGTGTAGTGGTTATCACGTTCGCCTCACACGCGAAAGGTCCCCGGTTCGAAACCGGGCAGAAGCA |
| ex3_3580548_ | ENST00000387461 | 29 | ###### | 58 | 201 | CAGAGAATAGTTTAAATTAGAATCTTAGCTTTGGGTGCTAATGGTGGAGTTAAAGACTTT |

| | | | | | | |
|---|---|---|---|---|---|---|
| x201 | .2 | | | | | |
| ex3_3683341_x175 | KI270713.1/31706-31635 | 30 | ###### | 60 | 175 | TCCCTGGTGGTCTAGTGGCTAGGATTCGGCGCTTTCACCGCTGCGGCCCGGGTTCGATTCCCGGTCAGGGAA |
| ex3_3695879_x173 | CM000685.2/18674981-18674909 | 35 | ###### | 69.9 | 173 | GGTTCCATAGTGTAGTGGTTATCACGTCTGCTTTACACGCAGAAGGTCCTGGGTTCGAGCCCCAGTGGAACCA |
| ex3_3707043_x171 | AC006449.19/196857-196784 | 23 | ###### | 46.1 | 171 | GUCUCUGUGGCGCAAUCGGUUAGCGCGUUCGGCUGUUAACCGAAAGGUUGGUGGUUCGAGCCCACCCAGGGACG |
| ex3_3722381_x167 | AC008443.10/43006-42934 | 23 | ###### | 46.1 | 167 | GUUUCCGUAGUGUAGUGGUUAUCACGUUCGCCUCACACGCGAAAGGUCCCCGGUUCGAAACCGGGCGGAAACA |
| ex3_3745403_x160 | CM000668.2/26311267-26311196 | 21 | ###### | 42.1 | 160 | GGCCCCATGGTGTAATGGTTAGCACTCTGGACTTTGAATCCAGCGATCCGAGTTCAAATCTCGGTGGGACCT |
| ex3_3771530_x154 | AF346992.1/15890-15955 | 29 | ###### | 58 | 154 | GUCCUUGUAGUAUAAACUAAUACACCAGUCUUGUAAACCGGAGAUGAAAACCUUUUUCCAAGGACA |
| ex3_3783932_x152 | CM000680.2/46089377-46089305 | 30 | ###### | 60 | 152 | GACGAGCTAGCTCAGTCGGTAGAGCATGGGACTCTTAATCCCAGGGTCGTGGGTTTGAGCCCCATGTTGGGCA |
| ex3_3791335_x150 | CM000664.2/70249061-70248991 | 22 | ###### | 44.1 | 150 | GCGCCGCTGGTGTAGTGGTATCATGCAAGATTCCCATTCTTGCGACCCGGGTTCGATTCCCGGGCGGCGCA |
| ex3_3972378_x114 | ENST00000387456.1 | 38 | ###### | 75.8 | 114 | ACTTTTAAAGGATAACAGCTATCCATTGGTCTTAGGCCCCAAAAATTTTGGTGCAACTCC |
| ex3_3986185_x112 | CM000678.2/71426493-71426565 | 22 | ###### | 44.1 | 112 | GCCCTCTTAGCGCAGTGGGCAGCGCGTCAGTCTCATAATCTGAAGGTCCTGAGTTCGAGCCTCAGAGAGGGCA |
| ex3_4008513_x108 | ENST00000387459.1 | 20 | ###### | 40.1 | 108 | GTTCTTGTAGTTGAAATACAACGATGGTTTTTCATATCATTGGTCGTGGTTGTAGTCCGT |

| | | | | | | |
|---|---|---|---|---|---|---|
| ex3_4030547_x104 | CM000668.2/27777885-27777956 | 23 | ###### | 46.1 | 104 | AGCAGAGTGGCGCAGCGGAAGCGTGCTGGGCCCATAACCCAGAGGTCGATGGATCTAAACCATCCTCTGCTA |
| ex3_4084087_x95 | AC008443.10/9027-8955 | 32 | ###### | 63.9 | 95 | GUUUCCGUAGUGUAGUGGUCAUCACGUUCGCCUAACACGCGAAAGGUCCCCGGUUCGAAACCGGGCGGAAACA |
| ex3_4121228_x90 | AF381996.2/4265-4333 | 26 | ###### | 52 | 90 | AGAAAUAUGUCUGAUAAAAGAGUUACUUUGAUAGAGUAAAUAAUAGGAGCUUAAACCCCCUUAUUUCUA |
| ex3_4147591_x86 | CM000663.2/161462447-161462376 | 29 | ###### | 58 | 86 | GCGTTGGTGGTATAGTGGTGAGCATAGCTGCCTTCCAAGCAGTTGACCCGGGTTCGATTCCCGGCCAACGCA |
| ex3_4202547_x78 | AF347005.1/12268-12338 | 33 | ###### | 65.9 | 78 | ACUUUUAAAGGAUAACAGCUAUCCAUUGGUCUUAGGCCCCAAAAAUUUUGGUGCAACUCCAAAUAAAAGUA |
| ex3_4252029_x72 | CM000669.2/139340700-139340772 | 22 | ###### | 36.2 | 72 | GCCCCAGTGGCCTAATGGATAAGGCATTGGCCTCCTAAGCCAGGGATTGTGGGTTCGAGTCCCATCTGGGGTG |
| ex3_4290368_x67 | AC008670.6/83597-83665 | 17 | ###### | 34.2 | 67 | GUAAAUAUAGUUUAACCAAAACAUCAGAUUGUGAAUCUGACAACAGAGGCUCACGACCCCUUAUUUACC |
| ex3_4303221_x66 | CM000663.2/161440242-161440171 | 21 | ###### | 42.1 | 66 | GCGTTGGTGGTATAGTGGTGAGCATAGTTGCCTTCCAAGCAGTTGACCCGGGCTCGATTCCCGCCCAACGCA |
| ex3_4304211_x66 | AF347015.1/5827-5762 | 18 | ###### | 36.2 | 66 | AGCUCCGAGGUGAUUUUCAUAUUGAAUUGCAAAUUCGAAGAAGCAGCUUCAAACCUGCCGGGGCUU |
| ex3_4315094_x65 | CM000667.2/181206868-181206939 | 32 | ###### | 63.9 | 65 | GGGGATGTAGCTCAGTGGTAGAGCGCATGCTTTGCATGTATGAGGCCCCGGGTTCGATCCCCGGCATCTCCA |
| ex3_43 | ENST000 | 27 | ###### | 54 | 63 | GTTAAGATGGCAGAGCCCGGTAATCGCATAAAACTTAAAACTTTACAGTCA |

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|---|---|---|---|---|---|---|
| 27414_x63 | 00386347.1 | | | | | GAGGTTCAA |
| ex3_4337728_x62 | CM000678.2/87384094-87384022 | 21 | ###### | 42.1 | 62 | GCCTCGTTAGCGCAGTAGGCAGCGCGTCAGTCTCATAATCTGAAGGTCGTGAGTTCGAGCCTCACACGGGGCA |
| ex3_4350892_x60 | AF346999.1/4402-4331 | 32 | ###### | 63.9 | 60 | UAGGAUGGGGUGUGAUAGGUGGCACGGAGAAUUUUGGAUUCUCAGGGAUGGGUUCGAUUCUCAUAGUCCUAG |
| ex3_4355872_x60 | AC018638.5/4694-4623 | 20 | ###### | 40.1 | 60 | GGCUCGUUGGUCUAGGGGUAUGAUUCUCGCUUAGGGUGCGAGAGGUCCCGGGUUCAAAUCCCGGACGAGCCC |
| ex3_4362149_x59 | ENST00000387314.1 | 20 | ###### | 40.1 | 59 | GTTTATGTAGCTTACCTCCTCAAAGCAATACACTGAAAATGTTTAGACGGGCTCACATCA |
| ex3_4364627_x59 | CM000676.2/20683273-20683361 | 15 | 0.0005 | 30.2 | 59 | CCTTCGATAGCTCAGCTGGTAGAGCGGAGGACTGTAGTACTTAATGTGTGGTCATCCTTAGGTCGCTGGTTCGATTCCGGCTCGAAGGA |
| ex3_4382127_x57 | CM000669.2/133497812-133497745 | 14 | 0.003 | 28.2 | 57 | TCCTCATTAGTATAGTGATATCCCTGCCTGTCACGCGGGAGACCAGGGTTCGATTCCCAGACAAGGAG |
| ex3_4399368_x55 | CM000681.2/4724070-4724141 | 29 | ###### | 58 | 55 | GCGTTGGTGGTATAGTGGTTAGCATAGCTGCCTTCCAAGCAGTTGACCCGGGTTCGATTCCCGGCCAACGCA |
| ex3_4408352_x54 | CM000663.2/93847573-93847657 | 34 | ###### | 67.9 | 54 | GGCTCCGTGGCGCAATGGATAGCGCATTGGACTTCTAGAGGCTGAAGGCATTCAAAGGTTCCGGGTTCGAGTCCCGGCGGAGTCG |
| ex3_4417119_x53 | ENST00000387342.1 | 23 | ###### | 46.1 | 53 | CAGAGTGTAGCTTAACACAAAGCACCCAACTTACACTTAGGAGATTTCAACTTAACTTGA |
| ex3_4445071_x51 | AC005783.1/27398-27326 | 32 | ###### | 63.9 | 51 | GUUUCCGUAGUGUAGCGGUUAUCACAUUCGCCUCACACGCGAAAGGUCCCCGGUUCGAUCCCGGGCGGAAACA |
| ex3_4516301_ | AC008443.10/8240 | 20 | ###### | 40.1 | 44 | GGUAGCGUGGCCGAGCGGUCUAAGGCGCUGGAUUAAGGCUCCAGUCUCUUCGGGGGCGUGGGUUCGAAUCCCACCGCUGCCA |

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| x44 | -8321 |  |  |  |  |  |
| ex3_4530312_x42 | GL000252.2/82908-82837 | 20 | ###### | 40.1 | 42 | GGGGGTGTAGCTCAGTGGTAGAGCGCATGCTTTGCATGTATGAGGCCTCGGGTTCGATCCCCGACACCTCCA |
| ex3_4533630_x42 | AF347015.1/5892-5827 | 25 | ###### | 50.1 | 42 | GGUAAAAUGGCUGAGUGAAGCAUUGGACUGUAAAUCUAAAGACAGGGGUUAGGCCUCUUUUUACCA |
| ex3_4538502_x42 | ENST00000387392.1 | 30 | ###### | 60 | 42 | AAGGGCTTAGCTTAATTAAAGTGGCTGATTTGCGTTCAGTTGATGCAGAGTGGGGTTTTG |
| ex3_4553403_x40 | CM000674.2/124939966-124940037 | 35 | ###### | 69.9 | 40 | GGGGATGTAGCTCAGTGGTAGAGCGCATGCTTTGCACGTATGAGGCCCCGGGTTCAATCCCCGGCATCTCCA |
| ex3_4609993_x36 | CM000679.2/68019969-68019897 | 20 | ###### | 40.1 | 36 | GACCCAGTGGCCTAATGGATAAGGCATCAGCCTCCGGAGCTGGGGATTGTGGGTTCGAGTCCCATCTGGGTCG |
| ex3_4629869_x34 | CM000679.2/8139525-8139452 | 35 | ###### | 69.9 | 34 | GGCGCCGTGGCTTAGCTGGTTAAAGCGCCTGTCTAGTAAACAGGAGATCCTGGGTTCGAATCCCAGCGGTGCCT |
| ex3_4631909_x34 | ENST00000387365.1 | 33 | ###### | 65.9 | 34 | AGAAATATGTCTGATAAAAGAGTTACTTTGATAGAGTAAATAATAGGAGCTTAAACCCCC |
| ex3_4641141_x33 | AF382013.1/10403-10467 | 37 | ###### | 73.8 | 33 | UGGUAUAUAGUUUAAACAAAACGAAUGAUUUCGACUCAUUAAAUUAUGAUAAUCAUAUUUACCAA |
| ex3_4648071_x33 | X93334.1/6942-7009 | 19 | ###### | 38.2 | 33 | AAGGUAUUAGAAAAACCAUUUCAUAACUUUGUCAAAGUUAAAUUAUAGGCUAAAUCCUAUAUAUCUUA |
| ex3_4653038_x32 | CM000679.2/75033906-75033978 | 20 | ###### | 40.1 | 32 | GCCCCAGTGGCCTAATGGATAAGGCACTGGCCTCCTAAGCCAGGGATTGTGGGTTCGAGTCCCACCTGGGGTA |
| ex3_4665465_x31 | ENST00000387372.1 | 27 | ###### | 54 | 31 | TAGGATGGGGTGTGATAGGTGGCACGGAGAATTTTGGATTCTCAGGGATGGGTTCGATTC |

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| ex3_4671231_x31 | AC067849.6/4771-4840 | 18 | ###### | 36.2 | 31 | CACUGUAAAGCUAACUUAGCAUUAACCUUUUAAGUUAAAGAUUAAGAGAACCAACACCUCUUUACAGUGA |
| ex3_4671882_x31 | CM000679.2/8222904-8222833 | 21 | ###### | 42.1 | 31 | GGCTCGTTGGTCTAGGGGTATGATTCTCGCTTCGGGTGCGAGAGGTCCCGGGTTCAAATCCCGGACGAGCCC |
| ex3_4687323_x30 | CM000674.2/98503503-98503574 | 35 | ###### | 69.9 | 30 | TCCTCGTTAGTATAGTGGTTAGTATCCCCGCCTGTCACGCGGGAGACCGGGGTTCAATTCCCCGACGGGGAG |
| ex3_4701904_x29 | AC005329.1/7043-6971 | 36 | ###### | 71.9 | 29 | GCCGAAAUAGCUCAGUUGGGAGAGCGUUAGACUGAAGAUCUAAAGGUCCCUGGUUCGAUCCCGGGUUUCGGCA |
| ex3_4706302_x28 | KV880768.1/909247-909328 | 32 | ###### | 63.9 | 28 | GGTAGCGTGGCCGAGTGGTCTAAGGCGCTGGATTTAGGCTCCAGTCATTTCGATGGCGTGGGTTCGAATCCCACCGCTGCCA |
| ex3_4706834_x28 | CM000679.2/39153805-39153734 | 26 | ###### | 52 | 28 | GGGGGTATAGCTCAGTGGTAGAGCATTTGACTGCAGATCAAGAGGTCCCCGGTTCAAATCCGGGTGCCCCCT |
| ex3_4736001_x26 | GL000256.2/173001-172930 | 21 | ###### | 42.1 | 26 | GGGGGTGTAGCTCAGTGGTAGAGCGCGTGCTTAGCATGCACGAGGCCCCGGGTTCAATCCCCGGCACCTCCA |
| ex3_4738159_x26 | CM000673.2/66348120-66348201 | 22 | ###### | 44.1 | 26 | GACGAGGTGGCCGAGTGGTTAAGGCGATGGACTGCTAATCCATTGTGCTTTGCACGCGTGGGTTCGAATCCCATCCTCGTCG |
| ex3_4741773_x26 | ENST00000387439.1 | 22 | ###### | 44.1 | 26 | TGGTATATAGTTTAAACAAAACGAATGATTTCGACTCATTAAATTATGATAATCATATTT |
| ex3_4762471_x25 | CM000663.2/16546009-16545939 | 35 | ###### | 69.9 | 25 | GCATTGGTGGTTCAGTGGTAGAATTCTCGCCTCCCACGCGGGAGACCCGGGTTCAATTCCCGGCCAATGCA |
| ex3_4780985_x23 | CM000679.2/8221548-8221619 | 29 | ###### | 58 | 23 | GCGTTGGTGGTATAGTGGTAAGCATAGCTGCCTTCCAAGCAGTTGACCCGGGTTCGATTCCCGGCCAACGCA |

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| ex3_4805993_x22 | CM000668.2/27547823-27547752 | 21 | ###### | 42.1 | 22 | GGTTCCATGGTGTAATGGTTAGCACTCTGGACTCTGAATCCAGCGATCCGAGTTCAAGTCTCGGTGGAACCT |
| ex3_4809315_x22 | CM000668.2/26575570-26575659 | 31 | ###### | 61.9 | 22 | CTTTCGATAGCTCAGTTGGTAGAGCGGAGGACTGTAGGTTCATTAAACTAAGGCATCCTTAGGTCGCTGGTTCGAATCCGGCTCGAAGGA |
| ex3_4815269_x21 | CM000676.2/22929701-22929773 | 35 | ###### | 69.9 | 21 | GGGCCAGTGGCGCAATGGATAACGCGTCTGACTACGGATCAGAAGATTCCAGGTTCGACTCCTGGCTGGCTCG |
| ex3_4832258_x21 | CM000668.2/57800211-57800284 | 20 | ###### | 40.1 | 21 | GGCCGGTTAGCTCAGTCGGTTAGAGCGTGGTGCTAATAACGCCAAGGTCGCGGGTTCGATCCCCGTGCCGGTCA |
| ex3_4837996_x20 | AL352978.6/119697-119770 | 17 | ###### | 34.2 | 20 | GGCCGGUUAGCUCAGUUGGUUAGAGCGUGGUGCUAAUAACGCCAAGGUCGCGGGUUCGAUCCCCGUACGGGCCA |
| ex3_4869881_x18 | CM000664.2/45710374-45710302 | 14 | 0.003 | 28.2 | 18 | GGCTGTGTACCTCAGTGGGCAAGGGTATGGACTTTGAAGCCAGACTATTTGGGTTCAAATCCCAGCTTGGCCT |
| ex3_4875173_x18 | AC108081.2/59868-59786 | 20 | ###### | 40.1 | 18 | GUCAGGAUGGCCGAGCGGUCUAAGGCGCUGCGUUCAGGUCGCAGUCUCCCCUGGAGGCGUGGGUUCGAAUCCCACUUCUGACA |
| ex3_4877873_x18 | J01415.2/7514-7446 | 21 | ###### | 42.1 | 18 | GAAAAAGTCATGGAGGCCATGGGGTTGGCTTGAAACCAGCTTTGGGGGGTTCGATTCCTTCCTTTTTTG |
| ex3_4881275_x18 | CM000674.2/98504252-98504323 | 19 | ###### | 38.2 | 18 | GACCTCGTGGCGCAACGGTAGCGCGTCTGACTCCAGATCAGAAGGCTGCGTGTTCGAATCACGTCGGGGTCA |
| ex3_4889666_x17 | J01415.2/3230-3304 | 15 | 0.0005 | 30.2 | 17 | GTTAAGATGGCAGAGCCCGGTAATCGCATAAAACTTAAAACTTTACAGTCAGAGGTTCAATTCCTCTTCTTAACA |
| ex3_4890737_x17 | CM000681.2/39412260-39412168 | 20 | ###### | 40.1 | 17 | GCTCCAGTGGCGCAATCGGTTAGCGCGCGGTACTTATATGACAGTGCGAGCGGAGCAATGCCGAGGTTGTGAGTTCGATCCTCACCTGGAGCA |

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|---|---|---|---|---|---|---|
| ex3_4894868_x17 | CM000668.2/26705377-26705449 | 14 | 0.006 | 28.2 | 17 | GGGGAATTAGCTCAAGCGGTAGAGCGCTTGCTTAGCATGCAAGAGGTAGTGGGATCGATGCCCACATTCTCCA |
| ex3_4901124_x17 | CM000677.2/89335073-89335145 | 22 | ###### | 44.1 | 17 | GGCCGCGTGGCCTAATGGATAAGGCGTCTGACTTCGGATCAGAAGATTGCAGGTTCGAGTCCTGCCGCGGTCG |
| ex3_4906003_x17 | ENST00000387419.1 | 20 | ###### | 40.1 | 17 | AAGGTATTAGAAAAACCATTTCATAACTTTGTCAAAGTTAAATTATAGGCTAAATCCTAT |
| ex3_4907890_x17 | CM000676.2/20657557-20657464 | 13 | 0.009 | 26.3 | 17 | CCTTCGATAGCTCAGCTGGTAGAGCGGAGGACTGTAGATTGTATAGACATTTGCGGACATCCTTAGGTCGCTGGTTCGATTCCAGCTCGAAGGA |
| ex3_4910350_x16 | GL000251.2/138118-138045 | 35 | ###### | 69.9 | 16 | GGCTCTGTGGCTTAGTTGGCTAAAGCGCCTGTCTCGTAAACAGGAGATCCTGGGTTCGAATCCCAGCGGGGCCT |
| ex3_4922190_x16 | AL132988.4/95773-95841 | 28 | ###### | 56 | 16 | AAGGGCUUAGCUUAAUUAAAGUGGCUGAUUUGCGUUCAGUUGAUGCAGAGUGGGGUUUUGCAGUCCUUA |
| ex3_4930333_x15 | CM000668.2/26553503-26553574 | 31 | ###### | 61.9 | 15 | GGGGATGTAGCTCAGTGGTAGAGCGCATGCTTCGCATGTATGAGGTCCCGGGTTCGATCCCCGGCATCTCCA |
| ex3_4933378_x15 | CM000668.2/26577104-26577192 | 13 | 0.01 | 26.3 | 15 | CCTTCGATAGCTCAGTTGGTAGAGCGGAGGACTGTAGGCTCATTAAGCAAGGTATCCTTAGGTCGCTGGTTCGAATCCGGCTCGGAGGA |
| ex3_4934413_x15 | CM000668.2/27902564-27902493 | 20 | ###### | 40.1 | 15 | AGCAGAGTGGCGCAGCGGAAGCGTGCTGGGCCCATAACCCAGAGGTCGATGGATCGAAACCATCCTCTGCTA |
| ex3_4936363_x15 | CM000665.2/45689071-45688999 | 18 | ###### | 36.2 | 15 | GGGCCAGTGGCGCAATGGATAACGCGTCTGACTACGGATCAGAAGATTCTAGGTTCGACTCCTGGCTGGCTCG |
| ex3_4950328_x15 | CM000668.2/27545689- | 41 | ###### | 81.8 | 15 | GTAGTCGTGGCCGAGTGGTTAAGGCGATGGACTTGAAATCCATTGGGGTTTCCCCGCGCAGGTTCGAATCCTGCCGACTACG |

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|  | 27545770 |  |  |  |  |  |
| ex3_4952113_x14 | AC024995.8/165717-165798 | 24 | ###### | 48.1 | 14 | GUAGUCGUGGCCGAGUGGUUAAGGCGAUGGACUAGAAAUCCAUUGGGGUCUCCCCGCGCAGGUUCGAAUCCUGCCGACUACG |
| ex3_4958749_x14 | CM000679.2/19508181-19508252 | 17 | ###### | 34.2 | 14 | GACCTCGTGGCGCAATGGTAGCGCGTCTGACTCCAGATCAGAAGGTTGCGTGTTCAAGTCACGTCGGGGTCA |
| ex3_4967443_x14 | CM000672.2/69592941-69593006 | 13 | 0.01 | 26.3 | 14 | GGTAAAATGGCTGAGCAAGCATTGGACTGTAAATCTAAAGACAGATGTTGAGCCATCTTTTTAGCA |
| ex3_4972539_x14 | ENST00000387400.1 | 36 | ###### | 63.9 | 14 | TAGATTGAAGCCAGTTGATTAGGGTGCTTAGCTGTTAACTAAGTGTTTGTGGGTTTAAGT |
| ex3_4989358_x13 | AF134583.1/1816-1744 | 19 | ###### | 38.2 | 13 | UAGAUUGAAGCCAGUUGAUUAGGGUGCUUAGCUGUUAACUAAGUGUUUGUGGGUUUAAGUCCCAUUGGUCUAG |
| ex3_4999105_x12 | CM000673.2/76235896-76235825 | 35 | ###### | 69.9 | 12 | GGCTCGTTGGTCTAGGGGTATGATTCTCGGTTTGGGTCCGAGAGGTCCCGGGTTCAAATCCCGGACGAGCCC |
| ex3_5001313_x12 | CM000677.2/40593906-40593825 | 19 | ###### | 38.2 | 12 | GACGAGGTGGCCGAGTGGTTAAGGCGATGGACTGCTAATCCATTGTGCTCTGCACGCGTGGGTTCGAATCCCATCCTCGTCG |
| ex3_5001985_x12 | AF134583.1/1599-1666 | 30 | ###### | 60 | 12 | AGAAAUUUAGGUUAAAUACAGACCAAGAGCCUUCAAAGCCCUCAGUAAGUUGCAAUACUUAAUUUCUG |
| ex3_5021113_x12 | CM000668.2/28941053-28941157 | 23 | ###### | 46.1 | 12 | GTCAGGATGGCCGAGTGGTCTAAGGCGCCAGACTCAAGCTTGGCTTCCTCGTGTTGAGGATTCTGGTCTCCAATGGAGGCGTGGGTTCGAATCCCACTTCTGACA |
| ex3_5030622_x11 | CM000670.2/67585596-67585528 | 13 | 0.008 | 26.3 | 11 | GTAGCTGTAGTTTAAGCAAAACATTAGATTGTGGATCTAACAATAGAAGCCTTCAATTTCTTATCTACC |

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|---|---|---|---|---|---|---|
| ex3_5034252_x11 | CM000677.2/95784645-95784717 | 14 | 0.003 | 28.2 | 11 | GCACTGCACAGTCAGTCAGTAGAGCATGGGACTCTTAATCCCAGGGTCGTGGGTTCAAGCCCCACGTTGGGCG |
| ex3_5034934_x11 | CM000666.2/5488322-5488403 | 14 | 0.003 | 28.2 | 11 | GATTTTATGGTGTAATGGTGAGCACTCTGGACTTGGAATCCAGAATTAACAAACAGAACATCCTGCAATTTTATTAAGAGCA |
| ex3_5037431_x11 | GL000252.2/8616-8544 | 35 | ###### | 69.9 | 11 | GGCCGCGTGGCCTAATGGATAAGGCGTCTGATTCCGGATCAGAAGATTGAGGGTTCGAGTCCCTTCGTGGTCG |
| ex3_5041259_x11 | AL163195.5/3702-3774 | 21 | ###### | 42.1 | 11 | GGCUCCAUAGCUCAGGGGUUAGAGCACUGGUCUUGUAAACCAGGGGUCGCGAGUUCAAAUCUCGCUGGGGCCU |
| ex3_5044086_x11 | GL000251.2/216699-216772 | 22 | ###### | 44.1 | 11 | GGCTCCGTAGCTTAGTTGGTTAAAGCGCCTGTCTAGTAAACAGGAGATCCTGGGTTCGACTCCCAGCGGGGCCT |
| ex3_5044691_x11 | CM000668.2/26571936-26571864 | 21 | ###### | 42.1 | 11 | GGGGAATTAGCTCAAATGGTAGAGCGCTCGCTTAGCATGCGAGAGGTAGCGGGATCGATGCCCGCATTCTCCA |
| ex3_5046165_x11 | CM000679.2/8120925-8121012 | 34 | ###### | 67.9 | 11 | GGCTCTGTGGCGCAATGGATAGCGCATTGGACTTCTAGTGACGAATAGAGCAATTCAAAGGTTGTGGGTTCGAATCCCACCAGAGTCG |
| ex3_5046429_x11 | CM000668.2/144216547-144216629 | 23 | ###### | 46.1 | 11 | ACCAGGATGGCCGAGTGGTTAAGGCGTTGGACTTAAGATCCAATGGACATATGTCCGCGTGGGTTCGAACCCCACTCCTGGTA |
| ex3_5046935_x11 | CM000668.2/27562184-27562270 | 25 | ###### | 50.1 | 11 | GGCTCTGTGGCGCAATGGATAGCGCATTGGACTTCTAGCCTAAATCAAGAGATTCAAAGGTTGCGGGTTCGAGTCCCTCCAGAGTCG |
| ex3_5054868_x10 | CM000664.2/156400769-156400840 | 31 | ###### | 61.9 | 10 | GGGGATGTAGCTCAGTGGTAGAGCGCGCGCTTCGCATGTGTGAGGTCCCGGGTTCAATCCCCGGCATCTCCA |

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|---|---|---|---|---|---|---|
| ex3_5056248_x10 | CM000663.2/248873855-248873960 | 39 | ###### | 77.8 | 10 | GTCAGGATGGCCGAGTGGTCTAAGGCGCCAGACTCAAGGTAAGCACCTTGCCTGCGGGCTTTCTGGTCTCCGGATGGAGGCGTGGGTTCGAATCCCACTTCTGACA |
| ex3_5064778_x10 | CM000664.2/203364478-203364408 | 25 | ###### | 50.1 | 10 | GCAATGGTGGTTCAGTGGTAGAATTCTCGCCTTTCACACAGGAGACCCGGGTTCAATTCCTGACCCATGTA |
| ex3_5066998_x10 | CM000668.2/26319173-26319102 | 35 | ###### | 69.9 | 10 | GACCTCGTGGCGCAACGGTAGCGCGTCTGACTCCAGATCAGAAGGTTGCGTGTTCAAATCACGTCGGGGTCA |
| ex3_5067238_x10 | CM000678.2/3188094-3188165 | 24 | ###### | 48.1 | 10 | GGCTCGTTGGTCTAGGGGTATGATTCTCGCTTTGGGTGCGAGAGGTCCCGGGTTCAAATCCCGGACGAGCCC |
| ex3_5072148_x10 | CM000668.2/26299677-26299749 | 25 | ###### | 50.1 | 10 | GACCACGTGGCCTAATGGATAAGGCGTCTGACTTCGGATCAGAAGATTGAGGGTTCGAATCCCTTCGTGGTTA |
| ex3_5074328_x10 | CM000670.2/123157302-123157230 | 35 | ###### | 69.9 | 10 | GCCTCGTTAGCGCAGTAGGTAGCGCGTCAGTCTCATAATCTGAAGGTCGTGAGTTCGATCCTCACACGGGGCA |
| ex3_5075628_x10 | ENST00000387382.1 | 22 | ###### | 44.1 | 10 | AGAAATTTAGGTTAAATACAGACCAAGAGCCTTCAAAGCCCTCAGTAAGTTGCAATACTT |
| ex3_5079222_x9 | CM000667.2/168389710-168389639 | 14 | 0.003 | 28.2 | 9 | GCCCAACTGGTTCAGTCGGTAGAGAATGAGACTCTTAATCTCAGGTCATAGATTCATGTCACATGTTGGGTG |
| ex3_5088933_x9 | CM000668.2/28807905-28807833 | 20 | 0.0001 | 32.2 | 9 | GCCGAGATAGCTCAGTTGGGAGAGCGTTAGACTGAAGATCTAAAGGTCCCTGGTTCAATCCCGGGTTTCGGCA |
| ex3_50 | ENST000 | 22 | ###### | 44.1 | 9 | ACTCTTTTAGTATAAATAGTACCGTTAACTTCCAATTAACTAGTTTTGACAAC |

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|---|---|---|---|---|---|---|
| 95665_x9 | 00387429.1 | | | | | ATTCAAA |
| ex3_5097987_x9 | CM000668.2/145182723-145182794 | 29 | ###### | 58 | 9 | GGTCCCATGGTGTAATGGTTAGCACTCTGGGCTTTGAATCCAGCAATCCGAGTTCGAATCTTGGTGGGACCT |
| ex3_5125944_x8 | GL000251.2/79253-79324 | 22 | ###### | 44.1 | 8 | GGTCCCATGGTGTAATGGTTAGCACTCTGGACTTTGAATCCAGCAATCCGAGTTCGAATCTCGGTGGGACCT |
| ex3_5127080_x8 | CM000681.2/56922350-56922420 | 25 | ###### | 50.1 | 8 | ACTTTTAAAGGATTAGAGTTAACCATTGGTCTAAGGAACCAAAAACACTGGTGCAACTCCAAATAAAAGTA |
| ex3_5129832_x8 | CM000665.2/106894340-106894273 | 13 | 0.008 | 26.3 | 8 | GTAGTTATAGTTTAATTAAACATTAGATTGTGGATCTAATAATAGAAGTCTACAGCTTCTTACCTACC |
| ex3_5133304_x8 | ENST00000387416.2 | 23 | ###### | 46.1 | 8 | GAAAAAGTCATGGAGGCCATGGGGTTGGCTTGAAACCAGCTTTGGGGGGTTCGATTCCTT |
| ex3_5137584_x8 | CM000678.2/73478389-73478317 | 18 | ###### | 36.2 | 8 | GCCTGGATAGCTCAGTTGGTAGAGCATCAGACTTTTAATCTGAGGGTCCAGGGTTCAAGTCCCTGTTCAGGCA |
| ex3_5142475_x7 | CM000674.2/26572619-26572687 | 13 | 0.008 | 26.3 | 7 | AAGGAGTTAGCTCAATTAAAGTGATTGATTTGCATTCAGTTGATGTAAGATAAGATCTTGCAGTCCTTA |
| ex3_5154179_x7 | ENST00000387460.2 | 22 | ###### | 44.1 | 7 | GTCCTTGTAGTATAAACTAATACACCAGTCTTGTAAACCGGAGATGAAAACCTTTTTCCA |
| ex3_5162656_x7 | CM000670.2/66114189-66114261 | 23 | ###### | 46.1 | 7 | GGGGGATTAGCTCAAATGGTAGAGCGCTCGCTTAGCATGCGAGAGGTAGCGGGATCGATGCCCGCATCCTCCA |
| ex3_5176537_x7 | ENST00000387405.1 | 28 | ###### | 56 | 7 | AGCTCCGAGGTGATTTTCATATTGAATTGCAAATTCGAAGAAGCAGCTTCAAACCTGCCG |

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|---|---|---|---|---|---|---|
| ex3_5176670_x7 | CM000671.2/128340166-128340076 | 34 | ###### | 67.9 | 7 | GGCTCTGTGGCGCAATGGATAGCGCATTGGACTTCTAGCTGAGCCTAGTGTGGTCATTCAAAGGTTGTGGGTTCGAGTCCCACCAGAGTCG |
| ex3_5188643_x6 | CM000663.2/121016915-121016845 | 28 | ###### | 56 | 6 | GCACTGGTGGTTCAGTGGTAGAATTCTCGCCTCCCACGCGGGAGACCCGGGTTCAATTCCCGGTCAAGATA |
| ex3_5204327_x6 | CM000679.2/40117373-40117300 | 14 | 0.002 | 28.2 | 6 | GACCGTGTGGCCTTAATGGATAAGGTGTCTGACTTCAGATCAGAAGATTGAGGGTTTGAGTCCCTTTGTGGTCA |
| ex3_5206547_x6 | CM000672.2/6211058-6210975 | 17 | ###### | 34.2 | 6 | GGGGATATAGCTCAGGGGTAGAGCATTTGACTGCAGAACAAGAGAGGGGCGCACCGGGCACGGTGGCTCACGCCTGTAATCCCA |
| ex3_5213603_x6 | CM000678.2/14285893-14285964 | 33 | ###### | 65.9 | 6 | GGCGCGGTGGCCAAGTGGTAAGGCGTCGGTCTCGTAAACCGAAGATCACGGGTTCGAACCCCGTCCGTGCCT |
| ex3_5215241_x6 | GL000256.2/253971-254043 | 30 | ###### | 60 | 6 | GCCTCCTTAGCGCAGTAGGCAGCGCGTCAGTCTCATAATCTGAAGGTCCTGAGTTCGAACCTCAGAGGGGGCA |
| ex3_5216699_x6 | CM000668.2/27791427-27791356 | 24 | ###### | 48.1 | 6 | GGCCCCATGGTGTAATGGTCAGCACTCTGGACTCTGAATCCAGCGATCCGAGTTCAAATCTCGGTGGGACCC |
| ex3_5220051_x5 | CM000676.2/20613862-20613790 | 34 | ###### | 67.9 | 5 | GGCTCCATAGCTCAGGGGTTAGAGCGCTGGTCTTGTAAACCAGGGGTCGCGAGTTCAATTCTCGCTGGGGCCT |
| ex3_5247681_x5 | CM000678.2/10721565-10721495 | 17 | ###### | 34.2 | 5 | ACTTTTAAAGGATAAGAGTTATCCATTGGTCTCAGGAACCAAAAACATCGGTGCAACTCCAAATAAAAGTA |
| ex3_5248706_x5 | CM000668.2/26322818- | 35 | ###### | 69.9 | 5 | GACCACGTGGCCTAATGGATAAGGCGTCTGACTTCGGATCAGAAGATTGAGGGTTCGAATCCCTCCGTGGTTA |

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| | 26322890 | | | | | |
| ex3_5251026_x5 | CM000668.2/27618356-27618429 | 17 | 0.01 | 26.3 | 5 | GGCCCTGTAGCTCAGCGGTTGGAGCGCTGGTCTCGTAAACCTAGGGGTCGTGAGTTCAAATCTCACCAGGGCCT |
| ex3_5254701_x5 | CM000664.2/130273728-130273656 | 13 | 0.009 | 26.3 | 5 | TAGATTGAAGCCAGTTGATTAGGGTGTTTATCTGTTAATTAAATGTTCGTGGGTTTAAGTCCCATCAATCTAG |
| ex3_5257326_x5 | CM000668.2/27273960-27274033 | 19 | 0.0008 | 30.2 | 5 | GGCTGGTTAGTTCAGTTGGTTAGAGCGTGGTGCTAATAACGCCAAGGTCGTGGGTTCGATCCCCATATCGGCCA |
| ex3_5260746_x5 | GL000254.2/1093-1022 | 26 | ###### | 52 | 5 | GGGGGTGTAGCTCAGTGGTAGAGCGTATGCTTAACATTCATGAGGCTCTGGGTTCGATCCCCAGCACTTCCA |
| ex3_5266835_x4 | CM000663.2/148328812-148328883 | 32 | ###### | 63.9 | 4 | GGTTCCATGGTGTAATGGTAAGCACTCTGGACTCTGAATCCAGCCATCTGAGTTCGAGTCTCTGTGGAACCT |
| ex3_5270211_x4 | CM000668.2/27335062-27334990 | 26 | ###### | 52 | 4 | GCCTGGGTAGCTCAGTCGGTAGAGCATCAGACTTTTAATCTGAGGGTCCAGGGTTCAAGTCCCTGTCCAGGCG |
| ex3_5274403_x4 | CM000668.2/27591886-27591814 | 29 | ###### | 58 | 4 | GCCTGGATAGCTCAGTCGGTAGAGCATCAGACTTTTAATCTGAGGGTCCAGGGTTCAAGTCCCTGTTCAGGCG |
| ex3_5275459_x4 | CM000679.2/38869363-38869292 | 20 | 0.0001 | 32.2 | 4 | GGGGGTATAGCTCAGTGGTAGAGCATTTGACTGCAGATCAAGAGGTCCCTGGTTCAAATCCGGGTGCCCCCT |
| ex3_5281515_x4 | CM000673.2/59551294-59551379 | 16 | 0.0001 | 32.2 | 4 | GGCTCTGTGGCGCAATGGATAGCGCATTGGACTTCTAGATAGTTAGAGAAATTCAAAGGTTGTGGGTTCGAGTCCCACCAGAGTCG |

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|---|---|---|---|---|---|---|
| ex3_5282383_x4 | CM000674.2/97096986-97096913 | 14 | 0.004 | 28.2 | 4 | GGCAATGTAGCATTGTGGCTAAGTGCACAGGCTTTGGAAACTGGCAGGCCTGGGTTCAAATCCCAGCTTATTCA |
| ex3_5282655_x4 | CM000668.2/28474625-28474552 | 26 | ###### | 52 | 4 | GGCTCTATGGCTTAGTTGGTTAAAGCGCCTGTCTTGTAAACAGGAGATCCTGGGTTCGAATCCCAGTAGAGCCT |
| ex3_5282891_x4 | GL000255.2/161910-161805 | 21 | ###### | 42.1 | 4 | GTCAGGATGGCCGAGTGGTCTAAGGCGCCAGACTCAAGCTAAGCTTCCTCCGCGGTGGGGATTCTGGTCTCCAATGGAGGCGTGGGTTCGAATCCCACTTCTGACA |
| ex3_5286767_x4 | CM000685.2/102010285-102010355 | 13 | 0.009 | 26.3 | 4 | GTTAGTGTAGCTTAATATGGTAAAGCAAGGCACTGAAAGTGCGTAGATGAGTTCATGTAACTCCATAAACA |
| ex3_5291467_x4 | CM000671.2/5096408-5096340 | 13 | 0.008 | 26.3 | 4 | AAGGACTTAGCTTAATTAAAGTGGTTGATTTGCGTTCAACTGATGCAGAATAGAGTTTTGCAGTCCTTG |
| ex3_5294091_x4 | CM000679.2/31550074-31550145 | 32 | ###### | 63.9 | 4 | GGCGCGGTGGCCAAGTGGTAAGGCGTCGGTCTCGTAAACCGAAGATCGCGGGTTCGAACCCCGTCCGTGCCT |
| ex3_5305835_x4 | GL000254.2/61628-61557 | 21 | ###### | 42.1 | 4 | GGGGGTATAGCTCAGTGGTAGAGCGCGTGCTTAGCATGCACGAGGTCCTGGGTTCGATCCCCAGTACCTCCA |
| ex3_5312343_x4 | CM000668.2/27275284-27275211 | 35 | ###### | 69.9 | 4 | GGCTGGTTAGCTCAGTTGGTTAGAGCGTGGTGCTAATAACGCCAAGGTCGCGGGTTCGATCCCCGTACTGGCCA |
| ex3_5317963_x4 | CM000668.2/27297996-27298077 | 28 | ###### | 56 | 4 | GACGAGGTGGCCGAGTGGTTAAGGCGATGGACTGCTAATCCATTGTGCTCTGCACGCGTGGGTTCGAATCCCACCTTCGTCG |
| ex3_5319019_x4 | CM000663.2/159141684-159141611 | 23 | 0.0007 | 30.2 | 4 | GTCTCTGTGGCGCAATGGACGAGCGCGCTGGACTTCTAATCCAGAGGTTCCGGGTTCGAGTCCCGGCAGAGATG |

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| ex3_5319677_x3 | CM000663.2/16727285-16727355 | 21 | ###### | 42.1 | 3 | GCCTTGGTGGTGCAGTGGTAGAATTCTCGCCTCCCACGTGGGAGACCCGGGTTCAATTCCCGGCCAATGCA |
| ex3_5320757_x3 | CM000677.2/79744655-79744727 | 30 | ###### | 60 | 3 | GGGGGTATAGCTCAGTGGGTAGAGCATTTGACTGCAGATCAAGAGGTCCCCGGTTCAAATCCGGGTGCCCCCT |
| ex3_5323958_x3 | CM000679.2/19860862-19860932 | 18 | ###### | 36.2 | 3 | GCATTGGTGGTTCAATGGTAGAATTCTCGCCTCCCACGCAGGAGACCCAGGTTCGATTCCTGGCCAATGCA |
| ex3_5325896_x3 | CM000676.2/20681690-20681762 | 26 | ###### | 52 | 3 | GGCCCTATAGCTCAGGGGTTAGAGCACTGGTCTTGTAAACCAGGGGTCGCGAGTTCAAATCTCGCTGGGGCCT |
| ex3_5330303_x3 | CM000683.2/35891030-35891100 | 13 | 0.008 | 26.3 | 3 | GAGGATTTAGTTTAATTAAAATGTTTGATTTGCATTCAATTGATGTAAGATAGAGAGTGTTGCAGTCCTTA |
| ex3_5332814_x3 | CM000663.2/148020474-148020544 | 15 | 0.001 | 30.2 | 3 | GCGTTGGCAGTTCAGTGGTAGAATTCTCGCCTCCCACCCGGGAGACCTGGATTCCATTTCCGGCAAATGCA |
| ex3_5332886_x3 | CM000672.2/67764503-67764584 | 20 | 0.0001 | 32.2 | 3 | GCAGCGATGGCCGAGTGGTTAAGGCGTTGGACTTGAAATCCAATGGGGTCTCCCCGCGCAGGTTCGAACCCTGCTCGCTGCG |
| ex3_5334191_x3 | CM000669.2/64110400-64110468 | 13 | 0.008 | 26.3 | 3 | AAGGGCTTAGCTTAATTAAAGTGATTGATTTGCATTCAATTGATACAGAATAGAGTTTTTCAGTCCTTA |
| ex3_5335100_x3 | CM000663.2/148246758-148246831 | 15 | 0.0006 | 30.2 | 3 | GTCTCTGTGGCGCAATCGGTCAGAGCGTTCGGCTATTAACCGAACGGTGAGTAGTTCAAGACCACCCAGGGACG |
| ex3_5336708_ | GL000250.2/77722 | 20 | ###### | 40.1 | 3 | GGGGGTATAGCTCAGCGGTAGAGCGCGTGCTTAGCATGCACGAGGTCCTGGGTTCAATCCCCAATACCTCCA |

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|---|---|---|---|---|---|---|
| x3 | -77651 | | | | | |
| ex3_5338001_x3 | CM000679.2/60786232-60786302 | 26 | ###### | 36.2 | 3 | GCCCGGATAGTTCAGTTGGTAGAGCATCAGACTTAATCAGAGGGTCCAGGGTTCAAGTCCCTGTTTGGGTG |
| ex3_5339519_x3 | CM000663.2/222465005-222465077 | 14 | 0.005 | 28.2 | 3 | GGCTCCATAGCTCAGTGGTTAGAGCACTGGTCTTGTAAACCAGGGGTCGCGAGTTCGATCCTCGCTGGGGCCT |
| ex3_5340467_x3 | CM000673.2/109165312-109165393 | 13 | 0.01 | 26.3 | 3 | TGAGTTGTAGCTGAGTGGTTAAGGCAACGAGCTAGAAATTCGTTGGTTTCTCTCTGTGCAGGTTTGAATCCTGCTAATTATG |
| ex3_5342909_x3 | CM000663.2/149698551-149698478 | 17 | 0.009 | 26.3 | 3 | ATCTCCGTGGAGCAATTGGTTAGCGCGTTCGGCTGTTAACCGGAAAGTTGGTGGTTCGAGCCTACCCAGGGACG |
| ex3_5345954_x3 | CM000676.2/84172756-84172830 | 15 | 0.002 | 30.2 | 3 | GTTAAGATGACAGAGCCTGGCAATTGCGTAAAACTTAAAACTTTATAATCAGAGGTTCAACTTCTGCTCTTAACA |
| ex3_5346119_x3 | CM000671.2/78741498-78741570 | 13 | 0.009 | 26.3 | 3 | GAGATTGAGACCAGTTGATTAAGGTGTTTAGCTGTTAACTAAATTTTTGTGGGTTTGAATTCCATCAATCTAG |
| ex3_5349512_x3 | CM000664.2/218245826-218245918 | 14 | 0.004 | 28.2 | 3 | CCTTCAATAGTTCAGCTGGTAGAGCAGAGGACTATAGCTACTTCCTCAGTAGGAGACGTCCTTAGGTTGCTGGTTCGATTCCAGCTTGAAGGA |
| ex3_5350487_x3 | CM000665.2/132229171-132229100 | 32 | ###### | 63.9 | 3 | GGGGGTGTAGCTCAGTGGTAGAGCATTTGACTGCAGATCAAGAGGTCCCTGGTTCAAATCCAGGTGCCCCCT |

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| ex3_5351606_x3 | CM000685.2/24601905-24601837 | 21 | ###### | 42.1 | 3 | GTGGGTATAGCTCAGAGGTAGAGCATTCAACTGCAGATCGAAGTGGCTGTACCATTTTGCATTCCCACC |
| ex3_5351681_x3 | CM000663.2/148265179-148265108 | 40 | ###### | 79.8 | 3 | GGTTCCATGGTGTAATGGTAAGCACTCTGGACTCTGAATCCAGCGATCCGAGTTCGAGTCTCGGTGGAACCT |
| ex3_5354642_x3 | CM000673.2/103405997-103406069 | 14 | 0.004 | 28.2 | 3 | TAGATTGAAGCCAGTTGATTAGGATGTTTAGCTGTTAACTAAATTATCCTGGGTTTGAATTCCACCAATCTAG |
| ex3_5356982_x3 | CM000685.2/119603898-119603966 | 14 | 0.002 | 28.2 | 3 | GCAGCTGTGGCTCAGTGGAAAGAGCATCAGTCTGGGTATCAGAAGACCTAGGTCCTAGCCCCAGCTGTA |
| ex3_5362073_x3 | GL000251.2/124019-123948 | 19 | 0.002 | 30.2 | 3 | GTGGATGTAGTTTAGTGGTAGAACGCGCGCTTTGCATGTATGAGGTCCCGGTTTCGATCCCTGGCGTTTCCA |
| ex3_5362529_x3 | CM000672.2/5853783-5853711 | 14 | 0.005 | 28.2 | 3 | GGTTCCATAGTGTAGTGGTTATCACATCTGCTTTACACGCAGAAGGTCCTGGGTTCAAGCCCCAGTGGAACCA |
| ex3_5362805_x3 | CM000663.2/144419267-144419340 | 26 | ###### | 52 | 3 | GTCTCTGTGGCGCAATCGGTTAGCGCATTCGGCTGTTAACCGAAAGGTTGGTGGTTCGAGCCCACCCAGGGACG |
| ex3_5369090_x3 | CM000673.2/63489530-63489598 | 13 | 0.008 | 26.3 | 3 | ATTAAGGTAGTATAGTAGAGTAAAATACTTCGAAGCCAAAAGATCTAGGTTTGAATCCTAGCTTTCATG |
| ex3_5372444_x3 | CM000668.2/26594874-26594962 | 19 | ###### | 38.2 | 3 | CCTTCGATAGCTCAGCTGGTAGAGCGGAGGACTGTAGGGGTTTGAATGTGGTCATCCTTAGGTCGCTGGTTCGAATCCGGCTCGGAGGA |

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| ex3_5373299_x3 | CM000668.2/27672531-27672450 | 24 | ###### | 48.1 | 3 | GCTGTGATGGCCGAGTGGTTAAGGTGTTGGACTCGAAATCCAATGGGGGTTCCCCGCGCAGGTTCAAATCCTGCTCACAGCG |
| ex3_5374100_x3 | CM000670.2/133755832-133755767 | 15 | 0.0008 | 30.2 | 3 | GGTAAAATGACTGAATAAGCCTTAGACTGTAAATCTGAAGACAGAGGTCAAGGCCTCTTTTTACCA |
| ex3_5375492_x3 | CM000663.2/16889677-16889750 | 21 | ###### | 42.1 | 3 | GTCTCTGTGGCGCAATCGGTTAGCGCGTTCGGCTGTTAACCGAAAGATTGGTGGTTCGAGCCCACCCAGGGACG |
| ex3_5378639_x3 | CM000678.2/3157477-3157405 | 33 | ###### | 65.9 | 3 | GCCCGGCTAGCTCAGTCGGTAGAGCATGAGACCCTTAATCTCAGGGTCGTGGGTTCGAGCCCCACGTTGGGCG |
| ex3_5379581_x3 | CM000676.2/20633006-20633077 | 22 | ###### | 44.1 | 3 | GGCTCGTTGGTCTAGTGGTATGATTCTCGCTTTGGGTGCGAGAGGTCCCGGGTTCAAATCCCGGACGAGCCC |
| ex3_5379752_x3 | CM000674.2/69827047-69826978 | 13 | 0.008 | 26.3 | 3 | GAGGGTATAGCTCAGAGGTAGAGCACTGGACTGCAGATCAAGAATATCAGCTTCAGTTCAGCTGCCTTCA |
| ex3_5385773_x3 | GL000251.2/33067-32995 | 35 | ###### | 69.9 | 3 | GACCACGTGGCCTAATGGATAAGGCGTCTGACTTCGGATCAGAAGATTGAGGGTTCGAATCCCTTCGTGGTTG |
| ex3_5392844_x3 | CM000669.2/69333643-69333709 | 13 | 0.009 | 26.3 | 3 | GGTAAAATGGCTGAGCAAGCATTAGACTGTAAATCTGAAAACAGAGGTCAAAGGTCTCTTTTTACCA |
| ex3_5394950_x3 | CM000668.2/27553494-27553413 | 33 | ###### | 65.9 | 3 | GTAGTCGTGGCCGAGTGGTTAAGGTGATGGACTAGAAACCCATTGGGGTCTCCCCGCGCAGGTTCGAATCCTGCCGACTACG |
| ex3_5395280_x3 | CM000663.2/16678341-16678271 | 20 | ###### | 40.1 | 3 | GCGTTGGTGGTTTAGTGGTAGAATTCTCGCCTCCCATGCGGGAGACCCGGGTTCAATTCCCGGCCACTGCA |

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| ex3_5395304_x3 | CM000685.2/102786742-102786669 | 13 | 0.008 | 26.3 | 3 | TAGAATATAGTGTATCAGGTAGCACAAAGATTTTTGAATTCTTAAGAGAGTAGGTTCAATTCCTATAATCCTGT |
| ex3_5395505_x3 | CM000676.2/20625370-20625451 | 31 | ###### | 61.9 | 3 | GGTAGTGTGGCCGAGCGGTCTAAGGCGCTGGATTTAGGCTCCAGTCTCTTCGGGGGCGTGGGTTCGAATCCCACCACTGCCA |
| ex3_5396711_x3 | CM000678.2/3152900-3152972 | 33 | ###### | 65.9 | 3 | GCCCCGGTGGCCTAATGGATAAGGCATTGGCCTCCTAAGCCAGGGATTGTGGGTTCGAGTCCCACCCGGGGTA |
| ex3_5398190_x3 | CM000678.2/3370982-3370908 | 13 | 0.008 | 26.3 | 3 | TTTAAGATGGCAGACCCCGGCAATTACCTAAGACTTAAAACTTTAAAATCAGAGGTTCAACTCCTCTTCTTAACA |
| ex3_5400143_x3 | CM000674.2/56190364-56190445 | 24 | ###### | 48.1 | 3 | GTCACGGTGGCCGAGTGGTTAAGGCGTTGGACTCGAAATCCAATGGGGTTTCCCCGCACAGGTTCGAATCCTGTTCGTGACG |
| ex3_5400803_x3 | GL000252.2/55434-55363 | 32 | ###### | 63.9 | 3 | GGGGGTGTAGCTCAGTGGTAGAGCGCATGCTTTGCATGTATGAGGTCCCGGGTTCGATCCCCGGCACCTCCA |
| ex3_5404211_x3 | CM000673.2/59551059-59550987 | 29 | ###### | 58 | 3 | GGTTCCATAGTGTAGCGGTTATCACGTCTGCTTTACACGCAGAAGGTCCTGGGTTCGAGCCCCAGTGGAACCA |
| ex3_5407327_x2 | CM000664.2/130273890-130273826 | 14 | 0.002 | 28.2 | 2 | GGTAAAATGGCTGAGTAAGCATTAGACTGTAATCTAAAAACAGAGATCAAGACCTCTTTTTACCA |
| ex3_5408059_x2 | AC004941.2/32735-32806 | 18 | ###### | 36.2 | 2 | GGGGGUAUAGCUCAGGGGUAGAGCAUUUGACUGCAGAUCAAGAGGUCCCUGGUUCAAAUCCAGGUGCCCCCU |
| ex3_5411057_x2 | CM000681.2/12188561-12188634 | 18 | 0.003 | 28.2 | 2 | GGCTCTGTGGCTTTGTGGGTTAAAGTACTTGTCTGGCAAACAGGAGATGCTGGATTTCAATCCCAGCAGGGCCT |

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| ex3_5411421_x2 | CM000663.2/63634501-63634429 | 18 | ###### | 36.2 | 2 | GGTTGTACAGCTTAGAGCTTAAGAGCCTGGACTCTGGAATCAGAGTGTCTGGGTTCAAATCCCAGCTCTGCCA |
| ex3_5414039_x2 | CM000679.2/75034503-75034431 | 33 | ###### | 65.9 | 2 | GCCCCAGTGGCCTAATGGATAAGGCACTGGCCTCCTAAGCCAGGGATTGTGGGTTCGAGTCCCACCTGGGGTG |
| ex3_5416025_x2 | CM000666.2/7504618-7504555 | 14 | 0.003 | 28.2 | 2 | GGCTGGGAAGCCAGCCCTGGGGTCCAGAGCCAGATGGATGTGGGTTCAAATCCCACCACAGCCA |
| ex3_5416085_x2 | CM000663.2/143584701-143584772 | 14 | 0.003 | 28.2 | 2 | GGTTCCATGGTGTAATGGTGAGGGCTTTGGACTCTGACTACAGTGATCAGAGTTCAAGTCTCAGTGGGACCT |
| ex3_5419097_x2 | GL000256.2/19126-19197 | 22 | ###### | 44.1 | 2 | GGGGGTGTAGCTCAGTGGTAGAGCGCGTGCTTAGCATGCACGAGGCCCTGGGTTCAATCCCCAGCACCTCCA |
| ex3_5419179_x2 | CM000679.2/8138962-8138881 | 14 | 0.003 | 28.2 | 2 | GCTGTGATGGCCGAGTGGTTAAGGCGTTGGACTCGAAATCCAATGGGGTCTCCCCGCGCAGGTTCGAATCCTGCTCACAGCG |
| ex3_5420237_x2 | CM000672.2/69593173-69593241 | 15 | 0.001 | 30.2 | 2 | AAGGGCTTAGCTTAAGTAAAGCAATTGATTTGCATACAATTGATGTAGGACAGAGTCTTGCAGTCCTTA |
| ex3_5420999_x2 | CM000663.2/120844335-120844262 | 14 | 0.003 | 28.2 | 2 | GTCTCTGTGGCGTAGTCGGTTAGCGCGTTCGGCTGTTAACCGAAAGGTTGGTGGTTCGAGCCCACCCAGGAACG |
| ex3_5422503_x2 | CM000664.2/140224222-140224152 | 14 | 0.002 | 28.2 | 2 | GTTAATGTAGCTTAATTATTCAAAGCAAGACACTGAAAATGTCTAGATGGGTCTGCACAACCCCATAAACA |
| ex3_5423417_ | CM000665.2/14333 | 15 | 0.001 | 30.2 | 2 | GGTGGTGAAGACAATGGACTGAGGAGTCTGTTGGACCTGGGTTCGAATCCCAGCTCCACCA |

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| x2 | 639-14333699 | | | | | |
| ex3_5423565_x2 | CM000668.2/26701483-26701555 | 18 | 0.003 | 28.2 | 2 | GCCCTCTTAGCGCAGCTGGCAGCGCGTCAGTCTCATAATCTGAAGGTCCTGAGTTCAAGCCTCAGAGAGGGCA |
| ex3_5423719_x2 | CM000679.2/19605432-19605367 | 13 | 0.008 | 26.3 | 2 | GGTAAAATGGCTGAGTAAGCATGAGACTGTAAATCTAAAGACAGAGGTCAAGACCTCTTTTTACCA |
| ex3_5424303_x2 | CM000679.2/8227064-8226991 | 20 | ###### | 40.1 | 2 | GGCCGGTTAGCTCAGTTGGTTAGAGCGTGGTGCTAATAACGCCAAGGTCGCGGGTTCGAACCCCGTACGGGCCA |
| ex3_5425343_x2 | CM000671.2/64046744-64046678 | 15 | 0.0008 | 30.2 | 2 | GGTAAAATGACTGAGTAGGGCATTAGACTGTACATCTAAAAACAGAGGTCAAGGCCTGTTTTTACCA |
| ex3_5427603_x2 | CM000667.2/78023024-78022952 | 14 | 0.002 | 28.2 | 2 | AGCTGTATATTATAGTGGAATAAATGTGGACTTTGAAGTTAGATACACCTGGGTTCAAATCCCAGTGCTGTCA |
| ex3_5427833_x2 | CM000676.2/73588891-73588832 | 18 | ###### | 36.2 | 2 | ATAGCTCAGTTGATAGAGCATCAGACTTTTAATCTGAGGGTCCAGGGTTCATGTCCCTGT |
| ex3_5428411_x2 | CM000669.2/149558042-149558114 | 18 | 0.003 | 28.2 | 2 | GGGGGTATAGCTCAGGGCTAGAGCTTTTTGACTGTAGAGCAAGAGGTCCCTGGTTCAAATCCAGGTTCTCCCT |
| ex3_5430567_x2 | CM000670.2/98141234-98141302 | 13 | 0.009 | 26.3 | 2 | GGTCTTGTGCTCAGTGGAAGCCTCTGTCTGACCATACAGATGATCCAGGTTCGAATCCTGGCAAGGCCA |
| ex3_5431425_x2 | CM000669.2/149613136-149613065 | 13 | 0.01 | 26.3 | 2 | GGGGGTATAGCTCAGGGGTAGAGCATTTGACTGCAAATCAAGAGGTCCCTGATTCAAATCCAGGTGCCCCCT |

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| ex3_5431661_x2 | CM000665.2/120722386-120722318 | 15 | 0.001 | 30.2 | 2 | GAAAAAGTCATAGAGGTTATGAGGTTGGCTTGAAACCAGTTTTAGGGGGTTGGATTCCTTCCTTTTTCG |
| ex3_5436995_x2 | CM000663.2/93933954-93934017 | 13 | 0.008 | 26.3 | 2 | GGTAAAATGGCTGAGTAAGCTTTAGACTATAAATCTAAAGAGAGATTGAGCTCTCTTTTTACCA |
| ex3_5437543_x2 | CM000667.2/123760805-123760873 | 14 | 0.004 | 28.2 | 2 | GTTTATGTAGCTTAATTATTAAAAGCAAGACACTGAAAATGTCTAGACGGACTTATTACCCCATAAACA |
| ex3_5437809_x2 | CM000668.2/27230637-27230555 | 13 | 0.008 | 26.3 | 2 | ACCGGGATGGCTGAGTGGTTAAGGCGTTGGACTTAAGATCCAATGGACAGGTGTCCGCGTGGGTTCGAGCCCCACTCCCGGTA |
| ex3_5439775_x2 | CM000664.2/30054702-30054774 | 13 | 0.01 | 26.3 | 2 | GGGCCAGTGGCTCAATGGATAATGCGTCTGACTAAGAATCAGAAGATTCCAGCCTTGACTCCTGGCTGGCTCA |
| ex3_5440527_x2 | GL000251.2/219991-220062 | 26 | ###### | 52 | 2 | GGGGGTGTAGCTCAGTGGTAGAGCGCGTGCTTCGCATGTACGAGGCCCCGGGTTCGACCCCCGGCTCCTCCA |
| ex3_5441541_x2 | CM000663.2/161456332-161456414 | 20 | ###### | 40.1 | 2 | GTCAGGATGGCCGAGCGGTCTAAGGCGCTGCGTTCAGGTCGCAGTCTCCCCTGGAGGCGTGGGTTCGAATCCCACTCCTGACA |
| ex3_5441675_x2 | CM000685.2/143434095-143434024 | 14 | 0.004 | 28.2 | 2 | TAGGATATGGTATATTAGGTAGCACAAAGAATTTTGAATTCTCAGGGGTAGATTCAATTCCTATAATTCTAG |
| ex3_5441751_x2 | CM000677.2/58152510-58152578 | 13 | 0.008 | 26.3 | 2 | GTAAATATAGTATAACCAAAACATTAGATTGTGGATCTAATAACAGAAGTCTGAAACTTCTTATCTACT |

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|---|---|---|---|---|---|---|
| ex3_5442567_x2 | CM000679.2/19605267-19605195 | 14 | 0.004 | 28.2 | 2 | TAGATTGAAGCCAATTGATTAGGGTGTTTAGATGTTAGCTAAATTTTCGTGGGTTTGAATTCCACCAGCCTAG |
| ex3_5443119_x2 | CM000686.2/8371587-8371660 | 13 | 0.008 | 26.3 | 2 | GTTAAGATGGCAGAACCTGGCAGTTTCATAAAACTTAAAGTTTATAATCAGAGGTTCAACTCCTCTTCTTAACA |
| ex3_5444403_x2 | CM000668.2/27020346-27020439 | 31 | ###### | 61.9 | 2 | GCTCCAGTGGCGCAATCGGTTAGCGCGCGGTACTTATATGGCAGTATGTGTGCGAGTGATGCCGAGGTTGTGAGTTCGAGCCTCACCTGGAGCA |
| ex3_5445731_x2 | CM000679.2/19603208-19603276 | 18 | ###### | 36.2 | 2 | GGAAATATGTCTGACAAAAGAATTACTTTGATAGAGTAAATAATAGAGGTTAAAATCCTCTTATTTCTA |
| ex3_5445887_x2 | CM000667.2/151868584-151868513 | 13 | 0.008 | 26.3 | 2 | GGTAGTGTAGTCTACTGGTTAAACGCTTGGGCTCTGACATTAACGTCCTGGGTTCAAATCCCAGCTTTGTCA |
| ex3_5445949_x2 | CM000668.2/28607156-28607227 | 14 | 0.002 | 28.2 | 2 | GGGGGTGTAGCTCAGTGGTAGAGCGCGTGCTTAGCATGTACGAGGTCCCGGGTTCAATCCCCGGCACCTCCA |
| ex3_5446901_x2 | CM000670.2/67585468-67585398 | 19 | 0.0005 | 30.2 | 2 | ACTTTTAAAGGATGAGAGTCATCCGTTGGTCTTAAGAACCAAAAACACTGGTGCAACTCCAAATAAAAGTA |
| ex3_5450023_x2 | CM000679.2/19603345-19603274 | 13 | 0.01 | 26.3 | 2 | TAGGATGTGGTGTAATAGGTGGCATGGAGAATTTTGGATTATCAGGGGTAGGTTCAATTCCTATAGTTCTAG |
| ex3_5450047_x2 | CM000663.2/161612029-161611946 | 17 | 0.01 | 26.3 | 2 | GTCAGGATGGCCGAGCAGTCTTAAGGCGCTGCGTTCAAATCGCACCCTCCGCTGGAGGCGTGGGTTCGAATCCCACTTTTGACA |
| ex3_5450269_ | CM000674.2/74457 | 14 | 0.004 | 28.2 | 2 | CCATGGTGTAATGGTAAGCACCCTGGACTCTGAATCCAGCAACCAGAGTTCCAGTCTCAGCGTGGA |

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| x2 | 406-74457471 | | | | | |
| ex3_5450479_x2 | CM000668.2/78958365-78958293 | 20 | ###### | 40.1 | 2 | GCCAAAATAGCTCAGCTGGGAGAGCATTAGACTGAAGATCTAAAGGTCTCTGGTTTGATCCTGGGTTTCAGAA |
| ex3_5450671_x2 | CM000669.2/68098326-68098258 | 15 | 0.0005 | 30.2 | 2 | GAGAAGGTCATAGAGGTTATGGGATTGGCTTGAAACCAGTTTCTGGAGGTTCCATTCTTTCCTTTTTCG |
| ex3_5452895_x2 | CM000678.2/2927661-2927733 | 14 | 0.003 | 28.2 | 2 | CCCCGGCTGGCTCAGTCAGTAGATCATGAGACTCTTAATCTCAGGGTCGTGGGTTCACGCCCCACACTGGGCG |
| ex3_5454069_x2 | CM000685.2/55180233-55180304 | 13 | 0.008 | 26.3 | 2 | TAGGACATGGTGTGATAGGTAGCATGGAGAATTTTGGATTCTCAGGGGTAGGTTCAATTCCTACAGTTCTAG |
| ex3_5455487_x2 | CM000668.2/18053386-18053467 | 19 | ###### | 38.2 | 2 | GGGCCAGTGGCGCAATGGATAACGCGTCTGACTACGGATCAGAAGATTCTAGAAATAGTAACTAAGGGCAGAATTTGGCCCA |
| ex3_5458237_x2 | CM000676.2/61184426-61184490 | 15 | 0.0007 | 30.2 | 2 | GACAGTTTGGCTTAGTGGTTAAGAGCTTTGGTACCAGATGGAATGGGTTCAAATCCCAACTCTCT |
| ex3_5458827_x2 | CM000669.2/57170776-57170844 | 14 | 0.002 | 28.2 | 2 | GTAAATATAGTTTAATCAAAACATTAGATTGTGGGTCTAATAATAAAGTCTGCAACTTCTTATTTACT |
| ex3_5459403_x2 | CM000663.2/147005272-147005201 | 15 | 0.0008 | 30.2 | 2 | GGTTCCATGGTGTAATGGTGACCACTTTGGACTCTGAATACAGTGATCAGAGTTCAAGTCTCACTGGAACCT |
| ex3_5459869_x2 | CM000682.2/57358446-57358372 | 14 | 0.004 | 28.2 | 2 | GTTAAGATGGCAGAGCCCAGCGATTGCATAAAACTTAACACTTTATAATCAGAGGTTCAACTCCTCTTCTTAACA |

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|---|---|---|---|---|---|---|
| ex3_5464725_x2 | CM000672.2/36434683-36434615 | 15 | 0.001 | 30.2 | 2 | GTAAATATAGTTTAGTCAAAATATTAGATTGTGGATCTGATAATAGAAGTCTGTAACTTCTTATTTACT |
| ex3_5465079_x2 | CM000676.2/20660051-20659958 | 17 | ###### | 34.2 | 2 | CCTTCGATAGCTCAGCTGGTAGAGCGGAGGACTGTAGACTGCGGAAACGTTTGTGGACATCCTTAGGTCGCTGGTTCAATTCCGGCTCGAAGGA |
| ex3_5469309_x2 | CM000666.2/84855315-84855245 | 16 | 0.0003 | 32.2 | 2 | AATATAGTACTGAGTGATGAAGAGCCTGGCTTGGAATCAGATAGATGTAGTTTTAAATTCTGTCTGTATTG |
| ex3_5470389_x2 | CM000670.2/33015028-33015130 | 13 | 0.01 | 26.3 | 2 | GGAAATATGTCTGACAAAATAATTACTTTGATAGAGTAAACAATACAGGTTAAAATCTCTCATTTCTAGAACTACAATAGAGGTTAAAATCCTCTTATTTCTA |
| ex3_5470511_x2 | CM000678.2/70788694-70788764 | 37 | ###### | 73.8 | 2 | GCATTGGTGGTTCAGTGGTAGAATTCTCGCCTGCCATGCGGGCGGCCGGGCTTCGATTCCTGGCCAATGCA |
| ex3_5471367_x2 | GL000253.2/24013-23942 | 21 | ###### | 42.1 | 2 | GGGGGTGTAGCTCAGTGGTAGAGCACATGCTTTGCATGTGTGAGGCCCCGGGTTCGATCCCCGGCACCTCCA |
| ex3_5471415_x2 | CM000668.2/142257639-142257709 | 13 | 0.008 | 26.3 | 2 | GCATGGGTGATTCAGTGGTAGAATTTTCACCTGCCATGCAGGAGGTCCAGGTTCATTTCCTGGCCTATGCA |
| ex3_5479377_x2 | CM000663.2/161480566-161480636 | 27 | ###### | 54 | 2 | GCATAGGTGGTTCAGTGGTAGAATTCTTGCCTGCCACGCAGGAGGCCCAGGTTTGATTCCTGGCCCATGCA |
| ex3_5481289_x2 | CM000664.2/201213158-201213088 | 14 | 0.002 | 28.2 | 2 | ACTTTTAGAGGATGAGAGTTATCCATTGGTCTTAGGAACCAAAAATATTGGTGCAACTCCAAATAAAAGTA |
| ex3_5483565_ | CM000670.2/79428 | 13 | 0.008 | 26.3 | 2 | GGCACTGTAGTTTGGATTGAGAAACACAGGCTTTAGAGGCAGAAGTTCTGGGTTCAAACCCAGCATTGCCA |

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| x2 | 812-79428742 |  |  |  |  |  |
| ex3_5487481_x2 | CM000676.2/20653192-20653099 | 15 | 0.0008 | 30.2 | 2 | CCTTCGATAGCTCAGCTGGTAGAGCGGAGGACTGTAGCCTGTAGAAACATTTGTGGACATCCTTAGGTCGCTGGTTCGATTCCGGCTCGAAGGA |
| ex3_5491011_x2 | CM000663.2/143661253-143661182 | 26 | ###### | 52 | 2 | GCCATGATCGTATAGTGGTTAGTACTCTGCGCTGTGGCCGCAGCAACCTCGATTCGAATCCGAGTCACGGCA |
| ex3_5491347_x2 | CM000664.2/155263777-155263842 | 13 | 0.008 | 26.3 | 2 | CGTAAAATGGCTGAGTAAGGCATTAGACTGTAAATCTAAAGACAGAGGCTAAACCTCTTTTTACCA |
| ex3_5491915_x2 | CM000681.2/35575848-35575920 | 13 | 0.008 | 26.3 | 2 | GCCCAGCTAGCTCAGTCGGTAGAGCATAAGACTCTTAATCTCAGGGTTGTGGATTCGTGCCCCATGCTGGGTG |
| ex3_5492517_x2 | CM000664.2/11551708-11551764 | 13 | 0.009 | 26.3 | 2 | TGGTCTAGTGGTTAGGATTCAGCGCTCCCACCGCCGCAGCCCGGGTTCGATTCCCGG |
| ex3_5494493_x2 | CM000670.2/65697384-65697297 | 15 | 0.001 | 30.2 | 2 | TCTTCAATAGCTCAGCTGGTAGAGCGGAGGACTGTAGGTGCACGCCCGTGGCCATTCTTAGGTGCTGGTTTGATTCCGACTTGGAGAG |
| ex3_5494815_x2 | GL000251.2/185814-185743 | 13 | 0.009 | 26.3 | 2 | GGGGGTGTAGATCAGTGGTAGAGCGCGTGCTTCGCATGTACGAGGTCCCTGGTTCAATCCCTGGCACCTCCA |
| ex3_5495949_x2 | CM000679.2/75035113-75035185 | 31 | ###### | 61.9 | 2 | GACCGCGTGGCCTAATGGATAAGGCGTCTGACTTCGGATCAGAAGATTGAGGGTTCGAGTCCCTTCGTGGTCG |
| ex3_5495967_x2 | CM000682.2/50335886-50335805 | 14 | 0.003 | 28.2 | 2 | GGTAGGGTGGCCGAGCGGTCTAAGGCACTGTATTAAGACTCCAGTCTCTTCAGAGGCATGGGTTTGAATCCCACTGCTGCCA |

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| ex3_5496939_x2 | CM000668.2/27664766-27664841 | 13 | 0.009 | 26.3 | 2 | GCCGAAATAGCTCAATTGGGAGAGTGTTAGACTGAAGATCTTCTGCAGGTCTCTGGTTCAATTCCGGGTTTCGACA |
| ex3_5497183_x2 | CM000668.2/28213037-28213118 | 35 | ###### | 69.9 | 2 | GACGAGGTGGCCGAGTGGTTAAGGCGATGGACTGCTAATCCATTGTGCTCTGCACACGTGGGTTCGAATCCCATCCTCGTCG |
| ex3_5499419_x2 | CM000673.2/59551755-59551837 | 20 | 0.0002 | 32.2 | 2 | ACCAGAATGGCCGAGTGGTTAAGGCGTTGGACTTAAGATCCAATGGATTCATATCCGCGTGGGTTCGAACCCCACTTCTGGTA |
| ex3_5500023_x2 | CM000673.2/50274779-50274708 | 13 | 0.01 | 26.3 | 2 | GGGGGTGTAGCTCAGTGGTAGAGCGGATGCTTTGCATGTATGAGACTTTGGGTTGGATCCCCAGCACCTCCA |
| ex3_5500501_x2 | CM000671.2/110198523-110198595 | 15 | 0.0005 | 30.2 | 2 | GGCCGTGTGGCCTAATGGATAAGGCGTCTGACTTCGGATCAAAAGATTGCAGGTTTGAGTTCTGCCACGGTCG |
| ex3_5501479_x2 | CM000678.2/3164938-3165010 | 13 | 0.008 | 26.3 | 2 | GCCTGGCTAGCTCAGTCGGCAAAGCATGAGACTCTTAATCTCAGGGTCGTGGGCTCGAGCTCCATGTTGGGCG |
| ex3_5501579_x2 | CM000665.2/15211466-15211541 | 15 | 0.0007 | 30.2 | 2 | GCCTGGATAGCTCCTTCGGTAGAGCATCATCAGACTTTTAATGTGAGGGTCCAGGGTTCAAGTTCCTGTTTGGGCG |
| ex3_5503537_x2 | CM000663.2/146488866-146488936 | 18 | 0.003 | 28.2 | 2 | GCGTCAGTGGTTTAGTGGTGGAATTCCTGCCTCCCATGCACGAGATCCGTGTTCAACTCCTGGTTGGTGCA |
| ex3_5504643_x2 | GL000256.2/1818-1745 | 19 | ###### | 38.2 | 2 | GCCTGGGTAGCTCAGTCGGTAGAGCTATCAGACTTTTAGCCTGAGGATTCAGGGTTCAATCCCTTGCTGGGGCG |
| ex3_5514431_x2 | CM000664.2/223321669- | 21 | ###### | 34.2 | 2 | GTTGGGGTAACTCAGTTGGTAGAGTAGCAGACTTTTCATCTGAGGGTCCAGGGTTTAAGTCCATGTCCAGGCA |

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|---|---|---|---|---|---|---|
| | 223321597 | | | | | |
| ex3_5518805_x2 | CM000685.2/25262043-25261972 | 14 | 0.003 | 28.2 | 2 | AGTCAAGTGGTTTAGTGGAAAGAACATTGGATTGGAAGTCAAGAGGCCTGGATTCTTGCTCCAGCTTCACCA |
| ex3_5519329_x2 | CM000664.2/211778080-211778008 | 14 | 0.004 | 28.2 | 2 | TAGATTGAAGCCAGTTGATTAGGGGGTTTAACTGTTAACTAAATTTTCGTGGTTTTGAATTCCACCAGTCTAG |
| ex3_5524437_x2 | CM000669.2/149546540-149546611 | 14 | 0.003 | 28.2 | 2 | GGGGGTATAGCTCAGGGGTAGAGCACTTGACTGCAGATCAAGAAGTCCTTGGTTCAAATCCAGGTGCCCCCT |
| ex3_5526159_x2 | CM000664.2/131382569-131382638 | 15 | 0.001 | 30.2 | 2 | GAGAAGGTCATAGAGGTTATGGGATTGGCTTGAAACCAGTCTCTGGGGGGTTCGATTCCCTCCTTTTTCA |
| ex3_5532505_x2 | CM000669.2/149415209-149415138 | 13 | 0.01 | 26.3 | 2 | GGGGGTATAGCTTAGCGGTAGAGCATTTGACTGCAGATCAAGAGGTCCCCGGTTCAAATCCGGGTGCCCCCT |
| ex3_5533897_x2 | CM000679.2/15505371-15505444 | 18 | 0.002 | 28.2 | 2 | GGCAGTGACGCCTACTGGTTTAGAGCACAGATTCTAGATCGAGACATTCCTGGGTTCAAATCCCAGCACTGTTG |
| ex3_5538919_x2 | CM000668.2/57861238-57861166 | 14 | 0.003 | 28.2 | 2 | GGGGAATTAGCGCAAGTGGTAGAGTGCTTGCTTAGCATGCAAGAGGTAGTGGGATCGATGCCCACATTCTCCA |
| ex3_5540499_x2 | CM000679.2/22528921-22528853 | 14 | 0.004 | 28.2 | 2 | GAAAAAGTCATAGGGGTTATGAGGCTGGCTTGAAACCAGCCTTAGGAGGTTCAATTCCTTCCTTTTTTG |

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|---|---|---|---|---|---|---|
| ex3_5541939_x2 | GL000254.2/88976-88903 | 13 | 0.008 | 26.3 | 2 | GCCGAAATAGCTCAGTGGGGAGAGCGTTAGACTGAAGATCTTAAAGGTCCCTGGTTCAATCCCGGGTTTCGGCA |
| ex3_5542753_x2 | CM000669.2/149691252-149691181 | 22 | ###### | 36.2 | 2 | GGGGATATAGCTCAGGGGTAGAGCATTTGACTGCAGATCAAGAGGTCCCCGGTTCAAATCCGGGTGCCCCCC |
| ex3_5543579_x2 | CM000664.2/84858752-84858824 | 14 | 0.002 | 28.2 | 2 | GGTTCCATAGTGTAACAGTTATCATGTCTGCTTTACACACTGAAGGTCCTGGGTTCAAACTCCAGTGGAACCA |
| ex3_5549429_x2 | KI270765.1/51018-50945 | 14 | 0.005 | 28.2 | 2 | GTCTCTGTGGCACAATCGGTTAGCGCGTTTGGCTGTTAATCTAAAGTTTGGTGGTTAGAGCCCACTGAGGGACG |
| ex3_5552069_x2 | CM000669.2/149310190-149310261 | 29 | ###### | 50.1 | 2 | GGGGGCATAGCTCAGTGGTAGAGCATTTGACTGCAGATCAAGAGGTCCCTGGTTCAAATCCAGGTGCCCCCT |
| ex3_5557829_x2 | CM000664.2/143096757-143096689 | 14 | 0.002 | 28.2 | 2 | GTAAATATAGTTTAACCAAAACATTAGATTGTGAATCTAATAATAGAAGCCTGTAACTTCTTATCTACC |
| ex3_5559187_x2 | CM000663.2/146370101-146370174 | 14 | 0.003 | 28.2 | 2 | GTCTCTGTGGCGCAATCGGTTAGCGCGTTCGGCTGTTAACCGCAAGGTTGGTGGTTCCAGCCCACCCAGGGACG |
| ex3_5560247_x2 | CM000669.2/67399631-67399560 | 14 | 0.004 | 28.2 | 2 | GGCCTCATGGTGCAACAGTAGTGTGTCTGACTCCAGATCAGAAGGTTGTATGTTCAAATCACGTAGGGGTCA |
| ex3_5561195_x2 | CM000668.2/27303860-27303789 | 13 | 0.008 | 26.3 | 2 | GGCAGAGTGGTGCAGCGGAAGCGTGCTGGGCCCGTAACCCAGAGGTCAATGGATCGAAGCCATCCTTGGCTA |
| ex3_5562965_ | CM000685.2/55180 | 13 | 0.008 | 26.3 | 2 | GGAAATATGTCTGACAAAAGAACTACTTTGATAGAGTAAACAACAGAGGTTAAAATCCTCTTATTTCTA |

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| x2 | 370-55180302 | | | | | |
| ex3_5566731_x2 | CM000673.2/39766947-39766879 | 13 | 0.01 | 26.3 | 2 | GAGAGAGTCATAGAGGGTATGGGATTGGCTTGAAACCAGTTTCTGGAGGTTTGATTCCTTCCTTTCTCG |
| ex3_5566975_x2 | CM000667.2/181097555-181097474 | 36 | ###### | 71.9 | 2 | GGTAGCGTGGCCGAGCGGTCTAAGGCGCTGGATTAAGGCTCCAGTCTCTTCGGAGGCGTGGGTTCGAATCCCACCGCTGCCA |
| ex3_5568425_x2 | CM000669.2/149647026-149646955 | 16 | 0.0002 | 32.2 | 2 | GGGGGTATAGCTTAGGGGTAGAGCATTTGACTGCAGATCAAAAGGTCCCTGGTTCAAATCCAGGTGCCCCTT |
| ex3_5570075_x2 | CM000678.2/3180626-3180554 | 15 | 0.0006 | 30.2 | 2 | GCCCGGCTAGCTCAGTCGATAGAGCATGAGACTCTTAATCTCAGGGTCGTGGGTTCGAGCCGCACGTTGGGCG |
| ex3_5575289_x2 | KI270713.1/28828-28755 | 14 | 0.003 | 28.2 | 2 | GTCTCTGTGGCGCAGTCGGTTAGCGCGTTCGGCTGTTAACCGGAAGGTTGGTGGTTCGAGACCACCCAAGGACG |
| ex3_5577181_x2 | CM000673.2/9275243-9275316 | 14 | 0.002 | 28.2 | 2 | GCCTCCTTAGTGCAGTAGGTAGCGCATCAGTCTCAAAATCTGAATGGTCCTGAGTTCAAGCCTCAGAGGGGGCA |
| ex3_5578923_x2 | CM000664.2/42810536-42810628 | 30 | ###### | 60 | 2 | GCTCCAGTGGCGCAATCGGTTAGCGCGCGGTACTTATACAGCAGTACATGCAGAGCAATGCCGAGGTTGTGAGTTCGAGCCTCACCTGGAGCA |
| ex3_5580905_x2 | CM000670.2/18537373-18537307 | 13 | 0.008 | 26.3 | 2 | GGTAATATAGCTTAAGAGCCGTGGGTTTTGAACTCAGATTGCCTTGGTTCAAATCCGAGTTTCATTT |
| ex3_5581877_x2 | CM000681.2/41242309-41242237 | 13 | 0.008 | 26.3 | 2 | GCCAGGATAGTTCAGGTGGTAGAGCATCAGACTTTTAACCTGAGGGTTCAGGGTTCAAGTCTCTGTTTGGGCG |

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| ex3_5588729_x2 | CM000665.2/106894213-106894143 | 13 | 0.008 | 26.3 | 2 | ACTTTTAAAGGATAGGAGTTATCTATTGATCTTAGGAACCAAAAACATTGGTTCAACTCCAAGTAAAGGTA |
| ex3_5589775_x2 | CM000668.2/28537590-28537683 | 14 | 0.004 | 28.2 | 2 | GCTCCAGTGGCGCAATCGGTTAGCGCGGTACTTATAAGACAGTGCACCTGTGAGCAATGCCGAGGTTGTGAGTTCAAGCCTCACCTGGAGCA |
| ex3_5596973_x2 | CM000668.2/27505909-27505828 | 19 | ###### | 38.2 | 2 | GTAGTCGTGGCCGAGTGGTTAAGGCGATGGACTTGAAATCCATTGGGGTTTCCCCGCGCAGGTTCGAATCCTGTCGGCTACG |
| ex3_5601723_x2 | CM000679.2/22525692-22525760 | 14 | 0.003 | 28.2 | 2 | AGAAATATGTCTGACAAAAGAGTGACTTTGATAGAGTAAATAATAGAGGTTTGAATCCTCTTATTTCTA |
| ex3_5601989_x2 | CM000665.2/166233278-166233208 | 14 | 0.004 | 28.2 | 2 | GTTGATGTGGTTTAATATGTTAAAACAAGGCATTGAAAATGTCTAGATGAGTTCTCATAGCTCCATAAACA |
| ex3_5603859_x2 | CM000678.2/3191989-3192060 | 18 | ###### | 36.2 | 2 | GGCTCGTTGGTCTAGGGGTATGATTCTCGCTTAGGATGCGAGAGGTCCCGGGTTCAAATCCCGGACGAGCCC |
| ex3_5605025_x2 | CM000669.2/149363270-149363207 | 14 | 0.002 | 28.2 | 2 | GTGGATATAGTCTGCATTTGACTGCAAATTAAAGAAGTCTCTGGTTCAAATCCAGCTGTCCCCT |
| ex3_5608453_x2 | CM000663.2/149701404-149701333 | 14 | 0.005 | 28.2 | 2 | TGCATGGTTGTCTAGTGGCTAGGATTCGGTGCTGAAAGCGCCACGGCCCGGGTTCGATTCCCGGTCAGGGAA |
| ex3_5609899_x2 | CM000663.2/205474143-20547421 | 13 | 0.008 | 26.3 | 2 | GCCCGGAGAGCTCAGTGGGTAGAGCATCAGACTTTTAATCTGAGGGTCCAGGGTTCAAGTCCTCGTTCGGGCA |

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| ex3_5611225_x2 | CM000668.2/57813562-57813490 | 13 | 0.008 | 26.3 | 2 | GAGGAATTAGCTCAGGCGGTAGAGCGCTCGCTTAGCATGCGAGAGGTAGCGGGATCGACGCCCGCATTCTCCA |
| ex3_5614553_x2 | CM000664.2/117025004-117024933 | 18 | 0.004 | 28.2 | 2 | TAGGACATGGTGTAATAGGTAGAATGGAGAATTTTGAATTCTCAGGGGTAGGTTCAATTCCTATAGTTCTAG |
| ex3_5624589_x2 | CM000667.2/152609036-152609211 | 14 | 0.003 | 28.2 | 2 | GGCTGTATAGCTCAGTGGTAGAGCATTTGACTACAGAATCCTATACTCAGGGGAAGGAGAACTGGGGGTTTCTCAGTGGGTCAAAGGACTTGTAGTGGTAAATCAAAAGCAACTCTATAAGCTATGTAACAAACTTTAAAGTCATATGTAGCTGGGTTCAAATCCTGTTTCTGCCA |
| ex3_5625569_x2 | CM000667.2/5396407-5396475 | 13 | 0.008 | 26.3 | 2 | GAAGAAGTCATGGAGGTTATGGGATTGGCTTGAAACCAGTCTTTGGGGGTTCAATTCCTTCCTTTTTCA |
| ex3_5627889_x2 | CM000668.2/27668583-27668656 | 20 | ###### | 40.1 | 2 | GGCCGGTTAGCTCAGTCGGCTAGAGCGTGGTGCTAATAACGCCAAGGTCGCGGGTTCGATCCCCGTACGGGCCA |
| ex3_5629575_x2 | CM000669.2/141805039-141804965 | 13 | 0.009 | 26.3 | 2 | GTTAAGATGGCAGAGCCCGGCAATTGCATAAAACTTAAAACTTTATAACTGGAGGTTCAACTCCTCTTCTTCTTC |
| ex3_5633114_x1 | CM000686.2/8372171-8372101 | 14 | 0.003 | 28.2 | 1 | TAGGACGTGGTGTAATAGGTAGCACAGAGAATTTTGGATTCTCAGGTGCAGGTTCAATTCCTATATTCTAG |
| ex3_5633996_x1 | CM000669.2/57187595-57187527 | 13 | 0.008 | 26.3 | 1 | CATGGCTTAGCTTAATTAAAGTGATTGATTTGCATTCAATTGATGCAGAATACAGTTTTGCAGTCTTTA |
| ex3_5636195_x1 | GL000255.2/210156-210228 | 22 | ###### | 44.1 | 1 | GCCTCCTTAGCGCAGTAGGCAGCGCGTCAGTCTCATAATCTGAAGGTCCTGAGCTCGAACCTCAGAGGGGGCA |

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| ex3_5637158_x1 | CM000667.2/100048984-100048916 | 16 | 0.0002 | 32.2 | 1 | GTAAATATAGTTTAACCAAAACATCAGATTGTGAATCTGATAACAGAGGCTCACAGCCCCTTATTTACC |
| ex3_5637778_x1 | CM000668.2/57808645-57808718 | 14 | 0.005 | 28.2 | 1 | GTCTTCTTAGCGCAGTGAGCAGCGCGTCAGTCTCATAATCTGAAGGTCCTGATGTTCGAGCCTGAGAAAAGGCA |
| ex3_5638421_x1 | CM000663.2/120476923-120476852 | 18 | 0.002 | 28.2 | 1 | GGTTCCATGGTGTAATGGTGAGCACTTTGGACTCTGAATACAGTGATCAGAGTTCAAGTCTCACTGGGACCT |
| ex3_5639977_x1 | CM000679.2/22524659-22524733 | 13 | 0.009 | 26.3 | 1 | GTTAAGATGGCAGACCCCAGCAATTGCATAAAATTTAAAACTTTACAACCAGAGGTTCAACCCCTCTTCTTAACA |
| ex3_5640248_x1 | CM000663.2/143717365-143717292 | 13 | 0.009 | 26.3 | 1 | GTCTCTGTGGCACAATCGGTTAGAGCGTTCGGCTGTTAATCTAAAGGTTGGTGGCTAGAACCCACTGAGGGACG |
| ex3_5640817_x1 | CM000685.2/55178989-55179057 | 13 | 0.009 | 26.3 | 1 | AAGGGCTTAGCTTAATTAAGGTGGTTGATTTGCATTCAATTGATGCAGAATAGAGTCTTGCAGTCCTCA |
| ex3_5642340_x1 | CM000664.2/82819272-82819338 | 13 | 0.01 | 26.3 | 1 | GCCCTTGTAGTATAATTCAATACTCTGGTCTTGTAAACCAGAAATGGAGGATCTCCTCCCCAGGACA |
| ex3_5642649_x1 | CM000684.2/36179392-36179460 | 13 | 0.01 | 26.3 | 1 | GGAAATATGTCTGATAAGAGAGTTACTTTGACAGAGTAAATTACAGAGGTTTAAATCTTCCTATTTCTA |
| ex3_5642870_x1 | CM000663.2/149639453-149639526 | 14 | 0.003 | 28.2 | 1 | GTCTCTGTGGTGCAATCGGTTAGCGCGTTTGACTGTTAACTGAAAGGTTGGTGGTGCAAGCCCATCCAGGGATG |

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|---|---|---|---|---|---|---|
| ex3_5644466_x1 | CM000664.2/27050782-27050870 | 14 | 0.005 | 28.2 | 1 | CCTTCGATAGCTCAGTTGGTAGAGCGGAGGACTGTAGTGGATAGGGCGTGGCAATCCTTAGGTCGCTGGTTCGATTCCGGCTCGAAGGA |
| ex3_5647425_x1 | CM000664.2/131384079-131384143 | 19 | 0.0008 | 30.2 | 1 | GGTAAAATGGCTGAGTAAGCATTAGACTGTAATCTGAAAACAGAGGTCAAGACCTCTTTTTACCA |
| ex3_5647648_x1 | CM000686.2/11133337-11133271 | 17 | 0.009 | 26.3 | 1 | GGTAAAATGACTAAGTAGGGCATTAGACTGTACATCTAAAAACAGAGGTCAAGGCCTGTTTTTACCA |
| ex3_5647796_x1 | CM000674.2/41699391-41699323 | 18 | ###### | 36.2 | 1 | AGAAATATGTCTGATAAAAGAGTTACTCTGATAGAGTAAATAATAGAGGTTTAAACCCTCTTATTTCTA |
| ex3_5648031_x1 | CM000673.2/59556429-59556501 | 14 | 0.003 | 28.2 | 1 | GCCCGGATAGCTCAGTCGGTAGAGCATCAGACTTTTAATCTGAGGGTCCGGGGTTCAAGTCCCTGTTCGGGCG |
| ex3_5648187_x1 | CM000673.2/20200305-20200250 | 14 | 0.003 | 28.2 | 1 | GAAGGTATAGCTCAGGGGTAGAGCATTTGACTGCAGATCAAGAAAATACTCCTTTG |
| ex3_5648333_x1 | CM000667.2/142394494-142394423 | 27 | ###### | 54 | 1 | TCCTCATCAGTATAGTGGTGAGTATCCCCGCCTGTCACGCGGGAGACTGGGGTTCGATTCCCTGAGGAGGAG |
| ex3_5650116_x1 | CM000679.2/38833793-38833722 | 14 | 0.003 | 28.2 | 1 | GGGGGTAGGGCTCAGGGATAGAGCATTTGACTGCAGATCAAGAGGTCCCCGGTTCGAATCTAGGTGCCCCCT |
| ex3_5651239_x1 | CM000670.2/88133080-88133007 | 13 | 0.009 | 26.3 | 1 | GGTACAGTGTTAAAGGGGAGAAAAATTGCTGACTTTGAATACAGTAGACCTAGGTTTGAATCCTGGCTTTACCA |
| ex3_5652066_ | CM000668.2/27091 | 36 | ###### | 71.9 | 1 | GGCTCGTTGGTCTAGGGGTATGATTCTCGCTTCGGGTGTGAGAGGTCCCGGGTTCAAATCCCGGACGAGCCC |

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|---|---|---|---|---|---|---|
| x1 | 742-27091813 | | | | | |
| ex3_5652929_x1 | CM000668.2/94447329-94447261 | 13 | 0.008 | 26.3 | 1 | AGAAATATGTCTGACAAAAGAGTTACTTTGATATAATAAATTATAGAGGTTCAAACCCTCTTATTTCTA |
| ex3_5657489_x1 | CM000664.2/140217252-140217317 | 13 | 0.008 | 26.3 | 1 | GGTAAAATGACTGAGTAAACATTAGACTGTAAATCTAAATACAGAGGCCAAGGCCTCTTTTTACCA |
| ex3_5660539_x1 | CM000679.2/8120395-8120314 | 31 | ###### | 61.9 | 1 | GGTAGCGTGGCCGAGCGGTCTAAGGCGCTGGATTTAGGCTCCAGTCTCTTCGGAGGCGTGGGTTCGAATCCCACCGCTGCCA |
| ex3_5670254_x1 | CM000668.2/27602675-27602569 | 34 | ###### | 67.9 | 1 | GTCAGGATGGCCGAGTGGTCTAAGGCGCCAGACTCAAGTTGCTACTTCCCAGGTTTGGGGCTTCTGGTCTCCGCATGGAGGCGTGGGTTCGAATCCCACTTCTGACA |
| ex3_5671376_x1 | CM000672.2/47633857-47633927 | 14 | 0.004 | 28.2 | 1 | GTTAATGTAGCTTAATTATTTAAAGCAAGGCACTGAAAATGCCTAGATGGGTCCGCACAACCCGGTAAACA |
| ex3_5672492_x1 | CM000679.2/38861755-38861684 | 23 | ###### | 38.2 | 1 | GGGGGTATAGCTCAGGGGTAGAGCATTTGACTGCAGATCAAGAAGTCCCCGGTTCAAATCCGGGTGCCCCCT |
| ex3_5672608_x1 | CM000668.2/27721201-27721119 | 13 | 0.01 | 26.3 | 1 | ACCGGGATGGCCGAGTGGTTAAGGCGTTGGACTTAAGATCCAATGGGCTGGTGCCCGCGTGGGTTCGAACCCCACTCTCGGTA |
| ex3_5672673_x1 | CM000681.2/49534748-49534676 | 13 | 0.01 | 26.3 | 1 | ACCTGGGTAGCTTAGTTGGTAGAGCATTGGACTTTTAATTTGAGGGCCCAGGTTTCAAGTCCCTGTTTGGGTG |
| ex3_5676503_x1 | CM000663.2/16520658-16520585 | 14 | 0.004 | 28.2 | 1 | GTCTCTGTGGCGCAATCGGTTAGCGCGTTCGGCTGTTAACTGAAAGGTTGGTGGTTCGAGCCCACCCAGGGACG |

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|---|---|---|---|---|---|---|
| ex3_5676802_x1 | KZ208915.1/3266540-3266610 | 14 | 0.004 | 28.2 | 1 | GGGGGTAGAATTCGGGGTAGAACATTTGACTGCAGATCAAGAGGTCCCCGCTTCGAATCTGGGTACCCCCT |
| ex3_5677528_x1 | CM000671.2/84246500-84246559 | 13 | 0.008 | 26.3 | 1 | GGTTCCATGGTGTAATGGTGAGCACTCTGGACTCAGAATCCAGAAGTAGTGCTGGAACAA |
| ex3_5678217_x1 | CM000684.2/36172857-36172789 | 14 | 0.006 | 28.2 | 1 | GAGAAAGTCAGAGTGATTATGAAGCTCGTTTGGAACCAGTTTTAGGAGGTTTGATTCCTTCCTTTCTCG |
| ex3_5680876_x1 | CM000673.2/113562356-113562273 | 13 | 0.01 | 26.3 | 1 | ACCAGGATGGCCAAGTAGTTAAAGGCACTGGACTTAAGAGCCAATGGACATATGTCTGTGTGGGTTTGAACCCCACTCCTGGTG |
| ex3_5680944_x1 | CM000671.2/5096482-5096410 | 15 | 0.0005 | 30.2 | 1 | TAGATTGAAGCCAGTTGATTAGGGTATTTAGCTGTTAACTAAATTTTTGTGGGTTTGAATTCCACCGATCTAG |
| ex3_5681479_x1 | CM000663.2/143735993-143735920 | 13 | 0.008 | 26.3 | 1 | GTCTCTGTGGCGCAATGGGTTAGCGCGTTCGGCTGTTAACCGAAAGGTTGGTGGTTCGAGCCCATCCAGGGACG |
| ex3_5681525_x1 | CM000669.2/57187832-57187767 | 13 | 0.008 | 26.3 | 1 | GGTAAAAAGGCCGGGTAAGCATTAGACTGTAAATCTAAAGACAGAGGTCAAGGCCTCTTTTTAGCA |
| ex3_5682907_x1 | CM000666.2/116297743-116297813 | 15 | 0.0009 | 30.2 | 1 | GTTAATGTAGCTTAATTATTCAAAGCAAGACACTGAAAATGTCTAGATGGATCCGCACAACCCTATAAACA |
| ex3_5682975_x1 | CM000668.2/27293892-27293965 | 26 | ###### | 52 | 1 | GGCCGGTTAGCTCAGTTGGTTAGAGCGTGCTGCTACTAATGCCAGGGTCGAGGTTTCGATCCCCGTACGGGCCT |

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| ex3_5684497_x1 | CM000663.2/237941311-237941379 | 13 | 0.008 | 26.3 | 1 | AAGGGCTTAGCTTAATTAAAGTGGTTGATTTGCATTCAATTGATGCAGAATAGAGTCTCGCAGTCCTTA |
| ex3_5685020_x1 | CM000672.2/55597818-55597888 | 13 | 0.009 | 26.3 | 1 | GTTAATGTAGCTTAATTATTTAAAGCAAGGCACTGAAAATGCCTAGATGGGTCCGCAAAACCCCATAAACA |
| ex3_5688472_x1 | CM000663.2/93516349-93516277 | 26 | ###### | 52 | 1 | GGGGGTATAGCTCAGGTGGTAGAGCATTTGACTGCAGATCAAGAGGTCCCCGGTTCAAATCCGGGTGCCCCCT |
| ex3_5689575_x1 | CM000668.2/57793617-57793545 | 17 | 0.008 | 26.3 | 1 | GGGGGATTAGCTCAAGCGGTAGAGCGCCTGCTTAGCATGCAAGAGGTAGCAGGATCGATGCCTGCATTCTCCA |
| ex3_5689670_x1 | CM000681.2/31995809-31995876 | 14 | 0.003 | 28.2 | 1 | GTTTCCATGGTGTAATGGTGAGCACTCTGGACTCTGAATCCAGAAATACATTCAAAGAATTAAGAACA |
| ex3_5690234_x1 | CM000663.2/237943730-237943656 | 20 | 0.0002 | 32.2 | 1 | GTTAAGATGGCAGAGCCCAGCAATTGCATAAAACTTAAAACTTTACAATCAGAGGTTCAACTCCTCTTCTTAACA |
| ex3_5691109_x1 | CM000676.2/88979098-88979170 | 19 | ###### | 38.2 | 1 | GGGGAATTAGCTCAAGTGGTAGAGCGCTCGCTTAGCATGCGAGAGGTAGTGGGATCGATGCCCGCATTCTCCA |
| ex3_5695351_x1 | CM000664.2/117024867-117024935 | 14 | 0.005 | 28.2 | 1 | AGAAATATGTCTGACAAAAGAATTACTTTGATAGAGTAAATAATAGAGATTAAATTCCTCTTATTTCTA |
| ex3_5696504_x1 | CM000664.2/140217492-140217560 | 15 | 0.0005 | 30.2 | 1 | GAGGGCTTAGCTTAATTAAAGTGGCTGATTTGTGTTCAATTGATGCAGAATAGAGTCTTGCAGTCCTTA |

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|---|---|---|---|---|---|---|
| ex3_5704314_x1 | CM000670.2/70237343-70237274 | 15 | 0.0007 | 30.2 | 1 | GGCAGTGTCCTAGAGGTAAAGAGTACAGGCTTAGAGTCAGACAGCGCGGGTTCAAATCCTGCTTCTGCCA |
| ex3_5707409_x1 | CM000676.2/20663285-20663192 | 17 | 0.008 | 26.3 | 1 | CCTTCGATAGCTCAGCTGGTAGAGCGGAGGACTGTAGATTGTACAGACATTTGCGGACATCCTTAGGTCGCTGGTTCGATTCCGGCTCGAAGGA |
| ex3_5707821_x1 | CM000684.2/44150657-44150743 | 24 | ###### | 48.1 | 1 | GCTCGGATGATCCTCAGTGGTCTGGGGTGCAGGCTTCAAACCTGTAGCTGTCTAGTGACAGAGTGGTTCAATTCCACCTTTGTAGGC |
| ex3_5708207_x1 | CM000668.2/27583528-27583457 | 16 | 0.0002 | 32.2 | 1 | TCCTCGTTAGTATAGTGGTGAGTGTCCCCGTCTGTCACGCGGGAGACCGGGGTTCGATTCCCCGACGGGGAG |
| ex3_5711485_x1 | CM000674.2/49817479-49817409 | 14 | 0.003 | 28.2 | 1 | TAGGATGTGGTGTGATAGGTAGCATGGAGAATTTTGGATTCTCAGGGGTAGGTTCAATTCCTATATTCTAG |
| ex3_5714527_x1 | CM000669.2/141803557-141803628 | 14 | 0.002 | 28.2 | 1 | TAGGACGTGGTGTAGTAGGTAGCATGGAGAATGTTGAATTCTCAGGGGTAGGTTCAATTCCTATAGTTCTAG |
| ex3_5717520_x1 | CM000664.2/117026500-117026435 | 14 | 0.003 | 28.2 | 1 | GGTAAAATGACTGAGTAAGCGTTAGACTGTAAATCAAAAGATGGAGGTCAAGGCCTCCTTTTACCA |
| ex3_5719633_x1 | CM000671.2/80564882-80564950 | 13 | 0.008 | 26.3 | 1 | AAGGGCTTAGCTTAATTAAAGTGGTTGATTTGTGTTCAATTGATGCAGAACAGAGTCTTGCAGTCCTTA |
| ex3_5720245_x1 | CM000670.2/66113367-66113459 | 24 | ###### | 48.1 | 1 | CCTTCGATAGCTCAGCTGGTAGAGCGGAGGACTGTAGCTACTTCCTCAGCAGGAGACATCCTTAGGTCGCTGGTTCGATTCCGGCTCGAAGGA |
| ex3_5720851_ | CM000668.2/26568 | 13 | 0.009 | 26.3 | 1 | CCTTCGATAGCTCAGTTGGTAGAGCGGAGGACTGTAGTTGGCTGTGTCCTTAGACATCCTTAGGTCGCTGGTTCGAATCCGGCTCGAAGGA |

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|---|---|---|---|---|---|---|
| x1 | 858-26568948 | | | | | |
| ex3_5721047_x1 | CM000663.2/143800111-143800041 | 16 | 0.0001 | 32.2 | 1 | GCACTGGTGGTTCAGTGGTAGGGTTCTCGCCTCACACGCGGGAGACCCGGGTTCAATTCCCGGTCAAGGCA |
| ex3_5721922_x1 | CM000663.2/248874248-248874319 | 20 | ###### | 40.1 | 1 | TCCCTGGTGGTCTAGTGGTTAGGATTCGGCGCTCTCACCGCCGCGGCCCGGGTTCGATTCCCGGTCAGGAAA |
| ex3_5727083_x1 | CM000664.2/117023841-117023915 | 13 | 0.009 | 26.3 | 1 | GTTAAGATGGCAGAGCCCAGCAATTGCATAAATCTTAAAACTTTATAATCAGAGGTTCGACTCCTCTTCTTAACA |
| ex3_5727638_x1 | KI270803.1/667733-667803 | 14 | 0.002 | 28.2 | 1 | GTTAATGTAGCTTAATTATTTAAAGCAAGACACTGAAAATGTCTAGATGGGCTTATACAGCCCCATAAACA |
| ex3_5728171_x1 | CM000685.2/3915303-3915230 | 26 | ###### | 44.1 | 1 | GGCCGGTTAGCTCAGTTGGTAAGAGCGTGGTGCTGATAACACCAAGGTCGCGGGCTCGACTCCCGCACCGGCCA |
| ex3_5728385_x1 | CM000666.2/40906798-40906726 | 13 | 0.008 | 26.3 | 1 | GACCATGTGGCCTAAGGGAAAAGACATCTCACTTTGGGTCAGAAGATTGAGGGTTCAAGTCCTTTCATGGTCA |
| ex3_5731720_x1 | CM000666.2/155461250-155461315 | 22 | ###### | 44.1 | 1 | GGTAAAGTGGCTGAATAAGCATTAGACTGTAAATCTAAAGACAGAGGTCAAGGCCTCTTTTTAGCA |
| ex3_5734442_x1 | CM000663.2/148378989-148378916 | 14 | 0.004 | 28.2 | 1 | GTCTCTGTGGCACAATCGGTTAGCGCGTTCGGCTGTTAATCTAGAGGTTGGTGGTTAGAGCCCACTGAGGGATG |

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|---|---|---|---|---|---|---|
| ex3_5735455_x1 | CM000678.2/3369813-3369884 | 13 | 0.009 | 26.3 | 1 | TAGGACTTGGTGTAATGGGTAGCACAGAGAATTTTGGATTCTCAGGGGTGGGTTCAATTCCTTTCGTCCTAG |
| ex3_5739076_x1 | CM000668.2/57870417-57870345 | 14 | 0.005 | 28.2 | 1 | GGGGAATTAGCCCAAGTGGTAGAGCGCTTGCTTAGCATGCAAGAGGTAGTGGGATCGATGCCCACATTCTCCA |
| ex3_5740339_x1 | CM000668.2/69204486-69204568 | 13 | 0.01 | 26.3 | 1 | ACTCATTTGGCTGAGTGGTTAAGGCATTGGACTTAAGATCCAATGGAGTAGTGGCTGTGTGGGTTTAAACCCCACTACTGGTA |
| ex3_5745328_x1 | CM000672.2/19747745-19747689 | 13 | 0.01 | 26.3 | 1 | TGGTGTAATAGGTAGCACAGAGAATTCTGGATTCTCAGGGGTAGGTTCAATTCCTAT |
| ex3_5746011_x1 | CM000666.2/155463900-155463826 | 13 | 0.01 | 26.3 | 1 | GTTAAGATGGCAGAGCCTGGTAATTGCATAAAACTTAAAATTTTATAATCAGAGGTTCAACTCCTCTTCTTAACA |
| ex3_5748544_x1 | CM000670.2/66113988-66114076 | 13 | 0.008 | 26.3 | 1 | CCTTCGATAGCTCAGCTGGTAGAGCGGAGGACTGTAGGCGCGCGCCCGTGGCCATCCTTAGGTCGCTGGTTCGATTCCGGCTCGAAGGA |
| ex3_5750555_x1 | CM000685.2/55178915-55178987 | 14 | 0.003 | 28.2 | 1 | TAGATTGAAGCCAGTTGATTAGGGTGTTTAGCTGTTAACGAAATTTTCGTGGGTTTGAATTCCACCAATCTAG |
| ex3_5753884_x1 | CM000678.2/3193918-3193990 | 18 | 0.004 | 28.2 | 1 | GCCCCAGTGGCCTGATGGATAAGGTACTGGCCTCCTAAGCCAGGGATTGTGGGTTCGAGTTCCACCTGGGGTA |
| ex3_5756847_x1 | CM000663.2/161621675-161621748 | 24 | ###### | 48.1 | 1 | GTTTCTGTAGCGCGATCGGTTAGCGCCTTCGGCTGTTAAACGAAAGGTTGGTGGTTCGTTCCCACCCCGGGACA |
| ex3_5757187_ | CM000667.2/26198 | 13 | 0.008 | 26.3 | 1 | GCCCGACTACCTCAGTCGGTGGAGCATGGGACTCTTCATCCCAGGGTTGTGGGTTCGAGCCCCACATTGGGCA |

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|---|---|---|---|---|---|---|
| x1 | 502-26198430 | | | | | |
| ex3_5757366_x1 | CM000679.2/64530873-64530800 | 25 | ###### | 50.1 | 1 | AGCACCATGGCTTAGCTGGTTAAAGCACCTGTCTAGTAAACAGGAGATCCTGAGTTTCAATTCCAATGGTGCCT |
| ex3_5759246_x1 | CM000668.2/28989002-28989083 | 17 | 0.008 | 26.3 | 1 | GGTAGCGTGGCCGAGCGGTCTAAGGCGCTGGATTAAGGCTCCAGTCTCTTCGGGGGCGTGGGTTCAAATCCCACCGCTGCCA |
| ex3_5759452_x1 | CM000663.2/55373438-55373506 | 20 | 0.0003 | 32.2 | 1 | GAGAAAGTCATCGTAGTTACGAAGTTGGCTTAAACCCAGTTTTGGGAGGTTCAATTCCTTCCTTTCTCT |
| ex3_5760063_x1 | GL000255.2/88972-88899 | 14 | 0.002 | 28.2 | 1 | GCCGAAATAGCTCAGTTGGGAGAGCGTTAGACCGAAGATCTTAAAGGTCCCTGGTTCAATCCCGGGTTTCGGCA |
| ex3_5762777_x1 | CM000663.2/161612718-161612789 | 13 | 0.01 | 26.3 | 1 | GCGTTGGTGGTGTAGTGGTGAGCACAGCTGCCTTTCAAGCAGTTAACGCGGGTTCGATTCCCGGGTAACGAA |
| ex3_5763390_x1 | CM000679.2/22527153-22527081 | 16 | 0.0001 | 32.2 | 1 | TAGATTGAAGCCAGTTGATTAAGGTATTTAGCTGTTAACCAAATTTTTGTGGGTTTAAGTCCCATTGATCTAG |
| ex3_5764687_x1 | CM000663.2/16872583-16872654 | 15 | 0.0008 | 30.2 | 1 | TCCCTGGTGGTCTAGTGGCTAGGATTCGGCGCTTTCACCGCCGCGGCCCGGGTTCGATTCCCGGCCAGGGAA |
| ex3_5766530_x1 | CM000671.2/92539385-92539457 | 18 | 0.006 | 28.2 | 1 | TAGATTGAAGCCAGTTGATTAGGGTATTTAGCTGTTAACTACATTTTTATGGGTTTGAGTCCCATTTATCTAG |
| ex3_5769284_x1 | CM000672.2/125819937-125819874 | 13 | 0.01 | 26.3 | 1 | GGTAAAATGGCAGAGCAAGCATTAGACTGTAAATCTAGAGACAGGTTGAGCCCTCTTTTTACCA |

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|---|---|---|---|---|---|---|
| ex3_5772834_x1 | CM000670.2/110934801-110934869 | 23 | ###### | 46.1 | 1 | GAGGGCTTAGCTTAATTAAAGTAGTTGATTTGCGTTCAATTGATGCAGAGTGGAGTCTTGCAGTCCTTA |
| ex3_5777346_x1 | CM000676.2/20677100-20677019 | 13 | 0.01 | 26.3 | 1 | GGTAGTGTGGTTGAATGGTCTAAGGCACTGAATTTAGGCTCCAGTCTCTTTGGGGACGTGGGTTTAAATCCCACTGCTGCAA |
| ex3_5779437_x1 | CM000664.2/131385560-131385631 | 13 | 0.009 | 26.3 | 1 | TAGGACGTGGTGTGATAGGTAGCACGGAGAATTTTGGATTCTCAGGGATGGGTTCAATTCCTGTAGTTCTAG |
| ex3_5780488_x1 | CM000669.2/149356723-149356665 | 22 | 0.003 | 28.2 | 1 | ATAGCTCAGTGGTAGAGCATTTAACTGTAGATCAAGAGGTCCCTGGATCAACTCTGGGT |
| ex3_5787509_x1 | CM000669.2/97141638-97141584 | 14 | 0.004 | 28.2 | 1 | GCTAGTCAGTAGAGCATGAGACTCTTAATCTCAGGGTCGTGGGTTCGAGCCCCAC |
| ex3_5794886_x1 | CM000676.2/83589111-83589041 | 13 | 0.01 | 26.3 | 1 | GTTAATGTAGCTTAATTATTCAAAGCAAGACACTGAAAATGTCTAGATGGGTTTACACAATTCCATAAACG |
| ex3_5796267_x1 | GL000256.2/52365-52293 | 13 | 0.008 | 26.3 | 1 | GGCCGCGTGGCCTAATGGATAAGGCGTCTGATTCCGGATCAGAAGATTGAGGGTTAGAGTCCCTTCGTGGTCG |
| ex3_5799641_x1 | CM000663.2/16535350-16535279 | 23 | ###### | 46.1 | 1 | TCCCTGGTGGTCTAGTGGCTAGGATTCGGCGCTTTCACCGCCGCGGCCCGGGTTCGATTCCCGGTCAGGGAA |
| ex3_5799788_x1 | CM000665.2/106902102-106902031 | 16 | 0.0003 | 32.2 | 1 | TAGGATGTGGTGTATTAGGTAGCACAGAGAATTTTGGATTCTCAGGGGTAGGTTCGATTCCTATAATTCTAC |

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| ex3_5800888_x1 | CM000668.2/28478704-28478623 | 15 | 0.0005 | 30.2 | 1 | GGTAGCGTGGCCGAGTGGTCTAAGACGCTGGATTAAGGCTCCAGTCTCTTCGGGGGCGTGGGTTTGAATCCCACCGCTGCCA |
| ex3_5801937_x1 | CM000666.2/155462873-155462805 | 13 | 0.008 | 26.3 | 1 | GGAAATATGTCAGACAAAAGAATTACTTTGATAGAGTAAACAATAGAGGTTAAAATCCTCTAATTTCTA |
| ex3_5802290_x1 | CM000665.2/17699968-17699905 | 15 | 0.0008 | 30.2 | 1 | GTATATCTCAGGGGGCAGAGCATTTGACTGCAGATCAAGAGGTCCCCGGTTGAAATCCGGGTGC |
| ex3_5810632_x1 | CM000663.2/145157157-145157229 | 16 | 0.0001 | 32.2 | 1 | GTTTCCGTAGTGTAGTGGTTATCATGTTCGCCTCACACGCGAAAGGTCCCCGGTTCGAAACTGGATGGAAACA |
| ex3_5811844_x1 | CM000663.2/237942562-237942633 | 13 | 0.009 | 26.3 | 1 | TAGGACTTGGTGTAATAGGTAGCACGAAGAGATTTGGATTCTCAGGGGTAGGTTCAATTCCTATAGTTCTGG |
| ex3_5813753_x1 | CM000683.2/8845558-8845492 | 14 | 0.004 | 28.2 | 1 | GGTAAAATGACTGAGTAGGGCATTAGACTGTACATCTAAAAACAGAGGTCAACGCCTGTTTTTACCA |
| ex3_5814596_x1 | CM000668.2/28489066-28488993 | 13 | 0.009 | 26.3 | 1 | GGCTCTATGGCTTAGTTGGTTAAAGCGCCTGTCTCGTAAACAGGAGATCCTGGGTTCGACTCCCAGTGGGGCCT |
| ex3_5817009_x1 | AC008670.6/83725-83795 | 13 | 0.009 | 26.3 | 1 | ACUUUUAAAGGAUAACAGCCAUCCGUUGGUCUUAGGCCCCAAAAAUUUUGGUGCAACUCCAAAUAAAAGUA |
| ex3_5822328_x1 | GL000253.2/73472-73400 | 13 | 0.01 | 26.3 | 1 | GCCGAGATAGCTCAGTTGGGAGAGCGTTAGACTGAAGATCTAAAGATCCCTGGTTCAATCCCGGGTTTCGGCA |
| ex3_5825943_x1 | CM000678.2/3196153- | 13 | 0.009 | 26.3 | 1 | GCCCAGCTAGCTCAGCCGGTAGAGCACAAGACTCTTAATCTCAGGGTCGTGGGTTTGAGCCCTGTGTTGAGCA |

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| ex3_5827416_x1 | CM000663.2/148048589-148048516 | 20 | 0.0004 | 32.2 | 1 | GTCTCTGTGGCGCAATCGGTTAGCGCGTTCGGCTGTTAACTGAAAGGTTAGTGGTTCGAGCCCACCCGGGGACG |
| ex3_5833284_x1 | CM000679.2/40082752-40082680 | 13 | 0.009 | 26.3 | 1 | GATTCTATAGTGTAGCAGTTATCACATCTGCTTTACATGCAGAAGGTCCTAGGTTTGAGCCGCGGTGGAACCA |
| ex3_5836127_x1 | CM000668.2/57842286-57842214 | 13 | 0.01 | 26.3 | 1 | GCCCTCTTAGTGCAGCTGGCAGCGCGTCAGTTTCATAATCTGAAAGTCCTGAGTTCAAGCCTCAGAGAGGGCA |
| ex3_5837463_x1 | CM000679.2/19598561-19598631 | 14 | 0.002 | 28.2 | 1 | GTTAATGTAGCTTAATTATTCAAAGCAAGACACTGAAAATGTCTAGATGGGTCTGCACATCCCCATAAACA |
| ex3_5837558_x1 | CM000663.2/148353561-148353632 | 15 | 0.001 | 30.2 | 1 | GGTTCCATGGGTTAATGGTGAGCACCCTGGACTCTGAATCAAGCGATCCGAGTTCAAATCTCGGTGGTACCT |
| ex3_5840339_x1 | CM000663.2/16532471-16532398 | 27 | ###### | 54 | 1 | GTCTCTGTGGTGCAATCGGTTAGCGCGTTCGGCTGTTAACCATAAGGTTGGTGGTTACAGACCACCCAGGGACG |
| ex3_5843731_x1 | CM000670.2/110934549-110934614 | 17 | ###### | 34.2 | 1 | GGTAAAATGGCTGAGTAAACATTAGACTGCAAATCTGAAGATGGAGGTTAAGGCCTCTTTTTACCA |
| ex3_5852111_x1 | CM000664.2/140221556-140221485 | 13 | 0.009 | 26.3 | 1 | GCTAAGATGGCAGAGCCCGGCAATTGCATAAAACTTAAAACTTTATAATCTGAGGTTCAACTCCTCTTAACA |

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| ex3_5852426_x1 | CM000671.2/5443301-5443364 | 17 | ###### | 34.2 | 1 | TGCACAATAGTTAAGAGCATAAACACTGGAACCAGATGTCTGGGTTCGAATCCCAGCTGTGCTA |
| ex3_5855051_x1 | CM000664.2/130272409-130272338 | 17 | 0.01 | 26.3 | 1 | TAGGACGTGGTGTGATAGGTAGCATGGAGAATTTTGGATTCTCAGGGATGGGTTCAATTCCTATAGTCCTAG |
| ex3_5861314_x1 | CM000675.2/36065681-36065610 | 13 | 0.008 | 26.3 | 1 | TAGGATGTGGTGTGACAGGTAGCATGGAGAATTTTGGATTCTCAGGGTTAGGTTCAATTCCTATAGTTCTAG |
| ex3_5864767_x1 | CM000669.2/141802320-141802388 | 15 | 0.001 | 30.2 | 1 | AAGGGTTTAGCTTAGTTAAAGTGGTTGATTTGCATTCAACTGATGCAGAATAGAGTCTGGCAGTCCTTA |
| ex3_5868643_x1 | CM000663.2/54957941-54957869 | 30 | ###### | 60 | 1 | GCCCAGCTAGCTCAGTCGGTAGAGCATGAGACTCTTAATCTCAGGGTCATGGGTTTGAGCCCCACGTTTGGTG |
| ex3_5868660_x1 | CM000669.2/149664824-149664895 | 13 | 0.008 | 26.3 | 1 | GGGGGTATAGCTCACAGGTAGAGCATTTGACTGCAGATCAAGAGGTCCCCGGTTCAAATCTGGGTGCCCCCT |
| ex3_5877017_x1 | GL000251.2/280530-280459 | 26 | ###### | 52 | 1 | GGGGGTGTAGCTCAGTGGTAGAGCGCATGCTTTGCATGTATGAGGTCCCGGGTTCGATCCCCGCCACCTCCA |
| ex3_5878576_x1 | CM000664.2/130275520-130275451 | 14 | 0.002 | 28.2 | 1 | GAGAAGGTCACAGAGGTTATGGGATTGGCTTGAAACCAGTCTGTGGGGGGTTCGATTCCCTCCTTTTTCA |
| ex3_5879275_x1 | CM000671.2/120355157-120355075 | 14 | 0.004 | 28.2 | 1 | GTCAGGGTGGCTGAGCAGTCTGAGGGGCTGCGTTCAGGTCGCAGTCTGCCCTGGAGGCGTGGGTTCGAATCCCACTCCTGAAA |

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|---|---|---|---|---|---|---|
| ex3_5881865_x1 | CM000669.2/149355746-149355675 | 16 | 0.0001 | 32.2 | 1 | GGGGGTATAGCTCAGGGGTAGAGCATTTGACTGCAGATCAAGAGGTCCCCAGTTCAAATCTGGGTGCCCCCT |
| ex3_5881928_x1 | CM000668.2/27162271-27162344 | 13 | 0.008 | 26.3 | 1 | GGCCCTGTGGCTTAGCTGGTCAAAGCGCCTGTCTAGTAAACAGGAGATCCTGGGTTCGAATCCCAGCGGGGCCT |
| ex3_5886017_x1 | CM000685.2/55178753-55178818 | 14 | 0.007 | 28.2 | 1 | GGTAAAATGGCTGGGTAAGCATTAGACTGTAAATCTAAAGACAGAGGCCAAGGCCGCTTTTTAGCA |
| ex3_5888434_x1 | CM000663.2/143831781-143831708 | 15 | 0.0009 | 30.2 | 1 | GTCTCTGTGGCGCAATCGGCTAGCGCGTTTGGCTGTTAACTAAAAAGTTGGTGGTTCGAACACACCCAGAGGCG |
| ex3_5891501_x1 | CM000663.2/237941237-237941309 | 13 | 0.008 | 26.3 | 1 | TAGATTGAAGCCAGTTGATTAGGGTATTTAGCTGTTAACTAAGTTTTCATGGGTTTGAATCCCACCGATCTAG |
| ex3_5892700_x1 | CM000673.2/103404238-103404307 | 13 | 0.008 | 26.3 | 1 | CAAGAAATTCATAGAGGTTATGGGATTGGCTAGAAACCAGTTTCAGGAGGTTCGATTCCTTCCTTTTTGG |
| ex3_5906282_x1 | CM000666.2/155462736-155462807 | 13 | 0.008 | 26.3 | 1 | TAGGACGTGGTGTGATAGGTAGCACAGAGAATTTTGGATTCTCAGGGGTAGGTTAAATTCCTATAGTACTAG |
| ex3_5909145_x1 | CM000668.2/26673362-26673434 | 19 | 0.001 | 30.2 | 1 | GGGGAATTAGCTCAAGTGGTAGAGCGCTTGCTTAGCATGCAAGAGGTAGTGGGATCAATGCCCACATTCTCCA |
| ex3_5909173_x1 | CM000679.2/22527306- | 14 | 0.004 | 28.2 | 1 | GGTAAGATGGCTGAGCAAAGCATTAGACTGTAAATCTAAAAACTCTCTTTTTACCA |

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|---|---|---|---|---|---|---|
| | 22527251 | | | | | |
| ex3_5910134_x1 | CM000685.2/102773201-102773275 | 13 | 0.008 | 26.3 | 1 | GTTAAGATGGTAGAGCCTGGTAATTGCATAAAACTTGAAATTTTATAATCAGAGGTTCAATTACTCTTCTTTTTA |
| ex3_5915573_x1 | CM000669.2/149406135-149406064 | 13 | 0.008 | 26.3 | 1 | GGGGGTATAGCTGAGGAGTAAACCATTTGGCTGCAGATCAAGTGGTCCCTGGTTCAAATATGGGTGCCCTCT |
| ex3_5917200_x1 | CM000671.2/92539198-92539263 | 13 | 0.009 | 26.3 | 1 | GGTAAAATGGCTGAGTAAAGCATTAGACTGTAAATCTAAGGACAGAGGCTAAACCTCTTTTTACCA |
| ex3_5922691_x1 | CM000664.2/131385697-131385629 | 15 | 0.0006 | 30.2 | 1 | AGAAATATGTCTGACAAAAGAATTACTTTGACAGAGTAAACAACAGAGGTTAAAATCCTCATATTTCTA |
| ex3_5922886_x1 | CM000668.2/26305570-26305493 | 14 | 0.003 | 28.2 | 1 | GAGGCCTGGCCGAGTGGTTAAGGCGATGGACTGCTAATCCATTGTGCTCTGCACGCGTGGGTTCGAATCCCATCCTCG |
| ex3_5924225_x1 | CM000668.2/26721065-26720992 | 18 | 0.003 | 28.2 | 1 | GGCCGGTTAGCTCAGTTGGTCAGAGCGTGGTGCTAATAACGCCAAGGTCGCGGGTTCGATCCCCGTACGGGCCA |
| ex3_5928764_x1 | CM000671.2/74903145-74903074 | 15 | 0.001 | 30.2 | 1 | TCCTCGTTAGTATGGTGGTGAGTATCCCTGCCTGTCACGCGGGAGACCGGGGTTCGATTCCCCAACGGGGAG |
| ex3_5930597_x1 | CM000672.2/69595484-69595416 | 14 | 0.004 | 28.2 | 1 | AGAAATATGTCCGATAAAAGAGTTACATTGATAGAATAAATAATAGAGGTTTAAATCCTCTTATTTCTA |
| ex3_5931472_x1 | CM000663.2/145129239-14512931 | 25 | ###### | 50.1 | 1 | GTCTCTGTGGCGCAATCGGCTAGCGCGTTTGGCTGTTAACTAAAAGGTTGGCGGTTCGAACCCACCCAGAGGCG |

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| ex3_5937476_x1 | CM000663.2/121048505-121048432 | 14 | 0.002 | 28.2 | 1 | GTCTCTGTGGCGCAATCGGCTAGCGCTTTTGGCTGTTAACTAAAAGGTTGGTGGTTTGAACCCACCCAGAGGCG |
| ex3_5941921_x1 | CM000670.2/46827965-46828036 | 14 | 0.004 | 28.2 | 1 | TACGACATGGTGTAATAAGTAGCACAGAGAATTTTGGGTTCTCAGGGGTAGGTTCAATTCCCATAGTTCTAG |
| ex3_5942220_x1 | CM000678.2/10721693-10721625 | 13 | 0.009 | 26.3 | 1 | GTAAATATAGTTTAACCAAAACATTAGACTATGAATCTAACAATAGAAGCCCGCAACTTCTTATCTACC |
| ex3_5942967_x1 | GL000254.2/29263-29190 | 14 | 0.004 | 28.2 | 1 | GCTGAAATAGCTCAGTTGGGAGAGCGTTAGACTGAAGATCTTAAAGTTCCCTGGTTCAACCCTGGGTTTCAGCC |
| ex3_5955317_x1 | CM000672.2/36434555-36434485 | 14 | 0.002 | 28.2 | 1 | ACTTTTAAAGTATAAGAGCGACCCATTGGTCTTAGGAACCAAAAATATTGGTGCAACTCCAAATAAAAGTA |
| ex3_5960246_x1 | CM000663.2/165596913-165596985 | 14 | 0.003 | 28.2 | 1 | GTCTAGCTAGATCAGTTGGTAGAGCATAAGACTCTTAATCTCAGGGTCATGGGTTTGAGCCCTACGTTGGGCG |
| ex3_5968528_x1 | CM000673.2/54759373-54759316 | 14 | 0.003 | 28.2 | 1 | TAGCTTAGTTGATGAAGCGTGAGACTCTTAATCTCAGGGTAGTGGGTTCAAGCCCCAC |
| ex3_5974922_x1 | CM000670.2/46828102-46828034 | 13 | 0.009 | 26.3 | 1 | GGAAATATGTTCAACAAAAGAATTACTTTGATAGACTAAACAATGGAGGTTAAAATCCTCTTATTTCTA |
| ex3_5982080_x1 | CM000667.2/132180779-132180838 | 19 | 0.002 | 30.2 | 1 | AGGGGTATAGCTCAGTGGTAGAGCATTTGACTGCAGATCAAAAAAAAAAGTTTCCCCCG |

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| ex3_5983262_x1 | CM000668.2/156547986-156547912 | 13 | 0.01 | 26.3 | 1 | GTTAAGACGGCAGAGCCCGGCAATTGCGTAAAATTTACAACTTTATGGGCAGAGGTTCAATTCCTCTTCTTAACA |
| ex3_5995369_x1 | CM000668.2/27631421-27631514 | 14 | 0.004 | 28.2 | 1 | GCTCCAGTGGCGCAATCGGTTAGCGCGCGGTACTTATACAACAGTATATGTGCGGGTGATGCCGAGGTTGTGAGTTCGAGCCTCACCTGGAGCA |
| ex3_5997393_x1 | CM000669.2/149608376-149608447 | 14 | 0.002 | 28.2 | 1 | GGGTGTATGGCTCAGGGGTAGAGAATTTGACTAGAGATCAAGAGGTCCCTGGTTCAAATCCAGGTGCCCCCT |
| ex3_6002730_x1 | CM000685.2/55181396-55181322 | 14 | 0.004 | 28.2 | 1 | GTTAAGATGGCAGAGCCCGGCAATTGCATAAGACTTAAAACTTTATAATCAGAGGTTCAACTCCTCTCATTAACA |
| ex3_6009060_x1 | CM000668.2/27209849-27209930 | 30 | ###### | 60 | 1 | GCTGTGATGGCCGAGTGGTTAAGGCGTTGGACTCGAAATCCAATGGGGTCTCCCCGCGCAGGTTCAAATCCTGCTCACAGCG |
| ex3_6018723_x1 | CM000682.2/30746051-30746117 | 13 | 0.009 | 26.3 | 1 | GGTAAAATGACTGAGTAGGGCATTAGACTGTACATCTAAAAACAGAGGTCAAGTCCTGTTTTTACCA |
| ex3_6028422_x1 | CM000664.2/131384241-131384313 | 18 | 0.003 | 28.2 | 1 | TAGATTGAAGCCAGTTGATTAGGGTGTTTAGCTGTTAATTAAATTTTCGTGGGTTTAAGTCCCGTCAATCTAG |
| ex3_6041109_x1 | CM000668.2/27532208-27532289 | 15 | 0.001 | 30.2 | 1 | GTAGTCGTGGCCGAGTGGTTAAGGCGATGGACTAGAAATCCATTGGGGTTTCCCCACGCAGGTTCGAATCCTGCCGACTACG |
| ex3_6049787_x1 | CM000663.2/149708730-149708660 | 15 | 0.0006 | 30.2 | 1 | GCAGTGGTGGTTCAGTGGTAGGGTTCTCGCCTCACACGCGGGAGACCCGGGTTCAATTCCCGGTCAAAGCA |

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|---|---|---|---|---|---|---|
| ex3_6057824_x1 | CM000663.2/237941074-237941139 | 14 | 0.002 | 28.2 | 1 | GGTAAAATGACTGAGTAAGCATTAGACTATAAATCTAAAGACAGAGGTCAAGACCTCTTTTTACCA |
| ex3_6086981_x1 | CM000669.2/149584725-149584796 | 21 | ###### | 34.2 | 1 | GGGGGTATAGCTCAGGGGTAGAGCATTTGACTGCAGATCAAGAGGTCTCTGGTTCAAATCCAGGTGCCCCCT |
| ex3_6090119_x1 | CM000669.2/64110164-64110229 | 13 | 0.008 | 26.3 | 1 | GGTAAAATGGCTGAGTAAGCATTAGACTGTAAATCTAAAGACAGAGGTCAAGGCCTCTTTTTTCCT |
| ex3_6090541_x1 | KI270879.1/243806-243735 | 13 | 0.01 | 26.3 | 1 | TAGGATGTGGTGTATTATGTAGCACGGAGAATTTTGGATTCTCATGGGTAGGTTCAATTCCTGTAATTCTAG |
| ex3_6103961_x1 | CM000674.2/27690373-27690445 | 14 | 0.002 | 28.2 | 1 | ACCCAGATAGCTCAGTCAGTAGAGCATCAGACTTTTAATCTGAGGGTCCAAGGTTCATGTCCCTTTTTGGGTG |
| ex3_6116175_x1 | CM000670.2/33015199-33015128 | 14 | 0.005 | 28.2 | 1 | TAGTACATAGTGTAATAGGTAGCACAGATAATTTTGGATTCTCAGGGGTAGGTTCAATTCTTATAGTTCTAG |
| ex3_6141787_x1 | CM000664.2/155263939-155264011 | 14 | 0.004 | 28.2 | 1 | TAGATTGAAGCCACTTGATTAGGGTATTTAGCTGTTAACTAAATTTTTGTGGGTTTAAGTCCCGTTAATCTAG |
| ex3_6143180_x1 | CM000663.2/16875463-16875536 | 13 | 0.01 | 26.3 | 1 | GTCTCTGTGGTGCAATCGGTTAGCGCGTTCGGCTGTTAACCATAAGGTTGGTGGTTAGAGACCACCCAGGGACG |
| ex3_6150395_x1 | CM000668.2/26687257-26687329 | 21 | ###### | 42.1 | 1 | GGGGAATTAGCTCAAGTGGTAGAGCGCTTGCTTAGCACGCAAGAGGTAGTGGGATCGATGCCCACATTCTCCA |
| ex3_6166629_ | CM000669.2/64110 | 14 | 0.002 | 28.2 | 1 | TAGATTGAAGCCAGTTGATTAGGGTGTTTAGCTGTTAACTAAATTTTCGTGGTTTAAGTCCCACCAATCTAG |

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|---|---|---|---|---|---|---|
| x1 | 327-64110398 | | | | | |
| ex3_6184109_x1 | CM000671.2/78741572-78741640 | 14 | 0.005 | 28.2 | 1 | AAGAGCTTAGCTTAATTAAAGTGGTTGATTTGTGTTCAATTGATGCAGAATAGAGTCTTGCAGTCCTTA |
| ex3_6210314_x1 | CM000669.2/57194203-57194273 | 13 | 0.008 | 26.3 | 1 | AGTTGTAGAGGATAAGAGCTATCCATTGGTCTCAGGAACCAAAAATATTGGTGCAACTCCAAATACAAGTA |
| ex3_6213134_x1 | CM000678.2/3369950-3369882 | 15 | 0.001 | 30.2 | 1 | GGAAATATGTCCGACACAAGAATTACTTTGATAGAGTAAACAATAAAGGTTTAAATCCTCTCATTTCTA |
| ex3_6226588_x1 | GL000253.2/68435-68365 | 18 | 0.003 | 28.2 | 1 | GGGGGTGTAGCTCAGTGGTAGAGCGCATGCTTTGCATGTATGAGGCCTCGGTTCGATCCCCGACACCTCCA |
| ex3_6235967_x1 | GL000251.2/238412-238484 | 16 | 0.0002 | 32.2 | 1 | GCCTGGATAGCTCAGTTGGTAGAACATCAGACTTTTAATCTGACGATGCAGGGTTCAAGTCCCTGTTCAGGCG |
| ex3_6237537_x1 | CM000678.2/70778281-70778211 | 41 | ###### | 73.8 | 1 | GCATTGGTGGTTCAGTGGTAGAATTCTCGCCTGCCACGCGGGAGGCCCGGGTTTGATTCCCGGCCAGTGCA |
| ex3_6253735_x1 | CM000668.2/27605745-27605638 | 13 | 0.008 | 26.3 | 1 | GTCAGGATGGCCGAGTGGTCTAAGGCGCCAGACTCAAGCTTACTGCTTCCTGTGTTCGGGTCTTCTGGTCTCCGTATGGAGGCGTGGGTTCGAATCCCACTTCTGACA |
| ex3_6259611_x1 | CM000663.2/161540241-161540314 | 35 | ###### | 69.9 | 1 | GTCTCTGTGGCGCAATCGGTTAGCGCGTTCGGCTGTTAACCGAAAGGTTGGTGGTTCGATCCCACCCAGGGACG |
| ex3_6261570_x1 | CM000663.2/149558493-149558419 | 13 | 0.008 | 26.3 | 1 | GTCTCTGTGGCGCAATTGGTTAGCGCGTTCGGTTGTTAACCGTAAAGGTTGGTGGTTCGAGCCCACCCAGGAACG |

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|---|---|---|---|---|---|---|
| ex3_6267923_x1 | CM000668.2/27576067-27576139 | 14 | 0.002 | 28.2 | 1 | ACCTGGGTAGCTCAGTAGGTAGAACATCAGACTTTTAATCTGAGGGTCTAGGGTTCAAGTCCCTGTCCAGGCG |
| ex3_6291923_x1 | CM000664.2/211778006-211777938 | 13 | 0.008 | 26.3 | 1 | AAGGGCTTAGCTTAATTAAAGTGGTTTATTTGCGTTCAACTGATGCAGAATAGAGTCTTGCAGCCCTTA |
| ex3_6326101_x1 | CM000669.2/57186344-57186273 | 16 | 0.0003 | 32.2 | 1 | TAGGACGTGGTGTGATAGGTAGCATGGGGAATTTTGGATTCTCAGGGGTGGGTTCAATTCCTATAGTTCTAG |
| ex3_6356549_x1 | CM000673.2/103411122-103411052 | 14 | 0.006 | 28.2 | 1 | GTTAATGTAGCTTAATTATTTAAAGGAAGACACTGAAAATGTCTAGATGGGTTTGCACAACCCCATAAACA |

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| Qseqid | Sseqid | NT | Evalue | Bitscore | Number | Sequence |
|---|---|---|---|---|---|---|
| co3_1318984_x14055 | AC092686.3/29631-29561 | 30 | ###### | 60 | 14055 | GCAUUGGUGGUUCAGUGGUAGAAUUCUCGCCUGCCACGCGGGAGGCCCGGGUUCGAUUCCCGGCCAAUGCA |
| co3_1401522_x13170 | GL000253.2/247759-247830 | 30 | ###### | 60 | 13170 | TCCCTGGTGGTCTAGTGGTTAGGATTCGGCGCTCTCACCGCCGCGGCCCGGGTTCGATTCCCGGTCAGGGAA |
| co3_1479099_x12667 | AF347001.1/16015-15948 | 20 | ###### | 40.1 | 12667 | CAGAGAAUAGUUUAAAUUAGAAUCUUAGCUUUGGGUGCUAAUGGUGGAGUUAAAGACUUUUUCUCUGA |
| co3_1856849_x8797 | ENST00000387461.2 | 17 | ###### | 34.2 | 8797 | CAGAGAATAGTTTAAATTAGAATCTTAGCTTTGGGTGCTAATGGTGGAGTTAAAGACTTT |
| co3_2132552_x6512 | AF347015.1/1604-1672 | 17 | ###### | 34.2 | 6512 | CAGAGUGUAGCUUAACACAAAGCACCCAACUUACACUUAGGAGAUUUCAACUUAACUUGACCGCUCUGA |
| co3_2407413_x5455 | AC093311.2/140036-139968 | 31 | ###### | 61.9 | 5455 | GUUCUUGUAGUUGAAAUACAACGAUGGUUUUUCAUAUCAUUGGUCGUGGUUGUAGUCCGUGCGAGAAUA |
| co3_3236727_x3090 | ENST00000387441.1 | 22 | ###### | 44.1 | 3090 | GTAAATATAGTTTAACCAAAACATCAGATTGTGAATCTGACAACAGAGGCTTACGACCCC |
| co3_3242906_x3085 | ENST00000387342.1 | 17 | ###### | 34.2 | 3085 | CAGAGTGTAGCTTAACACAAAGCACCCAACTTACACTTAGGAGATTTCAACTTAACTTGA |
| co3_3551147_x2550 | CM000678.2/3191501-3191573 | 40 | ###### | 79.8 | 2550 | GCCCGGCTAGCTCAGTCGGTAGAGCATGGGACTCTTAATCTCAGGGTCGTGGGTTCGAGCCCCACGTTGGGCG |

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|---|---|---|---|---|---|---|
| co3_3599156_x2502 | ENST00000387449.1 | 25 | ###### | 50.1 | 2502 | GAGAAAGCTCACAAGAACTGCTAACTCATGCCCCCATGTCTAACAACATGGCTTTCTCA |
| co3_3614107_x2478 | CM000663.2/148302805-148302734 | 26 | ###### | 52 | 2478 | GCCGTGATCGTATAGTGGTTAGTACTCTGCGTTGTGGCCGCAGCAACCTCGGTTCGAATCCGAGTCACGGCA |
| co3_4374155_x1469 | GL000252.2/13342-13414 | 34 | ###### | 36.2 | 1469 | GCCTGGATAGCTCAGTTGGTAGAACATCAGACTTTTAATCTGACGGTGCAGGGTTCAAGTCCCTGTTCAGGCG |
| co3_4465012_x1366 | ENST00000387421.1 | 20 | ###### | 40.1 | 1366 | CACTGTAAAGCTAACTTAGCATTAACCTTTTAAGTTAAAGATTAAGAGAACCAACACCTC |
| co3_4689009_x1180 | AF382005.1/581-651 | 30 | ###### | 60 | 1180 | GUUUAUGUAGCUUACCUCCUCAAAGCAAUACACUGAAAAUGUUUAGACGGGCUCACAUCACCCCAUAAACA |
| co3_4738807_x1138 | AC007298.17/145366-145295 | 38 | ###### | 75.8 | 1138 | UCCUCGUUAGUAUAGUGGUGAGUAUCCCCGCCUGUCACGCGGGAGACCGGGGUUCGAUUCCCCGACGGGGAG |
| co3_4868309_x1036 | CM000663.2/145459658-145459729 | 32 | ###### | 63.9 | 1036 | GGTTCCATGGTGTAATGGTGAGCACTCTGGACTCTGAATCCAGCGATCCGAGTTCGAGTCTCGGTGGAACCT |
| co3_4979218_x963 | ENST00000387377.1 | 14 | ###### | 28.2 | 963 | AGTAAGGTCAGCTAAATAAGCTATCGGGCCCATACCCCGAAAATGTTGGTTATACCCTTC |
| co3_5314949_x769 | CM000666.2/5488322-5488403 | 23 | ###### | 30.2 | 769 | GATTTTATGGTGTAATGGTGAGCACTCTGGACTTGGAATCCAGAATTAACAAACAGAACATCCTGCAATTTTATTAAGAGCA |
| co3_5458692_x705 | CM000664.2/202614781-202614713 | 13 | 0.008 | 26.3 | 705 | AAGAGAGTCATAGAAGTTATGGGATTGGCTTGAAACCAATTTCTGGAAGTTCAATTCCTTCCTTTCTTG |

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|---|---|---|---|---|---|---|
| co3_5626227_x635 | AC006449.19/196857-196784 | 23 | 1E-08 | 46.1 | 635 | GUCUCUGUGGCGCAAUCGGUUAGCGCGUUCGGCUGUUAACCGAAAGGUUGGUGGUUCGAGCCCACCCAGGGACG |
| co3_6564137_x325 | CM000668.2/28658308-28658237 | 20 | ###### | 40.1 | 325 | GGGGATGTAGCTCAGTGGTAGAGCGCATGCTTAGCATGCATGAGGTCCCGGGTTCGATCCCCAGCATCTCCA |
| co3_6585760_x320 | CM000685.2/18674981-18674909 | 35 | ###### | 69.9 | 320 | GGTTCCATAGTGTAGTGGTTATCACGTCTGCTTTACACGCAGAAGGTCCTGGGTTCGAGCCCCAGTGGAACCA |
| co3_6655422_x303 | CM000678.2/10721693-10721625 | 26 | ###### | 28.2 | 303 | GTAAATATAGTTTAACCAAAACATTAGACTATGAATCTAACAATAGAAGCCCGCAACTTCTTATCTACC |
| co3_6777393_x274 | AC008443.10/43006-42934 | 23 | ###### | 46.1 | 274 | GUUUCCGUAGUGUAGUGGUUAUCACGUUCGCCUCACACGCGAAAGGUCCCCGGUUCGAAACCGGGCGGAAACA |
| co3_6815520_x266 | CM000681.2/41242309-41242237 | 29 | ###### | 34.2 | 266 | GCCAGGATAGTTCAGGTGGTAGAGCATCAGACTTTTAACCTGAGGGTTCAGGGTTCAAGTCTCTGTTTGGGCG |
| co3_6844961_x260 | CM000669.2/149691252-149691181 | 24 | ###### | 32.2 | 260 | GGGGATATAGCTCAGGGGTAGAGCATTTGACTGCAGATCAAGAGGTCCCCGGTTCAAATCCGGGTGCCCCCC |
| co3_6894318_x249 | CM000663.2/161612718-161612789 | 16 | 0.0003 | 32.2 | 249 | GCGTTGGTGGTGTAGTGGTGAGCACAGCTGCCTTTCAAGCAGTTAACGCGGGTTCGATTCCCGGGTAACGAA |
| co3_6928378_x242 | ENST00000387409.1 | 32 | ###### | 63.9 | 242 | GGTAAAATGGCTGAGTGAAGCATTGGACTGTAAATCTAAAGACAGGGGTTAGGCCTCTTT |
| co3_6997454_x228 | CM000681.2/45478687-45478602 | 22 | ###### | 44.1 | 228 | GCCCGGATGATCCTCAGTGGTCTGGGGTGCAGGCTTCAAACCTGTAGCTGTCTAGCGACAGAGTGGTTCAATTCCACCTTTCGGGC |

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|---|---|---|---|---|---|---|
| co3_7196236_x190 | AL163195.5/3702-3774 | 18 | ###### | 28.2 | 190 | GGCUCCAUAGCUCAGGGGUUAGAGCACUGGUCUUGUAAACCAGGGGUCGCGAGUUCAAAUCUCGCUGGGGCCU |
| co3_7254117_x181 | AF346992.1/15890-15955 | 29 | ###### | 58 | 181 | GUCCUUGUAGUAUAAACUAAUACACCAGUCUUGUAAACCGGAGAUGAAAACCUUUUUCCAAGGACA |
| co3_7393921_x159 | AF381996.2/4265-4333 | 17 | ###### | 34.2 | 159 | AGAAAUAUGUCUGAUAAAAGAGUUACUUUGAUAGAGUAAAUAAUAGGAGCUUAAACCCCCUUAUUUCUA |
| co3_7397717_x158 | AF347015.1/5827-5762 | 17 | ###### | 34.2 | 158 | AGCUCCGAGGUGAUUUUCAUAUUGAAUUGCAAAUUCGAAGAAGCAGCUUCAAACCUGCCGGGGCUU |
| co3_7427415_x153 | ENST00000387365.1 | 17 | ###### | 34.2 | 153 | AGAAATATGTCTGATAAAAGAGTTACTTTGATAGAGTAAATAATAGGAGCTTAAACCCCC |
| co3_7436865_x152 | CM000678.2/3369813-3369884 | 18 | ###### | 28.2 | 152 | TAGGACTTGGTGTAATGGGTAGCACAGAGAATTTTGGATTCTCAGGGGTGGGTTCAATTCCTTTCGTCCTAG |
| co3_7455341_x149 | CM000669.2/139340700-139340772 | 21 | ###### | 42.1 | 149 | GCCCCAGTGGCCTAATGGATAAGGCATTGGCCTCCTAAGCCAGGGATTGTGGGTTCGAGTCCCATCTGGGGTG |
| co3_7461860_x148 | ENST00000387405.1 | 14 | ###### | 28.2 | 148 | AGCTCCGAGGTGATTTTCATATTGAATTGCAAATTCGAAGAAGCAGCTTCAAACCTGCCG |
| co3_7476777_x145 | CM000668.2/27777885-27777956 | 21 | ###### | 42.1 | 145 | AGCAGAGTGGCGCAGCGGAAGCGTGCTGGGCCCATAACCCAGAGGTCGATGGATCTAAACCATCCTCTGCTA |
| co3_7510108_x140 | GL000256.2/253971-254043 | 22 | ###### | 44.1 | 140 | GCCTCCTTAGCGCAGTAGGCAGCGCGTCAGTCTCATAATCTGAAGGTCCTGAGTTCGAACCTCAGAGGGGGCA |

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|---|---|---|---|---|---|---|
| co3_7560718_x133 | CM000663.2/150045476-150045406 | 20 | ###### | 32.2 | 133 | GGGGGTGTAGATCAGTGGTAGGGCGCACGCTTAGCATGCATGAGGCCCTGGGTCAATCCCCAGCACCTCCA |
| co3_7661465_x120 | ENST00000387456.1 | 37 | ###### | 73.8 | 120 | ACTTTTAAAGGATAACAGCTATCCATTGGTCTTAGGCCCCAAAAATTTTGGTGCAACTCC |
| co3_7754098_x108 | AF346999.1/4402-4331 | 32 | ###### | 63.9 | 108 | UAGGAUGGGGUGUGAUAGGUGGCACGGAGAAUUUUGGAUUCUCAGGGAUGGGUUCGAUUCUCAUAGUCCUAG |
| co3_7787681_x104 | CM000663.2/161440242-161440171 | 19 | ###### | 30.2 | 104 | GCGTTGGTGGTATAGTGGTGAGCATAGTTGCCTTCCAAGCAGTTGACCCGGGCTCGATTCCCGCCCAACGCA |
| co3_7840547_x97 | CM000663.2/93847573-93847657 | 34 | ###### | 67.9 | 97 | GGCTCCGTGGCGCAATGGATAGCGCATTGGACTTCTAGAGGCTGAAGGCATTCAAAGGTTCCGGGTTCGAGTCCCGGCGGAGTCG |
| co3_7912120_x89 | AC005329.1/7043-6971 | 22 | ###### | 44.1 | 89 | GCCGAAAUAGCUCAGUUGGGAGAGCGUUAGACUGAAGAUCUAAAGGUCCCUGGUUCGAUCCCGGGUUUCGGCA |
| co3_7916926_x89 | ENST00000386347.1 | 27 | ###### | 54 | 89 | GTTAAGATGGCAGAGCCCGGTAATCGCATAAAACTTAAAACTTTACAGTCAGAGGTTCAA |
| co3_7956183_x85 | AC008443.10/8240-8321 | 20 | ###### | 40.1 | 85 | GGUAGCGUGGCCGAGCGGUCUAAGGCGCUGGAUUAAGGCUCCAGUCUCUUCGGGGGCGUGGGUUCGAAUCCCACCGCUGCCA |
| co3_7970187_x83 | CM000678.2/10721565-10721495 | 38 | ###### | 28.2 | 83 | ACTTTTAAAGGATAAGAGTTATCCATTGGTCTCAGGAACCAAAAACATCGGTGCAACTCCAAATAAAAGTA |

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|---|---|---|---|---|---|---|
| co3_8023632_x78 | CM000676.2/20683273-20683361 | 15 | ###### | 30.2 | 78 | CCTTCGATAGCTCAGCTGGTAGAGCGGAGGACTGTAGTACTTAATGTGTGGTCATCCTTAGGTCGCTGGTTCGATTCCGGCTCGAAGGA |
| co3_8107580_x70 | AL352978.6/119697-119770 | 22 | ###### | 36.2 | 70 | GGCCGGUUAGCUCAGUUGGUUAGAGCGUGGUGCUAAUAACGCCAAGGUCGCGGGUUCGAUCCCCGUACGGGCCA |
| co3_8121815_x69 | GL000251.2/124019-123948 | 24 | ###### | 32.2 | 69 | GTGGATGTAGTTTAGTGGTAGAACGCGCGCTTTGCATGTATGAGGTCCCGGTTTCGATCCCTGGCGTTTCCA |
| co3_8183501_x63 | CM000676.2/20677100-20677019 | 15 | ###### | 30.2 | 63 | GGTAGTGTGGTTGAATGGTCTAAGGCACTGAATTTAGGCTCCAGTCTCTTTGGGGACGTGGGTTTAAATCCCACTGCTGCAA |
| co3_8220520_x60 | CM000670.2/67585468-67585398 | 23 | ###### | 46.1 | 60 | ACTTTTAAAGGATGAGAGTCATCCGTTGGTCTTAAGAACCAAAAACACTGGTGCAACTCCAAATAAAAGTA |
| co3_8221300_x60 | CM000670.2/133755832-133755767 | 16 | ###### | 32.2 | 60 | GGTAAAATGACTGAATAAGCCTTAGACTGTAAATCTGAAGACAGAGGTCAAGGCCTCTTTTTACCA |
| co3_8245172_x58 | ENST00000387439.1 | 21 | ###### | 42.1 | 58 | TGGTATATAGTTTAAACAAAACGAATGATTTCGACTCATTAAATTATGATAATCATATTT |
| co3_8256111_x57 | AC018638.5/4694-4623 | 22 | ###### | 44.1 | 57 | GGCUCGUUGGUCUAGGGGUAUGAUUCUCGCUUAGGGUGCGAGAGGUCCCGGGUUCAAAUCCCGGACGAGCCC |
| co3_8270840_x56 | CM000664.2/223321669-223321597 | 26 | ###### | 28.2 | 56 | GTTGGGGTAACTCAGTTGGTAGAGTAGCAGACTTTTCATCTGAGGGTCCAGGGTTTAAGTCCATGTCCAGGCA |
| co3_8296100_x54 | CM000674.2/49817479-49817409 | 27 | 3E-06 | 38.2 | 54 | TAGGATGTGGTGTGATAGGTAGCATGGAGAATTTTGGATTCTCAGGGGTAGGTTCAATTCCTATATTCTAG |

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|---|---|---|---|---|---|---|
| co3_8355011_x50 | GL000252.2/8616-8544 | 18 | 0.002 | 28.2 | 50 | GGCCGCGTGGCCTAATGGATAAGGCGTCTGATTCCGGATCAGAAGATTGAGGGTTCGAGTCCCTTCGTGGTCG |
| co3_8373742_x49 | CM000674.2/98504252-98504323 | 19 | ###### | 38.2 | 49 | GACCTCGTGGCGCAACGGTAGCGCGTCTGACTCCAGATCAGAAGGCTGCGTGTTCGAATCACGTCGGGGTCA |
| co3_8452784_x43 | CM000676.2/72962971-72963042 | 21 | ###### | 34.2 | 43 | GGGGGTATAGCTCAGGGGTAGAGCATTTGACTGCAGATCAAGAGGTCCCCGGTTCAAATCCGGGTGCCCCCT |
| co3_8465283_x42 | CM000666.2/155461250-155461315 | 13 | ###### | 26.3 | 42 | GGTAAAGTGGCTGAATAAGCATTAGACTGTAAATCTAAAGACAGAGGTCAAGGCCTCTTTTTAGCA |
| co3_8470155_x42 | CM000679.2/8139525-8139452 | 34 | ###### | 67.9 | 42 | GGCGCCGTGGCTTAGCTGGTTAAAGCGCCTGTCTAGTAAACAGGAGATCCTGGGTTCGAATCCCAGCGGTGCCT |
| co3_8478975_x42 | CM000681.2/39412260-39412168 | 21 | ###### | 42.1 | 42 | GCTCCAGTGGCGCAATCGGTTAGCGCGCGGTACTTATATGACAGTGCGAGCGGAGCAATGCCGAGGTTGTGAGTTCGATCCTCACCTGGAGCA |
| co3_8483506_x41 | CM000665.2/45689071-45688999 | 15 | ###### | 30.2 | 41 | GGGCCAGTGGCGCAATGGATAACGCGTCTGACTACGGATCAGAAGATTCTAGGTTCGACTCCTGGCTGGCTCG |
| co3_8529402_x38 | CM000668.2/26299677-26299749 | 14 | ###### | 28.2 | 38 | GACCACGTGGCCTAATGGATAAGGCGTCTGACTTCGGATCAGAAGATTGAGGGTTCGAATCCCTTCGTGGTTA |
| co3_8554789_x37 | CM000676.2/20657557-20657464 | 17 | ###### | 26.3 | 37 | CCTTCGATAGCTCAGCTGGTAGAGCGGAGGACTGTAGATTGTATAGACATTTGCGGACATCCTTAGGTCGCTGGTTCGATTCCAGCTCGAAGGA |
| co3_8573954_x36 | CM000669.2/67399631-67399560 | 16 | ###### | 32.2 | 36 | GGCCTCATGGTGCAACAGTAGTGTGTCTGACTCCAGATCAGAAGGTTGTATGTTCAAATCACGTAGGGGTCA |

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|---|---|---|---|---|---|---|
| co3_8578184_x35 | J01415.2/7514-7446 | 21 | ###### | 42.1 | 35 | GAAAAAGTCATGGAGGCCATGGGGTTGGCTTGAAACCAGCTTTGGGGGGTTCGATTCCTTCCTTTTTTG |
| co3_8586024_x35 | CM000668.2/27293892-27293965 | 33 | ###### | 42.1 | 35 | GGCCGGTTAGCTCAGTTGGTTAGAGCGTGCTGCTACTAATGCCAGGGTCGAGGTTTCGATCCCCGTACGGGCCT |
| co3_8586444_x35 | CM000686.2/8371587-8371660 | 13 | ###### | 26.3 | 35 | GTTAAGATGGCAGAACCTGGCAGTTTCATAAAACTTAAAGTTTATAATCAGAGGTTCAACTCCTCTTCTTAACA |
| co3_8640815_x32 | CM000673.2/59551755-59551837 | 24 | ###### | 40.1 | 32 | ACCAGAATGGCCGAGTGGTTAAGGCGTTGGACTTAAGATCCAATGGATTCATATCCGCGTGGGTTCGAACCCCACTTCTGGTA |
| co3_8642255_x32 | ENST00000387392.1 | 30 | ###### | 60 | 32 | AAGGGCTTAGCTTAATTAAAGTGGCTGATTTGCGTTCAGTTGATGCAGAGTGGGGTTTTG |
| co3_8647770_x31 | ENST00000387419.1 | 20 | ###### | 40.1 | 31 | AAGGTATTAGAAAAACCATTTCATAACTTTGTCAAAGTTAAATTATAGGCTAAATCCTAT |
| co3_8649878_x31 | CM000664.2/45710374-45710302 | 14 | ###### | 28.2 | 31 | GGCTGTGTACCTCAGTGGGCAAGGGTATGGACTTTGAAGCCAGACTATTTGGGTTCAAATCCCAGCTTGGCCT |
| co3_8650064_x31 | GL000250.2/77722-77651 | 30 | ###### | 44.1 | 31 | GGGGGTATAGCTCAGCGGTAGAGCGCGTGCTTAGCATGCACGAGGTCCTGGGTTCAATCCCCAATACCTCCA |
| co3_8671683_x30 | CM000665.2/106894213-106894143 | 14 | ###### | 28.2 | 30 | ACTTTTAAAGGATAGGAGTTATCTATTGATCTTAGGAACCAAAAACATTGGTTCAACTCCAAGTAAAGGTA |
| co3_8684212_x29 | CM000668.2/27664766-27664841 | 27 | ###### | 30.2 | 29 | GCCGAAATAGCTCAATTGGGAGAGTGTTAGACTGAAGATCTTCTGCAGGTCTCTGGTTCAATTCCGGGTTTCGACA |

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|---|---|---|---|---|---|---|
| co3_8720628_x28 | CM000663.2/149558493-149558419 | 28 | ###### | 56 | 28 | GTCTCTGTGGCGCAATTGGTTAGCGCGTTCGGTTGTTAACCGTAAAGGTTGGTGGTTCGAGCCCACCCAGGAACG |
| co3_8722946_x27 | CM000684.2/36179392-36179460 | 30 | ###### | 52 | 27 | GGAAATATGTCTGATAAGAGAGTTACTTTGACAGAGTAAATTACAGAGGTTTAAATCTTCCTATTTCTA |
| co3_8739443_x27 | CM000669.2/149556711-149556780 | 18 | ###### | 36.2 | 27 | GGGCGTATAGCTCAGGGGTAGAGCATTTGACTGCAGATCAAGAGGTCCCCAGTTCAAATCTGGGTGCCCA |
| co3_8739848_x27 | CM000664.2/218245826-218245918 | 21 | ###### | 34.2 | 27 | CCTTCAATAGTTCAGCTGGTAGAGCAGAGGACTATAGCTACTTCCTCAGTAGGAGACGTCCTTAGGTTGCTGGTTCGATTCCAGCTTGAAGGA |
| co3_8761145_x26 | CM000666.2/7504618-7504555 | 18 | ###### | 28.2 | 26 | GGCTGGGAAGCCAGCCCTGGGGTCCAGAGCCAGATGGATGTGGGTTCAAATCCCACCACAGCCA |
| co3_8770513_x25 | CM000664.2/30054702-30054774 | 16 | ###### | 32.2 | 25 | GGGCCAGTGGCTCAATGGATAATGCGTCTGACTAAGAATCAGAAGATTCCAGCCTTGACTCCTGGCTGGCTCA |
| co3_8773988_x25 | CM000670.2/46827965-46828036 | 34 | ###### | 28.2 | 25 | TACGACATGGTGTAATAAGTAGCACAGAGAATTTTGGGTTCTCAGGGGTAGGTTCAATTCCCATAGTTCTAG |
| co3_8782213_x25 | CM000671.2/110198523-110198595 | 14 | ###### | 28.2 | 25 | GGCCGTGTGGCCTAATGGATAAGGCGTCTGACTTCGGATCAAAAGATTGCAGGTTTGAGTTCTGCCACGGTCG |
| co3_8801441_x24 | AF134583.1/1599-1666 | 23 | ###### | 46.1 | 24 | AGAAAUUUAGGUUAAAUACAGACCAAGAGCCUUCAAAGCCCUCAGUAAGUUGCAAUACUUAAUUUCUG |
| co3_8835204_x22 | CM000668.2/26687257-26687329 | 25 | ###### | 34.2 | 22 | GGGGAATTAGCTCAAGTGGTAGAGCGCTTGCTTAGCACGCAAGAGGTAGTGGGATCGATGCCCACATTCTCCA |

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|---|---|---|---|---|---|---|
| co3_8837250_x22 | CM000668.2/27545689-27545770 | 46 | ###### | 91.7 | 22 | GTAGTCGTGGCCGAGTGGTTAAGGCGATGGACTTGAAATCCATTGGGGTTTCCCCGCGCAGGTTCGAATCCTGCCGACTACG |
| co3_8845764_x22 | CM000679.2/40117373-40117300 | 20 | ###### | 32.2 | 22 | GACCGTGTGGCCTTAATGGATAAGGTGTCTGACTTCAGATCAGAAGATTGAGGGTTTGAGTCCCTTTGTGGTCA |
| co3_8855471_x21 | CM000663.2/148246758-148246831 | 39 | ###### | 30.2 | 21 | GTCTCTGTGGCGCAATCGGTCAGAGCGTTCGGCTATTAACCGAACGGTGAGTAGTTCAAGACCACCCAGGGACG |
| co3_8863766_x21 | CM000668.2/27618356-27618429 | 13 | 0.009 | 26.3 | 21 | GGCCCTGTAGCTCAGCGGTTGGAGCGCTGGTCTCGTAAACCTAGGGGTCGTGAGTTCAAATCTCACCAGGGCCT |
| co3_8887708_x20 | CM000673.2/113562356-113562273 | 14 | ###### | 28.2 | 20 | ACCAGGATGGCCAAGTAGTTAAAGGCACTGGACTTAAGAGCCAATGGACATATGTCTGTGTGGGTTTGAACCCCACTCCTGGTG |
| co3_8888448_x20 | AF134583.1/1816-1744 | 19 | ###### | 38.2 | 20 | UAGAUUGAAGCCAGUUGAUUAGGGUGCUUAGCUGUUAACUAAGUGUUUGUGGGUUUAAGUCCCAUUGGUCUAG |
| co3_8938197_x18 | CM000668.2/26705377-26705449 | 14 | ###### | 28.2 | 18 | GGGGAATTAGCTCAAGCGGTAGAGCGCTTGCTTAGCATGCAAGAGGTAGTGGGATCGATGCCCACATTCTCCA |
| co3_8948707_x17 | CM000674.2/26572619-26572687 | 27 | 0.001 | 30.2 | 17 | AAGGAGTTAGCTCAATTAAAGTGATTGATTTGCATTCAGTTGATGTAAGATAAGATCTTGCAGTCCTTA |
| co3_8990870_x16 | CM000666.2/40906798-40906726 | 34 | ###### | 44.1 | 16 | GACCATGTGGCCTAAGGGAAAAGACATCTCACTTTGGGTCAGAAGATTGAGGGTTCAAGTCCTTTCATGGTCA |
| co3_8997174_x16 | CM000663.2/237942562-237942633 | 28 | 0.0004 | 32.2 | 16 | TAGGACTTGGTGTAATAGGTAGCACGAAGAGATTTGGATTCTCAGGGGTAGGTTCAATTCCTATAGTTCTGG |

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|---|---|---|---|---|---|---|
| co3_9000742_x16 | CM000663.2/222465005-222465077 | 19 | ###### | 30.2 | 16 | GGCTCCATAGCTCAGTGGTTAGAGCACTGGTCTTGTAAACCAGGGGTCGCGAGTTCGATCCTCGCTGGGGCCT |
| co3_9004668_x15 | CM000668.2/156547986-156547912 | 15 | ###### | 30.2 | 15 | GTTAAGACGGCAGAGCCCGGCAATTGCGTAAAATTTACAACTTTATGGGCAGAGGTTCAATTCCTCTTCTTAACA |
| co3_9022143_x15 | CM000679.2/64530873-64530800 | 16 | 0.0001 | 32.2 | 15 | AGCACCATGGCTTAGCTGGTTAAAGCACCTGTCTAGTAAACAGGAGATCCTGAGTTTCAATTCCAATGGTGCCT |
| co3_9024498_x15 | CM000681.2/12188561-12188634 | 34 | ###### | 28.2 | 15 | GGCTCTGTGGCTTTGTGGGTTAAAGTACTTGTCTGGCAAACAGGAGATGCTGGATTTCAATCCCAGCAGGGCCT |
| co3_9054076_x14 | CM000676.2/20613862-20613790 | 22 | ###### | 36.2 | 14 | GGCTCCATAGCTCAGGGGTTAGAGCGCTGGTCTTGTAAACCAGGGGTCGCGAGTTCAATTCTCGCTGGGGCCT |
| co3_9099122_x12 | CM000664.2/130273728-130273656 | 16 | ###### | 32.2 | 12 | TAGATTGAAGCCAGTTGATTAGGGTGTTTATCTGTTAATTAAATGTTCGTGGGTTTAAGTCCCATCAATCTAG |
| co3_9149253_x11 | CM000685.2/143434095-143434024 | 18 | 0.004 | 28.2 | 11 | TAGGATATGGTATATTAGGTAGCACAAAGAATTTTGAATTCTCAGGGGTAGATTCAATTCCTATAATTCTAG |
| co3_9198443_x10 | CM000679.2/22528921-22528853 | 22 | ###### | 36.2 | 10 | GAAAAAGTCATAGGGGTTATGAGGCTGGCTTGAAACCAGCCTTAGGAGGTTCAATTCCTTCCTTTTTTG |
| co3_9211032_x9 | CM000678.2/14285893-14285964 | 35 | ###### | 61.9 | 9 | GGCGCGGTGGCCAAGTGGTAAGGCGTCGGTCTCGTAAACCGAAGATCACGGGTTCGAACCCCGTCCGTGCCT |
| co3_9212697_x9 | CM000670.2/65697384-65697297 | 22 | ###### | 28.2 | 9 | TCTTCAATAGCTCAGCTGGTAGAGCGGAGGACTGTAGGTGCACGCCCGTGGCCATTCTTAGGTGCTGGTTTGATTCCGACTTGGAGAG |

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|---|---|---|---|---|---|---|
| co3_9277642_x8 | CM000676.2/88979098-88979170 | 18 | ###### | 28.2 | 8 | GGGGAATTAGCTCAAGTGGTAGAGCGCTCGCTTAGCATGCGAGAGGTAGTGGGATCGATGCCCGCATTCTCCA |
| co3_9279964_x7 | CM000673.2/109165312-109165393 | 13 | ###### | 26.3 | 7 | TGAGTTGTAGCTGAGTGGTTAAGGCAACGAGCTAGAAATTCGTTGGTTTCTCTCTGTGCAGGTTTGAATCCTGCTAATTATG |
| co3_9280468_x7 | CM000670.2/66114189-66114261 | 23 | 1E-08 | 46.1 | 7 | GGGGGATTAGCTCAAATGGTAGAGCGCTCGCTTAGCATGCGAGAGGTAGCGGGATCGATGCCCGCATCCTCCA |
| co3_9305255_x7 | CM000673.2/9275243-9275316 | 28 | ###### | 32.2 | 7 | GCCTCCTTAGTGCAGTAGGTAGCGCATCAGTCTCAAAATCTGAATGGTCCTGAGTTCAAGCCTCAGAGGGGGCA |
| co3_9312766_x7 | ENST00000387429.1 | 21 | ###### | 42.1 | 7 | ACTCTTTTAGTATAAATAGTACCGTTAACTTCCAATTAACTAGTTTTGACAACATTCAAA |
| co3_9321033_x7 | ENST00000387400.1 | 27 | ###### | 54 | 7 | TAGATTGAAGCCAGTTGATTAGGGTGCTTAGCTGTTAACTAAGTGTTTGTGGGTTTAAGT |
| co3_9330214_x6 | CM000668.2/69204486-69204568 | 18 | ###### | 28.2 | 6 | ACTCATTTGGCTGAGTGGTTAAGGCATTGGACTTAAGATCCAATGGAGTAGTGGCTGTGTGGGTTTAAACCCCACTACTGGTA |
| co3_9350020_x6 | CM000683.2/35891030-35891100 | 13 | ###### | 26.3 | 6 | GAGGATTTAGTTTAATTAAAATGTTTGATTTGCATTCAATTGATGTAAGATAGAGAGTGTTGCAGTCCTTA |
| co3_9364408_x6 | CM000669.2/141803557-141803628 | 22 | ###### | 28.2 | 6 | TAGGACGTGGTGTAGTAGGTAGCATGGAGAATGTTGAATTCTCAGGGGTAGGTTCAATTCCTATAGTTCTAG |
| co3_9380248_x5 | CM000663.2/146488866-146488936 | 20 | 0.0002 | 32.2 | 5 | GCGTCAGTGGTTTAGTGGTGGAATTCCTGCCTCCCATGCACGAGATCCGTGTTCAACTCCTGGTTGGTGCA |

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|---|---|---|---|---|---|---|
| co3_9381863_x5 | CM000685.2/55178915-55178987 | 35 | 8E-11 | 54 | 5 | TAGATTGAAGCCAGTTGATTAGGGTGTTTAGCTGTTAACGAAATTTTCGTGGGTTTGAATTCCACCAATCTAG |
| co3_9393533_x5 | CM000665.2/106894340-106894273 | 13 | 0.008 | 26.3 | 5 | GTAGTTATAGTTTAATTAAACATTAGATTGTGGATCTAATAATAGAAGTCTACAGCTTCTTACCTACC |
| co3_9428898_x5 | CM000668.2/57861238-57861166 | 21 | ###### | 26.3 | 5 | GGGGAATTAGCGCAAGTGGTAGAGTGCTTGCTTAGCATGCAAGAGGTAGTGGGATCGATGCCCACATTCTCCA |
| co3_9434758_x5 | CM000685.2/102010285-102010355 | 13 | ###### | 26.3 | 5 | GTTAGTGTAGCTTAATATGGTAAAGCAAGGCACTGAAAGTGCGTAGATGAGTTCATGTAACTCCATAAACA |
| co3_9437798_x5 | CM000669.2/149406135-149406064 | 32 | ###### | 32.2 | 5 | GGGGGTATAGCTGAGGAGTAAACCATTTGGCTGCAGATCAAGTGGTCCCTGGTTCAAATATGGGTGCCCTCT |
| co3_9444196_x4 | CM000669.2/149363270-149363207 | 22 | ###### | 28.2 | 4 | GTGGATATAGTCTGCATTTGACTGCAAATTAAAGAAGTCTCTGGTTCAAATCCAGCTGTCCCCT |
| co3_9455952_x4 | CM000664.2/117026500-117026435 | 17 | ###### | 26.3 | 4 | GGTAAAATGACTGAGTAAGCGTTAGACTGTAAATCAAAAGATGGAGGTCAAGGCCTCCTTTTACCA |
| co3_9464460_x4 | KI270803.1/667733-667803 | 15 | ###### | 30.2 | 4 | GTTAATGTAGCTTAATTATTTAAAGCAAGACACTGAAAATGTCTAGATGGGCTTATACAGCCCCATAAACA |
| co3_9480824_x4 | CM000672.2/36434683-36434615 | 33 | ###### | 34.2 | 4 | GTAAATATAGTTTAGTCAAAATATTAGATTGTGGATCTGATAATAGAAGTCTGTAACTTCTTATTTACT |
| co3_9524788_x3 | CM000670.2/79428812-79428742 | 14 | ###### | 28.2 | 3 | GGCACTGTAGTTTGGATTGAGAAACACAGGCTTTAGAGGCAGAAGTTCTGGGTTCAAACCCAGCATTGCCA |

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|---|---|---|---|---|---|---|
| co3_9576868_x3 | CM000672.2/55597818-55597888 | 13 | ###### | 26.3 | 3 | GTTAATGTAGCTTAATTATTTAAAGCAAGGCACTGAAAATGCCTAGATGGGTCCGCAAAACCCCATAAACA |
| co3_9582511_x3 | CM000669.2/68098326-68098258 | 13 | ###### | 26.3 | 3 | GAGAAGGTCATAGAGGTTATGGGATTGGCTTGAAACCAGTTTCTGGAGGTTCCATTCTTTCCTTTTTCG |
| co3_9623050_x3 | CM000685.2/119603898-119603966 | 15 | ###### | 30.2 | 3 | GCAGCTGTGGCTCAGTGGAAAGAGCATCAGTCTGGGTATCAGAAGACCTAGGTCCTAGCCCCAGCTGTA |
| co3_9678369_x2 | CM000676.2/61184426-61184490 | 15 | ###### | 30.2 | 2 | GACAGTTTGGCTTAGTGGTTAAGAGCTTTGGTACCAGATGGAATGGGTTCAAATCCCAACTCTCT |
| co3_9681275_x2 | CM000671.2/64046744-64046678 | 21 | ###### | 26.3 | 2 | GGTAAAATGACTGAGTAGGGCATTAGACTGTACATCTAAAAACAGAGGTCAAGGCCTGTTTTTACCA |
| co3_9722409_x2 | CM000673.2/63489530-63489598 | 18 | ###### | 36.2 | 2 | ATTAAGGTAGTATAGTAGAGTAAAATACTTCGAAGCCAAAAGATCTAGGTTTGAATCCTAGCTTTCATG |
| co3_9723169_x2 | CM000685.2/102786742-102786669 | 18 | ###### | 28.2 | 2 | TAGAATATAGTGTATCAGGTAGCACAAAGATTTTTGAATTCTTAAGAGAGTAGGTTCAATTCCTATAATCCTGT |
| co3_9732151_x2 | CM000685.2/25262043-25261972 | 14 | 0.003 | 28.2 | 2 | AGTCAAGTGGTTTAGTGGAAAGAACATTGGATTGGAAGTCAAGAGGCCTGGATTCTTGCTCCAGCTTCACCA |
| co3_9735741_x2 | CM000670.2/70237343-70237274 | 15 | 0.0005 | 30.2 | 2 | GGCAGTGTCCTAGAGGTAAAGAGTACAGGCTTAGAGTCAGACAGCGCGGGTTCAAATCCTGCTTCTGCCA |
| co3_9833295_x2 | CM000670.2/88133080-88133007 | 14 | ###### | 28.2 | 2 | GGTACAGTGTTAAAGGGGAGAAAAATTGCTGACTTTGAATACAGTAGACCTAGGTTTGAATCCTGGCTTTACCA |

| | | | | | | |
|---|---|---|---|---|---|---|
| co3_9871483_x2 | CM000666.2/84855315-84855245 | 14 | ###### | 28.2 | 2 | AATATAGTACTGAGTGATGAAGAGCCTGGCTTGGAATCAGATAGATGTAGTTTTAAATTCTGTCTGTATTG |
| co3_9877629_x2 | CM000670.2/18537373-18537307 | 13 | ###### | 26.3 | 2 | GGTAATATAGCTTAAGAGCCGTGGGTTTTGAACTCAGATTGCCTTGGTTCAAATCCGAGTTTCATTT |
| co3_9994167_x2 | CM000672.2/47633857-47633927 | 18 | ###### | 28.2 | 2 | GTTAATGTAGCTTAATTATTTAAAGCAAGGCACTGAAAATGCCTAGATGGGTCCGCACAACCCGGTAAACA |
| co3_10040725_x1 | CM000664.2/82819272-82819338 | 17 | 9E-05 | 34.2 | 1 | GCCCTTGTAGTATAATTCAATACTCTGGTCTTGTAAACCAGAAATGGAGGATCTCCTCCCCAGGACA |
| co3_10046439_x1 | CM000665.2/166233278-166233208 | 14 | ###### | 28.2 | 1 | GTTGATGTGGTTTAATATGTTAAAACAAGGCATTGAAAATGTCTAGATGAGTTCTCATAGCTCCATAAACA |
| co3_10140946_x1 | CM000668.2/26728053-26728125 | 23 | ###### | 46.1 | 1 | GGGGAATTGGCTCAAGCGGTAGAGCGCTTGCTTAGCATGCAAGAGGTAGCAGGATCGACGCCTGCACTCTCCA |

**Table S3. The list of identified glycosylated snoRNA in paracancerous tissue (PCA) and cancer tissue (CA).** (a) N-linked glycosylated snoRNAs from PCA, (b) N-linked glycosylated snoRNAs from CA

(a)

| Qseqid | Sseqid | NT | Evalue | Bitscore | Number | Sequence |
|---|---|---|---|---|---|---|
| ex3_1603268_x2330 | ENST00000364281.1 | 14 | ###### | 28.2 | 2330 | CTAAAACAATGTCAATAGTTTTCATCAACAGCAGTTGAACCTAGTAAGTGTCGATACTTT |
| ex3_1607924_x2326 | CM000664.2/231456523-231456444 | 17 | ###### | 34.2 | 2326 | TGGATATGATGACTGATTACCTGAGAAATAATTGATGAAATCTCAAGAAAATTCCTCTAGATAGTCAAGTTCTGATCCAG |
| ex3_1990113_x1412 | CM000673.2/62853395-62853325 | 20 | ###### | 40.1 | 1412 | CTCACCAGTGATGAGTTGAATACCGCCCCAGTCTGATCAATGTGTGACTGAAAGGTATTTTCTGAGCTGTG |
| ex3_2057856_x1303 | ENST00000627253.1 | 20 | ###### | 40.1 | 1303 | AAGACTATACTTTCAGGGATCATTTCTATAGTTTGTTACTAGAGAAGTTTCTCTGAACGT |
| ex3_2114424_x1214 | AY349606.1/1-85 | 15 | ###### | 30.2 | 1214 | CCCCUAUCUCUCAUGAUGAACACAUAUGCCUCUGAGCUGCUGUGAUUUCUGGCUUCAAAGUAAACGCUCUGAAGAAGAGAUGGGG |
| ex3_2178138_x1108 | AJ224028.1/3-79 | 28 | ###### | 56 | 1108 | CAGAAUACAUGAUGAUCUCAAUCCAACUUGAACUCUCUCACUGAUUACUUGAUGACAAUAAAAUAUCUGAUAUUCUG |

| | | | | | | |
|---|---|---|---|---|---|---|
| ex3_2245872_x1006 | ENST00000362607.1 | 26 | ###### | 52 | 1006 | CTGCATCCACTGATAGACCTTGAACAATTTACTGTTGTTCTTTTGGTTTGCACTAGGATG |
| ex3_2319852_x914 | CM000663.2/75787072-75787150 | 14 | ###### | 28.2 | 914 | GGTCAATGATGAGTTGGCATGTATTCTGAATCTAAAGTTGATTATTACTACTTTAGCTCTAGAATTACTCTGAGACCTG |
| ex3_2332579_x902 | ENST00000580533.1 | 30 | ###### | 60 | 902 | AAGACTATACTTTCAGGGATCATTTCTATAGTGTGTTACTAGAGAAGTTTCTCTGAACGT |
| ex3_2401130_x832 | CM000672.2/89061131-89061031 | 14 | ###### | 28.2 | 832 | ATTCTTTTGTATCTCACAAGTGTGACTGGGTTTTTAGGCTCATGTGTGAGATGAGCTTCCCTCAAAAATTGTTGTGACTGTGGCATGTTACCTGTGTGATG |
| ex3_2410212_x819 | ENST00000384048.1 | 16 | ###### | 32.2 | 819 | ATTCGTGATGACTGATCATTTCTTCACTTTGACCAGATGTCTACTGAAGAAAGCCTGCGT |
| ex3_2468755_x767 | ENST00000384320.2 | 14 | ###### | 28.2 | 767 | CTGGTTGCATGATGAATAAAATCAAATCACCATCTTTCGGCTGAGTTCGTGATGGATTTG |
| ex3_2597573_x661 | AB061820.1/3401-3472 | 28 | ###### | 56 | 661 | UCAAAAUGAUGAGAUUCCACUUAAUUGGUCCGUGUUUCUGAAACACAUGAUAUUUGUGGAAAUUCUGACUUG |
| ex3_2611343_x649 | ENST00000448188.1 | 29 | ###### | 58 | 649 | TGGAGGTGATGAACTGTCTGAGCCTGACCTTGTAGAATGGAGGCAAAAAAACTGATTTAA |
| ex3_2744568_x548 | AJ543325.1/2-85 | 28 | ###### | 56 | 548 | CUGAGUCCAUGAUGAUUUCAAGUUAUCCCUGUCUGAAGGCAAAGAAAGGCCUUUCUGUGUGGAAUUUGAAUAUCUGAAACUCAG |

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| ex3_2782515_x524 | ENST00000364155.1 | 45 | ###### | 65.9 | 524 | GTTTCTGATGAAGCCTATGTTGGTAGGGACAACTAAGGTTGTTGATGAATGCTAACAGCT |
| ex3_2789313_x520 | AC104446.2/145501-145577 | 35 | ###### | 69.9 | 520 | AAUGUGAAGCAAAUGAUGAUAAACUGGAUCUGACUGACUGUGCUGAGUCUGUUCAAUCCAACCCUGAGCUUCAUGUU |
| ex3_2815960_x505 | AK096147.1/739-811 | 20 | ###### | 40.1 | 505 | GUUUGAAUGAUGACUUUAAUUGUCGGAUACCCCUUCACUCCUUUUAUGAGUGAAACAUAAGAGUCUGACAAAC |
| ex3_2851113_x485 | AJ609483.1/2-129 | 28 | 6E-11 | 56 | 485 | CUGGAGGACUAAGAAGGCUGAGUCUGAUGAAGUAAGACUUUGCUGAUACAUUCCUCCUAGAAAAAAGGGUUGGAGAGAGCAGCCUUCACUGAAGAGUAUCACAGGGCUGACUGUACUACCCAACACUC |
| ex3_2958900_x429 | ENST00000364921.1 | 19 | 0.002 | 30.2 | 429 | ATGCAGGTACTGTTATAACTGAAGTGTTTTACGGTTTTTTCTTCCTGCTTAAAGCACTTG |
| ex3_2973373_x423 | AF020531.1/104-320 | 24 | ###### | 48.1 | 423 | AAGACUAUACUUUCAGGGAUCAUUUCUAUAGUGUGUUACUAGAGAAGUUUCUCUGAACGUGUAGAGCACCGAAAACCACGAGGAAGAGAAGUAGCGUUUUCUCCUGAGCGUGAAGCCGGCUUUCUGGCGUUGCUUGGCUGUAACUGCCGUCAGCCAUUGAUGAUCGUUCUUCUCCCCGUAUUGGGGAGUGAGAGGGAGAGAACGCGGUCUGAGUGGU |

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| ex3_3029161_x397 | AC092174.5/156814-156683 | 23 | ###### | 46.1 | 397 | CUUCCCAUUUAUUUGCUGCUUAUAGUCUCACUGUGAUAUGAGCAAUUAUACACAUGGGAUAAAAUAAUAUUGAGCCACUGUAAAUUGAGAUGAAGUAACCGUUUUCAUAUCUUCUGCAUGGACUAGACAUUG |
| ex3_3076021_x377 | CM000673.2/62853732-62853663 | 24 | ###### | 48.1 | 377 | GTTTGTGATGACTTACATGGAATCTCGTTCGGCTGATGACTTGCTGTTGAGACTCTGAAATCTGATTTTC |
| ex3_3121870_x356 | CM000679.2/19112636-19112420 | 30 | ###### | 60 | 356 | AAGGCTATACTTTCAGGGATCATTTCTATAGTGTGTTACTAGAGAAGTTTCTTTGAACGTGTAGAGCACCGAAAACCCCGAGGAAGAGAGGTAGCGTTTTCTCCTGAGCGTGAAGCCGGCTTTCTGGCGTTGCTTGGCTGCAACTGCCGTCAGCCATTGATGATCGTTCTTCTCTCCGTATTGGGGAGTGAGAGGGAGAGAACGCGGTCTGAGTGGT |
| ex3_3202744_x322 | CM000682.2/17962946-17962710 | 29 | ###### | 58 | 322 | GTGAAATGATGATTCAGTTTATCCATTCGCTGAGTGCGCTGCACTGACCTTCTTCCAAGCCTCAGTTCCTGTTCTAGGAACTTGAGGCTATGTAGCCTGAAAATGCCCTGCAGTCTGCAGTGTTCTACTGTGAACTGCTTGTGTGTTGGCAGGCTACCGGTAAGAATGGTTGGTGTCAGCAGGGACGGGGCCCTCTGAGACCCATCTCACAAAGATGAGTGGTGAAAATCTGATCAC |

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| ex3_3218399_x317 | CM000668.2/85677368-85677294 | 25 | ###### | 50.1 | 317 | TATCTGTGATGATCTTATCCCGAACCTGAACTTCTGTTGAAAAAAAAAAACTTTTACGGATCTGGCTTCTGAGAT |
| ex3_3238119_x309 | ENST00000459342.1 | 24 | 1E-08 | 48.1 | 309 | GTTCAGATGATGAATTTAACTGTTCAACTGCTGAATGATAACGGGCATGAACTAAAACTT |
| ex3_3263969_x300 | CM000685.2/119787484-119787353 | 23 | ###### | 46.1 | 300 | AAAGCAGGTTGCAATTACAGTGCTTCATTTTGTGGAAGTACTGCCATTATCCTGCTGAAAGAAAAGCCGTGTTAATCATTTTTGATTTTGCCTTTATGAGGGTAAAATCATGACAGATTGACATGGACAATT |
| ex3_3265168_x299 | ENST00000391079.1 | 14 | ###### | 28.2 | 299 | AAATGATGAAATCACCCAAAATAGCTGGAATTACCGGCAGATTGTGTAGTGGTGAACCTA |
| ex3_3298669_x289 | AADC01102901.1/15489-15356 | 19 | ###### | 38.2 | 289 | CUGUCAGGUGGGAUAACCCUUCCCUGUUCCUCCGUUUGGAGGGCAGAUAGAACAUGAUGACUGGAGAUGCAUGAAAUGUGACUAAUGUCUCUGUGUAAUCAGGACUUGCAACACCCUGAUUGCUCCUAUCUGAU |
| ex3_3343463_x272 | CM000663.2/44776490-44776593 | 26 | ###### | 52 | 272 | AAGTAGGGTGATGAAAAAGAATCCTTAGGCGTGGTTGTGGCCGTCTTGGTCACCTGTGTGCCACTTGCCAATGCAAGGACTTGTCATAGTTACACTGACTGTTG |

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| ex3_3425819_x247 | CM000667.2/58070188-58070291 | 17 | ###### | 34.2 | 247 | ATCCTTTTGTAGTTTACGAGCATGATGATTGAGTGTTCACACACGGATGTGATATGTGCCACCCTCAAACCTTGTTACGACTTCAGCTTATTACCCAACTGACC |
| ex3_3441946_x242 | AJ238853.1/1-62 | 25 | ###### | 50.1 | 242 | CACAGAUGAUGAACUUAUUGACGGGCGGACAGAAACUGUGUGCUGAUUGUCACGUUCUGAUU |
| ex3_3466325_x236 | AP001273.4/3902-3830 | 35 | ###### | 69.9 | 236 | CGAUGUUAUGAUGAUGGGCGAAAUGUUCAACUGCUCUGAAGGGGCUGAAUGAAAAUGGCCUUUCUGAACAUCC |
| ex3_3474528_x233 | AJ609488.1/1-73 | 21 | ###### | 42.1 | 233 | GUUCAGAUGAUGAAUUUAACUGUUCAACUGCUGAAUGAUAACGGGCAUGAACUAAAACUUAAUUCUGACAGAG |
| ex3_3481725_x231 | CM000674.2/56643750-56643680 | 24 | ###### | 48.1 | 231 | CCTCACTGATGAGTACGTTCTGACTTTCGTTCTTCTGAGTTTGCTGAAGCCAGATGCAATTTCTGAGAAGG |
| ex3_3537711_x213 | ENST00000629536.1 | 26 | ###### | 52 | 213 | AAGCACTGCCTTTGAACCTGATGTGTCTTGTTTGTAGCTTCACGGGCCAAGCAACAGTGC |
| ex3_3549990_x209 | AK303222.1/647-788 | 21 | ###### | 42.1 | 209 | GCUCUGUGAUGGAGCCCAUGCGUGUCAUCUGAGCCUCUGGCUUCCCUGCCAGUGCAGCCCUGGCAGUGUCCUACUUCCCAGGGCUGUUGUCUGCCUGGCGGGAAGGUCCUGGGCAAAGGAUCAGUCUUUGUACUCUGAGAGC |
| ex3_3562651_x206 | ENST00000384147.1 | 35 | ###### | 69.9 | 206 | CTACGGGGATGATTTTACGAACTGAACTCTCTCTTTCTGATGGATTAGTGGAGAAAACAG |

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| ex3_3595851_x197 | CM000665.2/185442219-185442319 | 15 | ###### | 30.2 | 197 | ATTCTTTTGTGATTCATAAGCATGACTGGGTGTTCCCACTCACGGGTGAGATGTGCCTCCCTCCAACCTTGTTACGACGTCACCACATTACCTGTCTGACA |
| ex3_3624250_x190 | AB061820.1/2178-2249 | 28 | ###### | 56 | 190 | CAGUAGUGAUGAAAUUCCACUUCAUUGGUCCGUGUUUCUGAACCACAUGAUUUUCUCGGAUGUUCUGAUGCU |
| ex3_3630119_x189 | AC006597.2/8154-8065 | 14 | ###### | 28.2 | 189 | UCACUGUGAUGAUGGUUUUCCAACAUUCGCAGUUUCCACCAGAAAGGUUUUCCUUAGUGUUGGGUAAACCUUCCUUGGAUGUCUGAGUGA |
| ex3_3634440_x187 | AJ010666.1/3-73 | 20 | ###### | 40.1 | 187 | AGCACAAAUGAUGAAUAACAAAGGGACUUAAUACUGAAACCAGAUGUUACAUUGUAGUGUGCUGAUGUGCU |
| ex3_3636497_x187 | AJ609430.1/1-139 | 29 | ###### | 58 | 187 | GACCUCCUGGGAUCGCAUCUGGAGAGUGCCUAGUAUUCUGCCAGCUUCGGAAAGGGAGGGAAAGCAAGCCUGGCAGAGGCACCCAUUCCAUUCCCAGCUUGCUCCGUAGCUGGCGAUUGGAAGACACUCUGCGACAGUG |
| ex3_3704649_x171 | AJ609450.1/1-137 | 29 | ###### | 58 | 171 | GGGCAUACUCGUAGACCUUGCCUGACUGUGCUCAUGUCCAGGCAGGGGGACAGUGUAUGCAAGAAUAAUUUGGAGUUCCUGCCAGCUCUAACCAGCUUCAUCAGUGGCUGGAUAAAUUGCAGGACUCUAAACAUUU |
| ex3_3717530_x168 | ENST00000408061.1 | 31 | ###### | 61.9 | 168 | GGGCTCCCATGATGTCCAGCACTGGGCTCTGATCACCCCTGAGGACACAGTGCACCCCAG |

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| ex3_3721212_x167 | ENST00000363836.1 | 14 | ###### | 28.2 | 167 | GGTCAATGATGTAATGGCATGTATTAGCTGAATCCAGAGTTGATATGAGTTCTAAAATTA |
| ex3_3729173_x165 | CM000679.2/8173587-8173454 | 20 | ###### | 40.1 | 165 | TCGTCAGGTGGGATAATCCTTACCTGTTCCTCCTCCGGAGGGCAGATTAGAACATGATGATTGGAGATGCATGAAACGTGATTAACGTCTCTGCGTAATCAGGACTTGCAACACCCTGATTGCTCCTGTCTGAT |
| ex3_3730159_x164 | AC025362.12/104594-104663 | 40 | ###### | 79.8 | 164 | GCUGUGAUGACAUUCCAAUUAAAGCACGUGUUAGACUGCUGACGCGGGUGAUGCGAACUGGAGUCUGAGC |
| ex3_3743959_x161 | ENST00000363981.1 | 21 | ###### | 42.1 | 161 | ACTCCATGATGAACACAAAATGACAAGCATATGGCTGAACTTTCAAGTGATGTCATCTTA |
| ex3_3760941_x157 | CM000663.2/28508559-28508762 | 24 | ###### | 48.1 | 157 | CCAACGTGGATACCCTGGGAGGTCACTCTCCCCAGGCTCTGTCCAAGTGGCATAGGGGAGCTTAGGGCTCTGCCCCATGATGTACAGTCCCTTTCCACAACGTTGAAGATGAAGCTGGGCCTCGTGTCTGCGCCTGCATATTCCTACAGCTTCCCAGAGTCCTGTGGACAATGACTGGGGAGACAAACCATGCAGGAAACATAT |
| ex3_3787417_x151 | AB061820.1/4174-4242 | 27 | ###### | 54 | 151 | UUGUUAUGAUGAGAUUCCACUUAAGGUCCGUGUUUCUGAAACAAAUGAUUUUGUGGAAGUUCUGAUUUA |
| ex3_3790585_x150 | ENST00000408493.2 | 23 | ###### | 46.1 | 150 | ACCTTCTTGTATAAGCACTGTGCTAAAATTGCAGACACTAGGACCATGTCTTGGTTTTTG |

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| ex3_3792235_x150 | ENST00000364805.1 | 14 | ###### | 28.2 | 150 | GAGGTCAGTGATGAGCAACATTCACCATCTTTCGTTTGAGTCTCACGGCCATGAGATCAA |
| ex3_3802049_x147 | AC117503.8/209801-209669 | 25 | ###### | 50.1 | 147 | UAGCAAGCCUCCAGCGUGCUUGGGUCUGCAGUGACCCCGUGGAUUCCUACAGGGCUUGCCAGAACAGUUUUGAAAUGGUUUGAGGCCUUGCCGUGCUCCAUGUAGAGCAAGGUUAUAGAAAUUUCAGACAAUG |
| ex3_3832570_x141 | AC093484.2/160294-160365 | 23 | ###### | 46.1 | 141 | UGUCCUGAUGAUACUUGUAAUAGGAAGUGCCGUCAGAAGCGAUAACUGACGACGUCUAAUGUCUAUCUGACC |
| ex3_3852233_x138 | ENST00000516404.1 | 19 | ###### | 38.2 | 138 | TCCAGCTGTAGGCAGCTGCCTAGGTTGTCTTGTACCTAGGCAAGTGTTACACTGCTGGGA |
| ex3_3861227_x135 | ENST00000364722.1 | 29 | 2E-11 | 58 | 135 | GATCAATGATGAAACTAGCCAAATCTGAGCATCAGAAGGCTTTCCGGTCTACCTGATGCA |
| ex3_3867822_x134 | CM000679.2/19188016-19188232 | 34 | 2E-14 | 67.9 | 134 | AAGACTATACTTTCAGGGATCATTTCTATAGTGTGTTACTAGAGAAGTTTCTCTGAACGTGTAGAGCACCGAAAACCACGAGGAAGAGAGGTAGCGTTTTCTCCTGAGCGTGAAGCCGGCTTTCTGGCGTTGCTTGGCTGCAACTGCCGTCAGCCATTGATGATCGTTCTTCTCTCCGTATTGGGGAGTGAGAGGGAGAGAACGCGGTCTGAGTGGT |
| ex3_3868626_x134 | ENST00000625943.1 | 23 | ###### | 46.1 | 134 | TCTCAGTGATGAAAACTTTGTCCAGTTCTGCTACTGACAGTAAGTGAAGATAAAGTGTGT |

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| ex3_3869832_x134 | AY349593.1/1-137 | 32 | ###### | 63.9 | 134 | CAGGCUGUGAUGAUUGGCGCAGGGGUACGGACCUCAGCUGAGUCAUGGGAGCUGAAUGUAUGUGUUUCUCCUUUGUCCUGCAUGUGGCAGGCUGAUGGGGAGCACUUACAUGAGACUGUUGCCUCAAUCUGAGCCUG |
| ex3_3873031_x133 | AY349604.1/4-89 | 41 | ###### | 81.8 | 133 | UCUGGCAAUGAUGACCCACUUGCCCUCACUGAGAACAAAGUUCGGUAAUGAGAAUCUUUGUUAAUGGACUCAAGUUCUGAGCCAGC |
| ex3_3879510_x131 | CM000664.2/206161878-206161956 | 22 | ###### | 44.1 | 131 | CTGGTTGCATGATGAATAAAATCAAATCACCATCTTTCGGCTGAGTTCGTGATGGATTTGCTTTTTTCTGATTAAGCCA |
| ex3_3903542_x127 | ENST00000583861.1 | 23 | ###### | 46.1 | 127 | CACAGATGATGAACTTATTGACGGGCGGACAGAAACTGTGTGCTGATTGTCACGTTCTGA |
| ex3_3910624_x126 | ENST00000459163.1 | 51 | ###### | 85.7 | 126 | AAGTGAAATGATGGCAATCATCTTTCGGGACTGACCTGAAATGAAGAGAATACTCATTGC |
| ex3_3911632_x126 | ENST00000384229.1 | 51 | ###### | 46.1 | 126 | TGCTCTGATGAAATCACTAATAGGAAGTGCCGTCAGAAGCGATAACTGACGAAGACTACT |
| ex3_3918628_x124 | ENST00000363214.1 | 41 | ###### | 65.9 | 124 | TGATGACATTCTCCGGAATCGCTGTACGGCCTTGATGAAAGCACATTTGAACCCTTTTCC |

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| ex3_3919000_x124 | AL449212.1/17376-17238 | 23 | ###### | 46.1 | 124 | GACCUCCUGGGAUCGCAUCUGGAGACUGCCUAGUAUUCUGCCAGCUUCGGAAAGGGAGGGAAAGCAAGCCUGGCAGAGGCACCCAUUCCAUUCCCAGCUUGCUCCGUAGCUGGUGAUUGGAAGACACUCUGCGACAGUG |
| ex3_3922844_x123 | CM000679.2/19190245-19190029 | 23 | ###### | 46.1 | 123 | AAGACTATACTTTCAGGGATCATTTCTATAGTGTGTTACTAGAGAAGTTTCTCTGAACGTGTAGAGCACCGAAAACCACGAGGAAGAGAGGTAGCGTTTTCTCCTGAACGTGAAGCCGGCTTTCTGGCGTTGCTTGGCTGCAACTGCCGTCAGCCATTGATGATCGTTCTTCTCTCCGTATTGGGGAGTGAGAGGGAGAGAACGCGGTCTGAGTGGT |
| ex3_3932654_x122 | CM000682.2/2656939-2657010 | 17 | ###### | 34.2 | 122 | TGGAGGTGATGAACTGTCTGAGCCTGACCTTGTAGAATGGAGGCAAAAAAACTGATTTAATGAGCCTGATCC |
| ex3_3943630_x120 | CM000672.2/68755172-68755238 | 28 | ###### | 56 | 120 | GAGTTATGATGTGTGTAAATCCTATTCCATTGCTGAAATGCAGTGTGGAACACAATGAACTGAACTC |

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| ex3_3945182_x119 | CM000685.2/70846295-70846080 | 15 | ###### | 30.2 | 119 | AAGACTATACTTTCAGGGATCATTTCTATAGTTTGTTACTAGAGAAGTTTCTCTGAACGTGTATAGCACTGAAAACCACAAAGAAGAGGTGCAGCATTATCTCCTAAGTGTAAAGCCGGCTCTTGATGTTGCTTTGCTGCAACTGCCATTTGCCATTGATGATCGTTCTTTTCTTCCTTTGGGAGACTGGGAAGGAAAGGATGCAATCTGAGTGGT |
| ex3_3951830_x118 | ENST00000384214.1 | 32 | ###### | 63.9 | 118 | CTTCGATGAAGAGATGATGACGAGTCTGACTTGGGGATGTTCTCTTTGCCCAGGTGGCCT |
| ex3_3965257_x116 | ENST00000364938.1 | 43 | ###### | 85.7 | 116 | CCAACGTGGATACACCCGGGAGGTCACTCTCCCCGGGCTCTGTCCAAGTGGCGTAGGGGA |
| ex3_3991858_x111 | ENST00000384769.1 | 33 | ###### | 50.1 | 111 | AGCTTAATGATGACTGTTTTTTTTGATTGCTTGAAGCAATGTGAAAAACACATTTCACCG |
| ex3_3999465_x110 | ENST00000516236.1 | 20 | ###### | 40.1 | 110 | ATGGAGGCTGCAGTGAGCAGAGATGGCGCCACTGCACTCCAGCCTGAGCGACAACGAGAC |
| ex3_4004167_x109 | ENST00000384176.1 | 24 | ###### | 48.1 | 109 | CTCCATGTATCTTTGGGACCTGTCAAGTGTGGCAGTCTCCCTTCCTTGCCATGGAAGAGC |
| ex3_4005257_x109 | AC007066.4/164516-164622 | 34 | ###### | 67.9 | 109 | AAGUUUUCUAAGUGUCUAAUGAUGAAUUUCAUAGGGCAGAUUCUGAGGUGAAAAUUUAAUUCAUCACUGAUACUCCUACUGUGGAAUCUGAAGACACUUGAAAACGU |
| ex3_4032731_x104 | ENST00000384027.1 | 37 | ###### | 58 | 104 | GTTTGAATGATGACTTTAATTGTCGGATACCCCTTCACTCCTTTTATGAGTGAAACATAA |

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| ex3_4038295_x103 | AC104066.3/51055-51176 | 25 | ###### | 50.1 | 103 | GUGCCCUUUUAAGGUUGACCCAGUGCUUUAAGAGGCUAACACAGAAGGGUAAAGUAAGUCUCCAUAAAACCCAGAGAAGAGACUGGAAAGCUCCUCUUUGGAUCCUGUCUGGAGUCACAACU |
| ex3_4057732_x100 | ENST00000384220.1 | 20 | ###### | 40.1 | 100 | CTTCCCATTTATTTGCTGCTTATAGTCTCACTGTGATATGAGCAATTATACACATGGGAT |
| ex3_4095189_x93 | ENST00000583032.1 | 29 | ###### | 58 | 93 | AGTGATGATGACCCCAGGTAACTCTGAGTGTGTCGCTGATGCCATCACCGCAGCGCTCTG |
| ex3_4109281_x91 | ENST00000579879.1 | 47 | ###### | 54 | 91 | GGGGCGGTGATGACCCCAACATGCCATCTGAGTGTCGGTGCTGAAATCCAGAGGCTGTTT |
| ex3_4130956_x88 | AC008443.10/63918-63851 | 28 | ###### | 56 | 88 | GGGGCGGUGAUGACCCCAACAUGCCAUCUGAGUGUCGGUGCUGAAAUCCAGAGGCUGUUUCUGAGCUG |
| ex3_4139376_x87 | CM000679.2/48382586-48382371 | 18 | ###### | 28.2 | 87 | AAGACTATACTTTCAGGGATCATTTCTATAGTTAGTTGCTAGAGAAGTTTCTCTGGACATGTGGAGCACCAGAAACCATGAGAAGGAGATGTAGTGTTCTCTCCGGAGCATGAAGCTGGCTCTTGGTGTTGCTTCGCTGCACCTGCCATTTGCCATTGACAATCATTCTTCTCTTCCTCTGGGAGAGTAAGGAGGAGAGGACACAGTCTGAGTGGT |
| ex3_4148537_x86 | AB061837.1/2430-2563 | 28 | ###### | 56 | 86 | UGGUCCAUCCUAAUCCCUGCCGGUCCAUCUGUGGCCUGCCAGGUUUCGCUUGUGGACCAGAGCACCCUAGAAGCCUCACCCGAGGAGUGAGCAGGGCUCCAGUGGGCUCACGUCAUGGGCACUUCUAGACACUC |

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| ex3_4152729_x85 | CM000663.2/173864445-173864369 | 23 | ###### | 46.1 | 85 | AACCAATGATGTAATGATTCTGCCAAATGAAATATAATGATATCACTGTAAAACCGTTCCATTTTGATTCTGAGGTT |
| ex3_4154344_x85 | ENST00000384584.1 | 29 | ###### | 58 | 85 | CAGCATGTTTCCAAGGGCTGTGGCTGGTCATAGCCATGGGATCTCCAACTGCATGCAAGA |
| ex3_4175367_x82 | ENST00000383875.1 | 46 | ###### | 83.8 | 82 | CTGCAGTGATGACTTTCTTAGGACACCTTTGGATTTACCGTGAAAATTAATAAATTCTGA |
| ex3_4210891_x77 | AC013283.23/46245-46493 | 38 | ###### | 75.8 | 77 | AACAUGCUUCCUUAGAUCCACCUUUGUGGAUGAAUCUUGAACUGAGUUCCACUUGUAAACUUCUUGUUUCUUGUGGUUCCAGUAGUCAAAGAAACAUCCAGCAACUUUUUUGGUUGUAUAGUCAAAGGUGCUUGAGUCAUUGGCAUGUAAGAGAAAUAUACCUGCAUGUUAGUCUAACGUUCUGAUAGAAAUGACAUGCAUUUAUGCUGCCAUUUGUUACUAUCAGGACUCGACUCGUGUGCGGACAUU |
| ex3_4213894_x77 | ENST00000363484.1 | 20 | ###### | 40.1 | 77 | ACCTGTATTCGAAAGTGATCGTGGGCTGCCTGTGCCCTGGTCATTGATAGTGCAGGGAGA |

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| ex3_4217282_x77 | BK005568.1/1-420 | 28 | 6E-11 | 56 | 77 | GUUUUAGGGAGGGAGAGCGGCCUGGGUCCUGGGUGUUGUGUGCGGAGCUGUGGCGUCGCGUGUGAGGCGCGUGCAGGGUGAGUGUGAGUGGACGCGUGAGUGUGUGAGUGUGCGCGCUUGGAGCGUGUUAGGCGAGUGCGUGCGCCCACCCCUGCGCCCCUCCUCCCGCUUACACUUUGAUCUUAUUUGAUCGGAUCGUGACCCCAGCCCCGCCGGGCCGACCCGAAAUGAAAAGCUCUCCUCCUGCGAAGCCCCCUCGGGGCGCUGUGCAGCGAGGCCCCUUAGGCGGCGGCCACGCUGUGGUCCCCGAGGUCCCGGAGCUGGCCCUGCGGGGCCCGGCGCUCAGAAGUGAUGAAUUGAUCAGAUAGACGAGGCCGGGCUUGUCCCCGGCCACUGAUUAUCGAGGCGAUUCUGAUCUGG |
| ex3_4223227_x76 | CM000668.2/31835263-31835326 | 33 | ###### | 65.9 | 76 | AGTGATGATGACCCCAGGTAACTCTTGAGTGTGTCGCTGATGCCATCACCGCAGCGCTCTGACC |
| ex3_4233396_x75 | CM000665.2/52691378-52691453 | 33 | ###### | 65.9 | 75 | AAGAAATGAAGAAACTAAAATTGGTCTTAGTATTGAAGTGAAGACACTGAGATCCAACTCTGATCTTGCCCTAAAC |
| ex3_4272183_x70 | ENST00000384662.1 | 26 | ###### | 52 | 70 | CTTCCCATTTATTTGCTGCTTGTAGTCTCACAGTGATACGAGCAGTTATACGCATGGGAT |

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| ex3_4273998_x69 | CM000668.2/132816802-132816877 | 28 | 6E-11 | 56 | 69 | GCTGTACATGATGACAACTGGCTCCCTCTACTGAACTGCCATGAGGAAACTGCCATGTCACCCTTCTGATTACAGC |
| ex3_4288263_x68 | ENST00000363217.1 | 19 | ###### | 38.2 | 68 | CCAACGTGGATACCCTGGGAGGTCACTCTCCCCAGGCTCTGTCCAAGTGGCATAGGGGAG |
| ex3_4292981_x67 | L36587.1/100-167 | 21 | 5E-07 | 42.1 | 67 | UUCCUAUGAUGAGGACCUUUUCACAGACCUGUACUGAGCUCCGUGAGGAUAAGUAACUCUGAGGAGAU |
| ex3_4295862_x67 | CM000670.2/33513475-33513578 | 24 | ###### | 48.1 | 67 | ATCCTTTTGTAGTTCATGAGCGTGATGATTGGGTGTTCATACGCTTGTGTGAGATGTGCCACCCTTGAACCTTGTTACGACGTGGGCACATTACCCGTCTGACC |
| ex3_4308009_x65 | ENST00000364113.1 | 26 | ###### | 52 | 65 | ATCGAGGCTAGAGTCACGCTTGGGTATCGGCTATTGCCTGAGTGTGCTAGAGTCCTCGAA |
| ex3_4316573_x64 | CM000673.2/123059422-123059335 | 21 | 5E-07 | 42.1 | 64 | TCGCTGTGATGAGTGATTGTTAAACATTCGTAGTTTCCACCAAAAGCTTGGCTAATGATGGCAACACCTTCCTTGGATGTCTGAGCGA |
| ex3_4317021_x64 | CM000663.2/173865686-173865622 | 21 | ###### | 42.1 | 64 | GTGTAATGATGTTGATCAAATGTCTGACCTGAAATGAGCATGTAGACAAAGGTAACACTGAAGAA |
| ex3_4319773_x64 | AC018761.6/48391-48315 | 26 | ###### | 52 | 64 | GGCCUCAAGUGAUGGAGAGCAAUACCCGGGGAUGACUGUGACCACAUUGGGAUGUAUUCGUACUGUCUGAUGGGGCC |

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| ex3_4324189_x64 | ENST00000364884.1 | 25 | ###### | 50.1 | 64 | GGGAATGATGATTTCACAGACTAGAGTCTCCGATGCTGGTCATGATGTCAAAACTAAGTT |
| ex3_4331950_x63 | ENST00000426867.1 | 35 | 5E-15 | 69.9 | 63 | TCTCAGTGATGTAATTCCAATAGATCCTTCTGACCCTCCACTGTGGACTCAATAGCAGGG |
| ex3_4342047_x61 | CM000663.2/92837289-92837383 | 28 | ###### | 56 | 61 | GCTGAATGATGATATCCCACTAACTGAGCAGTCAGTAGTTGGTCCTTTGGTTGCATATGATGCGATAATTGTTTCAAGACGGGACTGATGGCAGC |
| ex3_4342840_x61 | ENST00000362883.1 | 20 | ###### | 40.1 | 61 | GCTGTGATGACATTCCAATTAAAGCACGTGTTAGACTGCTGACGCGGGTGATGCGAACTG |
| ex3_4350038_x61 | CM000679.2/8034584-8034487 | 14 | ###### | 28.2 | 61 | ATCCTTTTGTACTTGGTAAGCATGATGATTGGGTTTTTATGCTTATATATGAGACATGCTTGTCTCAAATCTTGTTACAGCACATTACCCTTCCTACT |
| ex3_4350343_x61 | ENST00000408564.2 | 21 | ###### | 42.1 | 61 | GTGGCCCTGACTGAAGACCAGCAGTTGTACTGTGGCTGTTGGTTTCAAGCAGAGGCCTAA |
| ex3_4355812_x60 | ENST00000384339.1 | 26 | ###### | 52 | 60 | CTGCGAATATTCTCGCTGTTCTGATTTTGTAATAGTCAGGACAGGCTAAACATTCGCTAT |
| ex3_4358812_x60 | ENST00000384792.1 | 25 | 3E-09 | 50.1 | 60 | GTGCAAACTCGATCACTAGCTCTGCGTGATGTGGCAGAAGCGAAGGGAACCAGGTTTGCA |
| ex3_4364273_x59 | AC010653.10/104059-104144 | 29 | ###### | 58 | 59 | UGUGUGUUGGAGGAUGAAAGUACGGAGUGAUCCAUCGGCUAAGUGUCUUGUCACAAUGCUGACACUCAAACUGCUGACAGCACACG |

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| ex3_4366751_x59 | ENST00000386847.1 | 32 | ###### | 63.9 | 59 | TGTCCCTGACCTGGGTAGAGTGGCATCTGGTTGGTGATGCCCATCTCATATCAGCCAGGG |
| ex3_4375338_x58 | ENST00000384581.1 | 36 | ###### | 71.9 | 58 | ATCCTCCTGATCCCTTTCCCATCGGATCTGAACACTGGTCTTGGTGGTCGTAAAAGGAGG |
| ex3_4385832_x57 | ENST00000383903.1 | 20 | ###### | 40.1 | 57 | AGTCTGTGATGAATTGCTTTGACTTCTGACACCTCGTATGAAAACTGCACGTGCAGTCTG |
| ex3_4387713_x57 | ENST00000365161.1 | 21 | ###### | 42.1 | 57 | TCTCGTGATGAAAACTCTGTCCAGTTCTGCTACTGAAGGGAGAGAGATGAGAGCCTTTTA |
| ex3_4402448_x55 | CM000673.2/62855632-62855564 | 21 | ###### | 42.1 | 55 | CTTCCTATGATGAGGACCTTTTCACAGACCTGTACTGAGCTCCGTGAGGATAAATAACTCTGAGGAGAT |
| ex3_4405583_x55 | AC023950.6/158570-158435 | 25 | 3E-09 | 50.1 | 55 | UGCCCCAUUCUCAAAGAGAAUAGGCACUGUUGAUCAUGCGAUCCAGAGAUUGUUAAUGGGGCUGCAUUGAGAAACAAGCUAUGUUUCCAUUCACAGCAAACACAUCGCAGUGGUGACAAUGAGACCUGUAACAUUU |
| ex3_4408622_x54 | AC006435.7/2333-2239 | 15 | 0.002 | 30.2 | 54 | CUUAAGAGCCAAUGAUGUUUUUAUUCAAAAUGUCUGAACCUGUCUGAAGCAUCCCAGUGAUGCAACUUCUGUGUGAUACUGAGGCUUUUUUGCCA |
| ex3_4409486_x54 | AC104446.2/143509-143592 | 22 | 1E-07 | 44.1 | 54 | UUUUGGUUGAAAUAUGAUGAGUGUACAAAAUCUUGAUUUAAGUGAAUGAAAAAUUACAAGAUCCAACUCUGAUUUCAGCCAGAG |

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| ex3_4414022_x54 | ENST00000365530.1 | 36 | ###### | 48.1 | 54 | AGCACAAATGATGAATAACAAAGGGACTTAATACTGAAACCTGATGTTACATTGTAGTGT |
| ex3_4428608_x52 | CM000682.2/38425331-38425198 | 26 | ###### | 52 | 52 | CCCTGTATTCGAAAGTGATCGTGGGCTGCCTTTGCCCTGGTCATTGATAGTGCAGGGAGAGGAATCAATGAAAGCGCTTCCCCGTGTTTGAAGGGTCCACTCCTATCCCTTCCAAACTCTGGAGCTTTCGTACA |
| ex3_4438135_x51 | AY349607.1/2-78 | 33 | ###### | 65.9 | 51 | GUAAAUGAUGACUUCACUUUUUUCCCCAUCAGAUCGACAAUGCUGACGUCUUAUAUUUUGCCAGUUAGUUCUGAUAC |
| ex3_4442266_x51 | CM000680.2/49491729-49491664 | 21 | ###### | 42.1 | 51 | CTGCGATGATGGCATTTCTTAGGACACCTTTGGATTAATAATGAAAACAACTACTCTCTGAGCAGC |
| ex3_4444000_x51 | ENST00000516528.1 | 26 | ###### | 52 | 51 | ATGCATCTATTTGACAGACCTGGAGCAGTTAGTGTGTGCTGCTAAGGTTTCTACCTCTAG |
| ex3_4455305_x50 | CM000663.2/175968540-175968398 | 31 | ###### | 61.9 | 50 | AATGGAAGCTGCTGGAACCAGCCATGTGGACAAATGAAAAAATGCCTTTTGTCTACAGATTGCAGCGATCCTACATAAATATATGGAGGTCTCTGTCTGGCTTAGGACAGCTGGCTAAGTCTGATCGTTCCCCTCCGTACAGC |
| ex3_4460561_x49 | ENST00000362874.1 | 27 | ###### | 30.2 | 49 | TTGCAATGATGTGAATCTCTCACTGAATTCAACCTTGAAGTGCGAATCCATGAGCTTTTT |

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| ex3_4482071_x47 | CM000682.2/2654212-2654286 | 27 | ###### | 54 | 47 | TTGCAGTGATGACTTGCGAATCAAATCTGTCAATCCCCTGAGTGCAATCACTGATGTCTCCATGTCTCTGAGCAA |
| ex3_4485267_x47 | CM000663.2/30968236-30968164 | 27 | ###### | 54 | 47 | ACTGGCAAGGATGATACACACTTGCCCTCACTTAGACTATAGTTCACTGATGAGAGCATTGTTCTGAGCCAGT |
| ex3_4496683_x45 | ENST00000384574.1 | 19 | ###### | 38.2 | 45 | TGCACTGCATGGTATCTGCACTCAGCAGTTTACACCTGCTAGGGTGTTCAAAGGTCAGTG |
| ex3_4506533_x44 | AF141346.1/1052-1111 | 37 | ###### | 73.8 | 44 | AGCCUGUGAUGCUUUAAGAGUAGUGGACAGAAGGGAUUUCUGAAAUUCUAUUCUGAGGCU |
| ex3_4516521_x44 | CM000681.2/57134260-57134049 | 17 | ###### | 34.2 | 44 | CACTTTATACTTTTAGGGATGATTTCTATAATTCATGAGTGGAGAGGTTTCTCTAGAGGTGTAGGGGACTGGAAACCACATCCAGGAAGTACAGCTTTCTCTCCTGAGCATGAAGGTATCTTGGCATTTCTTCACTGCAATTGCCATTTGCCTTTTTTGTTTTTCCTTTTGAGATAGGGTGTCACCTGTTGCCCAGGCTGGAGGGCAGTGGT |
| ex3_4519077_x43 | CM000673.2/62853968-62853904 | 23 | ###### | 46.1 | 43 | TTTCTATGATGAATCAAACTAGCTCACTATGACCGACAGTGAAAATACATGAACACCTGAGAAAC |

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|---|---|---|---|---|---|---|
| ex3_4523506_x43 | CM000663.2/154259727-154259862 | 28 | ###### | 56 | 43 | GGGCATACCCGTAGACCTTGTCTGACTGTGCTCATGGCCAGGCAGGGGGGACAGTGTATGCAAGAGTAATGTGGAGTTTGTGCTAACTCTAGCCAGCTTAATTAGTGACTGGATAAATTGCACAACTCTCACATTC |
| ex3_4525140_x43 | AC010361.3/23932-23994 | 26 | ###### | 52 | 43 | GUGCAUGUGAUGAAGCAAAUCAGUAUGAAUGAAUUCAUGAUACUGUAAACGCUUUCUGAUGUA |
| ex3_4526043_x43 | CM000663.2/44775864-44775943 | 23 | 4E-08 | 46.1 | 43 | CGTGTATGATGACAACTCGGTAATGCTGCATACTCCCGAGTGCGCGGTGGGGAAGCCAACCTTGGAGAGCTGAGCGTGCG |
| ex3_4537956_x42 | AJ224026.1/1-80 | 29 | 2E-11 | 58 | 42 | GUGCCCUGCCUCUGAUGAAGCCUGUNUUGGUAGGGACAUCUGAGAGUAAUGAUGAAUGCCAACCGCUCUGAUGGUGGCAC |
| ex3_4539636_x42 | CM000682.2/49280319-49280409 | 33 | ###### | 65.9 | 42 | GCTGGCATATATGATGACTTAGCTTTTTTCCCCGACAGATCGACTATGTTGATCTAACTTTTCTAAGCCAGTTTCTGTCTGATATGCCAGC |
| ex3_4544282_x41 | ENST00000408376.1 | 20 | ###### | 40.1 | 41 | TGATGACTGTTCTTCCTGTTGCCTTCAGACCTGGCATTAGGATTTTAGGTCATCATAAAT |
| ex3_4547193_x41 | ENST00000384693.1 | 22 | ###### | 44.1 | 41 | GTTTGTGATGACTTACATGGAATCTCGTTCGGCTGATGACTTGCTGTTGAGACTCTGAAA |

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| ex3_4548915_x41 | AF141346.1/1275-1356 | 28 | ###### | 56 | 41 | UGCCACAAUGAUGACAGUUUAUUUGCUACUCUUGAGUGCUAGAAUGAUGAGGAUCUUAACCACCAUUAUCUUAACUGAGGCA |
| ex3_4551523_x40 | ENST00000459433.1 | 31 | 1E-12 | 61.9 | 40 | GGTTCATGATGACACAGGACCTTGTCTGAACATAATGATTTCAAAATTTGAGCTTAAAAA |
| ex3_4566668_x39 | AC006435.7/3490-3399 | 27 | ###### | 54 | 39 | UAGAGAAGUCAAUGAUGGUUUUAUUCAUAUCGUCUGAACCUGUCUGAAGCAUCUCAGUGAUGCAAUCUCUGUGUGGUUCUGAGACUUCUCCA |
| ex3_4567526_x39 | AF141346.1/3076-3157 | 48 | ###### | 56 | 39 | CCGAUACAAUGAUGAUAACAUAGUUCAGCAGACUAACGCUGAUGAGCAAUAUUAAGUCUUUCGCUCCUAUCUGAUGUAUCUG |
| ex3_4567565_x39 | CM000663.2/173866028-173865968 | 35 | 5E-15 | 69.9 | 39 | CCTGGATGATGATAAGCAAATGCTGACTGAACATGAAGGTCTTAATTAGCTCTAACTGACT |
| ex3_4571348_x39 | CM000682.2/49280683-49280772 | 29 | ###### | 58 | 39 | GCCTTTGCAGCTGATGATACAGCTTCTTTCCCCATCAGATCGACCCTGTTGATCTCTACACTATTGGCCAGTTTTGTCTGATGCATTGGC |
| ex3_4571738_x39 | AB061826.1/4476-4547 | 23 | ###### | 46.1 | 39 | AGCUUAAUGAUGACUGUUUUUUUGAUUGCUUGAAGCAAUGUGAAAAACACAUUUCACCGGCUCUGAAAGCU |
| ex3_4572362_x39 | ENST00000384072.1 | 25 | ###### | 50.1 | 39 | TGGTCATTACCAAGGCTTTTAGAATGCAGTTTCTCATTTGCTGTGGACATGACCATAAAA |

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| ex3_4575363_x38 | CM000673.2/62854695-62854621 | 27 | ###### | 54 | 38 | GTCAGATGATTTGAATTGATAAGCTGATGTTCTGTGAGGTACAAAAGTTAATAGCATGTTAGAGTTCTGATGGCA |
| ex3_4584027_x38 | AM055745.1/1-178 | 28 | ###### | 56 | 38 | ACCUUCUUGUAUAAGCACUGUGCUAAAAUUGCAGACACUAGGACCAUGUCUUGGUUUUUGCAAUAAUGCUUGCAGAGUACACACAAGAAGAAAAGUAACAGCACUAGAUUGUAAAGACUGGGGUGGACCUCUUUCUUAAUGUCCAAUGUCCUUUGUCUUAAGAUUUGGUGCAAUAUCU |
| ex3_4595578_x37 | ENST00000408587.1 | 38 | 1E-16 | 75.8 | 37 | CAGCCTGAAGTGATGATTCACATTCATGTCTCTTCTCTGATAAATTCTTGAAGAAAATTT |
| ex3_4597576_x37 | ENST00000384096.1 | 27 | ###### | 54 | 37 | CTCCATGTATCTTTGGGACCTGTCAGCCGTGGCAGTCTCCCTTCCTAGCCATGGAAGAGC |
| ex3_4598242_x37 | AB017710.1/1702-1771 | 24 | ###### | 48.1 | 37 | AAUCAAUGAUGAAACCUAUCCCGAAGCUGAUAACCUGAAGAAAAAUAAGUACGGAUUCGGCUUCUGAGAU |
| ex3_4598575_x37 | CM000684.2/29333258-29333163 | 14 | ###### | 28.2 | 37 | ACCCCTGGCAGCCCCTCCTGATGATTCTTCTTCCTGAGCACGCTCATGATGAGCAAACTGAGCCTCTAAGAAGTTGACTGAAGGGGCTGCTTCCCC |
| ex3_4598649_x37 | ENST00000390994.1 | 34 | ###### | 67.9 | 37 | AGCTTATCAGTGATGTTGTAAAAATAAATGTCTGAACATATGAATGCAGTATTGATTTCA |

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| ex3_4599877_x36 | AC093484.2/162015-162087 | 21 | ###### | 42.1 | 36 | AAAUGAUGAAAUCACCCAAAAUAGCUGGAAUUACCGGCAGAUUGUGUAGUGGUGAACCUAUGGUUUUCUGAAG |
| ex3_4601461_x36 | ENST00000365444.1 | 51 | ###### | 61.9 | 36 | CGATGTTATGATGATGGGCGAAATGTTCAACTGCTCTGAAGGGGCTGAATGAAAATGGCC |
| ex3_4602577_x36 | AJ010676.1/1-70 | 24 | ###### | 48.1 | 36 | GCUGUGAUGACAUUCCAAUUAAAGCACGUGUUAGACUUCUGACGCGGGUGAUGCGAACUGGAGUCUGAGC |
| ex3_4612047_x35 | CM000678.2/2155105-2155023 | 20 | 2E-06 | 40.1 | 35 | AGTCTGTGATGAATTGCTTTGACTTCTGACACCTCGTATGAAAACTGCACGTGCAGTCTGATTATTTAGCAAGACTGAGGCTT |
| ex3_4613622_x35 | ENST00000581525.1 | 39 | 0.008 | 30.2 | 35 | CGTGTATGATGACAACTCGGTAATGCTGCATACTCCCGAGTGCGCGGTGGGGAAGCCAAC |
| ex3_4614812_x35 | ENST00000459004.1 | 20 | 2E-06 | 40.1 | 35 | TTGCATGTGGAAATGTCTGCTTCTCATTCCTTGGGAGCAGGAATATGTTCATAACATGCT |
| ex3_4620657_x35 | ENST00000606769.1 | 17 | ###### | 34.2 | 35 | AAGCAACACTCTGTGGCAGATGATCAAAACTGTCTGACACAATTTGAGCTTGCTATAGCA |
| ex3_4629699_x34 | ENST00000516624.1 | 24 | ###### | 48.1 | 34 | ATGCATCTATTTGACAGACCTGGAGTAGTTACTGTCTGCTGCTAAGGTTTCCACTACAGA |
| ex3_4632045_x34 | ENST00000408189.1 | 31 | ###### | 61.9 | 34 | TTGCAGTGATGACTTGCGAATCAAATCTGTCAATCCCCTGAGTGCAATCACTGATGTCTC |

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| ex3_4632657_x34 | L44140.1/70716-70850 | 43 | ###### | 85.7 | 34 | CCGCAGCCAAUUAAGCCGACUGAGUUCCUUUCCUCAUGGGGACCCAGUGUGCGAUGGCUGCACACAGCAGCUUCCUUGGUAGUGUACGCAGCCUGUUGGUUGUAUGGGUUGCUCUAAGGGACCUUGGAGACAGGC |
| ex3_4638765_x33 | CM000677.2/25074114-25074215 | 14 | 0.008 | 28.2 | 33 | AGGTTGATGATGACTTACATATATACGTTTTTTTTTTTTTTTTGGAAAGGTGAACAAAATGAGTGAAAACTCAGTACCATCATCCTCATCTAACTGAGGTCC |
| ex3_4639920_x33 | ENST00000383884.1 | 30 | 5E-07 | 44.1 | 33 | TGCAGATGATGTAAAAGAATATTTGCTATCTGAGAGATGGTGATGACATTTTAAACCACC |
| ex3_4648830_x33 | GL000250.2/3167878-3167940 | 40 | 7E-18 | 79.8 | 33 | AGTGATGATGACCCCAGGTAACTCTGAGTGTGTCGCTGATGCCATCACCGCAGCGCTCTGACC |
| ex3_4650638_x32 | ENST00000410557.1 | 24 | ###### | 48.1 | 32 | TGATGGCTGTTCCTCTCACTGCTTGAAGCCTTAGGCAGTGGGATTTTGATCCATCATATA |
| ex3_4651214_x32 | ENST00000516327.1 | 14 | ###### | 28.2 | 32 | AGTTACTGTCTGCTGCTAATGTTTCCACTACAGATACAAGAAAAAGTCTCTTCACACTTT |

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| ex3_4653966_x32 | L07382.1/2-208 | 23 | 4E-08 | 46.1 | 32 | CCAACGUGGAUACACCCUGGGAGGUCACUCUCCCCGGGCUCUGUCCAAGUGGCGUAGGGGAGCAUAGGGCUCUGCCCCAUGAUGUACAAGUCCCUUUCCACAACGUUGGAAAUAAAGCUGGGCCUCGUGUCUGCGCCUGCAUAUUCCUACAGCUUCCCAGAGUCCUGUCGACAAUUACUGGGGAGACAAACCAUGCAGGAAACAGCC |
| ex3_4656334_x32 | ENST00000386148.1 | 38 | 5E-07 | 44.1 | 32 | GATCCTGGTGATGACAGACGACATTGTCAGCCAATCCCCATGTGGTAGTGAGGACATGTC |
| ex3_4659662_x32 | ENST00000365607.2 | 35 | ###### | 69.9 | 32 | CTTCCTATGATGAGGACCTTTTCACAGACCTGTACTGAGCTCCGTGAGGATAAATAACTC |
| ex3_4662923_x31 | AJ609459.1/1-132 | 32 | ###### | 56 | 31 | CUUCCCAUUUAUUUGCUGCUUGUAGUCUCACAGUGAUACGAGCAGUUAUACGCAUGGGAUAAAAUAACAUUGGGCCACUGUAAAUUGAGAUGAAGUAACCAUUUUCAUCUCUUCUGCAGGGACUAGACAUUG |
| ex3_4664349_x31 | ENST00000410433.1 | 21 | ###### | 42.1 | 31 | GCTGGCATATATGATGACTTAGCTTTTTTCCCCGACAGATCGACTATGTTGATCTAACTT |
| ex3_4665372_x31 | ENST00000383893.1 | 33 | ###### | 65.9 | 31 | GGTCAATGATGAGTTGGCATGTATTCTGAATCTAAAGTTGATTATTACTACTTTAGCTCT |
| ex3_4670611_x31 | ENST00000384512.1 | 33 | 1E-13 | 65.9 | 31 | GGTCAATGATGTGTTGGCATGTATTATCTGAATCTATTGCTGATGTGTAATAACACTTTA |

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| ex3_4678773_x30 | AF141346.1/1960-2019 | 26 | ###### | 52 | 30 | CCUGGAUGAUGAUAGCAAAUGCUGACUGAACAUGAAGGUCUUAAUUAGCUCUAACUGACU |
| ex3_4697177_x29 | CM000672.2/43417438-43417249 | 15 | ###### | 30.2 | 29 | TAGGCGGCTTTCAGGGATCATTTCTATAGTCTGCTACTAGAGTACTTTCTGTGAAAGTGTAGAGCCCCCGGAAACGACAGGAGGTGCAGTTTTCTCCTGAGTGTGAAGCCGGCGCTTGGTGTTGCTTTCGCCATTGAGGTTTCTTCTCCTCCGTGGGGGAATGAGAGGGAGAGGACACAGGCTGAATGGT |
| ex3_4697641_x29 | ENST00000363961.1 | 22 | ###### | 44.1 | 29 | TTGCAGTGATGTAAAATTTCTTGGCCTGAAATTACTGTGAAGAGTAAAACCGAGCTTTTT |
| ex3_4710446_x28 | AJ224027.1/1-88 | 19 | ###### | 38.2 | 28 | UACUGUUAGUGAUGAUUUUAAAAUUAAAAGCAGAUGGGAAUCUCUCUGAGAAAGAAAAUGGGAGAUUAAUCCUUAACCUGAAACAGUA |
| ex3_4714702_x28 | ENST00000362761.1 | 27 | 2E-10 | 54 | 28 | GCGGCCGGTGATGAGAACTTCTCCCACTCACATTCGAGTTTCCCGACCATGAGATGACTC |
| ex3_4715710_x28 | CM000673.2/62855366-62855292 | 21 | 5E-07 | 42.1 | 28 | CTACGGGGATGATTTTACGAACTGAACTCTCTCTTTCTGATGGATTAGTGGAGAAAACAGAAAATTCTGAGTAGC |
| ex3_4715794_x28 | KN196479.1/175490-175564 | 38 | 1E-16 | 75.8 | 28 | TGCAGATGATGTAAAAGAATATTTGCTATCTGAGAGATGGTGATGACATTTTAAACCACCAAGATCGCTGATGCA |
| ex3_4716522_x28 | ENST00000365223.1 | 38 | 3E-14 | 67.9 | 28 | TTGCTGTGATGACTATCTTAGGACACCTTTGGAATAACTATGAAAGAAAACTATTCTGAG |

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| ex3_4717334_x28 | CM000664.2/28927983-28928060 | 26 | 8E-10 | 52 | 28 | TTGCTGTGATGACTATCATTGGGTTTCGCATGTTGCTGAGTTCCAGTGATGCCTCTTTTCTCTTGGCTGTCTGAGCAA |
| ex3_4718849_x27 | ENST00000384550.1 | 26 | ###### | 52 | 27 | TGGATATGATGACTGATTACCTGAGAAATAATTGATGAAATCTCAAGAAAATTCCTCTAG |
| ex3_4719713_x27 | AC078797.20/67061-67136 | 27 | ###### | 54 | 27 | UUCCUCUGAUGACUUCCUGUUAGUGCCACGUGUCUGGGCCACUGAGACACCAUGAUGGAACUGAGGAUCUGAGGAA |
| ex3_4721900_x27 | CM000665.2/186784796-186784864 | 39 | 3E-17 | 77.8 | 27 | AAGTGAAATGATGGCAATCATCTTTCGGGACTGACCTGAAATGAAGAGAATACTCATTGCTGATCACTT |
| ex3_4722656_x27 | AC011031.12/168663-168575 | 20 | 2E-06 | 40.1 | 27 | GCUGGCACAAUGAUGACUUAAAUUACUUUUUGCCGUUUACCCAGCUGAGGUUGUCUUUGAAGAAAUAAUUUUAAGACUGAGAUGCCAGU |
| ex3_4723790_x27 | AC097720.5/99784-99861 | 25 | 3E-09 | 50.1 | 27 | AUGCUAUGAUGACAUCCAUAUGGUUUCGCUGCUGGCUGAGUUUCAGAGAUGACACCUUUCUCUUGGCUGUCUGAGCAU |
| ex3_4731782_x27 | ENST00000408813.1 | 29 | 2E-11 | 58 | 27 | TGGCCAAGGATGAGAACTCTAATCTGATTTTATGTGCTTCTGCTGTGATGGATTAAAGGA |
| ex3_4733115_x26 | ENST00000384674.1 | 21 | 5E-07 | 42.1 | 26 | ACTCTCTCGGCTCTGCATAGTTGCACTTGGCTTCACCCGTGTGACTTTCGTAACGGGGAG |

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| ex3_4734207_x26 | ENST00000516652.1 | 16 | 0.0006 | 32.2 | 26 | GCTACTCTTGAACTCCTGACCTCAACTGATCCACCCGCCTCGGCCTCCCAAAGTATGAAA |
| ex3_4734727_x26 | ENST00000384762.1 | 23 | ###### | 46.1 | 26 | AGCACTATATTTAAACCTGTGGATGGGAATATTCCCCATTCTTGGTTACGCTGTAGTGCA |
| ex3_4735247_x26 | AC097720.5/86379-86467 | 36 | ###### | 71.9 | 26 | UGGUGCUGUGAUGAUGCCUUAAUAUUGUGGUUUCGACUCACUGAGAGUAAAAUGAGGACCUACAAUUCCUUGGCUGUGUCUGAGCACCC |
| ex3_4736677_x26 | ENST00000390856.1 | 21 | ###### | 42.1 | 26 | TTCCTCTGATGACTTCCTGTTAGTGCCACGTGTCTGGGCCACTGAGACACCATGATGGAA |
| ex3_4741045_x26 | AF492209.1/1-275 | 28 | 6E-11 | 56 | 26 | AAUCUGUAGUCUUGGAGCCGCACAGGGUUGGUGGUACCCUCGAGCACACCAGACUUGCAGAAAAAGCAUACUCCAGAGGAAGCUGAGGCAUGCCUGCUCGAGAGCCAGCUGUUCCAUGUGCAAUUUUCCUCUGAUAGUUUCUGGUCACUGUUGCCACGGUGAUAAUGACUGGGCUAUGUCAUUAUCUAUCCGCCAACAGUAAGAGAAGCUUUGCAGUCGAGAUAUUGUUUAGCAGAUGGAGUGUUUUCUGUUGAACACUAAGUACUGCCACAAGU |
| ex3_4742007_x26 | ENST00000386910.1 | 29 | 2E-11 | 58 | 26 | CCCCTATCTCTCATGATGAACACATATGCCTCTGAGCTGCTGTGATTTCTGGCTTCAAAG |
| ex3_4743619_x26 | ENST00000439232.2 | 21 | 5E-07 | 42.1 | 26 | ACTCACTCACTGCCCTATTTTGTCCCTGTATTCGAAAGTGATCGTGGGCTGCCTTTGCCC |

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|---|---|---|---|---|---|---|
| ex3_4751321_x25 | CM000681.2/3982572-3982507 | 32 | 3E-13 | 63.9 | 25 | ATTCGTGATGACTGATCATTTCTTCACTTTGACCAGATGTCTACTGAAGAAAGCCTGCGTCTGAGG |
| ex3_4751446_x25 | ENST00000386307.1 | 47 | ###### | 54 | 25 | GCTGGTGTAAATGATGACTTCACTTTTTTCCCCATCAGATCGACAATGCTGACGTCTTAT |
| ex3_4754496_x25 | L36588.1/797-921 | 25 | 3E-09 | 50.1 | 25 | UCCCAAUGAAGAAACUUUCACAUGUCUUACUCUCUGUCCUAGUCCCAGAGCCUGUAAAGGUGAACCACUGGGACUGGCUGGGGGAGAAGAGGAAGAUUUGUUCCAGAAGGAACUGUCUGAGGGAU |
| ex3_4754746_x25 | ENST00000628590.1 | 28 | ###### | 56 | 25 | ACGCGCTGTCTTTGAGCCCCCGCCGAGCTTCCTCGTGGCGCCGGGGGTCAATCTGCAGCG |
| ex3_4758471_x25 | GL000250.2/3169692-3169758 | 27 | ###### | 54 | 25 | GGGAATGATGATTTCACAGACTAGAGTCTCCGATGCTGGTCATGATGTCAAAACTAAGTTCTGACTC |
| ex3_4758846_x25 | ENST00000365382.1 | 25 | 3E-09 | 50.1 | 25 | TCGCTGTGATGAGTGATTGTTAAACATTCGTAGTTTCCACCAAAAGCTTGGCTAATGATG |
| ex3_4763971_x25 | ENST00000364432.1 | 24 | ###### | 48.1 | 25 | CCCGCCACTGCACCTGACCAGGTCTCTGTTGGCTGGTGCAATCCAGTGGTGAGCTGATAG |
| ex3_4764246_x25 | ENST00000365493.1 | 20 | ###### | 40.1 | 25 | TGTGCACATTGTTAGAGCTTGGAGTTGAGGCTACTGACTGGCCGATGAACTCGCAAGTGT |

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| ex3_4766864_x24 | ENST00000458770.1 | 23 | ###### | 46.1 | 24 | CCACATGCGGCTGATGACAGCACTTCTGCTGAGACGCTGTGATTGCTCTGTCCAAAGTAA |
| ex3_4767536_x24 | CM000664.2/231460440-231460371 | 26 | 8E-10 | 52 | 24 | AGCACAAATGATGAATAACAAAGGGACTTAATACTGAAACCTGATGTTACATTGTAGTGTGCTGATGTGC |
| ex3_4774352_x24 | AY077740.1/1-330 | 21 | ###### | 42.1 | 24 | UGGAAAUGAUGAAAUAGAGAUAAUUGGGUGUUGAAUGUUGUAUGACUGGAAAUUUUUAAUAUGUAUAUUAUGUAAUUCUUAUAAGUUUAGUGUUUUAUAGGUACUUAAUAGAGAGUGUGUAUGCAUGUGUGUGUGCUUGUGGUGGCUAUGGAAAGGGGGCACUGACUGGUGAUGCUGAUAUUGGAGUGCAUCUGAGGCUGUUGUAGAAAUAACAUGGGUUGUUGAUUACAACAUUGCCAAUGAUUAUAACCCAAGAACAGCUCACCUAACUAGCCUGGCACCCUAAAAUCUCUAACAGGUUCAUUAAAAUGGUCCUGUGAUCUGAUCCAA |
| ex3_4777088_x24 | ENST00000363753.1 | 14 | 0.008 | 28.2 | 24 | CAGTAGTGATGAAATTCCACTTCATTGGTCCGTGTTTCTGAACCACATGATTTTCTCGGA |
| ex3_4789817_x23 | CM000682.2/38433998-38433865 | 25 | ###### | 50.1 | 23 | ACCTGTATTCGAAAGTGATCGTGGGCTGCCTGTGCCCTGGTCATTGATAGTGCAGGGAGAGAAATCGCGGAAAGTGCTTCCCCGTGTTTGGAGGGTCCGCTCCTGTCCCTTTCAAACTCTGGAGCTTTCTCACA |

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| ex3_4793957_x23 | ENST00000384567.1 | 29 | ###### | 58 | 23 | ATGCGATGATGAGTGAAGTAGAGCCTGACCTGGTATTGCCATTGCTTCACTGTTGGCTTT |
| ex3_4796395_x23 | CM000667.2/181241892-181241814 | 28 | 6E-11 | 56 | 23 | GGTCCTGGTGATGACAGATGGCATTGTCAGCCAATCCCCAAGTGGGAGTGAGGACATGTCCTGCAATTCTGAAGGGATT |
| ex3_4798777_x22 | ENST00000505219.1 | 27 | ###### | 54 | 22 | GGGCATACTCGTAGACCTTGCCTGACTGTGCTCATGTCCAGGCAGGGGGGACAGTGTATG |
| ex3_4801615_x22 | ENST00000384323.1 | 27 | ###### | 54 | 22 | TACCCCCTTTTCACTTTGCCAGTTGGACTTATGTCTTTATTGGTCATTCAAGTGGGGCAA |
| ex3_4804387_x22 | CM000667.2/138561110-138561043 | 31 | 1E-12 | 61.9 | 22 | GTGCAATGATGTATTTTATTCAACACATCATTCTGAAAGAACGTGTGGAAAACTAATGACTGAGCACA |
| ex3_4809733_x22 | AK095849.1/803-874 | 28 | ###### | 56 | 22 | ACUCCAUGAUGAACACAAAAUGACAAGCAUAUGGCUGAACUUUCAAGUGAUGUCAUCUUACUACUGAGAAGU |
| ex3_4809887_x22 | AB061824.1/2400-2464 | 22 | ###### | 44.1 | 22 | CUGCAGUGAUGACUUUCUUGGGACACCUUUGGAUUUACCGUGAAAAUUAAUAAAUUCUGAGCAGC |
| ex3_4810745_x22 | AF019618.1/48-114 | 21 | ###### | 42.1 | 22 | GGAUUUGUGAUGAGCUGUGUUUACUGAGCAUGAUGAAGUAAAGCUCAACGUGAUUACUCUGAAGUCC |
| ex3_4815311_x21 | ENST00000384714.1 | 21 | 5E-07 | 42.1 | 21 | CTTCAGTGATGACACGATGACGAGTCAGAAAGGTCACGTCCTGCTCTTGGTCCTTGTCAG |

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| ex3_4822136_x21 | ENST00000384304.1 | 32 | ###### | 63.9 | 21 | CCTTCTATGATGATTTTATCAAAATGACTTTCGTTCTTCTGAGTTTGCTGAAGCCACATT |
| ex3_4824320_x21 | AJ609486.1/1-187 | 21 | 5E-07 | 42.1 | 21 | ACGGUCUGGGGAAAGGCUCCUGUGUUGUUGAGCCUGCCAAGUUGUGGGUGCAGCAUGGUACCAGGCAGCCCAACCCUGACCUAAAGUAAAUUCCCGGAAGAAGUCUUUCCUGGGUUUUGAAUUUGCAGUAACAGGUGUGAGCAUUCUAGCAGCAGUUUGAUGAUCAUGUAUGAUACUGCAAACAGGA |
| ex3_4829213_x21 | AC018607.12/34735-34867 | 31 | ###### | 61.9 | 21 | AGCCUCAUGCUAGAUGAGAAUGGGCACUGUUGAUCAAGGUGUCCAAAAAUAGUUAAUGUGGCUAAAUUGAGAUAGGUUAUGCUUCCAUCACAGUAUGCAUAUUGCAGUGGUGACAAUGAGACCUGUAACAUUU |
| ex3_4835196_x20 | ENST00000364578.1 | 19 | ###### | 38.2 | 20 | AAGCAGGATTCAGACTACAATATAGCTGTTAAGTGCTGTATTGTCATTCCCCCTGCTCAA |
| ex3_4839376_x20 | CM000682.2/2656624-2656694 | 21 | 5E-07 | 42.1 | 20 | CCACAATGATGGCAATATTTTTCGTCAACAGCAGTTCACCTAGTGAGTGTTGAGACTCTGGGTCTGAGTGA |
| ex3_4841036_x20 | AJ609465.1/1-134 | 35 | 5E-15 | 69.9 | 20 | UGGUAAUGGAUUUAUGGUGGGUCCUUCUCUGUGGGCCUCUCAUAGUGUACCCAUGCCAUAGCAAAUGGCAGCCUCGAACCAUUGCCCAGUCCCCUUACCUGUGGGCUGUGAGCACUGAAGGGGGUUGCACAGUG |

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| ex3_4844496_x20 | ENST00000364089.1 | 30 | ###### | 60 | 20 | TCCAGCGGTTGTCAGCTATCCAGGCTCATGTGGTGCCTGTGATGGTGTTACACTGTTGGA |
| ex3_4847276_x20 | AJ609467.1/1-135 | 29 | 2E-11 | 58 | 20 | AGCACUAUAUUUAAACCUGUGGAUGGGAAUAUUCCCCAUUCUUGGUUACGCUGUAGUGCAAAAGAAUUCCUGGCUCUCUGUUGCACAGCUGACUUGUGCCAUUCUGCUGUUGCUGUAUAGAGUUAAGGAACAUGG |
| ex3_4852496_x19 | ENST00000384342.2 | 23 | 4E-08 | 46.1 | 19 | CCCTTGGCCCTTATCGAAGCTGCAGCTGCTTCCGCATAGCTGCTGTGGTCAAAAAGGAGC |
| ex3_4853560_x19 | AJ007733.1/1-97 | 22 | 1E-07 | 44.1 | 19 | AUGCGAUGAUGAGUGAAGUAGAGCCUGACCUGGUAUUGCCAUUGCUUCACUGUUGGCUUUGACCAGGGUAUGAUCUCUUAAUCUUCUCUCUGAGCUG |
| ex3_4858766_x19 | ENST00000364849.1 | 24 | 1E-08 | 48.1 | 19 | GCTGGCACAATGATGACTTAAATTACTTTTTGCCGTTTACCCAGCTGAGGTTGTCTTTGA |
| ex3_4858861_x19 | ENST00000607313.1 | 36 | 1E-15 | 71.9 | 19 | CTGCGATGATGGCATTTCTTAGGACACCTTTGGATTAATAATGAAAACAACTACTCTCTG |
| ex3_4860020_x19 | AC092123.4/24307-24224 | 23 | 4E-08 | 46.1 | 19 | UGAUGACAUUCUCCGGAAUCGCUGUACGGCCUUGAUGAAAGCACAUUUGAACCCUUUUCCAUCUGAUUGCUGAGGCUUUUCAUC |
| ex3_4863687_x19 | AJ224023.1/1-67 | 31 | 1E-12 | 61.9 | 19 | GUGCAUAUGAUGGAAAAGUUUUAAUCUCCUGACACUUGUGAUGUCUUCAAAGGAACCACUGAUGCAC |
| ex3_4867031_x19 | CM000679.2/16440036- | 26 | ###### | 52 | 19 | TGCTCTGATGAAATCACTAATAGGAAGTGCCGTCAGAAGCGATAACTGACGAAGACTACTCCTGTCTGATT |

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| ex3_4867981_x19 | ENST00000384252.1 | 27 | 2E-10 | 54 | 19 | GCTATGATGAATTTGATTGCATTGATCGTCTGACATGATAATGTATTTTTGTCCTCTAAG |
| ex3_4868779_x19 | ENST00000384384.1 | 23 | 4E-08 | 46.1 | 19 | GGGTCATTTCAAAGAGGGCTTATGAGGCTGTGAAACCCAGAGCTCTTAACGCTGTGACCA |
| ex3_4874957_x18 | AK025846.1/2178-2094 | 25 | ###### | 50.1 | 18 | UACUGUUAGUGAUGAUUUUAAAAUUAAAGCAGAUGGGAAUCUCUCUGAGAAAGAAAAUGGAGAUUAAUCUUAAACUGAAACAGUA |
| ex3_4878377_x18 | AC055855.9/110736-110601 | 22 | 2E-07 | 44.1 | 18 | GUGACUGUUCCUGGUAUUGAUUGCAUUUGUUAGUUGUACAGUGCAACCAUAGACAGUCACACACAUUAAAACAGAUGGUUCCUGCCGACAGGGUCUGUAUAGUUAUCAGAUUUUCUGUGCGAUGGCUCCAUACAUG |
| ex3_4886819_x18 | ENST00000578179.1 | 18 | 3E-05 | 36.2 | 18 | GCAGACTCACTCTGCATCTGACTATACTTCCAGGCGGGTGCTTTTTCTGTCTGCCAGATA |
| ex3_4886909_x18 | ENST00000384262.1 | 24 | 1E-08 | 48.1 | 18 | GTGCAATGATGTATTTTATTCAACACATCATTCTGAAAGAACGTGTGGAAAACTAATGAC |
| ex3_4886981_x18 | AJ609471.1/1-132 | 38 | 1E-16 | 75.8 | 18 | GUUGAGGUCUAUCCCGAUGGGGCUUUUCCUGUAGCCUGCACAUCGUUGGAAACGCCUCAUAGAGUAACUCUGUGGUUUUACUUUACUCACAGGACUAUUGUUAGAUCUGUGGGAAGGAAUUACAAGACAGUU |

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| ex3_4897027_x17 | AC102799.9/53508-53611 | 37 | 4E-16 | 73.8 | 17 | UGGUCUCAAGGAAGGGAUGAUGUUCCAGUUGAGACUCAAGAAAAGGAUUCUGAGCCUCAGAGCUUUGAAGGAGCCACUUGGUCCCUGACCUUCCUAGAGGCAAA |
| ex3_4902841_x17 | ENST00000363548.1 | 24 | 1E-08 | 48.1 | 17 | ATGCAGGTACTGTTACAATACAACTGATGTGTTTTGTTGTCGTTCCCCCTGCTTAAAGCA |
| ex3_4905323_x17 | ENST00000391305.1 | 26 | 8E-10 | 52 | 17 | GCCGAGACTAGAGTCACATCCTGACACAACTCTTGTCCTGGTGTGCTAGAGTACTCGAAG |
| ex3_4906003_x17 | AC079951.35/128361-128226 | 16 | 0.0005 | 32.2 | 17 | UUGGCCCUGAAUCAAGGCCAGCAGUUUGCUGAAGCUGUUGGUUUCAAGCAGGAGCCUAAAGAAUUGUCUUUCUAUGGUCUGUUGGCCAUUUCAUAACUUUGGAAAUGUAAUGGUCAAUUCAUUAGAAAGAAACAUG |
| ex3_4910702_x16 | AJ609483.1/1-129 | 30 | ###### | 60 | 16 | ACUGGAGGACUAAGAAGGCUGAGUCUGAUGAAGUAAGACUUUGCUGAUACAUUCCUCCUAGAAAAAAGGGUUGGAGAGAGCAGCCUUCACUGAAGAGUAUCACAGGGCUGACUGUACUACCCAACACUC |
| ex3_4912190_x16 | ENST00000391002.1 | 33 | ###### | 58 | 16 | GCCTTTGCAGCTGATGATACAGCTTCTTTCCCCATCAGATCGACCCTGTTGATCTCTACA |
| ex3_4914062_x16 | CM000676.2/63479272-63479413 | 14 | 0.008 | 28.2 | 16 | GGCCTCTCTCCCATGGTGCTGTGGGTGGGGGAGGAGGGGTGCTTTTCTCCTCAGCGAAGACTGGAGGCAGACATCACCCCTCAAGGATCATCCTCAGAACTGCCACGTGCTGGACAGCCTTGTTTTTCTACCTCACACATTT |

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| ex3_4918926_x16 | GL000250.2/2868998-2868923 | 42 | 5E-19 | 83.8 | 16 | GCCAAATGATGTTTATTTGAAACAGGAGCACCTCAGTGCAAGGACGACTCTTATCTATCACCCATGACTGATGGCT |
| ex3_4922414_x16 | ENST00000363664.1 | 30 | 4E-12 | 60 | 16 | AAGCCAGCCAATGAATCTGCTTACCTGATTGTGTTTGTGCAGACATACTTTAAAAACTGG |
| ex3_4922782_x16 | ENST00000408314.1 | 29 | 2E-11 | 58 | 16 | GGGCCTCCATGATGTCCAGCACTGGGCTCCGACTGCCACTGAGGACACGGTGCCCCCCGG |
| ex3_4923758_x16 | AC013416.4/55441-55577 | 22 | ###### | 44.1 | 16 | UGCAGUCAAGUCAAAUUCAGUGCCCGUUUCUGUCAUAGCGGGGGCUGGCCCAGAUGGCUGCCACAGCAAGCUCCACAGCUCAUGGGCCCUGGGUCACCUACCCUGGGACCUGGGGAUAAGUUUGGCUGUGGACAGUG |
| ex3_4925102_x16 | ENST00000637869.1 | 15 | ###### | 30.2 | 16 | TTTATTATTATTGTTGTTGTTATTTTGAGTAGGACTCTCACTGTGTTGGCCAGGCTGGAG |
| ex3_4926926_x16 | ENST00000516978.2 | 19 | 8E-06 | 38.2 | 16 | GAGAAATGATGAGGGTCAACATTCTTCATACCAAAGTGAAGACATGAGATCCAACTCTGA |
| ex3_4928126_x16 | AJ609480.1/1-137 | 21 | 5E-07 | 42.1 | 16 | GAGCACCUGAAUCUUUCCCAUUCCUUGCUGCCUCGUGCCGGUGUGGGGACAGAUGGUGCUACAGAAUGAGCAGAGGAAAUCCAGACAGGUUGUUUCCAUUUGUCUUGGGGCCUGUCUCUACAGCUCUGCCACAUUU |

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| ex3_4930498_x15 | CM000684.2/39315307-39315213 | 41 | 2E-18 | 81.8 | 15 | GCTGTTCGTTGATGAGGCTCAGAGTGAGCGCTGGGTACAGCGCCCGAATCGGACAGTGTAGAACCATTCTCTACTGCCTTCCTTCTGAGAACAGC |
| ex3_4930903_x15 | CM000671.2/127448630-127448501 | 32 | 3E-13 | 63.9 | 15 | CCCGCCACTGCACCTGACCAGGTCTCTGTTGGCTGGTGCAATCCAGTGGTGAGCTGATAGTAAACCCCAGCTTAGGAAACAGGGTTGTTCTTCATGTGGATGACTCTGTGCCGAAAGCATGGGAACAGCC |
| ex3_4931293_x15 | AJ609485.1/1-127 | 22 | 1E-07 | 44.1 | 15 | CUGGAGACUAAGAAAAUAGAGUCCUUGAAAUCAAGCUGACUCUGCUUUUAGCCUCCUAAAUGAAAAGGUAGAUAGAACAGGUCUUGUUUGCAAAAUAAAUUCAAGACCUACUUAUCUACCAACAGCA |
| ex3_4932478_x15 | ENST00000383885.1 | 23 | 4E-08 | 46.1 | 15 | TAGGCCCTGAATCAAGACCAATGGTTTGCTGTAGCTGTTGGTTTCAAACAGGAGCTAAGA |
| ex3_4934638_x15 | AJ609466.1/1-132 | 23 | ###### | 46.1 | 15 | CAGCAUGUUUCCAAGGGCUGUGGCUGGUCAUAGCCAUGGGAUCUCCAACUGCAUGCAAGAGCAACCUGGAAAGACUUUGACAGCGCAGGUCAGUACAAUACCUGCAAGCUGCCACUCAGCUUUCCUAUAAUG |
| ex3_4945813_x15 | CM000670.2/9931823-9931720 | 14 | 0.008 | 28.2 | 15 | GTCCTTTTGTGGTTCATAAGCATGATGATTGGGTTTTCAGGCGATTGTGTGAGATGTGCCTCATTGAAACCTTGTTACGATGTCTGCCCATTACCCATCTGATG |

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| ex3_4951861_x14 | ENST00000626886.1 | 24 | 1E-08 | 48.1 | 14 | GCTGTCCTGGACCTGTTGGCACCACAGACAGTTGCTCTGCTGTGCCTGTGGCCTCGGGGC |
| ex3_4954829_x14 | D88010.1/2919-3009 | 21 | 5E-07 | 42.1 | 14 | UCACUAUGAUGAUUGGUUGCCAGACAUUCGCAGUUUCCACCAGAAAUGUUUUUCCUUAUGUUGGCCAGUUCUUCCUUGGAUGUCUGAGUGA |
| ex3_4959589_x14 | AL121809.6/172081-172016 | 21 | ###### | 42.1 | 14 | CUGUGAUGAUGGCAUUUCUUAGGACAAUUUUGGAUUAAUUAUGAAAACAACUACUCUCUGAGCAAU |
| ex3_4962165_x14 | ENST00000391145.1 | 34 | 2E-14 | 67.9 | 14 | TTATAAGTTTTCTAAGTGTCTAATGATGAATTTCATAGGGCAGATTCTGAGGTGAAAATT |
| ex3_4962767_x14 | CM000663.2/75787889-75787972 | 30 | 4E-12 | 60 | 14 | GGTCAATGATGTGTTGGCATGTATTATCTGAATCTATTGCTGATGTGTAATAACACTTTAGCTCTAGAATTACTCTGAGACCTT |
| ex3_4963649_x14 | ENST00000391100.1 | 24 | 3E-06 | 40.1 | 14 | TCCAGCAGTAGTCAGCCATCCGGACAGAACCGTTCCTGTGATGGTGTTACACTGCTGGGA |
| ex3_4966785_x14 | AC006064.10/138690-138555 | 34 | 2E-14 | 67.9 | 14 | UUGUCCUGGCCUAUUUUUCUGCUCCCCUGUGCUCAGUUCUAACAGGGUAGUCUGGCAGGACACACAGCAAUUCCCUCUCAGUUUAGGAGGGCCGUCCUAAGAAUAGGGCUGGCUCUUAAAGGCACGAGAGGACAAU |
| ex3_4969277_x14 | AC064836.7/31785-31868 | 28 | 6E-11 | 56 | 14 | GUGUUCAAUGAUGAUUUCUAUUUGUUUGCCUGAUUUCCUUUUGGAUAAUGAAGGCAUCUUUAGUCACUACCUCUUCUGAGACAC |

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| ex3_4970103_x14 | AJ609454.1/1-139 | 32 | ###### | 63.9 | 14 | UGCACUGCAUGGUAUCUGCACUCAGCAGUUUACACCUGCUAGGGUGUUCAAAGGUCAGUGCUAUAGAAAUUCAGUAUCUGGCAUCGUUGGUUUUCUUGGCUUUGUGCUUGUUAAACCUGGUAUUUCUACUGAUACAGUA |
| ex3_4971461_x14 | AB020236.1/2404-2533 | 22 | 1E-07 | 44.1 | 14 | AUCGAGGCUAGAGUCACGCUUGGGUAUCGGCUAUUGCCUGAGUGUGCUAGAGUCCUCGAAGAGUAACUGCUGACCUUAUUCACUGGCUGUGGGCCUUAUGGCACAGUCAGUCACCAGGUUAGAGACAUGC |
| ex3_4971629_x14 | ENST00000391150.1 | 21 | 5E-07 | 42.1 | 14 | AATGTGAAGCAAATGATGATAAACTGGATCTGACTGACTGTGCTGAGTCTGTTCAATCCA |
| ex3_4971965_x14 | AB061824.1/4441-4504 | 20 | ###### | 40.1 | 14 | UUGCUGUGAUGACUAUCUUAGGACACCUUUGGAAUAACUAUGAAAGAAAACUAUUCUGAGCAAC |
| ex3_4974525_x13 | AJ543324.1/2-73 | 34 | ###### | 67.9 | 13 | ACAAGCCUAUGAUGGUUAGUUAUCCCUGUCUGAAAAUCUGGACUGAGGGAAAUAAUCUAUUCUGAGGCUUAA |
| ex3_4975318_x13 | ENST00000384170.1 | 26 | 8E-10 | 52 | 13 | TAGCAAGCCTCCAGCGTGCTTGGGTCTGCAGTGACCCCGTGGATTCCTACAGGGCTTGCC |
| ex3_4978711_x13 | AC106804.4/74513-74420 | 24 | ###### | 48.1 | 13 | CAGCCUGAAAUGAUGACUCUUUAAAAAAUUUCAUGUCUCUUCUCUGACAUUUUUCUCUGGACACAGUUUUUGCCUUAUGAAUCUGAUCAGGCUG |
| ex3_4979179_x13 | ENST00000579969.1 | 51 | 3E-05 | 38.2 | 13 | ATGCTATGATGACATCCATATGGTTTCGCTGCTGGCTGAGTTTCAGAGATGACACCTTTC |

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| ex3_4988539_x13 | ENST00000364646.1 | 24 | 1E-08 | 48.1 | 13 | GCCCTCCTGGTGCTTACCACAGGCTGTGTTCTTACACTGACTGTATAGAATGAGAAGGTA |
| ex3_4988552_x13 | AK095288.1/748-880 | 22 | 1E-07 | 44.1 | 13 | CCCCCUUUUAAAAGCACUCAAUGGGCCUGUGGCUAAUGACCUAUUGAGCCGUCAAGAAAGGGGAGAGUGAAAACAUCGCUUUUGGGUGAAGUGGCAACAUGUGUUGUUUGCUUCAAUCGGUGGUGUGACAAGG |
| ex3_4989319_x13 | ENST00000363450.1 | 34 | ###### | 67.9 | 13 | AAGCAGGATTCAGACTACAATATAGCTGCTAAGTGCTGTGTTGTCGTTCCCCCTGCTTAA |
| ex3_4989579_x13 | AC016868.8/21258-21186 | 24 | 0.0006 | 32.2 | 13 | GUGUGAUGAAAUCACCCCAAAUAGCUGGAAUUACCAGCAGAUUGUGUAGUGGUGAACCUACAAUUUUCUGAAG |
| ex3_4993752_x13 | ENST00000384334.1 | 18 | 3E-05 | 36.2 | 13 | GCATGGCTGAATACTGTGTTCTTTTATCAGTAGTTTACACAGCCAGACACCATGCAAAAG |
| ex3_4994961_x13 | CM000673.2/123058995-123058909 | 25 | 7E-07 | 42.1 | 13 | TCGCTATGATGATGGATTCCAAAACCATTCGTAGTTTCCACCAGAAAGTCTTATGTTGGCCAGTTCCTTCCTTGGATGTTTGAGCGA |
| ex3_5000185_x12 | ENST00000364953.1 | 25 | 3E-09 | 50.1 | 12 | AGTGATGATGACCCCAGGTAACTCTTGAGTGTGTCGCTGATGCCATCACCGCAGCGCTCT |
| ex3_5003425_x12 | AL355075.6/193439-193515 | 28 | 6E-11 | 56 | 12 | AGUUUGCCAUGAUGAAAUGCAUGUUAAGUCCGUGUUUCAGCUGAUCAGCCUGAUUAAACACAUGCUCUGAGCAGACU |

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| ex3_5005633_x12 | ENST00000363946.1 | 25 | ###### | 50.1 | 12 | TCCTCCTACAAAGGCGTGTCTGTGGTTCCCTGTCTTTGGACACGTAAGAATTGGAGGAAA |
| ex3_5017825_x12 | ENST00000384416.1 | 20 | 2E-06 | 40.1 | 12 | GTTGAGGTCTATCCCGATGGGGCTTTTCCTGTAGCCTGCACATCGTTGGAAACGCCTCAT |
| ex3_5018725_x12 | ENST00000408716.1 | 35 | 6E-15 | 69.9 | 12 | GCAGACTCACTATGCACCTGACTGTACTTCCAGGCAGGTGCTTTTTCTGTCTGCCAGAGA |
| ex3_5020117_x12 | CM000677.2/66502910-66502812 | 28 | ###### | 56 | 12 | TGCAATGATGTCGTAATTTGCGTCTTACTCTGTTCTCAGCGACAGTTGCCTGCTGTCAGTAAGCTGGTACAGAAGGTTGACGAAAATTCTTACTGAGCA |
| ex3_5020309_x12 | AB028893.1/4087-4152 | 20 | 2E-06 | 40.1 | 12 | CGUCCAUGAUGUUCCGCAACUACCUACAUUGUUUGAUCCUCAUGAAAGCAGCACUGGCUGAGACGC |
| ex3_5021461_x12 | ENST00000459174.1 | 43 | 1E-19 | 85.7 | 12 | GGTGCAGATGATGACACTGTAAAGCGACCAAAGTCTGAACAAAGTGATTGGTACCTCGTT |
| ex3_5021737_x12 | ENST00000364995.1 | 38 | 1E-16 | 75.8 | 12 | AATCAATGATGAAACCTATCCCGAAGCTGATAACCTGAAGAAAAATAAGTACGGATTCGG |
| ex3_5022553_x12 | U43901.2/4011-4161 | 21 | 5E-07 | 42.1 | 12 | GCUGCACACUAUUAAAGCUCAGGGUGGAGGCCAGUCUUGGCUCAUGAACUUCUGAGUGUCGGAAGUGUGCUAUAUCAAUGGCAGGAUUUUCGCUAACACCAGUAGAGCUUGCCUCUAUGACUGGAGUUUGGUAGUACUCGCUGCCACAUAG |

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| ex3_5027872_x11 | AC018761.6/51237-51168 | 28 | 6E-11 | 56 | 11 | UGGGAAGUGAUGACACCUGUGACUGUUGAUGUGGAACUGAUUUAUCGCGUAUUCGUACUGGCUGAUCCUG |
| ex3_5027883_x11 | ENST00000384423.1 | 21 | 5E-07 | 42.1 | 11 | ATCCAAGGTGATTCCCTCTCCAAGGGGACATCAGTGCCTCTCAGGAAAGTAGCAGCTTGG |
| ex3_5028994_x11 | ENST00000365128.1 | 14 | ###### | 28.2 | 11 | GCTGTAATGTGTGCATAGGTTTCATCTGTGTCTGGTAGCAGTGTCTGTCTGTGTTTTTCA |
| ex3_5030985_x11 | ENST00000384215.1 | 33 | ###### | 65.9 | 11 | TAGCAAGCCTCCAGCGTGCTTGGGTCTGCGGTGACCCTATGCATTCCTTCAGTGCTTGCT |
| ex3_5032635_x11 | CM000667.2/139278781-139278978 | 37 | 4E-16 | 73.8 | 11 | TCCAGCGGTTGTCAGCTATCCAGGCTCATGTGGTGCCTGTGATGGTGTTACACTGTTGGAAGAGCAAACACTGTCTTTATTGAGGTTTGGCTCCAAGCACTGTTTTGGTGTTGTAGCTGAGTACCTTTGGGCAGTGTTTTGCACCTCTGAGAGTGGAATGACTCCTGTGGAGTTGATCCTAGTCTGGGTGCAAACAAT |
| ex3_5035066_x11 | ENST00000388090.1 | 23 | 4E-08 | 46.1 | 11 | TGCACTTATGTATGTTTTTGTTTAACGTGGACAAAGACTTACAGATAGGTGCAAAAAATA |
| ex3_5048629_x11 | ENST00000459155.1 | 24 | 1E-08 | 48.1 | 11 | CAGGCTGATGAGACTAAGGCGAATGCGACTCCGTGCTCTCTGGCCCTTGGCTCCTTGTTG |

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| ex3_5051308_x10 | L07383.1/1-153 | 30 | 4E-12 | 60 | 10 | UGUGCACAUUGUUAGAGCUUGGAGUUGAGGCUACUGACUGGCCGAUGAACUCGCAAGUGUAGGUAGUGUGCUACAUGAGGGGCAAGUUUUCGCUAACACCACAAGGGUCUCUGGCCCAAUGAGUGGAGUUUGAUAGUAAUUCUUGCUACAAGU |
| ex3_5051988_x10 | ENST00000459577.1 | 30 | 4E-12 | 60 | 10 | TGGTCTCAAGGAAGGGATGATGTTCCAGTTGAGACTCAAGAAAAGGATTCTGAGCCTCAG |
| ex3_5053918_x10 | ENST00000413522.1 | 26 | 8E-10 | 52 | 10 | CCACAATGATGGCAATATTTTTCGTCAACAGCAGTTCACCTAGTGAGTGTTGAGACTCTG |
| ex3_5054028_x10 | ENST00000362803.1 | 20 | 2E-06 | 40.1 | 10 | TGCAATGATGTCGTAATTTGCGTCTTACTCTGTTCTCAGCGACAGTTGCCTGCTGTCAGT |
| ex3_5055098_x10 | CM000666.2/54147264-54147461 | 22 | 0.009 | 28.2 | 10 | AAGACTCTACTTCCAGGTATAATTTCTATGGTTTATTACTGGAAAAGTTTCTCTAAATATGTGGATCGCTGGAAATAAGAGGAAGCACAGGGTTCTCCGAGTGAAGCTGGCTTTTGGAATTACTTGGCTGCAACTGTCATTTGCTACTTTAAGATTTTACTTATTGATTTTTTTTTTTGAGACAGAGTCTCACTCTGT |
| ex3_5057008_x10 | AF250841.1/2261-2352 | 21 | 5E-07 | 42.1 | 10 | GGAUCGAUGAUGACUUCCAUAUGUACAUUCCUUGGAAAGCUGAACAAAAUGAGUGAAAACUCUAUACCGUCAUCCUCGUCGAACUGAGGUCC |
| ex3_5059798_x10 | ENST00000386062.1 | 25 | ###### | 50.1 | 10 | AATAAGTGATGAAAAAAGTTTCGGTCCCAGATGATGGCCAGTGATAACAACATTTTTCTG |

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| ex3_5062638_x10 | ENST00000386745.1 | 23 | 4E-08 | 46.1 | 10 | GCTGTTCAGTGATGAGGCCTGGAATGTGCGCTGGGCACAGCGCCCGAGACAGACTGCGGA |
| ex3_5062938_x10 | ENST00000383870.1 | 40 | 7E-18 | 79.8 | 10 | CCTCCTTTTCTTGGCGGGGATCGGGCTTGTGGTGCCGCTCCCCGTAATGTACGGAGGAAG |
| ex3_5063198_x10 | AJ609477.1/1-132 | 30 | ###### | 60 | 10 | GGCCUCCUGGUGCUUACCACAGGCUGUGUUCUUACACUGACUGUAUAGAAAGAGGAGGUAGAGUAAACCUACCCCAUAUACACCUCAGCUCAGGCCCUGUGCCUGGUCUGUAUUGUGAAUGGGGGAACAUAG |
| ex3_5064198_x10 | ENST00000408454.1 | 31 | 1E-12 | 61.9 | 10 | GGGACCCCGTGATGTCCAGCACTGGGCTCTGACTGCCCCTGAGGACACGGTGCACCCCGG |
| ex3_5068968_x10 | ENST00000384356.1 | 20 | 2E-06 | 40.1 | 10 | CTGTGAATATTCTCGCTGTTCTGATTTTGTAATAATCACGATGGGCTAAACATTCGCAAT |
| ex3_5069588_x10 | ENST00000384033.1 | 34 | 2E-14 | 67.9 | 10 | GCTGCACACTATTAAAGCTCAGGGTGGAGGCCAGTCTTGGCTCATGAACTTCTGAGTGTC |
| ex3_5069998_x10 | ENST00000516231.1 | 30 | 1E-04 | 36.2 | 10 | TGAGATGAGATCATGCCATTGCACTCCAGCCTGGACGACAGAGCGAGACTTCATCTCAAA |
| ex3_5070598_x10 | AB028893.1/3145-3226 | 35 | 5E-15 | 69.9 | 10 | AGGUCAGUGAUGAGCAACAUUCACCAUCUUUCGUUUGAGUCUCACGGCCAUGAGAUCAACCCCAUGCACCGCUCUGAGACCU |
| ex3_5071048_x10 | ENST00000384360.1 | 25 | 3E-09 | 50.1 | 10 | GACCTCCTGGGATCGCATCTGGAGACTGCCTAGTATTCTGCCAGCTTCGGAAAGGGAGGG |

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| ex3_5072938_x10 | BL000002.1/98018519-98018714 | 30 | ###### | 60 | 10 | AGAGAAGCAAAGUGAUGAGUAAUACUGGCUGGAGCCCCAAAGAGGCACGUGUGUGUGUUUGUGUGUGUGUGUAUAUGCUUGUCAGUGCAUGCACGUGUAUGUCUGGGAGUACAAAUGGGUGCGACUGGUUGUAGGGAACUAGCUAUGUGCCUUCUAUUAGGCCAUGACAGUCAAACUGAUAAGAUCUGAUUGCUUC |
| ex3_5073588_x10 | CM000663.2/220200676-220200546 | 23 | 4E-08 | 46.1 | 10 | TTCCAAAGTGTTAAGTTCAGTTCAGGGTAGCTTCCCTGCTCTGTTAATTAAACTTTGGAACATTGAAACTGGCTAGGGAAAATGATTGGATAGAAACTATTATTCTATTCATTTATCCCCAGCCTACAAAA |
| ex3_5073928_x10 | ENST00000383953.1 | 20 | 2E-06 | 40.1 | 10 | GCTGAATGATGATATCCCACTAACTGAGCAGTCAGTAGTTGGTCCTTTGGTTGCATATGA |
| ex3_5075628_x10 | CM000677.2/64342566-64342698 | 14 | 0.009 | 28.2 | 10 | TGTTACTCTCTAGCTTAAGAACCTTTAATGTGGTGATGTCCATCTCATGTCATCCAGGGATAAAGCAACCCTTGTTTATCCCATCTTGGCTCTTGGTCTGTGCCCATGGCTGGTTCGTGCCTTGGATACATGG |
| ex3_5077258_x10 | ENST00000362541.1 | 22 | 1E-07 | 44.1 | 10 | TCTTAGTGACATAATTCTAATAGTTTGTTCCGACCTTCCACTGTGGACTCAATAGCAGGG |
| ex3_5078736_x9 | AL132709.5/155570-155499 | 33 | ###### | 65.9 | 9 | UGGAUCGAUGAUGACUGCUGGUGGCGUAUGAGUCUUACAUGAUGAAUACGUGUCUGGAACUCUGAGGUCCAU |
| ex3_5082174_x9 | ENST00000384583.1 | 43 | 1E-19 | 85.7 | 9 | TTGGCCCTGAATCAAGGCCAGCAGTTTGCTGAAGCTGTTGGTTTCAAGCAGGAGCCTAAA |

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| ex3_5085927_x9 | CM000673.2/75404421-75404566 | 21 | 5E-07 | 42.1 | 9 | CTTCAGTGATGACACGATGACGAGTCAGAAAGGTCACGTCCTGCTCTTGGTCCTTGTCAGTGCCATGTTCTGTGGTGCTGTGCACGAGTTCCTTTGGCAGAAGTGTCCTATTTATTGATCGATTTAGAGGCATTTGTCTGAGAAGG |
| ex3_5086287_x9 | ENST00000384437.1 | 28 | 6E-11 | 56 | 9 | ATTGCACCTAAACCCAAGAATCACTGTTTCTTATAGCGGTGGTTTAAACAGAGGTGCAAA |
| ex3_5086944_x9 | CM000675.2/45336447-45336314 | 22 | 1E-07 | 44.1 | 9 | ATGCATCTATTTGACAGACCTGGAGCAGTTGCTATCTGCTGCTATGGTTTCCACCACAGATGCAAGAAGAACATGTCCTTGCGCTTTCCGTCTGTCTAATTGTGGCAGCTGAGATTGAATAGAGGAATACAGGA |
| ex3_5088519_x9 | ENST00000364968.1 | 24 | ###### | 48.1 | 9 | ACAAGCCTATGATGGTTAGTTATCCCTGTCTGAAAATCTGGACTGAGGGAAATAATCTAT |
| ex3_5093037_x9 | AC020931.6/95709-95787 | 15 | 0.002 | 30.2 | 9 | CCACAUGCGGCUGAUGACAGCACUUCUGCUGAGACGCUGUGAUUGCUCUGUCCAAAGUAAACGCCCUGACGCACUGUGG |
| ex3_5093235_x9 | AB028893.1/4355-4440 | 31 | 1E-12 | 61.9 | 9 | GGCAGAUGAUGUCCUUAUCUCACGAUGGUCUGCGGAUGUCCCUGUGGGAAUGGCGACAAUGCCAAUGGCUUAGCUGAUGCCAGGAG |
| ex3_5100183_x9 | AL132709.5/175950-175879 | 21 | ###### | 42.1 | 9 | UGGAUCAAUGAUGAGUACCCUGGGGUGUCUGAAUCUUGGAUUUUGAUUAAACCCUAUAACUCUGAGGUCCAU |
| ex3_5105052_x9 | ENST00000362423.1 | 21 | 5E-07 | 42.1 | 9 | CCCCTTTTAAAAGCACTCAATGGGCCTGTGGCTAATGACCTATTGAGCCGTCAAGAAAGG |

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| ex3_5108912_x8 | AK090585.1/1147-1282 | 33 | 8E-14 | 65.9 | 8 | GCUGUCCUGGACCUGUUGGCACCACAGACAGUUGCUCUGCUGUGCCUGUGGCCUCGGGGCAAAGAGAAAGUGGCGAUUUCUACACUCAGUGCUCGGGAACCAGUGGGCACUGAGAAUGGUUUAUGGCCUGACAUUA |
| ex3_5113544_x8 | ENST00000364915.1 | 33 | 8E-14 | 65.9 | 8 | GCCAAATGATGTTTATTTGAAACAGGAGCACCTCAGTGCAAGGACGACTCTTATCTATCA |
| ex3_5113880_x8 | AJ609441.1/1-130 | 21 | 5E-07 | 42.1 | 8 | CUGCAUCCACUGAUAGACCUUGAACAAUUUACUGUUGUUCUUUUGGUUUGCACUAGGAUGCAAAAGAAAGAAAUCCCUGCGCUUUCUGUCUGUCUUUGUGGCGGCCCAGAUUGAAUUGGGGAAUACAUCU |
| ex3_5117992_x8 | AJ609473.1/1-130 | 35 | 5E-15 | 69.9 | 8 | AAGCCAGCCAAUGAAUCUGCUUACCUGAUUGUGUUUGUGCAGACAUACUUUAAAAACUGGCAAUAGUAAAGCCAUGUUACGAGCCUUAAGGACAUUGAAGUCGUUAAGGUCCCUGAGAAUGGCUAUAACA |
| ex3_5118072_x8 | CM000673.2/75400391-75400538 | 20 | 2E-06 | 40.1 | 8 | CTTCGATGAAGAGATGATGACGAGTCTGACTTGGGGATGTTCTCTTTGCCCAGGTGGCCTACTCTGTGCTGCGTTCTGTGGCACAGTTTAAAGAGCCCTGGTTGAAGTAATTTCCTAAAGATGACTTAGAGGCATTTGTCTGAGAAGG |
| ex3_5120904_x8 | CM000663.2/179196473-179196579 | 20 | 0.0008 | 32.2 | 8 | ATCCAAGGTGATTCCTTCTCCAAGGGGGACATCCAGTGACCCTCTCAGGAAGTAGCAACTTGGAATAGAATAGTCCAGGAGTTCCAGGACCAGCCTGGCCAATATGG |

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| ex3_5121136_x8 | AF308283.1/1-330 | 25 | ###### | 50.1 | 8 | GCCACAUGAUGAUAUCAAGGCUGUUGUGAUUCAGUUGGUUUGGCUAAGCCCAGGGACCUUUGGCCUGUUAAAGGUCUGUAAUCUUGGUGGGCGAUACAGAGUUAUGUGUGUUCACUGUAAGGGCAGACCAACAAGAACUUUUUCCUACUUUUGAGCUACCUCUUUUUAAUAGGGGUGAUUCUUCCAGUUGCUGGAGAGAAAUUGUGGUAACUGGAGUGAGAGAGUAGGAACAGGGCAUGUUCAGGGUAUCAGGGCCAAGGGUCCUAAAGGACUUAGCUUGUGUUAUGGCCACUGAGAGAUGAAACACAGAUCUUUGGUAAUCUGAUGGCU |
| ex3_5121720_x8 | AF001689.1/3146-3209 | 24 | 1E-08 | 48.1 | 8 | GGGGUAAUGAUGGAAAAAUCAUUAUUGGAAAAGAAUGACAUGAACAAAGGAACCACUGAAGUGC |
| ex3_5126008_x8 | AF141346.1/240-319 | 37 | 4E-16 | 73.8 | 8 | GUGCCCUGCCUCUGAUGAAGCCUGUGUUGGUAGGGACAUCUGACAGUAAUGAUGAAUGCCAACCGCUCUGAUGGUGGCAC |
| ex3_5126224_x8 | CM000671.2/33934376-33934296 | 25 | 3E-09 | 50.1 | 8 | CTGGAAAAGACAATGATGTTTTATTTCCAAGCACATATCTGAGTTGTATGTGTGGACAGCACTGAGACTGAGTCTTTCCAC |
| ex3_5126616_x8 | ENST00000459579.1 | 33 | ###### | 65.9 | 8 | GCTCTGTGATGGAGCCCATGCGTGTCATCTGAGCCTCTGGCTTCCCTGCCAGTGCAGCCC |

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| ex3_5126648_x8 | CM000684.2/39313911-39313819 | 41 | 2E-18 | 81.8 | 8 | GCTGTTCAGTGATGAGGCCTGGAATGTGCGCTGGGCACAGCGCCCGAGACAGACTGCGGAACCGTTCCTTGTTGCCTTCCTTCTGAGAACAGC |
| ex3_5127552_x8 | ENST00000459255.1 | 35 | 5E-15 | 69.9 | 8 | GCCACATGATGATATCAAGGCTGTTGTGATTCAGTTGGTTTGGCTAAGCCCAGGGACCTT |
| ex3_5128824_x8 | ENST00000408573.1 | 33 | 0.0005 | 34.2 | 8 | GCTGTACATGATGACAACTGGCTCCCTCTACTGAACTGCCATGAGGAAACTGCCATGTCA |
| ex3_5134552_x8 | CM000671.2/33952850-33952769 | 27 | 2E-10 | 54 | 8 | GTCCAGAAAACAATGATGTGGTAATTTCCAAGCACATATCTGATGATTCCATGTGGAATTTAACTACCTGAGTTTCCTGGAC |
| ex3_5134840_x8 | CM000663.2/155421655-155423304 | 19 | 0.006 | 30.2 | 8 | TGGCTCGGTTTCCTGGGGGGTGGGCTCAGTCTACACCACCTCCCCTCAGCCAAGCCTACAGTAGAGGGCCCAGGCATCCTCCCGTATGGGAGAGGCGTTTGAGTAAGGAGCCTCACCTGGGGTGTCCTAGCCTCACATTT |
| ex3_5136320_x8 | CM000671.2/131490486-131490571 | 19 | 8E-06 | 38.2 | 8 | TCTCAGTGATGTAATTCCAATAGATCCTTCTGACCCTCCACTGTGGACTCAATAGCAGGGAGATGAAGAGGACAGTGACTGAGAGA |
| ex3_5136560_x8 | CM000679.2/8329583-8329719 | 21 | 5E-07 | 42.1 | 8 | AAAGCAAGCTGGAATTACAGTGCTTCATTTTGTGAAATACTAAATACCATCATTATGCTGCTGAAAGAAAAGCTGTTTTAATGATTTTTGATTTGTCTTTGTGAGAGTAAAATCACGACAGATTGACATGGACAATT |

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| ex3_5137120_x8 | CM000668.2/136855831-136855698 | 14 | 0.009 | 28.2 | 8 | TACCCTCTTTCCACTTTGCCAACTGGATGTATGTCTTTACTGGTCATTCCAGTGGGGCAAACGAAATATCCTTTTTAAAACTCAGGCAAACTGGGTGTTTGTCATGGTCATGTATCCTGTCAGAGAAAACAAAC |
| ex3_5139400_x8 | CM000663.2/173866368-173866301 | 24 | 1E-08 | 48.1 | 8 | ATACTATGATGGTTGCATAGTTCAGCAGATTTAATCATGAAGAGATGTACTATCTGTCTGATGTATCT |
| ex3_5142433_x7 | ENST00000363389.1 | 27 | 2E-10 | 54 | 7 | GGCAGATGATGTCCTTATCTCACGATGGTCTGCGGATGTCCCTGTGGGAATGGCGACAAT |
| ex3_5142909_x7 | CM000681.2/17862588-17862720 | 25 | 3E-09 | 50.1 | 7 | ATTGCACCTAAACCCAAGAATCACTGTTTCTTATAGCGGTGGTTTAAACAGAGGTGCAAACAGCAAGCGGATCTTGTCGCCTTTGGGGGGCTGTGGCCGTGCCCCTCAAAGTGAATTTGGAGGTTCCACAACT |
| ex3_5143784_x7 | ENST00000364804.2 | 22 | 2E-07 | 44.1 | 7 | AAGACTATTTTCAAGGTTCATTTCTATAGTTCACTACTGGAGAAGTTTCTCTGAACATGT |
| ex3_5144568_x7 | AC064836.7/15165-15252 | 28 | ###### | 56 | 7 | UUCGUUGUUGUCAAUGAUGUAUUCUUCUUGGAACUGAAUCUAAGUGAUCUGACUCAAUAUUCGUCACUACCACUGAGACAACGAUGAA |
| ex3_5146227_x7 | ENST00000362396.1 | 29 | 2E-11 | 58 | 7 | ACCTGCATTCAAAAATGATCACGGGCTGCCTGTGCTCTGGTCATCAATAACGCAGGGAGA |

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| ex3_5147298_x7 | BC063011.1/424-557 | 26 | 8E-10 | 52 | 7 | ACUCUCUCGGCUCUGCAUAGUUGCACUUGGCUUCACCCGUGUGACUUUCGUAACGGGGAGAGAGAGAAAAGAUCUCCUCAGGACCUCGGAUGGGCCUUACUGUGGCCUCUCUUUCCUUGAGGGGUGCAACAGGC |
| ex3_5148964_x7 | L07384.1/2-133 | 22 | ###### | 44.1 | 7 | AAGCAGGAUUCAGACUACAAUAUAGCUGCUAAGUGCUGUGUUGUCGUUCCCCCUGCUUAAAAUAAAGUUGUUUCUUAACUAUACCUGUCUGCUAUUCUCCUGUAGCAGCCAGGGACGCUUGGUCUCAUACAU |
| ex3_5149069_x7 | ENST00000636377.1 | 22 | 1E-07 | 44.1 | 7 | GAGTTATGATGTGTGTAAATCCTATTCCATTGCTGAAATGCAGTGTGGAACACAATGAAC |
| ex3_5153073_x7 | CM000677.2/25070432-25070526 | 30 | 4E-12 | 60 | 7 | GGATCGATGATGAGTCCTCCAAAAAAACATTCCTTGGAAAAGCTGAACAAAATGAGTGAGAACTCATACCGTCGTTCTCATCGGAACTGAGGTCC |
| ex3_5154823_x7 | ENST00000585078.1 | 21 | ###### | 42.1 | 7 | GTGCTGTGATGATGCCTTAATATTGTGGTTTCGACTCACTGAGAGTAAAATGAGGACCTA |
| ex3_5168760_x7 | AJ609426.1/1-135 | 23 | 4E-08 | 46.1 | 7 | UAGGCCCUGAAUCAAGACCAAUGGUUUGCUGUAGCUGUUGGUUUCAAACAGGAGCUAAGAGUGAUGUCUUCCUUGUGGUCUGUUGGCUAUUCAGUAUUCCAGUGCGAAUUGCCAAUUCAGUUGGAAGAAACAUAG |

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| ex3_5169551_x7 | AK128061.1/3770-3890 | 34 | 2E-14 | 67.9 | 7 | UGGUCAUUACCAAGGCUUUUAGAAUGCAGUUUCUCAUUUGCUGUGGACAUGACCAUAAAAAAAUUUCCCAGUAGGUUUUCUAUCUGCUACUUUGCUAGCAAUCAGCUUAUGGGGAACAGUU |
| ex3_5171952_x7 | AJ609455.1/1-133 | 29 | ###### | 58 | 7 | AGCCUUUGUGUUGCCCAUUCACUUUGGAAACUAGUGAAUGUGGUGUCAAAAAAGGCGUAAAUUAAACGCUUUGCAGCCUUUUCCUGCCCUUAAAUUUGAUACCUUUGGUGUAGGAGCUGCAUAAGUAACAGUU |
| ex3_5176572_x7 | AP001458.6/72689-72837 | 26 | ###### | 52 | 7 | CCUCCUUUUCUUGGCGGGGAUCGGGCUUGUGGUGCCGCUCCCCGUAAUGUACGGAGGAAGAGGGAAAGGGCUCUGGCCCCCUCGGCGUCAUGUCUUCGGUGCUGGCGGCUUCCCAUCCGCUGGUUCUAUCCUCAAACGCCGGGACACCG |
| ex3_5178677_x6 | ENST00000384391.2 | 19 | 8E-06 | 38.2 | 6 | AAGAGTATAATTTCAGGCATCAATTCTGTAGTTCCTTACTAGAGAAGTTTCTCTTAACAT |
| ex3_5179271_x6 | AJ609479.1/1-123 | 21 | ###### | 42.1 | 6 | GAGCACUGUUCGUAACCCGUUAGCCUGGCUGUAGCUAAUGGGUUCCAUUCCGGUGCAAUAGCAUUUCCAGCGACACAUGACUGACUGACUGGUGGCUUUCAGUUUCAGGUCUUGGAGACAAAU |
| ex3_5180801_x6 | ENST00000384111.1 | 29 | 2E-11 | 58 | 6 | TGCAGCCGTGTCAAATTCAGTACCTGTCCTATGCATGGTAGGCACTGGCCCAGAAGGCTG |
| ex3_5182469_x6 | ENST00000365633.1 | 27 | 2E-10 | 54 | 6 | TGGCGTCCATGATGTTCCGCAACTACCTACATTGTTTGATCCTCATGAAAGCAGCACTGG |

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| ex3_5183315_x6 | ENST00000383966.1 | 31 | 1E-12 | 61.9 | 6 | CGGCAGACAGTTATCCCTTTCTAGTCTGGCTCGTGGGACTCTAGAGGGAGTCAGTCTGCA |
| ex3_5185475_x6 | AC025362.12/104850-104982 | 23 | 4E-08 | 46.1 | 6 | GCGCUGUCUUUGAGCCCCCGCCGAGCUUCCUCGUGGCGCCGGGGGUCAAUCUGCAGCGCUAGAGCAUGUGCUUGCGCAUAACUGGGGCCGCCUGGCCUCCCGCGGGCGGCCUUUUUAACCGCGAGCGACAAGA |
| ex3_5185577_x6 | ENST00000384756.1 | 31 | 1E-12 | 61.9 | 6 | TCCCAATGAAGAAACTTTCACATGTCTTACTCTCTGTCCTAGTCCCAGAGCCTGTAAAGG |
| ex3_5186741_x6 | ENST00000584302.1 | 26 | 8E-10 | 52 | 6 | CTACCAAAAGTTAGCTTTTTGGGGGGCAGGTTTTTAAGTAACCTTTGCCAACTTGGGCTA |
| ex3_5188805_x6 | ENST00000408139.1 | 26 | 8E-10 | 52 | 6 | CAGCCTGAAATGATGACTCTTTAAAAAATTTCATGTCTCTTCTCTGACATTTTTCTCTGG |
| ex3_5192177_x6 | ENST00000408684.1 | 23 | 4E-08 | 46.1 | 6 | TACATTCCATGATGTCCAGCACTGGGCTCTGATCACTCCGGAGGACACAGTTTTCCCCAA |
| ex3_5192543_x6 | ENST00000391232.1 | 32 | 3E-13 | 63.9 | 6 | TTCGTTGTTGTCAATGATGTATTCTTCTTGGAACTGAATCTAAGTGATCTGACTCAATAT |
| ex3_5194211_x6 | CM000680.2/21712119-21711950 | 19 | 1E-05 | 38.2 | 6 | AACTTCCTGTATAAGCACTGTGCTAAAATCGCAGAAACTAGGACCATATCTTGGTTTTTGTGATAATGCTAGCAGAGTACACAGAAGAATAAACGTAACAGCATTGGATTATAAAGACTAGGGTGAGGCCAGGCGCAGTGGCTCACACGTGTAATCCCAGCACTTTGGGA |

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| ex3_5194445_x6 | AK092096.1/824-956 | 37 | 4E-16 | 73.8 | 6 | UGGCCCUUAUCGAAGCUGCAGCUGCUUCCGCAUAGCUGCUGUGGUCAAAAAGGAGCCCAGAGUGACAGUUUUCCUUGACGGUCGCCGUUCUGUUUGUUGUAACUGAUCUGCAACAUUUUGGGAAAAUACAGUU |
| ex3_5196629_x6 | AF266720.1/161-233 | 26 | ###### | 52 | 6 | GCUAUGAUGAAUUUGAUUGCAUUGAUCGUCUGACAUGAUAAUGUAUUUUUGUCCUCUAAGAAGUUCUGAGCUU |
| ex3_5197241_x6 | ENST00000384281.1 | 22 | 1E-07 | 44.1 | 6 | GAGCACTGTTCGTAACCCGTTAGCCTGGCTGTAGCTAATGGGTTCCATTCCGGTGCAATA |
| ex3_5198513_x6 | AL132709.5/191680-191609 | 23 | 4E-08 | 46.1 | 6 | UAGACCAAUGAUGAGUAUUCUGGGGUGUCUGAAUCAAUGAUUUUGAUUAAACCCUGUAACUCUGAGGUCCAU |
| ex3_5198753_x6 | CM000666.2/159507458-159507372 | 21 | ###### | 42.1 | 6 | AAGACTCTACTTTCAGGGATCACTTCTATAGTCCATCCCTAGAGAAGTTTCTCTGAAAGTGTAGAGCAGCAGTCCCCAGTCCCTGGG |
| ex3_5199191_x6 | ENST00000364259.1 | 27 | 2E-10 | 54 | 6 | GGGCATACCCGTAGACCTTGTCTGACTGTGCTCATGGCCAGGCAGGGGGGACAGTGTATG |
| ex3_5199947_x6 | AJ609451.1/1-130 | 25 | 3E-09 | 50.1 | 6 | AUCCUCCUGAUCCCUUUCCCAUCGGAUCUGAACACUGGUCUUGGUGGUCGUAAAAGGAGGAAAAGUAAUAGUGAAGCUGGCCUAAAUGUUGUAAUCUGGUAUAUGGCAUGUGGGCUAGUUUCAGACAGGU |

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| ex3_5200295_x6 | AC064836.7/16842-16926 | 25 | 3E-09 | 50.1 | 6 | UUCAAUGUUGUCAAUGAUGCAUUCUUAUUGGAACUGAAUUUAAGUGAUCUGACUCAUUCGUCACUACCACUGAGACAACAUUGAG |
| ex3_5200877_x6 | ENST00000384390.1 | 20 | ###### | 40.1 | 6 | TCGCTATGATGATGGATTCCAAAACCATTCGTAGTTTCCACCAGAAAGTCTTATGTTGGC |
| ex3_5202953_x6 | ENST00000459386.1 | 28 | 3E-08 | 48.1 | 6 | GTCCAGAAAACAATGATGTGGTAATTTCCAAGCACATATCTGATGATTCCATGTGGAATT |
| ex3_5203067_x6 | CM000664.2/231455936-231455800 | 26 | 8E-10 | 52 | 6 | GTCTTCTCATTGAGCTCCTTTCTGTCTATCAGTGGCAGTTTATGGATTCGCACGAGAAGAAGAGAGAATTCACAGAACTAGCATTATTTTACCTTCTGTCTTTACAGAGGTATATTTAGCTGTATTGTGAGACATTC |
| ex3_5203583_x6 | AY077742.1/1-131 | 25 | 3E-09 | 50.1 | 6 | UGGGAGGCUGAUACACAAAUUGGGCUGAAAUACUGCUCUACUUGUCACCAUGCCUCCCUAGAAUAAACUGCCUUUUGAUGACCGGGACGAAUUGAGUGAAAUCGUAACGGACAGAUACGGGGCAGACAGAU |
| ex3_5206991_x6 | ENST00000384675.1 | 26 | 8E-10 | 52 | 6 | TTCCACAGCTACTGGTCTGCAGCTGTTCTTATGGTAGCAGTTGTGGCATTCCTCTGTGGG |
| ex3_5207033_x6 | AJ003041.1/119-186 | 25 | ###### | 50.1 | 6 | UUGCCAAUGAUGGUUAAGAAUUUCUUCACCUGAAUAAACCAUGUGGUCAGCAUUGCAUCUGAGGCAAA |
| ex3_5214581_x6 | ENST00000364043.1 | 28 | 6E-11 | 56 | 6 | AAGTAGGGTGATGAAAAAGAATCCTTAGGCGTGGTTGTGGCCGTCTTGGTCACCTGTGTG |

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| ex3_5218406_x5 | CM000663.2/92840719-92840851 | 25 | 3E-09 | 50.1 | 5 | GTGCAAACTCGATCACTAGCTCTGCGTGATGTGGCAGAAGCGAAGGGAACCAGGTTTGCAAAAGTAACTGTGGTGATGGAAATGTGTTAGCCTCAGACACTACTGAGGTGGTTCTTTCTATCCTAGTACAGTC |
| ex3_5219041_x5 | AJ609431.1/1-133 | 41 | 2E-18 | 81.8 | 5 | UAGCAAGCCUCCAGCGUGCUUGGGUCUGCGGUGACCCUAUGCAUUCCUUCAGUGCUUGCUAGAACAGUUUUGAAACGGUUUGAGGCCUUGCCCUGCUCCAUCCAGAGCAAGGUUAUAGAAAUUUCAGACAAUG |
| ex3_5223066_x5 | AL132709.5/178148-178075 | 27 | 2E-10 | 54 | 5 | UGGACCAAUGAUGAGAUUGGAGGGUGUCUGAAUCAAAAAUUUUGAUUAAAGCCAUCUGUAACUCUGAGGUCCAU |
| ex3_5223341_x5 | ENST00000365659.1 | 27 | 2E-10 | 54 | 5 | TCAAAATGATGAGATTCCACTTAATTGGTCCGTGTTTCTGAAACACATGATATTTGTGGA |
| ex3_5223676_x5 | AC132192.3/71954-71776 | 21 | ###### | 42.1 | 5 | GUAAUGUGUGCAUAGGUUUCAUCUGUGUCUGGUAGCAGUGUCUGUCUGUGUUUUUCAUUCAGAUCUUGCUAUCCACACAAACAUCAUGCGGCCAAAGAGUAACUUGGGAUCAUAGUACUGGUCUAGUGUUGUCUCUGGACACAUCUACCACUGGCCAGCCUCCAAAUUCCCACACACAG |
| ex3_5224631_x5 | AC068213.7/10987-11117 | 25 | 3E-09 | 50.1 | 5 | CUCCAUGUAUCUUUGGGACCUGUCAAGUGUGGCAGUCUCCCUUCCUUGCCAUGGAAGAGCAUAUUCUUGUUUACCAGCAAAGCUGUCACCAUUUAAUUGGUAUCAGAUUCUGACUUGCACAAGUAACAUUC |

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| ex3_5227311_x5 | AC090227.10/15359-15277 | 20 | 2E-06 | 40.1 | 5 | UGGCCGAUGAUGACGAGACCACUGCGCAAUCUGAGUUCUGGGAACCAGGUGAUGGAGUAUGUUCUGAGAACAGACUGAGGCCG |
| ex3_5229301_x5 | ENST00000577887.1 | 44 | ###### | 71.9 | 5 | TTGCTGTGATGACTATCATTGGGTTTCGCATGTTGCTGAGTTCCAGTGATGCCTCTTTTC |
| ex3_5230256_x5 | ENST00000386967.1 | 22 | 1E-07 | 44.1 | 5 | TGGGAAGTGATGACACCTGTGACTGTTGATGTGGAACTGATTTATCGCGTATTCGTACTG |
| ex3_5230481_x5 | CM000684.2/39319113-39319050 | 30 | 4E-12 | 60 | 5 | CACAGATGATGAACTTATTGACGGGCGGACAGAAACTGTGTGCTGATTGTCACGTTCTGATTTG |
| ex3_5230556_x5 | ENST00000459187.1 | 22 | ###### | 44.1 | 5 | TTGCCCGATGATTATAAAAAGACGCGTTATTAAGAGGACTTTATGCTGGAGTTCTTGACG |
| ex3_5230646_x5 | ENST00000516165.1 | 24 | 0.0006 | 32.2 | 5 | CTGGTCAACAGAGAGAGACTCTGTCTCAAAAAAAAGAAAGAAAAGATTTCTGATGTGCTA |
| ex3_5234636_x5 | ENST00000364993.1 | 21 | ###### | 42.1 | 5 | AGCCACCGCACCCGGCCGGGCTGTATTCTTACACTGACTGTATAGAAAGAGGAGATAGAG |
| ex3_5239511_x5 | ENST00000385573.1 | 24 | 1E-08 | 48.1 | 5 | TGCACTTATGTATGTTTTTGTTTAACTTGTGGACAAAGACTTATGGATAGGTGCAAAAAA |
| ex3_5240186_x5 | CM000673.2/102056927-102057017 | 15 | 0.005 | 30.2 | 5 | ATTTTTATTTTTTATATGCCTATTTTTATCCTTTGCTGACATGTGCCACCCTCAAACCTTGTGATGATGTCAGCACATTACCCTTCTGACA |

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| ex3_5240196_x5 | CM000667.2/172252478-172252334 | 17 | 0.0001 | 34.2 | 5 | CCTCGCTTTCTTTGCAGGGAGCAGGTATGTATGTTCCCTATTATGTCTGGAGGCAGAGGGAAAAGGCTTCAGTCCCCTGGGCATCATGTCTTTGGTGCCGCTGGCTTCCTGTCTGCCAATTCTATCCTCAAGCACTGGGACACAG |
| ex3_5242786_x5 | ENST00000609620.2 | 33 | 8E-14 | 65.9 | 5 | TAGAGAAGTCAATGATGGTTTTATTCATATCGTCTGAACCTGTCTGAAGCATCTCAGTGA |
| ex3_5242861_x5 | ENST00000517258.1 | 15 | 0.003 | 30.2 | 5 | GACTAGTACCACCTCACACCCGCAGAGCACTGGGCCCTGCCTGGGGTGAAATGCCAGTTG |
| ex3_5243126_x5 | AC079951.35/115286-115150 | 20 | 2E-06 | 40.1 | 5 | GUGGCCCUGACUGAAGACCAGCAGUUGUACUGUGGCUGUUGGUUUCAAGCAGAGGCCUAAAGGACUGUCUUCCUGUGGUCUGUUGGCUGUUCUGGGACCUCAGUAGGGAAUGGCUAUUUCAUUUGGAAGAAACAACC |
| ex3_5243146_x5 | BC042667.1/532-663 | 35 | 5E-15 | 69.9 | 5 | ACUGCCCCUAGAGGCGUUGCAGCUGUGGCUGCCGUGUCACAUCUGUGUCAUUAAGUGGCAGAGAUUAGAGAGGCUAUGUCUACGCUCAGCGUUCUGCCCCGUGAACGUUUGAAUGUUUGAUAGUCUCACACU |
| ex3_5244461_x5 | AC007318.4/80306-80504 | 14 | 0.008 | 28.2 | 5 | UCCAGCAGUCGUUAGCUCUCCUGGCUAGUGUGAUGCCUGUGAUGGUGUUUCACUGUUGGAACAGCAAGCACUGUCUUAAUUGAGGCUUGGCUCCGGGUGCUGUUUUGGUGUGGGGCCAAGUAUACCUUUGGGCAGUGUUUUGCACUUCUGAGAGUGAAAUGACUCCUGUGGAGUCGGUCCUAAUCUGAGUGCAAACAAU |

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| ex3_5244511_x5 | ENST00000516733.1 | 28 | 6E-11 | 56 | 5 | TGCCAATGATGGTTAAGAATTTCTTCACCTGAATAAACCATGTGGTCAGCATTGCATCTG |
| ex3_5245331_x5 | KN196479.1/176189-176262 | 21 | ###### | 42.1 | 5 | TTGCAGTGATGTAAAATTTCTTGGCCTGAAATTACTGTGAAGAGTAAAACCGAGCTTTTTAACACTGAGTCAGC |
| ex3_5245366_x5 | CM000672.2/100237302-100237156 | 20 | 2E-06 | 40.1 | 5 | AGTTGTGGTGGTTTTCTTTTTGGCACATTTGTTAAGTTTTCAAATGGGCCTAACTCTGCCACATATATAATATCGGAGATGGCAAAGGCTTGTGACGGAGATATCTCTCTTAAGCCTTTCCTGCATCAGAGAATGGCTCCCACATGT |
| ex3_5247701_x5 | CM000663.2/75789477-75789548 | 20 | ###### | 40.1 | 5 | GGTCAATGATGTAATGGCATGTATTAGCTGAATCTAAAGTTGATGTGAGTTCTAAAATTACACTGAGACCTT |
| ex3_5247706_x5 | D00591.1/3109-3311 | 31 | 1E-12 | 61.9 | 5 | CCAACGUGGAUACCCUGGGAGGUCACUCUCCCCAGGCUCUGUCCAAGUGGCAUAGGGGAGCUUAGGGCUCUGCCCAUGAUGUACAGUCCCUUUCCACAACGUUGAAGAUGAAGCUGGGCCUCGUGUCUGCGCCUGCAUAUUCCUACAGCUUCCCAGAGUCCUGUGGAUAAUGAUAGGGGAGACAAACCAUGCAGGAAACAUAU |
| ex3_5248221_x5 | ENST00000458862.1 | 22 | 2E-07 | 44.1 | 5 | TGGAGGACTGAGAAGGTGAGGCAGTTTTGCCCCGTGCTGCCTTCCACCGGTTAAGACCTC |
| ex3_5251961_x5 | CM000666.2/151103827- | 25 | 3E-09 | 50.1 | 5 | AATAAGTGATGAAAAAAGTTTCGGTCCCAGATGATGGCCAGTGATAACAACATTTTTCTGATGTT |

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| | 151103891 | | | | | |
| ex3_5252761_x5 | AL132709.5/134553-134482 | 24 | 1E-08 | 48.1 | 5 | UGGAUCGAUGAUGAGCACUGGUGGAGUAUGAGUCACAUACGAUGAAUACGUGUCUGGAACUCUGAGGUCCAU |
| ex3_5253771_x5 | AJ609468.1/1-136 | 38 | 1E-16 | 75.8 | 5 | AAGCACUGCCUUUGAACCUGAUGUGUCUUGUUUGUAGCUUCACGGGCCAAGCAACAGUGCUAGAGCAUAACGACUUGUUAUAACUGGGGCUCUUCAGCUCUCAACUGAACUGCUCUUUUAAAAACAAGGUACAUUU |
| ex3_5254701_x5 | ENST00000384289.1 | 22 | 1E-07 | 44.1 | 5 | TTCCAAAGTGTTGAGTTCAGTCCAGGGCAGCTTCCCTGTTCTGTTAATTAAACTTTGGGA |
| ex3_5255096_x5 | ENST00000390981.1 | 28 | 6E-11 | 56 | 5 | ACTGAGGAATGATGACAAGAAAAGGCCGAATTGCAGTGTCTCCATCAGCAGTTTGCTCTC |
| ex3_5256806_x5 | AC010325.7/135083-134993 | 31 | 1E-12 | 61.9 | 5 | GGGCUCCCAUGAUGUCCAGCACUGGGCUCUGAUCACCCCUGAGGACACAGUGCACCCCAGGACCUUUGACACCUGGGGGUCUGAGGGGCCC |
| ex3_5257086_x5 | AL121809.6/149441-149356 | 26 | ###### | 52 | 5 | UGGCAACUGUGAUGAAAGAUUUGGUCUGUAUGUAAUAGAUUUUAUUACUAAAUGAGGACAACAGUCCCUCUAAACUGAUGUUGCCA |
| ex3_5257201_x5 | CM000673.2/62853035-62852910 | 21 | 5E-07 | 42.1 | 5 | TCCCAATGAAGAAACTTTCACATGTCTTACTCTCTGTCCTAGTCCCAGAGCCTGTAAAGGTGAACCCACTGGGACTGGCTGGGGGAGAAGAGGAAGATTTGTTCCAGAAGGAACTGTCTGAGGGAT |

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| ex3_5257521_x5 | AK123993.1/1023-1100 | 29 | 2E-11 | 58 | 5 | CUGAGCUGAGGAUGAUUUAAAGUUAUCCCUGUCUGAAAUGGUAUCUUUUGUGAGGAGGUCUGACUUGCUGAGGCUCAG |
| ex3_5257686_x5 | ENST00000628922.1 | 22 | 2E-07 | 44.1 | 5 | AAGACTATACTTTGAGGGATCATTTCTATAGTTTGTTACTGGAGAAGTTTCTCTGAATAT |
| ex3_5259561_x5 | CM000668.2/67210480-67210408 | 18 | 0.008 | 28.2 | 5 | AAACGATGAACTCACCTAAAATAGCTGTAATAACCAGCAGATTATGTAATGGCAAACCTACAGTTTTCTGAAT |
| ex3_5263951_x4 | ENST00000517061.1 | 19 | 0.005 | 30.2 | 4 | GCTTAGGGAGGGTGCTCTGCCCAGGTTCCAATCCTGGTTCCACTGCATATGAGCCTTGTA |
| ex3_5264267_x4 | AC087863.10/61455-61585 | 23 | 4E-08 | 46.1 | 4 | CCCUCCUACAAAGGCAUGUCUAUAAUUCCUUGUCUUUGGACAUGUAAGAAUUGGAGGGACAGAAAUGUGGACUUGGAGAAAUCUGGGGCCAGCUUUCUCAUCACAGGCUCAACAUCAACCAUGCCACAUAG |
| ex3_5264283_x4 | CM000665.2/154007502-154007367 | 22 | ###### | 44.1 | 4 | TCGTCAGGTGGGAGAATTCTTACATGTTCCTCCTTTTGCAAGGCAGATTAGAACATGATGATTGGGGTTCGCATAATATGTGATTAACGTTTCTGTGTAATCAGGACTTGCAACATCCCGAATGCCCTTACCTGAC |
| ex3_5264291_x4 | ENST00000630737.1 | 23 | 4E-08 | 46.1 | 4 | GAGCACTGCTTTAGAGCCTCTGCGTGTCTGGCTGTGGCCTCAGGGGTCTAGCAGCAGTGC |

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| ex3_5264611_x4 | AC079802.6/80721-80594 | 23 | 4E-08 | 46.1 | 4 | UAGACUUGUGCAUGUUUUUGCUUAACUUGUGGAUAAAGUCUUACAGACAGGUGCAAAAAAUAAAUCCUCUUUUGCAACCCAGAACUCAUUGUUCAGUAUGAGUUUUGAUACAUAUAAGAAAGGACAUU |
| ex3_5265395_x4 | ENST00000364133.1 | 22 | 1E-07 | 44.1 | 4 | GGGCATACCCGTAGACCTTGCCTGACTGTGCTCATGTCCAGGCAGGGGGGACATTGTATT |
| ex3_5265523_x4 | CM000671.2/133350456-133350528 | 20 | 2E-06 | 40.1 | 4 | TTGCAATGATGTGAATCTCTCACTGAATTCAACCTTGAAGTGCGAATCCATGAGCTTTTTAACCCTGAGCAAT |
| ex3_5267183_x4 | ENST00000364533.1 | 30 | 4E-12 | 60 | 4 | TCACTGTGATGATGGTTTTCCAACATTCGCAGTTTCCACCAGAAAGGTTTTCCTTAGTGT |
| ex3_5267459_x4 | AL138976.5/150375-150500 | 39 | 3E-17 | 77.8 | 4 | AAGCAACACUCUGUGGCAGAUGAUCAAAACUGUCUGACACAAUUUGAGCUUGCUAUAGCAAGAAAGUCUAACCUAUUCCGGUGUUCUCUCUCCCAUGAGACAAGCCGUUAUAUAGACUUAAACAGU |
| ex3_5267487_x4 | AC114402.2/38652-38776 | 23 | 4E-08 | 46.1 | 4 | GCAGACUCACUAUGCACCUGACUGUACUUCCAGGCAGGUGCUUUUUCUGUCUGCCAGAGAAACAUUCCAGGGUGCUGUGGCUGCCUCACCUAUCCAGGGCGAUGCAGCUCCCUGGGGACACAGGU |
| ex3_5267839_x4 | ENST00000606420.1 | 29 | 2E-11 | 58 | 4 | GGCCTCCTGGTGCTTACCACAGGCTGTGTTCTTACACTGACTGTATAGAAAGAGGAGGTA |

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| ex3_5267995_x4 | ENST00000383895.1 | 20 | 2E-06 | 40.1 | 4 | AAAGCAGGTTGCAATTACAGTGCTTCATTTTGTGGAAGTACTGCCATTATCCTGCTGAAA |
| ex3_5269203_x4 | ENST00000630429.1 | 29 | 2E-11 | 58 | 4 | ACTGCCCCTAGAGGCGTTGCAGCTGTGGCTGCCGTGTCACATCTGTGTCATTAGGTGGCA |
| ex3_5269699_x4 | CM000684.2/37785526-37785633 | 15 | 0.002 | 30.2 | 4 | ATCCTTTTGTCGTTCATAAGCATGACGATTGGGCTTTCATGCTCATGCATGAGATGGGCCTCCCTTCAGTCTTGTTACAGGCCGGCTCTGTGGCTCATGCCTGTAATC |
| ex3_5270331_x4 | AJ243199.1/1-78 | 21 | 6E-07 | 42.1 | 4 | GCCAUAUGAUGUUUUCUUUUCGAAAGGUGAGCGCUUUGCGCAGUGAUGACCCUCAUCUAUCACCCUUGACUGAUGGCU |
| ex3_5270931_x4 | AC016876.10/19660-19526 | 20 | 2E-06 | 40.1 | 4 | UGUCCCUGACCUGGGUAGAGUGGCAUCUGGUUGGUGAUGCCCAUCUCAUAUCAGCCAGGGACAAAGCAACUCCUUGUUCAUCCCAGCUUGGCUUUUGAUCCGUGCCCAUGCCUGGUUCAUGCCUUGGACACAUAG |
| ex3_5271447_x4 | ENST00000363593.1 | 30 | 4E-12 | 60 | 4 | TCGTCAGGTGGGATAATCCTTACCTGTTCCTCCTCCGGAGGGCAGATTAGAACATGATGA |
| ex3_5275599_x4 | ENST00000458893.1 | 32 | 3E-13 | 63.9 | 4 | GTGCATATGATGGAAAAGTTTTAATCTCCTGACACTTGTGATGTCTTCAAAGGAACCACT |
| ex3_5276495_x4 | CM000663.2/173867750-173867671 | 39 | 3E-17 | 77.8 | 4 | GTGCCCTGCCTCTGATGAAGCCTGTGTTGGTAGGGACATCTGAGAGTAATGATGAATGCCAACCGCTCTGATGGTGGCAC |

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| ex3_5279935_x4 | CM000682.2/38427442-38427309 | 34 | ###### | 67.9 | 4 | TCCTGCATCCGAAAGTGATCATAGGCTGCCTGTGCCTAGGTCATTGATAGTGCAGGGAGAGGAACGCTGAAAGAGGTTGTCCCCGTGTTTGGAGGGTCCACCCTATCCCATCCGAACCCTGAAGCTTTCACACA |
| ex3_5282363_x4 | CM000667.2/68873954-68874087 | 22 | ###### | 44.1 | 4 | CCCAAAGTGCTGGGATAACCCTTACCTGTTTCTCCTTTGCAGGGCAGATAGAACATGATAATTGGAGATGCATGAAACGTGATTAATCTCTCTGTATAATCAGGACTTGCAACACACTTAATTTTTTTTTTAAT |
| ex3_5283215_x4 | ENST00000628177.1 | 30 | 4E-12 | 60 | 4 | GTCTGTGATGAATTGCTTTGACTTCTGACACCTCGTATGAAAACTGCACGTGCAGTCTGA |
| ex3_5284063_x4 | ENST00000386157.1 | 22 | ###### | 44.1 | 4 | CTTCCTCAGCCTTACTCCAGGGACTTTTTGTTGCCTGTAAAGTGCTCTGGCATTGCCTGA |
| ex3_5285083_x4 | ENST00000362704.1 | 22 | 1E-07 | 44.1 | 4 | TTGTTATGATGAGATTCCACTTAAGGTCCGTGTTTCTGAAACAAATGATTTTGTGGAAGT |
| ex3_5285271_x4 | BK005567.1/284-353 | 23 | 4E-08 | 46.1 | 4 | GGGCAAUGAUGAAAAGGUUUUACUACUGAUCUUUGUAACUAUGAUGGUUUCUACACUUGACCUGAGCUCA |
| ex3_5292499_x4 | AJ609461.1/1-133 | 32 | 3E-13 | 63.9 | 4 | GGGUCAUUUCAAAGAGGGCUUAUGAGGCUGUGAAACCCAGAGCUCUUAACGCUGUGACCAAAGAUGGAAGUUCUCUAUAGGAAGCCAUAGCACUCCUAAUGUUUGGUGCUAUGUUUUCCUGAGGAGAUAUAAA |

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| ex3_5292571_x4 | CM000663.2/44778390-44778458 | 21 | ###### | 42.1 | 4 | TCTCAGTGATGAAAACTTTGTCCAGTTCTGCTACTGACAGTAAGTGAAGATAAAGTGTGTCTGAGGAGA |
| ex3_5293663_x4 | AJ224025.1/2-73 | 21 | 5E-07 | 42.1 | 4 | GGUGCAAAUGAUGCAUAUGUUAGCGACCAAAGCCUGAUCUUUGCUGAUUAGUCAUAAUUAACUGACUGCACC |
| ex3_5294595_x4 | AK027016.1/1395-1517 | 26 | ###### | 52 | 4 | UGGUCAUUACCAAGGCUUUUAGAAUGCAGUUUCUCAUUUGCUGUGGACAUGACCAUAAAAAAAAAUUUCCCAGUAGGUUUUCUAUCUGCUACGUUGCUAGCAAUCAGCUUAUUGGGAACAGUU |
| ex3_5295627_x4 | ENST00000517238.1 | 20 | 0.0006 | 32.2 | 4 | CAAAGTTCTGGAATTACAGGTGTGAGCCACCGTGCCCAGCATTTAAAATTTTAATATGTA |
| ex3_5295671_x4 | ENST00000408789.1 | 25 | 3E-09 | 50.1 | 4 | GGGGTGTGCTCAGAGCAGGGGGCCCAAAGAATGGCTCCTCTGTTTACAACACACCCAACA |
| ex3_5297311_x4 | CM000682.2/38429803-38429670 | 27 | 2E-10 | 54 | 4 | CCCTGCATTCGAAAGTGATCATGAGCTGCCCGTGCCCTGGTCATTGGTAGTGCAGGGAGAGGAACTGCCGAGAGCACTTCCCCGTGTTTGGAGGGTCCACTCCTGTCTCTTCCAAACCCTGGAGCTTTCCCACA |
| ex3_5297547_x4 | ENST00000362915.1 | 25 | 3E-09 | 50.1 | 4 | TGGTCCATCCTAATCCCTGCCGGTCCATCTGTGGCCTGCCAGGTTTCGCTTGTGGACCAG |

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| ex3_5298439_x4 | CM000674.2/6967606-6967337 | 24 | 1E-08 | 48.1 | 4 | CAGGCTGATGAGACTAAGGCGAATGCGACTCCGTGCTCTCTGGCCCTTGGCTCCTTGTTGGGGGTGGGGACTACAGATGAGATCTGAAATCTTAGTGGTAGTACCTGAGCCATGACTCCCCACTGTAAGGCCAGATCAATAGCATTGGTGGCCTTGCCTTCATTTCTGGTGCTGCCCCTAGTTCCTGGCAGCAGCCTGCAGGGAGGCCCACAGGTGGGGTCCACGGTAGGGCTGGGCACAAGCCACCTGAGCGCAACCTTGGATCTGACA |
| ex3_5303639_x4 | AL132709.5/146793-146719 | 30 | 4E-12 | 60 | 4 | UGGACCAAUGAUGACAAAUGGUGGCAUUGGAGUUAUGGACGAUGAAUGAUAUGUGUCUGAAACUCUGAGGUCCAA |
| ex3_5304043_x4 | ENST00000364902.1 | 28 | 6E-11 | 56 | 4 | TGCAGTCAAGTCAAATTCAGTGCCCGTTTCTGTCATAGCGGGGGCTGGCCCAGATGGCTG |
| ex3_5304423_x4 | CM000670.2/18979619-18979772 | 14 | 0.009 | 28.2 | 4 | TATTCTTCTTGTTAGAGCTCGGAGTTGAGGCCAGTGACTGGCCAATGAACTCACAAGTGTAGACAGGGTGTTACGCAAGGGACAAGTTTTTCACTAACACCACAAGAGTCTCTGGCCCAATGAGAGGAGTTTAATAGAAATTCTTGCTACAACT |
| ex3_5305127_x4 | ENST00000458790.1 | 23 | 4E-08 | 46.1 | 4 | AGCCTTTGTGTTGCCCATTCACTTTGGAAACTAGTGAATGTGGTGTCAAAAAAGGCGTAA |
| ex3_5305883_x4 | ENST00000384365.1 | 22 | 1E-07 | 44.1 | 4 | GGATCGATGATGAGTCCTCCAAAAAAACATTCCTTGGAAAAGCTGAACAAAATGAGTGAG |

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| ex3_5306631_x4 | ENST00000607547.2 | 14 | 0.009 | 28.2 | 4 | AAGACTATACTTTCAGGGATCATTTCTCTAGTTCAATACTACAGAAGTTTCTCTGAAGGT |
| ex3_5309115_x4 | ENST00000391007.1 | 52 | 2E-15 | 71.9 | 4 | TTCAATGTTGTCAATGATGCATTCTTATTGGAACTGAATTTAAGTGATCTGACTCATTCG |
| ex3_5309771_x4 | AC010553.6/712-633 | 20 | 2E-06 | 40.1 | 4 | CAGCCUGAAGUGAUGAUUCACAUUCAUGUCUCUUCUCUGAUAAAUUCUUGAAGAAAAUUUUUGUGUGUCUGAUCAGGCCU |
| ex3_5310635_x4 | ENST00000384706.1 | 19 | 0.008 | 30.2 | 4 | GTCAGATGATTTGAATTGATAAGCTGATGTTCTGTGAGGTACAAAAGTTAATAGCATGTT |
| ex3_5311903_x4 | AC115088.6/123021-122911 | 21 | 5E-07 | 42.1 | 4 | UGUGAGAGUGAUGAGUUGCACACUGGUGGAGCCAUGGUAUCAGGUGAUACAGGCACCACUCAGUAUCACCCUGGUGACAAAAUCAAGUGCACAGGGGCCAUCUGACUCACA |
| ex3_5312379_x4 | ENST00000384452.1 | 24 | 1E-08 | 48.1 | 4 | CTGCATTCTTAAACCCTCTTGGTAGCTTCGTTCTAAGTGCTTCCAAGATATGAGTGAATG |
| ex3_5313667_x4 | CM000685.2/154768528-154768659 | 28 | 6E-11 | 56 | 4 | TTCCAAAGTGTTGAGTTCAGTCCAGGGCAGCTTCCCTGTTCTGTTAATTAAACTTTGGGACATTAAAATGGGCTAAGGGAGATGATTGGGTAGAAAGTATTATTCTATTCATTTGCCTCCCAGCCTACAAAA |
| ex3_5314835_x4 | ENST00000516890.1 | 31 | 1E-12 | 61.9 | 4 | CCTCTTCTCAGAACACTTCCTGGGTCTGATTGGTGGCCCAGGGAGCTGTCAGAGAAGAGC |

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| ex3_5315159_x4 | ENST00000365570.1 | 50 | 5E-07 | 44.1 | 4 | TAGCATATGATGGAAAAATCTTAATCTTCTGAGACTTGTGATGTCTTCAAAGGAACCACT |
| ex3_5315399_x4 | ENST00000362567.2 | 20 | ###### | 40.1 | 4 | CCTGGACCTGTTGGCACCACAGACAGTTGCTCTGCTGTGCCTGTGGCCTCGGGGCAAAGA |
| ex3_5315555_x4 | CM000665.2/183452567-183452732 | 19 | 9E-06 | 38.2 | 4 | ACCTTCTTGTTTAAGCTCTGTACTAAAATTGCAGAAACTAGTATCGTGTCTTACCATTTGTAATAAAGCTATCAGAGAAAACCCAAGGAAAAAAACAGCTGTACCAGATAGAAAAACTGAGTTGAACCTTTTTTTTTTCTTTTTTTTAGATGGAGTCTCACTCTGT |
| ex3_5316495_x4 | ENST00000363064.1 | 20 | 2E-06 | 40.1 | 4 | GAAAATACATGATGATCTCACTCCAACTGGAACTCTCTCACTGATTACTTGATAACAATA |
| ex3_5317615_x4 | ENST00000459229.1 | 21 | 5E-07 | 42.1 | 4 | GCCCTGTGGTTGCTGGATGCTGTTGTGCATGGACAGCTCTCCAGTGGATTCGATGGGCCA |
| ex3_5317767_x4 | AB070559.1/4340-4471 | 31 | 1E-12 | 61.9 | 4 | CUGCGAAUAUUCUCGCUGUUCUGAUUUUGUAAUAGUCAGGACAGGCUAAACAUUCGCUAUAUUAAGACCAUGCAUGUGUCCCCAAACCUAGUUCUUUCCCUAGGUCUGGUUUUAUAAAUGCUGGUGAUAAAC |
| ex3_5318363_x4 | CM000663.2/171481907-171482009 | 14 | 0.009 | 28.2 | 4 | ATCCTTTTGTAGTTCATAAGTGTGATGATTCAGTGTTCACATGAATCTATGAGATGCGCCAACCTCAAACCTTGTTATGACGTGGTCCATTACCCATCTGATG |

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|---|---|---|---|---|---|---|
| ex3_5320910_x3 | ENST00000410438.1 | 23 | 4E-08 | 46.1 | 3 | TTCCAAAGTGTTAAGTTCAGTTCAGGGTAGCTTCCCTGCTCTGTTAATTAAACTTTGGAA |
| ex3_5321276_x3 | Z15025.1/12945-12815 | 14 | 0.008 | 28.2 | 3 | UCCUCCUACAAAGGCGUGUCUGUGGUUCCCUGUCUUUGGACAUGUAAGAAUUGGAGAAAAUAAAUGUGGAUUUGGGAAACUUUGAGGCCAGCUUGCUUCUUGCAGGCUCAUGAUCAACCAAUCUCACAUAA |
| ex3_5321618_x3 | ENST00000459157.1 | 22 | 1E-07 | 44.1 | 3 | ATCCTTTTGTAGTTCATGAGCGTGATGATTGGGTGTTCACATGCATGTGTGAGATGTGCC |
| ex3_5322956_x3 | ENST00000391141.1 | 22 | 1E-07 | 44.1 | 3 | AACATGCTTCCTTAGATCCACCTTTGTGGATGAATCTTGAACTGAGTTCCACTTGTAAAC |
| ex3_5323415_x3 | CM000679.2/44025223-44025020 | 15 | 0.003 | 30.2 | 3 | AAGCTTGTACTCTCAGTGATCATTGCTGTAGTTACGAGATAAGCTTCTCTGAACATGCAGAGCAGTGGTAACTATGAGGAGGCACAGTCTCTCCTGAGCATGACTCTGGCTGTTGGTGTGGCTTTGCTGCAGCTGCCGTGTGCCATTGATGATCCTGCTCCTCTTCCTTCGGGAAAGTAAGAGGGAGAGAACAGTCTGAGTGGG |

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| ex3_5323568_x3 | CM000677.2/36852640-36852859 | 14 | 0.008 | 28.2 | 3 | AAGACGATACTTTCAAGAATCATGATCATTCTATACAGTTCATTACTAGAAAAGTTTCTCTAAACATGTAGAGCGCTGGAAGCCATGAGGAGGAGTCTCAGTGTTGTTGCCTGAGCATGAAGCAGACTCTTGTTGCTTCACTGCAACCACCATGTACCATTGATGATGGTTCTTCTCTTCCTCCAGGAGAGTAAGAGGGAAAGAATTCAGTCTGAGTGGT |
| ex3_5324168_x3 | AJ609464.1/1-132 | 28 | 6E-11 | 56 | 3 | UUCCACAGCUACUGGUCUGCAGCUGUUCUUAUGGUAGCAGUUGUGGCAUUCCUCUGUGGGAAAGAAACUGUUAACACAAACACCUCUUUCUUAGCAAAACAGAAAGUGGGUAUAUAUGUGUGACAGACACAA |
| ex3_5326193_x3 | ENST00000606526.1 | 27 | 2E-10 | 54 | 3 | TCACTATGATGATTGGTTGCCAGACATTCGCAGTTTCCACCAGAAATGTTTTTCCTTATG |
| ex3_5326697_x3 | ENST00000516419.1 | 20 | ###### | 32.2 | 3 | TACTCCAGCCTGGATGACAGAGCCAGACTCTGTCTCGAAAAAAAAAAAAAAAAAAGCTTA |
| ex3_5327180_x3 | AL132709.5/153488-153414 | 20 | 2E-06 | 40.1 | 3 | UGGACCAGUGAUGGUGACUGGUGGUGUGAGUCAUGCACAGUGAAUAUCAUGUGUCUGGAACUCUGAGGUCCAA |
| ex3_5327267_x3 | ENST00000408569.2 | 16 | 0.0008 | 32.2 | 3 | TTGTATTTTTTGTAGAGATGGGGTCTCTCCCATGGGCACAGTCTCATTGTTTCTATAGTT |

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| ex3_5327285_x3 | AJ609452.1/1-137 | 15 | 0.005 | 30.2 | 3 | UACCAAAAGUUAGCUUUUUGGGGGGCAGGUUUUUAAGUAACCUUUGCCAACUUGGGCUAUUUGGAAGAGUAAAAGACCACACUCCACAGUGGGCUAUACCACUUAGUAUAGUUCGCUACUAUUUUGUGGCCUACAUG |
| ex3_5329685_x3 | AY055806.1/1-75 | 29 | 2E-11 | 58 | 3 | GGUUCAUGAUGACACAGGACCUUGUCUGAACAUAAUGAUUUCAAAAUUUGAGCUUAAAAAUGACACUCUGAAAUC |
| ex3_5330039_x3 | AM055743.1/3-203 | 25 | 3E-09 | 50.1 | 3 | UCCAGCAGUAGUCAGCCAUCCGGACAGAACCGUUCCUGUGAUGGUGUUACACUGCUGGGAGAGGAAUGUCUUGUCUUCAUCCGGUUGCCUGCGCCACUGUUCUGGUGGCGUCUGGCACUGGUGCAAGACAGAGCUGUGCUUCCCCGAGAGUGUGCUAAGCAUUCACUUUGGCUGCUUAGUUCUAGUCUGGGAGCAGACAGA |
| ex3_5330738_x3 | CM000672.2/56596031-56595963 | 20 | ###### | 40.1 | 3 | TGATGAATTGATGACAGTCATCTTTTGAGAGTGACCCAAAATGAAAAGAATACTCATTGCTGATCACTT |
| ex3_5331167_x3 | AP005270.2/124772-124639 | 20 | 2E-06 | 40.1 | 3 | UGCCUCUGACCUGGGUAGAGUGGCAUCUGGCUGUGACAUUCAUCUCAUAUCAGCCAGGGACAAAGCAACCCCUUGUUUAUUUCAGCUUGGCCUUUUGUCUGUGCCCAUGCCUGGUUCAUGCCUUGGACACACUA |

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| ex3_5332196_x3 | AC104360.8/62127-61997 | 39 | 3E-17 | 77.8 | 3 | GCCGAGACUAGAGUCACAUCCUGACACAACUCUUGUCCUGGUGUGCUAGAGUACUCGAAGAGAAUCUACUGGUCUUGAUUCACUGGUGGGGGCAGUCGGUGCCCCCGUUAGUGCCCAGAUCAGAAACAUAC |
| ex3_5332235_x3 | CM000667.2/80306368-80306235 | 14 | 0.008 | 28.2 | 3 | ATACATCTGTTTGACAGACCTAGTGCAATTACTGGGTGCTGCTAAGGTTCTCACTACAGATGCAAGAAAAAGGTGTCATTGTCCTTTCTGTCTGTCTTATTGTGGTAGCCAAGACTGAATAGAGGAAAACAGAG |
| ex3_5332679_x3 | ENST00000386037.1 | 20 | 2E-06 | 40.1 | 3 | CAGGCTGTGATGATTGGCGCAGGGGTACGGACCTCAGCTGAGTCATGGGAGCTGAATGTA |
| ex3_5333174_x3 | AJ609439.1/1-126 | 30 | 5E-12 | 60 | 3 | UACCCCCUUUUCACUUUGCCAGUUGGACUUAUGUCUUUAUUGGUCAUUCAAGUGGGGCAAAGGAAAUAUCCUUUUAAAACUCAGGCAAACUGGGUGUUUGUCUGUAUCCUGUCAGAGGAAACAAAU |
| ex3_5333282_x3 | AY077737.1/2-276 | 21 | 5E-07 | 42.1 | 3 | GGUCGUGAUGAUUGGUAAAAGGUCUGAUUGCACUGAAUGUCACAGUCCCUUUGUUGCCCUCAACUCCCAGCAGCCCAUUUUUUCCCUCCCGUCACAUUUAAGUCAUGUGUAUGGGAUCAUGGAGCAGCUGAUAAUUUGGGAUUCUGUCAGUGUGUGUUUCUGAGAGUGAUCGACUCACAGCUGACGAGUAUCCAACAAAACCAGUUACACAGGAGACUGACGAGUGGCAGUCAUGGGUGUGAUGGUGCAUGAUCUCAAGUUUUCAAUCUGAGACC |

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| ex3_5333480_x3 | ENST00000391112.1 | 25 | ###### | 50.1 | 3 | ATACTATGATGGTTGCATAGTTCAGCAGATTGAATTCATGAAGAGATTTACAATGTCTGA |
| ex3_5335010_x3 | ENST00000636729.1 | 18 | 0.009 | 28.2 | 3 | ATCATTATTGTTATTATTATATTTTTGAGAAGGAATCTCACTCTGTCGCCCAGGCTGGAG |
| ex3_5335274_x3 | AJ609470.1/1-125 | 15 | 0.004 | 30.2 | 3 | GCGCUCACUAAGGCUCGGUCCUCUCCACGUGGUCCUGACCUGUCCUCUGUGAGCAAGAGAAACAGGACUGGUUUGGGGGUGUCCUGUCUCAGUGGACACAGGACACCACGGUUUUCAGUACAACA |
| ex3_5335703_x3 | CM000681.2/33051403-33051504 | 20 | 2E-06 | 40.1 | 3 | AAGACTGTACTTCCAGGGATCATTTCTACAGTTCGTTACTAGAGAAGTTTCTCTGTACGTGTACAGCAACCGTTTATATTAGTGTGGCACACACCTATCTGA |
| ex3_5340992_x3 | ENST00000584275.1 | 30 | 4E-12 | 60 | 3 | GCCATATGATGTTTTCTTTTCGAAAGGTGAGCGCTTTGCGCAGTGATGACCCTCATCTAT |
| ex3_5342183_x3 | AC121336.3/155535-155667 | 14 | 0.008 | 28.2 | 3 | UUGGGCAGUGAACACCCAAGUGUGCUUUAUAGUUCCUUUGGCUUUGACUUUGUGCUAGAGCAAUGUCUGUUAUUUUUCUCUGCAUUGAAAGGAGCAUUUAUCCUUUUAAAUGUAUUCAGAAAGCCAGUACAUU |
| ex3_5342216_x3 | AF001689.1/2296-2367 | 28 | 6E-11 | 56 | 3 | GGUGCAGAUGAUGACACUGUAAAGCGACCAAAGUCUGAACAAAGUGAUUGGUACCUCGUUGUCUGAUGCACC |

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| ex3_5343884_x3 | AJ609484.1/1-166 | 22 | ###### | 44.1 | 3 | CAGCACUUGAUACUAACCGAGCUGUCUAUAUCCUAGCCUUGUGUCAAAGGCUUGUGAUGUGUUGUGAUAGCUGGGUUUAAGAAGUGCAAUAUUAAAACAAAAGCCAUGAGUCUUUUAAGCCCAGUGUGUAAAGAUACACUCUGAGUUAUAACUCAGAGGCACAACU |
| ex3_5344556_x3 | CM000678.2/56946557-56946446 | 14 | 0.008 | 28.2 | 3 | AAGACTATACTTTCAGGGATCATTTCTGTGGTTGGTTACCAGAGAAGTTTCTCTGAACATGTAGAGCACTGGTAAAAAAAAATAAATAAGAAATCATTTATTTATTTTTTGA |
| ex3_5344850_x3 | AK027197.1/1806-1940 | 21 | ###### | 42.1 | 3 | CCGCAGCCAAUUAAGCCGACUGAGUUCCUUUCCUCAUGGGGACCCAGUGUGCGAUGGCUGCACACAGCAGCUUCCUUGGUAGUGUACGCAGCCUGUUGGUUGUAUGGGUUGCUGUAAGGGACCUUGGAGACAGGC |
| ex3_5346206_x3 | AM055742.1/1-134 | 14 | 0.009 | 28.2 | 3 | UUGCAUGUGGAAAUGUCUGCUUCUCAUUCCUUGGGAGCAGGAAUAUGUUCAUAACAUGCUACAUUAACAAAGGAGUUCUCAGGGCUGCCAACCUUCUAGUAAAGGUUGAGUGGUAGUAUAUUUCUCCAACAUAA |
| ex3_5346824_x3 | ENST00000408237.1 | 24 | 1E-08 | 48.1 | 3 | GGGGTGTGCTCAGAGCAGGGGGCCTAAAGAATGGCTCCTCTGTTTATAACACACCCAACA |
| ex3_5347712_x3 | CM000685.2/23507313-23507211 | 16 | 0.001 | 32.2 | 3 | ATCCCTTTATAGTTCCCGAGCATGACGATTGGGTGTTCACATGCATGTGTGAGATGTACCACCCTCGCATCTTGTTAGACGTTGGCACATTACCCGTCTGACC |

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|---|---|---|---|---|---|---|
| ex3_5349062_x3 | AL132709.5/133438-133369 | 15 | 0.005 | 30.2 | 3 | UGGUUCAGUGUUGACUACUGGUGUCGUGUGAGUCAUACAAUGAAUACAUGUCUGGAACUCUGAGGCCCAU |
| ex3_5349551_x3 | BA000025.2/106547-106465 | 35 | 5E-15 | 69.9 | 3 | UGGGAGUGGUAAUGAUGAUCUGGUUGGACAAGAGUCUCUGAGCUUUUCUCUGAGGAUCUUUGAACCCACCUGAUCCACCUUCA |
| ex3_5350328_x3 | AC005682.2/110683-110610 | 21 | 5E-07 | 42.1 | 3 | UGGCCAAGGAUGAGAACUCUAAUCUGAUUUUAUGUGCUUCUGCUGUGAUGGAUUAAAGGAUUUACCUGAGGCCA |
| ex3_5354342_x3 | AK095831.1/758-827 | 35 | 5E-15 | 69.9 | 3 | GGUGAAAAUGAUGAAUUCUGGGGCGCUGAUUCAUGUGACUUGAAAAAUGCCAUCCAUUUCCUGAUUCACC |
| ex3_5355161_x3 | ENST00000386683.1 | 51 | 3E-24 | 101 | 3 | GGATTTGTGATGAGCTGTGTTTACTGAGCATGATGAAGTAAAGCTCAACGTGATTACTCT |
| ex3_5355389_x3 | CM000677.2/92417547-92417689 | 14 | 0.009 | 28.2 | 3 | AAGCATGGCACACTGGATGGGCGTTCTGCTTCTCTTTAAAGAGCATGGATTTATCCATACCATGTGACATGAATGAAATGAGGAGTTTTCAGGGCTGCCAACCTCTTGGTTAAGGTTCTGTGTAGTATATTTCTCCTACAATA |
| ex3_5357768_x3 | ENST00000365074.1 | 14 | 0.008 | 28.2 | 3 | CTGCAGATATTCTCACTGTTTTGATTTTGTAATAGTCAGGACAGGCTAACCATTCACTTT |
| ex3_5359205_x3 | ENST00000459159.1 | 25 | 3E-09 | 50.1 | 3 | TGGCGATGAGGAGGTACCTATTGTGTTGAGTAACGGTGATAATTTTATACGCTATTCTGA |
| ex3_5359622_x3 | ENST00000390930.1 | 32 | 3E-13 | 63.9 | 3 | GTGAAATGATGATTCAGTTTATCCATTCGCTGAGTGCGCTGCACTGACCTTCTTCCAAGC |
| ex3_5360951_x3 | ENST00000384744.1 | 23 | 4E-08 | 46.1 | 3 | GCATGGTAATGGATTTATGGTGGGTCCTTCTCTGTGGGCCTCTCATAGTGTACCCATGCC |
| ex3_5366009_x3 | AL132709.5/148004- | 22 | 1E-07 | 44.1 | 3 | UGGACCAAUUAUGACUACUGGUGUGAGUCACGCAUAAUGAACACCACGUGUCUGGAACUCUGAGGUCCAA |

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|---|---|---|---|---|---|---|
| | 147935 | | | | | |
| ex3_5366444_x3 | ENST00000606577.1 | 33 | 8E-14 | 65.9 | 3 | GGTCCTGGTGATGACAGATGGCATTGTCAGCCAATCCCCAAGTGGGAGTGAGGACATGTC |
| ex3_5368949_x3 | CM000673.2/119323409-119323293 | 15 | 0.006 | 30.2 | 3 | GTTGGATGAAAATCATCCCGGGCTTTGCCAGTGGCCGCGAGTGCCCAGAGCTTCCAGGGGCCTCAGCTCACCATGCACTGCCCCGTGTGTGGCAGTGAAACCCAGGCCCTGACAGGC |
| ex3_5371481_x3 | CM000675.2/46235773-46235670 | 14 | 0.008 | 28.2 | 3 | ATCCTTTAGTAGTTCATAAGCATGATGATTGGCTTTTTATGCTCATGAATAAAATATGCCTCCCTCAAGCCTTTTTATGACATTGGCACATTACCCATCTGACG |
| ex3_5371553_x3 | CM000679.2/19557560-19557711 | 30 | 4E-12 | 60 | 3 | GCCCAGGGTATGTTCACGGGGCGATGCTGCCCTCCCAGCTGGCCCATGGGTGACCCTGGGAACATTAACTGCCTCACAACGTTTGTGCCTCAGTTACCCGTAGATGTAGTGAGGGTAACAATACTTACTCTCGTTGGTGATAAGGAACAGCT |
| ex3_5372723_x3 | AJ609482.1/1-130 | 24 | 1E-08 | 48.1 | 3 | UGGACAUUUAUUUUUAUUCAGUUUCUUCUCAAGGUGAAGAUAACUCUUUGUAAAUGUCCUACAGAAAUAUAGUAGCUUUCUGUUCUUCCUUUGCAAGUAAAAAGGGUGGGUCGUUCCACUACUGACAUUU |
| ex3_5375912_x3 | AC010582.6/81476-81337 | 14 | 0.008 | 28.2 | 3 | UGAUGACUGUUCUUCCUGUUGCCUUCAGACCUGGCAUUAGGAUUUUAGGUCAUCAUAAAUUAAAAUUUGAUUUUCUUCACUCAGAGAAUAUUAGGAUAAUGGAGUUAUCUGUUCUCUGAAAUUUGCGGAAUCAAACAUGU |
| ex3_5376545_x3 | ENST00000384183.1 | 14 | 0.008 | 28.2 | 3 | TTTCTCATTTGACTACCACATTTTCTCCTAATAATAGATTTTAGTGGCTATGCTTATGGG |
| ex3_5377472_x3 | ENST00000363524.1 | 22 | 1E-07 | 44.1 | 3 | CCCTCCTACAAAGGCATGTCTATAGTTCCTTGTCTTTGGACATGTAAGAATTGGAGGCAA |
| ex3_5378771_x3 | AJ609427.1/1-137 | 14 | 0.008 | 28.2 | 3 | UUGGCCCUGAAUCAAGGCCAGCAGUUUGCUGAAGCUGUUGGUUUCAAGCAGGAGCCUAAAGAAUUGUCUUUCUAUGGUCUGUUGGCCAUUUCAUAACUUUGGAAAUGUAAUGGUCAAUUCAUUAGAAAGAAACAUGA |
| ex3_5380508_ | AP001324.4/9 | 18 | 3E-05 | 36.2 | 3 | ACAGAUGAUGAACUCAUUGACAGACAUACAGAGACUGUGUGCUGAUUGUCAUGUUCUGACUUA |

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|---|---|---|---|---|---|---|
| x3 | 5881-95819 |  |  |  |  |  |
| ex3_5381276_x3 | ENST00000364729.1 | 21 | 5E-07 | 42.1 | 3 | TCCTGCATCCGAAAGTGATCATAGGCTGCCTGTGCCTAGGTCATTGATAGTGCAGGGAGA |
| ex3_5384213_x3 | ENST00000459083.1 | 36 | 1E-15 | 71.9 | 3 | GGTGCAAATGATGCATATGTTAGCGACCAAAGCCTGATCTTTGCTGATTAGTCATAATTA |
| ex3_5384429_x3 | CM000670.2/99292971-99293049 | 25 | 3E-09 | 50.1 | 3 | AAGACTATACTTTCAGGGATCATTTCTATAGTTTGTTACTAGAGAAGTTTCTCTGAACGTGTAAAGCACCATTTAAAGT |
| ex3_5384639_x3 | BC028232.1/151-277 | 15 | 0.006 | 30.2 | 3 | GUUGGUUGAAAAUCGCCCCCGGCUUUGGCCGUGGCCGCGGGUGAGAUUCGGCGCCCAGAGCCCCCGGGGGCCUCAGCUCACCGCGCUGCCCCAUGUGCGGCGGUGAAACCCAGGCCCCGACAGGC |
| ex3_5387045_x3 | AL132709.5/183412-183335 | 29 | 2E-11 | 58 | 3 | UGGAUCAAUGAUGAGUAUUGGUGGAGGUGUCUGAAUCAACACUUUUGAUUAAGCCCUCUGUGUAACUCUGAGAUCUGU |
| ex3_5387750_x3 | ENST00000515966.1 | 14 | 0.009 | 28.2 | 3 | GCCCTATGTTAAAATTTTAATTCTGCACTTACTAACTATCTTGGGAACCTTGGGCAAGTA |
| ex3_5388677_x3 | ENST00000365465.1 | 22 | 1E-07 | 44.1 | 3 | AATCAATGATGAAACCTATCCCAAAGCTGATGACCTGAAGAAAAATACGTACAGATTCAG |
| ex3_5389316_x3 | CM000685.2/100822752-100822620 | 21 | 1E-06 | 42.1 | 3 | TAGCAAGCCTCCAGCATGCTTAGGTCTGCAGTGACCCTATGCATCCCTACAGTGCTTGCCAGAACAGTTTTGAAACGGTTTGAGGCCTTGCCCTGCTCCATCCAGAGCAAGGGTATAGAAATTTCAGACAATT |
| ex3_5389364_x3 | AB028893.1/10920-11006 | 23 | 4E-08 | 46.1 | 3 | GGCAGAUGAUGUUUGUUUUCACGAUGGUCUUCAGAUGCCCACGUGGGCACUGCUGAGAAAGCCACUUGGUAAAACUGAUGCCGGAAA |
| ex3_5389583_x3 | ENST00000362805.1 | 21 | 5E-07 | 42.1 | 3 | GGGCAATGATGAAAAGGTTTTACTACTGATCTTTGTAACTATGATGGTTTCTACACTTGA |

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| ex3_5390084_x3 | AJ010396.1/584-712 | 34 | 2E-14 | 67.9 | 3 | CGGCAGACAGUUAUCCCUUUCUAGUCUGGCUCGUGGGACUCUAGAGGGAGUCAGUCUGCAACAGUAAGUGGUGAGUUCUUCUGUCCAGCGUCAGUAUUUUGAUGGUGGCUUUAGACUUGCCAGAUAACA |
| ex3_5390909_x3 | AY349597.1/1-142 | 37 | 4E-16 | 73.8 | 3 | UUGCCCGAUGAUUAUAAAAAGACGCGUUAUUAAGAGGACUUUAUGCUGGAGUUCUUGACGUUUUUCUCUCUUUUCUAUACUUCUUUUUCUUUCUUUGAAUGUCCAGCGUCCUGUGAGCGAAGAUUAUGAGAUAUGAGGGCAA |
| ex3_5391206_x3 | CM000676.2/63651499-63651296 | 15 | 0.002 | 30.2 | 3 | AAGACCATATTTTCAGGGATCATTTCTATAGTTCATTCATTACTAGAGAAGTTTCTCTGAACATGCAGGGCACCGCAAACCATGAGGAAGAGGCACAGCATTCTCTTCTGAGCCTGAAGCCAGCTCTTCTTGCTTCACTGCCATTTGCCCTTCATGATCATTCTCTTCCTGCAGGAGAGTAAGAAAGGATGCAGTCTGAGTGGT |
| ex3_5392031_x3 | ENST00000363315.1 | 36 | 1E-10 | 56 | 3 | CTGAGCTGAGGATGATTTAAAGTTATCCCTGTCTGAAATGGTATCTTTTGTGAGGAGGTC |
| ex3_5394563_x3 | CM000673.2/93730646-93730513 | 33 | 8E-14 | 65.9 | 3 | GGGTCATTTCAAAGAGGGCTTATGAGGCTGTGAAACCCAGAGCTCTTAACGCTGTGACCAAAGATGGAAGTTCTCTATAGGAAGCCATAGCACTCCTAATGTTTGGTGCTATGTTTTCCTGAGGAGATATAAAA |
| ex3_5395136_x3 | CM000681.2/49949527-49949316 | 16 | 0.0008 | 32.2 | 3 | AAGATGACACTTTGAGGCATCGTGTCTATGGTTCATTACTACAGAAGCTTCTCTGGATGTGTAAAGCACAGGAAACCAGGCAGAGGAGGCACAGGGTGCTCTCCAGAACGAGAAGCCAGCTCCTGGAGTTGTTTGCTGCAACTGCCATTCCCCGTTGATGACCATGCTCTTCCTTCAGAAGAGGGAGAGTGAGAGGACCAAGTCCAAGTGGT |
| ex3_5395412_x3 | CM000673.2/66995625-66995478 | 18 | 0.008 | 28.2 | 3 | AGGACTGTACTTTCAAGGATCATTTCTATAGTTTATTACTAAAGAAGTTTCTCTGAACATATAAAGCAAAACATTTTTTAAGAAGAAAAAATAGACCAGATGCTGTGGCTGACACTTGTAGTCCCAGCACTTGGGTAGGCTGAGGTAG |
| ex3_5400827_x3 | AY841870.1/3444-3579 | 28 | 6E-11 | 56 | 3 | GCAUGGGUUUGGAUUUAUGACAGGCCCGUCACCCUGGGCCUGUCAUAGUACCCCAUGCCAGAGCAAACUGUGUCCCCGAACCAUUGCCUGGCCUCUGUGCCCGUAGGCUGCUGGCACUGAAGUGGGUUGCACAGUG |
| ex3_5400968_x3 | CM000668.2/8871443 | 25 | 3E-09 | 50.1 | 3 | TCAGCTTGAGTCACTCTTCCCAGGCTTTATCCAGGTGGCTTAGGTTAGCTAGGGCTGTGTCCCGTGATGTACAGTCCCTTTACACAATGTTGGAGATAAAACTTGGCCTCATGTCTTGCTTCATATTCCCACAGCCTCTCAGAGTCCTGTGGACAATGACTAGGGAGACAAA |

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| | 0-88714242 | | | | | CCATGCAAGCAACATAT |
| ex3_5401379_x3 | AJ609453.1/1-134 | 21 | 5E-07 | 42.1 | 3 | UGCAGCCGUGUCAAAUUCAGUACCUGUCCUAUGCAUGGUAGGCACUGGCCCAGAAGGCUGCCACAGAAACACUGUGACUCAUGGGCCCUGUUCCUGUGUCCCAGGCUCAGGGAUAAAUUUGGUUACAGACAUCA |
| ex3_5401580_x3 | CM000668.2/53147929-53147829 | 15 | 0.004 | 30.2 | 3 | AAGACTATACTTTCAGGGATCATTTCTATAGTTTGTTACTAGAGAAATTTCTCTGGACATCTAGAGCACACACAAAAAAGAAAAAAGGAACTTCATTCTTA |
| ex3_5402579_x3 | KV880768.1/1517190-1516953 | 15 | 0.002 | 30.2 | 3 | AGTCACCTTTAAAAAAGGCAGGTCCCCCAGCAGCCCATTTTTTTTTTCCTCCCATCACATTTAAGTCATGTGTATGGGATCATGAAGGAGGTGATAATTTGGGGTTTTTTCAGTGTATGTTTCTGAGAGTGAATGGTTCACAGCTGACGAGTATCCAACAGAACCAGTTACACAGGAGATTGAGGAGTGGCTGTCATGGCTGTGACAGTGCATGATCTCAAGTTTTCAATCTGAGACC |
| ex3_5403236_x3 | AM055729.1/1-131 | 28 | 6E-11 | 56 | 3 | GGGGUGUGCUCAGAGCAGGGGGCCCAAAGAAUGGCUCCUCUGUUUACAACACACCCAACAGGAAUCUGGGGUCAUUGUGAUGAGGGCGUCAAACUUGUGGCUUCCCUAUGAACAAACGUCCCCCAACACCU |
| ex3_5403299_x3 | ENST00000391196.1 | 34 | 2E-14 | 67.9 | 3 | GATCACGGTGATGGCTGACCAGGGCTCCCTGACCTATACAGGCCTCTGCTATGGGGGTGA |
| ex3_5403677_x3 | AJ609457.1/1-135 | 30 | 4E-12 | 60 | 3 | CUGCAUUCUUAAACCCUCUUGGUAGCUUCGUUCUAAGUGCUUCCAAGAUAUGAGUGAAUGCUAUAGAAAUUGCAGGGGAGUCCAAAGGGCUGCGCUUCUCCCGUGGCUCAGUCUUAUUUCAUACCUGCGACAUCU |
| ex3_5404349_x3 | ENST00000363497.1 | 26 | 8E-10 | 52 | 3 | TGGACCAATGATGAGATTGGAGGGTGTCTGAATCAAAAATTTTGATTAAAGCCATCTGTA |
| ex3_5404622_x3 | AL445624.3/80903-80775 | 20 | 2E-06 | 40.1 | 3 | CUAGCAUUUUCACAGGUCCUCCCUCAGGCUAUGGGGCCAGGAUUUGGUAGCUGGUGCUGAGAGAAAACGCUUGAUUGCAUCCUUGCCCUGGGACUGUGCCAGUGGCAGCUGUCACUCAAUGGGACAAUU |
| ex3_5404958_x3 | ENST00000384158.1 | 26 | 8E-10 | 52 | 3 | GTCTTCTCATTGAGCTCCTTTCTGTCTATCAGTGGCAGTTTATGGATTCGCACGAGAAGA |
| ex3_5405183_x3 | CM000682.2/4927894 | 21 | 5E-07 | 42.1 | 3 | GCTGGTGTAAATGATGACTTCACTTTTTTCCCCATCAGATCGACAATGCTGACGTCTTATATTTTGCCAGTTAGTTCTGATACATCGGC |

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| | 0-49279028 | | | | | |
| ex3_5405762_x3 | ENST00000459584.1 | 20 | 2E-06 | 40.1 | 3 | GGGCTAATGATGGAAAAATCATTATTGGAAAAGAATGACATGAACAAAGGAACCACTGAA |
| ex3_5406020_x3 | CM000663.2/85592280-85592356 | 19 | 1E-05 | 38.2 | 3 | GAAAATACATGATGATCTCACTCCAACTGGAACTCTCTCACTGATTACTTGATAACAATAAAATATCTGATATTCTG |
| ex3_5406245_x3 | CM000667.2/138559039-138558970 | 23 | 4E-08 | 46.1 | 3 | GTGCCGTGATGTATTTGTCAACACATCACTCTGAAGAAAAGTATGTGGTGACTTTCTGTGACTGAGCATG |
| ex3_5407261_x2 | AC007448.14/61996-61858 | 24 | 1E-08 | 48.1 | 2 | UGCACUGCAUGGCAUCUGCACCCAGCAGUUUACUCUUGCUAAGGUGUUCAAAGGUCAGUGCUAUAGAAAUUCAGUAUCUGGCAUCAUUGGUUUUCUUGACUUUGUGCUUGUUAAACCUAGUAUUUCUAUUGAUACAGUA |
| ex3_5407571_x2 | AB028893.1/3795-3879 | 20 | 2E-06 | 40.1 | 2 | GCGGCCGGUGAUGAGAACUUCUCCCACUCACAUUCGAGUUUCCCGACCAUGAGAUGACUCCACAUGCACUACCAUCUGAGGCCAC |
| ex3_5407589_x2 | AC104843.3/81519-81640 | 14 | 0.009 | 28.2 | 2 | GCACCCCUUUAAGGCUGAUGCAAUGCUUUAAGAGGCUAACACAGAAGGGUGAAGCCAGUCUCCUUAAAACCCAAAGAAGAGAUUGUAAAACUUCUCUUUGGCUCCUGUCUGGAGUCACAGCU |
| ex3_5408009_x2 | CM000667.2/149695959-149695748 | 15 | 0.004 | 30.2 | 2 | AAGACTCTACTCTCAGGGCTCATTTCTGTCATTCAATACTAGAGAAGTTTCTCTGAATGTTTAGAGCACTGGAAACCAAACGGAGGAGGCGGGCATTCTTTCCTGAGCATGCAGCCAGCTCATAGTGTTGTTTTGTTGCAGCTGCCGCTTGCCATTGATGATCCTTCTTCTCTTCCTTCAGGGGAGTAAGGAGACGACGCGGTCTTAGTGGT |
| ex3_5408443_x2 | CM000672.2/49954214- | 20 | 3E-06 | 40.1 | 2 | TCCAGCAGTAGTCAGCTGTCTGGACAGAACCATTCCTGGGATGGTGTTACACTGCTGGGAGAAGAATGTCTTCTCTTCATCCAGTTGCCTCCATCACTGTTCTGGTGGTGTCTGGCACTGGTGCAAGGCAGAACTGTGCTTCCTTGAGAGTGTGCTGAGCATTCACCTTGGCTGCTTGGTTCTAGTCTGGGAGCAGACACA |

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|  | 49954414 |  |  |  |  |  |
| ex3_5408831_x2 | ENST00000364597.1 | 14 | 0.009 | 28.2 | 2 | GGCGGCCCTTATCACAGCTGCAGCTGCTTCCACATAGCTGCTGCGGTCAAAAAGGAGCCC |
| ex3_5409069_x2 | ENST00000365609.1 | 14 | 0.009 | 28.2 | 2 | TCACTGTGATGATGGTTTTTCAACGTTCACAGTTTCCACCAGAAAGATTTTCCTTAGTGT |
| ex3_5409663_x2 | ENST00000458892.1 | 15 | 0.006 | 30.2 | 2 | TGGCAACTGTGATGAAAGATTTGGTCTGTATGTAATAGATTTTATTACTAAATGAGGACA |
| ex3_5409675_x2 | AL132709.5/180473-180397 | 26 | 8E-10 | 52 | 2 | UGGAUCAAUGAUGAGUAUGCGUGGGGCAUCUGAAUCAAAUAUUCUGAUUAUACCCUGUCUGUAUCUCUGAGGUCCAU |
| ex3_5409861_x2 | ENST00000516310.1 | 14 | 0.008 | 28.2 | 2 | GTTGGATGAAAATCATCCCGGGCTTTGCCAGTGGCCGCGAGTGCCCAGAGCTTCCAGGGG |
| ex3_5409925_x2 | ENST00000384418.1 | 26 | 2E-07 | 44.1 | 2 | GCCCGCCTTGGCCTCCCAAAGTGCTGGGATTCTTACATCGACTGCATAGAAAGAGGAGAG |
| ex3_5410175_x2 | AC112907.7/62863-62686 | 27 | 2E-10 | 54 | 2 | ACCUUCUUGUAUAAGCACUGUGCUAAAAUUGCAGACACUAGGACCAUGUCUUGGUUUUUGCAAUAAUGCUAGCAGAGUACACACAAGAAGAAAAGUAACAGCACUAGAUUGUAAAGACUGGGGUGGACCUCUUUCUUAAUGUCCAAUGUCCUUUGUCUUAAGAUUUGGUGCAAUAUCU |
| ex3_5410383_x2 | AP000033.1/31795-31930 | 29 | 2E-11 | 58 | 2 | GCAUGGGUUUGGAUUUAUGAUGGGCCCGUCCCCCUGGACCUCUCAUAGUACCCCAUGCCAGAGCAAACUGUAGCCCUGAACCAUUGCCUGGCCUCUGUUCCCGUAGGCUGCUGGCACUGAAGUGGGUUGCACAAUA |
| ex3_5410609_x2 | CM000681.2/11439159-11439275 | 17 | 0.0001 | 34.2 | 2 | AGCCTCCCAAAGTGCTAAGCCGCCGCGCTTGGCCACGATGATTAGGTTTTTATGCACGTGTGAGAGATACGCCTCCCTTAAACCTTGTTGCGACCTTGGCGCATTACCTGTCTGATA |
| ex3_5410617_x2 | AL132709.5/182043-181969 | 36 | 1E-15 | 71.9 | 2 | UGGACCAGUGAUGAAUAUCAUGGGGUUUCUGAAACAACAUUUUUGAUUAAACCCAUCUGCAACUCUGAGGUCCAU |
| ex3_54 | CM000 | 35 | 6E-15 | 69.9 | 2 | AAGACTATACTTTCAGGGATCATTTCTATAGTTTGTTACTAGAGAAGTTTCTCTGAACG |

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|---|---|---|---|---|---|---|
| 10853_x2 | 676.2/85271932-85272010 |  |  |  |  | TGTAGAGCACTAAAATGCTA |
| ex3_5411467_x2 | AC093462.11/145947-146075 | 21 | 5E-07 | 42.1 | 2 | UGAGCACUUUCACAGGUCCUCCCUCAGGCUGUGGGGCCAGGAUUUGGUAGCUGGUGCUGAGAGAAAACCUUUGUUGGCAUCCUUGCCCUGGGACUGUGCCAGUGGCAGCUGUCAUUCAAUGGGACAAUU |
| ex3_5411513_x2 | CM000663.2/28578822-28578749 | 38 | 1E-16 | 75.8 | 2 | ACTGGTCCAGGATGAAACCTAATTTGAGTGGACATCCATGGATGAGAAATGCGGATATGGGACTGAGACCAGCT |
| ex3_5411583_x2 | CM000668.2/25435280-25435401 | 16 | 0.0007 | 32.2 | 2 | ATCCTTTTGTAGTTCATGAGGGTGATGGTTGGGTGTTCACGCACGTATGTGAGATGTGCTACCCTCGAACCTTGTTAAAGAAAAAAAAGCTAATATTGTATTAGTATATATCTGTGTGACT |
| ex3_5412957_x2 | AL132709.5/137723-137652 | 40 | 7E-18 | 79.8 | 2 | UGGAUCGAUGAUGACUACUGGUGGCGUAUGAGUCAUAGACAAUGAAUACGUGUCUGGAACUCUGAGGUCCAU |
| ex3_5413501_x2 | ENST00000391286.1 | 22 | 1E-07 | 44.1 | 2 | GTGCCCTTTTAAGGTTGACCCAGTGCTTTAAGAGGCTAACACAGAAGGGTAAAGTAAGTC |
| ex3_5413671_x2 | ENST00000364957.1 | 25 | 0.0002 | 34.2 | 2 | ACTCCAGCCTGGCTGACAGAGTGGGACCCCATCTCAAAAAAAAAAAAAAAATTAAGCTGG |
| ex3_5413851_x2 | CM000678.2/68630354-68630223 | 31 | 2E-05 | 38.2 | 2 | TGAGATGAGATCATGCCATTGCACTCCAGCCTGGACGACAGAGCGAGACTTCATCTCAAAAAAAAAAAAGGATCCTCAGGGCTGCCAACCTTATAGTAGAAGTTGAGGTGGTAGTGGATTTCTCCTACACAA |
| ex3_5414627_ | AL132709.5/1 | 22 | 1E-07 | 44.1 | 2 | UGGACCAAUGAUGACCACUGGUGGCGUUUGAGUCAUGGACGAUGAAUACUACGUGUCUGAAACUCUGAGGUCCAA |

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|---|---|---|---|---|---|---|
| x2 | 68250-168176 | | | | | |
| ex3_5414695_x2 | CM000668.2/92790453-92790665 | 15 | 0.004 | 30.2 | 2 | AAGACTCCTTTCAGGAATCATTTCTTTAGTTCCTACTAGAGAGGCTTCTCTTAACATGTGGAGCGCTGGAAACCACAAAGAGGAGGTGCAGCATTCAGTTCTAAGTGTGAAGTGGATTCTTGGTGTTGCTGTGCTGCAACTGCCATTTGCTAATGATGACCTTGCTTTTCTTACTTAGAGTAAGACAGAGAGACAGCAGTCAGCCTAAGCGGT |
| ex3_5415311_x2 | ENST00000391076.1 | 29 | 2E-11 | 58 | 2 | ATGTAATAATGTTCATCAAATGTCTGACCTGAAATGAGCATGTAGACAAGTTAATTTAAC |
| ex3_5415465_x2 | ENST00000365153.1 | 14 | 0.009 | 28.2 | 2 | CAAATACATGATGATCTCACCTCAGTTTGAACTCTCTCACTGATCACTTGATGACAATAA |
| ex3_5415705_x2 | ENST00000516013.1 | 15 | 0.002 | 30.2 | 2 | GTGCACATTGTTACATTGGGAGAAAAGATATTTCTGATGTGATGAATAAATTTTTGGAGA |
| ex3_5416847_x2 | CM000685.2/150902121-150902235 | 18 | 0.008 | 28.2 | 2 | AAGACTATACTTTCAGGAATTGTTTCTGTAGTACATTACTAGAGAATGTCCTCTGAATGTGCAGAGCACAGAAAAATACAAAATAATAATAAATTCCAAATCAGCTATCTGAGTA |
| ex3_5417493_x2 | ENST00000365012.1 | 22 | 1E-07 | 44.1 | 2 | GGGCAATGATGTAAAGGTTTTACGACTGACCTTTGTAACTATGAAGTTTTCTACACTTGA |
| ex3_5418063_x2 | ENST00000363931.1 | 18 | 0.009 | 28.2 | 2 | GGGTGGTGATGAGAACCTTGTATTCTTCTGAAGAGAGGTGATGACTTAAAAACCATGCTC |
| ex3_5418453_x2 | ENST00000384274.1 | 46 | 2E-21 | 91.7 | 2 | GGATCGATGATGAGTCCCCAAAAAAAACATTCCTTGGAAAAGCTGAACAAAATGAGTGAA |
| ex3_5418865_x2 | CM000665.2/183175007-183174894 | 15 | 0.004 | 30.2 | 2 | AAGACTATACTTTCAGGGATCATTTCTATAGTTCGTCACTAGAGAAGTTTCTCTGAACGTGTAGAGCACTGATGCAGCCAAAAAACACATGAAAAAATGCTCATCATCACTGGC |
| ex3_5419015_ | ENST0000036 | 14 | 0.009 | 28.2 | 2 | TGGACCAGTGATGGTGACTGGTGGTGTGTGAGTCATGCACAGTGAATATCATGTGTCTGG |

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|---|---|---|---|---|---|---|
| x2 | 3738.1 |  |  |  |  |  |
| ex3_5420585_x2 | AC068057.5/62929-63057 | 15 | 0.002 | 30.2 | 2 | CUGAGAAUAUCUUGCUGUUCUGAUUUUGUAAUAGGACAGGCUAUAAAGAUUGGCUAUAUUAAGGCCACGCACAUGUCCCCAGACUUAAUUCUUUCCCUAGGUCUGGUUUUAUAAACUCUGGUAAUAAAC |
| ex3_5420709_x2 | ENST00000365032.1 | 22 | 2E-07 | 44.1 | 2 | GCCTGCATTCGTAAGTGATCACGGGCTGCCCGTGTCCTGGTCATTGGTAGTGCAGGCAGA |
| ex3_5421799_x2 | CM000685.2/150811274-150811384 | 18 | 0.009 | 28.2 | 2 | AAGACTCTACTTTCAGGGATCATTTCTGTAGTTTGTTATTAGAGAAGATTCTCTGAAGGTGTAGAGCATCAAAAATAAAATAAAATTTTAAAAAGGAAATAGAAAATCTGA |
| ex3_5421973_x2 | AF250841.1/4124-4215 | 28 | 6E-11 | 56 | 2 | GGAUCGAUGAUGACCUCAAUACAUGCAUUCCUUGGAAAGCUGAACAAAAUGAGUGAAAACUCUAUACCGUCGUCCUCGUCAAACUGAGGUCC |
| ex3_5422077_x2 | ENST00000391162.1 | 30 | 4E-12 | 60 | 2 | AGTTGTGGTGGTTTTCTTTTTGGCACATTTGTTAAGTTTTCAAATGGGCCTAACTCTGCC |
| ex3_5422787_x2 | AC013722.8/184033-183920 | 27 | 2E-10 | 54 | 2 | ACUGAGGAAUGAUGACAAGAAAAGGCCGAAUUGCAGUGUCUCCAUCAGCAGUUUGCUCUCCAUGGGCACACGAUGACAAAAUAUCCUGAAGCGAACCACUAGUCUGACCUCAGU |
| ex3_5423065_x2 | AF250841.1/6375-6466 | 31 | 1E-12 | 61.9 | 2 | GGAUCGAUGAUGACUUUUAUACAUGCAUUCCUUGGAAAGCUGAACAAAAUGAGUGAAAACUCUAUACCGUCAUCUUCGUUGAACUGAGGUCC |
| ex3_5423559_x2 | ENST00000384765.1 | 35 | 5E-15 | 69.9 | 2 | GACCTCCTGGGATCGCATCTGGAGAGTGCCTAGTATTCTGCCAGCTTCGGAAAGGGAGGG |
| ex3_5424695_x2 | CM000668.2/134206514-134206411 | 15 | 0.002 | 30.2 | 2 | ATCCCTTTGTCGTTTATAAGTGTGATGATTGGGTTTTCATGTTCCTGTGTGAGATATGCCTCCTTCAAGCCTTGTTATGATGTCTGCACATTACCTGCCTGTCA |
| ex3_5424967_ | CM000663.2/1 | 15 | 0.004 | 30.2 | 2 | AAGACTATACTTTCAGGGATCATTTATATGATTTGTGGCTACAGAAGTTTCTCAGCGTGAGGAGCCCCAGAAACCATGAGGAGGAGACGCAGCATTCTCTGTGGCGCGTGAGG |

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|---|---|---|---|---|---|---|
| x2 | 16278606-116278821 | | | | | CCAGCTCTTGGTTTTACTTCGCTACAACTGCATTTGCCATTGGTGATCGTTCTTCTCTCATCTCAGGGAGAGTAGAAGGGAGAGAAGATGCAGCCTGAGTGAT |
| ex3_5425441_x2 | CM000664.2/215302766-215302864 | 14 | 0.008 | 28.2 | 2 | ATCCTTTTGCAGTTCATAAGCATGAAGTTTGGGTTTTCACATGCATCTGTGAGAAATACCTTCCTCAAACCCTGTTACAATGGTGGCTCACATCTGTAA |
| ex3_5426487_x2 | ENST00000386747.1 | 37 | 4E-16 | 73.8 | 2 | GCTGTTCGTTGATGAGGCTCAGAGTGAGCGCTGGGTACAGCGCCCGAATCGGACAGTGTA |
| ex3_5426797_x2 | CM000675.2/32420516-32420390 | 15 | 0.005 | 30.2 | 2 | AATTGGGATCAAAGATGCAGCCGCCTTCCCATTTAAGCAGCACAGACAGCCCAAAGTGACAGTTTTCCTGTACAGTTACTCTTCTGTTATCTGTAACTGATCTATGACATTTTGGGAAAAAACAGCC |
| ex3_5427505_x2 | ENST00000517059.1 | 16 | 0.0006 | 32.2 | 2 | TCAAATGAGCCTGAGCTGACATTGTAGAGGATGTAGATGGCTGAAGAAACTGTTCAGCTG |
| ex3_5427525_x2 | AC005214.1/14143-14018 | 21 | 5E-07 | 42.1 | 2 | AAACCCCUGUUCACUUUGCCAAAUGGAUUUGUGUCUUUAUUGCUCAUUAAUUGGGGCAAAGGAAAUAUCCUUUUAAAACUCAGGCAAACUGAGUGUUUGUCUUGUAUCCUGUCAGAGGAAAGAAAU |
| ex3_5427585_x2 | ENST00000364009.1 | 21 | 5E-07 | 42.1 | 2 | TCACAATGATGAATGGTCCAAAACATTCGCGGTTTCCACCAGAATTCAAGGTGTTGGCAA |
| ex3_5427709_x2 | ENST00000364672.1 | 16 | 0.001 | 32.2 | 2 | AAGGCAGCATTGTTGTAGATGATTTGAAAGATTTTAAAAGGTATAAGCTCACAAGTGTAG |
| ex3_5428301_x2 | ENST00000516006.1 | 15 | 0.005 | 30.2 | 2 | GGATCGATGATGACTATAAAAAAAATGGATCTCATCGGAATCTGAACAAAATGAGTGACC |
| ex3_5428433_x2 | CM000672.2/61226196-612262 | 17 | 0.0002 | 34.2 | 2 | AGTGTATGATGACACCTTGGTAATGCTGCAGACTCCTCAGTGTGCAGTGAAGAGGTGAACTTTGAAGAGTCACA |

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| ex3_5428729_x2 | CM000663.2/28689665-28689794 | 14 | 0.008 | 28.2 | 2 | TGGACATTTATTTTTATTCAGTTTTTTCTCAAGGTGAAGGTAACTGTTTGTAGATGTCCTAGAGAAATATTGTAGCTTTCTGTTCACCCTTTGCAACTAAAAAGCATGGACTGTTCCACTACTGAGATTT |
| ex3_5429451_x2 | ENST00000408473.2 | 15 | 0.002 | 30.2 | 2 | TAGGCGGCTTTCAGGGATCATTTCTATAGTCTGCTACTAGAGTACTTTCTGTGAAAGTGT |
| ex3_5430489_x2 | CM000674.2/56645101-56645027 | 22 | 1E-07 | 44.1 | 2 | CCTTCTATGATGATTTTATCAAAATGACTTTCGTTCTTCTGAGTTTGCTGAAGCCACATTTAGGTACTGAGAAGG |
| ex3_5431049_x2 | ENST00000459477.1 | 15 | 0.003 | 30.2 | 2 | CTGCATGTGGAAATGTCTGTTCTTCATTCTTTTAGGAGCAGGAATACATATAGATATAAA |
| ex3_5431075_x2 | CM000665.2/156008880-156008801 | 15 | 0.003 | 30.2 | 2 | TAGACTATACTTTCAGGGATCATTTCTACAGTTTGTTACTAGAGAAGTTTCTCTGAATGTATAGAGCACCGAAGACAAGC |
| ex3_5431615_x2 | AY077738.1/1-265 | 25 | 3E-09 | 50.1 | 2 | GGUCAAUGAUGAAUGGUAAAAGGUCUGAGUCCUCAGAUCCCCUCCCGGCAUCCCAGUUAUCCCCAGCUGCCUCUCCUCCAUCGCACUUCAGAAGUGCUGCGAUGGGCAGAAGGGCAGCUGACACUCCGUGAUGUCCCUCAUUCUGUGUUCCUCCGUGAGCUCAGGGAAGACACUGGUUGGCAUCCAACAGCUUAGUCACAAAGGGAUUUGAUUGUUGGGAGUGCUGGUAUCUGUGGCUAUGAUCUGCCUUGUUCAAGCUGAGACC |
| ex3_5432217_x2 | CM000665.2/183453814-183453944 | 14 | 0.009 | 28.2 | 2 | AGGCAGGATCTAGTTACATTGTAGCTGTGAAGTGCTGCATTGTCTTTGCCCCCTGCTCAAAATAAAACTGTTACCTTTCAAGCCCTGTCTGCCATGGTGCTGTAGCAGCAGGGATGTTTGGTCTCATACAT |
| ex3_5432317_x2 | ENST00000516449.1 | 18 | 0.009 | 28.2 | 2 | TCCCATCTCTTAAATAAAAAGATTTTTTTTTTAAGAAGTTGTACATGTGCAATGGCTGCA |
| ex3_54 | AJ6094 | 46 | 2E-21 | 91.7 | 2 | CUCCAUGUAUCUUUGGGACCUGUCAGCCGUGGCAGUCUCCCUUCCUAGCCAUGG |

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|---|---|---|---|---|---|---|
| 32435_x2 | 78.1/1-124 | | | | | AAGAGCAUAUCCUUGUUUAUUGGCAAAGCUGUCACCAUUUAAUUGGUAUCAGAUUCUGACUUGCACAAGU |
| ex3_5432591_x2 | AC112497.4/53262-53124 | 15 | 0.004 | 30.2 | 2 | UACCUCCCAGGAUGGCAUCUGGAAGUGGAUAGUAUUCUGCCAGCUUUGGAAACUGGAUGAAAAGCAAAUCUGGCAGAGGUACCCAUUUCAUUCCCAGCUUGCUCAGUAGCUGGUGAUUGGAAGAAACUCUGCAACAGUG |
| ex3_5432727_x2 | AC008083.23/27997-28128 | 14 | 0.009 | 28.2 | 2 | GGCCUCUCAGUGCCGCUUAAUCACACAGGUCCAGUGUGUGCUUGGUGUCUUUUCUGGGAGGCAGAGGAAGGCUCUCCUAAUCACAACAGACCUGCCCAGAAGGGCCUCUCUAUUUCUAGGAGUAUGAUAGCU |
| ex3_5432943_x2 | CM000668.2/51464690-51464765 | 14 | 0.008 | 28.2 | 2 | GTCCTCTGATGACTTCATGTTAGTGCCACCTGTCTGGGCCACGGAGAACCCATGATGGAACTGAGAATCTGAGGAA |
| ex3_5433091_x2 | CM000676.2/20323326-20323179 | 28 | 6E-11 | 56 | 2 | TGATGGCTGTTCCTCTCACTGCTTGAAGCCTTAGGCAGTGGGATTTTGATCCATCATATATCAAAAATGGCTTATCTTCACTCAGGGCACCATGAGGATGGGCTGGCTGTCCGTTAGTGCCTTCTGATTTTTGCGGAGTCAAACAATT |
| ex3_5433467_x2 | ENST00000391075.1 | 15 | 0.005 | 30.2 | 2 | GTAGGTGACGACCAATATTTTTTTTACTTTGACTTGATGTCTATTGAAGAAATCTAGCAT |
| ex3_5434207_x2 | AL132709.5/152651-152577 | 35 | 7E-15 | 69.9 | 2 | UGGACCAAUGAUGACAAAUACCGGCGUAUGAGUCUUGGAUGAUGAAUAAUACGUGUCUGGAACUCUGAGGUCCAU |
| ex3_5435349_x2 | ENST00000408535.2 | 32 | 3E-13 | 63.9 | 2 | GCGCTGTCTTTGAGCCCCCGCCGAGCTTCCTCGTGGCGCCGGGGGTCAATCTGCAGCGCT |
| ex3_5435655_x2 | CM000679.2/7577955-7578091 | 21 | 5E-07 | 42.1 | 2 | ATCCAAGGTGATTCCCTCTCCAAGGGGACATCAGTGCCTCTCAGGAAAGTAGCAGCTTGGAATAGAATCTGGCATGCCTAAGGCCTTTGGGGAACTGGGATGCTTATTTCCTCTGCCTTCCTTGGCTGCCCACATGG |
| ex3_5436555_ | ENST0000039 | 15 | 0.005 | 30.2 | 2 | GTCCTCTGATGACTTCATGTTAGTGCCACCTGTCTGGGCCACGGAGAACCCATGATGGAA |

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| x2 | 1230.1 | | | | | |
| ex3_5437409_x2 | AL132709.5/167225-167151 | 14 | 0.008 | 28.2 | 2 | UGAGCCAGUGAUGAAAACUGGUGGCAUAGAAGUCAAGGAUGCUGAAUAAUGUGUGUCUAGAACUCUGAGGUUCAA |
| ex3_5438505_x2 | ENST00000607417.1 | 15 | 0.004 | 30.2 | 2 | CAGCATTGTGCAATGGCCTTTGGTTTTTCTTGTAACCAGTTAGGTCTGAAACCAATGCAA |
| ex3_5438555_x2 | ENST00000383906.1 | 23 | 5E-08 | 46.1 | 2 | GCATGGGTTTGGATTTATGACAGGCCCGTCACCCTGGGCCTGTCATAGTACCCCATGCCA |
| ex3_5439005_x2 | ENST00000459623.1 | 28 | 6E-11 | 56 | 2 | TTTTGGTTGAAATATGATGAGTGTACAAAATCTTGATTTAAGTGAATGAAAAATTACAAG |
| ex3_5439241_x2 | ENST00000459473.1 | 29 | 2E-11 | 58 | 2 | GGTGAAAATGATGAATTCTGGGGCGCTGATTCATGTGACTTGAAAAATGCCATCCATTTC |
| ex3_5439803_x2 | ENST00000384107.1 | 26 | 8E-10 | 52 | 2 | TGCCTCATTCTAGAGAATGGGCACTGTTGATCATGGTGTCCAAAAATAGTTAATGTGGCT |
| ex3_5440045_x2 | AK124098.1/2478-2557 | 21 | 1E-06 | 42.1 | 2 | AGCUUAUCAGUGAUGUUGUAAAAAUAAAUGUCUGAACAUAUGAAUGCAGUAUUGAUUUCAGCAUUUAACUGAGAUAAGCG |
| ex3_5441163_x2 | ENST00000364749.1 | 22 | 1E-07 | 44.1 | 2 | ATCCAAGGTGATTCCCTCTCCAAGGGGAACATCCAGTGCCCCTCTCAGGAAAGTAGCAAC |
| ex3_5441517_x2 | ENST00000363807.1 | 14 | 0.008 | 28.2 | 2 | CTATTATGATGAGATTACGCTCTGTGGTCCGTGTTTCTGAAACACAGGATTTTGTGGAAG |
| ex3_5441635_x2 | ENST00000364027.1 | 14 | 0.008 | 28.2 | 2 | TTTAGGAACAGCCTTTGAGGAAGCCTGTGTTTGTAGGGACATCTGAGAGTGTTGATGAAT |
| ex3_5441789_x2 | ENST00000363922.1 | 39 | 3E-17 | 77.8 | 2 | GCATGGGTTTGGATTTATGATGGGCCCGTCCCCCTGGACCTCTCATAGTACCCCATGCCA |
| ex3_5442331_x2 | CM000679.2/29777619- | 17 | 0.0002 | 34.2 | 2 | CTACAACCAGCTACTGGTTGATCTTACATTTGATCTGGTGTGCAATGGCTGCAAACAGCAGCCTCCTTGGTGGTGTTTGCAGCCTGTTGCTTGTATGAGTTGCCCTAATGGACCTTGGAGACAGCC |

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| | 29777744 | | | | | |
| ex3_5442489_x2 | CM000683.2/40513144-40513279 | 14 | 0.009 | 28.2 | 2 | GCCCGCCTTGGCCTCCCAAAGTGCTGGGATTCTTACATCGACTGCATAGAAAGAGGAGAGAACATAACCTACCTACCCCGTACATACTTCAGCCCAGGTCCTGTGCCTCATCTGTAATATGAATGAAGAGACATGG |
| ex3_5442941_x2 | CM000671.2/88374269-88374352 | 23 | 5E-08 | 46.1 | 2 | AAGACTATACTTTCAGGGATCATTTCTATAGTTCGTTACTAAAGAAGTTTCTCTGAACGTGTAGAGCACCGGTACAAACAAATG |
| ex3_5443537_x2 | CM000663.2/222911947-222911844 | 14 | 0.009 | 28.2 | 2 | GTCCACTTGTAGTTCATAAGCAACATGATTTGGTTTTCATGCTGATGTGTGAGATGTGCCTCCCTCAAACCTTGTTACTATGTTGGCACATTACAAGTTTGACA |
| ex3_5444323_x2 | CM000679.2/69355283-69355133 | 15 | 0.002 | 30.2 | 2 | TGCACCTGTTTGAGGAATAAAGGAATTAAAACTCCCAAAAGAGGACAAATATTAACAAAAATGTATGGACAGACGCAAAAAAACAAATCCTCATTTGCAACCCAGAACTAATTGTTTAGTATGATTTTTGACACATATAAGAAGGAGTATT |
| ex3_5444541_x2 | CM000680.2/56957270-56957469 | 15 | 0.004 | 30.2 | 2 | TAGACGATACTTTCAAGGATCATTTCTATAGTTTGTTACTAGAGAAATTGCTCTGAATGTGTAGAGCAGCAGAAATCACAAAGAGGAGGCGCAGCATCCTCCCCTGAGCATGTTGCTTCCCTTCAACTGCGCTTTGCCATTACTGATGGTTCTTCTCTTCCTCTGCGAGAGTAAGAGGGAGAGGATGCAGTCTGAATGGG |
| ex3_5444813_x2 | ENST00000390964.1 | 15 | 0.003 | 30.2 | 2 | TGCACTTGTGTTTTTGTTTAACTGTGAACAAAGACTTATAGAGAAGTGCAAAAAATAAAT |
| ex3_5444887_x2 | CM000677.2/91835379-918354 | 16 | 0.001 | 32.2 | 2 | CTCCTTTTGCGGTTTATAAGCATGATGATTGGGTTTTCATGTGTGAGATGTGTCTCCCTCAAATCTTTTTATGAAGTAGATGCATTGTCTGTCTGACA |

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| ex3_5445655_x2 | ENST00000515921.1 | 15 | 0.003 | 30.2 | 2 | CTATCTAGCAAAATTTGGTTTAGAGGGAAAGTTTATAGTAGACTTTGCCAGCTGAAGTTG |
| ex3_5445859_x2 | CM000672.2/87994695-87994618 | 15 | 0.002 | 30.2 | 2 | CAGTCCAGCCTCTGATGAAGCCTATGTTAGTAGGCACATCTGAGTGGTAATGAATGCCAGCAGCTCTGATGAAAAAAA |
| ex3_5446043_x2 | CM000678.2/7726951-7726841 | 24 | 0.001 | 32.2 | 2 | AGCACTTGTATGTTTTAACATGTGGACATTTATAGACAGGTTCAAAAAGTCCTCTTGCAACCCAGAACTCGTTGTTCAGTATGAGTCTTGATACGTGTAAGAAGGGATTTG |
| ex3_5446301_x2 | AC116348.3/101703-101837 | 40 | 7E-18 | 79.8 | 2 | GCAUGGGUUUGGAUUUAUGAUGGGCUGGAUUCCCUAGGCCUCUCAUAGUACCCCAUGCCAGAGCAAACUGUAGCCCCAACCAUUGCCGGGCCUCUAUGCCUGUAGGCUGCUGGCACUGAAGUGGGUUGCACAGUA |
| ex3_5447029_x2 | ENST00000580726.1 | 36 | 2E-15 | 71.9 | 2 | TCCAGCAGTAGTCAGCTGTCTGGACAGAACCATTCCTGGGATCATGTTACACTGCTGGGA |
| ex3_5447921_x2 | ENST00000363181.1 | 44 | 9E-18 | 79.8 | 2 | GGTCAATGATGAGCTGACATGTATTCTGAATCTAAAGTTGATTATTAGTACTTTAGTTCT |
| ex3_5448117_x2 | AC004125.1/88446-88314 | 14 | 0.008 | 28.2 | 2 | AGCCUCUUUCUAGAUGAGAAUGGGCACUGUCGAUCAUGGUGUCUGAAAAUUGUAAGUGGCUAAAUUGAAACACAGGUUAUGCUUCCAUAAGAGUAUAUGUAUUGCAGUGGUGACAAUGAGACCUGUAACACUU |
| ex3_5448173_x2 | ENST00000458800.1 | 14 | 0.008 | 28.2 | 2 | ATTCAGATGCTGAATTTAACTGTTCAACTGCTGAACCACTCAACAGACATGAACGAAAGC |
| ex3_5449933_x2 | CM000663.2/112371004-112371107 | 15 | 0.006 | 30.2 | 2 | ATCCTTTCACAGTTCATAAGAGTGATGACTGGGTTTTCACTTTCATGTGTAAGATGTGCCTCCCTGAAACCTTGTTACAACATTGGCACATTACCCATCTGATG |
| ex3_54 | ENST0 | 14 | 0.009 | 28.2 | 2 | ACCAAGATTCAAGTCACATTCCGAGTGTCCCGGTGTGCTAGGGCACTTGCAGAGAAT |

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|---|---|---|---|---|---|---|
| 50145_x2 | 0000408166.1 | | | | | CTG |
| ex3_5450491_x2 | ENST00000391296.2 | 14 | 0.008 | 28.2 | 2 | AAGACTATTCTTTCAGGGATCATTTTTATGCTTTGTACTAGAAGTTTCTCTGAAAGTGTA |
| ex3_5450947_x2 | CM000663.2/36418578-36418450 | 22 | 1E-07 | 44.1 | 2 | AAGCAGGATTCAGACTACAATATAGCTGTTAAGTGCTGTATTGTCATTCCCCCTGCTCAAATTAAAGTTGTTTCTTAACTATACCCATCTGCTATTCTGTAGCAGCCAGGGATGCTTGGTCACATACAT |
| ex3_5451195_x2 | CM000670.2/131432955-131432776 | 14 | 0.009 | 28.2 | 2 | CTGCCAATATTCTCATTGCTCTGATTTTGTAATAGTCAGGACAGCCTAAACATTTGCTATATTTTTTTAATTTTTAATTTTAATTTTTGTGGGTATAACATTCACTATATTAAGATCATGCATGTGCCCCCAAACCTAATTCTTTTCTTAAGTCTAGTTTTATAAATGCTAATGATGAAC |
| ex3_5451671_x2 | CM000663.2/193731940-193731859 | 19 | 0.003 | 30.2 | 2 | AGCGTGAAGCTGGCTCTTGGTGCTCCTTCACTGAAAATGCCATTTGCCATTGATGATCGCTCTTCCCTTCCTCTGGGAGGAT |
| ex3_5451711_x2 | CM000673.2/57328961-57328859 | 30 | 4E-12 | 60 | 2 | ATCCTTTTGTAGTTCATAAACATAATGGTTGGGTGTTACGTGCGTGTGTGAAATGTGCCACCCTCCAGCCTTGTTACGATGTTGACACATTACCCATCTGACA |
| ex3_5452371_x2 | KZ208915.1/4293352-4293462 | 14 | 0.008 | 28.2 | 2 | AAGACGATACTTTCAGGGATCATTTCTGTAGTTTGCTACTAGAGAAGTTCCTCTAAACGTGTAGAGAAAAAAATGTTAAACAGGAATACATGAAGATCATCAAAGAATGGA |
| ex3_5452495_x2 | BX640788.1/449-324 | 14 | 0.008 | 28.2 | 2 | AGGUCACUUCAAAGAGGGCUUGUGGGGCUGUGAAACCAAGGGGUCUUAACAGUAUGACCAAAAACUGAAGUUCUCUAUAGGAUGCUGUAGCACUCAAUGGUGCUAUGUUUUCCUCAGGAGAUAUGA |
| ex3_5452729_ | ENST0000036 | 20 | 2E-06 | 40.1 | 2 | TGGTCAGGTGGAATAATCCTTATCTGTTTCTCCTTTTGAAGGGCAGATTAGAACATGATA |

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|---|---|---|---|---|---|---|
| x2 | 4940.1 | | | | | |
| ex3_5453469_x2 | ENST00000408712.1 | 14 | 0.008 | 28.2 | 2 | TCTGAGACTAGAGTCACATCCTGACACGGCTCTTCTCCAATGTGCTGGAGTCCTCAGCAT |
| ex3_5453557_x2 | ENST00000516379.1 | 14 | 0.008 | 28.2 | 2 | TTTAGTTCCATTAACAAAATCTAAAGTTGATTTATAGGCAGGTACAAAAAAATCAATCCT |
| ex3_5454057_x2 | ENST00000629629.1 | 32 | 3E-13 | 63.9 | 2 | AAAATGATGAGATTCCACTTAATTGGTCCGTGTTTCTGAAACACATGATATTTGTGGAAA |
| ex3_5454849_x2 | ENST00000410253.1 | 31 | 1E-12 | 61.9 | 2 | TGGACCAATGATGTGAATGGAATGCATCTGAATAAAAATTATGATCAATCAGTTTTTGGA |
| ex3_5455817_x2 | ENST00000459475.1 | 33 | 8E-14 | 65.9 | 2 | AGTTTGCCATGATGAAATGCATGTTAAGTCCGTGTTTCAGCTGATCAGCCTGATTAAACA |
| ex3_5456003_x2 | AJ609434.1/1-132 | 22 | 1E-07 | 44.1 | 2 | ACUGCCCCUAGAGGCGUUGCAGCUGUGGCUGCCGUGUCACAUCUGUGUCAUUAGGUGGCAGAGAUUAGAGAGGCUAUGUCUACGCUCAGCGUUCUGCCCCGUGAACGUUUGAAUGUUUGAUAGUCUCACACU |
| ex3_5456343_x2 | CM000677.2/25065026-25065121 | 31 | 1E-12 | 61.9 | 2 | GGATCGATGATGAGTCCTCCAAAAAAAACATTCCTTGGAAAAGCTGAACAAAATGAGTGAAAACTCATACCGTCATTCTCATCGGAACTGAGGTCC |
| ex3_5456381_x2 | CM000667.2/150543689-150543590 | 14 | 0.008 | 28.2 | 2 | AACTTTGCAGTCCATGCACGTGATGATTGGGTGTTCACACACGTGTGAGGTGTACCCACCTCGAACCTTGTTATGATCTCAGCACATTACCTACCTGACA |
| ex3_5456931_x2 | CM000677.2/25051477-25051571 | 31 | 1E-12 | 61.9 | 2 | GGATCGATGATGAGTCCCCTATAAAAACATTCCTTGGAAAAGCTGAACAAAATGAGTGAGAACTCATAACGTCATTCTCATCGGAACTGAGGTCC |
| ex3_5457649_x2 | AC007374.6/122865- | 23 | 0.003 | 30.2 | 2 | GGGUGUGCUCAGAGCAGGGGGCCCGAAGAAUGCCUCCUCUGUUUACAACACACCCAAUAGGAAUCUGGGGUCAUUGUGACAAGGGACACAGAGCUUGUGACCUCCCUACAAACAAAUGCCCUACACA |

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| | 122739 | | | | | |
| ex3_5457719_x2 | AC011749.2/64633-64502 | 15 | 0.004 | 30.2 | 2 | CUUCCCAUUUAUUUGCUGGUAUAAUGAUACAAUGAUAUGAGCAGUUAUACUCUUUGGAAAAAAUAAUAUUGGGCCAUUGUAAAUUGACAUGAAGUAAGUAUUUUCAUAUCAUCUGCAAUGGACUAGAUGUUG |
| ex3_5458357_x2 | CM000677.2/45710815-45710873 | 15 | 0.002 | 30.2 | 2 | AGAGTGCTGGTGGCTGATGAGCCCAGGGCTGCTCTTGCTCACTTTGCTGACAGCACTCG |
| ex3_5458839_x2 | ENST00000365321.1 | 15 | 0.006 | 30.2 | 2 | GTGAGTGATGAATAGTTCTGTGGCATATGAATCATTAATTTTGATTAAACCCTAAACTCT |
| ex3_5459471_x2 | ENST00000364642.1 | 35 | 5E-15 | 69.9 | 2 | CCCTGCATTCGAAAGTGATCATGAGCTGCCCGTGCCCTGGTCATTGGTAGTGCAGGGAGA |
| ex3_5460679_x2 | CM000668.2/113781464-113781311 | 15 | 0.004 | 30.2 | 2 | AAGACTATACTTCCCAGCATCATTGCTATGGTTCATTACTAGAAAAGTTTCTCCAACTTTGTAGAGCACTAGGAGCCAGAAGGAGGAGGTGCAGTGTTCTCTCTTTAGTGTGAAGCCAGCTTTGCTCTTCGGGAAGGAATGCAGTCTGAGCGAT |
| ex3_5460813_x2 | CM000666.2/185946083-185946186 | 14 | 0.008 | 28.2 | 2 | ATCCTTTTGGGGTTGATAGGTGTGATGATTGGGTTTCTATGCATGTGTGTGACATGTGTCTCCCTCAAAGCTTGTTACCACATCCGTACAGCACCCATAGGATG |
| ex3_5461131_x2 | CM000681.2/44764976-44765100 | 14 | 0.009 | 28.2 | 2 | ATGAACACTAGTCAAGCTAATTGTGCTCCTCTCCTCCTATGCAGTGGCGGCAAACAGCAGTGCCCTCAGTAGTATACGCAGCCTGCTGCGTGTAGCGGTGGCCTTAAGAGACCTTGGAGATAGCC |
| ex3_5461551_x2 | AP005857.3/135498-135653 | 15 | 0.003 | 30.2 | 2 | UCUCGUGGUAGUUUUCUUUUUGGCACAUUUGUUAAGUUUUCAAAUGGGCCUAACACUGCCACAUGUAUUAUACUGGAGUUGGCAAAGGCCUGUGACAAUGAGAUAUCUCUCAAGCCUUUCACGCCUUUCCUCUAUCAGAGAAUGGCUCCCACAUGU |
| ex3_54 | KZ208 | 14 | 0.009 | 28.2 | 2 | CTCCTTTTGTAGTTCAGGAGAATGATTTGGTGTTTGTGCCTAAGTGTGATATGTGCCT |

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|---|---|---|---|---|---|---|
| 61625_x2 | 908.1/66317-66216 | | | | | CCCTCTGAACCTTGTTACAGCGCTGGCACATTACCCATCCAACC |
| ex3_5461911_x2 | CM000664.2/69520174-69520043 | 20 | 2E-06 | 40.1 | 2 | TTCCAAAGTGTTGAGTTCAGTCCAGGGCAGCTTCCCTGTTCTGTTAATTAAACTTTGGGACATTGAAATGGGCTAGGGGAGATGATTGGGTAGAAAGCATTATTTTATTCATTTGCCTCCCAGCCTACAAAA |
| ex3_5462011_x2 | CM000680.2/21817624-21817828 | 14 | 0.009 | 28.2 | 2 | CCAATGTGTAATATCCTGGGATATCATTTTTTCTAGGCTTTGTCCACATGGCTTAGGGGAGCATAGGGCTCTGCCCCATGATGTACAGTCCCTTTCCTCAGTGTTGGAGATGAAGCTGGGTCTGGTGTTTGCACTTTCATATTCCTGTAGCTTCTCAGAATCCTGTGGACAGTGACTGGGGAGACAAACCATGCAGGAAATATGT |
| ex3_5462507_x2 | ENST00000391226.1 | 14 | 0.008 | 28.2 | 2 | AAGACAACGTAAATATATGTATAAAGAGTATCTTCAGGAGACGTAATAATGTAAAAATCA |
| ex3_5462831_x2 | ENST00000408784.1 | 15 | 0.003 | 30.2 | 2 | GGCCAGTGATGGTTTAAAAGTAATGGACAGAAGGTTTCTGAAATTCTATTTTGAAGTT |
| ex3_5463215_x2 | AF067016.1/546-676 | 14 | 0.008 | 28.2 | 2 | UUCCAAAGUGUUGAGUUCAGUCCAGGGCAGCUUCCCUGUUCUGUUAAUUAAACUUUGGGACAUUAAAAUGGGCUAAGGGAGAUGAUUGGGUAGAAAGUAUUAUUCUAUUCAUUUGCCUCCCAGCCUACAAA |
| ex3_5463811_x2 | ENST00000391308.2 | 24 | 1E-08 | 48.1 | 2 | AAGACTATACTTTCAGGGATTATTTCAGATAAACTTCTAGAGTTTCTCTGAACCTGTAGA |
| ex3_5463815_x2 | AL132709.5/171766-171695 | 21 | 5E-07 | 42.1 | 2 | UGGACCUAUGAUGAUGACUGGUGGCGUAUGAGUCAUUGACGGUGAAUACAGGUCUGGAAGUCUGAGGUCCAA |
| ex3_5463999_x2 | CM000679.2/28018770-28018907 | 19 | 0.005 | 30.2 | 2 | TGTCTCATTTTTGTAGATCAGGACACTGGGAGGCTCCCTTTTCTCCTTAGCCATGGCTGGAGGCCAAGTCCAGCCCTCAAGGATCATTGTCAGGACCAACACAAGCTGGACAGCCTTGTTTTCCTACCTCAGATGGGA |
| ex3_5465147_x2 | CM000680.2/5607959 | 14 | 0.009 | 28.2 | 2 | CCAACATGGATACCCTGGGAAGTCACTCTCCCCAGGCTCTGTCTAAATGGCATAGGGGAGCATAGGGTCCCATCCCAGGATGTACTGTCCTTTGCCACAAGTTAGAGATGAAGCTGGGTCTGGTGTCTGTGCCTGAATATTCCTACAGCTTCTGAGTCCTGTGGACAATGA |

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|---|---|---|---|---|---|---|
| | 4-56079394 | | | | | CAGAGGAGACAGACCATGCAGGAAATTTGT |
| ex3_5465933_x2 | ENST00000607595.1 | 15 | 0.003 | 30.2 | 2 | TCCAGCAGTCGTTAGCTCTCCTGGCTAGTGTGATGCCTGTGATGGTGTTTCACTGTTGGA |
| ex3_5466671_x2 | ENST00000363863.1 | 15 | 0.004 | 30.2 | 2 | TGTCAGTGCTGAAACTTTGTCAAGTTATGCTACTGACATGAAGTAATGATACAGTATATC |
| ex3_5468731_x2 | AB061842.1/1832-1898 | 20 | 2E-06 | 40.1 | 2 | UGGCGAUGAGGAGGUACCUAUUGUGUUGAGUAACGGUGAUAAUUUUAUACGCUAUUCUGAGCCAGCA |
| ex3_5468851_x2 | CM000683.2/34456237-34456110 | 16 | 0.001 | 32.2 | 2 | GGGGTGCACTCAGGGCAGGGGGCTTGAAGAACGGCTCCTCTGTTTACGACACACTCAACAGGGGTGTGAGGTCACAGTGATGAGAGGCCCAAACTTGTGGCCTCCCCGTGAACAAATGCCCTACACAT |
| ex3_5469843_x2 | CM000672.2/12145663-12145766 | 15 | 0.002 | 30.2 | 2 | ATGCTTTCGTAGTCCGTAGATGTGATGATTGGATCTTCACGCTCGTGTGTGAGATGTGCCTCTCTCCAGCCTTGTTAGGATGTTGGAACATTACCCATCTGACA |
| ex3_5470023_x2 | CM000674.2/92544987-92544892 | 14 | 0.008 | 28.2 | 2 | ATTCTCCAAAGCATGATGATTGGGTTTTCATGCTAATGTGTGAAATGTGCCTCCCTCAAACCTTGTTACGACAAATAAAATTCTCCCCAGGTGATT |
| ex3_5470815_x2 | CM000676.2/35756327-35756463 | 15 | 0.002 | 30.2 | 2 | ATGCATCTACTATGTGACAGACCTGGAGCAGTTCCTGTCTGCTGCTAAGGTTTCCACTACAGATGCAAGAAAAACATGTCCTTGTACTTTCTGTCTTTTTTATTGTGGCAGCCAAGGATGAATAGAGGGATACAGGG |
| ex3_5472635_x2 | ENST00000608459.2 | 17 | 0.0001 | 34.2 | 2 | TTAGAGGTATTTTCAGTACTCTGGCTTAAGAGCCAATGATGTTTTTATTCAAAATGTCTG |

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|---|---|---|---|---|---|---|
| ex3_5476059_x2 | CM000676.2/91715130-91714915 | 14 | 0.008 | 28.2 | 2 | AAAATTATACTTTCAGCAATCATCTCTATAGTTTGTTACTAGAGAAGCTTCTGTGAATGTGTAGAGCACCGGAAACCACAAGGCAAAGGCTCAGCATTCTCTCCTAAGCGCGAAGCTGGCTCCTGGTGTTGGTTGGCCGCAACTGCCATTTGCCATTGATGATCATTCTTCTCTTCCTGTGGTAGAGGAAGAGGGAGAGAATGCAGTTTGAGTGGT |
| ex3_5476323_x2 | CM000682.2/41369714-41369613 | 14 | 0.009 | 28.2 | 2 | AAGACTATACTTTCAGGGATCATTTCTACAGTTCATGACTAGAGAAGTTTCTCTCTGTAGAGCACATTTGGTTGCTGGGATCAGAAACCCATTCAAGCTAGC |
| ex3_5477429_x2 | ENST00000516848.1 | 15 | 0.002 | 30.2 | 2 | CTACAACCAGCTACTGGTTGATCTTACATTTGATCTGGTGTGCAATGGCTGCAAACAGCA |
| ex3_5480513_x2 | CM000663.2/122212271-122211148 | 14 | 0.009 | 28.2 | 2 | CTAGAAAAATTGAAGATTTGGCCACTCTGGAAACTGCTGAGGGCCCCATGTGTAATGGCTGCAAACAGCTTCCTTTGTTGTGTAGACAGCCTGAGTTTTTCTCTAAGGGACTATGGAGACAGCC |
| ex3_5481947_x2 | CM000678.2/12297323-12297197 | 18 | 0.008 | 28.2 | 2 | ATTACTTGAAAATCACTCCCAGGCTTTGGCCATGGCAGCAGGTGAGATTCAAGGCCCAGAGCCTCCAGGGCCTCAGCTCACCGCACACTGCCCCGTGTGTGGTGGGGAAACCCAGACCCCAACAGGT |
| ex3_5483349_x2 | AC020918.6/165518-165651 | 14 | 0.008 | 28.2 | 2 | GGCCUCCUGGUGCUUACAAGCAGCUGUGUGCUUGCAUUGACUGUACAGAAAAAAAGAGAUAGAGUAAACACACCCCGUAUACAACUCAGCCCAGGUCCUGUGCCUUGUCUAUAUUGUGAAUAGGGGGGACAUAG |
| ex3_5484167_x2 | CM000685.2/88148792-88148918 | 14 | 0.008 | 28.2 | 2 | GTTGGTTGTGAATAACCCTTGGCTTTGATTGTGGCTGTGGATGAAATTCAGCACCTACAGCCACCAGTAGCCTTAGCTCACCACCCACTGTCTCAATATCATGGGTAAAACCCAGGCTCTGACAGGC |
| ex3_5484451_x2 | ENST00000364339.1 | 15 | 0.005 | 30.2 | 2 | CAGCCCTAAAATGGAAAAAATTTAAAATTACTTAGACAATGTGATGTCATCAAAGGAACC |

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|---|---|---|---|---|---|---|
| ex3_5485725_x2 | AK024486.1/3319-3428 | 23 | 4E-08 | 46.1 | 2 | UGCCCAGUGAUGACACCAUCCUUGCUCCCCGUGCCCCCCAGGGGCUAUGGGCGACACCAUGGCUGCCCCUGGGCUGGGCCAGUGGGGCCAAUGCCCAGGGGCUGAGGGCA |
| ex3_5486785_x2 | CM000669.2/129061531-129061634 | 15 | 0.005 | 30.2 | 2 | ATTCTTTTGTAGCTGATAAGCATGATGACTGGAGTTTCACGTGCATGTGTGAGATATACCTCCCTCCAACCTTGTTACCACATCTGCACATTACCTGCCTGATG |
| ex3_5486847_x2 | ENST00000365363.2 | 14 | 0.009 | 28.2 | 2 | GAGATTATACTTTCAGGGATCAATTCTATAGTTTGTTACTAGGGAAGTTTCTCTGAATGC |
| ex3_5489479_x2 | CM000684.2/17641519-17641406 | 14 | 0.009 | 28.2 | 2 | ATCCTTTTGCGGTTCATAAAGAACCAAGATGACTGGGTTTCATGCTAATGCATGACATGTGCCTCCCTCAAATCATGTTGCCTCATGGGCTTATTGGCACATTACCGTCTGAGG |
| ex3_5489571_x2 | AC073149.5/38723-38590 | 14 | 0.009 | 28.2 | 2 | UGUUCUGACAUGGGAAGAGUAGCUUCUGGUUGGUGGAGCCCAUCUCACAUUAGCCAGAGACAAAGCAACACCUUGUUUAUCCCGGCUUGGCUUUUGGCCUGUGUCCAUGACUGGUCCAUACCUUGGACACAUGG |
| ex3_5490129_x2 | AC099676.2/79107-79241 | 21 | 5E-07 | 42.1 | 2 | CUGCAGCCAAUUAAGCCGACUGAGUUCCUUUCCUCAUGGGGGCCCAGUGUGCAAUGGCUGUAAAUAGCAGCUUCCUUGGUAGUGUAUGCAGCCUGUUUGUUGUAUGGGUUGCUCUAAGGGACCUUGGAGACAGUC |
| ex3_5490759_x2 | AC090227.10/15587-15444 | 19 | 8E-06 | 38.2 | 2 | CUUUCGGGUCCCCAUUGCAGCCCCCGGAUGAGCCCGCAGUAUUUCCUUAUAUGAUCAGGUCCCAUUGCGGGCGGCGCCGCUUGCCCGGAGCCUGAGAGGAUUAUGAAAACGUGGCGAGCGAAAUGGGGCCAGGGGACCUGGAG |
| ex3_5491107_x2 | ENST00000384436.1 | 21 | 5E-07 | 42.1 | 2 | CCGCAGCCAATTAAGCCGACTGAGTTCCTTTCCTCATGGGGACCCAGTGTGCGATGGCTG |
| ex3_5491125_x2 | ENST00000516131.1 | 27 | 2E-10 | 54 | 2 | GCCAGGTACCATGCAAAAGCAATCTTCCCTTTAGAATGACTGATGGTATGCTAAGGTTTT |
| ex3_5491285_x2 | ENST00000408746.2 | 14 | 0.009 | 28.2 | 2 | AAGACTTTATCCCCCCACCCCGCAAAGAAAAGGAAGAAGAGTTTTTAAATGGCGCAG |

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|---|---|---|---|---|---|---|
| ex3_5491757_x2 | AL132709.5/128363-128289 | 15 | 0.004 | 30.2 | 2 | UGAGCAAGCGAUGACAGCCGGUGGUGUGAGUCAUGGAGGAUGAAUACUAAGUGCCUGGAACUCUGAGGUUCAA |
| ex3_5492699_x2 | CM000680.2/22901626-22901524 | 15 | 0.007 | 30.2 | 2 | GTTCTTTTGTGTTTCATAAAGTAATGATTGTGTTTTCACATTATTGTGTGAGGTGTGCCTCCCTCAGACCTTGATACCAGTCTGCACATTACCTGATGTGAAG |
| ex3_5494789_x2 | CM000686.2/57147965-57147890 | 28 | 6E-11 | 56 | 2 | AAGACTATACTTTCAGGGATTATTTCTATAGTTTGTTAATTATTTGTACTAATAGTAGTAATTGACACTAACTAGT |
| ex3_5495535_x2 | ENST00000364699.1 | 43 | 1E-19 | 85.7 | 2 | TGGACCAATGATGACAAATGGTGGCATTGGAGTTATGGACGATGAATGATATGTGTCTGA |
| ex3_5496043_x2 | AC104763.12/68286-68156 | 15 | 0.003 | 30.2 | 2 | UGCCUCUCUCCCAUGGGCUUUGGGGGGUCCCUGUUCUCCUUAGCCAAGGCUGGAGGCCAAGAGCAGCCCUCGAGGAUCGUCGUCAGGACUGCCACGAGUGGGGCAGCCUUGUUUUCCUGCCUCAGACAUGU |
| ex3_5496437_x2 | CM000669.2/24261714-24261609 | 15 | 0.003 | 30.2 | 2 | ATCCTTTTGTAGTTTGTAAGTGTGATGATTGGGTTTTTTCACGCTCATGTGTGAGATATGCCTTCCTTAAAGTTTGTTACATCATCAGCACATTACCCATCTGACA |
| ex3_5497001_x2 | AC090821.13/147314-147441 | 16 | 0.0009 | 32.2 | 2 | UGCACUUAUGUAUGUUUUUGUUUAAACUGUGGACAAAGACUUAUGGAUAAGUACAAAAAAUAAAUCCUCUUUUGCAACCCAGAACUCAUUGUUCAGUAUGAGUUUUAAUACAUAUAGCCAGGGAAAUU |
| ex3_5498959_x2 | CM000669.2/111109357-111109268 | 14 | 0.009 | 28.2 | 2 | ATGCTTTTGTAGTTCGTAAGCATGATGATTGGGTTTTCTTGCTCTTGTATGAGATGTGCCTCCGTCATACCTTGGAAACCTGACTTGAAA |

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|---|---|---|---|---|---|---|
| ex3_5499153_x2 | ENST00000408528.2 | 14 | 0.009 | 28.2 | 2 | AAGACTCCTTTCAGGAATCATTTCTTTAGTTCCTACTAGAGAGGCTTCTCTTAACATGTG |
| ex3_5500887_x2 | ENST00000408612.1 | 15 | 0.003 | 30.2 | 2 | ACTGGTCCAGGATGAAACCTAATTTGAGTGGACATCCATGGATGAGAAATGCGGATATGG |
| ex3_5501069_x2 | ENST00000362493.1 | 32 | 3E-13 | 63.9 | 2 | AGGCAGGATCTAGTTACATTGTAGCTGTGAAGTGCTGCATTGTCTTTGCCCCCTGCTCAA |
| ex3_5501869_x2 | AB017549.1/452-542 | 18 | 5E-05 | 36.2 | 2 | UGCUGGUGGUGAAGCUCCCUCUCUCCGAGCACUGGGCCCUGCCUGGGGGCUCCCGGGAGCCAGGGGAGAUGCUACCUCGGAAGCUGAAGCG |
| ex3_5502825_x2 | CM000672.2/21485638-21485722 | 15 | 0.004 | 30.2 | 2 | AAGACTGTATTTTCAGAGCTCATTTCTGTAGTTCATTACTATGGAAGTTTCTGTAAATATATAGAGGTCTACAAAACAAAAAAGT |
| ex3_5502989_x2 | CM000674.2/64760973-64760868 | 20 | 0.0008 | 32.2 | 2 | ATCCTTTTGTGGTTCATAAGCCTGATGATTGGGTTTTCATGCTATTGTGTGAGTTACCACCCCTACCTCAAACCTTGTTAGGACTCCGCGCATTACCCCTCTGTGT |
| ex3_5503441_x2 | CM000663.2/153998151-153998067 | 15 | 0.002 | 30.2 | 2 | TTGACTATACTTTCAGGGATCATTTCTATAGTTCATTACTAGAGAAGTTTCTCAGAATGTATAGAGAAAAAAAAGAATCCACAGA |
| ex3_5504457_x2 | AC104794.4/72269-72155 | 14 | 0.008 | 28.2 | 2 | GUGCCUAAGGUUAACACAGCGCCUUAAGAGGCUAACACAGAAGGGCAAAGUAAGUCUCCAUAAAACCCAGAGAAGACUGUGAACCCCUCUCUGGAUCCUGUCUGGAGUCACAGCU |
| ex3_5505425_x2 | ENST00000391322.1 | 15 | 0.003 | 30.2 | 2 | GTGCCCTTTTAAGGTTGACGCAGTGCTTTAAGGGGCTAACACAGAAGGGTAAAGGAAGTC |
| ex3_5505807_x2 | CM000668.2/9211942 | 15 | 0.003 | 30.2 | 2 | AAGGCTATACTTTCAGGAATCATTTCTATAGTTTGTTACAAGAGAAGTTTCTCTGAATGTGTAGAGCACCAGAAACCACGACGAGGACGAGAAGGCACAGCATTCTTTCCTAAATGTGAAGCCAGCTCTTGGTGTTGCTTCAACTGCCACTTGCCATTAATGACAGTTCTTCTT |

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|---|---|---|---|---|---|---|
| | 3-92119633 | | | | | TCCCACTGGGAGAATAAAAAGGAGAGAATGCAGTCCT |
| ex3_5506225_x2 | CM000663.2/90657750-90657964 | 15 | 0.003 | 30.2 | 2 | AAGACTATATTTTCAGGGATCATTTCTACAGTGCACTACTAGAGAAGTTTCTGTGAACTTGTAGAGCACCGGAAACCATGAGCAGGAAGTGCAGCGTTCTCTCCTGAGCATGAAGCCGGCTCTTGGTGTGGCTTCGCTGCAACTGCCATTGGCCATTGATGATCGTTCTTCTCTTCTCTGGGAGAGTAAGAGAGAGAGGACACAGTCTGAGTGGT |
| ex3_5506903_x2 | ENST00000408318.1 | 14 | 0.008 | 28.2 | 2 | GGGGTGTGCTCAGAGCAGGGGGCTGAAGAATGGCTCCTCTGTTTATAACACATGGAACAG |
| ex3_5507449_x2 | ENST00000383910.1 | 20 | 2E-06 | 40.1 | 2 | CTGCAGCCAATTAAGCCGACTGAGTTCCTTTCCTCATGGGGGCCCAGTGTGCAATGGCTG |
| ex3_5508683_x2 | ENST00000459538.1 | 26 | 8E-10 | 52 | 2 | ACCCCTGGCAGCCCCTCCTGATGATTCTTCTTCCTGAGCACGCTCATGATGAGCAAACTG |
| ex3_5508837_x2 | ENST00000581572.1 | 30 | 1E-09 | 52 | 2 | TACTCCAGCCTGGATGACAGAGCCAGACTCTGTCTCGAAAAAAAAAAAAAAAAAAAGCTT |
| ex3_5508845_x2 | CM000671.2/92292593-92292461 | 30 | 4E-12 | 60 | 2 | GCCCTGTGGTTGCTGGATGCTGTTGTGCATGGACAGCTCTCCAGTGGATTCGATGGGCCATAGCAATCCTGTGATTTATGCATGGAGGCTGCTTCTCCTCAGCAGCTGCCATAGCCCGGTCGCTGGTACATGA |
| ex3_5509565_x2 | ENST00000410734.2 | 15 | 0.002 | 30.2 | 2 | AGGACTGTGCTTTCAGAGTTCATGTCCACAGCTCATTGCGGGGGCAGTTTCTCTGATCGT |
| ex3_5509777_x2 | ENST00000408471.1 | 16 | 0.001 | 32.2 | 2 | GGGGTGCACTCAGGGCAGGGGGCTTGAAGAACGGCTCCTCTGTTTACGACACACTCAACA |
| ex3_5512381_x2 | ENST00000362913.1 | 16 | 0.001 | 32.2 | 2 | CCGCAGTGACAGCAATATTTTTCATCCACAGTTCACCTCATGAATGTTGTCACTTTGGGT |
| ex3_5512585_x2 | ENST00000384084.1 | 43 | 1E-19 | 85.7 | 2 | GGTCTCTCAGCTCCGCTTAACCACACGGGTCCAGTGTGTGCTTGGCGTGTTTTCAGGGAG |
| ex3_55 | ENST0 | 14 | 0.008 | 28.2 | 2 | ATTTCATGTTTTAAAGGCATAATGATGTCACTGACTGGCTGATGAAATCCCAAGCGTA |

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|---|---|---|---|---|---|---|
| 12805_x2 | 0000365504.1 | | | | | GG |
| ex3_5513721_x2 | CM000666.2/78640100-78640202 | 15 | 0.005 | 30.2 | 2 | ATCCTTTCATAGTTCATATGCGTGCTGATTGGGGGTTCATGCTCTGGTGTGAGATGTGCTTCCCTCAAGCCTTGTTAAGACATGAGCACATTACCATCTGATA |
| ex3_5515853_x2 | CM000665.2/186786323-186786445 | 34 | 2E-14 | 67.9 | 2 | ATGCAGGTACTGTTACAATACAACTGATGTGTTTTGTTGTCGTTCCCCCTGCTTAAAGCACTTGATGCATAACTCTGTCTACCTTCATTCCGTAGTAAGACAGAGACGCTTGGCTTCAGACAT |
| ex3_5516383_x2 | CM000680.2/31072495-31072607 | 14 | 0.009 | 28.2 | 2 | ATTCTTTTATGGCTTTTATGGTGCATAAGCATGATGATAGGGTTTTTATGCTCATGTGTGAGACACACGTCTCTCAAACCTTATTACGACAACAGTACATTACCTGTATGACT |
| ex3_5516687_x2 | ENST00000365647.1 | 15 | 0.003 | 30.2 | 2 | AGACTCCCAGCTCTGCCCAGTTACACTAGGCTTCGCCTGTGTGGCTTCTGTAATGGGGAG |
| ex3_5518681_x2 | ENST00000517242.1 | 22 | 4E-05 | 36.2 | 2 | ATGCATCTATTTGACAGACCTGGAGCAGTTGCTATCTGCTGCTATGGTTTCCACCACAGA |
| ex3_5518779_x2 | CM000676.2/102789591-102789491 | 14 | 0.008 | 28.2 | 2 | ATCCTTTTGTAGTTCATAAGTGTGATTGGGTATTCAAATGAAGGTGTGAGAGGTGCCACTCTGAAACCTTGTTATGACGTCGGCACATTACCCATATGACA |
| ex3_5518981_x2 | ENST00000578065.1 | 44 | 3E-20 | 87.7 | 2 | TCCTCCTACAAAGGCGTGTCTGTGGTTCCCTGTCTTTGGACATGTAAGAATTGGAGGAAA |
| ex3_5519615_x2 | ENST00000408548.1 | 25 | 4E-09 | 50.1 | 2 | GGGGTGTGCTCAGAGCAGGGGGCCTGAAGAATGGCTCCTCTGTTTACAACACACCCAACA |
| ex3_5519987_ | AC092579.3/1 | 20 | 2E-06 | 40.1 | 2 | UUGCACAGUGAACACCCAAGUGUGCUUUAUAGUUCCCUUGGCUUUGACCCUGUGCUAGAGCAUUCAUUACCUGUUCAUCUGCUCUGCAUUGAAAGGAAUAUUUGUCCUUU |

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|---|---|---|---|---|---|---|---|
| x2 | 14744-114881 | | | | | | UAAAUGUAUUCAGAAAGCCAGCACAUUA |
| ex3_5524439_x2 | ENST00000458938.2 | 15 | 0.002 | 30.2 | 2 | | AAGACTATCCTCTCAGTGATGATTTCTATAGTTCGTTACTAGAGAAGTTTCTCTAAACAT |
| ex3_5524883_x2 | ENST00000364476.2 | 16 | 0.0007 | 32.2 | 2 | | AAGACTATACTTTCAGGGATCATTTCTGTAGTTCATTATTAGAGAGGTCTCTCTGAATGA |
| ex3_5525687_x2 | CM000669.2/99414078-99413978 | 15 | 0.002 | 30.2 | 2 | | ATCCTTTTGTAATTCATGAGTGTGCTTGGGTGTTCACATCCATGTGTGAGACATGCCACTCTCAAACCTTGTCACAACGTTGGCACATTACCCATGTGACA |
| ex3_5525717_x2 | CM000683.2/31664306-31664482 | 14 | 0.008 | 28.2 | 2 | | ACTTTATTGTATATAAGCACTGTGCTAAAATTGCAGGAACTGGGACCATATCCTGATTTTTGTAATAATGCCAGCAGAGTACACACAAGAAAAGTAACTGCACTAGATTGTGAAGACTGGGGTGGACCTGCTTCTGAAGGTCCAGTGCCCTTTGTCTTAAGATTTGGTGTAGTGTGT |
| ex3_5526691_x2 | CM000664.2/69955645-69955747 | 15 | 0.002 | 30.2 | 2 | | ATCCTTTTGTAGCTTGTAAGCGTGATGATTGGATGTTTGCAGGAGCGTGTGTGATGTGCCACCTCGCACCTTGCTACAACATCGGCACAGTAGCTGTGTGACA |
| ex3_5526737_x2 | CM000663.2/30935773-30935688 | 33 | 8E-14 | 65.9 | 2 | | TCTGGCAATGATGACCCACTTGCCCTCACTGAGAACAAAGTTCGGTAATGAGAATCTTTGTTAATGGACTCAAGTTCTGAGCCAGA |
| ex3_5527279_x2 | CM000663.2/136961999-13696070 | 14 | 0.009 | 28.2 | 2 | | AGGACTTGCCTCATTAGTAATACAACCAAGCTGATAGGGTAGTTTGGCAGGACACACAGCCATTTCCCTCTCAGCTTAGGAAGGCTGTCATAAGACTAGGACTAGCTCTGCAAGGCAAGAGAAGGACAAT |
| ex3_5527355_ | CM000678.2/6 | 18 | 8E-05 | 36.2 | 2 | | TAGTGTGGAACTGTCTACTCCTCATTCCTGTGGAAGCAGGAATACATTCATAACATGCTCCATTAAAAAAGGAGTTCTAGGCCAGGCAGCGTGCCTCATGCCTGG |

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|---|---|---|---|---|---|---|
| x2 | 8630968-68630864 | | | | | |
| ex3_5529171_x2 | AC095353.9/75194-75323 | 22 | 4E-05 | 36.2 | 2 | CUUCCCAUUUAUUUGCUGGUAUAGUCUCACAAUGAUAUGGCCAGUUAUACUUAUGGGAAAAAAUAAUAUUGGGCCAUCGUAUAUUGACAUGAGUAACUAUUUUCACCUCUUCUGCAUGGACUAUCUAUAU |
| ex3_5531133_x2 | AC006534.10/104122-104252 | 35 | 5E-15 | 69.9 | 2 | CCCUCCUACAAAGGCAUGUCUAUAGUUCCUUGUCUUUGGACAUGUAAGAAUUGGAGGCAAAGAAAUGUGGACUUGGAGAAAUCUGGGGCCAGCUUGCUCUCCGCAGGCUCAAGAUCAACCAUCCCACAUAG |
| ex3_5534331_x2 | CM000672.2/28408251-28408039 | 14 | 0.009 | 28.2 | 2 | AGGACTGTGCTTTCAGAGTTCATGTCCACAGCTCATTGCGGGGGCAGTTTCTCTGATCGTGTGGAGCTGGATGCCAGGAGCAGGACACACTGTGTTCTTTCCTGAGCATGAAGCCAGCTCTCGGAGTTGTTTTGTTGCACCTGCCATTAGGCGTTGATGATGTTCTTTCTTTCCTCCGGTAGGGTAAGAAGGAGAGGACGCAGTCCAAGTGGT |
| ex3_5534549_x2 | ENST00000384529.1 | 42 | 5E-19 | 83.8 | 2 | GGATCGATGATGACTTCCATATATACATTCCTTGGAAAGCTGAACAAAATGAGTGAAAAC |
| ex3_5534591_x2 | CM000663.2/226316164-226316061 | 14 | 0.008 | 28.2 | 2 | ATCCTTTTGTAGCTCCTGAGCACGATGATTGTGTGTTCATGCTCATGTGTGAGATGTCCCACCCTTGAACCTTGTTACAACATCGGCATATTACCTGTCTGACA |
| ex3_5537033_x2 | ENST00000516069.1 | 14 | 0.008 | 28.2 | 2 | TTATATTAGTGATGGCTTTTAAAGTTCTCACAGACAGGCATCTCTCTGAAAGACAGCGAA |
| ex3_5538623_x2 | CM000677.2/25081287-25081378 | 37 | 4E-16 | 73.8 | 2 | GGATCGATGATGACTTCCATATATACATTCCTTGGAAAGCTGAACAAAATGAGTGAAAACTCTATACCGTCATCCTCGTCAAACTGAGGTCC |
| ex3_5539431_x2 | AC004830.1/58886- | 15 | 0.003 | 30.2 | 2 | CUAUCAAAAGUUACUUUUUGUGGGGUGGAAGUUUUUAAAAUAACCUUUACCUACGUGGGCUGUUUUGGAAAAUAAAGAAAAGACCACACUCAGCAGAGGGCUAUACCCCUUAGUAUAGUUCACCACUAUUUUGCAGCUUAUAUU |

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| | 58743 | | | | | |
| ex3_5539591_x2 | KV880768.1/1215368-1215471 | 16 | 0.001 | 32.2 | 2 | ATCCTTTTGTAATAGATAAGCATAATGATTGGGTTTTTATGTTCACATGTTTGATATGCCTCCCTCAAATCCTCTTATGATGTCGGCACATGACCCATCTGAGG |
| ex3_5539893_x2 | CM000677.2/69458149-69457941 | 14 | 0.008 | 28.2 | 2 | AAGAGTATAATTTCAGGCATCAATTCTGTAGTTCCTTACTAGAGAAGTTTCTCTTAACATGTACAACACTGGAAACCATGAGGAGGTGGCAGCACAGCATTCTCTGCTGAGCGTGAGGTTGGCTCTTGGTGTTGCTTTGCTGCAACTGTCATTTGCCATTGATGATGGTTCTTCTCTTCCTCCGAGGGAGAGAATGCAGTCTGAGTGGG |
| ex3_5539921_x2 | AC055866.19/124993-124866 | 16 | 0.001 | 32.2 | 2 | UGCACUUAUGUAUGUUUUUGUUUAACUUGUGGACAAAGACUUAUGGAUAGGUGCAACAAAUAAAUCCUCUUUUGCAACCCAGAACUCAUUGUUCAGCAUGAGUUUUGAUACAUACAGGAAGGGAUAUU |
| ex3_5540979_x2 | AJ609456.1/1-134 | 22 | 2E-07 | 44.1 | 2 | UGCAUUCUUAAACCCUCUUGGUGGCUUCCCUGUAAAUGCUUCCAAGAUAUGAGCGAAUGCUAUAGAAAUUGCAGGAAAGUCCAAAGGGCUGCGCGUCUCCUGUGGCUCAGUCUUAUUUCAUACCUGCAACAUCU |
| ex3_5541093_x2 | AL161747.5/8490-8387 | 40 | 7E-18 | 79.8 | 2 | CCCCUGUGAUGAGUUGCCAUGCUAAUACGGAGACACCAGGUAGGGAGUUUUACCCUAACUUGGGUGUUGUUGAAAUAAACUCUUUCUCGUAAAUGCUGAGGGGC |
| ex3_5541363_x2 | KN538363.1/221065-221340 | 31 | 1E-12 | 61.9 | 2 | GGTCGATGATGATTGGTAAAAGGTCTGATTGCACTGAATGTCACGGTCCCTTTGTTGCCCTCAACTCCCAGCAGCCCATTTTTTCCCTCCCGTCACATTTAAGTCATGTGTATGGGATCATGGAGCAGCTGATAATTTGGGATTCTGTCAGTGTGTGTTTCTGAGAGTGATCGGCTCACAGCTGACGAGTATCCAACAAAACCAGTTACACAGGAGACTGACGAGTGGCAGTCATGGGTGTGATGGTGCATGATCTCAAGTTTTCAATCTGAGACC |
| ex3_5543385_x2 | CM000667.2/23972294-23972188 | 14 | 0.008 | 28.2 | 2 | AGGTCTTGTGGACAAAGACTTACGGACAGGTGCAAAACATAAATCCTCTTCTGCAACCCAGAACTTATTGTTCAGTATGAGTTTTGATACATGTAAGAAGGGATATT |
| ex3_5544117_x2 | AL132709.5/138673-138602 | 33 | 8E-14 | 65.9 | 2 | UGGAUCGAUGAUGACUACCGGUGGCGUAUGAGUCAUAUGUGAUGAAUACGUGUUUGGAACUCUGAGGUCCAU |

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|---|---|---|---|---|---|---|
| ex3_5544655_x2 | ENST00000517283.1 | 19 | 0.004 | 30.2 | 2 | ACCTTCTTGTTTAAGCTCTGTACTAAAATTGCAGAAACTAGTATCGTGTCTTACCATTTG |
| ex3_5544725_x2 | CM000663.2/26246754-26246847 | 15 | 0.005 | 30.2 | 2 | AAGACTGTATTTTCAGGGATCGTTTCTGTAGTATGTTACTAGAGAAGTTTTTCTGAATGTGTAGAGCACCGTTAAGAAAAAGAAAATAAAATGA |
| ex3_5545405_x2 | CM000664.2/232678963-232679065 | 14 | 0.008 | 28.2 | 2 | ATCCTTTTGCGGTTCATAATGTGATGACTAGGTTTTCATGTCCATGTGTGAAGTGCGCCTTCCTCCAATCCTGTTAAGATGTCAGCACATTTGCCTTCTGACA |
| ex3_5546693_x2 | ENST00000363762.1 | 32 | 3E-13 | 63.9 | 2 | TGGATCAATGATGAGTATGCGTGGGGCATCTGAATCAAATATTCTGATTATACCCTGTCT |
| ex3_5550007_x2 | ENST00000516650.1 | 15 | 0.004 | 30.2 | 2 | CACTCCCCTTTCATTTTACCATTGAGGCTTATGTCTTTATTGGTTGTTCAAGTAGGGCAA |
| ex3_5550331_x2 | CM000667.2/140527428-140527352 | 15 | 0.005 | 30.2 | 2 | GGTCAATGATGAGCTGACATGTATTCTGAATCTAAAGTTGATTATTAGTACTTTAGTTCTAGAATTACTGAGACATG |
| ex3_5551443_x2 | CM000667.2/175450918-175450816 | 14 | 0.009 | 28.2 | 2 | ATCCTTTTGTGGTTCATAAGCATGATGATTGGGTTTTCATGCTTATGTGTGTGATGTGCTGCCTTAAACCTTGTTACAGTGTCAGCACGTCACTCATCTGATG |
| ex3_5551753_x2 | ENST00000364969.1 | 22 | 1E-07 | 44.1 | 2 | TGGACCAATGATGACCACTGGTGGCGTTTGAGTCATGGACGATGAATACTACGTGTCTGA |
| ex3_5552021_x2 | CM000666.2/57106345- | 15 | 0.004 | 30.2 | 2 | ATCCTTTTGTAGTTCATAAGCATGATGATTGAGTGTTCATACACATGTGTGAGGTATGTCGCCCCCAAACCTTTTATGACATTGGCACATTACCTGTCTGACA |

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|---|---|---|---|---|---|---|
| | 57106243 | | | | | |
| ex3_5552237_x2 | AJ311853.1/1-86 | 40 | 7E-18 | 79.8 | 2 | GAUCACGGUGAUGGCUGACCAGGGCUCCCUGACCUAUACAGGCCUCUGCUAUGGGGGUGAUGGCCAGUCCUGGUGUCUGAGUGAUU |
| ex3_5552317_x2 | ENST00000384430.1 | 33 | 8E-14 | 65.9 | 2 | GGATCGATGATGACTTCCATATGTACATTCCTTGGAAAGCTGAACAAAATGAGTGAAAAC |
| ex3_5552569_x2 | CM000677.2/25080142-25080233 | 33 | 8E-14 | 65.9 | 2 | GGATCGATGATGACTTCCATATATACATTCCTTGGAAAGCTGAACAAAATGAGTGAAAACTCTATACCGTCATTCTCGTCGAACTGAGGTCC |
| ex3_5554591_x2 | CM000678.2/29539365-29539262 | 33 | 8E-14 | 65.9 | 2 | ATCCTTTTGTAATACATAAGCATAATGATTGGGTTTTTATGTTCACATGTTTGATATGCCTCCCTCAAATCCTCTTATGATGTCGGCACATGACCCATCTGAAG |
| ex3_5554605_x2 | ENST00000364587.1 | 40 | 7E-18 | 79.8 | 2 | GCACCTGAATCTTTCCCATTCCTTGCTGCCTCGTGCCGGTGTGGGGACAGATGGTGCTAC |
| ex3_5556305_x2 | AL132709.5/139624-139553 | 33 | 8E-14 | 65.9 | 2 | UGGAUCAAUGAUGACCACUGGUGGCGUAUGAGUCAUAUGUGAUGAAUACGUGUCUGGAACUCUGAGGUCCAC |
| ex3_5558303_x2 | ENST00000364021.1 | 18 | 4E-05 | 36.2 | 2 | CAGTCCAGCCTCTGATGAAGCCTATGTTAGTAGGCACATCTGAGTGGTAATGAATGCCAG |
| ex3_5558697_x2 | CM000664.2/70930415-70930303 | 15 | 0.004 | 30.2 | 2 | GTCCTTTTGTAGTTCTTCAGCAGGATGACTGGGTGTTCATGCTCCTATGTGAGATGTGCTTTCCTCAAACCTCAAACCTTGCTGGCAAGCAGTGAGTCAAGGCTGTTCTGAGT |
| ex3_5558713_x2 | CM000667.2/159230194- | 19 | 0.003 | 30.2 | 2 | CTCATACCTAAACCCAAGAATCACTTTCTTATAGTGATGATTTAAACAGATGCAAACAGCGAGCACATCTTGTCACCTTTGCGGGACTGTGGCTGTGCCCCTCGCAGTAAATTTGGAGGTTCTACATCC |

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| | 159230322 | | | | | |
| ex3_5560379_x2 | ENST00000459604.1 | 16 | 0.0008 | 32.2 | 2 | TGTGTATGATGAGATTTCACTTCATGGTCTGTGTTTCTGAAACACATGATGTTGTGGAAG |
| ex3_5561921_x2 | ENST00000365346.2 | 15 | 0.002 | 30.2 | 2 | CTTGCCAGCCCCATAGACACAGTTGCTGTGCTGTGCCTGTACTATTGGAGCAAAGAAAAA |
| ex3_5563101_x2 | AC012119.8/92875-93023 | 15 | 0.006 | 30.2 | 2 | AUCCAAGGGGAUUCCCUCUCCAAGGGAACAUGCAGUGCCCCUCUCAGGAAAGUAACAACCUGGAAUAGAAUCUGGCAUGCCUAAGGUCUUUGAGGAAUAGAGGAAUAGAGGAUGCUUGUUUCCUCUGCCUUCCUUGGCUGCCUACAUGG |
| ex3_5563185_x2 | AJ609474.1/1-132 | 29 | 2E-11 | 58 | 2 | UCCUCCUACAAAGGCGUGUCUGUGGUUCCCUGUCUUUGGACACGUAAGAAUUGGAGGAAAAUAAAUGUGGAUUUGGGAAACUUUGAGGCCAGCUUGCUUCUUGCAGGCUCAUGAUCAACCAAUCUCACAUAA |
| ex3_5563751_x2 | ENST00000620099.1 | 14 | 0.008 | 28.2 | 2 | TTTATCAATGGCATGATTTTAAAGCTGTTTCACCCGAGTACACAGCAGGGAAGCCATCCT |
| ex3_5564073_x2 | ENST00000383922.1 | 21 | 6E-07 | 42.1 | 2 | CTTCCCATTTATTTGCTGCTATAGTCTCATAATGATACAAGCAGTTATATGCATGGGATA |
| ex3_5564109_x2 | ENST00000459299.1 | 20 | 2E-06 | 40.1 | 2 | ATCCTTTTGTAGTTCATGAGCGTGATGATTGGGTGTTCATACGCTTGTGTGAGATGTGCC |
| ex3_5565127_x2 | CM000685.2/94147170-94147234 | 15 | 0.004 | 30.2 | 2 | TAGAAGTGACTGGAGTTGTTGATGGATGGACAGAGACATCGTGCTGATTGCCATGTTCTGATTGA |
| ex3_5565151_x2 | CM000665.2/60856605-60856389 | 17 | 0.0003 | 34.2 | 2 | AAGATTATATTTCCAGGGGTCATTTCTGTGGTTCATTACTTAAAGGAGTTTCCCCAAGTGTGTAGAGCACTGGAAACCACAGGAAGATATGCAATGTTCTCTCCCGAGCACGAAGCTCGTTCTTGGTGTTGCTTCATTGCAACTGCCATTTGCCATTGATCATTGTTTTTTTCTTCCTTTGGGGAGATTAAGAGGAAGAGGACACAGTCTGAGTGAT |
| ex3_5565261_x2 | CM000672.2/87050246- | 20 | 2E-06 | 40.1 | 2 | AAGACTATGCTTTCAGGGATCATTTCTATAGTTCGTTACTCGGGAAGTTTCTCTGAACGTGTAAAGCACCGAACAAA |

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| | 87050322 | | | | | |
| ex3_5565861_x2 | CM000667.2/40790204-40790071 | 14 | 0.009 | 28.2 | 2 | CCTCCTTTTCTTGTCAGGGACTGAGTGTGTGGTCCTGCTCCTGTTATGTATGGAGGCAAAGGGAAAGGGCTCCGGCCCCCTCAAAATCATGTCTTTGGTGCCAGCCGGTTCTGTTCTCAGTCACCTGGATACTG |
| ex3_5565901_x2 | ENST00000364461.1 | 15 | 0.004 | 30.2 | 2 | GGGTCAATGATGAGAACCCTATATTGTGTTGAAGAGAGGTGATGACTTAAAATTACCATG |
| ex3_5566507_x2 | ENST00000408117.2 | 14 | 0.009 | 28.2 | 2 | AAGCTTGTACTCTCAGTGATCATTGCTGTAGTTACGAGATAAGCTTCTCTGAACATGCAG |
| ex3_5567595_x2 | CM000667.2/122796088-122796227 | 15 | 0.003 | 30.2 | 2 | ATTCTTTTGTGGCTCATAAGCTTGGGATTTTCACACTAAACATTTTTAACTCATGAGGTTGGGACTTCACATTAATCTCTAATCTTTGAGATTGCCTCCCTCAAACCTTGCTACAGTATTGGCACATTACCCATCTCACA |
| ex3_5568037_x2 | CM000670.2/28782450-28782539 | 14 | 0.009 | 28.2 | 2 | AAGACTGTACTTTCAGGGATCATTTCTGTTGTTTGCTACTAGAGAAGCTTCTCTGAATGTGTACAGCATGTGGACATGTGTGCACACATG |
| ex3_5568977_x2 | ENST00000391065.2 | 17 | 0.0001 | 34.2 | 2 | AAGACTGTACGTTCCAAGATTGTTTCTATAGTTGGTTGTGAGAGAAGTTTCTCTGAACTT |
| ex3_5569293_x2 | AC016907.6/186868-187000 | 49 | 4E-23 | 97.6 | 2 | GGUCUCUCAGCUCUGCUUAACCACACGGGUCCAGUGUGUGCUUGGCGUGUUUUCAGGGAGGCAGAGAAAGGCUCUCCUAAUGCACGACAGACCCGCCCAGAAUGGCCUCUCUGUUCCUAGGAGUGUGACAAUU |
| ex3_5569531_x2 | CM000669.2/140375666-140375563 | 22 | 1E-07 | 44.1 | 2 | ATTCTTTCGTAGTTCGTAAGCTGGATTATTGAGTATTCACACACGTGTGTGAGATGTGCCACCCTTGAACCTTGTTACAACGTGGGCACATTATTCACTTGACA |
| ex3_55 | ENST0 | 16 | 0.001 | 32.2 | 2 | CTGATTCAACTATGATTTTTATTTGTTTGACTGATTTCCTTTTGGATAATGAAGGTATC |

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| 69977_x2 | 0000459482.1 | | | | | T |
| ex3_5570487_x2 | AC010746.8/140334-140470 | 14 | 0.008 | 28.2 | 2 | CUACCAAAAGUUAAUUUUUUAUGGGGAAGGCUUUCUAAAUAACCUUUACCAAUUUGGGCUAUUUGGGAGAGUAAAGGAAAGACCACACUCCACAGCGGGCUAUACCAAUAGUUCACUACUAUUUGUGGUCUACAUU |
| ex3_5570667_x2 | AC020602.6/136573-136700 | 26 | 1E-09 | 52 | 2 | UGCACUUAUGUAUGUUUUUGUUUAACUUGUGGACAAAGACUUAUGGAUAGGUGCAAAAAAUAAAUCCUCUUUUGCAACCCAGAACUCAUUGUUCAGUAUGAGUUUUGAUACAUAUAAGAAGGGAUAUU |
| ex3_5572471_x2 | ENST00000391153.1 | 16 | 0.001 | 32.2 | 2 | TAGACTTGTGCATGTTTTTGCTTAACTTGTGGATAAAGTCTTACAGACAGGTGCAAAAAA |
| ex3_5573291_x2 | CM000674.2/100402145-100402250 | 15 | 0.003 | 30.2 | 2 | ATCCTTTTGTAGTTCATAAATGTGATAATTGGGTGTTCACGTGCATGTATGAGATGTCTGAGTCCCTCAAACCTTGTTACAACATTGGTACATTACCCATTTTACC |
| ex3_5574901_x2 | CM000667.2/65961319-65961183 | 16 | 0.0008 | 32.2 | 2 | TCACATTTTATCAACCAAATGAATTAGGGAAAAAAGTTCATGCCCAGGGGTGAGACTATAGTGCCAGAACACTTGCTTGTGCATAATTAAGGCCACTTGCCCTCTTCAGGTAGCCCTTTTAACTGGGAGCAAAGTGA |
| ex3_5578639_x2 | ENST00000391191.1 | 14 | 0.009 | 28.2 | 2 | GAGGTACGAGGAAACAGTCTGATAGTCACTGAAGACTGATTAGATCCAACTCTGATCTCA |
| ex3_5578941_x2 | CM000677.2/65571073-65570973 | 19 | 0.004 | 30.2 | 2 | ATCCTTTTATAGCTCATAAGTGTGATAACTGGATTTTCACTCTCCTGTGTGAGATGTGCTTCCCTCAAACCTTGTTACATCAGCACATTACGTGTCTGATT |
| ex3_5579689_x2 | CM000664.2/222698000-222697896 | 18 | 0.008 | 28.2 | 2 | GTCCTTCTGTAGTTCATGAGCGTGAAGATTGGGTGCTCACGGGCACATGTGAAATGTGCCACCCTCTGAACCTTGTTACAACATCGGCACATTACCCATCTGACC |

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|---|---|---|---|---|---|---|
| ex3_5580153_x2 | ENST00000362763.1 | 14 | 0.009 | 28.2 | 2 | ATGCAGGTACTGTTACAATATGACTGAAGTGATTTGTTGTCATTTCCCCTGCTTAAAGCC |
| ex3_5580831_x2 | CM000675.2/95210344-95210448 | 14 | 0.009 | 28.2 | 2 | ATCCTTTTGTAGTTCATGAGCATGATAATCGGGTGTTCACGCACTTGTGTGAGATGTGCCACCCTTGAATTTTGTTATGATGTTTCCACAATAGCCCATCTGACA |
| ex3_5581971_x2 | CM000664.2/185661774-185661906 | 14 | 0.008 | 28.2 | 2 | TTATCAGCTGGGATAATCTTTACCTGTTCCTTCTTTTGGAGGGCAAATTAGGACATGATTGGGGTTCACATAGTATGCGATTAACGTCTCTGAGTAATCAGGACTTCCAGTACCCTGATTGTGCCTATCTGAT |
| ex3_5583081_x2 | ENST00000459452.1 | 15 | 0.004 | 30.2 | 2 | ATCCTTTTGCAGTTCATGAACATGATGATTGGGTGTTCATGCTCATGTGTGAGATGTGCC |
| ex3_5583991_x2 | CM000670.2/70604532-70604637 | 16 | 0.001 | 32.2 | 2 | ACCCTTTTGTAGTTCACAAGTGTGATGATTGGGGTTTCACGCTTATATGTGAGATGTGTCTCTCCCTCAAACTTTGTTCTGACCTGAGCACCTTACCTGTCATAAA |
| ex3_5584183_x2 | ENST00000364773.1 | 31 | 1E-12 | 61.9 | 2 | TTGCATTCTTAAACCCTCTTGGTGGCTTCCCTGTAAATGCTTCCAAGATATGAGCGAATG |
| ex3_5584259_x2 | ENST00000364632.1 | 14 | 0.008 | 28.2 | 2 | ATGTGATGCCTCTGATGAAGCCTATGTTAGTAGAGACATCTGAGAGTGTAGATGAATGCC |
| ex3_5584603_x2 | CM000666.2/168310692-168310795 | 15 | 0.004 | 30.2 | 2 | ATCCTTTTGTAGTTCATAAATGTGATGATTGGGTTTTCATGTGTATGTGTTGGATGTGCCCTACTCAATCCTTGTTACAAAGTTATCTCATTATCCGGCTGGCA |
| ex3_5585011_x2 | ENST00000584451.1 | 20 | 0.001 | 32.2 | 2 | CATGTATAATGATATATTGGTAACACTGCAGACTTGGGGAAGCCAGCCAACCTTGGAGAT |
| ex3_55 | CM000 | 15 | 0.004 | 30.2 | 2 | ATCTTTTGTAGTTCCTAAGTGTGATGATTGGGTGTTCACAGGCATGTGTGAGATGGC |

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|---|---|---|---|---|---|---|
| 85539_x2 | 669.2/95276586-95276684 | | | | | CTCCCTCAAACCTTGTTATGACATTGGCATACCCAAAAAAAA |
| ex3_5585775_x2 | CM000663.2/204727991-204728106 | 19 | 0.002 | 30.2 | 2 | CGCCTTTCTCCCATGGGCTGTGTGGGGTCCCTGTTCTTCGCAGCTAAGGCTGGAGGCCAAGATCAGCCTTTGAGGACTGTCATCAGAATTGCCTTGCTTTCCTGCCTCAGATGTGA |
| ex3_5585805_x2 | CM000664.2/114005655-114005440 | 29 | 4E-09 | 50.1 | 2 | AAGACTGTAGTTTCAGGGATTGTTTCTATAGTTTGCTACTAGAGAAGTTTCTCTGAACGTGTAGAGCCCCGGAAACCCCCGGGTGGTGGTGCAGCATCCTCTCTTGAGGTGAAGCCGGCTTTTGGTGTTGCTTCACTGCAACTACCTTTTGCCATGGATGATTGTCCTTCTCCTCCTCTGGCAGAGGGAGAGGGAGAGGACATAAGTCTGAGTGGT |
| ex3_5588125_x2 | ENST00000384614.1 | 42 | 5E-19 | 83.8 | 2 | TTGCACAGTGAACACCCAAGTGTGCTTTATAGTTCCCTTGGCTTTGACCCTGTGCTAGAG |
| ex3_5588193_x2 | ENST00000384504.1 | 40 | 7E-18 | 79.8 | 2 | TGAGCACTTTCACAGGTCCTCCCTCAGGCTGTGGGGCCAGGATTTGGTAGCTGGTGCTGA |
| ex3_5589545_x2 | ENST00000364172.1 | 28 | 6E-11 | 56 | 2 | CCCTCCTACAAAGGCATGTCTATAATTCCTTGTCTTTGGACATGTAAGAATTGGAGGGAC |
| ex3_5589817_x2 | ENST00000365075.1 | 18 | 0.009 | 28.2 | 2 | CTACAGCCAACTCAGCTGGCTGAGTTCCTCGCCTCATGGGGGACGTGTGCAATGGCTGCA |
| ex3_5592301_x2 | CM000672.2/6017194-6017054 | 14 | 0.009 | 28.2 | 2 | ATGCATCTTAGAACATCCAGGAGACAGTCTTCTAAAATACCAGTGAGTGGCAAGATATGAGTAAATTCCACAGGAAAAGGAAGGCAGTCCAAAGGGCTGTGCTTCTCCTGTGGCTCAGTGTTATTCATAGCTGTGACATCT |
| ex3_5593299_x2 | AL132709.5/164433-164362 | 21 | 6E-07 | 42.1 | 2 | UGGAUCAAUGAUGUCCACUGGUGGCGUAUAAAUCAUAUUUGGUGAAUAUAUGUCUGGAACUCUGAGGUCCAA |
| ex3_55 | AB007 | 22 | 1E-07 | 44.1 | 2 | GGUCUCUCAGCUCCGCUUAACCACACGGGUCCAGUGUGUGCUUGGCGUGUUUUC |

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|---|---|---|---|---|---|---|
| 93959_x2 | 147.1/104-236 | | | | | AGGGAGGCAGAGAAAGGCUCUCCUAAUGNACGACAGACCCGCCCAGAAUGGCCUCUCUGUUCCUAGGAGUGCGACAAUU |
| ex3_5594171_x2 | ENST00000578183.1 | 16 | 0.001 | 32.2 | 2 | AACATAGAGTACACATTTTCTGTTTTGTTTAAGAATTATTCTCTTGCAGACCTATGTTTT |
| ex3_5595249_x2 | ENST00000517176.1 | 15 | 0.005 | 30.2 | 2 | AGCGCTGACTCCCACATATGCATTCCTTAGAAAGCTGAACAAAATGAGCAAAAAACCTCT |
| ex3_5595413_x2 | CM000685.2/113944404-113944186 | 15 | 0.002 | 30.2 | 2 | TTGTGAAGACTATTTTCAAGGTTCATTTCTATAGTTCACTACTGGAGAAGTTTCTCTGAACATGTGGAACACCAGGAAACATGAGGAAGAAGCACAGCATTCTCTCCTAAATGTGAAGCCAGCTGTTGGTGTTGCTTTGCTATAACTGCTATTTGCCATTGATGATTATTTTCCTCTTCTTCCCAGAGAGTAAGAGGGAGAGGATGCAGTCTGTGTGGT |
| ex3_5596869_x2 | ENST00000458974.1 | 20 | 2E-06 | 40.1 | 2 | TGGACCAATGATGAGACAGTGTTTATGAACAAAAGATCATGATTAATCCAGTTCTGCACA |
| ex3_5597019_x2 | ENST00000364674.1 | 14 | 0.008 | 28.2 | 2 | TATGGCCTTTATCAAAGCTGCAGCTGCTTCCATGTAGCTGCTGTGGTCAAAAAGAAGCCA |
| ex3_5597945_x2 | CM000677.2/42708792-42708692 | 15 | 0.003 | 30.2 | 2 | ATCCTTTTGTAGTTCGTAAGCATGACGATCGGGTTTTCACATACATGTCTCAGAAGTGCCTCTCTCAAACCTTGTTACGTCAGCACATTACCTGTCTTACA |
| ex3_5598321_x2 | CM000663.2/115622005-115621872 | 15 | 0.002 | 30.2 | 2 | GCATGGTAGTGGGTTCATTGGGGGCCCTTCTCTGTGGGCCTCATAGCGTACCCATGCCAGTGTAAACTTGAGCCTTGAACCATTGCCCAGCCTCCTTCCCATGGGCTGTGTGTAGCGAAGGGGGTTGCACAGTG |
| ex3_5598585_x2 | AC137590.2/61748-61613 | 28 | 6E-11 | 56 | 2 | CUUCCUCAGCCUUACUCCAGGGACUUUUUGUUGCCUGUAAAGUGCUCUGGCAUUGCCUGAGGAUAGAUGAGAAAGCACAUAUCCCUCCCCAGUAAGACGCUGUUUUCUUUUGGGGCCUACAAGUUGAGCUGACAGU |
| ex3_5598679_x2 | CM000663.2/163923670- | 14 | 0.008 | 28.2 | 2 | AAGACTATTCTTTCAGGGATCATTATGCGAGAAGTTTTTCTGAATGCCTAAAGAACCAGAAAACCATGAGGACAGACAGCAGCATTTTCTCCTGAGCTTGAAGCTGGCTCTTGGCACTGGTTTGCTGCAACTGCCGTTTGCCATTGCTGATCATTTTTCTCTTCCTTTGGGAGAGTGAGGGGAAGAGAATGCAATCTGAGTGAT |

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|---|---|---|---|---|---|---|
| | 163923873 | | | | | |
| ex3_5599201_x2 | ENST00000408706.2 | 14 | 0.008 | 28.2 | 2 | AAGACTGTATTTTCAGGGATCATGTCTATAGGTCATTTCTAGAGAAGCTTCTCTGAACAT |
| ex3_5599781_x2 | AC096587.1/25864-25727 | 18 | 0.009 | 28.2 | 2 | GCUAUCCUGGACUUGCCAGCCCCAUAGACACAGUUGCUGUGCUGUGCCUGUACUAUUGGAGCAAAGAAAAAGUGGCUAUUUCUAUGCUCAGUGUUCACAAACCAGUGAGCACUAAGAAUGGUUUAUAGCCUGACAUUU |
| ex3_5599791_x2 | CM000677.2/39015811-39015901 | 15 | 0.003 | 30.2 | 2 | AAGACTATACTTTCAGGGATCATTTCTATAGTTTGTTTCTAGAGAAGTTTCTCCGAATGTGTAGAGCACTGCTTAATCTTTTAAATTTAGA |
| ex3_5599849_x2 | CM000681.2/55167171-55167274 | 15 | 0.002 | 30.2 | 2 | ATCCTTTTGTAGTTTCTAAGCGGGATGATTGGGTGTTCACGCGCATGCGTGAGATGTGCCTCCCTCAAACCTTGTTACGACATCGGCACATTACTCTTCTGACA |
| ex3_5600125_x2 | ENST00000362945.2 | 18 | 0.009 | 28.2 | 2 | CCTGCCAGCTGCACAGATGCAGATGCTCTGCTATGCCTGTAACATCGGGGCGAAGTGAAA |
| ex3_5601945_x2 | ENST00000364617.1 | 26 | 8E-10 | 52 | 2 | GGTCAATGATGTAATGGCATGTATTAGCTGAATCTAAAGTTGATGTGAGTTCTAAAATTA |
| ex3_5602709_x2 | AC015982.9/45601-45748 | 19 | 0.003 | 30.2 | 2 | GGUUGUGGUGGUUUUCUUUCUGGUACAUUUGUUAAGUUUUCAAAUGAGCCUAACUCUGCCACAUAUAUCAUAUAGGAGCUGGCAAAGGCUUGAUGACAAAGAGAUCUCUCUCAAGCCUUUCCCACAUCAGAGGCUGGCUUUCACACAC |
| ex3_5602851_x2 | CM000677.2/69325420-69325293 | 14 | 0.009 | 28.2 | 2 | GCAGACTCACTGTGCACCTGGCTGCAGGCCCAGGTGGGTGCTCGTTCCCTCTGCAAGAGAAACAAACATTCCAGGGTGCTGTGGCTGCCTGACCTATAAGGGCGATGCAGCTGCCTGGGGATAGACAG |
| ex3_5603237_x2 | CM000664.2/4827155 | 18 | 4E-05 | 36.2 | 2 | CTGCATCCACTGATAGACCTTGGACAGTTTGCTGTTTTTTTTTGTTTGTTTGTTTGTTTGTTTGTTTTTGTTTGCTCTGGGGATGCAAAAGAGGGAAATCCCTGCACTTCCTCTCTGTCTTTGTGGCAGCCGGGATTGAATTGGGGAATGCATCT |

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|---|---|---|---|---|---|---|
| | -4827001 | | | | | |
| ex3_5603525_x2 | CM000663.2/179201487-179201627 | 15 | 0.002 | 30.2 | 2 | ATCCAAGGTGATTCCCTCTCCAAGGGGAACATCCAGTGCCCCTCTCAGGAAAGTAGCAACCTGGAACAGAATCTGGCATGCCTAAGGCATTTGGGGAACAGGGCTGGTTATTTCCTCTGCCTTCCTTGGCTGCCTACATGG |
| ex3_5603993_x2 | ENST00000364523.1 | 15 | 0.007 | 30.2 | 2 | CCCTATATTCGAAAGTTATCCTGGTCATTGACAGTGCAGGGAGAGAAACTGCTGAAAGCA |
| ex3_5605161_x2 | AC007240.2/163812-163679 | 25 | 3E-09 | 50.1 | 2 | GGCCUCCUGGUACUUACCCACAGGCUGCGUUCUUACACUGGCUGUACAGAAAGAGGAGCUAGAGUAAACCUACCUAAUAUACACCUCAGCCCAGGCCCUGUGCCUGGUCUGUAUUGUGAAUGGGGGGGACAUAG |
| ex3_5606081_x2 | AC090233.16/1998-1865 | 15 | 0.002 | 30.2 | 2 | UCAUCAGGUGGGAUAAUCCUUACCUGUUCCUCGUUUUGGAGGGCAGAUAGAACAGGAUAAUUGGAGUUUGCAUGAUCCAUGAUUAAUGUCUCUGUGUAAUCAGGACUUGCAAACUCUGAUUGUUCAUAUCUGAU |
| ex3_5606365_x2 | CM000665.2/64072019-64071807 | 19 | 0.006 | 30.2 | 2 | AAGATTATACTTTCAGGAATCATTTCTATAGTTTGTTACTAGAGAAAGTTCTCTGAATGTGTAAAGCATGAAAAACCACAAGGAGACACAGTGTCTGCTCCTGACTGAAAAGCCAGCTCTTGGTGTTGCTCTGCTGCAACTGCTATTTGCCATTGATAACCATTCTTCTCTTCCTCTGGGATAGTAAGAGGGAGAGACTGCAGTCTGAGTGGT |
| ex3_5607659_x2 | CM000673.2/12904988-12904817 | 15 | 0.002 | 30.2 | 2 | TTGATCACAGGACCCCTTTACACTCGTAAATAAATTATTGATGTACCAGACAGCCTGACCCTGACCTCAAGTAAATTCCCAGGAGACGCCTTTCCTGGGTTTTGAATTTGCCGTAACAGGTGTGAGCATTCTAGCAGCAGTTTGGTGATCATGTACGATACTGCAAACAGGA |
| ex3_5609065_x2 | AL132709.5/140595-140524 | 29 | 2E-11 | 58 | 2 | UGGAUCGAUGAUGACUACUGGUGGCGUAUGAGUCAUCUACAGUGAAUACGUCUCUGGAACUCUGAGGUCUGU |
| ex3_5609219_x2 | ENST00000517250.1 | 16 | 0.0009 | 32.2 | 2 | ATGCATCTACTATGTGACAGACCTGGAGCAGTTCCTGTCTGCTGCTAAGGTTTCCACTAC |
| ex3_56 | CM000 | 14 | 0.008 | 28.2 | 2 | ATACTTTTGTAGCTCATAAGCATGATGATTCAGTGTCCAAGTGCATGCATGAGATGTG |

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|---|---|---|---|---|---|---|
| 09411_x2 | 664.2/218185082-218184979 | | | | | CCTCCCTCAAACCTTGTCACAACATCAGCACGTTGCTCATCTGACA |
| ex3_5610151_x2 | BK005567.1/29-108 | 47 | 6E-22 | 93.7 | 2 | GAUCAAUGAUGAAACUAGCCAAAUCUGAGCAUCAGAAGUCUUUCCAGUCUACCUGAUGCAUGAUCUCUACAGUUCUGAGA |
| ex3_5610999_x2 | CM000679.2/50245004-50244896 | 16 | 0.001 | 32.2 | 2 | ATTCTTTTGCTGTTCGTAAGCATAAGGATCAGGTATTCATGGTCATGTGTAAGACGTGCCTCCCTCCAACCTTGTTACGATGTGGACGTCAGCACATACCCATTTGATG |
| ex3_5611493_x2 | CM000669.2/25264656-25264882 | 14 | 0.009 | 28.2 | 2 | GAGATTATACTTTCAGGGATCAATTCTATAGTTTGTTACTAGGGAAGTTTCTCTGAATGCGTACAGACCTGCAGAAGAGCAGCAGAACCCATGAGGAGAAGGCGCAGGATGATCCTGAGCATGAAGCTGGCTCATGGAGTTGCTTTGCTGCTACTGTCACTTGCCATTGATGATCGTTCTTCTCTTCCTTTGGGAGAGGAAGAGGGGGAGAAAGCAGTTGGAGTGGT |
| ex3_5614629_x2 | CM000670.2/22032350-22032452 | 15 | 0.004 | 30.2 | 2 | AGGCTCTTGTCATTTATAAGTGTGATGATTGGGGTTTCACGCTCGTGTGTAAGGTGTGCCTCCCACAAACCTGGTTACGAGTTGGCACATCACCTGTCTGATG |
| ex3_5615069_x2 | CM000672.2/119061111-119060983 | 17 | 0.0003 | 34.2 | 2 | GTGCACATTTCATTGTCTTTTTTCTTTATTTCAAGAGAAAAGATATATCTGATGTGCTCAGCAAACCTTTGGAGGTTAATTAGCAGCATGACTAATTTAGCCATTGCTGCCAGTCACCTTCAAACAAGT |
| ex3_5616101_x2 | CM000663.2/205731352-205731221 | 15 | 0.002 | 30.2 | 2 | CTGCAGATATTCTCACTGTTTTGATTTTGTAATAGTCAGGACAGGCTAACCATTCACTTTATTAAGACCATGCATATATCCCCAGAACTAGTTCTTTCCTGAGGTCTAGTTTTATAAATGTTGCTGATAAAC |
| ex3_5616697_ | CM000680.2/2 | 15 | 0.002 | 30.2 | 2 | AAGACTATACTTTCAGGGATCATTTCTATAGTTCTTTACTAGAGAAGTTTCTCTGAACATGTAGAGCACTGTGCCTTAAAAAAGAAAAAAAAAAGGGC |

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|---|---|---|---|---|---|---|
| x2 | 6299255-26299158 | | | | | |
| ex3_5617237_x2 | AL132709.5/154547-154476 | 14 | 0.008 | 28.2 | 2 | AAGAUCAAUGAUGACUACUGUUAGUGUAUGAGUUACACAUGAUGAAUACAUGUCUGAAACUCUGAGGUCCAU |
| ex3_5618115_x2 | ENST00000390947.2 | 14 | 0.008 | 28.2 | 2 | CCCAAAGTGCTGGGATAACCCTTACCTGTTTCTCCTTTGCAGGGCAGATAGAACATGATA |
| ex3_5618367_x2 | CM000669.2/99952033-99952158 | 15 | 0.005 | 30.2 | 2 | AGTTCCTTGGAAGTTAAAGGTTAAGCTTAAGGACTGATTCAAAGGCAGGTGCAAAAAATAAACCCTCTTTTGTAACCCAGAACTCATTTTTCAGTATGAGTTTTGATACATATAAGAAGGAAAGCT |
| ex3_5618663_x2 | ENST00000362566.1 | 15 | 0.005 | 30.2 | 2 | CCCCTGTGATGAGTTGCCATGCTAATACGGAGACACCAGGTAGGGAGTTTTACCCTAACT |
| ex3_5619971_x2 | CM000674.2/48960836-48960738 | 14 | 0.008 | 28.2 | 2 | ATCCTTTTGTAGTTCATAAGCATAATGACTGGGTGCTTACACACATGTGAGATGTGCCACCCTCAAACCTTGTTACATTGGCACACTATCCATTTGACA |
| ex3_5620705_x2 | ENST00000384492.1 | 15 | 0.007 | 30.2 | 2 | CTGCAACCAATTAAGCCGACCTAGTTCCTTTCCTCTTTGGGGCCTGGTGTTCAATAGCTG |
| ex3_5623903_x2 | AL132709.5/149496-149422 | 21 | 5E-07 | 42.1 | 2 | UGGACCAAUGAUGACAACUGCCGGCGUAUGAGUGUUGGGUGAUGAAUAAUACGUGUCUAGAACUCUGAGGUCCAA |
| ex3_5624363_x2 | ENST00000363365.1 | 15 | 0.002 | 30.2 | 2 | AAACCCCTGTTCACTTTGCCAAATGGATTTGTGTCTTTATTGCTCATTAATTGGGGCAAA |
| ex3_5624625_x2 | CM000663.2/218541899- | 19 | 0.004 | 30.2 | 2 | AAGACTATACTTTCAGGGATTATTTCAGATAAACTTCTAGAGTTTCTCTGAACCTGTAGAGCACCAGAAACCATGAAAAGAGGGTGTAGCATTCTCTCCTGCGTGTGAGGCCGGCTCTTGGTGCTACCTCACTGAAACTGCCATTGCCACGGATGATCATTCTTCTCTTACTCTGAGAGAGAAAGAGAGAGAGAATACAGTCTGAGTGGT |

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|  | 218541690 |  |  |  |  |  |
| ex3_5624929_x2 | CM000670.2/20614926-20614833 | 19 | 2E-05 | 38.2 | 2 | AAGACTATACTTTCAGGGATCATTCCTATAGTTCATCATTAGAGAAGTTCTCTGAACATGTAGAGCACCGAGACAAGAAATAACTAAGATCAGA |
| ex3_5624931_x2 | ENST00000459407.1 | 14 | 0.009 | 28.2 | 2 | ATCCTTTTGTAGTTCATAAGCATGATGATTGGGTTTTCATGCTTGTGTGTGAGATGTGCT |
| ex3_5626035_x2 | ENST00000391318.1 | 17 | 0.0002 | 34.2 | 2 | GACTTCTCACTGAGCTTCTTTCTGTCTGTTGCTGGCAGCTTATGGATTCATATGAGCAGA |
| ex3_5627255_x2 | ENST00000363786.1 | 16 | 0.0006 | 32.2 | 2 | GGCAGCCATGTCAAATTCAGTGCCTGCCCTGTCTATGGTAGGCACTGGCCCAGAAGACTG |
| ex3_5628329_x2 | ENST00000365413.1 | 14 | 0.009 | 28.2 | 2 | AAGCTAGCCAATGAATCTGCTTACCTAAACATGTTTCTGCAGAAATTTTTATTTTAAAAA |
| ex3_5628449_x2 | CM000664.2/27642169-27642043 | 14 | 0.008 | 28.2 | 2 | TTCTAAAGTGTTGAGTTCAGTCCAGGGTGGATCCCCTGCTCTGTTAATTGAACTGGAACATTTAAACTGGCTAGGCAAAATGCCTACATAGAAAGCATTACTCTTTATTCATCCCCAGCCTACAAAA |
| ex3_5630971_x2 | CM000663.2/52411442-52411522 | 19 | 0.006 | 30.2 | 2 | ATCCTTTTGTAGTTCAGGTGCATGTGTGAGTTGTGCCTCCCTCAAACCTTGTTACAAAGTCAGCACATTACCTGTCTATCA |
| ex3_5632199_x1 | CM000665.2/47088608-47088747 | 15 | 0.002 | 30.2 | 1 | ATCCTTTATGGTTCATAAATATGATGAATGGGTTTTCACGCTGCTGTGTGAGATATATCTCCTTCAAACTTATATAATTTATATGTTATAATATATAATGACCTTTTTATGATGTCAGCATATGAATGACCCAGCTGATA |
| ex3_5632364_ | CM000683.2/2 | 15 | 0.005 | 30.2 | 1 | AAGACGACGCTTGCAGGGATTGTTTCTATAGCTCACTACCAGATAAGTTTCTCCGAACATGTAGAGCACCAGAAACCACATGCAGCGGTGCAGCGCTCTCTCGGGAGCCTGAC |

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|---|---|---|---|---|---|---|
| x1 | 9180639-29180425 | | | | | ACTGGCTCTGGGTGCTGCTTCACTGCAACTTCCATTTGCCATTGAGAACTGTTCCGCTCTTCCTCTGGGAAAGTAAGAGAGAGAGGGTGCAATCTGAGGGGT |
| ex3_5632445_x1 | ENST00000516158.1 | 15 | 0.004 | 30.2 | 1 | ATATAGTTGGACTCAACACCTCTCTATCAGAAATGGACAGATCCAGATCATGAAGAGATT |
| ex3_5632719_x1 | CM000685.2/71440644-71440517 | 14 | 0.009 | 28.2 | 1 | ATCTTTTTGTAGTTCATAAGCTTATGATGACGTAAGTGTGACGACATTGGGTTTTCACGTTCATGTGTGAGATGTGCCTCCCTCAAGCCTTATTACAATGCCAGTACATTTTTTTTCCACATCTGATG |
| ex3_5632950_x1 | ENST00000516349.1 | 14 | 0.008 | 28.2 | 1 | TTGTGGGTATAACATTCACTATATTAAGATCATGCATGTGCCCCCAAACCTAATTCTTTT |
| ex3_5633117_x1 | ENST00000362361.1 | 14 | 0.008 | 28.2 | 1 | GATCGATGATGAAAATAAGCAAGTTTGAGCATCAGAAGACCTTCCAGTCTACTTGATGCA |
| ex3_5633832_x1 | AC079969.5/116696-116565 | 14 | 0.008 | 28.2 | 1 | GUUGAGGUCUAUCCCGAUAGGUCUUUUCCUGUAGCCUGCACGUUGUUGGAAAUGCCUCAUAGAGUAACUCUGUGAUUUUACUUUACUUACAGGACUAUUGUUACAUCUGUGGGAAGGAACCACAAGACAGUU |
| ex3_5634785_x1 | CM000677.2/75121666-75121536 | 14 | 0.009 | 28.2 | 1 | AACCAATTGTGCCAGTGGGGCTATGGGTGGCCCCTTTTCTCCTCAGTCAGGGCTGGAGGCCAAGATCAGCCTTTGAGGATTATCAGGGCTGCCACAAGCTGGGCAGCCTTGTTTTCCTACCTCAGACATTT |
| ex3_5634821_x1 | ENST00000625269.1 | 15 | 0.002 | 30.2 | 1 | TCCTGGCTTTAATTTATATGCCTTTTTCAAATTCTGACTGGTTGCATGATGAATAAAATC |
| ex3_5635606_x1 | CM000665.2/30304536-30304321 | 14 | 0.009 | 28.2 | 1 | AAGACTATACTTTGAGGGATCATTTCTATAGTTTGTTACTGGAGAAGTTTCTCTGAATATGTAGAGCACCACAAATCACGAGGAAAAAGCGCAGCATTCTCTCCTGAGCATGAAGCCAGTTTTCAGTGTTGCTTCGATGTAACTGCCTTCTGCCCTTGATGATCATTCTTCTCTCCTCCCTGGAGAGTAAGAGGGAGAGGAGGCAGTCTGAGTGGT |
| ex3_5635796_ | ENST0000036 | 19 | 2E-05 | 38.2 | 1 | AAGACTATACTTTCAGGGATCATTTCTATAGTTCATTACTAGAGAAGTTTCTCTGAATGG |

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|---|---|---|---|---|---|---|
| x1 | 2986.2 |  |  |  |  |  |
| ex3_5635887_x1 | AK096147.1/2233-2308 | 24 | 1E-08 | 48.1 | 1 | GCUGUACAUGAUGACAACUGGCUCCCUCUACUGAACUGCCAUGAGGAAACUGCCAUGUCACCCUUCUGACUACAGC |
| ex3_5635905_x1 | ENST00000384442.1 | 15 | 0.002 | 30.2 | 1 | GGCTTGCTGGTGCTTACCACAGGCTGAATTCTTACACTGACTATATAGAAAAGGAGGTAG |
| ex3_5636645_x1 | ENST00000408876.1 | 20 | 3E-06 | 40.1 | 1 | TGCCCAGTGATGACACCATCCTTGCTCCCCGTGCCCCCCAGGGGCTATGGGCGACACCAT |
| ex3_5636980_x1 | CM000666.2/1118884-1119013 | 14 | 0.009 | 28.2 | 1 | TGTCCTTGGCCTGGGTAGAGTGGCACCTAGTTGGTGGTGCCCATATTAGCCAGGGACAAAGCAACCCTTTGTTCATCCCAGCTTGGCTTTTGATCTGTACCTATACCTGGTTCATGCCTTAGACACATGG |
| ex3_5637670_x1 | CM000673.2/62854285-62854161 | 15 | 0.003 | 30.2 | 1 | CTCCAATGAGGAGGAAACATCCTGCCTTACCCCTGTTTTAGCCTGGGAACCAGTAATTGTGAACTCACCAGGGTTAACATGAAGAGGGCATGAGAGCTTATTCCATAAGGAATTGTCTGAGACAT |
| ex3_5637908_x1 | ENST00000365080.1 | 32 | 3E-13 | 63.9 | 1 | TGGATCAATGATGAGTACCCTGGGGTGTCTGAATCTTGGATTTTGATTAAACCCTATAAC |
| ex3_5638053_x1 | ENST00000516035.1 | 19 | 0.007 | 30.2 | 1 | TTTCTATTTTATCTGATTCTTCCTCTATGCACAAACTCAGCTTCAGTCATTAGTATCATT |
| ex3_5638182_x1 | ADDF01133894.1/3988-3917 | 14 | 0.009 | 28.2 | 1 | UGGGCAUGUGAUGUGACCUUCCUGAGCCUGCAUUCCCUCACCUGGAAAUGAUGAGCAGUUACUGAUGCCACA |
| ex3_5638337_x1 | CM000685.2/20136135-20136066 | 33 | 8E-14 | 65.9 | 1 | GGGCAATGATGTAAAGGTTTTACGACTGACCTTTGTAACTATGAAGTTTTCTACACTTGACCTGAGCTCA |

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|---|---|---|---|---|---|---|
| ex3_5638690_x1 | ENST00000517184.1 | 15 | 0.003 | 30.2 | 1 | TGGTTTAAAGCCAACTCTGGGCTCCCATCAGAAGGAAGGAGATGAATGCTATGACCAAAG |
| ex3_5639905_x1 | ENST00000516792.1 | 16 | 0.0005 | 32.2 | 1 | GAGGAGGTCCATTTTAAAAAAGAATAGATTGGAAATGCCTCATAGAGTAACTCTGTGGTT |
| ex3_5640134_x1 | CM000682.2/16983033-16982831 | 14 | 0.009 | 28.2 | 1 | AAGATTATATTTTCAGGGATCATTTCTATAGTTTGTCACTAGGGAAGTTCCTCTGAATGTGTAGAGCACCAGAAACATGAGGAAGAGGCACAGGGTTCTCTCCTGAGTGTGAAGCTGGCTCTTGGCGCTGCTTTCCTGCAACTGCTATTTGCCATTCGTGATTGTGGAGAGTCAGAGGGAGAGGATGATGCAGTCTGAGTGGT |
| ex3_5640464_x1 | ENST00000364977.1 | 19 | 1E-05 | 38.2 | 1 | ACCACCAGTGATGAGTTGAATACTGCCCCAGTCTGATCAACATGCGTGAAAGATATTTTC |
| ex3_5641320_x1 | CM000682.2/38448084-38448215 | 14 | 0.009 | 28.2 | 1 | GCCTGCATTCGTAAGTGATCACGGGCTGCCCGTGTCCTGGTCATTGGTAGTGCAGGCAGAGGAAATGCGGGAAAGGTTGCTGTGTTTGGAGGGTCCACATCTTCACCCTCCTGTCCCAGGAGCTTTCCTACA |
| ex3_5641715_x1 | CM000682.2/5121539-5121417 | 15 | 0.003 | 30.2 | 1 | GTTCCCTTTTAAGGCTGACCCAGTGCTTTAAGAGGCTGATACAGAAGGGTAAAGTTAAGTCTCCACAAAATCCAGGGAAGAGACTGTGAAACTCATCTTAGAACCTTGTATGGAGTCACAGCT |
| ex3_5642085_x1 | CM000685.2/20136385-20136306 | 23 | 4E-08 | 46.1 | 1 | GATCAATGATGAAACTAGCCAAATCTGAGCATCAGAAGGCTTTCCGGTCTACCTGATGCATGATCTCTACAGTTCTGAGA |
| ex3_5642446_x1 | AC034186.5/119166-119029 | 14 | 0.008 | 28.2 | 1 | GCUGUCCUGGACCUGCCAGCUGCACAGAUGCAGAUGCUCUGCUAUGCCUGUAACAUCGGGGCGAAGUGAAAGUGGCUAUUUCUACACUCAGUGUUCAGAAAACACUGAACAACAAGAAUGGAUAAUAGCCUGACAUUU |
| ex3_5642701_x1 | ENST00000517111.1 | 14 | 0.008 | 28.2 | 1 | ATGCATCTATCTGACATGCCTGGAGCAGGTATTGTCTGCTGCTAAAGTTTCCACCACAGA |

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|---|---|---|---|---|---|---|
| ex3_5643282_x1 | CM000674.2/103721044-103720942 | 14 | 0.009 | 28.2 | 1 | ATCCTTTTGTGGTTCATTAGCTTGATATTGGGTTTTCACACTATTCTATGAGATGTGCCTCCCTCAAAACTTGTTACAACATTGACACATTACCCTTCTGATG |
| ex3_5643384_x1 | CM000685.2/47475609-47475780 | 14 | 0.009 | 28.2 | 1 | GGCCTCCTGGTGCTTACCACAGGCTGTGTTCTTACACTGACTGTATAGAAAAAGAAGTGGGCCTGCCTTCTCTGTTCTTGTACTGACTGTATAGAAAGAGAAGAGCTCCTACCCTATATACACCTCTGCCCAGGCTCTAGTCCTGGTCTGAATTGTGAATGGAGGGACATGG |
| ex3_5643477_x1 | ENST00000384458.1 | 15 | 0.006 | 30.2 | 1 | GGTCTCTCAGCTCTGCTTAACCACACGGGTCCAGTGTGTGCTTGGCGTGTTTTCAGGGAG |
| ex3_5644189_x1 | AC005995.3/26676-26542 | 33 | 8E-14 | 65.9 | 1 | GCAUGGGUUUGGAUUAUGACAGGCCCAUCCCCCUGGACCUCUCAUAGUGCCCCAUGCCAGAGCAAACUGUGGCCCCGAACCAUUGCCUGGCUUCUGUACCCGUGGGCCACUGGCACUGAAGAGGGUUACACAGUG |
| ex3_5645549_x1 | CM000663.2/193057415-193057281 | 14 | 0.009 | 28.2 | 1 | TTGCATGTGGTAATGTCTGCTCTTCATTCCTTTGGGAGCAGAAATACATCCATAACACGCTAAATTAAAAAAGGAGTTCTCAGGGCTGCCAACCTTACAGTAGAGGTTGAGTGGTAGTATATTACTCCTACATAA |
| ex3_5645900_x1 | ENST00000363660.1 | 17 | 0.0001 | 34.2 | 1 | GGCAGATGATGTTTGTTTTCACGATGGTCTTCAGATGCCCACGTGGGCACTGCTGAGAAA |
| ex3_5646734_x1 | ENST00000364079.1 | 19 | 0.006 | 30.2 | 1 | GGGTCAATGATGAGAACCTGATATTGCCCTGAAGAGAGATGATGACTTAAAAATCATGTT |
| ex3_5646981_x1 | ENST00000411292.1 | 33 | 8E-14 | 65.9 | 1 | TGTGTGTTGGAGGATGAAAGTACGGAGTGATCCATCGGCTAAGTGTCTTGTCACAATGCT |
| ex3_5648029_x1 | AJ609476.1/1-135 | 15 | 0.002 | 30.2 | 1 | CUUCCUCAGCCUUACUCCAGGGACUUUUGUUGCCUGUAAAGUGCUCUGGCAUUGCCUGAGGAUAGAUGAGAAAGCACAUAUCCCUCCCCAGUAAGACGCUGUUUUCUUUUGGGGCCUACAAGUUGAGCUGACAGU |
| ex3_5648632_x1 | CM000663.2/1116961 | 16 | 0.001 | 32.2 | 1 | ATCCTTTTGTATACATTTATGCATGATGATTGGGTTTTTACCATCACATGTGGTGAGATGTGTCTCCCTCAAACTTGTTATCACGTCAGCATGTGATCAGTCTGACA |

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| | 3-11169507 | | | | | |
| ex3_5648720_x1 | ENST00000365028.1 | 21 | 5E-07 | 42.1 | 1 | TTTAGAATGTCAAAATTGATTTTGTAATAGTCAGGACAGGATAAACAGTCGCTATATTAA |
| ex3_5648826_x1 | ENST00000408175.1 | 20 | 0.0005 | 32.2 | 1 | GGGGTGTGCTCAGAGCAGGGGGCCCGAAGAATGCCTCCTCTGTTTACAACACACCCAATA |
| ex3_5649119_x1 | CM000663.2/156529330-156529429 | 19 | 0.002 | 30.2 | 1 | ATACTTTTGTAGGTCATAAGCTGAGGATTGGGTTTTCATGCTCTTGTGTGAGATATGCTTCTCTCAAACCTTCTGACCTGGGCACATTACCCAGCTAATG |
| ex3_5649345_x1 | CM000671.2/19310691-19310788 | 14 | 0.009 | 28.2 | 1 | ATCTTCTTATAGTTGATAAGCGTTGATGATTGGATGTTCACGCACATGTGTGAGATGTGCCTCCTACAACTTGATGTTGGCATATTACCTGTCTGATG |
| ex3_5649364_x1 | KZ208915.1/6242092-6242019 | 19 | 0.005 | 30.2 | 1 | AAGACTGTACTTTCAGGGGTCATTTCTGTAGTTCATTAATATAGTTTTCTGAGCATGTAGAGCACCAAAAAAAT |
| ex3_5649857_x1 | AC084794.3/215294-215169 | 14 | 0.008 | 28.2 | 1 | AGAUCAUUUCAAAGAGGGCUCGUGGGGCUAUGAAACCAUGAGCUCUUAAUGCUAUGACCAAAGACUGAAGUUCUCUAUAGGACGCCAUAGCACUCAAUGGUGCUGUUUUCCUGAGGAGACAUAAGA |
| ex3_5649868_x1 | CM000667.2/40654963-40655094 | 14 | 0.008 | 28.2 | 1 | ACGCAGGATTCAGACTAGAATATAGCTGTTAAGTGCTGTGTTGTCATTCTCCCTGCTTAAAATAAAGTTTTTTTCTTAACTATACCTGTCTGCTATCTGCTGTAGCAGCCAGGGATGCTTGGTTTCATACAT |
| ex3_5650130_x1 | ENST00000391306.1 | 14 | 0.008 | 28.2 | 1 | TGAACTTTAAAATGCAAGTTCATAGTTCTTTAAGAGACTAACACAGAAAGCTAAAGTAAT |

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|---|---|---|---|---|---|---|
| ex3_5650258_x1 | CM000668.2/16148445-16148365 | 18 | 7E-05 | 36.2 | 1 | AAGACTATACTCTCAAGGATCATTTCTATAGTTTGTTACTAAAGAAGTTTCTCTGAATTTGTAGAGCACCGAAATTATTAA |
| ex3_5650549_x1 | CM000666.2/54123204-54123100 | 14 | 0.009 | 28.2 | 1 | ATCTTTTTTGTAGTTCATAAATGCGATGATTGGGTTTTCATGTTTATGTGTGAGATGTGCTTCCCTCAAACCTTGTTATGATGTCAGTACGTTATCCATCTGATG |
| ex3_5650700_x1 | ENST00000391093.1 | 15 | 0.004 | 30.2 | 1 | TTTACAAGGGAAAAGCAACCCCATTAAAAAGTGGGCAAAGTAAGGTCTTTGGGGAACAGG |
| ex3_5650794_x1 | ENST00000363424.1 | 16 | 0.001 | 32.2 | 1 | TTCCAAAGAATTGAGTTCAGTTCAAGGCAGCTTCCCTGTTCTGTTAACGAAACTTTGGGA |
| ex3_5651079_x1 | ENST00000364514.1 | 18 | 0.009 | 28.2 | 1 | AGGCAACTCTTAGAAGATGGATAGCTTCTCTTTTGCTGTGGGTGTGGCCACAAAACGTTT |
| ex3_5651623_x1 | ENST00000363552.1 | 14 | 0.008 | 28.2 | 1 | GGTCAATGATGTAATGGCATGTATTAGCTGAATCCAAAGTTGAAGTGAATTCTAAAATTA |
| ex3_5652164_x1 | CM000679.2/4281844-4281769 | 14 | 0.008 | 28.2 | 1 | AAGACTATCCTTTCAGGGATCATTTCTATAGTTTGTTACTATAGAAGTTTTCTGAAGGTGTAGAGCACCAAAGGAT |
| ex3_5652305_x1 | ENST00000458802.1 | 15 | 0.002 | 30.2 | 1 | AGTTTTCTGTGGTTCATAAGCATGATGATTGGGTTTTCATGCTTATGTGTGAGATGTGCC |
| ex3_5652832_x1 | ENST00000362582.1 | 16 | 0.0005 | 32.2 | 1 | TCTTGTATCCAAAAGTGATCATGGGTTGCCTGTGTCCCGATCATTAACAGTGCAGGGGTA |
| ex3_5652880_x1 | AF250841.1/1-91 | 37 | 4E-16 | 73.8 | 1 | GAUCGAUGAUGACUUCCAUAUAUACAUUCCUUGGAAAGCUGAACAAAAUGAGUGAAAACUCUAUACUGUCAUCCUCGUCGAACUGAGGUCC |
| ex3_56 | ENST0 | 21 | 5E-07 | 42.1 | 1 | TGTGAGAGTGATGAGTTGCACACTGGTGGAGCCATGGTATCAGGTGATACAGGCAC |

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| 52933_x1 | 0000390833.1 | | | | | CACT |
| ex3_5653218_x1 | AC006549.28/5389-5513 | 15 | 0.002 | 30.2 | 1 | GCAGACUCACUCUGCAUCUGACUAUACUUCCAGGCGGGUGCUUUUUCUGUCUGCCAGAUAAACAUUCCAGGGUGCUGUGGCCGCCUCACGUAUCCAGAGUGAUGCAGCUCCCUGGGGACACAGGU |
| ex3_5653231_x1 | ENST00000516087.1 | 15 | 0.003 | 30.2 | 1 | GGATCGATGATGACTTAAAGATTTATCTAATTTAAATCTGAACAAAATGAGTGACCAAAA |
| ex3_5653742_x1 | CM000670.2/97358265-97358478 | 17 | 0.0001 | 34.2 | 1 | AAGACTATACTCTCAGGAATCATTTCTATAGTTTTTACTAGAGAAATTTCTCTGAACGTGTAGAGCACTGGAAACCGTGAGGAGAAGCTGCCTTCTCTTCTGAGCATGAAGTGAGCTCTCAGTGTTGCTTCTCTGCAACTGCCATTTGCCATTGATGATCGTTCTTCTCTTCCTCTGGGAGAGTAAAAGGGTACAGGATGCAGTCTGAGTAAT |
| ex3_5654322_x1 | CM000664.2/44239661-44239568 | 15 | 0.004 | 30.2 | 1 | ATCCTTCTGTAGTTCACAAGCATGATGATTGGGTTTTCACACTTACATGAGATGTGCCTCCCCTCAGCCTTGTTACTACATTATCCACCTGATA |
| ex3_5654883_x1 | CM000663.2/217307471-217307389 | 15 | 0.003 | 30.2 | 1 | GGTCAAAATGTGTTGACATGTATTACCTGAATTTATTGCTGATGTATAATAACACTTCAACTCTAAAATAATATAGCTTTTGG |
| ex3_5654895_x1 | ENST00000459124.2 | 22 | 4E-07 | 44.1 | 1 | GTGTTCAATGATGATTTCTATTTGTTTGCCTGATTTCCTTTTGGATAATGAAGGCATCTT |
| ex3_5654979_x1 | ENST00000516771.1 | 20 | 0.001 | 32.2 | 1 | CATATCTATTTGACAGACCTGGAGCAGTTACTGTCTGCTGCTAAGGTTTCCACTACAGAT |
| ex3_5656654_x1 | CM000667.2/69539264-69539161 | 15 | 0.005 | 30.2 | 1 | GTCCTTTTATAGTTGATGAGCATGATGATTGGGTGTTCACACGCATGTGTGAAATGTCCCACCCTCAAATCTTGTTACAATATTGGCACATTACCCATCTGACA |
| ex3_56 | CM000 | 28 | 6E-11 | 56 | 1 | ATCCTTTTGTAGTTCATGAGTGTGATGATTGTGTGTTCATACGCTTGTGTGAGATGTG |

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|---|---|---|---|---|---|---|
| 57671_x1 | 665.2/47250626-47250523 | | | | | CCACCCTTGAACCTTGTTACGACATTGGCACATTACCCGTCTGATC |
| ex3_5658211_x1 | CM000670.2/75892904-75892800 | 15 | 0.003 | 30.2 | 1 | ATCCTCTTGCAGTTCATAAGCATGATGATTGGGTTTTCACACTCCTGTGTGAAATGTACCTTCCTCAAACCTTTTTATAACATCAGCACATTACCGAACATGAAA |
| ex3_5658270_x1 | AC073210.8/134490-134624 | 26 | 8E-10 | 52 | 1 | GCAUGGCUGAAUACUGUGUUCUUUUAUCAGUAGUUUACACAGCCAGACACCAUGCAAAAGCAGUCUUCCCUUUAGAAUGACUGAUGGUAUGCUAAGGUUUUUCAUAGCAUAUCAUUAUUAAAGGUGAAUACAAAU |
| ex3_5658426_x1 | ENST00000363418.1 | 14 | 0.008 | 28.2 | 1 | TTTGAGGTCTTTCCCGATGGGACTTTTCTGTAGGCTGCACATCATTGGAAACGCCTCATA |
| ex3_5658550_x1 | CM000666.2/183176940-183176760 | 14 | 0.009 | 28.2 | 1 | AAGTCACGCTTAGCTTCTGCAAGTATTTGTTTTGCAGTATTGAAAAACTCCTCCATGAGGAGGGCACAGCGTTCTGCCTGGAGTGTGAGGCCGGTGTTGCTTGGCTGCAGCTGCCATTTGCCACTGATGATCATTCTTCTCTTCCCCTGTGAGAGTAAGGAGAGGATGCAGTCTGAGTGGT |
| ex3_5659086_x1 | CM000685.2/80857202-80857076 | 16 | 0.0006 | 32.2 | 1 | ATTGGTTGAATATCACCCCTGGCTTTGGCCATGGCCATGGGAGAGATTTGGCACCCAGAGCCTCCAGGGGCCTCAGCTCAATGTGCACTGCCCCATGTGCAGCTGTGAAACCCAGGCCCTGATGGGC |
| ex3_5659179_x1 | ENST00000516395.1 | 19 | 0.002 | 30.2 | 1 | ATGACCTGTGAAACCAAGGGCTCCTAATGCTATGACCAAAGACTGAAGCTCTCTATGAGA |
| ex3_5659207_x1 | ENST00000458762.1 | 15 | 0.006 | 30.2 | 1 | TGATGAATTGATGACAGTCATCTTTTGAGAGTGACCCAAAATGAAAAGAATACTCATTGC |
| ex3_5659842_x1 | ENST00000411362.1 | 14 | 0.008 | 28.2 | 1 | GCCAAATGATGCTTATTTGACTCTGGTGCACTTCAGTGTAAGGATGATTTATAATCTGTC |
| ex3_56 | ENST0 | 19 | 0.004 | 30.2 | 1 | TGTCAAAAATTCCCCAATCCTATTTCTGACACTTCATATGAAAGCTGCATGTGCAGTC |

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|---|---|---|---|---|---|---|
| 60957_x1 | 0000516883.1 | | | | | TT |
| ex3_5661076_x1 | ENST00000384488.1 | 36 | 1E-15 | 71.9 | 1 | GCATGGGTTTGGATTATGACAGGCCCATCCCCCTGGACCTCTCATAGTGCCCCATGCCAG |
| ex3_5661566_x1 | CM000679.2/18146552-18146651 | 15 | 0.005 | 30.2 | 1 | ATTCTTTTATAGTTTATAAGTGTGATGATTGAGTTTTCATGCTCAGGCATGAGATGTGTCACCCTCAAACCTTGCTAAAACATCAGCACAAGACCAGACG |
| ex3_5661933_x1 | AL132709.5/135542-135471 | 37 | 4E-16 | 73.8 | 1 | UGGAUCGAUGAUGACUACUGGUGGCGUAUGAGUCUUUUGCGAUGAAUACGUGUCUAGAACUCUGAGGUCCGU |
| ex3_5663520_x1 | ENST00000384401.1 | 14 | 0.008 | 28.2 | 1 | CTCCATGTGTCTTTGGAACCTGTCAGCTGTGGCAGTTGCCCTTCCTAGCCATGGAAGAGT |
| ex3_5664048_x1 | ENST00000410413.1 | 25 | 3E-09 | 50.1 | 1 | AAGAAATGAAGAAACTAAAATTGGTCTTAGTATTGAAGTGAAGACACTGAGATCCAACTC |
| ex3_5664763_x1 | AC068544.7/102252-102068 | 15 | 0.004 | 30.2 | 1 | AUAGUCUGUGGAAAGGCUACUGUGUUGUUGAACUUGCCCAGCUGUGGGUGCAGCCAUGUACCAGGCAGCCCAAGCCUGACAUAAAGUAAAUUCCCAGGAGAAGUCUUUCCUGGGUUUUGAAUUUGCAGUAACAGGUGUAAGCAUUCCAGCAGCAGUUUGUUGAUCAUGUGAUAUCAGAAAUGCAA |
| ex3_5665899_x1 | CM000673.2/8555016-8555146 | 15 | 0.004 | 30.2 | 1 | GACCTCTCTCTCATAGGGCTGTAGGGGATCTTTTTTCTCTTCAGCCAGGGTTGGAGGCCAAGATGGCCCTTGAGAATCATCATCATGACTGCTGAGAGCTGGGCAGCCTTGTTTACCTCCCTTGGGCATTT |
| ex3_5666123_x1 | AL121784.5/100385-100257 | 18 | 0.009 | 28.2 | 1 | GGGGUGUGCUCAGAGCAGGGGGCCCGAAGAAUGCCUCCUCUGUUUACAACACACCCAAUAGGAAUCUGGGGUCAUUGUGACAAGGGACACAGAGCUUGUGACCUCCCUACAAACAAAUGCCCUACACAU |
| ex3_5666952_x1 | CM000665.2/108574565-108574 | 14 | 0.009 | 28.2 | 1 | ATAAACAAAAGAACACCAATTGTGCTCCTTTCCTCCTGGGGCCCAGTGTGCAATGGCTGCAAACAGCTGCCTCCTTGGTAGTATACATGGCCTGTTGCTTGTATGGGTTGGCCTAAGAAACCTGAGAGACAGCC |

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|  | 698 |  |  |  |  |  |
| ex3_5667440_x1 | CM000666.2/87768581-87768485 | 14 | 0.009 | 28.2 | 1 | ATCCTTTTGTGGTTTGTAAGAATGATGACTGTGTTTTACACTCAAGATGTGCCTTTCTCAAACCTTATTACCATGTTGGCACATTACCTGTCTGATG |
| ex3_5667448_x1 | ENST00000516873.1 | 14 | 0.008 | 28.2 | 1 | ACTCACTGATGAGTAGCTTCTGACTTTCATTCTGAGTTTGCTGAACCCAGATGCCATTCC |
| ex3_5667515_x1 | AC009967.8/26053-26184 | 14 | 0.009 | 28.2 | 1 | GGCUUCCUAGUACUUACCAUGGUCUGUGUUCUUACGCUGACUGUAUAGAAACAGGAGGCAGAGUAAACCGACCCCACAUAUACCUCAGCCCAGGCCCUGUGCUGCGUCUGUAUUGUGAAUCAGGAGACAUGG |
| ex3_5668452_x1 | ENST00000516629.1 | 15 | 0.002 | 30.2 | 1 | GAGCAGTTTGGCATATGTTCTGAATCTGAGGTTGATTATTATTCCTTTAGCGCTAGTATT |
| ex3_5669346_x1 | CM000667.2/56000621-56000518 | 16 | 0.0007 | 32.2 | 1 | ATTCTTTTGTAGTTTATAAGCCTGATGATTGGGTTTTCATGTGCATGTGTGAGATGTGCCTCCCGCAAACCTTGTTACGACGTTGGCACATTACCCATCTGATG |
| ex3_5670017_x1 | CM000666.2/73559234-73559311 | 14 | 0.008 | 28.2 | 1 | AAGAGTATACTTTCAGGGATCATTTCTATAGTTTGTTATTAATAGGTGGCTGCTAAAATGTAGAAACCATTAAATAGT |
| ex3_5670080_x1 | CM000674.2/62651175-62651278 | 14 | 0.009 | 28.2 | 1 | ATCCTTTTGTAGTTCATAAGCTTGATGTTTGAGTTTTCACACTTACGTGTGAAATGTGCCTCCCTTAAACCTTGTTACTACGTCAGCACATTACCCATGAGACA |
| ex3_5670281_x1 | CM000675.2/72586680-725868 | 14 | 0.009 | 28.2 | 1 | TGGCAAGCCTCCAGCGTGCGTGGGTCTGTGGTGATGTGTGCATTCCTACACTGCTTGCCAGAACAGTATTGAAATAGTGGAGCGTTTGTCCTGCTCCATCCAGAGCAAGGTTATAGAAATTTCAGACAATT |

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| ex3_5670353_x1 | CM000669.2/56100659-56100752 | 14 | 0.008 | 28.2 | 1 | ATCCTTTTGTAGTTAAGTGTGATGACAGGGTTTTCACACTCATGAAGTGTGCCTCCCTCAAAACTGGTTGCATTGACACACTACCCATCTGACA |
| ex3_5670476_x1 | CM000673.2/32081764-32081973 | 15 | 0.002 | 30.2 | 1 | AAGACTATACTTTCAGGGATCATTTCTATAGTTCATTACTAAAGAAGTCTATCTGAACATGTAGAACACATGACACCATAAGGAGGAGGCACAACATTCTCCCTAGAGCCTGAAGCTGGCTCTTGGTGTTTCATGACTACAGCAGCCATTTGCCACTGATGACTGTTCTCTTCCAGGAGAATAAGAAGGAGAAGATGCAGTTTGGGTTGT |
| ex3_5670971_x1 | CM000676.2/41594462-41594591 | 15 | 0.004 | 30.2 | 1 | TTTATTTATCTGACAGACCTGCAGCAGTTACTGGATGCTGTTAAAGTTTCCACTACAGATGCAAGAAAAGTGTCCCACACTTTCTGTCTGTCTGATTGTGACAGCTAAGATTAAATCAGGTAGGACAGTA |
| ex3_5671061_x1 | CM000673.2/46758873-46758766 | 14 | 0.009 | 28.2 | 1 | TATAAATGTGATGAATTGCACACTCGCAGAGTCATAGCATTAGGGGATGCAGGCAGTGTTTCATACTTTCCCGAGGAAAGAAATGCACAGGTGCCACTCAGTCATCAC |
| ex3_5671243_x1 | CM000663.2/226304262-226304363 | 15 | 0.006 | 30.2 | 1 | ACCCTTCTTAGTTCATAAGCATGATGATTGGGTTTTCATACTCATGTGTGAGATGTGTCTCTCTCAAACTTTGTGAAAAGTCAGCACATGACCCATCTGATG |
| ex3_5671539_x1 | ENST00000517180.1 | 15 | 0.004 | 30.2 | 1 | TTGCAGATGCAAGAAAAAAGTGTCCTCATGCTTTCTTTCTGATGGTGGCAGCTGAGACTG |
| ex3_5671644_x1 | CM000665.2/98872180-98872083 | 16 | 0.0006 | 32.2 | 1 | AAGACTATACTTTCAGAGATCACTTCTGTAGTTTATTATTAGAAAGTTTCTCTGAATGTGTAGAACACTGGAAAAAATGATCTAAGACTACTGTGAAT |

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| ex3_5671648_x1 | CM000665.2/172975242-172975142 | 16 | 0.0008 | 32.2 | 1 | ACCATGTTGTGGTTCACAAGCATGATAACTCTGTTTTTACGCTCACATGTGAGACATGCCTCCTTCCAATCTTGTTATGTCAGCACATTATCCATCTGATG |
| ex3_5672498_x1 | CM000664.2/104532773-104532985 | 14 | 0.009 | 28.2 | 1 | AAGACTATTCTTCTAGGGATCTTTTCTATAGTTCAGTACCAGAGATGGTTCTCTGACAGTGTGGAGCACCAGAAACCATGAGAAGGAGGCACAGCAATCTCTCCTGAGCATGGAGCCTGCTCTTGGTGTTGTTTTGCTGCAGCTGCTGTTTGCCATTGATGATCGTTCTCTTCTTTCAGGAGAGTAAGAAGGCGAGGATGCAGTCTGAGTGGT |
| ex3_5673688_x1 | CM000669.2/136841196-136841093 | 15 | 0.003 | 30.2 | 1 | ATCATTTTGCAGCTTATACATGTGATGACTGGGTTTTTTAACTCATAAGTGAGATGTGCCTTTCTTACATCTTATTATGACATTAGTACATTACCCATTTGATA |
| ex3_5674144_x1 | CM000668.2/38207274-38207345 | 15 | 0.004 | 30.2 | 1 | GGTCAATGATGTAATGGCATGTATTAGCTGAATCCAGAGTTGATATGAGTTCTAAAATTACACTGAAGCTGG |
| ex3_5674161_x1 | CM000663.2/35310274-35310425 | 15 | 0.004 | 30.2 | 1 | AAGGCAGCATTGTTGTAGATGATTTGAAAGATTTTAAAAGGTATAAGCTCACAAGTGTAGGTAGTGTGCTACATGAGGGGCAAGTTTTTCACTAATATTACAAGGGTCTCTGATCCAGTGAGTGGAGTTTGATAGTAATTTTTGATACAAGT |
| ex3_5674217_x1 | CM000670.2/71815625-71815494 | 14 | 0.009 | 28.2 | 1 | TCCACAGGTGAGATCATCCTTACCTGTTCCTTCTTTTGGAGGGCAGAGTTCACGATGACTAGAGTTTACATGATATGTGATTAATTCTCTGCATAATCAGGATTTGCAACATTCTGTTTGCTCCTACCTGAT |
| ex3_5674371_x1 | BC036582.1/1156-1210 | 18 | 5E-05 | 36.2 | 1 | GGGGUGAUGAAGGCCUGCACCUGGUCCCCUCCCCAACUCUGCUCUGCUCCUGAAG |

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| ex3_5674630_x1 | CM000680.2/3025567-3025434 | 14 | 0.009 | 28.2 | 1 | ATCCCATCTCTTAAATAAAAAGATTTTTTTTTTAAGAAGTTGTACATGTGCAATGGCTGCAAACAGCAGCTTCCTTGGCAGTGTGTGCAGCCTGTTTCTTGTATGGGTTGCTCTAAGGGACCTTGGAGACAGGC |
| ex3_5676479_x1 | ENST00000363791.1 | 22 | 7E-05 | 36.2 | 1 | AGGTTGATGATGACTTACATATATACGTTTTTTTTTTTTTTTTGGAAAGGTGAACAAAAT |
| ex3_5676933_x1 | ENST00000365519.1 | 14 | 0.008 | 28.2 | 1 | TAGAAGCCAATTAAGCCAACTGAGTTTCTTTCCTCACAGGGACCTGGTGTGCCATGGCTG |
| ex3_5677417_x1 | ENST00000384533.1 | 15 | 0.003 | 30.2 | 1 | GGATCGATGATGACTTTCATACATGCATTCCTTGGAAAGCTGAACAAAATGAGTGAAAAC |
| ex3_5677735_x1 | CM000664.2/86347195-86347062 | 25 | 7E-07 | 42.1 | 1 | TCATCAGGTGGGATAATTCTTACCTGTTTCTCCTTTTGGAGGGCAGGAAGAATAGGCTGATTGGAGATGCATGAAATGTGGTTAATGTCTCTGCGTAATCAGGACTTGCAACACCCCGATTACTCCTTTCTGAT |
| ex3_5677790_x1 | CM000669.2/138176154-138176282 | 15 | 0.002 | 30.2 | 1 | ATCTTTTTGTAATTCCTAAGCATGATGGTTGATTCGGCTCTCACACTTGATGATTGGGCTTTCACTTGGATCTGTGAGATGTGCCTCCCTCAACCCTTCCTGCGAAGTCAGCACATTACCTGACAGAAA |
| ex3_5677873_x1 | CM000685.2/72726337-72726122 | 15 | 0.008 | 30.2 | 1 | AGGGCTATACTTTCAGGGGTAATTTCTATAGTTCATTACTAGAGTAGTTTCTCTGAATGTGTAGGGTGCCAGAAACCACAAGGAGGAGGCACAGCATTCTCTAGTGAGTGTGAAGCCGGCTGTTGGTGTTGCTTCGCTGAAACTGCCATTTGCCACTGATAATCGTTCTTCTTTTCCATCAGGAGACTAAGAGGTAGAAAACGCAGTCTGAGTGGT |
| ex3_5678039_x1 | ENST00000364166.1 | 21 | 1E-06 | 42.1 | 1 | TGGACTGTTGATGACAAGTGGTGGCTTATGTGGTTGTACATGCTGGTTGTATATGAAGAA |
| ex3_5678304_x1 | CM000671.2/62358285- | 15 | 0.004 | 30.2 | 1 | CTACAATCAATTAAGCCACATGGGGCCTGGTGTGCAAGGGCTGCAAACAGCATCATCCTAGGTAGTGTACAGCAGCCTGTTCCTTGCGTACAACA |

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| | 62358191 | | | | | |
| ex3_5680225_x1 | CM000673.2/117263799-117263952 | 14 | 0.009 | 28.2 | 1 | TTGTCCTGGCCTATGCTTTTTCTACTCCCCTCTGCTTTTTTGGTCCCCCTGTGCTCAGTTCTAACAAGGTAGTCTGGCAGGACACACAGCAGTCTCCTTCAGTTTAGGAGGACTGTCTTTAGAATAGAGCTGTCCCAAGGCACAAGATTACAAT |
| ex3_5680949_x1 | ENST00000517240.1 | 14 | 0.009 | 28.2 | 1 | GCTGTCCTGGACCTGCCAGCACCACAGACACAGTTGCTCCTGCGTGCCTGTAACACCGGG |
| ex3_5681249_x1 | CM000684.2/20946645-20946718 | 15 | 0.004 | 30.2 | 1 | AAGACTATACTTTCAGGGATCATTTCTATAGTTCATTACTAGAGAAGTTTCTCTGAAGGTGTAGAGCACCCCTC |
| ex3_5682184_x1 | CM000674.2/110496421-110496352 | 17 | 0.0002 | 34.2 | 1 | AATCAATGATGAAACCTATCCCAAAGCTGATGACCTGAAGAAAAATACGTACAGATTCAGCTTCTGAGAT |
| ex3_5682546_x1 | CM000669.2/98389824-98389755 | 15 | 0.002 | 30.2 | 1 | AAGACTTTACTTTCAGGGGTCATTTCTATAGTTTGTTCAGAAGTTTCTCTGAATGTGTAGAGCAAAAAGT |
| ex3_5682644_x1 | CM000663.2/230895541-230895432 | 15 | 0.004 | 30.2 | 1 | ATTATTTTGTGGTTCATAAATGTGAAACACACTTACAGTTTTTCATGCTCATGTGTGAGATATCCATCCTTTAAACCTTGTTACAATGTTGGCACATTACCTGTCCGATA |
| ex3_5683093_x1 | CM000667.2/35429064-354292 | 15 | 0.003 | 30.2 | 1 | AAGACTATACTTTCAGGGATCATTTCTATAGCTCATTACTAGAGAAGTTCCCCTGAACGTGTAGAACACTGGCAACCATGAGGAGGACATGCAGTGTTCTGTCCTGAGTGTGAAGCTGGGTCTTGGTGTTGCTTTGCTGCAAGTACCATTTGCCACTGATGATTGTTTTTGTCTCCCTCTGGGACAGTAAGGGAAAGGACACAGTCTGAGTGAT |

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| ex3_5683576_x1 | ENST00000458908.1 | 15 | 0.005 | 30.2 | 1 | TAGCACTGTTGCCTGAGCCATTGGTGCTCCCTGGTACTAGCTCAGTTTTAATGCAGTGCA |
| ex3_5683716_x1 | CM000672.2/19598247-19598463 | 14 | 0.009 | 28.2 | 1 | AAGACTGTGCTTTCAGGGATCATGTCTATAGTTTGCCACTAGAGAAGTTTTTTTGAACATGTAGTAGGGCACCAGAAGCACAAGGAAGAGGCACAGCCTTCTCTCCTGAGCATGAATCTGGCTCTTGGTCTTGCTTTGTTCCAGCTACCATTTGCCATTGATTATGTCCTTCTCTTCCTTCCAGAAAGTAAAAGGGAGAGAATGCAGTCTGAGTGGT |
| ex3_5684392_x1 | CM000667.2/142626305-142626169 | 14 | 0.008 | 28.2 | 1 | CAATGCCTTGAGTTCAGTCGAGGACAGCTTCCCTTTTCTGTTAATTAAACTTTGGAATGTTGGGGCATTAAAACAGGCTAGGGTAGGTGATTGCACAGAGAATACTATTCTATTCATTTCCTTCCTAGCCAAAAACA |
| ex3_5684513_x1 | CM000671.2/128749358-128749461 | 19 | 0.002 | 30.2 | 1 | ATCCTTTCGTAGTTTATAAGAGTGATGATTAGGTCTTCATGCTCATGTGTGAAATGTGCCTCCCTCAAACCATGTTAGGACGTTGGCATATTGCCCATCTGAAA |
| ex3_5684806_x1 | AL132709.5/129680-129609 | 15 | 0.003 | 30.2 | 1 | UGGAUCAAUCAUGACUACUGGUAUUGGAUGGGUCUUCGUCAGUGAAUGCCUAUCUGGAACUCUGAGGUCCAU |
| ex3_5685138_x1 | CM000684.2/19249840-19249966 | 14 | 0.008 | 28.2 | 1 | TCAAAGCTGATTTTGAAACTTAAAAAAAAAATCGCCAGGTACCATGCAAAAGCAATCTTCCCTTTAGAATGACTGATGGTATGCTAAGGTTTTTCGTGGCATATTATTATTAAAGGTGAATACAAAT |
| ex3_5686363_x1 | CM000664.2/147323971-147324075 | 14 | 0.008 | 28.2 | 1 | ATCTTTTTGTAGTTCATGAGCACGATGATTGGGTTTTCACAAGAATGTGTGAGATGTGCCACCCTCTGAACCTTTTTATGATCTTGGCACATTACCCATCTGACC |
| ex3_5687119_ | CM000670.2/1 | 15 | 0.004 | 30.2 | 1 | ATTCTTTTTTAGTTTAAAAGTGTGATGATTAGGTTTTCACACTTGTGTGAGATGTGCCTTCCTCAAACCTTGTTACAACGTCTGCACATTACCCATCGGACA |

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|---|---|---|---|---|---|---|
| x1 | 12563976-112563875 | | | | | |
| ex3_5687293_x1 | AC008581.11/95393-95256 | 27 | 2E-10 | 54 | 1 | UGGAGGACUGAGAAGGUGAGGCAGUUUGCCCCGUGCUGCCUUCCACCGGUUAAGACCUCCAAAAUCGAAGGGCUGCCCAGGCAGAGGAUGUCCCCUUGCCACCCUUGGAGGGGCAGCGCUGUGCUGGCCGACAUUUG |
| ex3_5687461_x1 | CM000668.2/110963466-110963569 | 15 | 0.004 | 30.2 | 1 | ATCTTTTTGTAGTTCATAAGCATGATGATTATGTTTTTACATTCATGTGTAAGATGTGCCTCCCTCAAACCTTGTTATGATGTCAGCATATTACCTGTCTGATG |
| ex3_5688031_x1 | ENST00000384737.1 | 15 | 0.004 | 30.2 | 1 | GTGCACATTTCATTGACCTGCTTTCTTTTATGTGAGTAGTGTTATTTCTTATGTGCTATA |
| ex3_5688617_x1 | ENST00000390977.2 | 19 | 0.004 | 30.2 | 1 | ATACTGTGACAGTTGCATCGTTCAGCAGATTGAGTCACGAAGAGATGTATACCATCTGTC |
| ex3_5688722_x1 | AC010325.7/132197-132107 | 23 | 4E-08 | 46.1 | 1 | GGGCCUCCAUGAUGUCCAGCACUGGGCUCCGACUGCCACUGAGGACACGGUGCCCCCCGGGACCUUUGACACCCGGGGGUCUGAGGGGCCC |
| ex3_5688963_x1 | ENST00000459128.1 | 14 | 0.009 | 28.2 | 1 | GGATCGATGATGAGAATAATTGTCTGAGGATGCTGAGGGACTCATTCCAGATGTCAATCT |
| ex3_5689140_x1 | CM000674.2/84183448-84183324 | 14 | 0.009 | 28.2 | 1 | GCTGACACTAGAGTAACATCCTGACACAGCTCTTGTCCTGGTGTGCTAGAGTTCTCGATGAATCTACTGGTCTTGATTCACTGGCAGGAGCAGTGACTGTGTTAGTATGCGTATCTGAAACATGG |
| ex3_5690067_x1 | AC107390.4/33836-33915 | 14 | 0.009 | 28.2 | 1 | UUGAUCUACCUCUGAUGAAACCUGUGUUGGUGGGGACAUCUGAGAGUGUUGAUGAAUGCCAGUGACUCUGAUAGAAAAAA |
| ex3_5690121_x1 | CM000679.2/2802246 | 14 | 0.008 | 28.2 | 1 | TAGAAGCCAATTAAGCCAACTGAGTTTCTTTCCTCACAGGGACCTGGTGTGCCATGGCTGCAAACAGCAGCTTCCTTGTCAGGGTACGCAGACTGTTTCTTGGATGGGTTGCTCTAAGGGACCTTGGAGACAGGC |

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| | 4-28022330 | | | | | |
| ex3_5690457_x1 | AC079121.5/42943-42813 | 18 | 6E-05 | 36.2 | 1 | UUCCAAAGUGUUGAGUUCAGUCCAGGGCAGCUUCCCUGUUCUGUUAAUUAAACUUUGGGACAUUGAAAUGGGCUAGGGGAGAUGAUUGGGUAGAAAGCAUUAUUUUAUUCAUUUGCCUCCCAGCCUACAAA |
| ex3_5691149_x1 | X87373.1/2786-2857 | 15 | 0.004 | 30.2 | 1 | AAUGAAUGAUGACAAAAUGUUUCAGUCCCAAAUGAUACAUACUGAUUAUACCAUUAUAUUUAUCCUGACAUU |
| ex3_5691163_x1 | ENST00000390962.1 | 17 | 0.0002 | 34.2 | 1 | AAATAATGAAATCACCCAAAATAGCTGGAATTACTGGCAGATTGTGTAGCAATAAACCTA |
| ex3_5693450_x1 | CM000685.2/135183306-135183190 | 14 | 0.008 | 28.2 | 1 | AAGACTATACTTGCAGGGATCATTTCTGTAGTTGGTTACTAGAGAAGTTTCTGTGACAGGGCACAGTACCAAATTTTAAAAGAATGCACTTCAAATCTTCAAAGTTAGGATTGGAGA |
| ex3_5694803_x1 | ENST00000383961.1 | 14 | 0.009 | 28.2 | 1 | GGATCGATGATGACTTCCTTATATACATTCCTTGGAAAGCTGAACAAAATGAGTGAAAAC |
| ex3_5694950_x1 | CM000668.2/68665245-68665128 | 31 | 2E-12 | 61.9 | 1 | AAGACTATACTTTCAGGGATCATTTCTATAGTTTGTTACTAGAGAAGTTTCTCTGAACGTGTAGAGCACCGAGAACCTACAAAATACCATGAAATGAGAAGTGATGATAAAGAGTGGT |
| ex3_5695184_x1 | ENST00000615323.1 | 18 | 1E-04 | 36.2 | 1 | AACACTTCCATGCACCATTTCTATAGTTTCTTACCAGAGAAGTTTCTCTGAACATGTGGA |
| ex3_5696037_x1 | CM000663.2/67102779-67102645 | 14 | 0.008 | 28.2 | 1 | ATGCATCTATTTGACAGACCTGGAGTAGTTACTGTCTGCTGCTAAGGTTTCCACTACAGATGCAAGAAAAAAAATATTCTCGAGTTTTCTGTCTGTCTGATTGTGGCCTCTGAGATTGAATAGAGGAATACAGTG |
| ex3_5696049_x1 | AC073210.8/129951- | 14 | 0.008 | 28.2 | 1 | UUGCACAGUGAACACCCAAGUGUGCUUUAUAGUUCCCUUGGCUUUGACCCUGUGCUAGAGCAUUGCCUGCUCUUCUCCUCUGCAUUGAAAGGAAUAUUUAUCCCUUUAAAUGUAUUCAGAAAGCCAGCACAUUA |

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|---|---|---|---|---|---|---|
| | 130084 | | | | | |
| ex3_5697017_x1 | CM000685.2/48081767-48081870 | 14 | 0.008 | 28.2 | 1 | ATCCTTTTGTAGTTCCTAAGCATGATGATTGGGTGTTCATGTGCTTATGTGAGATGTGCCTTTCTCAAACCTTGTTATGACATCAGCACATTATTCATCTGATA |
| ex3_5697159_x1 | CM000665.2/4878702-4878599 | 14 | 0.008 | 28.2 | 1 | ATTCTTCTATAGTTCATGAGCATGATGATTGGGTGTTCATGACATGTGTGAGATGTGCCACCCTCTGAACCTTGTTCCCACATCGGCACATTATCCATCTAACC |
| ex3_5698399_x1 | CM000669.2/148389645-148389859 | 14 | 0.009 | 28.2 | 1 | TAGTAACACTTCCATGCACCATTTCTATAGTTTCTTACCAGAGAAGTTTCTCTGAACATGTGGAGCACCGGAAACCACGAGGAGGCGGCTCAGCATTCACTCCTGAGCATGAAGCTGGCTCTTGGTGGTGCTTCTCTGCAATTGCCTTTTGCTGCTGATGATCACTCTTCTCTTCCTTTGGGAGAGTGAAAGGGAAAGGAAGCCATCTGAAGGGT |
| ex3_5698480_x1 | ENST00000384234.1 | 15 | 0.003 | 30.2 | 1 | GGCTTCCTAGTACTTACCATGGTCTGTGTTCTTACGCTGACTGTATAGAAACAGGAGGCA |
| ex3_5698613_x1 | ENST00000384053.1 | 16 | 0.0005 | 32.2 | 1 | GGCTTCTCATTGAGCTCCTTTCTGTCCATTGATGGCAGTTGATGGATTTGCATGAGAAGA |
| ex3_5699346_x1 | AC011120.11/127524-127388 | 16 | 0.0006 | 32.2 | 1 | CAGACAUUCAUUUUUAUCCAGUUUCUUCUCAAAGUGAAGAUAACUUUUUGUAAAUGUCCUAAAGUCAUGUAGAAUGUAGUAGCUUUCUGUUCACACUGUACAAAUAAAAAGGAUGGAUCAUUCUACAACUGACAUUA |
| ex3_5699447_x1 | ENST00000517218.1 | 16 | 0.0006 | 32.2 | 1 | TTGCAGGTTTGCTCCAAGGTTTAAACATGAACACTAGTCAAGCTAATTGTGCTCCTCTCC |
| ex3_5700798_x1 | ENST00000364393.1 | 14 | 0.009 | 28.2 | 1 | TGGATCAATGATGTCCACTGGTGGCGTATAAATCATATTTGGTGAATATATGTCTGGAAC |
| ex3_5701199_x1 | ENST00000364946.1 | 14 | 0.008 | 28.2 | 1 | CCAACATGGATACCCTGGGAAGTCACTCTCCCCAGGCTCTGTCTAAATGGCATAGGGGAG |
| ex3_57 | ENST0 | 17 | 0.000 | 34.2 | 1 | GCTGACACTAGAGTAACATCCTGACACAGCTCTTGTCCTGGTGTGCTAGAGTTCTCG |

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| 02423_x1 | 0000408221.1 | | 2 | | | ATG |
| ex3_5702573_x1 | ENST00000362522.1 | 18 | 0.008 | 28.2 | 1 | AGGACATTTCAATGCGGGCTCATGGGGCTGTGAAGCCAAGAGCTATTAACACTATGACCA |
| ex3_5702583_x1 | ENST00000384439.1 | 18 | 3E-05 | 36.2 | 1 | GCATGGCCGAATACTGTGTTTTTATCAGTAGTTTACACAGCCAGACACCATGCAAAAGCA |
| ex3_5702617_x1 | CM000663.2/23882255-23882352 | 15 | 0.003 | 30.2 | 1 | ATCCCTTCGTAGTTCATAAGCGTGATGACTGGTTTTCACGCTCACGTGTGAGATGTTCCTCAAACCTATGATGACATTGTCACGTTACCAGTCTGATG |
| ex3_5702713_x1 | AC020634.16/18995-18865 | 25 | 3E-09 | 50.1 | 1 | UGCAGCUGUGUCAAAUUUGGUGCCUGCCCUGCCUGUGUAGGCACUGACCCAGAAGGCUGCCACAGAAACACUGACUCAUGGGCCCUGUUCCUGUGUCUCGGGCUCAGGGAUAAAUUUGGUUACAGAUACCA |
| ex3_5702789_x1 | ENST00000517233.1 | 14 | 0.009 | 28.2 | 1 | CTGCATTTTACCCTCCCTGATGGGGCTCAGTGTGCAGCAGCTGGAAAAAGTAGATGCCCT |
| ex3_5703094_x1 | ENST00000459316.1 | 14 | 0.009 | 28.2 | 1 | TTGCATGAGGAAGTATCTGCTCTTCATTCCTTTGGGAGGAGAAATACATCCATAACATGC |
| ex3_5703586_x1 | CM000669.2/152609313-152609434 | 16 | 0.001 | 32.2 | 1 | GCACCCCTTTAAGGCTGATGCAATGCTTTAAGAGGCTAACGCAGAAGGGTGAAGCCAGTCTCCTTAAAACCCAAAGAAGAGATTGTAAAACTTCTCTTTGGATCCTGTCTGGAGTCACAGCT |
| ex3_5703853_x1 | ENST00000607707.1 | 21 | 5E-07 | 42.1 | 1 | TGATGGCAATGATGATTTTTACACTTATTGTTGTTCACCTGATAACATAAATATGAGGGT |
| ex3_5704791_x1 | ENST00000516717.1 | 14 | 0.009 | 28.2 | 1 | AAGACCCTTCAGCTGCAAACAACAGCTTCCTTGGTAGTTTATGCAGCCTGTTTCTTGTAT |
| ex3_5705101_x1 | ENST00000517285.1 | 15 | 0.007 | 30.2 | 1 | TTCCTAAAGATTCACAATGAACATTATTATTTAAGAGCTTTTTGAAGTGCAAATCCATGA |
| ex3_57 | CM000 | 15 | 0.004 | 30.2 | 1 | ATTCTTTTTTGGTTCATAAGTGTGATGATTTCGTTTTCATGTTAAAGTGTGAGATCAGC |

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|---|---|---|---|---|---|---|
| 05153_x1 | 666.2/183582301-183582195 | | | | | CTCCCTCAAACCTTGTTACTACATCAACACCACATTATCCATCCAATG |
| ex3_5705352_x1 | AJ609435.1/1-128 | 33 | 8E-14 | 65.9 | 1 | GUGCACAUUUCAUUGACCUGCUUUCUUUUAUGUGAGUAGUGUUAUUUCUUAUGUGCUAUACAAAUAAUUGAAGGCUAAUUAGCAGUAUAACUAUAAAUAGUAAUGCUGCCAGUCUCCUUCAGACAAAA |
| ex3_5705814_x1 | ENST00000607261.1 | 14 | 0.008 | 28.2 | 1 | TGGATCAATGATGAGTATTGGTGGAGGTGTCTGAATCAACACTTTTGATTAAGCCCTCTG |
| ex3_5706112_x1 | ENST00000391302.1 | 15 | 0.005 | 30.2 | 1 | TGCCCCTGACCTGGGAAGAGAGGGGCCTGGCTGGTGGTATCCATCTCATACCAGCTAGGG |
| ex3_5706295_x1 | AC080089.5/42226-42352 | 15 | 0.003 | 30.2 | 1 | GGGGUGUGCUCAGAGCAGGGGGCUGAAGAAUGGCUCCUCUGUUUAUAACACAUGGAACAGGCAUCUGAGGUCACUGUGACAAGGGGCACAAAACUUGUGACUCCCUAAGAACAAAUGUCCUACAAGU |
| ex3_5706497_x1 | ENST00000363883.1 | 15 | 0.002 | 30.2 | 1 | CTACAAAGATAGCAACACTTTTCATCAACAGCAGTTCACCTAGAGAGAGTCGACACTTTT |
| ex3_5707351_x1 | CM000669.2/138625188-138625060 | 18 | 3E-05 | 36.2 | 1 | AATACTTCATTTAGTTCCATTAACAAAATCTAAAGTTGATTTATAGGCAGGTACAAAAAAATCAATCCTCTTTTGCAATCCAGAACTCATTGTTCAGTATAAGTTTTGCTACAAATAAGAAGGGGTATT |
| ex3_5708289_x1 | ENST00000391143.1 | 16 | 0.0008 | 32.2 | 1 | TGTCCTTGACTTGGGTAGAGTGATGTCTGGTTGGTGCTGCCTATCTCATATAAGCCAGGG |
| ex3_5709568_x1 | CM000668.2/43544144-43544270 | 16 | 0.0006 | 32.2 | 1 | CTGAAGACTAAGAAAATAGAGTCCTTAAAGTCAAGCTGAGTCTGCTGTTAGCCTCCTAAATGAAAGGATAGACAGAACAGGTCTTGTTTGCAAAATAAATTCAAGACCTACTTATCTACCGACAGCA |
| ex3_5710013_x1 | CM000672.2/101280897- | 15 | 0.006 | 30.2 | 1 | AAGACTGTACTTTCAGGGATCATTTCTTTAGTTCATTACTAGATAAGTTTCTCTGAATATGTAGAGCGCTGAATTATAAT |

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| | 101280976 | | | | | |
| ex3_5710020_x1 | CM000685.2/124133276-124133377 | 19 | 0.003 | 30.2 | 1 | ACTCTTTCATCTTTTTTGTGATGACTGGATTTTCATGCTGTTATGTGAGATGTGCCTCCCTCAAACCTTGTCATGACATCTTGGCACATTACCCATCTGATG |
| ex3_5710244_x1 | ENST00000408405.2 | 15 | 0.006 | 30.2 | 1 | AATTCTATACTTTGAGGAGCCATTTTCATAGTTTGTTACTAGAGAAGTTTCTCTGAACAT |
| ex3_5710364_x1 | AL132709.5/156819-156747 | 15 | 0.004 | 30.2 | 1 | UUGAUGAUAUGAUGGCCACUGGUGGCUUAUGAGUCUUAUACAGUGAAUACAUGUUUGAAACUCUGAGGUCUGU |
| ex3_5710647_x1 | ENST00000363352.2 | 14 | 0.008 | 28.2 | 1 | AAGATTATACTTTCAGGAATCATTTCTATAGTTTGTTACTAGAGAAAGTTCTCTGAATGT |
| ex3_5711358_x1 | CM000685.2/120589441-120589530 | 14 | 0.008 | 28.2 | 1 | AAGACTATATTTTCAGGGGTCACTTCTATAGTTTGTTACTAGAGAAGTTTCTCTGAACAGGTAAAGATAAAAAGCACATATGTACTGTGT |
| ex3_5714425_x1 | ENST00000391109.1 | 15 | 0.006 | 30.2 | 1 | AGGCCAATGCTGAATTATTATCTTGACGAGAAATGATGACGTAAAAATTAAGCTTAGTAG |
| ex3_5715008_x1 | CM000685.2/118738055-118738182 | 14 | 0.009 | 28.2 | 1 | TAGCACTGTTGCCTGAGCCATTGGTGCTCCCTGGTACTAGCTCAGTTTTAATGCAGTGCAATAGGAATTCTTTGTTTCCACAAGGCCTTGTCCTGCTGTGGGCTGCTCCTTCCCACAGTTGGACCTTG |
| ex3_5716138_x1 | ENST00000408116.2 | 22 | 4E-05 | 36.2 | 1 | AAGACTCTACTCTCAGGGCTCATTTCTGTCATTCAATACTAGAGAAGTTTCTCTGAATGT |
| ex3_5716509_x1 | CM000670.2/54330687- | 14 | 0.009 | 28.2 | 1 | CCAACATGGATAGTCTGGGAGGTCACTCTCCCCAGGCTCTGTGGAAGTGGTGTTGGGGAGCATAGACGTTTGGTCCATGACGTACAGTACAGCCCCTTTCCACAATGCTGGAGATGAAGCTGGGTCTCCTGTCTGCGCCTGCATATTCCTATAGCTTCCCTGAGTCCTGTGGATGATGACTGGTGAGACAAATCGTGCAGGAAACAAGT |

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| | 54330895 | | | | | |
| ex3_5716605_x1 | CM000685.2/32848005-32847907 | 16 | 0.001 | 32.2 | 1 | ATCCTTTCGTAATTCATAAGCATGATTTGGGTGTTTATACTCAGATATGAGATAAGCCTTTCTCTAAACTTATGATGTTGGCACACTACCCATTTGATA |
| ex3_5716755_x1 | CM000679.2/60961893-60961790 | 14 | 0.009 | 28.2 | 1 | ATCCTTTTGTAGTTCATAAGCATGATGAGTGGGTTTTCACACTGCTGTGTGAGATGTGCCTTCCTCAAGCCTCGTTACAATGTCAGCACATTATCCATCTGATG |
| ex3_5718161_x1 | CM000668.2/157291399-157291311 | 15 | 0.002 | 30.2 | 1 | ATCCTTTTGTGCTTCATAAATGTGGGTTTCCAACGTGCATGAGATGGCCCTCAAACCTTGTTACAACGATGCACTTTACTCGTTTGATG |
| ex3_5718870_x1 | CM000675.2/44628673-44628569 | 15 | 0.005 | 30.2 | 1 | ATCCTTTTGTAGTTCATGAGGATGATGGTTGGGTGTTTCACACATGTGTGTGAAATGTACCACCCTCAAACCTTGTTACAATGTCAGCACATTACCTGCCTGACC |
| ex3_5718891_x1 | CM000682.2/38449370-38449503 | 18 | 4E-05 | 36.2 | 1 | ACCTGCATTCAAAAATGATCACGGGCTGCCTGTGCTCTGGTCATCAATAACGCAGGGAGAGGAATTGCTGAAAGCCGTTTCCCGTGTTTGGAGGGTTCACACCTGTCCCTTTCAAATGCTGGCGCTTTCACACA |
| ex3_5718940_x1 | CM000669.2/107999982-107999791 | 14 | 0.009 | 28.2 | 1 | AAGACTATCCTCTCAGTGATGATTTCTATAGTTCGTTACTAGAGAAGTTTCTCTAAACATGTAGAGAGCATCAGAAACCACAAAAAAGAGGTGCAGCGGTCTCTCCTGAGTGTGAAGCTGGCTCTTGGTATTGCTTCTTGGTTCTTCTCTTCCTTTGGGAGAGTAAGAGGAAGAGGATGCAGTCTTAGTAGT |
| ex3_5718958_ | ENST0000036 | 14 | 0.008 | 28.2 | 1 | CCAATGTGGATACACCCAGGAGGTCACTCTCTCCCCAGGCTGTGTCCAAGTAGCATAGGG |

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|---|---|---|---|---|---|---|
| x1 | 4478.1 | | | | | |
| ex3_5718988_x1 | AC007240.2/22839-22705 | 42 | 5E-19 | 83.8 | 1 | UAGGCCCUGAAUCAAGACUAGUGUUUUGCUGUAGCUGUUGGUUUCAAACAGGAUCCGAGAGUGAUGUCUUCCUUGUGGUCUGUUCACUGCUCAGUAUCCCAGUGUCAGUGGCCAAUUCAGUUGGAAGCAACAUGG |
| ex3_5719181_x1 | CM000679.2/58631836-58631641 | 19 | 0.008 | 30.2 | 1 | AAGACTATATTTTGAGGGATAATTTCTATAGTGTGTTTCTCGAGGAGTATATCTGAACGTGTAGAACGCTGGAAACCGCGAGAGGGAGATATTTGTGTTCTCTCACGAGTGGGATAGCAGTGTTTGGTGTTGCGTTATTCTAACTGCTGTTTGCTGTTGGTGACCGTTCTTCTCTAGAGAAGGCAGTCTGAGTAGT |
| ex3_5719272_x1 | CM000675.2/56559624-56559725 | 15 | 0.004 | 30.2 | 1 | ATCCATTTGTAGTTCAGAAACATGACTATTGTCTTTTCAAGCTTATATGAGATCTGGCTCCCTCAATCCTTGCTATGATATCAGTACATTACCTGTCTGATG |
| ex3_5719673_x1 | CM000679.2/48880840-48880967 | 14 | 0.008 | 28.2 | 1 | GTCGCACTTAAACTTAAGACTCTTTTTCTTGCAGCAGTGGTTTAAACAGAGGAACAAACAGGAAGATCTTGTCGCCTTTGAGGGGCTGTGGTTGGGCCCCTCAAAGTGACTTTGGAGGTTCTACGCCA |
| ex3_5720990_x1 | ENST00000579995.1 | 23 | 1E-05 | 38.2 | 1 | AACTATTGAGAACAAAGATGCAACATACCACTCGAGTGTGCAGTGGGGAAGCCAACCTTG |
| ex3_5721740_x1 | CM000682.2/3384229-3384440 | 16 | 0.0005 | 32.2 | 1 | AAGACTATACTTTCAGGGATCATTTCTGTAGTTCATTATTAGAGAGGTCTCTCTGAATGAGTAGAGCACTAGAAACCACAGAAGGAGGCACAGTGGTCTCTCCTGAGCATAAAGCTGGTTTTTGATGTTGCTTTGCTGCAACTGCCATTCGTCACTGATGACTGTTTTCTTCCTCTGGGAGAGTAAGAGGGAGAGGACACTATCTGAGTGTT |
| ex3_5721995_x1 | ENST00000391291.1 | 15 | 0.003 | 30.2 | 1 | CACTAGAAGACAGAATTCACAGAAGTAGCATTTCACCTTTTGCCTTTACAGAAGTATATT |
| ex3_5722055_x1 | ENST00000362412.1 | 14 | 0.008 | 28.2 | 1 | TGGCAAGCCTCCAGCGTGCGTGGGTCTGTGGTGATGTGTGCATTCCTACACTGCTTGCCA |
| ex3_5722506_ | ENST0000039 | 16 | 0.001 | 32.2 | 1 | GTTCATGATAAGTAACATTTCTTCAATTTGACCTGATGTGTATTGAAGAAAACCAGCATC |

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|---|---|---|---|---|---|---|
| x1 | 0968.1 | | | | | |
| ex3_5722886_x1 | AC104581.22/69359-69497 | 22 | 2E-07 | 44.1 | 1 | UGGCUCGAUUUCCUGGGGGGUGGUCUCAGCCCACUCCACCUCCCCUCAGCCGAGCCUAGAGUAGAGGGGCCAGGCAUCCUCCCCAGGGGAGGGGCGUUGAAGCAAGGAGCCUCUCCUGGGCUGUCCUAGCCUCACAUUU |
| ex3_5723525_x1 | CM000672.2/15886358-15886465 | 21 | 0.0002 | 34.2 | 1 | ATCCTCTGGTAGTTTGTAAGTGTGATGATTGAGTATTCACATGCATGCATGTGTGAGATGTGTCACTCCCAAACCTTATTGCAACATGGGCACATTACCCATCTCACA |
| ex3_5723699_x1 | ENST00000364630.1 | 14 | 0.008 | 28.2 | 1 | TGGACCAATGATGATGACTGGTGGTGTATGAGTTAAAGGTGATGAATAGTAAGTGTCTTT |
| ex3_5724033_x1 | CM000675.2/41180087-41179981 | 15 | 0.002 | 30.2 | 1 | ATCCTTTTGTAGTTTATAAGCGTGATGACTGGGGTTTCACGTGCATGTGTGAAATGTGCCTTCCCCAAGCCTTGTTATGACCTCATTGGAACATTACCCCTTTGACA |
| ex3_5724547_x1 | ENST00000391095.1 | 18 | 0.008 | 28.2 | 1 | ATTCTTAAATGAATGATGAAATACCAAAAAGAAAAATAAGCAAAGAACAGATAACAGAAA |
| ex3_5724680_x1 | ENST00000411005.1 | 21 | 5E-07 | 42.1 | 1 | GTGCCGTGATGTATTTGTCAACACATCACTCTGAAGAAAAGTATGTGGTGACTTTCTGTG |
| ex3_5725233_x1 | ENST00000365398.2 | 18 | 0.008 | 28.2 | 1 | AATTGTATACTTTCAGGGATCATTCCATAGGTTGTTACTAGAGAAGTTTTTTTAGATGTG |
| ex3_5725410_x1 | ENST00000516391.1 | 14 | 0.008 | 28.2 | 1 | TGGTCAGGCTGTGGCTGTGGCACAGCACTTGGCTTTCTCCTGGGGGCACTGGGGAGCCAT |
| ex3_5726360_x1 | AC078860.19/16828-16700 | 16 | 0.001 | 32.2 | 1 | AUUUUACAUAGCGCUGCAGAUGUGGCUGCUGUGUCACAUUUGUGUUAUUAGGUGGCAGAGAGAAGAGAGGCUAUGUCUAUGCUCAGUGUUCUGCCCCAUGAACAUUUGAAUGUUUAAUAGUCAGACACU |
| ex3_5726510_x1 | ENST00000364099.1 | 14 | 0.009 | 28.2 | 1 | CGGGTGGTGATGACCCCAACATTCCATCTGAATGCCTGTGCTGAAACCCAGAGGCTGTTT |
| ex3_57 | CM000 | 15 | 0.005 | 30.2 | 1 | ATCCTCCTGTAGTTCCTGAGCGTGACGACGGGGTGTTCGTGCGCGTGTGAGATGTG |

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|---|---|---|---|---|---|---|
| 26864_x1 | 674.2/130815353-130815450 | | | | | CCACCCTCGAACCTCATTACATCAGCACATCACCCACTGGCC |
| ex3_5726868_x1 | ENST00000458890.1 | 14 | 0.008 | 28.2 | 1 | ATCCTTCTTTAGTTCATAAGCATGATGATTGGGTTTTCATGTACATGTGTGAGATGTGCC |
| ex3_5727140_x1 | CM000683.2/9907916-9908010 | 16 | 0.001 | 32.2 | 1 | CTACAATCAATTAAGCCACATGGGACCTGGTGTGCAAGGGCTGCAAACAGCAGCATCCTAGGTAGTGTACAGCAGCCTGTTCCTTGTGTACAACA |
| ex3_5728357_x1 | CM000666.2/168471409-168471539 | 14 | 0.008 | 28.2 | 1 | GGCTTGCTGGTGCTTACCACAGGCTGAATTCTTACACTGACTATATAGAAAAGGAGGTAGAGTAAACCTACCCAATATACCCCTCAGCCCAGGCTCTGTGCCTGATCTATATTGTGAATGTGGGAACATAG |
| ex3_5728615_x1 | ENST00000515935.1 | 16 | 0.001 | 32.2 | 1 | AGGTCATTTTGTAGGGCTTGTGGGCTGTGAAACCAAGAGCTCTTAACGCTATGACCAAAT |
| ex3_5729057_x1 | AC069157.8/65923-65741 | 15 | 0.002 | 30.2 | 1 | AUGGUCUGGGGAAAGGCUCCUGUGUGGCUGAACCUGCCCAGCUGUGGGUGCAGCCUUGUACCAGGCACCCCAACCCUGACCUAAAGUAAAUUCCCAGGAGAAGUCUUUCCUGGGAUUUGAAUUUGCAGUAACAGGUGUGAACAUUCUAGCGCAGUUUGAUCAUAUAUGAUACUAUAAACAGGA |
| ex3_5729866_x1 | CM000665.2/41899253-41899111 | 16 | 0.0007 | 32.2 | 1 | TAGTCAGGCAGGATAATCCCTATCTGTTCCTCCTTTTGGAGGGCAGTAGAATGTGGTAATTGGAGTGGCATAATACTTGATTAATAATTGTGCACTTTCCAATTCATGCTATTATGGCTTCCTGGAGTGGTGTCTTCTCTGAT |
| ex3_5730264_x1 | CM000685.2/122840426-122840645 | 16 | 0.001 | 32.2 | 1 | AAGGCTATACTTTCAGGGATCATTTTTATAGCTTATTACTAGAGGAGTTAATGTGAATGTGTAGAGCACCAGAAACCTTGAGGAGGAGGTGCAGCGTTCTCTCCTGAGCATAAAGCTGGCCCGCAGTATTGTGTTGCCTCACTGCAACTGCCATTTGCCATTGATGATGATTGTTCTCTTTCACTGAGAGAGTAAGAGGACAGGATGCATTCTAACTGGC |
| ex3_57 | CM000 | 14 | 0.009 | 28.2 | 1 | ATCTTTTCGTAGTTCATAAGTGTGATTGGGTTTTCACACGCATGTGTGAGATGTGCTT |

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| 30413_x1 | 677.2/40607312-40607212 |  |  |  |  | TCTTCAAACTTTGTTACGATGTTGGCACATTATACATCTGACA |
| ex3_5730860_x1 | ENST00000607153.1 | 14 | 0.008 | 28.2 | 1 | AGGTGATTTCAAAAAGGACTTGTGGGCTGTGAATCCAGGCACTCAACACTTTGAAAGTCT |
| ex3_5731149_x1 | CM000664.2/53839829-53839733 | 16 | 0.0005 | 32.2 | 1 | ATCCTTTTGTAGTTCGTAAGTGTGATGATTGGGTTTGCACACGCATGTTTGAGATGTGCCTCCCTCAAACCTGTATTAGTCCATTTTCACACAGCTA |
| ex3_5731938_x1 | CM000669.2/37169779-37169678 | 14 | 0.009 | 28.2 | 1 | TTCCTGTTGGTTCCTAAGTGTGATGATTGGGTTTTCACATTCATGTGTGACATGTGCCTCCCTCAAATCTTGTGATGATGTCGGCACGTGACCCATCTGACG |
| ex3_5732385_x1 | AC091826.3/12688-12823 | 14 | 0.008 | 28.2 | 1 | CUGCAGCCAAUUGAGUUGACCGAGCUCUUUUCCUCCUGGGGGCUUGGUGUGCAAUGGCUGCAAACAGCAGAUUCCUUGGUAGUGUAUGCAGCCUGCUUCUUGUAUGGGUUGCCUCUAAGGGACCUUGAAGGCAGCC |
| ex3_5733029_x1 | CM000663.2/8511919-8511795 | 15 | 0.004 | 30.2 | 1 | ACAGACTCACTTTGCACCTGGCTGCAGCCTCATGGGGGTGCTTTTTCCATGTGCCAGGGAAACATTCTGGGGTGTTGTGGCTGCCTGACCTATCAAGGGTGATGCAGCTGTCTGGGGATACAGGA |
| ex3_5733226_x1 | ENST00000459141.1 | 15 | 0.003 | 30.2 | 1 | TCCTCACATGGGATAATTTTTACTTTATTCTCCCTTTGGAGGTCAGGTTAAAACAAGATT |
| ex3_5734026_x1 | ENST00000391082.1 | 17 | 0.0002 | 34.2 | 1 | ATAGCCAATCATTAGTATTCTGAGCTGTAGGAATCAAAGATTTTGATTAGATTCTGTAAC |
| ex3_5735243_x1 | ENST00000363321.1 | 16 | 0.0005 | 32.2 | 1 | TCCACAGGTGAGATCATCCTTACCTGTTCCTTCTTTTGGAGGGCAGAGTTCACGATGACT |
| ex3_57 | CM000 | 15 | 0.004 | 30.2 | 1 | AAGACTGTATTTTCAGGGATCATGTCTATAGGTCATTTCTAGAGAAGCTTCTCTGAAC |

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|---|---|---|---|---|---|---|
| 35306_x1 | 665.2/109019116-109018909 | | | | | ATTTAGGGCACAGGAAACCACGAGGAGGCGCAGCATTCTCTCCTGAGCATGGAACCGGTGTTGCTTCACTGCAACTGGCCGTTCATTTGCTCTTGGTGATCATTCCTCTCTTCCTTTGGGAGAGGAATAGGGAGAGGACACAGTCGAGGA |
| ex3_5735751_x1 | ENST00000390976.1 | 14 | 0.009 | 28.2 | 1 | TTGGATATACGATAATCTCACTCCGACTTAAACTCTCTCACTGATTATTTGATAATAACA |
| ex3_5736528_x1 | ENST00000362600.1 | 14 | 0.008 | 28.2 | 1 | ACACTCTCAGCTATGTATAGTTACACCTGGCTTCACTTGTGTGACTTTTGCAATGGGAAG |
| ex3_5736556_x1 | ENST00000459428.1 | 21 | 5E-07 | 42.1 | 1 | ATCCTTTTGTAGTTCATGAGCATGATGATTGGGTGTTCACGAGTGTGTGTGAGATGTGCC |
| ex3_5737986_x1 | CM000673.2/4756645-4756797 | 14 | 0.008 | 28.2 | 1 | ATTGCACGTTGTTGGAGCTTGGAGTTGGTGCTCTAACTGGCTGATAAACTTGCAAGTGTAGGTAGTATGCTATGTGAGGGGCAAATTTTTCAGTAACATGACAAAGGTCTTTGGCCTAGTGAGTAGAGTTTGACAATAATCCTCGCTGCAAGT |
| ex3_5739058_x1 | CM000672.2/101371952-101371852 | 15 | 0.003 | 30.2 | 1 | ATCCTTTTGTAGTTTGTAAGCATGACGATTGGGTTTTCAGCCTCATGTGTGAGGTGTGCCTCCCTCAAACCTTGTTACATAGGCACATTACCTGTCTGGCA |
| ex3_5739848_x1 | CM000668.2/41832854-41832993 | 15 | 0.005 | 30.2 | 1 | TGCATTGCCATGGTATCTGCACTCAGTAGTTTATTCCTGCTGGGTGTCCAAAGATCAGTGCCATAGAAATTCAGTATCTAGCATCACTGATTTTCTTGGCTTTGTGCTTGTTAAAACTTGGTATTTCTATTGACACAGTA |
| ex3_5739996_x1 | CM000666.2/176098163-176098285 | 18 | 5E-05 | 36.2 | 1 | GCCCTCCTGGTGCTTACCACAGGCTGTGTTCTTACACTGACTGTATAGAATGAGAAGGTAGAATAAATCTACCCCATATGCACTTCAGCCCAACTGAAGTGTGTTGTTCCTGGGCCAAAAAGA |
| ex3_5740379_ | AC093157.2/1 | 15 | 0.006 | 30.2 | 1 | AUGGUCUUGGGAAAGGCUCCUGUGUUGUUGAACCUGCUCAGUUGUGGGUGCAGCCUUGUACCAGGCAGCCCAACCCUGACCUAAAGUAAAUUCCCAGGAAAAGUCUUUC |

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|---|---|---|---|---|---|---|
| x1 | 50637-150823 | | | | | CUAGGUUGUGAAUUUGCAGUAAUAGGUGUGUGCAUCCUAGCAGCAGUUUGAUGAUCAUGUAUGAAACUGCAAACAGGA |
| ex3_5741783_x1 | ENST00000384174.1 | 21 | 0.0002 | 34.2 | 1 | CTGTGAATATTCTCTGTGTTCTGATTATGTGAGAGCCAGGACAGGCTAAACATTTGCTAC |
| ex3_5742997_x1 | CM000682.2/18346898-18346997 | 15 | 0.005 | 30.2 | 1 | ATCCTTTTGTAGTTCGCGTGACGATGGGGTGTTCACACGCATGTGTGAGATGTGCCACCCTTGAACCTTGTTATGATGTCGTCACATTACCCATCCAACA |
| ex3_5743286_x1 | ENST00000362326.1 | 14 | 0.009 | 28.2 | 1 | AGATAACTTCAAAGAGGGCTTGCGGAGCTGCAAAACCAAGAGCTTTTAATGTATTACTGA |
| ex3_5743685_x1 | AJ609445.1/1-126 | 40 | 7E-18 | 79.8 | 1 | UGCACUUAUGUAUGUUUUUGUUUAACGUGGACAAAGACUUACAGAUAGGUGCAAAAAAUAAAUCCUCUUUUGCAACCCAGAACUCAUUGUUCAGUAUGAGUUUUGAUACAUAUAAGAAGGGAUAUU |
| ex3_5743992_x1 | CM000664.2/240289216-240289443 | 16 | 0.001 | 32.2 | 1 | AAGCCTATGCATTCTGGGATCATTTCGATAGCTCGTTCCTGGAGAAGTTTCTCTGAGCACCAGAAGCCACAAGGAGCAGGCCCAGCATTCCCTCCCGAGCAGGCCCAGCGTTCCCTCCCGAGCAGGAGCCGTCGTCTGTGTTGCTTCCCTGCAAGTACCATTCGCCACTGATGACCATTCTTCTGTTCCTCTGGGAGAGTAAGAGGGAGAGGATGTAGTCTGAGAGGT |
| ex3_5744068_x1 | ENST00000627561.1 | 15 | 0.002 | 30.2 | 1 | GCGCTGCCTTTGTACCCCACCGTGCCTCCGCCTGGTGTCTGGGGTCAGGTTGCAGTGCCA |
| ex3_5745265_x1 | CM000674.2/107374747-107374829 | 25 | 0.0002 | 34.2 | 1 | TTTAGGAACAGCCTTTGAGGAAGCCTGTGTTTGTAGGGACATCTGAGAGTGTTGATGAATGCCAACGGCTCTGATGGAAAAAA |
| ex3_5745395_x1 | CM000663.2/44777843-44777912 | 17 | 0.0002 | 34.2 | 1 | TCTCGTGATGAAAACTCTGTCCAGTTCTGCTACTGAAGGGAGAGAGATGAGAGCCTTTTAGGCTGAGGAA |
| ex3_5746101_ | CM000666.2/6 | 15 | 0.002 | 30.2 | 1 | ATTTCATGTTTTAAAGGCATAATGATGTCACTGACTGGCTGATGAAATCCCAAGCGTAGGTAGTATGCTACATGAGGGGTGAGTTTTTTGCTAACACCACAAAGGTCTCTGGCCC |

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|---|---|---|---|---|---|---|
| x1 | 7747236-67747386 | | | | | AATGAGTGGAGTTTGATAGGAGTTCTTGTGACAAGT |
| ex3_5746491_x1 | ENST00000390880.2 | 14 | 0.009 | 28.2 | 1 | AAGACTGTAGTTTCAGGGATTGTTTCTATAGTTTGCTACTAGAGAAGTTTCTCTGAACGT |
| ex3_5747265_x1 | ENST00000578836.1 | 14 | 0.008 | 28.2 | 1 | CTGCAGACAGTTAAGCCAACTGAGTTCCTTTCCTCAGGGAGGCCCAGTGTACAATGGCTG |
| ex3_5748112_x1 | ENST00000364802.1 | 31 | 3E-10 | 54 | 1 | TGGACCAATGATGAGTACCATGGGGTATCTGAAACAGGATTTTTGATTAAACCCATATGC |
| ex3_5748446_x1 | CM000665.2/150077831-150077727 | 15 | 0.005 | 30.2 | 1 | ATCCTTTTGCAATTCATGAGCATGATGATGTGGTATCACACTTACGTGTGAGATGTGCCTCCCTCAAACCTTCTTCCTACAGGTTGGCACTTTGCCCACCTGACA |
| ex3_5748469_x1 | ENST00000364506.1 | 18 | 9E-05 | 36.2 | 1 | CTGCAGCTAGTTAACCTGACTTGTCCACCTCCCTGCTGGGGGCTCAGTGTGCAATGGTTG |
| ex3_5748547_x1 | ENST00000364139.1 | 14 | 0.009 | 28.2 | 1 | TGCTGGAGTGATGAAAAAGTATCTTCAGGTGTGGCTGTGGCCACCTTGGCCACCTGTGTG |
| ex3_5748717_x1 | CM000679.2/51098278-51098174 | 16 | 0.001 | 32.2 | 1 | CTGTATTTGTAGTTCATGAGCATGGTGATTGGGTGTTCATGCAGGTGTGTGAGATATGCCACCCTTGAACCTTGTTACAACACTGGCACATTCTCAGACCTGAAA |
| ex3_5748762_x1 | CM000678.2/29066358-29066255 | 14 | 0.008 | 28.2 | 1 | ATCTTTTTGTAGTTCATAAACGTGATGACTGTGTTTCCATGCTCATGCGTGAGTTGCACCTCCCTCAAACCTTGTTTTGACATTGACACATTATCTGCCTGATG |
| ex3_5748848_x1 | ENST00000365507.1 | 23 | 0.003 | 30.2 | 1 | AGGCCATTTTAAAGAGGGCTCATGGGACTATGAAACCAAGAGCTCTTAATGCTGTGACCA |

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|---|---|---|---|---|---|---|
| ex3_5749319_x1 | CM000669.2/52269569-52269437 | 14 | 0.008 | 28.2 | 1 | TCCATCTGTTTGGCAGACCTGGAGCAGTTAGTGTCTGCTGCTAAGGTTTCCATTACAGATGTGAGAAAAAAAAGTGTTCTTCTGCTTTCTGTCTGTCTCAGTGGCAACCAAGATTGAATGGGGGATATGAGAG |
| ex3_5751738_x1 | CM000674.2/75689305-75689143 | 15 | 0.002 | 30.2 | 1 | TTCCATTTCAGAAAGCCGAGGTCAAAATAATGAGTCCTGGGGAATTCAAACTTGTGTTAAGAAAATGTGTCCCAGTGTGCAATGGCTGCAAACAGCAGCTTCCTTGGTAGTGTATGCAGCCTGTTTGTTGTACGGGTTGCTCTAAAGGGCCTTGGAGACAGTC |
| ex3_5752429_x1 | ENST00000408532.1 | 15 | 0.003 | 30.2 | 1 | GGGGTGTGCTCAGAGCAGGGGGCCTGAAGAATGCTTCTTCTGTTTACAACACACCCAATA |
| ex3_5752930_x1 | CM000676.2/102374319-102374238 | 20 | 2E-06 | 40.1 | 1 | AAGGCTGTGCTTTCTGGGATCATTTCTATAGTTCATTACTAGAGAAGTTTCTCTGAATGTGTAGAGCAAAAGAAAAAATATT |
| ex3_5755737_x1 | CM000685.2/142874063-142873960 | 17 | 0.0001 | 34.2 | 1 | GTAATTTCGTAGTTCATAAGCATGATGATTGGGTGTTCACACACATGCGTGAGATACGCCACCCTCCCACCTTGTTAAGATGTTGGCACATAACCCGTCTTACA |
| ex3_5756298_x1 | CM000677.2/25101575-25101666 | 20 | 2E-06 | 40.1 | 1 | GGATCGATGATGACTTAAAGATTTATCTAATTTAAATCTGAACAAAATGAGTGACCAAAACACTTCTGTACCACTTCTGTGAGCTGAGGTCC |
| ex3_5756741_x1 | ENST00000408571.1 | 16 | 0.001 | 32.2 | 1 | GCAGACTCCCTCAGCATCCAGCGGGTGCTTTTTCGGTCTGCCAGTGAGCATTCCATGGTG |
| ex3_5757759_x1 | AF250841.1/159716-159797 | 14 | 0.009 | 28.2 | 1 | GGGUCGAUGAUGAGAACCUUAUAUUGUUCUGAAGAGAGGUGAUGACUUAAAAAUCAUGCUCAAUAGGAUUACGCUGAGGCCC |

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|---|---|---|---|---|---|---|
| ex3_5758131_x1 | ENST00000363666.1 | 15 | 0.005 | 30.2 | 1 | AAGTCATTTCAAAGAGGGCTTGGATGGCTATGAAACCAGAGCTCTTAAGGTTATAATAAG |
| ex3_5759026_x1 | ENST00000363280.1 | 16 | 0.0007 | 32.2 | 1 | TGAATCAATGGTGACCACTGGTGGCATATAAGTCATGGATGATGAATATGAGAAGAAAAG |
| ex3_5759263_x1 | CM000675.2/39857227-39857135 | 15 | 0.004 | 30.2 | 1 | AGATTGATGATGGCACCCCCATAAAACCATTCCTTAGGAAATCTGAACAAAATGAGTGAAAACTCACTAGTTGTTCTCATTGAGGCTGGGCCC |
| ex3_5759630_x1 | ENST00000364595.1 | 15 | 0.005 | 30.2 | 1 | AGCCTCCTGGTGCTCAGCACAGGATGTGTTCTTACCCTAACCAAATAGAAAGAGTAGGCT |
| ex3_5761199_x1 | AL132709.5/185108-185034 | 35 | 5E-15 | 69.9 | 1 | UGGACCAAUGAUGAGUACCAUGGGGUAUCUGAAACAGGAUUUUGAUUAAACCCAUAUGCAAUUCUGAGGUCCAU |
| ex3_5761207_x1 | ENST00000384000.1 | 14 | 0.008 | 28.2 | 1 | GGATCGATGATGAGTCCCCCATAAAAACATTCCTTGGAAAAGCTGAACAAAATGAGTGAG |
| ex3_5761645_x1 | CM000668.2/73394013-73393913 | 18 | 0.008 | 28.2 | 1 | ATCCTTTTGTAAGTCATAAGTGTGATTGGGTTTTCATGCTCTTGTGTCAAATGTGCCTCCCTCAAACCTTGTTACGAAGTGGGCACACTACCCACCTGATG |
| ex3_5761781_x1 | ENST00000408823.1 | 18 | 6E-05 | 36.2 | 1 | GGGGTGCGCTCAGAGCAGAGGGCCTTAAGAATGGCTCCTCTGTTTACAACACACCCAACA |
| ex3_5762098_x1 | ENST00000516632.1 | 21 | 0.0003 | 34.2 | 1 | AGGGGTGGTCTCCTCCCTTACTCTTTGGGAACTCAGATTGGCCTTATGGTGGCCTCTCTT |
| ex3_5762485_x1 | CM000674.2/103592112-103592243 | 14 | 0.009 | 28.2 | 1 | TCATCAGATGGGATAACTTTTACCTGTTCCTCCTTTTGGAGGTTAGATTCTAATACGATGATTGAAGTTCGTATGATACGTGATTAATGTCTCTGCATAATCAGGACTTGTAACACCTTGATTGCTTCTGAT |

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| ex3_5762661_x1 | CM000670.2/123180525-123180310 | 16 | 0.0006 | 32.2 | 1 | GAGACTATACTCTCAGTGACCAGTTCCTGAGTTCATTACTAGAGAAGTTTCTCTGAACGTGTAGAGCACGGGGAGCCAGGAGGGGAAGGTGAGCGTTTTCTCCTGAGCATGAGGTGGCTTTAGATATTGCTTCATGGCAATTTGGCAACTGCCATGTGCCATTGAAGATGGTTGTTATCTTCCTCTGGAAGAGGAAGAGGACACAGTCTGAGTGGT |
| ex3_5763075_x1 | ENST00000411034.1 | 14 | 0.009 | 28.2 | 1 | AGTTCCTTGGAAGTTAAAGGTTAAGCTTAAGGACTGATTCAAAGGCAGGTGCAAAAAATA |
| ex3_5763126_x1 | CM000678.2/18870269-18870166 | 15 | 0.004 | 30.2 | 1 | ATCCTTTTGTAATACATAAGCATAATGATTGGGTTTTTATTTTCACATGTTTGATATGCCTCCCTCAAATCCTCTTATGATGTCAGCACATTACCCATCTGAGG |
| ex3_5765938_x1 | CM000665.2/10141150-10141247 | 15 | 0.002 | 30.2 | 1 | GACTTTTTGTACTTTATAAGCGTGATGATTGGGTGTTCCCGTGTGAGATGCGCCACCCTCGAACCTTGTTACGACGTCGGCACATTGCGCGTCTGACA |
| ex3_5766165_x1 | CM000664.2/161558544-161558646 | 15 | 0.005 | 30.2 | 1 | ACCCTTTTGTAGTTCATGAGCATGATGATTGGGTGTTCACACACATGTGTGAAATGTGCCACCCTCAACCTTATTATGAGGTCAGCACATTACCCATCTGACA |
| ex3_5766245_x1 | AC002069.2/21330-21191 | 15 | 0.002 | 30.2 | 1 | AUCCAAGGCGAUUCCCUCUCCAAGGGGACAUCUAGUGCCCCUCUCAGGAAAGUAGCAACUUGGAAUAGAAUCUGGCAUGCCUAAGGUCUUUGAGGAACAGGGAUGCUUAUUUCCUCUGCCUUCCUUGGCUGCCUACAUAG |
| ex3_5766252_x1 | CM000681.2/51669405-51669508 | 16 | 0.001 | 32.2 | 1 | ATCCTTTTGTAGTTCATAAGTGTGAGGACTGGGTTTTCAGGCTCGTGTATAAGATGTGCCTCCCTCACTCCTTGTTACAACATCGGCATATTACTCATCTGAAT |
| ex3_5766280_x1 | ENST00000364937.1 | 15 | 0.004 | 30.2 | 1 | TACCCTCTTTCCACTTTGCCAACTGGATGTATGTCTTTACTGGTCATTCCAGTGGGGCAA |

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|---|---|---|---|---|---|---|
| ex3_5767215_x1 | AC020553.4/138195-138051 | 16 | 0.0006 | 32.2 | 1 | AAUCUCCUGGGAUUGUGUCUGGCGAGUGCCCAGUAUUCUGCCACCUUCAGAAGGAAGGGAAAGCAAACCUUCAUGAAAGCAGAGGCAUUCAUUCCAUUCCCAGCUUGCUCCAGAUCUGGCAGUUGGAAGACAUUCUGCAACAAUG |
| ex3_5767841_x1 | ENST00000620104.1 | 15 | 0.002 | 30.2 | 1 | AAAAAAAGTGTCCTTGAGCTTTCTGTCTGATTGTGGCAGCCAAGATTGAATAGAGGA |
| ex3_5768772_x1 | CM000678.2/82454320-82454432 | 15 | 0.006 | 30.2 | 1 | ATCCTTTTGTGGTTCCTAAGTGTGATGATTGGGTTTTCATACTCATGTGTGAAATGTACCTCCCTCAAGCCTTGTTATGATGTGGCGGGCACATTACCCTTACCCATCTGATG |
| ex3_5769232_x1 | AF067020.1/980-1114 | 14 | 0.008 | 28.2 | 1 | CGGCAAACAGUUAUCCCCUUUCUAGUCUGGCUCCUGGGAACUCUAGAAGGGAAUCAGUCUGCCACAAGUAAGUGGGUGAAUUCUUCUGUCCACGUCAGUAUUUUGAUGGGUNGCUUNAAAACUUGCCAGAUAACC |
| ex3_5769288_x1 | ENST00000364263.1 | 15 | 0.003 | 30.2 | 1 | CTATCAAAAGTTACTTTTTGTGGGGTGGAAGTTTTTAAAATAACCTTTACCTACGTGGGC |
| ex3_5770659_x1 | CM000676.2/101145695-101145480 | 14 | 0.008 | 28.2 | 1 | AAGACTATACTTTCAGGGATCATTTCTATAGTTCATTACTAGAGAAGTTTCTCTGAATGTGTAGAGCACCAGAAACTATGAGGAGGAGGCACAGAGTTCTCTCCTGAGCATGAAGCTGGCACTTGGTGTTGCTTTGCTGCAGCTGCCACTTACCATTGGTGATTGTTCTTGTCTTCCTCTTGGAGAGTAAGAGAAAGAGAATGCAGTCTGAGAGGT |
| ex3_5772395_x1 | CM000670.2/103665295-103665394 | 15 | 0.003 | 30.2 | 1 | ATTCTTTCATAGTTCATAAGTGTGATTGGGTGTTTAACGCTCATTTGAGATGTTCCTCCCTCAAACCTTGGTATTATGTTTGCACATTACACATCTGATG |
| ex3_5772451_x1 | ENST00000459301.1 | 15 | 0.002 | 30.2 | 1 | ATCCTTTTGTAGTTCATAGCATGATGATTGGGTGTTCACATGCATGTGTGAAATGTGCCA |
| ex3_5772531_x1 | CM000663.2/112652588-112652 | 20 | 0.0008 | 32.2 | 1 | ATCCTTTTGTAGTTCATAAGTGTGATGGTTGAGTTTTCACATGCATGTGTGAGATGTGCCTCCCTCAAACCTTGTTATGTTGGCACATTACCTGTCTGACA |

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| ex3_5772642_x1 | ENST00000390832.1 | 15 | 0.006 | 30.2 | 1 | TACACTTGTTTATATTTTTGTTTAACTTGTGGACAAAGATTTATAGACAGGTGCAAAAAA |
| ex3_5772971_x1 | CM000664.2/88307360-88307463 | 15 | 0.004 | 30.2 | 1 | ATCCTTTTGCAGCTCATAAGTGTGATGATTGGGTTTTCACACTCATGTGTAAGATGTGTTTCCCTCAAACCTTGCTATGATATCAGCACAGTACCTATCTGACA |
| ex3_5773859_x1 | ENST00000515993.1 | 14 | 0.009 | 28.2 | 1 | TTGCATCTATTTGACAGACTAGAATAATTACTATCTGCTGCTAAGGTTTCCCCTGCAGAT |
| ex3_5774841_x1 | ENST00000391132.2 | 17 | 0.0004 | 34.2 | 1 | AAGACTATACTTTCAGGGATCATTTCTATAGTTTATTACTGGAGAAGTTTCTTTGAATGT |
| ex3_5775429_x1 | CM000664.2/183949436-183949333 | 14 | 0.009 | 28.2 | 1 | ATCTTTTTGTGGTTCACAAGTGTGATGATTAGGTTTTCAGACTCATGTGTGAGACATGCCTTCCTCAAACCTTCTTATGCTATCAGCACATAATCTGGCTGACA |
| ex3_5776340_x1 | CM000668.2/28015568-28015777 | 16 | 0.001 | 32.2 | 1 | AAGACTATACTTTCAGGGATCATTTCTACATTTCCGGGTAATTTCTTTGAACATGTGGAGCACCGGAAACCACCAGGAGGAGGCACAGCATTTTCTCTGGAGCGTGAAGCCAGTTCTTGGTGTTGCTGCATAGCAACTGCCATTTGCCTTTGATGATCATTCTTCTTTTCCTTTAGGAGAATAAGAGGGGGAGAACCCAGTCTGAGGGAT |
| ex3_5776546_x1 | CM000663.2/9082696-9082879 | 14 | 0.009 | 28.2 | 1 | ATGGTCTGGGGAAAGGCTCCTATGTTTTTGAACCTGCCCAGTTGTGGGTGCAATCTTGCACCAGGCAGCCCAACCCTGACCTAAAGTAAATTCCCAGAAGTCTTTCCTGGGTTTTGAATTTGCAGTAACAGCTGTGGGCATTCTAGCAGCAGTTCGATGATCATGTATGGTACTGCAAACAGGA |
| ex3_5776775_x1 | ENST00000384645.1 | 33 | 8E-14 | 65.9 | 1 | GGATCGATGATGACCTCAATACATGCATTCCTTGGAAAGCTGAACAAAATGAGTGAAAAC |
| ex3_5779653_x1 | CM000680.2/2774846 | 14 | 0.009 | 28.2 | 1 | ATCTTGGTGGACTTGACTTTGAACAAGAATGCTTGTTGATGATTGGGTGTTCACGCACATGCGTGAGATATGCCACCCTTGAACCTTGTTACACTGTTGGCACATTACCTGTCTGACC |

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| ex3_5780561_x1 | CM000668.2/71127105-71126893 | 15 | 0.002 | 30.2 | 1 | AAGACTACACTTTCAGGGATCCTTTCTTCAGTTCGTTACTAGAGGTTTCTCTGAATATGTAGAGCACCAGAAACCACTAGAAGGAAATGCAGTGTGCTCTCTCCAGAGTGTGAAGCCAACCCTTGGTGTTGCTTGGCTGCAACTGCCGTTTACCATTGACAATTGTTCTCTTCCTCAAGAAGAATGAGAGGGAAAGAAGGCAGTCTGTGTGAT |
| ex3_5780979_x1 | ENST00000516324.1 | 16 | 0.001 | 32.2 | 1 | CTACAATCAATTAAGCCACATGGGGCCTGGTGTGCAAGGGCTGCAAACAGCATCATCCTA |
| ex3_5781082_x1 | AC012560.5/166192-166076 | 19 | 0.004 | 30.2 | 1 | CCCUAUAUUCGAAAGUUAUCCUGGUCAUUGACAGUGCAGGGAGAGAAACUGCUGAAAGCAUUCCCCCUUGUUUGGAGGGUCCACUCCUGUCCCUUCUAAACUCUGGAGUUUUCCACA |
| ex3_5781240_x1 | CM000674.2/64355865-64355762 | 15 | 0.004 | 30.2 | 1 | ATCCTTTTGAAGTTCATAAGCATGGTGATTGGGTTTTCACACTCATGTGTGAGATGTACCACCCTTAAAGCTTGTTATGATGTAGGCACATTACCCATCTGACA |
| ex3_5781982_x1 | CM000680.2/21450756-21450653 | 15 | 0.006 | 30.2 | 1 | TGTTTAATGACTAAGGAAGGTCCCTGTCCCCGCCAGGGGCTGTGAGCAACACCATGGCTGCCCCAGGGCTGGCCAATTGGGCAGATGCCCAGGGGCTGAGAACA |
| ex3_5782735_x1 | CM000664.2/164746312-164746389 | 15 | 0.002 | 30.2 | 1 | AAGACTAAACTTTCAGGGGTCATTTCTATAGTTCATTACTAGAGAAGTTTCTCTGAATGTGTGGAAAAATAAGTCAAT |
| ex3_5783377_x1 | ENST00000459095.1 | 14 | 0.008 | 28.2 | 1 | TCCTCGCATGGGATAATTTTTACTTTATTCTCCCTTTGGAGGTCAGGTTAAAACATGATT |
| ex3_5784277_x1 | CM000672.2/6661533 | 14 | 0.008 | 28.2 | 1 | ATCTTTTTGTAGTGTAAGTTTGATCATTGGATTTTCATGCTCACGTGTGATACGTGCCTCCTTCAAACCTTGTTATGACACTAGCACATTATTCATATGACA |

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|---|---|---|---|---|---|---|
| | 8-66615237 | | | | | |
| ex3_5784380_x1 | CM000675.2/19875187-19875285 | 15 | 0.003 | 30.2 | 1 | ATCCTTTTGGAGTTCATGAGTGTGAGAACTGGGTGTTCACCCGCATGTGTGAGATGTGCCACCCGCAAACCTTGTTATGACATCAGCACATTACTGAAA |
| ex3_5784751_x1 | CM000676.2/31306520-31306600 | 15 | 0.004 | 30.2 | 1 | AAGACTCTACTTTCAGGGATCATTTCTATAGTTCATTACTAGGGAAGTTTCTCTCAATGTGTAGAGCACAAAAAGTAAAAT |
| ex3_5784769_x1 | CM000676.2/50844625-50844712 | 14 | 0.008 | 28.2 | 1 | TGAGTTTTGGGATGAGACCCTGGAATAAGTGCTGGACACAGTGCCTGAATCAGACTGTGGAAATATTAATGTATTTTATTTTTACTTA |
| ex3_5785262_x1 | CM000664.2/3075772-3075672 | 15 | 0.004 | 30.2 | 1 | ATCCTTTTGTGATTCATAAGCGTGATGATTGGGTTTTCATGCTCATGTGTGAGATATGCCTCTCTCAAGCCTTGTTACAACATCACATTACCTGTCTGATG |
| ex3_5785399_x1 | AC023490.5/121842-121984 | 14 | 0.009 | 28.2 | 1 | UUCUCAGGUCGCCAGUGCAGCCCCAAGAUGAGCCUGCAGUAUUUCCUUACAUGAUCUGGUCCUACUGUGGGCAGCGCUGCUGCCCAGAGCCUGAGAGGAUUAUGAAAACAUGGCAACGGAAGUGAGGCCAGGGGACACAGCA |
| ex3_5785404_x1 | AL591067.35/160576-160455 | 16 | 0.001 | 32.2 | 1 | UGGUCAUUACCAAGGCUUUUAGAAUGCAGUUUCUCAUUUGCUGUGGACAUGACCAUAAAGAAAAAUUCCAAUGAGGUUUUUCAUAUGCUACUUGACUAGCAGUUAACCUGUUGGGAACACGU |
| ex3_5787420_x1 | CM000677.2/58760681- | 16 | 0.001 | 32.2 | 1 | AAGACTATACTTTCAGGGATCATTTGTATAGTTCGTTACTAGAGAATTTTCTCTGAATGTGTAGAACACCAGAAACCACAAGGAGGAGGCGCAGCGTTCTCTCCTGAGCGTGAAGCCGGGTCCTGGTGTTGCTTCACTGCAACTGCCATTTGCCATTGATGATTGTTCTTCTCTTCCTTTGGGAGAGTAAGAGGCAAAGGATGCAGTCTGAATGGT |

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|---|---|---|---|---|---|---|
| | 58760466 | | | | | |
| ex3_5787442_x1 | CM000679.2/18943999-18944073 | 15 | 0.003 | 30.2 | 1 | TTCTTACAAATCTAAATGTGCTTTGATGCAAGTATATTTGAATCCCTTTCCATCTGATAACTGAGCAAAATAATA |
| ex3_5787872_x1 | CM000663.2/15910897-15910997 | 14 | 0.009 | 28.2 | 1 | ATCCTTTTGTGGTTCATAAGCATGATGATTGGGTTTTCATGCTGTGTGAGGTGTGCCTCCCTCAGACCTTGTTATGACATTAGTATATTACCTGTCTGACA |
| ex3_5788367_x1 | AC009228.4/59361-59234 | 16 | 0.0009 | 32.2 | 1 | UGGCAUGAUUUCCUGCAGGUUGAGCUCAGCCAAGUACCACCCCUCAGUAAGCCUAGAGUAGAGGGGCCUGACAUCCUUUCCUUAAAUUAAACAAGGAGCCUUAUCCAGGUUGUCCUAGUCUCAUACUU |
| ex3_5788494_x1 | ENST00000384771.1 | 15 | 0.005 | 30.2 | 1 | GCATGGTAGTGGGTTCATTGGGGGCCCTTCTCTGTGGGCCTCATAGCGTACCCATGCCAG |
| ex3_5790276_x1 | CM000677.2/55955804-55955701 | 15 | 0.005 | 30.2 | 1 | ATCCTTTTGTAGTTTTTAAGTGTCATGATGGGGTGTCCATGCACATGTGTAAGATGTGCCACTCTTGAAGCTTGTTACAACATGGGCAGATTACCAATCTCACA |
| ex3_5790404_x1 | CM000669.2/23895134-23895028 | 14 | 0.008 | 28.2 | 1 | ATCCTTTTGTGGTTCAAGAGCGTGATGATTGGGTTTTCACGCTCATGTGTGAGAAGTGCCTCCCTCGAATCTTGTTATGACTCCATGTTGGCAAATTATGTCTGAAG |
| ex3_5790544_x1 | CM000666.2/79843102-79843228 | 15 | 0.003 | 30.2 | 1 | GACTTCTCACTGAGCTTCTTTCTGTCTGTTGCTGGCAGCTTATGGATTCATATGAGCAGAGAGAATCACAGAACTAGCATTACTTTTGTCTTTACAGGAGTATATTTGGCTGTCTTGTGAGATATTA |
| ex3_57 | ENST0 | 15 | 0.008 | 30.2 | 1 | ATAAACAAAAGAACACCAATTGTGCTCCTTTCCTCCTGGGGCCCAGTGTGCAATGGC |

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|---|---|---|---|---|---|---|
| 91198_x1 | 0000365509.1 | | | | | TGC |
| ex3_5792609_x1 | ENST00000516741.1 | 14 | 0.009 | 28.2 | 1 | AGGTCATTTCAAAGAAGGTTCACGTGGCTGTGAGACCAAGAACGCTTAATGCTGTTACCA |
| ex3_5794453_x1 | ENST00000362705.1 | 23 | 4E-08 | 46.1 | 1 | TGGACCTATGATGATGACTGGTGGCGTATGAGTCATTGACGGTGAATACAGGTCTGGAAG |
| ex3_5795125_x1 | ENST00000362520.1 | 15 | 0.003 | 30.2 | 1 | TGAACTAGTGGTGATGGCTTGTGGCATATTTAGTCACAGATGATGAATAAATACATGCCT |
| ex3_5796057_x1 | ENST00000516475.1 | 15 | 0.003 | 30.2 | 1 | TCCACATTCTAAAAACAATCCACTCTGTGAGGTGCAACAGTTAATAGCATGTTAGAGTTC |
| ex3_5796325_x1 | CM000663.2/12409251-12409168 | 15 | 0.005 | 30.2 | 1 | AAGACTATGCTTTCAGGGATCATTTCTACAGTTTGTTACTAGAGAATTTCTCTGAACATGTAGTTTTCAAAAAAAAATTAGATT |
| ex3_5796805_x1 | ENST00000516241.1 | 14 | 0.008 | 28.2 | 1 | ATGCATCTATTTGACAGACCTGGAACAGTTATTTTTTGCCACTAAGATTTCTACTACAGA |
| ex3_5796864_x1 | CM000665.2/47466349-47466448 | 16 | 0.0008 | 32.2 | 1 | ATCTTCTGTAGTTCATCAGTATGATACCTGGGTGTTTCACACACATGTGAGATGAGTCATTCTTGAACCTTGTTATGATGTCAGCACTACCCATCTAACC |
| ex3_5798067_x1 | ENST00000362342.1 | 15 | 0.004 | 30.2 | 1 | CCAACATGGATAGTCTGGGAGGTCACTCTCCCCAGGCTCTGTGGAAGTGGTGTTGGGGAG |
| ex3_5798322_x1 | CM000680.2/3424349-3424259 | 14 | 0.008 | 28.2 | 1 | ATCCTTTGTAGTTAATAACATGATGATTGTGTTTTCACACTCTCGTGTGAGATATGCCTCCCTCAAATCTTGGCACATTACCCATCTGACA |
| ex3_5799681_ | ENST0000038 | 15 | 0.002 | 30.2 | 1 | GGATCGATGATGACTTTTATACATGCATTCCTTGGAAAGCTGAACAAAATGAGTGAAAAC |

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|---|---|---|---|---|---|---|
| x1 | 4549.1 |  |  |  |  |  |
| ex3_5800284_x1 | ENST00000516178.1 | 15 | 0.003 | 30.2 | 1 | GTGTGGGATGTGTGTCTAAACACGACAATCTGAAGACAGAGGTGTAGAAATTGGCAAGTT |
| ex3_5800831_x1 | AL132709.5/169743-169666 | 15 | 0.004 | 30.2 | 1 | GGGACCAAUGAUAAUGACUGUUGGGGUAUGAGUCAGUGAGGUUGAAUAACAGUUUGUAUCUGGAAAUCUGAGGUCCAA |
| ex3_5801402_x1 | CM000663.2/51724896-51724775 | 19 | 0.007 | 30.2 | 1 | GTGCCCTTTTAAGGTTGACGCAGTGCTTTAAGGGGCTAACACAGAAGGGTAAAGGAAGTCTCCATAAACCCCAGAGAAGAGATTGTAAAGCTCCTCTTTAGAACCTTTCTGGAGTCACACCT |
| ex3_5801827_x1 | CM000669.2/152069005-152068900 | 20 | 0.002 | 32.2 | 1 | ATTCTTTTGTAGTTCATAAGTGTGGTGACTGGGTTTTCATGTGCTTGTGGGAAATATGCCTCCCTCAAATCTTATTACGAAGTCAGCCCATTTTACTTGTCTGACA |
| ex3_5802130_x1 | CM000679.2/44303998-44304203 | 20 | 0.001 | 32.2 | 1 | GGGCACAGTCTCATTGTTTCTATAGTTTATTACCAGAAAAGTTTCTCAGAATGTGTAGAGCACTGGAAACCATGAGGAAGAGGCATAGCGTTCTCTCTTGAGCATCAAGTTGGCTGTTGGTGTTGCTTTGCTGCAAACGCCATTTGTCATTGTCTTCCTTGTCTTCCTTTAGGAGAGTAAGAGGGAGAGGACACAGTCTGGGTAGT |
| ex3_5802263_x1 | ENST00000611947.1 | 15 | 0.003 | 30.2 | 1 | AAGCCTATGCATTCTGGGATCATTTCGATAGCTCGTTCCTGGAGAAGTTTCTCTGAGCAC |
| ex3_5802482_x1 | CM000673.2/115627185-115627082 | 14 | 0.008 | 28.2 | 1 | GTCCTTTTGTAGTTCATAAGCGAGATGATTGGGTGTTCAGGCACATGTGTGAGATGTGCCTCCTTCAAACCTTGTTACAACGTCAGCACATTACCCGCCTGACA |
| ex3_5802973_x1 | ENST00000384004.1 | 15 | 0.004 | 30.2 | 1 | TTCTAAAGTGTTGAGTTCAGTCCAGGGTGGATCCCCTGCTCTGTTAATTGAACTGGAACA |
| ex3_5803452_ | ENST0000036 | 21 | 5E-07 | 42.1 | 1 | TGGACCAATGATGACAAATACCGGCGTATGAGTCTTGGATGATGAATAATACGTGTCTGG |

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|---|---|---|---|---|---|---|
| x1 | 5400.1 |  |  |  |  |  |
| ex3_5804481_x1 | ENST00000365087.1 | 16 | 0.0006 | 32.2 | 1 | AGGTCACTTCAAAGAGGGCTTGTGGGGCTGTGAAACCAAGAGGTCTTAACAGTATGACCA |
| ex3_5804516_x1 | CM000667.2/133850957-133850857 | 15 | 0.004 | 30.2 | 1 | ATCTTTTGTGTTTCCTAAGTGTGATGATTGAGTTTTCAAACTCACTTGAGGTGTGCCTCCCTTAAACCTCATTATGACATCAGCATATTACCCATCTGACG |
| ex3_5804850_x1 | CM000665.2/187423315-187423419 | 14 | 0.009 | 28.2 | 1 | ATCCTTTTGCAGTTCATGAACATGATGATTGGGTGTTCATGCTCATGTGTGAGATGTGCCACCCTCTGAATCTTGTTATGACATCAGCACATTATCCATCTGACC |
| ex3_5805836_x1 | AL049840.8/49457-49533 | 21 | 7E-07 | 42.1 | 1 | AUUGUUACAUUGAUAAAAUCAAAUCACCAUCUUUUAGCUAAGCUUGUGCUGGAUUUGCUUUUUUUCUGAUAAAGAUG |
| ex3_5806011_x1 | CM000667.2/84315605-84315690 | 15 | 0.003 | 30.2 | 1 | AAGACTATACTTTCAGGGATCATTTCTATGGTTCATTACTAGGGAAGTTTCCCTGAATGTGTAGAGCACCGAAAACACTCTTCAGG |
| ex3_5806379_x1 | CM000685.2/17044511-17044380 | 15 | 0.003 | 30.2 | 1 | GGCGGCCCTTATCACAGCTGCAGCTGCTTCCACATAGCTGCTGCGGTCAAAAAGGAGCCCAGAGTCAGTTTCCTTGACCATCACCATTCTGTTTGCTATAAGTGATCTGTAACATTTTGCGAAAATACAGTT |
| ex3_5806981_x1 | CM000671.2/114565352-114565250 | 15 | 0.002 | 30.2 | 1 | ATCCTTTTGTAGTTCATAAGGATGATGACTGAGTGTTCACACTCGTGTGTGAGATGTGCCACCCTCAGACCTTGAAATCTTCAGTCACTCTTGTTAAGTGAAC |
| ex3_5807236_ | CM000671.2/1 | 16 | 0.0007 | 32.2 | 1 | ATGCATCTATTTGACAGCCCCAGAGCAGTTACTGTCTGCTAAGGTTTCCACTACAGATGCAAAAACAGCGTCCCTGTGCTTTCTCTCTGACTGCTTTCTGCTTTCTGTGGCAGCC |

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|---|---|---|---|---|---|---|
| x1 | 31021306-131021168 | | | | | GAGATTGAATAGAGGAATCCAGGA |
| ex3_5807293_x1 | CM000672.2/16398759-16398655 | 15 | 0.002 | 30.2 | 1 | ATCCTTTTGTAGTTCATGAGCATGACCATCGAGTGTTTACATGCATGTGTGAGATATGACACCTTCTGAACCTTGTTACGGAGTTGGCATGTTACCCATCTAACC |
| ex3_5807810_x1 | ENST00000516831.1 | 15 | 0.006 | 30.2 | 1 | TAGTGTGGAACTGTCTACTCCTCATTCCTGTGGAAGCAGGAATACATTCATAACATGCTC |
| ex3_5808545_x1 | ENST00000516965.1 | 15 | 0.005 | 30.2 | 1 | TTACCTTGAATACATACAGATACTTCCTGTTACTCTCTAGCTTAAGAACCTTTAATGTGG |
| ex3_5808602_x1 | ENST00000363205.1 | 14 | 0.009 | 28.2 | 1 | AGGATATATCAAAGAGACTTTCTGGGGCTGGGAAACCAGGATCTCGTAATGCTATGACCA |
| ex3_5808885_x1 | ENST00000516634.1 | 14 | 0.009 | 28.2 | 1 | GATTCACAGCAGAAAGACAGCTAATCTAGTGTGCTAGCTGTAGAGCAAGTTTGCTGCAAA |
| ex3_5809911_x1 | CM000663.2/215630117-215630026 | 14 | 0.008 | 28.2 | 1 | AGATCATTGATGACTTCCATATATCCATTCCTTGGAAAGCTGAACAACATGAGTGAAAACTCTACTGAAAAAAGAAAAGAAATGGGAGGCCG |
| ex3_5811206_x1 | CM000681.2/38349110-38349009 | 15 | 0.003 | 30.2 | 1 | ATCTTCTTGTAGTTTCTACGTGTGGCGATTGGGTTTTCACCGTCATCTGAGATGTGTCTCCCTCAAGCCTTGTTATGGTGTCGGCCCATTACCTGTCTGACA |
| ex3_5811793_x1 | ENST00000363915.1 | 21 | 5E-07 | 42.1 | 1 | TCCCAATGATGAGTTGCCATGCTAATACTGAGCCACCAGGTAGGGCAGTGTTGCCCTGGT |
| ex3_5811980_x1 | CM000683.2/3934545 | 14 | 0.008 | 28.2 | 1 | ATCCTTTCATAAGCTTGAAGATTGGGGTTTCACGCTCATGTGTGAGATGTCCCTCTCTCAAACCTTACTATGAAGTCAGCACCACTGGGCACATTACTTGTCTGACA |

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|---|---|---|---|---|---|---|
| | 7-39345351 | | | | | |
| ex3_5812322_x1 | ENST00000517219.1 | 14 | 0.009 | 28.2 | 1 | TCCATCTGTTTGGCAGACCTGGAGCAGTTAGTGTCTGCTGCTAAGGTTTCCATTACAGAT |
| ex3_5813648_x1 | AP000577.5/69612-69474 | 18 | 8E-05 | 36.2 | 1 | GAGCUUCCAGGAUCACCCCUGCAGAGUGGCUAAUAUUCUGCCAGCUUCGGAAAGGGAGGGGAAGCAAGCCUGGCAGAGGCACCCAUUCCAUUCCCAGCUUGCUUAGUAGCUGGCCAUGGGAAGACACUGUGCAACACUG |
| ex3_5813711_x1 | ENST00000384151.1 | 17 | 0.0003 | 34.2 | 1 | GGCCTTTTGGTGCTTACCACAGACTGTGCTCTTTCACTGACTGAATAGAGAGAGGAGGCA |
| ex3_5813849_x1 | ENST00000364790.1 | 15 | 0.002 | 30.2 | 1 | CTTCCCATTTATTTGCTGGTATAGTCTCACAATGATATGGCCAGTTATACTTATGGGAAA |
| ex3_5814153_x1 | ENST00000363668.2 | 20 | 3E-06 | 40.1 | 1 | AAGACTATACTTTCAGGGATCATTTCTATAGTTAGTTGCTAGAGAAGTTTCTCTGGACAT |
| ex3_5814274_x1 | ENST00000459350.1 | 14 | 0.009 | 28.2 | 1 | ATCCTTTCACAGTTCATAAGAGTGATGACTGGGTTTTCACTTTCATGTGTAAGATGTGCC |
| ex3_5814840_x1 | ENST00000384486.2 | 15 | 0.006 | 30.2 | 1 | AAGACTATACTCTCAGGAATCATTTCTATAGTTTTTTACTAGAGAAATTTCTCTGAACGT |
| ex3_5815998_x1 | ENST00000390904.1 | 14 | 0.008 | 28.2 | 1 | AAAGCAAGCTGGAATTACAGTGCTTCATTTTGTGAAATACTAAATACCATCATTATGCTG |
| ex3_5816479_x1 | CM000677.2/25079058-25079149 | 14 | 0.008 | 28.2 | 1 | GGACCAATGATGACTTCCATACATGCATTCCTTGGAAAGCTGAACAAAATGAGTGGGAACTCTGTACTATCATCTTAGTTGAACTGAGGTCC |
| ex3_5816619_x1 | ENST00000364394.1 | 28 | 6E-11 | 56 | 1 | AATGAATGATGACAAAATGTTTCAGTCCCAAATGATACATACTGATTATACCATTATATT |
| ex3_5816750_x1 | CM000668.2/4643762 | 15 | 0.005 | 30.2 | 1 | ATCCTTTTGTAGTTCATAAGCTGATGGTTGGGTTTTCACGCTCATGTGTGAGATGTGTTCCTTCATATCTGTCAACACACTACCGGGCTGTTG |

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|---|---|---|---|---|---|---|
| | -4643854 | | | | | |
| ex3_5817333_x1 | CM000686.2/26247384-26247521 | 14 | 0.008 | 28.2 | 1 | GATCAGCTTTTCAAAGGTTTACTGCATTTTACCCTCCCTGATGGGGCTCAGTGTGCGCAGCTGGAAAAAGTAGATGCCCTGGTTATGCATGCAGCTCATTTGTTGTACATGTTGCTTTAAGGGACCTTGAAGACTCTT |
| ex3_5817449_x1 | CM000663.2/219962652-219962865 | 14 | 0.008 | 28.2 | 1 | AAGACTTTATCCCCCCACCCCGCAAAGAAAAGGAAGAAGAAGAGTTTTTAAATGGCGCAGCCCTGGAATCCACAAGGAGGAGGTTCAGTATTCTCTCCTGAGCGTGAAGTTGGTTCTTGGCATTGCTTCACTGCAACTGCTATTTGCCATTGATGATTGTTCTTCTCTTCCTCTGAGAGAGTAAGAGGGAGAGGATGCATGCAGTCTGAGTGGT |
| ex3_5817839_x1 | CM000678.2/50151731-50151642 | 14 | 0.008 | 28.2 | 1 | AAGACCCTTCAGCTGCAAACAACAGCTTCCTTGGTAGTTTATGCAGCCTGTTTCTTGTATGGGCTGCTCTAAGGGACCATGGAGACAGGC |
| ex3_5819324_x1 | ENST00000516029.1 | 14 | 0.009 | 28.2 | 1 | CTTCTGCTAAGGTTTACACTATAGATGCAGGAAAAAAAATGTCCTCACACTGTCTGTCTG |
| ex3_5819516_x1 | AJ609440.1/1-129 | 23 | 4E-08 | 46.1 | 1 | CUGGCACUUUCACAGUUCCUUCCCCAGGCAGUGGGGCCAGGAUUUGGUAGCUGGUGCUGAGAGAAAACCCUUGAUUGUAUUCUUGCCCUGGGAUUAUACCAGUGGCAACUGUCACUCAAUGGGACAGUG |
| ex3_5819691_x1 | CM000678.2/28672336-28672233 | 18 | 0.009 | 28.2 | 1 | ATCTTTTTGTAGTTCATAAACGTGATGACTGTGTTTTCATGCTCATGCGTGAGTTGCACCTCCCTCAAACCTTGTTTTGACATTGACACATTATCTGCCTGATG |
| ex3_5821579_x1 | CM000664.2/69912695-69912799 | 14 | 0.008 | 28.2 | 1 | ATCCTTTTATAGTTCATAAACATAGTAATTAGGTGTTCCCATTGCATGTATGAGATGTGCCTCCCAAAGAGCTTGTTACAGCGTTAGTACATTACCTGTCTGATA |
| ex3_58 | ENST0 | 14 | 0.009 | 28.2 | 1 | AAGACTACACTTTCAGGGATCCTTTCTTCAGTTCGTTACTAGAGGTTTCTCTGAATAT |

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|---|---|---|---|---|---|---|
| 21706_x1 | 0000408418.2 | | | | | GT |
| ex3_5821750_x1 | ENST00000458806.1 | 15 | 0.004 | 30.2 | 1 | TTGCATGTGGTAATGTCTGCTCTTCATTCCTTTGGGAGCAGAAATACATCCATAACACGC |
| ex3_5822125_x1 | CM000667.2/168033205-168033091 | 16 | 0.001 | 32.2 | 1 | AGCACTTGTGTTTGCTTTTGTTTGACTTGTGGACAAAGACTTATAGTAGACAGGCACGAAAAAATAAATCCTCTTTTGCAACCCATGAGTTGTTATACATGCAAGAAGGAATATT |
| ex3_5822184_x1 | ENST00000363528.1 | 14 | 0.008 | 28.2 | 1 | CAGTCAGTGTCGAGAACCTTATATTGTTCTGAAGAGAGGTGGTGACTTAAAAATCATGCT |
| ex3_5822343_x1 | ENST00000459126.1 | 15 | 0.004 | 30.2 | 1 | GTGTGATGAAATCACCCCAAATAGCTGGAATTACCAGCAGATTGTGTAGTGGTGAACCTA |
| ex3_5822702_x1 | CM000680.2/7995570-7995785 | 19 | 0.005 | 30.2 | 1 | AAGACTATACTTTCAGGGATCATTTCTATAGTTCATTACTAGAGAAGTTTCTCTGAATGGGTAGAGCACTGGAAACCATGAGGAGGAGGCACAGTGTTCTCTCCTGAGCATGAAGCTGACTCTTGGTGTTGCTTCACTGCACCTGCCATGTGCCACTGATGATTGTTCTTGTCTTCCTCTGGGAGAGTAAGACGGAGAGCATGCAGTCTGAGTGCT |
| ex3_5825207_x1 | CM000679.2/1616295-1616192 | 14 | 0.009 | 28.2 | 1 | ATCCCTTTGTAGTTCATAAGCATGATAATTGGGGTTTCCCTCGCATGTGTGAGACATGCTTCCCTCAAACCTTGTTACGAAGCTGGCACAGTATCCATCTGATG |
| ex3_5825327_x1 | CM000682.2/8831186-8831393 | 14 | 0.008 | 28.2 | 1 | CCAATGTGGATACACCCAGGAGGTCACTCTCTCCCCAGGCTGTGTCCAAGTAGCATAGGGGAGCACAGGGCTCTGTCCCCATGATGTACTGTCCTTTTCCATGACATTGGAGATGAAGCTGGACCTCAACTCTGCACATGCATATTCCTACAACTTCTCAGAGTCCTGTGGATAATGACGGAGGAGAGAAACCATGCAGGAAACAGCC |
| ex3_5825406_x1 | CM000670.2/42043575-420435 | 14 | 0.009 | 28.2 | 1 | TGGACCAGTGATAAGAATGTGTTAGGAACCAAAGATTAGGAGTAATCTAGTTTTGTATATCTGAGGTCCATT |

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| ex3_5825474_x1 | CM000684.2/28232823-28232756 | 15 | 0.003 | 30.2 | 1 | CAGCCCTAAAATGGAAAAAATTTAAAATTACTTAGACAATGTGATGTCATCAAAGGAACCCTAAGTAA |
| ex3_5826044_x1 | ENST00000364528.1 | 14 | 0.008 | 28.2 | 1 | TCGTCAGGTGGGAGAATTCTTACATGTTCCTCCTTTTGCAAGGCAGATTAGAACATGATG |
| ex3_5826727_x1 | ENST00000390863.2 | 15 | 0.004 | 30.2 | 1 | AAGATTATATTTTCAGGGATCATTTCTATAGTTTGTCACTAGGGAAGTTCCTCTGAATGT |
| ex3_5827757_x1 | CM000663.2/151527938-151527831 | 14 | 0.009 | 28.2 | 1 | TATAGTGTGGCCATGGGATCTCCAACTGCATGCAAGAGCAACCTGGAGAGACTTTGACAGAACAGGTCAGCACAATCCCTGCAGCTGCCACTTGTCTTTCGTGTGTGT |
| ex3_5827901_x1 | AC087763.10/29854-29985 | 15 | 0.002 | 30.2 | 1 | CUGCAGCCAAUUGAGCUGAUGGAGUUCCUUUCCUCCUGGGGCCCAGUGUGCAAAAGCUGCAAACAGCAGCUUCCUUGGUAGUGUACGCAGCCUGUUUCUUAUAUGGGUUGCUCUAAGGGACCUUGGAGACAG |
| ex3_5829919_x1 | CM000674.2/120048430-120048528 | 14 | 0.009 | 28.2 | 1 | ATCTTTTTGTAGTTCATAAACATGATGATTGGGCTTTCACACTTGTTTGAGGTGTGTCTTCCTCAAACCTTATAGTGTCAGCACATTGCCTGTCTGATG |
| ex3_5830278_x1 | CM000670.2/56121352-56121242 | 14 | 0.009 | 28.2 | 1 | ACCAAGATTCAAGTCACATTCCGAGTGTCCCGGTGTGCTAGGGCACTTGCAGAGAATCTGCTGGTCTTGATTCACTGGTGGGGGCAATCGGTGCCCAGATTAGGAACATGC |
| ex3_5832426_x1 | ENST00000516421.1 | 18 | 0.009 | 28.2 | 1 | TTTCCAGAATTACGGGTTTGACAAACCAAACATTCATTATTTTCCTCTCTAGAGAGAGTT |
| ex3_5832519_ | ENST0000060 | 16 | 0.0005 | 32.2 | 1 | TGTGTGCTCCACAAGGAGCACATTTTGCACTAACACCACAAGAGTCTGGCTCAGTGAATG |

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|---|---|---|---|---|---|---|
| x1 | 6322.1 | | | | | |
| ex3_5833900_x1 | CM000670.2/43378298-43378510 | 15 | 0.003 | 30.2 | 1 | AATGCTATACTTTCATGGGTCATTTCTATAGTTTGTTATTAGAGAAGTTTCTCTGAATGTGTTGAGCACCAGAAACCACGAGGAGATGCAGCATTCTCTCCTGAACGGGAAGCCAGCTTTTGGCATTGCTTTGATGCAACTACCATTTGCCATTGATGGCAATGCATCGCTTCCTCTAGGAGTGTAAGAGGGAGTGGATGCAGTCAGAGTGGT |
| ex3_5834004_x1 | AC064836.7/30066-30155 | 23 | 6E-08 | 46.1 | 1 | UGAUGGCAAUGAUGAUUUUUACACUUAUUGUUGUUCACCUGAUAACAUAAAUAUGAGGGUGUUCAGUCACUACCUCAUCUGAUGCCAUCA |
| ex3_5834060_x1 | ENST00000408133.1 | 15 | 0.002 | 30.2 | 1 | AGGGTTTGCTTAGGGCAGGGAGGTTGAAGAGTGGCTCCTCTGTTTACAATACACCAAACA |
| ex3_5834405_x1 | CM000684.2/36948480-36948561 | 19 | 0.004 | 30.2 | 1 | ATTATTTTGTAATTCATAGACGTGATGATTGGGTGTTCCTATGCATGTGTGAGATGTGCCACCTTCAAACCTTGTTACTGTA |
| ex3_5837189_x1 | ENST00000364359.1 | 19 | 1E-05 | 38.2 | 1 | AGGTTGGATTCATTGTTACAATATAGCTGTGAAGTGCTATGTTGTCCTTGCCCCCTGCTC |
| ex3_5837646_x1 | ENST00000384159.1 | 14 | 0.009 | 28.2 | 1 | CTGCAGTCAATTAAGCCAGCTGTACTCCTTTCCTCACAGGGGCTCGGTGTAATGGCTGCA |
| ex3_5837856_x1 | CM000680.2/32094504-32094606 | 14 | 0.008 | 28.2 | 1 | ATCCTTTTGCGGTTCATAGTGTGATGATTGAGTGTTCACAGGCATGTGTGAGATATGCCATCCTCAAACCTTGTTACAGGGTCAGCACATTACCCATCTGACA |
| ex3_5837898_x1 | CM000677.2/24893747-24893848 | 16 | 0.0006 | 32.2 | 1 | ATTCTTTCATGGTTCTTTATCGGTATGGTGATAGGGTTTTCATATTCATGTGTGAGATGTGCCTCCCTCAGTCCTTGTTATGACATCATTACGTGTCTGACA |
| ex3_5837914_ | ENST0000039 | 15 | 0.004 | 30.2 | 1 | TTCTTATTGAGCTCCTTTCTGTCTACTGGTGGCAGTCTATGGATTTGCACAAGACAAAAC |

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|---|---|---|---|---|---|---|
| x1 | 1278.1 | | | | | |
| ex3_5838718_x1 | CM000672.2/26868165-26868264 | 14 | 0.009 | 28.2 | 1 | ATCCTTTCATAGTTCATAAGCATGATTGGGTTTTCACACTATGTGTAAGATGTGCCTCCATCAAACCTTGTTAGGATGTTGGCATATCACCCATCTGATG |
| ex3_5838988_x1 | CM000668.2/149594625-149594759 | 15 | 0.003 | 30.2 | 1 | TAGGCCCTGAATCAAGAAACGTGATGGTTTGCCATTGTAGCTATTGGTTTCAAACAAGAGCCAAGATTGATGTCTTTCTTATGGTCTGTTGGCTAATCCCAGTATGAATGGCCAGTTCAGCTAGAAGAAACAAAC |
| ex3_5840365_x1 | AF250841.1/18857-18939 | 14 | 0.008 | 28.2 | 1 | GGAUCGAUGAUGACUUAAAAAAAUGGAAACCUUGGAAAUCUGAACAAAAUGAGUGACCAAGACACUUCUGUGAGCUGAGGUCC |
| ex3_5840873_x1 | CM000666.2/158700691-158700909 | 26 | 6E-05 | 36.2 | 1 | AAGACTATACTTTCAGGGATCATTTCTCTAGTTCAATACTACAGAAGTTTCTCTGAAGGTGTAGCAAGCACCAGAAACCACGAGGAAAGTGCAGTATTCTCTCCCAAGTGTGATGCCGCCCGTCTCTTGATGTTGCTTTGCTCAGCTGCCATTCGGCATTGATGATTGTTTTATCCTTCCTTAGGAAGAGTGAGAGGGAAAGGATGCAGTCCAAGTGGC |
| ex3_5841028_x1 | CM000665.2/171693211-171693314 | 15 | 0.002 | 30.2 | 1 | ATCCTTTTGTAGTTCATGAGCATGATGATTGTGTGTTCACACACAAGCGTGAGATGTGCCACACTCGAACCTTCTTACGACGTCTGCACATTACCCATCTCATC |
| ex3_5841284_x1 | ENST00000516773.1 | 18 | 7E-05 | 36.2 | 1 | ATGCATCTATTTGACAGCCCCAGAGCAGTTACTGTCTGCTAAGGTTTCCACTACAGATGC |
| ex3_5841977_x1 | CM000679.2/12077168-12077077 | 15 | 0.005 | 30.2 | 1 | AAGACTATACTTTCAGGGGTCATTTCTATAGTTCATTACTAGAGAAGTTTCTCTGAACATGCAGAGCACCTAAGATGTTTCCGTTCTCCTGA |
| ex3_5842159_ | CM000672.2/6 | 16 | 0.0008 | 32.2 | 1 | ATCTGTTTGTAGTCATAATTGTGATGGTTGAGTTTTCATGTGTGAGATGTGTATCACTCAAGCCTTTTTACAATGTCGGTATATTGCCGGGTGCGGTG |

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|---|---|---|---|---|---|---|
| x1 | 8712958-68713055 | | | | | |
| ex3_5843287_x1 | CM000685.2/153351473-153351576 | 14 | 0.009 | 28.2 | 1 | ATCCTTTTGTAGTTCATACACATGACAATTGGGTTTCCACGCACGTGCATGAGATGTTCCTCCTTCAAACCTTGTTACTATGTCAGCACATTAACTGCCTGGCA |
| ex3_5843404_x1 | ENST00000383865.1 | 15 | 0.006 | 30.2 | 1 | GTGGAGGTCTATTCCAATGGGGCTTTTCCTGTAGCTGCATGTTGTTGGAAACTCCTCATA |
| ex3_5844058_x1 | ENST00000363091.1 | 20 | 2E-06 | 40.1 | 1 | CTGAGTCCATGATGATTTCAAGTTATCCCTGTCTGAAGGCAAAGAAAGGCCTTTCTGTGT |
| ex3_5844478_x1 | AL161747.5/13638-13529 | 22 | 2E-07 | 44.1 | 1 | UCCCAAUGAUGAGUUGCCAUGCUAAUACUGAGCCACCAGGUAGGGCAGUGUUGCCCUGGUUUGGGUGCCAGUGAGUUUAACAAAACUUCUCACAUGAAGAUCUGAGGGGC |
| ex3_5844534_x1 | CM000664.2/172156139-172156029 | 24 | 0.001 | 32.2 | 1 | ATTCTCCTAAGGACTGTGCAACCTGAGCATGATGATTGGGTATTCACGTGCATGTGTGAGATCTGCCACCCTTGAACCTTGTTATGACGTTAGCACATTACCCATCTGACA |
| ex3_5844650_x1 | ENST00000364830.3 | 19 | 0.003 | 30.2 | 1 | TAGACCAATGATGAGTATTCTGGGGTGTCTGAATCAATGATTTTGATTAAACCCTGTAAC |
| ex3_5844769_x1 | CM000666.2/47306037-47305934 | 14 | 0.008 | 28.2 | 1 | TTCCTTTTGTAGTACATGAGCATGATGATTTAATTTTCACACACATGTGTAAGACATGCCTCTCTCAAACTTTGTTATGAGGTCAGCACATTACCTTTCTGATA |
| ex3_5844923_x1 | ENST00000384785.1 | 18 | 0.009 | 28.2 | 1 | TTCCACCACTATTGGTCTGCAGCTCTTCTTATGGTAGCAGTTGTTGCATTTCTCTGTGGG |
| ex3_5845388_ | ENST0000051 | 15 | 0.002 | 30.2 | 1 | CAGACTTACAGATAAGTTCGAGAAATAAACCCTGTTTTGCAACCCAGAGCACATTGTTCA |

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|---|---|---|---|---|---|---|
| x1 | 5895.1 | | | | | |
| ex3_5845430_x1 | ENST00000363024.1 | 16 | 0.0006 | 32.2 | 1 | GATCAAGGATGAAAATACCCAAATTTGAGTATCAGAAGACCTTCCAGTCTACTTGATGCA |
| ex3_5845737_x1 | AF141346.1/2553-2637 | 15 | 0.002 | 30.2 | 1 | UACUGUUAGUGAUGAUUUUAAAAUUAAAGCAGAUGGGAAUCCCUCUGAGAAAGAAAAUGGAGAUUAAUCUUAAACUGAAACAGUA |
| ex3_5846128_x1 | ENST00000410656.1 | 15 | 0.003 | 30.2 | 1 | GTGCACATTTCATTGTCTTTTTTCTTTATTTCAAGAGAAAAGATATATCTGATGTGCTCA |
| ex3_5846751_x1 | CM000667.2/76784096-76784199 | 16 | 0.001 | 32.2 | 1 | ATCCTTTTGTAGTTCAAGAGCATAATGATCGGGCGTTCACATGCGTGTGTCAGATGTGCCACCCTCGAACCTTGTTAGGATGTTGGCACATTACCTGTCTGACA |
| ex3_5846874_x1 | CM000665.2/122750372-122750475 | 33 | 9E-14 | 65.9 | 1 | ATACTTTTATAGTTCATAAGTCTGATGATTGGGTGTCATGCTCATGTGTGAGACATGCCTCCCTTAAGCCTTGTTATGACGTCAGCATATTACCTGTCTAGATA |
| ex3_5848062_x1 | CM000671.2/87260450-87260585 | 14 | 0.008 | 28.2 | 1 | GTGCCCTTTTAAGGTAGACGCAGTTTCGTAAGAGGCTAACACATAAGGGTAAATTAAAGTAAGTCTCCATAAAACCCAGAGAAGAGACAGAAGAGACTGTGAAACTCCTCTTTGGACCCCATCTGGAGCCACAGCA |
| ex3_5848551_x1 | ENST00000384049.1 | 15 | 0.002 | 30.2 | 1 | TGGTAATTACCAAGATTTTTAGAATGCAGTTTCTCATTTGCCAGGGAAATGACCATAAAA |
| ex3_5848805_x1 | ENST00000384028.1 | 25 | 3E-09 | 50.1 | 1 | CTGGCACTTTCACAGTTCCTTCCCCAGGCAGTGGGGCCAGGATTTGGTAGCTGGTGCTGA |
| ex3_5849416_x1 | ENST00000579216.1 | 15 | 0.005 | 30.2 | 1 | GCCGTGTGAGGCCACCTCTGCCATGCTGCAGGCTCCCCAGCACGCAGTGGGGAACCCAAC |
| ex3_5850908_ | ENST0000039 | 14 | 0.008 | 28.2 | 1 | ATACTATGATGTTTGCATAGTTCAGCAGATTGAATTATGAAGAGATCTACCATTTGTCTG |

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|---|---|---|---|---|---|---|
| x1 | 1113.1 | | | | | |
| ex3_5851752_x1 | AC026355.13/69334-69207 | 14 | 0.009 | 28.2 | 1 | UUUGAGGUCUUUCCCGAUGGGACUUUUCUGUAGGCUGCACAUCAUUGGAAACGCCUCAUAGAGUUAACUCUGUGGUUUUACUUUACUCACAGGACUCUUGUUAGAUCUGUGGGAACUACAAGACAGUU |
| ex3_5854331_x1 | CM000668.2/1186518-1186620 | 14 | 0.009 | 28.2 | 1 | GTTCTTTTGTGGTTCATAAGTGTGATGATTGGGTTTTTTGCTCATGTGTGAGATGTGCCTCCCTCAAACCTCGTTATGATGTCGGCACATCACCCATCTGACT |
| ex3_5854515_x1 | ENST00000363336.1 | 19 | 0.002 | 30.2 | 1 | GTTTCTGATGAAGCCTATGTTGGTAGAGACATCTGAGAGTATTGATGAATGCCAACAGCT |
| ex3_5854758_x1 | ENST00000363193.1 | 15 | 0.006 | 30.2 | 1 | TGGGCCCTTTCACAGGCCCTCCCCTCGGCAGTGGGGCCAGGATTGGGTTGCTGGTGCTGA |
| ex3_5855486_x1 | CM000668.2/100957160-100957263 | 15 | 0.002 | 30.2 | 1 | ATCCTTTTGTAATTTATAAGCATCATGGTTAGGATTTAATGCTCATATGTGAGCTGAGCCTCCCTCAAACATTGTTAGGACATCAACACAATACCAGTCTGATA |
| ex3_5855701_x1 | CM000664.2/12030372-12030303 | 21 | 7E-07 | 42.1 | 1 | TGTGTATGATGAGATTTCACTTCATGGTCTGTGTTTCTGAAACACATGATGTTGTGGAAGTTCTGATTTG |
| ex3_5855957_x1 | CM000666.2/73263960-73264084 | 19 | 0.003 | 30.2 | 1 | TCTGAGACTAGAGTCACATCCTGACACGGCTCTTCTCCAATGTGCTGGAGTCCTCAGCATCTGCTGGTCTTGATTCACTGATGGGGGCAACCAGTGTCCCCTTAAGTGTCCGGGCAGAAACATAC |
| ex3_5856973_x1 | CM000670.2/27755122-277550 | 14 | 0.008 | 28.2 | 1 | ATCCTTCTGTAGTTTATGAGTGTGATGATTGGCTGTTCATGTGCATGTATGAGATGTGCCACCCTTGAACCTTGTCATGTCTGATGTGAAA |

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| | 32 | | | | | |
| ex3_5860465_x1 | CM000673.2/102058408-102058305 | 15 | 0.005 | 30.2 | 1 | ATCCTTTTGTAGTTTATGAGCATGATGACTGGGTTTTCACAGGTATGTGTGAGATGTGCCATCCTCGAACCTTGTTATGATGTCGGCATATTGTCAGTCTGACA |
| ex3_5862695_x1 | CM000680.2/12533525-12533424 | 15 | 0.003 | 30.2 | 1 | ATCCTTTTGCAGTTCCTAAGCGTGATGATTGGATATTCACACTTGTGTGCGAGATGTTCCTTTTTCTAAACCTTGTTATGTCAGCACATTACTCATCTGATG |
| ex3_5862811_x1 | CM000673.2/82843885-82843985 | 14 | 0.008 | 28.2 | 1 | AACCATGAATGCAAGAAGCGTATGATTGGGTTTTCATGCTCACGTGTGAAATGGACCACCCTCAAACCTGGTTATGCTATCAGCACATTACCTGTCTGATG |
| ex3_5863197_x1 | ENST00000365172.1 | 30 | 4E-12 | 60 | 1 | TGTCCTGATGATACTTGTAATAGGAAGTGCCGTCAGAAGCGATAACTGACGACGTCTAAT |
| ex3_5863333_x1 | ENST00000458838.1 | 25 | 3E-09 | 50.1 | 1 | CTGGAAAAGACAATGATGTTTTATTTCCAAGCACATATCTGAGTTGTATGTGTGGACAGC |
| ex3_5863586_x1 | CM000665.2/90426235-90426356 | 20 | 0.0008 | 32.2 | 1 | AAGACTGTACTTTCAGGGATCATTTCTATAGTTTGTTACAAAAAGAGTGCTTCAAAACTCCTCTACCAAAAGGAAGGTTCAACTCTTTGAGTTGAATGCACACATAAAAAAGAAGTTTCTGA |
| ex3_5864527_x1 | AC021733.12/63797-63917 | 15 | 0.002 | 30.2 | 1 | GGUAAUUACCAAGAUUUUUAGAAUGCAGUUUCUCAUUUGCCAGGGAAAUGACCAUAAAAUAAUUUCCCACUAGAUUUUUUUAUCUGUUACCUUGCUAGCAAGCAGUCUAUUGGGAACAUUU |
| ex3_5865462_x1 | CM000663.2/150261694-150261 | 14 | 0.009 | 28.2 | 1 | ATCCTTTTGTAGTTCATGGGCATGATGATGGGGTGTTCCTGAGCATGCGTAAGATGTGCCGCCCTCAAATCTTGTCAAGATGTTGGCACATTACCCATCTGACA |

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|  | 797 |  |  |  |  |  |
| ex3_5865739_x1 | ENST00000408163.1 | 15 | 0.004 | 30.2 | 1 | GGGATGTGCTCAGAGCAGGGGGCCTGAGGAATGGCTCCTCTGTTTACAACACACCCAACA |
| ex3_5866728_x1 | CM000685.2/40285096-40285199 | 14 | 0.009 | 28.2 | 1 | ATCCTTTTATGGTTCATAAGTATGTTGATTATGTTTTCATGCTATTGTGTGAGATGTACCTCCCTCAAACCTTGTTATGATGTCAGCACATTATCCATCTGATG |
| ex3_5867733_x1 | CM000668.2/121443617-121443693 | 19 | 0.004 | 30.2 | 1 | AAGACTATACTTTCAGGGATCATTTCTATAGTTTGTTACTAGAATGTAAATAAACTTAGTGATGAATTACTATAAGC |
| ex3_5868192_x1 | CM000669.2/107603363-107603507 | 15 | 0.003 | 30.2 | 1 | CTGCATGTGGAAATGTCTGTTCTTCATTCTTTTAGGAGCAGGAATACATATAGATATAAAAAACATCCCATATTTTAAAAGGAATTCTTAGGGCTTGCCAATCTTGTAGTAAAGGTTGAATTAGCAGTATATGTCTTCTACATAA |
| ex3_5868586_x1 | CM000682.2/38421774-38421647 | 14 | 0.008 | 28.2 | 1 | TCTTGTATCCAAAAGTGATCATGGGTTGCCTGTGTCCCGATCATTAACAGTGCAGGGGTAGGAGTGCTGAAAGACATCTTCCCTGCGTTGGTCCAGCCTTCCCTTTCAAACCCTGGAGCTTTCCCACG |
| ex3_5870717_x1 | CM000667.2/123009640-123009542 | 15 | 0.003 | 30.2 | 1 | ATCCTTGTGTAGTGCATAAGTGTGATGACTGGGTTTTCCCACTCTTGTGAGGTGTGCCTCCTGCAAATCTTATGATGTCTGCATATGACTTGTTTGACA |
| ex3_5875145_x1 | CM000665.2/90030284-90030495 | 15 | 0.006 | 30.2 | 1 | AAGACTATTCTTTCAGGGATCATTTTTATGCTTTGTACTAGAAGTTTCTCTGAAAGTGTAGAGCACCATCAACTATGGGAAAGGGGCACAGCATTGTCTCCTAAGCATGAAGCCAGCTCTCTGTGTTGTGTTGCTGCAACTGACACTTGGTATTGATGATCATTCTTTCCCTCCCTCAAAAGAATAAGAGGGGAGGATGAAGTCTGAGAGGT |

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| ex3_5877178_x1 | AC015550.19/39913-40054 | 15 | 0.004 | 30.2 | 1 | CUGCAGCCUAUUAAGCCAACUGAGUUCCUUUCCUCAUGGGGGGCCCAGUGUGCAAUGGCUGCAAACAGCAGCUUCCUUGGUAGUGUAUGCAGCCUGUGUGUUGUAUUGUAUGGGUUGCUCUAAGGGACCCUGGAGACAGUC |
| ex3_5879588_x1 | CM000679.2/82141663-82141773 | 14 | 0.009 | 28.2 | 1 | ATCCTTTTGTGGTTCATCCGCCTGATGATTGGGTTTTCATGCAGACGTGTGAGCTGTGCCTCCCTCAAGCCTTGTTACAACATCCGACATCCGCACATTACCTGTCTGATG |
| ex3_5880522_x1 | ENST00000391236.2 | 18 | 0.009 | 28.2 | 1 | AAGACTATTCTTTCAGGGATCATTATGCGAGAAGTTTTTCTGAATGCCTAAAGAACCAGA |
| ex3_5880649_x1 | ENST00000364796.1 | 14 | 0.009 | 28.2 | 1 | CAGCCTCTGATGAAATTTATCTTGATAGGGACATCTGAAAGTGTTGATGAATGCCAAGGA |
| ex3_5880930_x1 | CM000667.2/56857140-56857251 | 14 | 0.008 | 28.2 | 1 | AACATTTAATTGCAGTAATTCATAAGTGTAATGATTGGGTTTTCACATGCATGCATAAGATGTGCGTTTCTCCAACTTTGTTACAGTGTCAGCATGTTATCCTCATTTGACA |
| ex3_5880976_x1 | ENST00000363694.1 | 15 | 0.004 | 30.2 | 1 | GGGTCAATGATGAGAATCTTATATTGTCCTGAAGAGAGGTGATGACTTAAAAATCATGCT |
| ex3_5882114_x1 | CM000664.2/57016164-57016061 | 15 | 0.004 | 30.2 | 1 | ATATTTTTGTGATTCATAAGTATAATGATGGAGTTTTCAAATTCACGTGTGTGATGTGCCCCCCTCAAACCTCTTTATGATGTCAGCATATTGCTCATCTGACA |
| ex3_5882235_x1 | CM000677.2/25062333-25062427 | 14 | 0.009 | 28.2 | 1 | GGATCGATGATGAGTCCCCCATAAAAACATTCCTTGGAAAAGCTGAACAAAATGAGTGAGAACTCATACCGTCGTTCTCATCAGAACTGAGGTCC |
| ex3_5884010_x1 | ENST00000363243.1 | 15 | 0.002 | 30.2 | 1 | GGCCTCCTGGTGCTTACCAAGGCTGTCTTCTTACACTGACTGAAGCAGAGAAAGAGGAAG |

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|---|---|---|---|---|---|---|
| ex3_5885653_x1 | CM000664.2/183064346-183064235 | 14 | 0.008 | 28.2 | 1 | GCAGACTCCCTCAGCATCCAGCGGGTGCTTTTTCGGTCTGCCAGTGAGCATTCCATGGTGCTGTGACCATTTTGACCTCTCTAGGGTGATGCAGCTGCCTGGGGACACAGAG |
| ex3_5885789_x1 | CM000675.2/34100838-34100711 | 18 | 0.008 | 28.2 | 1 | AGATAACTTCAAAGAGGGCTTGCGGAGCTGCAAAACCAAGAGCTTTTAATGTATTACTGAATATTGAAGTTCTCCGTAGGATGCCATAGTCACTCAGTAGTGCTATATCTTCCTAAGCAGATATAAGA |
| ex3_5886497_x1 | AL132709.5/145774-145703 | 14 | 0.008 | 28.2 | 1 | UAGAUCAGUGAUGACUACUGUUGGUGUAUGAGUCAUAUACGAUGAAUACAUGUCUGAAAUUCUGAGGUCCAA |
| ex3_5887684_x1 | CM000670.2/59137502-59137372 | 15 | 0.005 | 30.2 | 1 | AGCCTCCTGGTGTTTAACACAGCTGTGTTCTTATACTGACTGTGTAGAAAGAGAAGGAAATAAACCTTACCCCATATGCATTTCATCCCCGGACCCTGCACCTCGTCTATATTGTGAATAGGGAAATATGG |
| ex3_5887898_x1 | CM000664.2/218619801-218619887 | 16 | 0.001 | 32.2 | 1 | AAGACTACACTTTCAGGGATAATTTCTATAGTTCATTACTAGAGAAGTTTCTCTGAATGTGTAGAGCACCATAAAATACATTTTATT |
| ex3_5888397_x1 | ENST00000408534.2 | 25 | 3E-09 | 50.1 | 1 | GAGACTATACTCTCAGTGACCAGTTCCTGAGTTCATTACTAGAGAAGTTTCTCTGAACGT |
| ex3_5889235_x1 | AC013416.4/54383-54515 | 16 | 0.0007 | 32.2 | 1 | UGGCAGCCAUGUCAAAUUCAGUGCCUGCCCUGUCUAUGGUAGGCACUGGCCCAGAAGACUGCCACAGAAACAGUGACUCACAGGCCCUGUUACUGUGUCCCAGGCUCAGGGAUAAAUUUGGUUACAGACACCA |
| ex3_5889275_x1 | CM000667.2/87507197-875073 | 15 | 0.003 | 30.2 | 1 | AAGACTACACTTTCAGGGATTATTTCTATAGTTCATTCCTAGAGAAATTTCTCTGAACATGTAGAGCATGAAAAACTAATTATGGAAAGGGAAGACCATTACCAGCCAGT |

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| ex3_5890134_x1 | CM000672.2/26789017-26789157 | 14 | 0.009 | 28.2 | 1 | CCTCATTTTCTTGGCAGGAACTTGTAGTCCCACTCCCTGTTATGTACAGAGGCAAAGGGAAGAGCTCTGGCCCCCTTGGCATGTCTTTGGAGCCATGCAGCTTCCCGTCTGCCAGTTCTATCCTCAAGCACCAGGACACCA |
| ex3_5890637_x1 | CM000663.2/119259041-119259141 | 14 | 0.008 | 28.2 | 1 | ATTCTTTTGTAGTTCAAGAGTGTGATGATTGGCTGTTCATGAGCATGTATGAGATATGCCACCCTTGAACCTTGTTACATCAGCACATTATCTGCCTTACC |
| ex3_5891156_x1 | ENST00000362701.1 | 14 | 0.009 | 28.2 | 1 | TTGGGCAGTGAACACCCAAGTGTGCTTTATAGTTCCTTTGGCTTTGACTTTGTGCTAGAG |
| ex3_5891501_x1 | ENST00000516599.1 | 20 | 0.0005 | 32.2 | 1 | TGTCAGTGATGAAAGCTTAGTCCCGTTCTGCTACTAATGTTAAGTGATGATAAAGTTATG |
| ex3_5891640_x1 | ENST00000365313.1 | 14 | 0.008 | 28.2 | 1 | TTACCAAAAGTTAATGTTTTCAGAGAATGCTTTGGTTAAAAAGCCTTTACCAACTTGGGC |
| ex3_5892907_x1 | AC016708.11/153795-153929 | 43 | 1E-19 | 85.7 | 1 | CUGCAGCCAAUUAAGCCAACUGAGUUCCUUUCCUUGUGGGGGCCCAGUGUGCAAUGGCUGCACACAGCAGCUUCCUUGGUAGUGUACACAGCCUGUUGGUUGUAUGGGUUGCUCUGAGGGACCUUGGAGACAGGC |
| ex3_5895935_x1 | ENST00000391284.1 | 15 | 0.002 | 30.2 | 1 | ACCTCTGCTGGGGTGTTTAAAGGTCAGCGCTGTAGATATTCAGCATCTGGCATCTTGGCT |
| ex3_5896177_x1 | CM000680.2/22260576-22260677 | 15 | 0.002 | 30.2 | 1 | ATCTTCTGTGGTTTCTAAGTGTGATGATTGGGTTTTCACACAGTTGTGTGAGGTGTGCCACCTTCAAACCTTGTTATGACGTCGACACTTACCCATCTGACA |
| ex3_5897252_x1 | ENST00000365473.1 | 14 | 0.009 | 28.2 | 1 | TAGGCCCTGAATCAAGAAACGTGATGGTTTGCCATTGTAGCTATTGGTTTCAAACAAGAG |
| ex3_59 | ENST0 | 18 | 7E-05 | 36.2 | 1 | GGGTCGATGATGAGAACCTTATATTTTCCTGAAGAGAGGTGATGACTTAAAAATCATG |

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| 00043_x1 | 0000606510.1 | | | | | CT |
| ex3_5900165_x1 | ENST00000384679.1 | 14 | 0.009 | 28.2 | 1 | TGCACTGCATGGCATCTGCACCCAGCAGTTTACTCTTGCTAAGGTGTTCAAAGGTCAGTG |
| ex3_5900265_x1 | AC023271.11/39009-38876 | 14 | 0.009 | 28.2 | 1 | AGCCUCAUUCUAGAUGAGAAUGGGUACUGCUGAUCAUGGUGUCCAAAAAACUUUAUGUGGCUAAAUUGAGACACAGGCUAUGCUUCCAUCACAGUACACAUAUUGCAGUGGUGACAAUGAAACCUGUAACAUUU |
| ex3_5901289_x1 | CM000665.2/32172656-32172755 | 15 | 0.002 | 30.2 | 1 | ATCCTTTTGTGGTTGATAAGTGTGATGATTCAGTTTTCATGCTCATGTATGAGATGTGCCCCCAATCAAACTTGTCACAACATCTGCTTATTATCAGACA |
| ex3_5903130_x1 | CM000682.2/43304555-43304679 | 15 | 0.002 | 30.2 | 1 | CTGGAGACTAAGAAACCAGTCCTTGAAGTCAAGCTGACTCTGCTTTTAGCCTCCTAAATTAAAAGATAGATAGAATAGGTCTTGTTTGCAAAATAAATTCAAGATCTACTCATCTATCAATAGCA |
| ex3_5903433_x1 | AL132709.5/131508-131439 | 22 | 4E-05 | 36.2 | 1 | UGGAUCGAUGAUGACUACUGGUAGCAUGAGUCAUAUACAGUGAAUACAUGUCUGGAACUCUGAGGUCUGU |
| ex3_5905623_x1 | ENST00000365189.1 | 14 | 0.009 | 28.2 | 1 | AGCCTCATTCTAGATGAGAATGGGTACTGCTGATCATGGTGTCCAAAAAACTTTATGTGG |
| ex3_5906161_x1 | CM000677.2/86173270-86173198 | 15 | 0.005 | 30.2 | 1 | GTTTCTGATGAAGCCTATGTTGGTAGAGACATCTGAGAGTATTGATGAATGCCAACAGCTTAAATGGAGAAAA |
| ex3_5906892_x1 | CM000665.2/197339551-197339457 | 18 | 5E-05 | 36.2 | 1 | AGTCTTTTGTAGTTTGCAAGCATGATGATTCGGTTTTGAGAGGTGCCTCCCTCAAACCTTGTAGACGTCGTCATCGGCACATTACCTGCCTGATG |

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|---|---|---|---|---|---|---|
| ex3_5907171_x1 | ENST00000365612.2 | 19 | 0.003 | 30.2 | 1 | AGGGCTATACTTTCAGGGGTAATTTCTATAGTTCATTACTAGAGTAGTTTCTCTGAATGT |
| ex3_5909573_x1 | CM000670.2/123266745-123266642 | 15 | 0.003 | 30.2 | 1 | ATCCTTTTGTAGTTCTTAAGTGTGATGATTGGGTTTTCATGCTTATGTGTGAAATGTGCCTTTCTCAAACCTTGTTATGACACTGGCACATTACCTGTGTGACG |
| ex3_5910185_x1 | ENST00000391209.2 | 15 | 0.004 | 30.2 | 1 | AAGACGATACTTTCAAGAATCATGATCATTCTATACAGTTCATTACTAGAAAAGTTTCTC |
| ex3_5910686_x1 | CM000666.2/159507029-159506894 | 17 | 0.0003 | 34.2 | 1 | GCGAGGAGGAGGCACAGGGTTCTCCCCTGAGAGCCAGGCCAGCTCTTAGTGTTGCTTCGCTGCAGGTGCCATTTGGCATTGAGGATTGTTTTTCTCTTCCTCCGGCAAAGTAAGAGGGAGAGGACACAGTCTGAGT |
| ex3_5910973_x1 | CM000679.2/19064136-19063920 | 31 | 1E-12 | 61.9 | 1 | AAGACTATACTTTCAGGGATCATTTCTATAGTGTGTTACTAGAGAAGTTTCTCTGAACGTGTAGAGCACCGAAAACCCCGAGGAAGAGAGGTAGCGTTTTCTCCTGAGCGTGAAGCCGGCTTTCTGGCGTTGCTTGGCTGCAACTGCCGTCAGCCATTGATGATCGTTCTTCTCTCCGTATTGGGGAGTGAGAGGGAGAGAACGCGGTCTGAGTGGT |
| ex3_5913585_x1 | CM000668.2/117098199-117099860 | 15 | 0.002 | 30.2 | 1 | ATCCAAGGTGAGTCTCTCTCCAAGGGGCTGACTAGTGCCTCTCTTAGGACAGTAGCAAGTTGGAATAAAATCTGGCATGCCTAAGGTCTTTAAGGAACAGGGGATGCTTACTTCTTTTGCGTTCCTCTGGCGGCCTACATAG |
| ex3_5915019_x1 | ENST00000391215.1 | 19 | 0.005 | 30.2 | 1 | GTTCCCTTTTAAGGCTGACCCAGTGCTTTAAGAGGCTGATACAGAAGGGTAAAGTTAAGT |
| ex3_5916454_x1 | AJ243222.1/1-109 | 14 | 0.008 | 28.2 | 1 | UCCCAAUGAUGAGUUGCCAUGCUAAUACUGAGCCACCAGGUAGGGCAGUGUUGCCUGGUUUGGGUGCCAGUGAGUUUAACAAAACUUCUCACAUGAAGAUCUGAGGGGU |
| ex3_5918008_x1 | CM000665.2/132280618- | 14 | 0.008 | 28.2 | 1 | ATCCTTTTGTAGTTCATAACAGTGATTACTGGGTTTTCACGTTCATGTGTGAGATGTGCCTTTCTTTTTTTTTGTT |

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|---|---|---|---|---|---|---|
| | 132280693 | | | | | |
| ex3_5918053_x1 | AC104446.2/142006-142080 | 20 | 0.0005 | 32.2 | 1 | CAUGGGUGAGGUACGAGGAAACAGUCUGAUAGUCACUGAAGACUGAUUAGAUCCAACUCUGAUCUCAGCAAAGCC |
| ex3_5918100_x1 | ENST00000384470.1 | 14 | 0.008 | 28.2 | 1 | TCTTAGTGATGAAAACTTTGTCCAGTTCTGCTAATGACTTTAAGTGATGATAAACTATGT |
| ex3_5918305_x1 | ENST00000383920.1 | 15 | 0.004 | 30.2 | 1 | TAGGCCCTGAATCAAGACTAGTGTTTTGCTGTAGCTGTTGGTTTCAAACAGGATCCGAGA |
| ex3_5918726_x1 | ENST00000384225.3 | 23 | 4E-08 | 46.1 | 1 | GCACTGCCTTTGAACCTGATGTGTCTTGTTTGTAGCTTCACGGGCCAAGCAACAGTGCTA |
| ex3_5918866_x1 | CM000673.2/66432763-66432902 | 15 | 0.006 | 30.2 | 1 | GATGCCTTCCGGAACATGCCAGCACCGCAGATGCTGGCAGTCTGCTGTGCCCGTGATATTGGGCAAAGAGGAAGTGGCTATTTCTACACTTGGTGTTCAGAAACCAGTGAGCTCTAAGAATGGTTTATAGCCTGACATTT |
| ex3_5920097_x1 | AC016710.7/58672-58803 | 15 | 0.002 | 30.2 | 1 | CUGUGAAUAUUCUCUGUGUUCUGAUUAUGUGAGAGCCAGGACAGGCUAAACAUUUGCUACAUUAAGACCAUGCAUGUGUACCCAGAUGUAGCCCAUUCCCUAGCUCUGGUCUUAUAAAUGCUGGUGAUAAAC |
| ex3_5921333_x1 | CM000677.2/59390208-59390317 | 15 | 0.006 | 30.2 | 1 | ATCCTTTTGTAGTTCATAAGCGTGATGACTGTGGTTTCATGCTTGTGTGTGAGAGATGGGTGGGCCTCCCTCAAACCTTGTTACGACGTAGGCCCATTACCCATCTGACA |
| ex3_5922272_x1 | CM000669.2/10222797-10223011 | 14 | 0.009 | 28.2 | 1 | AAGATGATACTTTCAGTGATCTTTTTTCAGTTTATTACTAGAAAAGTGTCTCTGAACCTGGAGAGCACCAGAAACCAAGAGGAGGAGATGTAGCGCTCTCTCCTGAGCTTAAAGCTGGCTCTTGGTTTTGCTTTGCTGCAACTGCTTTTTGCCATTGATGATCATTCTTCTCTTCCTCCTGGGAAGTAAGAGAGAGAAGATGCAGCACGAATGGT |
| ex3_5922571_x1 | ENST00000606412.1 | 20 | 2E-06 | 40.1 | 1 | TGGATCAATGATGACCACTGGTGGCGTATGAGTCATATGTGATGAATACGTGTCTGGAAC |

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| ex3_5923429_x1 | CM000674.2/88866643-88866763 | 16 | 0.001 | 32.2 | 1 | TGTCTCTGACCTGGTTAAAGTGGCATCTGGTTGGTGGCACTTATCTCAAATCGCAAAGACATAAGGCAACCTCTTGTTTATCCCAGCTTGGCTTTTTGTTTTTTGTTTTTTAGACAGGGTC |
| ex3_5923758_x1 | CM000663.2/153012614-153012482 | 14 | 0.008 | 28.2 | 1 | ATGCATCTATCTGACATGCCTGGAGCAGGTATTGTCTGCTGCTAAAGTTTCCACCACAGATGCAAGAAGAAAAATGTCCTCATGCTTTTTGTCTGTGATTGTGGCAGCCAAGATTGACTAGAGGAATGCAGAG |
| ex3_5925488_x1 | CM000685.2/28924069-28924138 | 14 | 0.009 | 28.2 | 1 | CAGCCTCTGATGAAATTTATCTTGATAGGGACATCTGAAAGTGTTGATGAATGCCAAGGACTCTAATGGA |
| ex3_5925809_x1 | CM000665.2/180542701-180542836 | 14 | 0.008 | 28.2 | 1 | TGGTCAGGTGGAATAATCCTTATCTGTTTCTCCTTTTGAAGGGCAGATTAGAACATGATAATTGGAGTTCACATGATACATGATTAAAGTCTCTGTGTAATCATGACTTACAATATCCTGATTATTCCTATCTTAT |
| ex3_5925891_x1 | CM000677.2/65696936-65696833 | 28 | 6E-11 | 56 | 1 | ATCCTTTTGTAGTTTATGAGCATGATGATTGGGTATTCATCCATGTTTGTGAGATGTGCCACCCTTGAACCTTGTTACGACATCAGCACATTACCCATCTGACC |
| ex3_5926019_x1 | CM000669.2/37419628-37419767 | 15 | 0.002 | 30.2 | 1 | GGCCTCCTGGTGCTTACCAAGGCTGTCTTCTTACACTGACTGAAGCAGAGAAAGAGGAAGCAGAGTAAACCTATACCATGTGCACCTCAGCCCAGGCCCTGTGTGTGTGCCTGGTCTGTATTGTAAATGCAGGGAAATGG |
| ex3_5927339_x1 | CM000675.2/20969318- | 16 | 0.001 | 32.2 | 1 | ATCATTTTGTACCTTTTAAGCATGACCATTGGGTTTTCACACTCATATGGGAGGTGCCTCCCTCAAACTTTGTTACATTGGCACATGACTCATCTGATG |

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|---|---|---|---|---|---|---|
| | 20969416 | | | | | |
| ex3_5928063_x1 | CM000685.2/110225063-110224985 | 15 | 0.008 | 30.2 | 1 | GATCCTGGTGATGACAGACGACATTGTCAGCCAATCCCCATGTGGTAGTGAGGACATGTCCTGCAGTTCTGAAGGGATT |
| ex3_5928184_x1 | ENST00000459180.1 | 14 | 0.009 | 28.2 | 1 | ATCCTTTTGTAGTTCGTAAGCATGATGATTGGGTGTTCACGTGTATGTGTGAGATGTGCC |
| ex3_5928629_x1 | ENST00000391019.2 | 23 | 4E-08 | 46.1 | 1 | AAGGCTATACTTTCAGGGATCATTTTTATAGCTTATTACTAGAGGAGTTAATGTGAATGT |
| ex3_5929429_x1 | CM000668.2/75865964-75866066 | 16 | 0.0009 | 32.2 | 1 | ATCCTTTTGTAGTTCATAAGCCTGATGATTGGATTTTCATGCTCATGTGTGCGATCTTCCTCCCTCAGCCTTGTTAATGTGTTGGCACATTACTCATCTGACG |
| ex3_5930592_x1 | ENST00000390991.1 | 17 | 0.0004 | 34.2 | 1 | AATTGGGATCAAAGATGCAGCCGCCTTCCCATTTAAGCAGCACAGACAGCCCAAAGTGAC |
| ex3_5930896_x1 | CM000673.2/86094192-86094295 | 14 | 0.009 | 28.2 | 1 | ATCCTTTTGTAGTTCATGAGTGTAATGATTGAGTGTTCATGCACATGTGTGAGATATGCCACCCTTGAACCTTGTTACACCGTTGTCACATTGCCCGTTTGACA |
| ex3_5931930_x1 | CM000677.2/26009074-26008940 | 16 | 0.0008 | 32.2 | 1 | TGCCCCTGACCTGGGAAGAGAGGGGCCTGGCTGGTGGTATCCATCTCATACCAGCTAGGGATGAAGAAACCGCTTGCTCATCCCAGCCTGGCTCCTGGTCTATGCCCATGCCTGGTTCGTGCCTTGGACATATCA |
| ex3_5932096_x1 | CM000681.2/40114705-401146 | 21 | 1E-06 | 42.1 | 1 | AAGACTATACTTTCAGGGATCATTTCTATAGTTTGTTACTAGAGAAGTTTCTCTGAACGTGTAGAGCACCGAGGCATGGGCAAGGACTTCATGTCCA |

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| ex3_5932114_x1 | CM000667.2/80239589-80239487 | 15 | 0.005 | 30.2 | 1 | TTCCTTTTTAGTTCATAAGCATGATGATTGGGTTTTCATGCTTGTCTGTGAGATGTGCCTCCCTTAAATCTTGTCATGTCGTTGGTACATTACCCATGTGACA |
| ex3_5935128_x1 | AC008474.9/113719-113587 | 15 | 0.003 | 30.2 | 1 | UUCUCACCUAAACCCAAGAAUCACUGUUUCUUAUAGCGGUGGUUUAAACAGAGGUGCAAACAGCAAGUGAAUCUCGUCGCCUUUGCGGGGCUGUGGCCAUGCCCCUCAAAGGAAAUUUGGAGGCUCUACAGCC |
| ex3_5935585_x1 | ENST00000391249.2 | 14 | 0.009 | 28.2 | 1 | AAGACTATACTTTCAGGGATCATTTCTATAGTTCATTACTAAAGAAGTCTATCTGAACAT |
| ex3_5935779_x1 | AJ609425.1/1-130 | 20 | 2E-06 | 40.1 | 1 | UGCCUCAUUCUAGAGAAUGGGCACUGUUGAUCAUGGUGUCCAAAAAUAGUUAAUGUGGCUAAAUUGAGACAGGUUAUGCUUCCAUCACAGUAUGCAUAUUGCAGUGGUGACAAUGAGACCUGUAACAUUU |
| ex3_5936599_x1 | CM000681.2/49489965-49490048 | 20 | 2E-06 | 40.1 | 1 | GAGGTCAGTGATGAGCAACATTCACCATCTTTCGTTTGAGTCTCACGGCCATGAGATCAACCCCATGCACCGCTCTGAGACCTG |
| ex3_5938617_x1 | ENST00000363219.1 | 15 | 0.003 | 30.2 | 1 | TGAGCAAGCGATGACAGCCGGTGGTGTGTGAGTCATGGAGGATGAATACTAAGTGCCTGG |
| ex3_5942240_x1 | ENST00000362500.2 | 19 | 1E-05 | 38.2 | 1 | TAGTAACACTTCCATGCACCATTTCTATAGTTTCTTACCAGAGAAGTTTCTCTGAACATG |
| ex3_5942446_x1 | CM000678.2/68313340-68313239 | 14 | 0.009 | 28.2 | 1 | ATCGTTTTGTAGTTCATAAGCGTGATGACTGGGTGTTCATGTGCCTGTGTCAGACGTGCCTCCCTCAAACCTTTACTACATTGGCACGTTACCCATTTGAAC |
| ex3_5942542_x1 | AC090527.3/17174-17301 | 15 | 0.006 | 30.2 | 1 | UUCCACCACUAUUGGUCUGCAGCUCUUCUUAUGGUAGCAGUUGUUGCAUUUCUCUGUGGGAAAGAAAAGAGGAUUAAACACCUCUUUCUUAGCAAAACAGAGAGUAGGCAUAUGUGUGACAGACACAA |
| ex3_59 | ENST0 | 16 | 0.000 | 32.2 | 1 | TGCCTCTGACCTGGGTAGAGTGGCATCTGGCTGTGACATTCATCTCATATCAGCCAG |

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|---|---|---|---|---|---|---|
| 42546_x1 | 0000391324.1 | | 5 | | | GGA |
| ex3_5942905_x1 | CM000664.2/64908686-64908587 | 14 | 0.009 | 28.2 | 1 | ATCCTTTTGCAGTTATGCATAATGACTGGGTTTTCACGCTTATGAATGAGATGTGCCTCCCTCAAACATTGTTATATGTCAGCACATTATGCATCTGACA |
| ex3_5943368_x1 | CM000664.2/156422195-156422299 | 14 | 0.009 | 28.2 | 1 | GTCTTTTTATAGTTCATAAGTGTGATGATTGGGTTTTTATGCTCTTGTATGTGATGCCCCTCTCCTCAAATCTTGTCATGATGTTGGCACATTACCCATCTGATG |
| ex3_5943655_x1 | CM000679.2/35054494-35054388 | 15 | 0.006 | 30.2 | 1 | ATTATTTTGTTGTTCATAAGTGTAATGATTGGATTTTCATGCACATGTATGAGATGTGCCTCCATCAAGCCTTGTTACTACAAAGTCAGTGCATTACCCATCTGATG |
| ex3_5944460_x1 | CM000668.2/34682798-34682902 | 14 | 0.009 | 28.2 | 1 | ATCCTTTTGTAGTCCATAAGCGTGATGATTGAGTGTTCACACTTATGTGAGACACGTGCCCTCCCTCAAACCTTGTTATGACATTGGCACATTATTTCTCTGATG |
| ex3_5946051_x1 | ENST00000364831.1 | 15 | 0.004 | 30.2 | 1 | AGGTCATTTCAAAGAGGTCTTGTGAGGCTGTGAAACCAAGAGCTCTTAACACTGCGACCA |
| ex3_5947981_x1 | ENST00000384210.1 | 15 | 0.002 | 30.2 | 1 | CTGCAGCCAATTAAGCTGACTGAATTCCTTTCCTTATGGGGGTCCAGTGTGCAATGGCTG |
| ex3_5948208_x1 | ENST00000363810.1 | 15 | 0.002 | 30.2 | 1 | GGGTCGATGATGAGAACTTTATATTGTTCTGAAGAGAGGTGATGACTTAAAAATCATGCT |
| ex3_5949332_x1 | CM000684.2/21411050-214111 | 15 | 0.003 | 30.2 | 1 | ATCCTTTTGTAGTTCATAAGCATGATGATTATGTGTTCACACACGTTCCCATGTAAGATGTGCCACCTTCAAATATTTTTTTT |

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| | 32 | | | | | |
| ex3_5950688_x1 | AC141001.6/11830-11964 | 33 | 8E-14 | 65.9 | 1 | UUUCCCUGACCUGGGUAGAGUGGCAUCCAGUUGGUGGUGCCCAUCUCAUAUCAGCCAGGGACAAAGCAACCCCUUGUUCCUCCCAGCUUGGCUUUUCAUCUGUGCCUAUGCCUGGUUCAUGCCUUGGACACAUUU |
| ex3_5950976_x1 | ENST00000459171.1 | 14 | 0.009 | 28.2 | 1 | ATTACTTGAAAATCACTCCCAGGCTTTGGCCATGGCAGCAGGTGAGATTCAAGGCCCAGA |
| ex3_5951529_x1 | ENST00000364446.1 | 16 | 0.0008 | 32.2 | 1 | AATCTCCTGGGATTGTGTCTGGCGAGTGCCCAGTATTCTGCCACCTTCAGAAGGAAGGGA |
| ex3_5951985_x1 | CM000677.2/25059538-25059633 | 14 | 0.008 | 28.2 | 1 | GGATCGATGATGAGTCCCCCCAAAAAAACATTCCTTGGAAAAGCTGAACAAAATGAGTGAAAACTCATACCGTCGTTCTCAGCGGAACTGAGGTCC |
| ex3_5952429_x1 | CM000672.2/23166985-23167101 | 23 | 0.005 | 30.2 | 1 | AGCATTAAATCTACTGAAGATATCCACATCCTTAGACAGACGCAAAAAATAAATTCTCTTTTGCAACTCAGAGCTCATTGTGCGGTATGAGCTTTGATACATATAAGAAGGAATATT |
| ex3_5953858_x1 | AL132709.5/141607-141533 | 18 | 0.008 | 28.2 | 1 | UAGAACAACGAUAACAAAUAGUAGUGCAGGAGUCAUAAACUAUGAGUAAUAUGUGUGUGGAACUCUGAGCAUCAA |
| ex3_5954948_x1 | ENST00000516021.1 | 15 | 0.003 | 30.2 | 1 | CTCGAGGGTGATGAAAAAGCATCCCTAGGTGTGGTTGTGGCATCTTGGTCACCTATGTGC |
| ex3_5954989_x1 | ENST00000391156.1 | 15 | 0.003 | 30.2 | 1 | TGTCCTTGGCCTGGGTAGAGTGGCACCTAGTTGGTGGTGCCCATATTAGCCAGGGACAAA |
| ex3_5955135_x1 | CM000666.2/139436494-139436368 | 19 | 0.004 | 30.2 | 1 | ATTGGTTGAAAATCACCCCCCGGCTTTGGCCATGGCAGCGGGTGAGATTCGGCGCCCAGAGCCTCCAGGGGCCTCAGCTCACCGCACGCTGACACATGTGCGGCGGTGAAACCCAGCCCCAACAGGC |
| ex3_59 | CM000 | 15 | 0.006 | 30.2 | 1 | ATTCTTTTGTAGTTCAAAAGCATGATGATTGGGTGTTCACAGGCATGTGTAAGACGTG |

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|---|---|---|---|---|---|---|
| 56868_x1 | 671.2/72527236-72527339 | | | | | ACACCCTCTGAACCTCCTTATGACCCGGTACATTACCTGTCTGACC |
| ex3_5957840_x1 | ENST00000384381.1 | 15 | 0.003 | 30.2 | 1 | TGTCAGTGATGAAAATTTTGTCTAGTTCTGCTACTGACATTAAGTTATGATAAAGTCTGT |
| ex3_5961419_x1 | CM000674.2/128398408-128398522 | 18 | 0.009 | 28.2 | 1 | GTCCTTTTGTAGTTCATAAGGGTGAACCTTTGTAGTTCATAAGGTTTTCATCCTCATGTGTGAGACATGTCTCCCTCAGACCTTGTTATGATGTTGGCACGTTGCCCGTCTGATG |
| ex3_5963148_x1 | ENST00000459326.1 | 30 | 4E-12 | 60 | 1 | GCCCAGGGTATGTTCACGGGGCGATGCTGCCCTCCCAGCTGGCCCATGGGTGACCCTGGG |
| ex3_5963222_x1 | KN538374.1/2557483-2557351 | 20 | 0.001 | 32.2 | 1 | TAGTCAGGCGGGATAATCCTTACCTGTGCCTCCTTTTGGAGGGCAGTAGAATGTGGTAGTTGGAGTTGCATGATACTTGATTCATATCTCTGTGTAATGATGGCATGCAATACCCTGACTGCTCCTTTCGAAT |
| ex3_5964296_x1 | AC022107.8/66266-66397 | 15 | 0.006 | 30.2 | 1 | GCGCUGCCUUUGUACCCCACCGUGCCUCCGCCUGGUGUCUGGGGUCAGGUUGCAGUGCCAGAGCACGUGCUUGCGCAUAAAUGGGGCAGCCUGGCCCCCUGCGGAUGGUCCUUUUAACCGCGAGCAACAAGG |
| ex3_5967601_x1 | AADB02016115.1/24955-25031 | 15 | 0.003 | 30.2 | 1 | UGGACCAAUGAUGAGACAGUGUUUAUGAACAAAAGAUCAUGAUUAAUCCAGUUCUGCACAAAACACUGAGGUCCAUU |
| ex3_5968756_x1 | CM000664.2/121706080-121705967 | 14 | 0.009 | 28.2 | 1 | ACCCACTTGTGGATTTGTTTCAAAACTTAGTTTAGATCTTTTGAGTTTTCACATTCGTGTGAGATGTGCCTCCCTCAAACCTTGTTACTACCTTGGCACATTACATATCTGATG |
| ex3_5969245_ | CM000677.2/2 | 24 | 1E-08 | 48.1 | 1 | GGATCGATGATGACTTTAAAATGGATCTCATCGGAATCTGAACAAAATGAGTGACCAAATCACTTCTGTGCCACTTCTGTGAGCTGAGGTCC |

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|---|---|---|---|---|---|---|
| x1 | 5097663-25097754 | | | | | |
| ex3_5970310_x1 | ENST00000459372.1 | 15 | 0.002 | 30.2 | 1 | ATCCTTTTGTAGTTCAGAATCATGATGATTGGGTTTTCATGCTCATGTGTGAGATGTGCC |
| ex3_5970674_x1 | CM000677.2/101683515-101683616 | 14 | 0.008 | 28.2 | 1 | AGCTTTTTGTAGTTCATAAGCGTGATGACTGGGTGTACACACATGTGTAAGATGTACCTCCCTCACACCTCGGTACAACATTGGCATATTACCCACCCCACA |
| ex3_5971445_x1 | CM000674.2/64575665-64575741 | 14 | 0.008 | 28.2 | 1 | GCCAAATGATGCTTATTTGACTCTGGTGCACTTCAGTGTAAGGATGATTTATAATCTGTCACTCATGATTGAAGGCC |
| ex3_5971468_x1 | ENST00000459492.1 | 20 | 2E-06 | 40.1 | 1 | ATCCTTTTGTAGTTCATGAGTGTGATGATTGTGTGTTCATACGCTTGTGTGAGATGTGCC |
| ex3_5972920_x1 | CM000685.2/17357930-17358033 | 20 | 0.0006 | 32.2 | 1 | AGTTTTCTGTGGTTCATAAGCATGATGATTGGGTTTTCATGCTTATGTGTGAGATGTGCCTCCCTCAAACCTTGTTACGACATTGGCACATTACCCATCTGATG |
| ex3_5973545_x1 | ENST00000607246.1 | 19 | 0.003 | 30.2 | 1 | ATTCATTTTCAAATATTTGCTGACTAAATGATACACACATGACTAAAACTTAATCCTGAC |
| ex3_5975058_x1 | KV766198.1/132915-133131 | 15 | 0.007 | 30.2 | 1 | AAGACTATACTTCCGGATATCACTTCTATAGTTTGTTACTAGAGAAGTTTTTCTGAACGTGTAGAGCACGGGAAAGCACAAGGGAGAAATGTAGTTTTTTTTTCTGAGCGTGAAAATGGTTTTTTGTTGTTGCTTTCATTGCAAGTACGATTTGCCATTGACGATCGTTCTTACTGTTCTCTTTGGAGGGTAAGAGGAAGAGAACGCGGTCTGAGTG |
| ex3_5975813_x1 | CM000670.2/122671291-122671 | 14 | 0.009 | 28.2 | 1 | ATCCTTTTGTAGTTCATAAGCATGATGATCGGGTGTTCATGTCCGAGCATGAGATGTGCCTCCCTCAAACCTTGTTGTGACGTTGGCACATTTCCCATCTGATG |

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| ex3_5976696_x1 | CM000664.2/202081875-202081978 | 19 | 3E-05 | 38.2 | 1 | ATCCTTTTGTAGTTCATAAGCATGATGATTGGGTGTTCACATGCATGTGTGAATGTGCCACCCTCTGAACCTCGTTACAACATCAACACATTACCTGTCTGACC |
| ex3_5977377_x1 | ENST00000458953.1 | 15 | 0.004 | 30.2 | 1 | AAGCATGGCACACTGGATGGGCGTTCTGCTTCTCTTTAAAGAGCATGGATTTATCCATAC |
| ex3_5978078_x1 | CM000675.2/97885809-97885912 | 15 | 0.005 | 30.2 | 1 | ATCCTCTTGTAGCTCCTAAGTGTGACGATTGGGTTTTCAGGCTCATATGTGAGATGTGCCTCCCTCAGATCTTGTTACGATGTTGGCACATTACCCATCTGATG |
| ex3_5979976_x1 | CM000672.2/113820459-113820590 | 17 | 0.0003 | 34.2 | 1 | ACTGCCCCTGGAGGCATTGCAGATGTGGCTGCTGTGTCACATTTGTGTCATTAGGTAGCAGCGATTAGAGAGGCTATGTCTATGCTCAGCGTTCTGTCCCATGAACATTTGAATGTTTAATAGTCTGACTCT |
| ex3_5982910_x1 | ENST00000516190.1 | 14 | 0.009 | 28.2 | 1 | TTGCGTCTATTTGACAGACTAGAATAATTACTATCTGCTGCTAAGGTTTCCCCTGCAGAT |
| ex3_5983508_x1 | ENST00000384250.1 | 18 | 0.008 | 28.2 | 1 | TGCATTGCCATGGTATCTGCACTCAGTAGTTTATTCCTGCTGGGTGTCCAAAGATCAGTG |
| ex3_5983881_x1 | ENST00000517031.1 | 20 | 2E-06 | 40.1 | 1 | TATAGTGTGGCCATGGGATCTCCAACTGCATGCAAGAGCAACCTGGAGAGACTTTGACAG |
| ex3_5983996_x1 | AJ609442.1/1-121 | 34 | 2E-14 | 67.9 | 1 | UGGUCAUUACCAAGGCUUUUAGAAUGCAGUUUCUCAUUUGCUGUGGACAUGACCAUAAAAAAAUUUCCCAGUAGGUUUUCUAUCUGCUACUUUGCUAGCAAUCAGCUUAUUGGGAACAGUU |
| ex3_5986614_x1 | CM000680.2/26689529-26689316 | 14 | 0.008 | 28.2 | 1 | AAGACTGTACGTTCCAAGATTGTTTCTATAGTTGGTTGTGAGAGAAGTTTCTCTGAACTTGCAGAGCACGGGAAACCAGGAGGAGGAGGCTCAGGGTGCTCTCCACACGTGTGAAACCGGCTGTGGGTGTTGCTTTCCTGTGACTGCCATTTGCCACTGATGATCTTCTCTTCCTCTGGAAGAGTAAGAGGGGGAAGGACACAGTTTCAGTGCT |

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| ex3_5987036_x1 | ENST00000391287.1 | 14 | 0.008 | 28.2 | 1 | ACTGCCCCTGGAGGCATTGCAGATGTGGCTGCTGTGTCACATTTGTGTCATTAGGTAGCA |
| ex3_5987979_x1 | BC021677.1/1965-1834 | 14 | 0.009 | 28.2 | 1 | GUGGAGGUCUAUUCCAAUGGGGCUUUUCCUGUAGCUGCAUGUUGUUGGAAACUCCUCAUAGACUAACUCUGUGGUUUUGCUUUACUCACAGGACUAUUAGUUAGGUCUGUGGGAAGGAACUACAAGACAGUU |
| ex3_5988219_x1 | ENST00000516313.1 | 14 | 0.009 | 28.2 | 1 | AAGATTCGACAGATACCCTACTGCCTCTCTTTGTGGCGGCGGGGCTCAGGCTGCAGCACC |
| ex3_5990453_x1 | ENST00000384171.1 | 14 | 0.009 | 28.2 | 1 | GGCCTCCTGGTACTTACCCACAGGCTGCGTTCTTACACTGGCTGTACAGAAAGAGGAGCT |
| ex3_5990464_x1 | AC079945.21/34878-35012 | 15 | 0.005 | 30.2 | 1 | CUCCAUGUGUCUUUGGAACCUGUCAGCUGUGGCAGUUGCCCUUCCUAGCCAUGGAAGAGUAAGUAUAUUCUUGUUUAUUGGCAAAGCUGUCACCAUUUCAUUGGUAUCAGAUUCUGACUUGCACAAGUAACAUUC |
| ex3_5990544_x1 | ENST00000384448.1 | 15 | 0.003 | 30.2 | 1 | GGCCTCCTGGTGCTTACAAGCAGCTGTGTGCTTGCATTGACTGTACAGAAAAAAAGAGAT |
| ex3_5991398_x1 | AL132709.5/142597-142509 | 14 | 0.008 | 28.2 | 1 | UGGACUGUUGAUGACAAGUGGUGGCUUAUGUGGUUGUACAUGCUGGUUGUAUAUGAAGAAUAUUACAUAUCUGAAACUUUGAGGUCCAA |
| ex3_5991833_x1 | ENST00000408792.1 | 14 | 0.008 | 28.2 | 1 | GCCGAGACTAAGTCGCATGCTGACACAGCTCTTGGTGTGCTACGGTACTTGGAGAGAATC |
| ex3_5993607_x1 | CM000671.2/137123608-137123509 | 19 | 0.003 | 30.2 | 1 | ATTTTTTGTAGTTCCTCAGTGTGATGATTTGGTTTCACACTCATGTGAGATGTGCTTTTCTCAAACCTTCTTACAAAGTCAGCGCCTTACCCATCTGACC |
| ex3_5995256_x1 | CM000663.2/220137164-220137266 | 14 | 0.008 | 28.2 | 1 | ATCCTTTTGTGATTCGTAAGCGTGATGATTGGGTTTTCGCACTATTGTGTGAGGTGTGCCTCCCTCAAACCTTGTTACAGTGTTGGCACATTGCTGTCTGAAG |
| ex3_59 | ENST0 | 16 | 0.001 | 32.2 | 1 | AAACGATGAACTCACCTAAAATAGCTGTAATAACCAGCAGATTATGTAATGGCAAACC |

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|---|---|---|---|---|---|---|
| 95771_x1 | 0000390927.1 | | | | | TA |
| ex3_5997722_x1 | CM000665.2/160696929-160697060 | 14 | 0.009 | 28.2 | 1 | CTGTGAATATTCTCGCTGTTCTGATTTTGTAATAATCACGATGGGCTAAACATTCGCAATATTAAGACCATGTATGTATCCCTAGACCTAGTTCTTTCCCCAGGTCTGGTTTTATAAATGCTGGTGATAAAC |
| ex3_5998109_x1 | ENST00000390993.1 | 15 | 0.005 | 30.2 | 1 | TTCAGATGATTTGAATTGATAAGCTGAGGTTCTGTGAGGAATGACAGTTAAGAGCATGTT |
| ex3_5999126_x1 | ENST00000390982.1 | 16 | 0.001 | 32.2 | 1 | TCAATAATGAAATCTTCTGATTTGGTGAGAAATAATGCCTTAAAATTACACTCAATAGGA |
| ex3_6001230_x1 | ENST00000458927.1 | 20 | 2E-06 | 40.1 | 1 | ACCCTTTTGTAGTTCATGAGCATGATGATTGGGTGTTCACACACATGTGTGAAATGTGCC |
| ex3_6003497_x1 | CM000682.2/36120962-36121072 | 19 | 0.005 | 30.2 | 1 | AGCCTTTGGTAGTTCATGAGCATGATGATTGGGTGTTCACGCATGGGGGTGAGATGTGCCGCCTTCAAACCTTGTTACAATGTACAATGTGAACGCATTACCTGTCTGACA |
| ex3_6004083_x1 | CM000675.2/99783983-99783857 | 23 | 0.003 | 30.2 | 1 | AGGTTATTTCAAAGAGGGCTCATGAGGCTATGAAACCAAGAACTCTTAATGCTATGACCAAAGATTGAAGTTCTCTATAGAATGCCATAGCACTCAATAATGTTATGTTTTCTTGAGGCATATAAGA |
| ex3_6004394_x1 | CM000664.2/8978895-8978999 | 14 | 0.009 | 28.2 | 1 | ATCCTTTTTTAATTCCTAAGTGTGATGACTGGGTTTCCACACTCATGTGTGAGATGTGCTTTCCTCAAACCTTTTTTACAACATCAGCACACTACCTATCTGTTA |
| ex3_6004445_x1 | CM000665.2/53283299-532831 | 16 | 0.0005 | 32.2 | 1 | ATCCTTTTGTACTTCTTAAGCATAAGGATTAGGTGTTCACACACAGGTGTGAGATGGGCCATCCTGAAACATTGCTACAATGTCGGCATATTACCTGTCTGACA |

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|  | 96 |  |  |  |  |  |
| ex3_6004465_x1 | ENST00000515906.1 | 15 | 0.003 | 30.2 | 1 | TTCACAATGTCTATTGAAGGATCTCATCACCTTTAGAGAGCTGTGGTCATGCCCCTTAAA |
| ex3_6005994_x1 | CM000663.2/207038800-207038694 | 15 | 0.002 | 30.2 | 1 | ATCCTTTTGTAGTTCATAAGTGTGATGATTGGGGTTTTGCACTTATGTGTGGGATGTGATGACTCTCTCAAACCTTGTTATGACATCAGCACATTACCTGTCTGATG |
| ex3_6006906_x1 | ENST00000363626.1 | 15 | 0.003 | 30.2 | 1 | CTGTCAGGTGGGATAACCCTTCCCTGTTCCTCCGTTTGGAGGGCAGATAGAACATGATGA |
| ex3_6007357_x1 | CM000675.2/21527900-21527800 | 15 | 0.003 | 30.2 | 1 | ATTTATTCATCTTAAGTGTGATGACTGGGTTTTCACATTGATGAGTGAGATGCGCCTCCCTCAAACCTTGTTTACAAGGACAACATATTGGTTGTCTGACG |
| ex3_6008297_x1 | ENST00000583665.1 | 29 | 1E-06 | 42.1 | 1 | TACTCCAGCCTGGATGACAGAGCCAGACTCTGTCTCGAAAAAAAAAAAAAAAAAGCTTAA |
| ex3_6008565_x1 | AC092324.3/97410-97533 | 16 | 0.0007 | 32.2 | 1 | AACCCCCUUUUCACUUUGCCAAUUGGACUUAUGUCUUUAUUGAUCAUUCAAGUGAGCAAAGGAAAUACGCUUUAAAAACUCAGGCAAACGGUGUUUGUCUUGUAUCCCGUCAGAGGAAACAAAU |
| ex3_6008835_x1 | CM000663.2/19532274-19532170 | 15 | 0.007 | 30.2 | 1 | ATCCTTTTGCAGTTCATGAGCATGATGATTGGGTGTTTATGTGTATGTGTGAGATCTGCCACTCTCTGAACCTTGTTACAACATTGTCACATTACCCGTCTAACC |
| ex3_6011511_x1 | CM000666.2/141297878-141297774 | 16 | 0.001 | 32.2 | 1 | ATCCTTTTGTAGTTCATGAGCATAATGATTGGGTGTTCGCATACATGTGTGAGATGTGCCACCCTCTGAACCTAGTTACAATGTGGGGATATTACCTGTCTGACC |
| ex3_6013182_ | ENST0000039 | 14 | 0.009 | 28.2 | 1 | TAGACGATACTTTCAAGGATCATTTCTATAGTTTGTTACTAGAGAAATTGCTCTGAATGT |

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|---|---|---|---|---|---|---|
| x1 | 1237.2 | | | | | |
| ex3_6014131_x1 | AC010325.7/131787-131697 | 20 | 2E-06 | 40.1 | 1 | GGGACCCCGUGAUGUCCAGCACUGGGCUCUGACUGCCCCUGAGGACACGGUGCACCCCGGGACCUUUGACAUCCGGGGUUCUGAGGGGCCC |
| ex3_6016036_x1 | ENST00000390893.2 | 19 | 0.002 | 30.2 | 1 | AAGACTATATTTTGAGGGATAATTTCTATAGTGTGTTTCTCGAGGAGTATATCTGAACGT |
| ex3_6017790_x1 | CM000679.2/2330370-2330276 | 35 | 7E-15 | 69.9 | 1 | TAGAGAAGTCAATGATGGTTTTATTCATATCGTCTGAACCTGTCTGAAGCATCTCAGTGATGCAATCTCTGTGTGGTTCTGAGACTTCTCCAAGT |
| ex3_6018992_x1 | CM000685.2/135212441-135212513 | 14 | 0.009 | 28.2 | 1 | AAGACTATACTTGCAGGGATCATTTCTGTAGTTGGTTACTAGAGAAGTTTCTTGTCTGTAGTTGGTTATTAGA |
| ex3_6019071_x1 | ENST00000363448.2 | 15 | 0.003 | 30.2 | 1 | AAGACTATACTTTCAGGGATCATTTGTATAGTTCGTTACTAGAGAATTTTCTCTGAATGT |
| ex3_6021684_x1 | ENST00000390971.1 | 16 | 0.001 | 32.2 | 1 | TGCACTTATGTATGTTTTTGTTTAAACTGTGGACAAAGACTTATGGATAAGTACAAAAAA |
| ex3_6022513_x1 | CM000673.2/133437039-133436938 | 18 | 5E-05 | 36.2 | 1 | GTGCTTCTGTGGTTCATAAGGGTGATGGCTGGGCTCATGCGGATGTGTGAGATGTGCTACCCTGGAAACTGGTTATGACGTCGGCACATTACCCATCTGACA |
| ex3_6022683_x1 | ENST00000516213.1 | 19 | 0.004 | 30.2 | 1 | CCACACAGGACGAAGGGTAGATATACTTGTACCAAATGAATGTTCAGCAATCTGAGATAA |
| ex3_6022906_x1 | CM000668.2/7539067-753988 | 14 | 0.009 | 28.2 | 1 | AATTCTATACTTTGAGGAGCCATTTTCATAGTTTGTTACTAGAGAAGTTTCTCTGAACATGGAGTGTACCAGAAAGCATGAGGAGGAAGTGCAGTGCTCTCGCCTTAGCTGTGAAATCAGTTGCTTCATTGTAACCACCATTTTTCATTGATGGCCCATCTTCTCTTCCTTTGGGAGAATAAGAAGGGGAAGATGCAGTCTGAGTGGT |

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| | 60 | | | | | |
| ex3_6024436_x1 | CM000664.2/62264995-62265098 | 14 | 0.008 | 28.2 | 1 | ATCCTTCTGTAGTTCATAAGCATCATGCCTGGGTTTTCGCGTTCCCATGTGAGCTGTGCCTCCCTCAAACCTTGTTATGGCATCGGCACATTATCCATCTGATG |
| ex3_6024612_x1 | CM000669.2/4689480-4689583 | 14 | 0.008 | 28.2 | 1 | ATCCTTTTGTTGTTCATGAGCATGACAATTGGGTGTTTTCATGCAGCGAGTGAGATGTGCCACCCTGGAACCTTGTTACGACGTCGCATGTTACCTGTCTGACC |
| ex3_6027527_x1 | ENST00000516390.1 | 15 | 0.005 | 30.2 | 1 | CTACAATCAATTAAGCCACATGGGACCTGGTGTGCAAGGGCTGCAAACAGCAGCATCCTA |
| ex3_6028018_x1 | CM000676.2/73799015-73799118 | 15 | 0.002 | 30.2 | 1 | ATCCTTTTGTAGTTCATAAGCATGACGATTGGCTTTTCACTTTCATGTGTGAGATGTGCCTCACTCAAACCTTGTTATATTGTCAGCACATTACCCATCTGATG |
| ex3_6030203_x1 | CM000667.2/29070496-29070610 | 14 | 0.008 | 28.2 | 1 | GAGGAGGTCCATTTTAAAAAAGAATAGATTGGAAATGCCTCATAGAGTAACTCTGTGGTTTTATTTTACCCACAGGACTATGGTTAAATATGTGGGAAAGAACTACAAGACAGTT |
| ex3_6030509_x1 | ENST00000516202.1 | 15 | 0.006 | 30.2 | 1 | AGGACGTCAAACCATCATAAAGTATAGATCTCCACAGGATGCCATAGTGAATAGTGCTAT |
| ex3_6031766_x1 | ENST00000362796.2 | 17 | 0.0001 | 34.2 | 1 | AAGACTATATTTTCAGGGATCATTTCTACAGTGCACTACTAGAGAAGTTTCTGTGAACTT |
| ex3_6032978_x1 | ENST00000364537.1 | 15 | 0.002 | 30.2 | 1 | CTTGCACCTAAACCCAAAGAATCACTGTTTCTTGAAGTGGTGGTTTAAACAAGGTGCAAA |
| ex3_6033639_x1 | CM000674.2/7716302 | 15 | 0.004 | 30.2 | 1 | ATCCTTTTGTGGTTCATAAGCATGATGATTGGGTTTCCACATTCTTGTGAGATGGGCCTCCCTCCAACCTTGTTATGATGTCAGCACATTACCCTTGACG |

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|---|---|---|---|---|---|---|
| | 5-77162926 | | | | | |
| ex3_6035158_x1 | ENST00000391256.1 | 15 | 0.004 | 30.2 | 1 | GTGCCTAAGGTTAACACAGCGCCTTAAGAGGCTAACACAGAAGGGCAAAGTAAGTCTCCA |
| ex3_6035463_x1 | AC011891.3/54747-54616 | 15 | 0.004 | 30.2 | 1 | ACACUCUCAGCUAUGUAUAGUUACACCUGGCUUCACUUGUGUGACUUUUGCAAUGGGAAGAGAGAGAGAAGGUCCCCUUGGUACCUCAGCUCGGCCUUAUGGUGGCCUCUUUCCUUGAAGGGUGCAACAAAA |
| ex3_6037202_x1 | AY270787.1/135-13 | 14 | 0.009 | 28.2 | 1 | ACUGGAGGACUAAGGAGGCUGGGUCUGAUGAGGCAAGAUUUUGCUGAUACAUUGCUCCUAGAAAAAAGGGUUGGCAAGAGCAGCCCUGGAGACUCACACGGCUGACUGUUCUACCCAACACUC |
| ex3_6041392_x1 | CM000674.2/12972053-12972143 | 14 | 0.008 | 28.2 | 1 | TACATTCCATGATGTCCAGCACTGGGCTCTGATCACTCCGGAGGACACAGTTTTCCCCAAGACCATGGCTACCTGGGGATCTGAGAGAAAA |
| ex3_6041594_x1 | ENST00000516361.2 | 14 | 0.009 | 28.2 | 1 | TGGACCAATGATGAGAGCATGTCACAAAACAAGGCTTATGATTAATCCAGTTCTGTACAC |
| ex3_6044034_x1 | AC069351.5/37957-38002 | 14 | 0.008 | 28.2 | 1 | AGCUGAAGAGCUGAUGAUGUUCCCCUAAAGCUGAAGCUCUUAAGCU |
| ex3_6044618_x1 | ENST00000362963.1 | 16 | 0.0006 | 32.2 | 1 | GGGTCGATGATGAGAACCTTATATTTTCTGAAGAGAGGTGATGACTTAAAAATCATGCTC |
| ex3_6046763_x1 | ENST00000386104.1 | 15 | 0.005 | 30.2 | 1 | CAGCACTGCCAAGTGACCCATTGGGCTCCATCTTGACCAACTGGGCATCAAGCGGTGCAA |
| ex3_6048989_x1 | ENST00000384520.1 | 15 | 0.002 | 30.2 | 1 | CTGAGAATATCTTGCTGTTCTGATTTTGTAATAGGACAGGCTATAAAGATTGGCTATATT |
| ex3_6049726_x1 | ENST00000363072.1 | 14 | 0.009 | 28.2 | 1 | TGGATCAATGATAAAACTTGCTGGCATATGAATCTTGGATAATGGATGATACGTGTGTGG |
| ex3_6049981_ | CM000667.2/5 | 18 | 0.009 | 28.2 | 1 | ATCCTTTTGTAGTTCATAAACAGGATGATAGGGTTTTCACATTTATTGTGAGATGTGCTTCCCTCCAACCTTGTTATGATGTTGATGCATTATCCATCTGATA |

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|---|---|---|---|---|---|---|
| x1 | 1321983-51322085 | | | | | |
| ex3_6053925_x1 | CM000669.2/66434507-66434618 | 15 | 0.004 | 30.2 | 1 | AGCCTCCCAAAGCACTGGGAGTGTGATGACTAGGTTTTCACACTGGGTTTTCATGTGTGAGATATGCCTTGCTCAAACCTTGTTACAGCACTGGCACATTGCCTGTCGGATG |
| ex3_6057238_x1 | CM000683.2/41604683-41604586 | 14 | 0.008 | 28.2 | 1 | TTCCCTGTGACACATCAGCAGGATGACTGGGCTTTCATCCTCCTGGGTGGGACATGCCTCCCTCAAGCCTTGCTGCTGGGCACATTATCTGTCCAACA |
| ex3_6057496_x1 | ENST00000517256.1 | 15 | 0.002 | 30.2 | 1 | AGCACTTGTGTTTGCTTTTGTTTGACTTGTGGACAAAGACTTATAGTAGACAGGCACGAA |
| ex3_6059775_x1 | CM000685.2/69692956-69693155 | 14 | 0.008 | 28.2 | 1 | AAGACTATACTTTCAGGGATCATTTCTATAGTTTATTACTGGAGAAGTTTCTTTGAATGTATAGAGCACTAAAAACCATATTATCTCCCAAGTGTAAAGCTGCCTCTTGGTGTTGGTTTACTTCAGTTGCCATTTGCCATTAATGATTGTTCTTCTTTTCTTTGGGGAGAATAAGAGACAGAGGACACAGTCTGGGTGGG |
| ex3_6060545_x1 | CM000685.2/47388649-47388777 | 14 | 0.009 | 28.2 | 1 | GGGGTGTGCTCAGAGCAGGGGGCCTGAAGAATGCTTCTTCTGTTTACAACACACCCAATAGGAATCTGGGGTCATTGTGACGGGGGGCACAAAACTTGTGACCTCTCTATGAACAAATGCCCCACATGT |
| ex3_6060784_x1 | AC092184.7/50327-50196 | 15 | 0.005 | 30.2 | 1 | UUGUCCUGGCCUAGGCCAUUUCUGCUCCCCCGCGCUCAGUCCUAGCAGAGUAGUCUGGCAGGACGCACAGCAAUCUCCCUCUCAGUUUAGGAGGGCCGUCUCCUAAGAAUAGGGCUGGCAGGAAAGGACAAU |
| ex3_6062185_x1 | ENST00000364329.1 | 16 | 0.0005 | 32.2 | 1 | GATCAATGATGAAACTAGCCAAATCTGAGCATCAGAAGTCTTTCCAGTCTACCTGATGCA |
| ex3_6062229_ | ENST0000039 | 17 | 0.0003 | 34.2 | 1 | AAGATTATATTTCCAGGGGTCATTTCTGTGGTTCATTACTTAAAGGAGTTTCCCCAAGTG |

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|---|---|---|---|---|---|---|
| x1 | 0909.2 | | | | | |
| ex3_6062545_x1 | CM000669.2/132753023-132753126 | 15 | 0.003 | 30.2 | 1 | TGCTGGAGTGATGAAAAAGTATCTTCAGGTGTGGCTGTGGCCACCTTGGCCACCTGTGTGTCACTTGCCAATGCAAGGACTTGTCATAGTTACACTGACTGTTA |
| ex3_6064328_x1 | CM000668.2/24166273-24166374 | 14 | 0.008 | 28.2 | 1 | CTCGAGGGTGATGAAAAAGCATCCCTAGGTGTGGTTGTGGCATCTTGGTCACCTATGTGCCACCTGCCAGTGCAAGGATTTGTCATAGTTATAGTGACCGTG |
| ex3_6066079_x1 | CM000685.2/133152754-133152892 | 15 | 0.004 | 30.2 | 1 | TGCACTGCGTGGTATCTGCACTCAGCAGTTTACTCCTGCTAGGGTGTTCAAAGGTCAGTGCCATAGAAATCCAGTATCTGGTTTCATTGGTTTTCTTGGCTTTGTGCTTGTTAAACCTGGTATTTCTATTGATACAGCA |
| ex3_6066291_x1 | CM000679.2/19662000-19662090 | 14 | 0.009 | 28.2 | 1 | CTGATTCTTTGTACTAGGATGCAAAAGAAAACAATCCTTGTGCCTTCTATCTCTCTTGGTGGCAGCCCAGATTGAATTGGGGAATACATCT |
| ex3_6067389_x1 | ENST00000362451.1 | 19 | 0.002 | 30.2 | 1 | AGGTTGTGATGAATTGCTTTAATTTCTGACACCTCATATGAAAGCTGCACTTGCAGTCTT |
| ex3_6068998_x1 | ENST00000391265.1 | 15 | 0.003 | 30.2 | 1 | CCTCCTTTTCTTGTCAGGGACTGAGTGTGTGGTCCTGCTCCTGTTATGTATGGAGGCAAA |
| ex3_6071810_x1 | CM000669.2/98885090-98884990 | 14 | 0.009 | 28.2 | 1 | ATCCTTTTGTAGTTTGTAAGGGTGATGATTGGGGTTTCATGCTTATATGTGAGACATGCCTCCCTCAAACCTTGTTATGTCAGCACATTACCCATCTGATG |
| ex3_6077303_x1 | CM000685.2/1205443 | 14 | 0.008 | 28.2 | 1 | ATCCTTTTGTAGTTGAGAAGCATGATGATTGGGTTTTTATGCTCATATATGAGATGTGCTTCCTTCAAACCTTGTTATGACATCAGCACATTACCTGTCTGATG |

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|---|---|---|---|---|---|---|
|  | 15-120544418 |  |  |  |  |  |
| ex3_6079394_x1 | ENST00000516468.1 | 18 | 0.009 | 28.2 | 1 | GGATTGACGATGACTTTAAAAAAAAAAAATCTCATTGAAATCTGAAAAAAATGAGTGACC |
| ex3_6084257_x1 | AC026161.4/89260-89123 | 14 | 0.008 | 28.2 | 1 | GCUGUCCUGGACCUGCCAGCUGCACAGAUGCAGAUGCUCUGCUAUGCCUGUAACAUCGGGGCGAAGUGAAAGUGGCUAUUUCUACACUCAGUUUUCAGAAAACAGUGAACAACAAGAAUGGAUAAUAGCCUGACAUUU |
| ex3_6084583_x1 | ENST00000516910.1 | 14 | 0.009 | 28.2 | 1 | GGAAAGGTTACTAAAAGAACACTGCATTCCTGTAGCCTGCACGTCCTTAGAAACACCTCA |
| ex3_6085393_x1 | CM000668.2/34692780-34692883 | 15 | 0.004 | 30.2 | 1 | ATCCTTTTGTAATTCAGATGCGTGATGATTGGGTGTTTACATGCATGTATGAGACGTGCCAACCTTGAATCTTGTTATATAACGTGCACATTACCCGTCTGACA |
| ex3_6085660_x1 | AC026222.5/26043-25912 | 15 | 0.003 | 30.2 | 1 | GGCCUCUCAGUUCCGCUUAAUCACACAGGUCCAGUGUGUGCUUGGUGUCUUUUCUGGGAGGCAGAGGAAGGCUCUCCUAAUCACAACAGACCUGCCCAGAAGGGCCUCUCUAUUUCUAGGAGUAUGAUAGCU |
| ex3_6086113_x1 | CM000670.2/129868716-129868590 | 16 | 0.001 | 32.2 | 1 | AGGATATATCAAAGAGACTTTCTGGGGCTGGGAAACCAGGATCTCGTAATGCTATGACCAAAGATTGAAGTTTTGCATAGGATACCGTAGTCACTCAGTAGTGCTGTTTTCCTGAGGAAATACAAGA |
| ex3_6086610_x1 | CM000668.2/42505606-42505500 | 15 | 0.003 | 30.2 | 1 | ATCCGTTTGTGATTCATAAGGGTGATGATTGGGTTTTCATGCTAATATGTGAGATGTGACTCCTTCAAACTTCCTTGTTATGACATCAGCACATTACTCATCTGATG |
| ex3_6086874_x1 | ENST00000365579.1 | 14 | 0.009 | 28.2 | 1 | AGGCAGGTACTGTTAGAATATAACTGAAGTGTTTTATTGTTATTGTCATTGCTTAAAGCA |
| ex3_6087337_ | CM000663.2/3 | 19 | 0.002 | 30.2 | 1 | ATCCTTTTGTAGTTTGCAAGTGTGATGATTGGGGATTCACACTCGTATGTGAGATGTGTCACCCCCGAACCTTTTCACGTTGGCAAAATACCCATCTGACA |

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|---|---|---|---|---|---|---|
| x1 | 7750202-37750302 | | | | | |
| ex3_6088084_x1 | CM000674.2/50488566-50488484 | 18 | 3E-05 | 36.2 | 1 | AAGACTATACTTTCAGGGATCATTTCCATAGTTTGTTACTAGAGAAGTTTCTCTGAGCATGTGGAGCACTGAAATATCTAAGA |
| ex3_6088561_x1 | CM000684.2/22517780-22517875 | 16 | 0.0008 | 32.2 | 1 | ATCCTTTTGTGAGGATAAGCGTGATGCTTGGGTTTTCACTCATGTGAGATGTGCTTCCCTCAAACCTTGTTATATCAGCATGTTTAACATCTGATG |
| ex3_6089355_x1 | ENST00000459332.1 | 14 | 0.008 | 28.2 | 1 | GCTTAATGATGAGAATCATTATTTCTTGAATTGGATGACACTTTCCATTCCTGCAAAGGG |
| ex3_6090811_x1 | ENST00000384249.1 | 15 | 0.004 | 30.2 | 1 | GGCCTCCTGGGATCCCATCTGGAAAGTGCTTAGTATTCTGCCTGCTTCACAAAGGGAGGG |
| ex3_6096143_x1 | CM000685.2/124197743-124197849 | 15 | 0.003 | 30.2 | 1 | TGTAACTTGTGGACAAGGCTTATTGACAGGTGCAAAAAATAAATAATCTTTTGCCACTCAGAACTCATTGTTCAGTATGAGTTTTGATACACATAAGAAGGAATATT |
| ex3_6096539_x1 | CM000665.2/72572965-72573068 | 15 | 0.005 | 30.2 | 1 | ATCCTTTTGTAGTTCTTGAGTGTGATGATCGGGTGCTCACACTCATGTGTGAGATATGCCACCCTCGAACCTCATTTTGAAGTCAGCACGTTACCTGTCTGACA |
| ex3_6097634_x1 | ENST00000410213.1 | 15 | 0.005 | 30.2 | 1 | TCAGCTTGAGTCACTCTTCCCAGGCTTTATCCAGGTGGCTTAGGTTAGCTAGGGCTGTGT |
| ex3_6104312_x1 | AC094019.2/47367- | 20 | 2E-06 | 40.1 | 1 | AGGUCAUUUCAAAGAGGUCUUGUGAGGCUGUGAAACCAAGAGCUCUUAACACUGCGACCAAAGAUGGAAGUUCUCUAUAGGAUGCCAUGGCAUUUGAUGGUGCUAUGUUUUCUUGAGGAGAUAUAAGA |

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|  | 47494 |  |  |  |  |  |
| ex3_6106739_x1 | ENST00000516618.1 | 15 | 0.005 | 30.2 | 1 | TATAAATGTGATGAATTGCACACTCGCAGAGTCATAGCATTAGGGGATGCAGGCAGTGTT |
| ex3_6107625_x1 | CM000668.2/103583135-103583268 | 16 | 0.0007 | 32.2 | 1 | AAGCTAGCCAATGAATCTGCTTACCTAAACATGTTTCTGCAGAAATTTTTATTTTAAAAAGCTGGTAATAGTAAAGCCATTTATGAGCCTTAAGTATATTGAAGTTGTTAAGATCCCTGAAAATGGCTATAACA |
| ex3_6108129_x1 | CM000665.2/111879415-111879311 | 14 | 0.009 | 28.2 | 1 | AAGACTATACTTTCAGGGATCATTTCTATACTTCATTACTAGAGAAGTTTCTCTGAATGTGTAGAGTACCAACTTCTACGCAAATAAACTAGAAAATCTAGAAGA |
| ex3_6109950_x1 | CM000683.2/36258531-36258426 | 15 | 0.004 | 30.2 | 1 | ATTCATCTGCAGTTCATTAGTGTGATGATTGGGTGTTCACGCACATGCGTGATATGTGCCACCCTCAAACTTTGTTACAATGGTCGGCACATTGTCTGATGTGAAA |
| ex3_6113292_x1 | CM000664.2/100577469-100577557 | 15 | 0.003 | 30.2 | 1 | CTCATTTTGTGGTTCATAAGTACGATCACGTATGTGAGATGTGCCCCCCTCAAATATCGTTAGGCTGTTGGCACATTACCCATATGACA |
| ex3_6114708_x1 | CM000671.2/38147428-38147561 | 15 | 0.005 | 30.2 | 1 | TCGATGGGTGGGATAATCCTTACCTGTTCCTCGTTTTGGAGGGCAGATAGAACATGATGATTGGAGATGCATGAAATGTGATTAATGCCTCTGCCTAATCAGGACTTGCAACACCCTGAGTACTCCTCTCTGAT |
| ex3_6114805_x1 | CM000677.2/25099499-25099594 | 33 | 8E-14 | 65.9 | 1 | GGATCGATGATGACTATAAAAAAAATGGATCTCATCGGAATCTGAACAAAATGAGTGACCAAATCATTTCTGTGCCACTTCTGTGAGCTGAGGTCC |

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|---|---|---|---|---|---|---|
| ex3_6115069_x1 | CM000672.2/104399790-104399903 | 14 | 0.009 | 28.2 | 1 | ATATAATTGCAATTAATAATTACATGATTTGATCTTGACTGGGTGTTCACATGTATGTGTAAGATATGCCTCCCTCAAACCTTATCACGATGTCGGCACATTACCCATCCAACA |
| ex3_6115982_x1 | CM000663.2/171768070-171768175 | 15 | 0.003 | 30.2 | 1 | CACCCCTTTTCTCCTCAGCCAAGGCTAGAGGCCAAGATCAGCCCTCAGGGATCATCATCAGGACTGCCATGAGCTGAGCTGCCTTGTTTTCCTGCCGCAAACATGT |
| ex3_6117829_x1 | CM000665.2/80628073-80627961 | 15 | 0.002 | 30.2 | 1 | GAGGAGGAGATATTTGTGTTCTCTCATGAGCGTGAAAACAGCGTTTGGTGTTGCGTTATTCCAACTGCCATTTGCTATTGGTGATCGTTCTTCTCTAGAGAATGCGCAACCTA |
| ex3_6120865_x1 | ENST00000362981.2 | 14 | 0.009 | 28.2 | 1 | AAGACTATACTTTCAGGGATCATTTCTACATTTCCGGGTAATTTCTTTGAACATGTGGAG |
| ex3_6121251_x1 | ENST00000391069.1 | 15 | 0.004 | 30.2 | 1 | GGTCATATAAGTAGAAACCACTGAGTGAATCTTACTAGAAAAGTGAATGGCCATTCTTGG |
| ex3_6122281_x1 | ENST00000581669.1 | 14 | 0.008 | 28.2 | 1 | TGCTGGTGGTGAAGCTCCCTCTCTCCGAGCACTGGGCCCTGCCTGGGGTAAGGCT |
| ex3_6122703_x1 | CM000670.2/84919913-84919818 | 14 | 0.009 | 28.2 | 1 | AGACTCAGTGAATGTGATGATTGAATTTTCACACTCATGTGTGAGATGTGCCTCCCTCAAATCTTGTTATGATATTGGCACATTACCTGTCTAACA |
| ex3_6123259_x1 | ENST00000516319.1 | 14 | 0.008 | 28.2 | 1 | ACTCCATGATGAACCCAAAATGCCAAGTATATGACTGAACTTACAAGTGATACCATCTTA |
| ex3_6129116_x1 | AC092590.2/35181-35054 | 14 | 0.009 | 28.2 | 1 | AGGCCAUUUUAAAGAGGGCUCAUGGGACUAUGAAACCAAGAGCUCUUAAUGCUGUGACCAAAGAUUGAAGUUCUCUAUAGGUUGCCAAAGCACUCAGUGGUGCUGUGUUUUCCUGAGGAGAUAUAAGA |

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|---|---|---|---|---|---|---|
| ex3_6129816_x1 | CM000674.2/101358849-101358748 | 14 | 0.009 | 28.2 | 1 | ATGCTTCATAATTTATAAGTGTGATGGTTGGGTTTCTATGTTTATGGGTGAGATATGTCTCCCTCAACCTTGTTACAACAGTTGGGCATTATCTGCCTGATG |
| ex3_6132896_x1 | CM000670.2/101847360-101847256 | 16 | 0.001 | 32.2 | 1 | ATCCTGTTGTAGCTCATGAGCGTGATAATTGGGTGTTCATGTGCGTGTGTGAGATGTGCCACCCTCTGAACCTTGTTACGACATTGGCACATTACCTGTCTGACC |
| ex3_6135498_x1 | ENST00000516084.2 | 14 | 0.008 | 28.2 | 1 | TCCATTTCAGAAAGCCGAGGTCAAAATAATGAGTCCTGGGGAATTCAAACTTGTGTTAAG |
| ex3_6136471_x1 | ENST00000459536.1 | 18 | 0.008 | 28.2 | 1 | TTCTCATGTGGGATAGTTTTCACTTGTTCCTTCCTTTGGAGGGCAGATTAGAACATGATG |
| ex3_6136508_x1 | CM000674.2/114737704-114737798 | 14 | 0.009 | 28.2 | 1 | CACTCCCCTTTCATTTTACCATTGAGGCTTATGTCTTTATTGGTTGTTCAAGTAGGGCAAAGGAAATGGCCTTTTAAAACTCAGAGGCCAGGTAC |
| ex3_6137313_x1 | ENST00000391316.1 | 15 | 0.002 | 30.2 | 1 | TTCTTACAAATCTAAATGTGCTTTGATGCAAGTATATTTGAATCCCTTTCCATCTGATAA |
| ex3_6137856_x1 | ENST00000391130.1 | 15 | 0.006 | 30.2 | 1 | GCCATGATGCTCTTCGGTTTAGGAGCAATTAAAATGACTACAGATTGGTGGCAGTTTATG |
| ex3_6138718_x1 | ENST00000516639.1 | 15 | 0.004 | 30.2 | 1 | AAGCAGAACTCAGACTACAATATAGCCGTCAACTGCTGTTTTGTCATATTCTCTGCTCAA |
| ex3_6139213_x1 | CM000677.2/45215033-45214906 | 14 | 0.009 | 28.2 | 1 | GGGATGTGCTCAGAGCAGGGGGCCTGAGGAATGGCTCCTCTGTTTACAACACACCCAACAGGAATCTGGGATCATTGTGACGAGAGGTACCAAAACTTGTAGGCTTCCTACGAACAAACTGTACATGT |
| ex3_61 | AL132 | 34 | 2E-14 | 67.9 | 1 | UGGACCAGUGAUGACCACUGGUGGCAUAUGAGUCAUACACAUGAACACCAUGUUU |

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|---|---|---|---|---|---|---|
| 40472_x1 | 709.5/151720-151647 | | | | | CUAGAACUCUGAGGUCCAA |
| ex3_6146245_x1 | CM000684.2/33704920-33704786 | 22 | 1E-07 | 44.1 | 1 | GCACTGCTTTAGAGCCTCTGCGTGTCTGGCTGTGGCCTCAGGGGTCTAGCAGCAGTGCTAGAGCAGACCCAGCTTGTCAGATCCGGGGCTGCTTAGAGGCCACCTAAGTGATTCCTTTGGCAGCAAGCAACATTC |
| ex3_6149277_x1 | CM000675.2/99784157-99784054 | 15 | 0.005 | 30.2 | 1 | ATCCTTTTGTGGTTCACAAGCATGATGATTGACTTCTCATGCTATTGTGTGAGATGTACCTCCTTCAAATCTTGCTGCAACGTTGGCACATTACAGATCTGATG |
| ex3_6152853_x1 | CM000684.2/42076161-42076058 | 14 | 0.009 | 28.2 | 1 | ATCCTTTTGTAGTTCATGAGCGTGATGATTGGGTGTTCACATGCATGTGTGAGCTGTGCCACCCTCGAACCTTGTTACCATGTAGGCACATTACCGATCTGACA |
| ex3_6152957_x1 | CM000663.2/236300980-236301051 | 16 | 0.001 | 32.2 | 1 | ATCCTTTTGTAGCTCATAAGCATGATGATTGAGGTTTCACACACATTAATGAAATGTGCCTCCCTCAGACTG |
| ex3_6153058_x1 | ENST00000364671.1 | 14 | 0.008 | 28.2 | 1 | AGCCTCTTTCTAGATGAGAATGGGCACTGTCGATCATGGTGTCTGAAAATTGTAAGTGGC |
| ex3_6155092_x1 | ENST00000390859.1 | 14 | 0.008 | 28.2 | 1 | GGATTTATAATGAGCTGTGTTTACTGAGCATTATGAAGTAAAGTTCAATATGATTACTCT |
| ex3_6155270_x1 | ENST00000364939.1 | 18 | 9E-05 | 36.2 | 1 | TCATCAGGTGGGATAATCTTTTCCTGTTCTTCCTTTTGGAGGACAGATTATAACATGATT |
| ex3_6157588_x1 | ENST00000391263.1 | 15 | 0.002 | 30.2 | 1 | GTCGCACTTAAACTTAAGACTCTTTTTCTTGCAGCAGTGGTTTAAACAGAGGAACAAACA |
| ex3_61 | CM000 | 14 | 0.008 | 28.2 | 1 | TATGGCCTTTATCAAAGCTGCAGCTGCTTCCATGTAGCTGCTGTGGTCAAAAAGAAG |

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|---|---|---|---|---|---|---|
| 58143_x1 | 663.2/212352816-212352950 | | | | | CCAAGAGTGACAGTTTTCCTTGATGGTCATAGTTCTGTTTGCTGTAACTGATCTGCAAGATTTTGGGAAAATACCATT |
| ex3_6162227_x1 | CM000666.2/158909442-158909373 | 15 | 0.002 | 30.2 | 1 | TGGCATGATTTTAAAGCTGTTTCACCCGAGTACACAGCAGGGAAGCCATCCTTGGAGAGCTGAACATGCA |
| ex3_6162920_x1 | AC016394.13/8497-8370 | 16 | 0.0005 | 32.2 | 1 | GGGGUGUGCUCAGAGCAGGGGGCCUAAAGAAUGGCUCCUCUGUUUAUAACACACCCAACAGGAAUCUGGGGUCAAUGUGAUGAGAGGCACAAAGCUUGUGGCCUCCCUACAAACAAAUGCCUACAUGU |
| ex3_6163229_x1 | ENST00000384516.1 | 25 | 3E-09 | 50.1 | 1 | GGATCGATGATGACTTAAAAAAATGGAAACCTTGGAAATCTGAACAAAATGAGTGACCAA |
| ex3_6163619_x1 | ENST00000363536.1 | 15 | 0.002 | 30.2 | 1 | TGGATCGATGATGACTACTGGTGGCGTATGAGTCATAGACAATGAATACGTGTCTGGAAC |
| ex3_6164089_x1 | CM000672.2/45984610-45984810 | 14 | 0.008 | 28.2 | 1 | TCCAGCAGTAGTCAGCTGTCTGGACAGAACCATTCCTGGGATCATGTTACACTGCTGGGAGAAGAATGTCTTCTCTTCATCCAGTTGCGTCCATCACTGTTCTGGTGGTGTCTGGCACTGGTGCAAGGCAGAACTGTGCTTCCTTGAGAGTGTGCTGAGCATTCACCTTGGCTGCTTGGTTCTAGTCTAGGAGCAGACACA |
| ex3_6168713_x1 | ENST00000516728.1 | 15 | 0.004 | 30.2 | 1 | TATATCTATTTGAGAGACCTAGTACAGTTACTGTCTGTGGCTGAGGTTTCCACTACAGAT |
| ex3_6171797_x1 | ENST00000517079.1 | 14 | 0.008 | 28.2 | 1 | ATGCCTCTATTTGACACATGAAACAGTTACTGCCTGCTGCTATGGTTTCCACTACAGATG |
| ex3_6171970_x1 | CM000669.2/29912528-29912632 | 20 | 2E-06 | 40.1 | 1 | ATCCTCTTGTAGTTCATGAGCGTGATGATTGAGTATTCATGTGCATGTGTGAGATGTGCCACTCTCTGAACCTTGTTACAACCTTGGCACATTACCTGTCTGACC |
| ex3_61 | CM000 | 15 | 0.004 | 30.2 | 1 | AACCTAAACATGACAACTGGGTTTTCATGCTATTGCATGATACCTGCCTCCCTCAAAA |

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|---|---|---|---|---|---|---|
| 72722_x1 | 678.2/11467641-11467729 | | | | | CTTGTTACATCATCATATCACTCACCTGATA |
| ex3_6173830_x1 | ENST00000363367.1 | 14 | 0.008 | 28.2 | 1 | CTACAGATATTTTCTGAATTGGCAAGTCCACCAAGAAACTATAAAAATGTGTGTGTGCAA |
| ex3_6174619_x1 | ENST00000516440.1 | 15 | 0.006 | 30.2 | 1 | GTTGAGGTCTAACACGATAGGGCTTTATCTGTAGCCACACCATCTGGAAACATCTAGTGT |
| ex3_6176284_x1 | ENST00000516331.1 | 15 | 0.005 | 30.2 | 1 | CTCCAATGAGGAGGAAACATCCTGCCTTACCCCTGTTTTAGCCTGGGAACCAGTAATTGT |
| ex3_6177251_x1 | CM000663.2/1670414 35-167041536 | 16 | 0.001 | 32.2 | 1 | TTGCTTTTGTAGCTTAAGTGTGATGATTGAGTTTGTATGTGCATGTGTGAGATGTGCCACCCTCGAACCTTATTATAGCATGGGCACATTACCCATCTGACA |
| ex3_6181508_x1 | CM000663.2/174200230-174200129 | 14 | 0.009 | 28.2 | 1 | ATCCTTTTGTAGTTCATAAGCATGATAACTGGGTTTTCACACACATATGAGATGTGCCTCCCTCAAACCTTGCTACAGCATTGGTACATTATCTGTCTAACA |
| ex3_6181589_x1 | ENST00000390873.1 | 18 | 0.009 | 28.2 | 1 | GGTTGTGGTGGTTTTCTTTCTGGTACATTTGTTAAGTTTTCAAATGAGCCTAACTCTGCC |
| ex3_6182930_x1 | ENST00000391313.1 | 19 | 0.004 | 30.2 | 1 | CTGTGATGATGGCATTTCTTAGGACAATTTTGGATTAATTATGAAAACAACTACTCTCTG |
| ex3_6182962_x1 | CM000673.2/66152621-66152725 | 16 | 0.0007 | 32.2 | 1 | ATCCTTTTGCAGCTCATGAGTGTGACGATTGGGTGTTCATGCATGTGTGTGAGGTGTGCCACCCTCTGAACCTTGTTACAACATCAGCACATTACGTCTCTGAAC |
| ex3_6183056_ | CM000676.2/5 | 15 | 0.004 | 30.2 | 1 | CTGCAGCTAGTTAACCTGACTTGTCCACCTCCCTGCTGGGGGCTCAGTGTGCAATGGTTGCAAAATGGAGATTCCCTGGTTGTGTATACACCTCATTTCTTGAATGTGTTGCTT |

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|---|---|---|---|---|---|---|
| x1 | 1244090-51244224 |  |  |  |  | TAAGGGTTCTTGAAGACATTA |
| ex3_6183216_x1 | CM000663.2/51231356-51231253 | 14 | 0.009 | 28.2 | 1 | ATTCTTTTGTAATTCATAAGCATGATGACTCGGTATTCACGTGCATGTGTGAGATGTGCCACCCTGGAACCTTGTTGCAACGTCAGCACATTATGGGTCTGACA |
| ex3_6184102_x1 | CM000664.2/75627953-75628168 | 14 | 0.008 | 28.2 | 1 | ATCTTTATACTTTCAGGGATCAATTCTATAGTAGGTTACTAGAGAAATGTTTCTGAACAGAGTAGGGGGAGAAATCTCAATGAAAAGCTGCAGTAGCTCTCCTGAGCATGAAGCTGGCAGGTGGTGCCACCTGGTGGTAGCCACTGCTTGCTGTCGATGACCGTTCTTTGCTCCTTGGACAAGGATAAGAGAGAGAGAGAACACAAGCTGCGGGTT |
| ex3_6184107_x1 | ENST00000579231.1 | 25 | 1E-06 | 42.1 | 1 | TACTCCAGCCTGGATGACAGAGCCAGACTCTGTCTCGAAAAAAAAAAAAAAAAGCTTAAT |
| ex3_6184117_x1 | CM000672.2/58238760-58238657 | 15 | 0.002 | 30.2 | 1 | ATCCTTTTGTAGTTCATAAGCACAATGATTGAATTTTCATGCTCATGTGTGAGATATGCCTCACTCCAGTCTTGTTACAGTGTTAGCACATTACCTATCTGATA |
| ex3_6184217_x1 | ENST00000363782.1 | 14 | 0.009 | 28.2 | 1 | AGATCATTTCAAAGAGGGCTCGTGGGGCTATGAAACCATGAGCTCTTAATGCTATGACCA |
| ex3_6185060_x1 | CM000663.2/224179641-224179767 | 15 | 0.002 | 30.2 | 1 | TTTAGAATGTCAAAATTGATTTTGTAATAGTCAGGACAGGATAAACAGTCGCTATATTAAGACCATGTACGTGTCCCTAGACCTAGTTCTTTCCCTACGTCTGTTTTTATAAATGCTGGTGATAAAC |
| ex3_6187252_x1 | CM000663.2/173660200-173660097 | 14 | 0.009 | 28.2 | 1 | ATCCTTTTGTAATTCATAGGTGTGATTATTGGGTTTTCATGCTCATGTGTGAGAGGTACCTCCTTCAAACCTTGTTACAACACGGGCACATTTCCTGTCTGTTG |

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|---|---|---|---|---|---|---|
| ex3_6189662_x1 | CM000666.2/40082983-40083106 | 14 | 0.009 | 28.2 | 1 | AGCCACCGCACCCGGCCGGGCTGTATTCTTACACTGACTGTATAGAAAGAGGAGATAGAGTAAACCTACCCCGTATACTTCAGCCCACGCCCTGTGCCTGTTCTGTATTATGAAGCGGGGTTGG |
| ex3_6193266_x1 | ENST00000459339.1 | 15 | 0.003 | 30.2 | 1 | CTGTGTGTAGAAATGTTTGCTCCTCTATCCTTTGGGAACAGGAATACATTCATAACATGC |
| ex3_6193759_x1 | CM000679.2/2655679-2655782 | 15 | 0.002 | 30.2 | 1 | ATTCTTTTGTAGTTGCTACGTGTGACGACAGGGTGTTCACACACATGTGTAAGATGTACCACCCTCCAGCCTTGTTACAATGTCGTCACATTACCCGACCGATG |
| ex3_6195510_x1 | CM000666.2/17320882-17320746 | 19 | 0.004 | 30.2 | 1 | GGCTTCTCATTGAGCTCCTTTCTGTCCATTGATGGCAGTTGATGGATTTGCATGAGAAGAAGAGAGAATTCACAGAACTAGCGTTATTTTACTTTCTGTCTTTACAGAGGTATATTTGGCTGTTTTGTGAGACATTC |
| ex3_6196875_x1 | ENST00000383923.1 | 24 | 1E-08 | 48.1 | 1 | CTGCAGCCTATTAAGCCAACTGAGTTCCTTTCCTCATGGGGGGGCCCAGTGTGCAATGGC |
| ex3_6197314_x1 | CM000663.2/5680952-5681026 | 15 | 0.002 | 30.2 | 1 | CTCAGCTGGGCTTTTTTTAAGTAACAAGTGACTGGGCCACTGACATGTAAAGAGGGAAGTGAGGTGCTCCTGGAG |
| ex3_6197636_x1 | CM000674.2/93265732-93265629 | 16 | 0.0009 | 32.2 | 1 | ATCCTTTTGTAGTTCATAAGCATGATAATTGGGTTTTCATGCTCATGTGTGAGCTGTACCTCCCTTAAACCTCGTTATGATGTTGACACATTACCTGTCTGACA |
| ex3_6202566_x1 | ENST00000363572.1 | 15 | 0.004 | 30.2 | 1 | GGTCAATGATGTCGTGGCATGTATCAGCTGAATCCAAAGTTGATGTGAGTTCCAAAATTA |
| ex3_62 | ENST0 | 14 | 0.009 | 28.2 | 1 | TTGATCTACCTCTGATGAAACCTGTGTTGGTGGGGACATCTGAGAGTGTTGATGAAT |

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|---|---|---|---|---|---|---|
| 05430_x1 | 0000364129.1 |  |  |  |  | GCC |
| ex3_6214202_x1 | CM000677.2/32895200-32895301 | 17 | 0.0002 | 34.2 | 1 | ATCCTGAGATTCATGAGTGTGATGGATTGGGTGTTCGTATGCATGTGTGAGATGCGCCACCATTGAACCTTGTTAAGATATGGACACATTACCTGTCTGACA |
| ex3_6214418_x1 | CM000685.2/113001128-113001019 | 14 | 0.008 | 28.2 | 1 | ATCCTTTTGTGGTTCATGAGTGCGATGATTGGTTTTTCACACATATATGTGAGATGTGCCTCCCTCAAACCTTGTTAGGAGTAGAAGGTAGGCACATTACCTATCTGACG |
| ex3_6215927_x1 | CM000664.2/75489576-75489710 | 18 | 0.008 | 28.2 | 1 | CTGTGTGTAGAAATGTTTGCTCCTCTATCCTTTGGGAACAGGAATACATTCATAACATGCTACATGTAAAAAGGACTCCCCAGGGTGGCCAATCTTATGGTAGAGGTTGTATGGTAATATATTTCTCCTTCATAA |
| ex3_6217519_x1 | AC099331.2/140721-140854 | 15 | 0.002 | 30.2 | 1 | AGACUCCCAGCUCUGCCCAGUUACACUAGGCUUCGCCUGUGUGGCUUCUGUAAUGGGGAGGGAGAGAAAGGAUCUCCCCAGGACCUCAGAUUGGCUUUACUGUGGCAUCUCUUUCCUUGAGGGACACAAUAGGU |
| ex3_6218426_x1 | CM000663.2/228652436-228652560 | 14 | 0.008 | 28.2 | 1 | GGCCTTTTGGTGCTTACCACAGACTGTGCTCTTTCACTGACTGAATAGAGAGAGGAGGCAGAGTAAACCTATCCTATATACACCTCAGTCCAAGCCTGGTCTGTATTATGAATGGGGCAACATGG |
| ex3_6222057_x1 | ENST00000384772.1 | 14 | 0.009 | 28.2 | 1 | TGGTTGTTACCAAGGCATTTAGCATGCAATTTCTCATTTGCTGTGGACACGACGAGAAGA |
| ex3_6223312_x1 | ENST00000362604.1 | 15 | 0.004 | 30.2 | 1 | AACCCCCTTTTCACTTTGCCAATTGGACTTATGTCTTTATTGATCATTCAAGTGAGCAAA |
| ex3_6228538_x1 | CM000685.2/124928519- | 14 | 0.008 | 28.2 | 1 | AGCCTTGGAAACTGACTCAAACAATAGGTTTTCATATTTATGTGTGAGATGTGCCTCTTTCAAACCTTGTTACAACTTTGGCACATTACCCATCTGATG |

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|---|---|---|---|---|---|---|
| | 124928617 | | | | | |
| ex3_6232579_x1 | AC092814.2/136717-136838 | 14 | 0.008 | 28.2 | 1 | AUGCCCUUUUAAGGUUGAUGUGGUGCUUUAAGAAGCUAACAUAGAAGGAUAAAGUAAGUCUCUACAAAACCCAGAGAAGAGACUGGAAAACUCCUCUCUGGAUCCUGCCUGGAGUCACAGCU |
| ex3_6232934_x1 | ENST00000391251.1 | 18 | 0.009 | 28.2 | 1 | AGATTGATGATGGCACCCCCATAAAACCATTCCTTAGGAAATCTGAACAAAATGAGTGAA |
| ex3_6233437_x1 | ENST00000365029.1 | 14 | 0.008 | 28.2 | 1 | TGGATCGATGGTGACTGTTGATGGCATATGACTCACATATGATGAGTACGTATCTGGAAC |
| ex3_6237696_x1 | CM000673.2/109263564-109263494 | 14 | 0.008 | 28.2 | 1 | CATGTATAATGATATATTGGTAACACTGCAGACTTGGGGAAGCCAGCCAACCTTGGAGATCTGAGTGTGAG |
| ex3_6238857_x1 | CM000665.2/121591294-121591394 | 14 | 0.009 | 28.2 | 1 | ATCCTTTTGTAGTTCATGAATGTGATGATTGGGCATTCACGTGGATGTGTGAGTGCTACCCTCGAAGCTTGTTTCAACATTGGCACATTATGCATCTGACT |
| ex3_6240625_x1 | CM000666.2/76402076-76402146 | 15 | 0.003 | 30.2 | 1 | CATCTGTGATTATCCTATTCTGAACCTGAATTTCTACTAGAAAAAACTTATATGAATCTGGCTTCTGAGAT |
| ex3_6242081_x1 | CM000670.2/102388635-102388526 | 14 | 0.009 | 28.2 | 1 | ATCGTTTTGTAGTCTATTATAAGCGTGATGATTGGGTGTTCATATGCATATGTGAGATGTGCCACCCTCAAATCTTGTTATGACGTCATCAGCACGTTACTCTTCTGATA |
| ex3_6248640_x1 | ENST00000365318.1 | 17 | 0.0003 | 34.2 | 1 | GGGTCAGTGATGAGAACCTTATATTGTCCTGAAGAAAGGTGATGACTTAAAAATCATGCT |
| ex3_62 | ENST0 | 20 | 0.000 | 32.2 | 1 | TAATGCTATACTTTCATGGGTCATTTCTATAGTTTGTTATTAGAGAAGTTTCTCTGAAT |

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|---|---|---|---|---|---|---|
| 49115_x1 | 0000364459.2 |  | 6 |  |  | G |
| ex3_6250012_x1 | CM000682.2/56475643-56475745 | 16 | 0.001 | 32.2 | 1 | ATTCTTTAGTAGTTCATAATGCTATGATTGGGTTTCCATGTGCACATGTAAGATGTGCCTCTCTCAAGCCTTGTTGTGACATCAGCACATTACCCATCTGATG |
| ex3_6250099_x1 | ENST00000363750.1 | 14 | 0.009 | 28.2 | 1 | TACCTCCCAGGATGGCATCTGGAAGTGGATAGTATTCTGCCAGCTTTGGAAACTGGATGA |
| ex3_6251737_x1 | ENST00000408373.1 | 15 | 0.004 | 30.2 | 1 | ATTTCTATGGAAAAGAGGTGAAGTGGACAGAAGGGATGTCTGAAATTCTATCCTGAGGCT |
| ex3_6251744_x1 | CM000669.2/138121088-138121191 | 14 | 0.008 | 28.2 | 1 | ATCTTTTTGTAGTTCATGAGCGTGATGACTGAGTGTTCATGTGCATGTGTGAGGCGTGCCACCCTTAAACCTTGTTATAACATCAGCACATTACCCACATGACA |
| ex3_6253614_x1 | ENST00000411095.1 | 16 | 0.0007 | 32.2 | 1 | CCTCATTTTCTTGGCAGGAACTTGTAGTCCCACTCCCTGTTATGTACAGAGGCAAAGGGA |
| ex3_6258773_x1 | ENST00000363345.3 | 38 | 1E-16 | 75.8 | 1 | TGGACCAGTGATGAATATCATGGGGTTTCTGAAACAACATTTTTGATTAAACCCATCTGC |
| ex3_6259216_x1 | CM000669.2/5485395-5485501 | 15 | 0.006 | 30.2 | 1 | ATCCTCCTATAGTTCCTCAATGTGATGACTGGGTGTTCACACTCATTGGCGAGATGTGCCTCTCTCAAACCTTGTTCAGATGCTGCAGACACATTACCCATCAGATG |
| ex3_6262472_x1 | CM000673.2/126281657-126281754 | 17 | 0.0003 | 34.2 | 1 | ATCCCTTTGTAGCTCATAAGCAAGATGACTGGGTGTTCACGCACATGTGTGAGGTGTGCCTCCCTTAAACCTTGTTAAGGGTTGTTACCCGTGTGATG |
| ex3_6263111_ | ENST0000039 | 14 | 0.009 | 28.2 | 1 | TGTTCCCGATCTGGTAGAGTAGCATCTGGTTGGTGGTGACCATCTAATACCAGCCAGGGA |

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|---|---|---|---|---|---|---|
| x1 | 1081.1 | | | | | |
| ex3_6263484_x1 | ENST00000384569.1 | 14 | 0.009 | 28.2 | 1 | CTACAATGATGGCAATATGTTTCATCGACAGCAGTTCACCCATTGAGTGTTGATACCGTG |
| ex3_6267293_x1 | CM000671.2/81888918-81888985 | 19 | 0.003 | 30.2 | 1 | CGGGTGGTGATGACCCCAACATTCCATCTGAATGCCTGTGCTGAAACCCAGAGGCTGTTTCTGAACCA |
| ex3_6269280_x1 | CM000685.2/54927305-54927433 | 15 | 0.006 | 30.2 | 1 | GGGGTGCGCTCAGAGCAGAGGGCCTTAAGAATGGCTCCTCTGTTTACAACACACCCAACAGGAATCTGGGCTTACTCCTCACAGGTGGCATGATACTTTGGCCTTCCTGTGACATCATGCCCTATACAT |
| ex3_6269527_x1 | ENST00000458951.1 | 16 | 0.002 | 32.2 | 1 | GTCCTTTTGTAGTTCATAAGCGAGATGATTGGGTGTTCAGGCACATGTGTGAGATGTGCC |
| ex3_6270121_x1 | ENST00000516884.1 | 15 | 0.006 | 30.2 | 1 | TGTAACTTGTGGACAAGGCTTATTGACAGGTGCAAAAAATAAATAATCTTTTGCCACTCA |
| ex3_6272606_x1 | CM000672.2/37604412-37604341 | 15 | 0.005 | 30.2 | 1 | AAGATTATACTTTCAGGGATCATTTCTATAGTTTGTTACTAGTATTTCTGTATGCGTTTGGGGTGCAAGTGT |
| ex3_6276566_x1 | CM000664.2/9532345-9532242 | 14 | 0.009 | 28.2 | 1 | ATACTTTTATAGTTCATAAGTGTGGTGATTGGCTGTTCACACACACATATGAGATGTACCACCCTAGAACCTTGTTACAATGTTAGCACATTACCAGTCTGACA |
| ex3_6277389_x1 | ENST00000516049.1 | 17 | 0.0002 | 34.2 | 1 | TTATTTATCTGACAGACCTGCAGCAGTTACTGGATGCTGTTAAAGTTTCCACTACAGATG |
| ex3_6279059_x1 | CM000685.2/2413318 | 14 | 0.008 | 28.2 | 1 | CTTGCACCTAAACCCAAAGAATCACTGTTTCTTGAAGTGGTGGTTTAAACAAGGTGCAAACAGCAAGCGAATCTCATTACTTTTGGTGGCTGTGGCCATGCTCCTTAAAGTGAACTTAGAGGCTCTACATCC |

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|---|---|---|---|---|---|---|
| | 6-24133317 | | | | | |
| ex3_6282896_x1 | ENST00000391159.1 | 15 | 0.003 | 30.2 | 1 | ATTTTACATAGCGCTGCAGATGTGGCTGCTGTGTCACATTTGTGTTATTAGGTGGCAGAG |
| ex3_6282950_x1 | AL132709.5/132469-132398 | 31 | 3E-10 | 54 | 1 | UGGAUCGAUGAUGACUGCUGGUGGCGUAUGAGUCAUAUGCGAUGAAUACGUGUCUAGAACUCUGAGGUCCAU |
| ex3_6283062_x1 | CM000672.2/110576360-110576461 | 14 | 0.008 | 28.2 | 1 | GTCCTTTTGTAATGCATAAGCACGATGATTGGGTTTTCGTGTTCATGTGAGTCATGCCTCCCTCAAACCTTGTTAGGACATTGGCACATTACCAATGTGATG |
| ex3_6286778_x1 | ENST00000365391.1 | 23 | 4E-08 | 46.1 | 1 | GGGTCAATGATGAGAACCTTATATTGTCCTGAAGAGCGGTGATGACTTAAAAATCATGCT |
| ex3_6291112_x1 | CM000671.2/83452273-83452375 | 15 | 0.002 | 30.2 | 1 | ATCTCTTTGTAGTTCACAAGCATGGTGATTGGGTGCTCAAGCCCATGTGTGAGGTGTGCCTCCCTCAAACCTTGTTACAACGTAGGCACAGCATCACCTGACG |
| ex3_6291609_x1 | ENST00000384300.1 | 15 | 0.003 | 30.2 | 1 | ATCCAAGGGGATTCCCTCTCCAAGGGAACATGCAGTGCCCCTCTCAGGAAAGTAACAACC |
| ex3_6296585_x1 | CM000665.2/45255620-45255409 | 15 | 0.004 | 30.2 | 1 | AATTGTATACTTTCAGGGATCATTCCATAGGTTGTTACTAGAGAAGTTTTTTTAGATGTGTAGAACACTGGAAACCACGAGGAGGAGGCGCAGCATTCTCTCTTGACCATGAAGCCGGCTCTTGGTGTTGTTTCATTGCAACTGTCATTTGCCATTGATGATCGTTCTCTTCCTCTGGGAGAGTAAGAGGGAGAGGACACAGTTTGAGTGGT |
| ex3_6296758_x1 | CM000665.2/32694240-32694164 | 14 | 0.009 | 28.2 | 1 | AAGACTACACTTTCAGGGATCATTTCTACAGTTTGTTACTGGAGAAGTTTCTCTGAAAGTGTAGAGTACCAAACACT |

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| ex3_6296902_x1 | CM000680.2/3573043-3572940 | 15 | 0.004 | 30.2 | 1 | ATCTTTTTGTGATTCATCAGCATGATGATTGGGTCTTCACACAAAAGTTTAAGATGTGCCTCCCTCACATCTTATTATCGTGTCAGCATATTTCCTGTCTGAAG |
| ex3_6298692_x1 | CM000663.2/101228765-101228664 | 16 | 0.0007 | 32.2 | 1 | ATCCTTTTGTAGTTCATAAGCGTGATCACTGGGTGTTTACGCACGTGTGAGATATGCCATCCTTGAACCTTGTTATGATGTCAGCACATTACCCATCTGACA |
| ex3_6299991_x1 | ENST00000408198.2 | 20 | 0.0005 | 32.2 | 1 | AAGATGACACTTTGAGGCATCGTGTCTATGGTTCATTACTACAGAAGCTTCTCTGGATGT |
| ex3_6302708_x1 | CM000676.2/102358902-102358799 | 15 | 0.004 | 30.2 | 1 | ATTCTTTTGTAGTTCATAGGCATAATGATTGGGTTTTCATGCTCATGTATGACCTGTGCCTTCCTCAAACTTTGCTATGATGTTGGCACATTACCTAGCTGATA |
| ex3_6303324_x1 | ENST00000516123.1 | 14 | 0.008 | 28.2 | 1 | GGATGGATGACGACTTAAAAATGAATCTCGTTGGAATCTGAGCAAAACGAGTGAGCAAAC |
| ex3_6306129_x1 | CM000663.2/156192176-156192063 | 14 | 0.009 | 28.2 | 1 | TTGCCGCCCACACAACCAAATTAAAAAATAACACAGAAGGGTAAGGTAAGTCTCCATTAAACCCAGGAAAGAGACTGGAAAACTCCTCTTTGGAGCCTGTCTATAGTCACAGGT |
| ex3_6306246_x1 | ENST00000516303.1 | 23 | 1E-05 | 38.2 | 1 | GTGTTTAGAAGACCACATCTTCATCCTGAAAGCACAGATGTGTGGAAACCAATGACCGAG |
| ex3_6308527_x1 | CM000677.2/20352181-20352086 | 16 | 0.001 | 32.2 | 1 | ATCCTTCTGTGGCTGATATGTGTGATGAGGGGGTTTTCACACTCTTGCGTGGGACGTGCAACCTCTTTAGAACAGTGGCACATTACCTGTCCTACA |
| ex3_63 | CM000 | 15 | 0.003 | 30.2 | 1 | CTGCAACCAATTAAGCCGACCTAGTTCCTTTCCTCTTTGGGGCCTGGTGTTCAATAG |

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| 19045_x1 | 673.2/83041598-83041464 |  |  |  |  | CTGCAAACAGCAGCTTCCTTGGTAGTGTATGCAGCCTGTTTCTTGTATGGGTTGCTCTAAAGGACCTTGGAGACAGCC |
| ex3_6328416_x1 | CM000663.2/224336791-224336889 | 16 | 0.0007 | 32.2 | 1 | ATCCTTTTGTAGTTCCTAAGTGTGAAGAATGGGTGTTCATGCAGAAGGATAAGATGTGCTACCCTCAAACCTTGTTCCGTGCATATTACACGTCTGACA |
| ex3_6329390_x1 | ENST00000364764.1 | 15 | 0.004 | 30.2 | 1 | GGGTCAATGATGAGATGTTACCTTGAAGAGAAATGATGACGTAAAAATTAAGTTCAGTTG |
| ex3_6330461_x1 | ENST00000362917.1 | 36 | 1E-15 | 71.9 | 1 | GCATGGGTTTGGATTTATGATGGGCTGGATTCCCTAGGCCTCTCATAGTACCCCATGCCA |
| ex3_6330836_x1 | CM000682.2/41712600-41712479 | 14 | 0.009 | 28.2 | 1 | GTGTCCTTTTAAGGTTGACACAGTGCTTTAAGAGCCTAACACAGAAAGGTAAAGTAAGTTTCCGTAAAACCCAGAAATGATATTGCAAAATTCCTCTTTGAATCATGTCTGGAGTCACAGCT |
| ex3_6331636_x1 | CM000663.2/112195494-112195606 | 15 | 0.003 | 30.2 | 1 | ATCAGTTTAACATTTAAAAAAATGTATCAAGGCGTGGTGATTAGGTTTTCACACTCATGTGTGAGATGTGCCTCCCTTGAACTTTGTTACATTGGCACTTTACCCATTTGACA |
| ex3_6332022_x1 | ENST00000459368.1 | 21 | 1E-06 | 42.1 | 1 | ATCCTCTTGTAGTTCATGAGCGTGATGATTGAGTATTCATGTGCATGTGTGAGATGTGCC |
| ex3_6332624_x1 | CM000676.2/63659119-63659192 | 24 | 0.001 | 32.2 | 1 | TAGACTGTACTTTCAGGGATCATTTCTGTAATTCGTTACTAGAGAAATTTCTCTGAATGTGTAGAGCAGTTAAT |
| ex3_6334634_ | AC010653.10/ | 15 | 0.002 | 30.2 | 1 | CUGCAGACAGUUAAGCCAACUGAGUUCCUUUCCUCAGGGAGGCCCAGUGUACAAUGGCUGCCCACAGCAGCUUCCUUGGUAGCGUACUCAGCCUGUUUCUUGUAUGGGU |

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| x1 | 163838-163972 |  |  |  |  | UGCUCUAAGGGACCUUAGAGACAGGC |
| ex3_6334823_x1 | ENST00000384713.1 | 15 | 0.004 | 30.2 | 1 | CTACAATCATGGCAATATTTTTTGTCAACAGCGGTTCACCTAGTGAATGTTGATACTTTG |
| ex3_6337957_x1 | CM000666.2/48936381-48936521 | 15 | 0.005 | 30.2 | 1 | TTACAGTCAATTAAGCCAATCATGTTCCTTTCCTTGTAAGGGCCAGGTGTGCCATGGCTGCGAACAGCAGCCTTCTCGGTAGTATGTGCACCGTGTTGCTTGTATGTTGTAAGCATTGCCCTAAGGACCTTGGAGACAGCC |
| ex3_6338144_x1 | CM000663.2/117688742-117688621 | 14 | 0.009 | 28.2 | 1 | TGCACTTGTGTTTTTGTTTAACTGTGAACAAAGACTTATAGAGAAGTGCAAAAAATAAATCCTCTTTTGCAACCCAGAACTCATTGTTTAGTAAGGGTTTTGATACATATAAAAGAGATATT |
| ex3_6342356_x1 | ENST00000364863.1 | 15 | 0.003 | 30.2 | 1 | GATGCCTTCCGGAACATGCCAGCACCGCAGATGCTGGCAGTCTGCTGTGCCCGTGATATT |
| ex3_6342760_x1 | ENST00000363202.1 | 14 | 0.008 | 28.2 | 1 | CCTGGGTGATGATAAGCAAATGATGCCTGAATGTGAAGGTCATACTCGGCTTTAGCTGAT |
| ex3_6344942_x1 | ENST00000458863.1 | 14 | 0.009 | 28.2 | 1 | ATCCTGTTGTAGTTCATAAGCATGATGATTTGGTGTTCACGTGCATGTGTGGGATGTGCC |
| ex3_6345138_x1 | CM000669.2/138188129-138187998 | 15 | 0.007 | 30.2 | 1 | AGCCTCCTGGTGCTCAGCACAGGATGTGTTCTTACCCTAACCAAATAGAAAGAGTAGGCTGAATTAACCTATGCCATATACACCTCAACCCAGGCCCTGCAACTCCTCTGTATTGTCAATGGGTGGACATGG |
| ex3_6345416_x1 | CM000671.2/133093052-133093151 | 15 | 0.003 | 30.2 | 1 | ATCCTTTTGTAGTTGATGAACAATGATGATTGGGTGTTCATGCACATGCGTGAGATGTGTCACCCTCAAACCCTTACGTCGGCACGTTACCCATCTGACG |
| ex3_63 | KV766 | 15 | 0.002 | 30.2 | 1 | ATCCTTTTATAGTTCATAAGCATGATGATTGGGTTTTTGCACACGTGTAATATGTGCCT |

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|---|---|---|---|---|---|---|
| 49352_x1 | 194.1/18640-18741 | | | | | CCCTCAAACCATGTTATGACCTCAGCATATTACCTGTCTGATA |
| ex3_6349389_x1 | CM000675.2/102721802-102721905 | 16 | 0.002 | 32.2 | 1 | ATCCTTTTGTGGTTCATACATGTGGTGATTGGGTTTTCACACTCACATGTGAGATGTGCCTCCCTCCAACCTTGTTATGATGTCAGCACATTACCCATCTGACA |
| ex3_6351480_x1 | ENST00000516329.1 | 14 | 0.009 | 28.2 | 1 | AGCACTTGTATGTTTTAACATGTGGACATTTATAGACAGGTTCAAAAAGTCCTCTTGCAA |
| ex3_6352698_x1 | CM000667.2/66231232-66231129 | 14 | 0.009 | 28.2 | 1 | ATCCTTTTGTGGTTGGTAAGCATGATAACTGGATTTTCACATTCATGTGTGAAATGTGCCTCCTTCAAGGCTTGTTACCATGTAGGCACATTACCCAACTGATG |
| ex3_6354001_x1 | ENST00000363622.2 | 20 | 2E-06 | 40.1 | 1 | AAGGCTATACTTTCAGGAATCATTTCTATAGTTTGTTACAAGAGAAGTTTCTCTGAATGT |
| ex3_6357901_x1 | CM000664.2/129427422-129427525 | 15 | 0.004 | 30.2 | 1 | ATGTTTTTGTGGTTTATGAATGTGATGATTGGGTTTTCACACTCAAGTGTGAGACGTGCCTCTCTCAGATCTTGTTCCAATGTCAGTACATTACCGATCTGACA |
| ex3_6358809_x1 | CM000684.2/31953404-31953506 | 14 | 0.008 | 28.2 | 1 | ATCTTTTTGTAGTTCATAAGTGTGATGATTGGGTTTTGACATGCAGGTGTGAGATGTGCCACCCTCAAACCTTGTTACAACATAGACATGTGACCCTCTGATG |
| ex3_6361713_x1 | CM000671.2/75676907-75677016 | 14 | 0.008 | 28.2 | 1 | ATCCTTTTGGGGTTCATAAGCGTGATGACTGGGTTTTTGACACTCATGTGTGAGATGCACTTCTCTCAAACCTTTTTGCAATGTTGGCATACTATCATACCTGCTTGATG |

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| Qseqid | Sseqid | NT | Evalue | Bitscore | Number | Sequence |
|---|---|---|---|---|---|---|
| co3_2363374_x5590 | CM000664.2/231456523-231456444 | 18 | ###### | 36.2 | 5590 | TGGATATGATGACTGATTACCTGAGAAATAATTGATGAAATCTCAAGAAAATTCCTCTAGATAGTCAAGTTCTGATCCAG |
| co3_2821260_x4135 | ENST00000364281.1 | 14 | ###### | 28.2 | 4135 | CTAAAACAATGTCAATAGTTTTCATCAACAGCAGTTGAACCTAGTAAGTGTCGATACTTT |
| co3_2985674_x3730 | ENST00000384320.2 | 14 | ###### | 28.2 | 3730 | CTGGTTGCATGATGAATAAAATCAAATCACCATCTTTCGGCTGAGTTCGTGATGGATTTG |
| co3_2993122_x3717 | ENST00000384048.1 | 16 | ###### | 32.2 | 3717 | ATTCGTGATGACTGATCATTTCTTCACTTTGACCAGATGTCTACTGAAGAAAGCCTGCGT |
| co3_3355757_x2884 | CM000673.2/62853395-62853325 | 20 | ###### | 40.1 | 2884 | CTCACCAGTGATGAGTTGAATACCGCCCCAGTCTGATCAATGTGTGACTGAAAGGTATTTTCTGAGCTGTG |
| co3_4065880_x1811 | AY349606.1/1-85 | 15 | ###### | 30.2 | 1811 | CCCCUAUCUCUCAUGAUGAACACAUAUGCCUCUGAGCUGCUGUGAUUUCUGGCUUCAAAGUAAACGCUCUGAAGAAGAGAUGGGG |
| co3_4366794_x1475 | ENST00000627253.1 | 21 | ###### | 42.1 | 1475 | AAGACTATACTTTCAGGGATCATTTCTATAGTTTGTTACTAGAGAAGTTTCTCTGAACGT |
| co3_4557968_x1281 | AB061820.1/3401-3472 | 28 | ###### | 56 | 1281 | UCAAAAUGAUGAGAUUCCACUUAAUUGGUCCGUGUUUCUGAAACACAUGAUAUUUGUGGAAAUUCUGACUUG |

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|---|---|---|---|---|---|---|
| co3_4770375_x1115 | ENST00000448188.1 | 29 | ###### | 58 | 1115 | TGGAGGTGATGAACTGTCTGAGCCTGACCTTGTAGAATGGAGGCAAAAAAACTGATTTAA |
| co3_4812047_x1078 | AJ609483.1/2-129 | 28 | ###### | 56 | 1078 | CUGGAGGACUAAGAAGGCUGAGUCUGAUGAAGUAAGACUUUGCUGAUACAUUCCUCCUAGAAAAAAGGGUUGGAGAGAGCAGCCUUCACUGAAGAGUAUCACAGGGCUGACUGUACUACCCAACACUC |
| co3_4817430_x1075 | CM000685.2/135212441-135212513 | 18 | ###### | 36.2 | 1075 | AAGACTATACTTGCAGGGATCATTTCTGTAGTTGGTTACTAGAGAAGTTTCTTGTCTGTAGTTGGTTATTAGA |
| co3_5020108_x938 | CM000673.2/62853732-62853663 | 24 | ###### | 48.1 | 938 | GTTTGTGATGACTTACATGGAATCTCGTTCGGCTGATGACTTGCTGTTGAGACTCTGAAATCTGATTTTC |
| co3_5118822_x875 | AC092174.5/156814-156683 | 23 | ###### | 46.1 | 875 | CUUCCCAUUUAUUUGCUGCUUAUAGUCUCACUGUGAUAUGAGCAAUUAUACACAUGGGAUAAAAUAAUAUUGAGCCACUGUAAAUUGAGAUGAAGUAACCGUUUUCAUAUCUUCUGCAUGGACUAGACAUUG |
| co3_5163667_x849 | AJ238853.1/1-62 | 25 | ###### | 50.1 | 849 | CACAGAUGAUGAACUUAUUGACGGGCGGACAGAAACUGUGUGCUGAUUGUCACGUUCUGAUU |
| co3_5188031_x833 | AC025362.12/104594-104663 | 40 | ###### | 79.8 | 833 | GCUGUGAUGACAUUCCAAUUAAAGCACGUGUUAGACUGCUGACGCGGGUGAUGCGAACUGGAGUCUGAGC |

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|---|---|---|---|---|---|---|
| co3_5376913_x742 | ENST00000364155.1 | 45 | ###### | 65.9 | 742 | GTTTCTGATGAAGCCTATGTTGGTAGGGACAACTAAGGTTGTTGATGAATGCTAACAGCT |
| co3_5428064_x720 | CM000679.2/4281844-4281769 | 25 | ###### | 34.2 | 720 | AAGACTATCCTTTCAGGGATCATTTCTATAGTTTGTTACTATAGAAGTTTTCTGAAGGTGTAGAGCACCAAAGGAT |
| co3_5433817_x717 | ENST00000362607.1 | 26 | ###### | 52 | 717 | CTGCATCCACTGATAGACCTTGAACAATTTACTGTTGTTCTTTTGGTTTGCACTAGGATG |
| co3_5450915_x708 | AJ224028.1/3-79 | 28 | 6E-11 | 56 | 708 | CAGAAUACAUGAUGAUCUCAAUCCAACUUGAACUCUCUCACUGAUUACUUGAUGACAAUAAAAUAUCUGAUAUUCUG |
| co3_5465725_x701 | CM000682.2/17962946-17962710 | 29 | 2E-11 | 58 | 701 | GTGAAATGATGATTCAGTTTATCCATTCGCTGAGTGCGCTGCACTGACCTTCTTCCAAGCCTCAGTTCCTGTTCTAGGAACTTGAGGCTATGTAGCCTGAAAATGCCCTGCAGTCTGCAGTGTTCTACTGTGAACTGCTTGTGTGTTGGCAGGCTACCGGTAAGAATGGTTGGTGTCAGCAGGGACGGGGCCCTCTGAGACCCATCTCACAAAGATGAGTGGTGAAAATCTGATCAC |
| co3_5565224_x663 | AC104446.2/145501-145577 | 35 | ###### | 69.9 | 663 | AAUGUGAAGCAAAUGAUGAUAAACUGGAUCUGACUGACUGUGCUGAGUCUGUUCAAUCCAACCCUGAGCUUCAUGUU |

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|---|---|---|---|---|---|---|
| co3_5584997_x654 | CM000672.2/89061131-89061031 | 14 | ###### | 28.2 | 654 | ATTCTTTTGTATCTCACAAGTGTGACTGGGTTTTTAGGCTCATGTGTGAGATGAGCTTCCCTCAAAAATTGTTGTGACTGTGGCATGTTACCTGTGTGATG |
| co3_5657610_x621 | AP001273.4/3902-3830 | 35 | ###### | 69.9 | 621 | CGAUGUUAUGAUGAUGGGCGAAAUGUUCAACUGCUCUGAAGGGGCUGAAUGAAAAUGGCCUUUCUGAACAUCC |
| co3_5721359_x592 | CM000663.2/75787072-75787150 | 14 | ###### | 28.2 | 592 | GGTCAATGATGAGTTGGCATGTATTCTGAATCTAAAGTTGATTATTACTACTTTAGCTCTAGAATTACTCTGAGACCTG |
| co3_5749504_x581 | AJ543325.1/2-85 | 28 | ###### | 56 | 581 | CUGAGUCCAUGAUGAUUUCAAGUUAUCCCUGUCUGAAGGCAAAGAAAGGCCUUUCUGUGUGGAAUUUGAAUAUCUGAAACUCAG |
| co3_5777102_x571 | AC018761.6/48391-48315 | 26 | ###### | 52 | 571 | GGCCUCAAGUGAUGGAGAGCAAUACCCGGGGAUGACUGUGACCACAUUGGGAUGUAUUCGUACUGUCUGAUGGGGCC |
| co3_5833308_x552 | AJ609430.1/1-139 | 30 | 4E-12 | 60 | 552 | GACCUCCUGGGAUCGCAUCUGGAGAGUGCCUAGUAUUCUGCCAGCUUCGGAAAGGGAGGGAAAGCAAGCCUGGCAGAGGCACCCAUUCCAUUCCCAGCUUGCUCCGUAGCUGGCGAUUGGAAGACACUCUGCGACAGUG |
| co3_5922158_x519 | CM000668.2/121443617-1214436 | 29 | ###### | 50.1 | 519 | AAGACTATACTTTCAGGGATCATTTCTATAGTTTGTTACTAGAATGTAAATAAACTTAGTGATGAATTACTATAAGC |

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|---|---|---|---|---|---|---|
| co3_6017443_x490 | ENST00000364921.1 | 19 | ###### | 30.2 | 490 | ATGCAGGTACTGTTATAACTGAAGTGTTTTACGGTTTTTTCTTCCTGCTTAAAGCACTTG |
| co3_6051763_x477 | ENST00000629536.1 | 26 | ###### | 52 | 477 | AAGCACTGCCTTTGAACCTGATGTGTCTTGTTTGTAGCTTCACGGGCCAAGCAACAGTGC |
| co3_6178992_x433 | AK303222.1/647-788 | 21 | ###### | 42.1 | 433 | GCUCUGUGAUGGAGCCCAUGCGUGUCAUCUGAGCCUCUGGCUUCCCUGCCAGUGCAGCCCUGGCAGUGUCCUACUUCCCAGGGCUGUUGUCUGCCUGGCGGGAAGGUCCUGGGCAAAGGAUCAGUCUUUGUACUCUGAGAGC |
| co3_6272551_x407 | CM000665.2/185442219-185442319 | 15 | ###### | 30.2 | 407 | ATTCTTTTGTGATTCATAAGCATGACTGGGTGTTCCCACTCACGGGTGAGATGTGCCTCCCTCCAACCTTGTTACGACGTCACCACATTACCTGTCTGACA |
| co3_6376397_x375 | AB061820.1/2178-2249 | 21 | ###### | 42.1 | 375 | CAGUAGUGAUGAAAUUCCACUUCAUUGGUCCGUGUUUCUGAACCACAUGAUUUUCUCGGAUGUUCUGAUGCU |

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|---|---|---|---|---|---|---|
| co3_6392775_x369 | CM000663.2/28508559-28508762 | 24 | ###### | 48.1 | 369 | CCAACGTGGATACCCTGGGAGGTCACTCTCCCCAGGCTCTGTCCAAGTGGCATAGGGGAGCTTAGGGCTCTGCCCCATGATGTACAGTCCCTTTCCACAACGTTGAAGATGAAGCTGGGCCTCGTGTCTGCGCCTGCATATTCCTACAGCTTCCCAGAGTCCTGTGGACAATGACTGGGGAGACAAACCATGCAGGAAACATAT |
| co3_6412609_x365 | AK096147.1/739-811 | 20 | ###### | 40.1 | 365 | GUUUGAAUGAUGACUUUAAUUGUCGGAUACCCCUUCACUCCUUUUAUGAGUGAAACAUAAGAGUCUGACAAAC |
| co3_6494947_x344 | CM000674.2/56643750-56643680 | 24 | ###### | 48.1 | 344 | CCTCACTGATGAGTACGTTCTGACTTTCGTTCTTCTGAGTTTGCTGAAGCCAGATGCAATTTCTGAGAAGG |
| co3_6506924_x340 | CM000665.2/98872180-98872083 | 19 | ###### | 30.2 | 340 | AAGACTATACTTTCAGAGATCACTTCTGTAGTTTATTATTAGAAAGTTTCTCTGAATGTGTAGAACACTGGAAAAAATGATCTAAGACTACTGTGAAT |
| co3_6521144_x336 | ENST00000391308.2 | 18 | ###### | 28.2 | 336 | AAGACTATACTTTCAGGGATTATTTCAGATAAACTTCTAGAGTTTCTCTGAACCTGTAGA |
| co3_6532530_x333 | ENST00000363064.1 | 49 | ###### | 65.9 | 333 | GAAAATACATGATGATCTCACTCCAACTGGAACTCTCTCACTGATTACTTGATAACAATA |

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|---|---|---|---|---|---|---|
| co3_6553032_x328 | CM000685.2/119787484-119787353 | 23 | ###### | 46.1 | 328 | AAAGCAGGTTGCAATTACAGTGCTTCATTTTGTGGAAGTACTGCCATTATCCTGCTGAAAGAAAAGCCGTGTTAATCATTTTTGATTTTGCCTTTATGAGGGTAAAATCATGACAGATTGACATGGACAATT |
| co3_6617765_x313 | AY349593.1/1-137 | 30 | ###### | 60 | 313 | CAGGCUGUGAUGAUUGGCGCAGGGGUACGGACCUCAGCUGAGUCAUGGGAGCUGAAUGUAUGUGUUUCUCCUUUGUCCUGCAUGUGGCAGGCUGAUGGGGAGCACUUACAUGAGACUGUUGCCUCAAUCUGAGCCUG |
| co3_6631786_x310 | AJ010666.1/3-73 | 20 | ###### | 40.1 | 310 | AGCACAAAUGAUGAAUAACAAAGGGACUUAAUACUGAAACCAGAUGUUACAUUGUAGUGUGCUGAUGUGCU |
| co3_6665387_x301 | CM000663.2/44776490-44776593 | 26 | ###### | 52 | 301 | AAGTAGGGTGATGAAAAAGAATCCTTAGGCGTGGTTGTGGCCGTCTTGGTCACCTGTGTGCCACTTGCCAATGCAAGGACTTGTCATAGTTACACTGACTGTTG |
| co3_6678235_x297 | ENST00000363753.1 | 18 | ###### | 36.2 | 297 | CAGTAGTGATGAAATTCCACTTCATTGGTCCGTGTTTCTGAACCACATGATTTTCTCGGA |
| co3_6771615_x276 | AC104066.3/51055-51176 | 25 | ###### | 50.1 | 276 | GUGCCCUUUUAAGGUUGACCCAGUGCUUUAAGAGGCUAACACAGAAGGGUAAAGUAAGUCUCCAUAAAACCCAGAGAAGAGACUGGAAAGCUCCUCUUUGGAUCCUGUCUGGAGUCACAACU |

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| co3_6820038_x265 | ENST00000408493.2 | 23 | ###### | 46.1 | 265 | ACCTTCTTGTATAAGCACTGTGCTAAAATTGCAGACACTAGGACCATGTCTTGGTTTTTG |
| co3_6858134_x257 | AJ609450.1/1-137 | 29 | ###### | 58 | 257 | GGGCAUACUCGUAGACCUUGCCUGACUGUGCUCAUGUCCAGGCAGGGGGGACAGUGUAUGCAAGAAUAAUUUGGAGUUCCUGCCAGCUCUAACCAGCUUCAUCAGUGGCUGGAUAAAUUGCAGGACUCUAAACAUUU |
| co3_6871168_x254 | AB061820.1/4174-4242 | 35 | ###### | 69.9 | 254 | UUGUUAUGAUGAGAUUCCACUUAAGGUCCGUGUUUCUGAAACAAAUGAUUUUGUGGAAGUUCUGAUUUA |
| co3_6876996_x253 | AY349604.1/4-89 | 41 | ###### | 81.8 | 253 | UCUGGCAAUGAUGACCCACUUGCCCUCACUGAGAACAAAGUUCGGUAAUGAGAAUCUUUGUUAAUGGACUCAAGUUCUGAGCCAGC |
| co3_6878261_x253 | AL049840.8/49457-49533 | 15 | ###### | 30.2 | 253 | AUUGUUACAUUGAUAAAAUCAAAUCACCAUCUUUUAGCUAAGCUUGUGCUGGAUUUGCUUUUUUUCUGAUAAAGAUG |

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|---|---|---|---|---|---|---|
| co3_6920620_x243 | BK005568.1/1-420 | 28 | ###### | 56 | 243 | GUUUUAGGGAGGGAGAGCGGCCUGGGUCCUGGGUGUUGUGUGCGGAGCUGUGGCGUCGCGUGUGAGGCGCGUGCAGGGUGAGUGUGAGUGGACGCGUGAGUGUGUGAGUGUGCGCGCUUGGAGCGUGUUAGGCGAGUGCGUGCGCCCACCCCUGCGCCCCUCCUCCCGCUUACACUUUGAUCUUAUUUGAUCGGAUCGUGACCCCAGCCCCGCCGGGCCGACCCGAAAUGAAAAGCUCUCCUCCUGCGAAGCCCCCUCGGGGCGCUGUGCAGCGAGGCCCCUUAGGCGGCGGCCACGCUGUGGUCCCCGAGGUCCCGGAGCUGGCCCUGCGGGGCCCGGCGCUCAGAAGUGAUGAAUUGAUCAGAUAGACGAGGCCGGGCUUGUCCCCGGCCACUGAUUAUCGAGGCGAUUCUGAUCUGG |
| co3_6956354_x236 | CM000668.2/85677368-85677294 | 25 | ###### | 50.1 | 236 | TATCTGTGATGATCTTATCCCGAACCTGAACTTCTGTTGAAAAAAAAAAACTTTTACGGATCTGGCTTCTGAGAT |
| co3_6984369_x231 | ENST00000363981.1 | 21 | ###### | 42.1 | 231 | ACTCCATGATGAACACAAAATGACAAGCATATGGCTGAACTTTCAAGTGATGTCATCTTA |
| co3_7024787_x223 | ENST00000391079.1 | 14 | ###### | 28.2 | 223 | AAATGATGAAATCACCCAAAATAGCTGGAATTACCGGCAGATTGTGTAGTGGTGAACCTA |

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| co3_7027683_x222 | ENST00000364938.1 | 43 | ###### | 85.7 | 222 | CCAACGTGGATACACCCGGGAGGTCACTCTCCCCGGGCTCTGTCCAAGTGGCGTAGGGGA |
| co3_7043145_x219 | AADC01102901.1/15489-15356 | 19 | ###### | 38.2 | 219 | CUGUCAGGUGGGAUAACCCUUCCCUGUUCCUCCGUUUGGAGGGCAGAUAGAACAUGAUGACUGGAGAUGCAUGAAAUGUGACUAAUGUCUCUGUGUAAUCAGGACUUGCAACACCCUGAUUGCUCCUAUCUGAU |
| co3_7087608_x210 | AC093484.2/160294-160365 | 23 | ###### | 46.1 | 210 | UGUCCUGAUGAUACUUGUAAUAGGAAGUGCCGUCAGAAGCGAUAACUGACGACGUCUAAUGUCUAUCUGACC |
| co3_7105529_x207 | AF141346.1/1052-1111 | 38 | 1E-16 | 75.8 | 207 | AGCCUGUGAUGCUUUAAGAGUAGUGGACAGAAGGGAUUUCUGAAAUUCUAUUCUGAGGCU |
| co3_7159131_x197 | ENST00000459163.1 | 51 | 1E-19 | 85.7 | 197 | AAGTGAAATGATGGCAATCATCTTTCGGGACTGACCTGAAATGAAGAGAATACTCATTGC |
| co3_7177660_x193 | L44140.1/70716-70850 | 43 | ###### | 85.7 | 193 | CCGCAGCCAAUUAAGCCGACUGAGUUCCUUUCCUCAUGGGGACCCAGUGUGCGAUGGCUGCACACAGCAGCUUCCUUGGUAGUGUACGCAGCCUGUUGGUUGUAUGGGUUGCUCUAAGGGACCUUGGAGACAGGC |

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| co3_7220697_x186 | CM000663.2/116278606-116278821 | 22 | ###### | 36.2 | 186 | AAGACTATACTTTCAGGGATCATTTATATGATTTGTGGCTACAGAAGTTTCTCAGCGTGAGGAGCCCCAGAAACCATGAGGAGGAGACGCAGCATTCTCTGTGGCGCGTGAGGCCAGCTCTTGGTTTTACTTCGCTACAACTGCATTTGCCATTGGTGATCGTTCTTCTCTCATCTCAGGGAGAGTAGAAGGGAGAGAAGATGCAGCCTGAGTGAT |
| co3_7234765_x184 | ENST00000625943.1 | 23 | ###### | 46.1 | 184 | TCTCAGTGATGAAAACTTTGTCCAGTTCTGCTACTGACAGTAAGTGAAGATAAAGTGTGT |
| co3_7238261_x184 | ENST00000384229.1 | 51 | ###### | 46.1 | 184 | TGCTCTGATGAAATCACTAATAGGAAGTGCCGTCAGAAGCGATAACTGACGAAGACTACT |
| co3_7242291_x183 | ENST00000408061.1 | 31 | ###### | 61.9 | 183 | GGGCTCCCATGATGTCCAGCACTGGGCTCTGATCACCCCTGAGGACACAGTGCACCCCAG |
| co3_7285684_x176 | ENST00000384214.1 | 32 | ###### | 63.9 | 176 | CTTCGATGAAGAGATGATGACGAGTCTGACTTGGGGATGTTCTCTTTGCCCAGGTGGCCT |
| co3_7294957_x174 | CM000682.2/41712600-41712479 | 23 | ###### | 30.2 | 174 | GTGTCCTTTTAAGGTTGACACAGTGCTTTAAGAGCCTAACACAGAAAGGTAAAGTAAGTTTCCGTAAAACCCAGAAATGATATTGCAAAATTCCTCTTTGAATCATGTCTGGAGTCACAGCT |
| co3_7297045_x174 | AC008443.10/63918-63851 | 28 | ###### | 56 | 174 | GGGGCGGUGAUGACCCCAACAUGCCAUCUGAGUGUCGGUGCUGAAAUCCAGAGGCUGUUUCUGAGCUG |

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| co3_7322653_x169 | ENST00000459342.1 | 24 | ###### | 48.1 | 169 | GTTCAGATGATGAATTTAACTGTTCAACTGCTGAATGATAACGGGCATGAACTAAAACTT |
| co3_7332773_x168 | AC007066.4/164516-164622 | 25 | ###### | 50.1 | 168 | AAGUUUUCUAAGUGUCUAAUGAUGAAUUUCAUAGGGCAGAUUCUGAGGUGAAAAUUUAAUUCAUCACUGAUACUCCUACUGUGGAAUCUGAAGACACUUGAAAACGU |
| co3_7344163_x167 | CM000674.2/103592112-103592243 | 19 | ###### | 30.2 | 167 | TCATCAGATGGGATAACTTTTACCTGTTCCTCCTTTTGGAGGTTAGATTCTAATACGATGATTGAAGTTCGTATGATACGTGATTAATGTCTCTGCATAATCAGGACTTGTAACACCTTGATTGCTTCTGAT |
| co3_7361860_x164 | ENST00000384027.1 | 37 | ###### | 58 | 164 | GTTTGAATGATGACTTTAATTGTCGGATACCCCTTCACTCCTTTTATGAGTGAAACATAA |
| co3_7376969_x161 | CM000672.2/68755172-68755238 | 26 | ###### | 52 | 161 | GAGTTATGATGTGTGTAAATCCTATTCCATTGCTGAAATGCAGTGTGGAACACAATGAACTGAACTC |
| co3_7395189_x158 | ENST00000384147.1 | 35 | ###### | 69.9 | 158 | CTACGGGGATGATTTTACGAACTGAACTCTCTCTTTCTGATGGATTAGTGGAGAAAACAG |
| co3_7417108_x155 | ENST00000363214.1 | 41 | ###### | 65.9 | 155 | TGATGACATTCTCCGGAATCGCTGTACGGCCTTGATGAAAGCACATTTGAACCCTTTTCC |

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|---|---|---|---|---|---|---|
| co3_7430475_x153 | AC013283.23/46245-46493 | 38 | ###### | 75.8 | 153 | AACAUGCUUCCUUAGAUCCACCUUUGUGGAUGAAUCUUGAACUGAGUUCCACUUGUAAACUUCUUGUUUCUUGUGGUUCCAGUAGUCAAAGAAACAUCCAGCAACUUUUUUGGUUGUAUAGUCAAAGGUGCUUGAGUCAUUGGCAUGUAAGAGAAAUAUACCUGCAUGUUAGUCUAACGUUCUGAUAGAAAUGACAUGCAUUUAUGCUGCCAUUUGUUACUAUCAGGACUCGACUCGUGUGCGGACAUU |
| co3_7443214_x151 | AC006435.7/3490-3399 | 32 | ###### | 63.9 | 151 | UAGAGAAGUCAAUGAUGGUUUUAUUCAUAUCGUCUGAACCUGUCUGAAGCAUCUCAGUGAUGCAAUCUCUGUGUGGUUCUGAGACUUCUCCA |
| co3_7448471_x150 | ENST00000607246.1 | 19 | ###### | 30.2 | 150 | ATTCATTTTCAAATATTTGCTGACTAAATGATACACACATGACTAAAACTTAATCCTGAC |
| co3_7450121_x150 | AC006597.2/8154-8065 | 14 | ###### | 28.2 | 150 | UCACUGUGAUGAUGGUUUUCCAACAUUCGCAGUUUCCACCAGAAAGGUUUUCCUUAGUGUUGGGUAAACCUUCCUUGGAUGUCUGAGUGA |
| co3_7485294_x144 | ENST00000384769.1 | 33 | ###### | 50.1 | 144 | AGCTTAATGATGACTGTTTTTTTTGATTGCTTGAAGCAATGTGAAAAACACATTTCACCG |
| co3_7492741_x142 | AC018761.6/51237-51168 | 18 | ###### | 28.2 | 142 | UGGGAAGUGAUGACACCUGUGACUGUUGAUGUGGAACUGAUUUAUCGCGUAUUCGUACUGGCUGAUCCUG |

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|---|---|---|---|---|---|---|
| co3_7500969_x141 | CM000668.2/132816802-132816877 | 28 | ###### | 56 | 141 | GCTGTACATGATGACAACTGGCTCCCTCTACTGAACTGCCATGAGGAAACTGCCATGTCACCCTTCTGATTACAGC |
| co3_7530425_x137 | ENST00000363836.1 | 14 | ###### | 28.2 | 137 | GGTCAATGATGTAATGGCATGTATTAGCTGAATCCAGAGTTGATATGAGTTCTAAAATTA |
| co3_7572074_x131 | ENST00000383875.1 | 46 | ###### | 83.8 | 131 | CTGCAGTGATGACTTTCTTAGGACACCTTTGGATTTACCGTGAAAATTAATAAATTCTGA |
| co3_7587083_x130 | CM000668.2/31835263-31835326 | 37 | ###### | 73.8 | 130 | AGTGATGATGACCCCAGGTAACTCTTGAGTGTGTCGCTGATGCCATCACCGCAGCGCTCTGACC |
| co3_7590831_x129 | D88010.1/2919-3009 | 18 | ###### | 36.2 | 129 | UCACUAUGAUGAUUGGUUGCCAGACAUUCGCAGUUUCCACCAGAAAUGUUUUUCCUUAUGUUGGCCAGUUCUUCCUUGGAUGUCUGAGUGA |
| co3_7635999_x123 | ENST00000516404.1 | 19 | ###### | 38.2 | 123 | TCCAGCTGTAGGCAGCTGCCTAGGTTGTCTTGTACCTAGGCAAGTGTTACACTGCTGGGA |
| co3_7639197_x123 | ENST00000363484.1 | 20 | ###### | 40.1 | 123 | ACCTGTATTCGAAAGTGATCGTGGGCTGCCTGTGCCCTGGTCATTGATAGTGCAGGGAGA |
| co3_7689802_x116 | AC010361.3/23932-23994 | 26 | ###### | 52 | 116 | GUGCAUGUGAUGAAGCAAAUCAGUAUGAAUGAAUUCAUGAUACUGUAAACGCUUUCUGAUGUA |
| co3_7751177_x109 | ENST00000384584.1 | 29 | ###### | 58 | 109 | CAGCATGTTTCCAAGGGCTGTGGCTGGTCATAGCCATGGGATCTCCAACTGCATGCAAGA |

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| co3_7755934_x108 | CM000670.2/20614926-20614833 | 27 | ###### | 30.2 | 108 | AAGACTATACTTTCAGGGATCATTCCTATAGTTCATCATTAGAGAAGTTCTCTGAACATGTAGAGCACCGAGACAAGAAATAACTAAGATCAGA |
| co3_7767930_x106 | CM000664.2/28927983-28928060 | 26 | ###### | 52 | 106 | TTGCTGTGATGACTATCATTGGGTTTCGCATGTTGCTGAGTTCCAGTGATGCCTCTTTTCTCTTGGCTGTCTGAGCAA |
| co3_7796258_x103 | ENST00000364884.1 | 25 | 8E-09 | 50.1 | 103 | GGGAATGATGATTTCACAGACTAGAGTCTCCGATGCTGGTCATGATGTCAAAACTAAGTT |
| co3_7799851_x102 | CM000665.2/154007502-154007367 | 22 | ###### | 28.2 | 102 | TCGTCAGGTGGGAGAATTCTTACATGTTCCTCCTTTTGCAAGGCAGATTAGAACATGATGATTGGGGTTCGCATAATATGTGATTAACGTTTCTGTGTAATCAGGACTTGCAACATCCCGAATGCCCTTACCTGAC |
| co3_7818441_x100 | ENST00000408376.1 | 20 | ###### | 40.1 | 100 | TGATGACTGTTCTTCCTGTTGCCTTCAGACCTGGCATTAGGATTTTAGGTCATCATAAAT |
| co3_7851658_x96 | CM000667.2/58070188-58070291 | 17 | ###### | 34.2 | 96 | ATCCTTTTGTAGTTTACGAGCATGATGATTGAGTGTTCACACACGGATGTGATATGTGCCACCCTCAAACCTTGTTACGACTTCAGCTTATTACCCAACTGACC |
| co3_7862259_x95 | CM000663.2/193731940-193731859 | 18 | 0.009 | 28.2 | 95 | AGCGTGAAGCTGGCTCTTGGTGCTCCTTCACTGAAAATGCCATTTGCCATTGATGATCGCTCTTCCCTTCCTCTGGGAGGAT |

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|---|---|---|---|---|---|---|
| co3_7892782_x91 | AJ609465.1/1-134 | 34 | ###### | 67.9 | 91 | UGGUAAUGGAUUUAUGGUGGGUCCUUCUCUGUGGGCCUCUCAUAGUGUACCCAUGCCAUAGCAAAUGGCAGCCUCGAACCAUUGCCCAGUCCCCUUACCUGUGGGCUGUGAGCACUGAAGGGGGUUGCACAGUG |
| co3_7894238_x91 | ENST00000408564.2 | 21 | 5E-07 | 42.1 | 91 | GTGGCCCTGACTGAAGACCAGCAGTTGTACTGTGGCTGTTGGTTTCAAGCAGAGGCCTAA |
| co3_7903132_x90 | ENST00000516236.1 | 16 | ###### | 32.2 | 90 | ATGGAGGCTGCAGTGAGCAGAGATGGCGCCACTGCACTCCAGCCTGAGCGACAACGAGAC |
| co3_7906192_x90 | CM000671.2/38147428-38147561 | 35 | ###### | 38.2 | 90 | TCGATGGGTGGGATAATCCTTACCTGTTCCTCGTTTTGGAGGGCAGATAGAACATGATGATTGGAGATGCATGAAATGTGATTAATGCCTCTGCCTAATCAGGACTTGCAACACCCTGAGTACTCCTCTCTGAT |
| co3_7906462_x90 | CM000667.2/140527428-140527352 | 20 | 0.0009 | 32.2 | 90 | GGTCAATGATGAGCTGACATGTATTCTGAATCTAAAGTTGATTATTAGTACTTTAGTTCTAGAATTACTGAGACATG |
| co3_7910692_x90 | ENST00000384176.1 | 24 | ###### | 48.1 | 90 | CTCCATGTATCTTTGGGACCTGTCAAGTGTGGCAGTCTCCCTTCCTTGCCATGGAAGAGC |
| co3_7911497_x89 | CM000663.2/30968236-30968164 | 27 | ###### | 54 | 89 | ACTGGCAAGGATGATACACACTTGCCCTCACTTAGACTATAGTTCACTGATGAGAGCATTGTTCTGAGCCAGT |

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| co3_7925679_x88 | ENST00000384581.1 | 36 | ###### | 71.9 | 88 | ATCCTCCTGATCCCTTTCCCATCGGATCTGAACACTGGTCTTGGTGGTCGTAAAAGGAGG |
| co3_7933133_x87 | ENST00000383903.1 | 20 | 2E-06 | 40.1 | 87 | AGTCTGTGATGAATTGCTTTGACTTCTGACACCTCGTATGAAAACTGCACGTGCAGTCTG |
| co3_7942071_x86 | CM000683.2/29180639-29180425 | 23 | ###### | 30.2 | 86 | AAGACGACGCTTGCAGGGATTGTTTCTATAGCTCACTACCAGATAAGTTTCTCCGAACATGTAGAGCACCAGAAACCACATGCAGCGGTGCAGCGCTCTCTCGGGAGCCTGACACTGGCTCTGGGTGCTGCTTCACTGCAACTTCCATTTGCCATTGAGAACTGTTCCGCTCTTCCTCTGGGAAAGTAAGAGAGAGAGGGTGCAATCTGAGGGGT |
| co3_7970021_x83 | ENST00000384304.1 | 15 | ###### | 30.2 | 83 | CCTTCTATGATGATTTTATCAAAATGACTTTCGTTCTTCTGAGTTTGCTGAAGCCACATT |
| co3_7980835_x82 | AF019618.1/48-114 | 21 | ###### | 42.1 | 82 | GGAUUUGUGAUGAGCUGUGUUUACUGAGCAUGAUGAAGUAAAGCUCAACGUGAUUACUCUGAAGUCC |
| co3_7988024_x81 | AJ609486.1/1-187 | 26 | ###### | 52 | 81 | ACGGUCUGGGGAAAGGCUCCUGUGUUGUUGAGCCUGCCAAGUUGUGGGUGCAGCAUGGUACCAGGCAGCCCAACCCUGACCUAAAGUAAAUUCCCGGAAGAAGUCUUUCCUGGGUUUUGAAUUUGCAGUAACAGGUGUGAGCAUUCUAGCAGCAGUUUGAUGAUCAUGUAUGAUACUGCAAACAGGA |

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| co3_8020434_x78 | ENST00000459004.1 | 23 | ###### | 46.1 | 78 | TTGCATGTGGAAATGTCTGCTTCTCATTCCTTGGGAGCAGGAATATGTTCATAACATGCT |
| co3_8021604_x78 | ENST00000365530.1 | 36 | 3E-08 | 48.1 | 78 | AGCACAAATGATGAATAACAAAGGGACTTAATACTGAAACCTGATGTTACATTGTAGTGT |
| co3_8034210_x77 | AL121809.6/172081-172016 | 19 | ###### | 38.2 | 77 | CUGUGAUGAUGGCAUUUCUUAGGACAAUUUUGGAUUAAUUAUGAAAACAACUACUCUCUGAGCAAU |
| co3_8035827_x77 | CM000668.2/24166273-24166374 | 19 | ###### | 30.2 | 77 | CTCGAGGGTGATGAAAAAGCATCCCTAGGTGTGGTTGTGGCATCTTGGTCACCTATGTGCCACCTGCCAGTGCAAGGATTTGTCATAGTTATAGTGACCGTG |
| co3_8037591_x76 | ENST00000384583.1 | 43 | ###### | 85.7 | 76 | TTGGCCCTGAATCAAGGCCAGCAGTTTGCTGAAGCTGTTGGTTTCAAGCAGGAGCCTAAA |
| co3_8045799_x76 | AP000577.5/69612-69474 | 23 | ###### | 30.2 | 76 | GAGCUUCCAGGAUCACCCCUGCAGAGUGGCUAAUAUUCUGCCAGCUUCGGAAAGGGAGGGGAAGCAAGCCUGGCAGAGGCACCCAUUCCAUUCCCAGCUUGCUUAGUAGCUGGCCAUGGGAAGACACUGUGCAACACUG |
| co3_8054380_x75 | CM000685.2/23507313-23507211 | 20 | ###### | 40.1 | 75 | ATCCCTTTATAGTTCCCGAGCATGACGATTGGGTGTTCACATGCATGTGTGAGATGTACCACCCTCGCATCTTGTTAGACGTTGGCACATTACCCGTCTGACC |

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| co3_8076170_x73 | ENST00000606769.1 | 17 | ###### | 34.2 | 73 | AAGCAACACTCTGTGGCAGATGATCAAAACTGTCTGACACAATTTGAGCTTGCTATAGCA |
| co3_8079236_x73 | ENST00000516231.1 | 14 | 0.008 | 28.2 | 73 | TGAGATGAGATCATGCCATTGCACTCCAGCCTGGACGACAGAGCGAGACTTCATCTCAAA |
| co3_8087971_x72 | ENST00000386847.1 | 21 | 5E-07 | 42.1 | 72 | TGTCCCTGACCTGGGTAGAGTGGCATCTGGTTGGTGATGCCCATCTCATATCAGCCAGGG |
| co3_8093898_x71 | CM000682.2/2654212-2654286 | 27 | 2E-10 | 54 | 71 | TTGCAGTGATGACTTGCGAATCAAATCTGTCAATCCCCTGAGTGCAATCACTGATGTCTCCATGTCTCTGAGCAA |
| co3_8104920_x70 | CM000663.2/92837289-92837383 | 28 | ###### | 56 | 70 | GCTGAATGATGATATCCCACTAACTGAGCAGTCAGTAGTTGGTCCTTTGGTTGCATATGATGCGATAATTGTTTCAAGACGGGACTGATGGCAGC |
| co3_8110030_x70 | CM000674.2/88866643-88866763 | 30 | ###### | 36.2 | 70 | TGTCTCTGACCTGGTTAAAGTGGCATCTGGTTGGTGGCACTTATCTCAAATCGCAAAGACATAAGGCAACCTCTTGTTTATCCCAGCTTGGCTTTTTGTTTTTTGTTTTTTAGACAGGGTC |
| co3_8124851_x69 | CM000663.2/175968540-175968398 | 31 | ###### | 61.9 | 69 | AATGGAAGCTGCTGGAACCAGCCATGTGGACAAATGAAAAAATGCCTTTTGTCTACAGATTGCAGCGATCCTACATAAATATATGGAGGTCTCTGTCTGGCTTAGGACAGCTGGCTAAGTCTGATCGTTCCCCTCCGTACAGC |

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| co3_8133838_x68 | AC020553.4/138195-138051 | 41 | ###### | 34.2 | 68 | AAUCUCCUGGGAUUGUGUCUGGCGAGUGCCCAGUAUUCUGCCACCUUCAGAAGGAAGGGAAAGCAAACCUUCAUGAAAGCAGAGGCAUUCAUUCCAUUCCCAGCUUGCUCCAGAUCUGGCAGUUGGAAGACAUUCUGCAACAAUG |
| co3_8134314_x68 | ENST00000516599.1 | 33 | ###### | 42.1 | 68 | TGTCAGTGATGAAAGCTTAGTCCCGTTCTGCTACTAATGTTAAGTGATGATAAAGTTATG |
| co3_8140390_x67 | CM000673.2/62855632-62855564 | 21 | ###### | 42.1 | 67 | CTTCCTATGATGAGGACCTTTTCACAGACCTGTACTGAGCTCCGTGAGGATAAATAACTCTGAGGAGAT |
| co3_8151870_x66 | ENST00000458770.1 | 23 | ###### | 46.1 | 66 | CCACATGCGGCTGATGACAGCACTTCTGCTGAGACGCTGTGATTGCTCTGTCCAAAGTAA |
| co3_8164796_x65 | ENST00000459433.1 | 31 | ###### | 61.9 | 65 | GGTTCATGATGACACAGGACCTTGTCTGAACATAATGATTTCAAAATTTGAGCTTAAAAA |
| co3_8167461_x65 | ENST00000384674.1 | 46 | ###### | 91.7 | 65 | ACTCTCTCGGCTCTGCATAGTTGCACTTGGCTTCACCCGTGTGACTTTCGTAACGGGGAG |
| co3_8168501_x65 | AC010653.10/104059-104144 | 29 | ###### | 58 | 65 | UGUGUGUUGGAGGAUGAAAGUACGGAGUGAUCCAUCGGCUAAGUGUCUUGUCACAAUGCUGACACUCAAACUGCUGACAGCACACG |
| co3_8173787_x64 | ENST00000364977.1 | 21 | ###### | 34.2 | 64 | ACCACCAGTGATGAGTTGAATACTGCCCCAGTCTGATCAACATGCGTGAAAGATATTTTC |

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| co3_8178907_x64 | AF141346.1/3076-3157 | 48 | ###### | 56 | 64 | CCGAUACAAUGAUGAUAACAUAGUUCAGCAGACUAACGCUGAUGAGCAAUAUUAAGUCUUUCGCUCCUAUCUGAUGUAUCUG |
| co3_8184950_x63 | ENST00000628590.1 | 24 | ###### | 48.1 | 63 | ACGCGCTGTCTTTGAGCCCCCGCCGAGCTTCCTCGTGGCGCCGGGGGTCAATCTGCAGCG |
| co3_8189297_x63 | CM000672.2/56596031-56595963 | 27 | ###### | 46.1 | 63 | TGATGAATTGATGACAGTCATCTTTTGAGAGTGACCCAAAATGAAAAGAATACTCATTGCTGATCACTT |
| co3_8195389_x62 | CM000663.2/154259727-154259862 | 27 | ###### | 54 | 62 | GGGCATACCCGTAGACCTTGTCTGACTGTGCTCATGGCCAGGCAGGGGGACAGTGTATGCAAGAGTAATGTGGAGTTTGTGCTAACTCTAGCCAGCTTAATTAGTGACTGGATAAATTGCACAACTCTCACATTC |
| co3_8198799_x62 | CM000663.2/44775864-44775943 | 23 | 4E-08 | 46.1 | 62 | CGTGTATGATGACAACTCGGTAATGCTGCATACTCCCGAGTGCGCGGTGGGGAAGCCAACCTTGGAGAGCTGAGCGTGCG |
| co3_8200287_x62 | ENST00000579969.1 | 29 | 3E-11 | 58 | 62 | ATGCTATGATGACATCCATATGGTTTCGCTGCTGGCTGAGTTTCAGAGATGACACCTTTC |
| co3_8201713_x62 | AC006435.7/2333-2239 | 15 | ###### | 30.2 | 62 | CUUAAGAGCCAAUGAUGUUUUUAUUCAAAAUGUCUGAACCUGUCUGAAGCAUCCCAGUGAUGCAACUUCUGUGUGAUACUGAGGCUUUUUUGCCA |

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|---|---|---|---|---|---|---|
| co3_8211668_x61 | AB017710.1/1702-1771 | 24 | ###### | 48.1 | 61 | AAUCAAUGAUGAAACCUAUCCCGAAGCUGAUAACCUGAAGAAAAAUAAGUACGGAUUCGGCUUCUGAGAU |
| co3_8215145_x61 | ENST00000391081.1 | 19 | ###### | 30.2 | 61 | TGTTCCCGATCTGGTAGAGTAGCATCTGGTTGGTGGTGACCATCTAATACCAGCCAGGGA |
| co3_8219080_x60 | ENST00000384339.1 | 26 | ###### | 52 | 60 | CTGCGAATATTCTCGCTGTTCTGATTTTGTAATAGTCAGGACAGGCTAAACATTCGCTAT |
| co3_8227540_x60 | CM000684.2/29333258-29333163 | 14 | 0.009 | 28.2 | 60 | ACCCCTGGCAGCCCCTCCTGATGATTCTTCTTCCTGAGCACGCTCATGATGAGCAAACTGAGCCTCTAAGAAGTTGACTGAAGGGGCTGCTTCCCC |
| co3_8232884_x59 | ENST00000516652.1 | 15 | ###### | 30.2 | 59 | GCTACTCTTGAACTCCTGACCTCAACTGATCCACCCGCCTCGGCCTCCCAAAGTATGAAA |
| co3_8235598_x59 | AC078797.20/67061-67136 | 27 | ###### | 54 | 59 | UUCCUCUGAUGACUUCCUGUUAGUGCCACGUGUCUGGGCCACUGAGACACCAUGAUGGAACUGAGGAUCUGAGGAA |
| co3_8243606_x58 | CM000665.2/52691378-52691453 | 22 | 1E-07 | 44.1 | 58 | AAGAAATGAAGAAACTAAAATTGGTCTTAGTATTGAAGTGAAGACACTGAGATCCAACTCTGATCTTGCCCTAAAC |
| co3_8249116_x58 | CM000682.2/2656624-2656694 | 20 | ###### | 40.1 | 58 | CCACAATGATGGCAATATTTTTCGTCAACAGCAGTTCACCTAGTGAGTGTTGAGACTCTGGGTCTGAGTGA |
| co3_8254684_x58 | ENST00000384662.1 | 26 | ###### | 52 | 58 | CTTCCCATTTATTTGCTGCTTGTAGTCTCACAGTGATACGAGCAGTTATACGCATGGGAT |

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| co3_8272744_x56 | AC090233.16/1998-1865 | 40 | ###### | 32.2 | 56 | UCAUCAGGUGGGAUAAUCCUUACCUGUUCCUCGUUUUGGAGGGCAGAUAGAACAGGAUAAUUGGAGUUUGCAUGAUCCAUGAUUAAUGUCUCUGUGUAAUCAGGACUUGCAAACUCUGAUUGUUCAUAUCUGAU |
| co3_8278285_x55 | ENST00000383870.1 | 40 | ###### | 79.8 | 55 | CCTCCTTTTCTTGGCGGGGATCGGGCTTGTGGTGCCGCTCCCCGTAATGTACGGAGGAAG |
| co3_8284995_x55 | CM000679.2/8034584-8034487 | 14 | ###### | 28.2 | 55 | ATCCTTTTGTACTTGGTAAGCATGATGATTGGGTTTTTATGCTTATATATGAGACATGCTTGTCTCAAATCTTGTTACAGCACATTACCCTTCCTACT |
| co3_8293508_x54 | KN196479.1/175490-175564 | 38 | 1E-16 | 75.8 | 54 | TGCAGATGATGTAAAAGAATATTTGCTATCTGAGAGATGGTGATGACATTTTAAACCACCAAGATCGCTGATGCA |
| co3_8307683_x53 | CM000682.2/38421774-38421647 | 21 | ###### | 34.2 | 53 | TCTTGTATCCAAAAGTGATCATGGGTTGCCTGTGTCCCGATCATTAACAGTGCAGGGGTAGGAGTGCTGAAAGACATCTTCCCTGCGTTGGTCCAGCCTTCCCTTTCAAACCCTGGAGCTTTCCCACG |
| co3_8308372_x53 | ENST00000362761.1 | 27 | ###### | 54 | 53 | GCGGCCGGTGATGAGAACTTCTCCCACTCACATTCGAGTTTCCCGACCATGAGATGACTC |
| co3_8308743_x53 | ENST00000581525.1 | 39 | ###### | 30.2 | 53 | CGTGTATGATGACAACTCGGTAATGCTGCATACTCCCGAGTGCGCGGTGGGGAAGCCAAC |

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|---|---|---|---|---|---|---|
| co3_8327968_x52 | ENST00000408418.2 | 15 | ###### | 30.2 | 52 | AAGACTACACTTTCAGGGATCCTTTCTTCAGTTCGTTACTAGAGGTTTCTCTGAATATGT |
| co3_8339923_x51 | AB061837.1/2430-2563 | 27 | ###### | 54 | 51 | UGGUCCAUCCUAAUCCCUGCCGGUCCAUCUGUGGCCUGCCAGGUUUCGCUUGUGGACCAGAGCACCCUAGAAGCCUCACCCGAGGAGUGAGCAGGGCUCCAGUGGGCUCACGUCAUGGGCACUUCUAGACACUC |
| co3_8348861_x50 | ENST00000516528.1 | 26 | ###### | 52 | 50 | ATGCATCTATTTGACAGACCTGGAGCAGTTAGTGTGTGCTGCTAAGGTTTCTACCTCTAG |
| co3_8352111_x50 | CM000681.2/57134260-57134049 | 17 | ###### | 34.2 | 50 | CACTTTATACTTTTAGGGATGATTTCTATAATTCATGAGTGGAGAGGTTTCTCTAGAGGTGTAGGGGACTGGAAACCACATCCAGGAAGTACAGCTTTCTCTCCTGAGCATGAAGGTATCTTGGCATTTCTTCACTGCAATTGCCATTTGCCTTTTTTGTTTTTCCTTTTGAGATAGGGTGTCACCTGTTGCCCAGGCTGGAGGGCAGTGGT |
| co3_8363746_x49 | ENST00000362874.1 | 27 | 0.008 | 30.2 | 49 | TTGCAATGATGTGAATCTCTCACTGAATTCAACCTTGAAGTGCGAATCCATGAGCTTTTT |
| co3_8372468_x49 | ENST00000390856.1 | 21 | 5E-07 | 42.1 | 49 | TTCCTCTGATGACTTCCTGTTAGTGCCACGTGTCTGGGCCACTGAGACACCATGATGGAA |
| co3_8383177_x48 | ENST00000516708.1 | 17 | 0.0005 | 34.2 | 48 | CCTCATTGATTAGTAGCTTCTGACTTTTGTTCTGAGTTTGCTGAAGCTAGATGCCATTCC |

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| co3_8393459_x47 | L36588.1/797-921 | 25 | ###### | 50.1 | 47 | UCCCAAUGAAGAAACUUUCACAUGUCUUACUCUCUGUCCUAGUCCCAGAGCCUGUAAAGGUGAACCACUGGGACUGGCUGGGGGAGAAGAGGAAGAUUUGUUCCAGAAGGAACUGUCUGAGGGAU |
| co3_8412319_x46 | AC006064.10/138690-138555 | 34 | ###### | 67.9 | 46 | UUGUCCUGGCCUAUUUUUCUGCUCCCCUGUGCUCAGUUCUAACAGGGUAGUCUGGCAGGACACACAGCAAUUCCCUCUCAGUUUAGGAGGGCCGUCCUAAGAAUAGGGCUGGCUCUUAAAGGCACGAGAGGACAAU |
| co3_8430901_x45 | ENST00000410557.1 | 24 | ###### | 48.1 | 45 | TGATGGCTGTTCCTCTCACTGCTTGAAGCCTTAGGCAGTGGGATTTTGATCCATCATATA |
| co3_8440797_x44 | CM000663.2/173864445-173864369 | 23 | ###### | 46.1 | 44 | AACCAATGATGTAATGATTCTGCCAAATGAAATATAATGATATCACTGTAAAACCGTTCCATTTTGATTCTGAGGTT |
| co3_8445197_x44 | AC097720.5/86379-86467 | 20 | 2E-06 | 40.1 | 44 | UGGUGCUGUGAUGAUGCCUUAAUAUUGUGGUUUCGACUCACUGAGAGUAAAAUGAGGACCUACAAUUCCUUGGCUGUGUCUGAGCACCC |
| co3_8452053_x43 | ENST00000365493.1 | 24 | 1E-08 | 48.1 | 43 | TGTGCACATTGTTAGAGCTTGGAGTTGAGGCTACTGACTGGCCGATGAACTCGCAAGTGT |
| co3_8453472_x43 | AJ224027.1/1-88 | 19 | 3E-05 | 38.2 | 43 | UACUGUUAGUGAUGAUUUUAAAAUUAAAAGCAGAUGGGAAUCUCUCUGAGAAAGAAAAUGGGAGAUUAAUCCUUAACCUGAAACAGUA |

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| co3_8462932_x43 | AC117503.8/209801-209669 | 25 | ###### | 50.1 | 43 | UAGCAAGCCUCCAGCGUGCUUGGGUCUGCAGUGACCCCGUGGAUUCCUACAGGGCUUGCCAGAACAGUUUUGAAAUGGUUUGAGGCCUUGCCGUGCUCCAUGUAGAGCAAGGUUAUAGAAAUUUCAGACAAUG |
| co3_8463491_x43 | ENST00000384792.1 | 27 | ###### | 54 | 43 | GTGCAAACTCGATCACTAGCTCTGCGTGATGTGGCAGAAGCGAAGGGAACCAGGTTTGCA |
| co3_8466375_x42 | ENST00000384512.1 | 33 | 1E-13 | 65.9 | 42 | GGTCAATGATGTGTTGGCATGTATTATCTGAATCTATTGCTGATGTGTAATAACACTTTA |
| co3_8466585_x42 | ENST00000391305.1 | 26 | 8E-10 | 52 | 42 | GCCGAGACTAGAGTCACATCCTGACACAACTCTTGTCCTGGTGTGCTAGAGTACTCGAAG |
| co3_8467551_x42 | ENST00000364113.1 | 26 | ###### | 52 | 42 | ATCGAGGCTAGAGTCACGCTTGGGTATCGGCTATTGCCTGAGTGTGCTAGAGTCCTCGAA |
| co3_8477463_x42 | ENST00000391209.2 | 18 | ###### | 28.2 | 42 | AAGACGATACTTTCAAGAATCATGATCATTCTATACAGTTCATTACTAGAAAAGTTTCTC |
| co3_8486212_x41 | ENST00000384072.1 | 25 | ###### | 50.1 | 41 | TGGTCATTACCAAGGCTTTTAGAATGCAGTTTCTCATTTGCTGTGGACATGACCATAAAA |
| co3_8497528_x41 | ENST00000386148.1 | 38 | ###### | 44.1 | 41 | GATCCTGGTGATGACAGACGACATTGTCAGCCAATCCCCATGTGGTAGTGAGGACATGTC |

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| co3_8498899_x40 | AY077740.1/1-330 | 22 | 1E-07 | 44.1 | 40 | UGGAAAUGAUGAAAUAGAGAUAAUUGGGUGUUGAAUGUUGUAUGACUGGAAAUUUUUAAUAUGUAUAUUAUGUAAUUCUUAUAAGUUUAGUGUUUUAUAGGUACUUAAUAGAGAGUGUGUAUGCAUGUGUGUGCUUGUGGUGGCUAUGGAAAGGGGGCACUGACUGGUGAUGCUGAUAUUGGAGUGCAUCUGAGGCUGUUGUAGAAAUAACAUGGGUUGUUGAUUACAACAUUGCCAAUGAUUAUAACCCAAGAACAGCUCACCUAACUAGCCUGGCACCCUAAAAUCUCUAACAGGUUCAUUAAAAUGGUCCUGUGAUCUGAUCCAA |
| co3_8504299_x40 | ENST00000577887.1 | 17 | ###### | 34.2 | 40 | TTGCTGTGATGACTATCATTGGGTTTCGCATGTTGCTGAGTTCCAGTGATGCCTCTTTTC |
| co3_8515184_x39 | ENST00000384384.1 | 23 | ###### | 46.1 | 39 | GGGTCATTTCAAAGAGGGCTTATGAGGCTGTGAAACCCAGAGCTCTTAACGCTGTGACCA |
| co3_8518967_x39 | CM000679.2/44025223-44025020 | 15 | ###### | 30.2 | 39 | AAGCTTGTACTCTCAGTGATCATTGCTGTAGTTACGAGATAAGCTTCTCTGAACATGCAGAGCAGTGGTAACTATGAGGAGGCACAGTCTCTCCTGAGCATGACTCTGGCTGTTGGTGTGGCTTTGCTGCAGCTGCCGTGTGCCATTGATGATCCTGCTCCTCTTCCTTCGGGAAAGTAAGAGGGAGAGAACAGTCTGAGTGGG |

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| co3_8534190_x38 | ENST00000384567.1 | 43 | ###### | 85.7 | 38 | ATGCGATGATGAGTGAAGTAGAGCCTGACCTGGTATTGCCATTGCTTCACTGTTGGCTTT |
| co3_8536394_x38 | ENST00000364287.1 | 23 | 2E-05 | 38.2 | 38 | TATTCTTCTTGTTAGAGCTCGGAGTTGAGGCCAGTGACTGGCCAATGAACTCACAAGTGT |
| co3_8540042_x38 | ENST00000363107.1 | 15 | 0.005 | 30.2 | 38 | CCAATGTGTAATATCCTGGGATATCATTTTTTCTAGGCTTTGTCCACATGGCTTAGGGGA |
| co3_8542474_x38 | CM000674.2/110496421-110496352 | 43 | 4E-10 | 54 | 38 | AATCAATGATGAAACCTATCCCAAAGCTGATGACCTGAAGAAAAATACGTACAGATTCAGCTTCTGAGAT |
| co3_8549498_x37 | AY077742.1/1-131 | 25 | 3E-09 | 50.1 | 37 | UGGGAGGCUGAUACACAAAUUGGGCUGAAAUACUGCUCUACUUGUCACCAUGCCUCCCUAGAAUAAACUGCCUUUUGAUGACCGGGACGAAUUGAGUGAAAUCGUAACGGACAGAUACGGGGCAGACAGAU |
| co3_8575610_x36 | CM000673.2/62853968-62853904 | 33 | 1E-13 | 65.9 | 36 | TTTCTATGATGAATCAAACTAGCTCACTATGACCGACAGTGAAAATACATGAACACCTGAGAAAC |
| co3_8576654_x36 | CM000663.2/156192176-156192063 | 21 | ###### | 34.2 | 36 | TTGCCGCCCACACAACCAAATTAAAAAATAACACAGAAGGGTAAGGTAAGTCTCCATTAAACCCAGGAAAGAGACTGGAAAACTCCTCTTTGGAGCCTGTCTATAGTCACAGGT |

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|---|---|---|---|---|---|---|
| co3_8576834_x36 | CM000671.2/127448630-127448501 | 43 | ###### | 85.7 | 36 | CCCGCCACTGCACCTGACCAGGTCTCTGTTGGCTGGTGCAATCCAGTGGTGAGCTGATAGTAAACCCCAGCTTAGGAAACAGGGTTGTTCTTCATGTGGATGACTCTGTGCCGAAAGCATGGGAACAGCC |
| co3_8579164_x35 | CM000667.2/15110920-15110786 | 41 | 0.0005 | 34.2 | 35 | TCATCAGGTGGGATCATCCTTACCTGTTTCTCCTTTTGGAGGGCAGATCAGAACATGATGATTGGAGAAGAATGAAACGTGATTAATAACTCTGTGTAATCAGGCCTTGCAGCACCCCAATTGAGCCTTTCTGAT |
| co3_8582209_x35 | AJ609467.1/1-135 | 22 | 1E-07 | 44.1 | 35 | AGCACUAUAUUUAAACCUGUGGAUGGGAAUAUUCCCCAUUCUUGGUUACGCUGUAGUGCAAAAGAAUUCCUGGCUCUCUGUUGCACAGCUGACUUGUGCCAUUCUGCUGUUGCUGUAUAGAGUUAAGGAACAUGG |

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| co3_8595759_x34 | AF492209.1/1-275 | 28 | 6E-11 | 56 | 34 | AAUCUGUAGUCUUGGAGCCGCACAGGGUUGGUGGUACCCUCGAGCACACCAGACUUGCAGAAAAAGCAUACUCCAGAGGAAGCUGAGGCAUGCCUGCUCGAGAGCCAGCUGUUCCAUGUGCAAUUUUCCUCUGAUAGUUUCUGGUCACUGUUGCCACGGUGAUAAUGACUGGGCUAUGUCAUUAUCUAUCCGCCAACAGUAAGAGAAGCUUUGCAGUCGAGAUAUUGUUUAGCAGAUGGAGUGUUUUCUGUUGAACACUAAGUACUGCCACAAGU |
| co3_8603307_x34 | CM000663.2/173866028-173865968 | 40 | 7E-18 | 79.8 | 34 | CCTGGATGATGATAAGCAAATGCTGACTGAACATGAAGGTCTTAATTAGCTCTAACTGACT |
| co3_8620086_x33 | ENST00000362981.2 | 15 | 0.007 | 30.2 | 33 | AAGACTATACTTTCAGGGATCATTTCTACATTTCCGGGTAATTTCTTTGAACATGTGGAG |
| co3_8623353_x33 | ENST00000391145.1 | 33 | 8E-14 | 65.9 | 33 | TTATAAGTTTTCTAAGTGTCTAATGATGAATTTCATAGGGCAGATTCTGAGGTGAAAATT |
| co3_8626092_x33 | AC092184.7/50327-50196 | 17 | ###### | 34.2 | 33 | UUGUCCUGGCCUAGGCCAUUUCUGCUCCCCCGCGCUCAGUCCUAGCAGAGUAGUCUGGCAGGACGCACAGCAAUCUCCCUCUCAGUUUAGGAGGGCCGUCUCCUAAGAAUAGGGCUGGCAGGAAAGGACAAU |
| co3_8631343_x32 | ENST00000517031.1 | 18 | ###### | 28.2 | 32 | TATAGTGTGGCCATGGGATCTCCAACTGCATGCAAGAGCAACCTGGAGAGACTTTGACAG |

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| co3_8633423_x32 | CM000673.2/115627185-115627082 | 18 | ###### | 28.2 | 32 | GTCCTTTTGTAGTTCATAAGCGAGATGATTGGGTGTTCAGGCACATGTGTGAGATGTGCCTCCTTCAAACCTTGTTACAACGTCAGCACATTACCCGCCTGACA |
| co3_8642831_x32 | AC016868.8/21258-21186 | 24 | 0.0006 | 32.2 | 32 | GUGUGAUGAAAUCACCCCAAAUAGCUGGAAUUACCAGCAGAUUGUGUAGUGGUGAACCUACAAUUUUCUGAAG |
| co3_8649537_x31 | CM000677.2/25070432-25070526 | 33 | 8E-14 | 65.9 | 31 | GGATCGATGATGAGTCCTCCAAAAAAACATTCCTTGGAAAAGCTGAACAAAATGAGTGAGAACTCATACCGTCGTTCTCATCGGAACTGAGGTCC |
| co3_8668293_x30 | ENST00000386745.1 | 23 | 4E-08 | 46.1 | 30 | GCTGTTCAGTGATGAGGCCTGGAATGTGCGCTGGGCACAGCGCCCGAGACAGACTGCGGA |
| co3_8668983_x30 | AC102799.9/53508-53611 | 37 | 4E-16 | 73.8 | 30 | UGGUCUCAAGGAAGGGAUGAUGUUCCAGUUGAGACUCAAGAAAAGGAUUCUGAGCCUCAGAGCUUUGAAGGAGCCACUUGGUCCCUGACCUUCCUAGAGGCAAA |
| co3_8669463_x30 | CM000667.2/138561110-138561043 | 31 | ###### | 61.9 | 30 | GTGCAATGATGTATTTTATTCAACACATCATTCTGAAAGAACGTGTGGAAAACTAATGACTGAGCACA |
| co3_8669943_x30 | CM000667.2/181241892-181241814 | 32 | 3E-13 | 63.9 | 30 | GGTCCTGGTGATGACAGATGGCATTGTCAGCCAATCCCCAAGTGGGAGTGAGGACATGTCCTGCAATTCTGAAGGGATT |

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| co3_8671953_x30 | CM000673.2/62854695-62854621 | 22 | ###### | 44.1 | 30 | GTCAGATGATTTGAATTGATAAGCTGATGTTCTGTGAGGTACAAAAGTTAATAGCATGTTAGAGTTCTGATGGCA |
| co3_8673843_x30 | ENST00000391143.1 | 22 | ###### | 28.2 | 30 | TGTCCTTGACTTGGGTAGAGTGATGTCTGGTTGGTGCTGCCTATCTCATATAAGCCAGGG |
| co3_8688417_x29 | ENST00000365382.1 | 20 | 2E-06 | 40.1 | 29 | TCGCTGTGATGAGTGATTGTTAAACATTCGTAGTTTCCACCAAAAGCTTGGCTAATGATG |
| co3_8691230_x29 | ENST00000384281.1 | 22 | ###### | 44.1 | 29 | GAGCACTGTTCGTAACCCGTTAGCCTGGCTGTAGCTAATGGGTTCCATTCCGGTGCAATA |
| co3_8697784_x29 | AJ609480.1/1-137 | 33 | ###### | 65.9 | 29 | GAGCACCUGAAUCUUUCCCAUUCCUUGCUGCCUCGUGCCGGUGUGGGGACAGAUGGUGCUACAGAAUGAGCAGAGGAAAUCCAGACAGGUUGUUUUCCAUUUGUCUUGGGGCCUGUCUCUACAGCUCUGCCACAUUU |
| co3_8713180_x28 | AC023950.6/158570-158435 | 26 | ###### | 52 | 28 | UGCCCCAUUCUCAAAGAGAAUAGGCACUGUUGAUCAUGCGAUCCAGAGAUUGUUAAUGGGGCUGCAUUGAGAAACAAGCUAUGUUUCCAUUCACAGCAAACACAUCGCAGUGGUGACAAUGAGACCUGUAACAUUU |
| co3_8719984_x28 | ENST00000384533.1 | 15 | 0.008 | 30.2 | 28 | GGATCGATGATGACTTTCATACATGCATTCCTTGGAAAGCTGAACAAAATGAGTGAAAAC |

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| co3_8721076_x28 | AJ609471.1/1-132 | 38 | ###### | 75.8 | 28 | GUUGAGGUCUAUCCCGAUGGGGCUUUUCCUGUAGCCUGCACAUCGUUGGAAACGCCUCAUAGAGUAACUCUGUGGUUUUACUUUACUCACAGGACUAUUGUUAGAUCUGUGGGAAGGAAUUACAAGACAGUU |
| co3_8727050_x27 | AF308283.1/1-330 | 25 | 3E-09 | 50.1 | 27 | GCCACAUGAUGAUAUCAAGGCUGUUGUGAUUCAGUUGGUUUGGCUAAGCCCAGGGACCUUUGGCCUGUUAAAGGUCUGUAAUCUUGGUGGGCGAUACAGAGUUAUGUGUGUUCACUGUAAGGGCAGACCAACAAGAACUUUUUCCUACUUUUGAGCUACCUCUUUUUAAUAGGGGUGAUUCUUCCAGUUGCUGGAGAGAAAUUGUGGUAACUGGAGUGAGAGAGUAGGAACAGGGCAUGUUCAGGGUAUCAGGGCCAAGGGUCCUAAAGGACUUAGCUUGUGUUAUGGCCACUGAGAGAUGAAACACAGAUCUUUGGUAAUCUGAUGGCU |
| co3_8738687_x27 | AC011031.12/168663-168575 | 20 | ###### | 40.1 | 27 | GCUGGCACAAUGAUGACUUAAAUUACUUUUUGCCGUUUACCCAGCUGAGGUUGUCUUUGAAGAAAUAAUUUUAAGACUGAGAUGCCAGU |
| co3_8739362_x27 | ENST00000384574.1 | 19 | ###### | 38.2 | 27 | TGCACTGCATGGTATCTGCACTCAGCAGTTTACACCTGCTAGGGTGTTCAAAGGTCAGTG |

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| co3_8745493_x26 | CM000682.2/49280319-49280409 | 46 | 2E-21 | 91.7 | 26 | GCTGGCATATATGATGACTTAGCTTTTTCCCCGACAGATCGACTATGTTGATCTAACTTTTCTAAGCCAGTTTCTGTCTGATATGCCAGC |
| co3_8752825_x26 | ENST00000585078.1 | 15 | ###### | 30.2 | 26 | GTGCTGTGATGATGCCTTAATATTGTGGTTTCGACTCACTGAGAGTAAAATGAGGACCTA |
| co3_8762237_x26 | ENST00000390962.1 | 44 | ###### | 56 | 26 | AAATAATGAAATCACCCAAAATAGCTGGAATTACTGGCAGATTGTGTAGCAATAAACCTA |
| co3_8764913_x25 | ENST00000384252.1 | 27 | 2E-10 | 54 | 25 | GCTATGATGAATTTGATTGCATTGATCGTCTGACATGATAATGTATTTTTGTCCTCTAAG |
| co3_8768563_x25 | ENST00000391309.1 | 21 | ###### | 34.2 | 25 | ATACATGATGACTTACATGGACTCTCATTCAGCTAATGACTTGCTGCTGAAACATGGAAA |
| co3_8769513_x25 | ENST00000517283.1 | 19 | ###### | 30.2 | 25 | ACCTTCTTGTTTAAGCTCTGTACTAAAATTGCAGAAACTAGTATCGTGTCTTACCATTTG |
| co3_8771588_x25 | ENST00000408716.1 | 35 | ###### | 69.9 | 25 | GCAGACTCACTATGCACCTGACTGTACTTCCAGGCAGGTGCTTTTTCTGTCTGCCAGAGA |
| co3_8779488_x25 | CM000684.2/39315307-39315213 | 41 | 2E-18 | 81.8 | 25 | GCTGTTCGTTGATGAGGCTCAGAGTGAGCGCTGGGTACAGCGCCCGAATCGGACAGTGTAGAACCATTCTCTACTGCCTTCCTTCTGAGAACAGC |
| co3_8795969_x24 | ENST00000363961.1 | 22 | ###### | 44.1 | 24 | TTGCAGTGATGTAAAATTTCTTGGCCTGAAATTACTGTGAAGAGTAAAACCGAGCTTTTT |
| co3_8796209_x24 | ENST00000391100.1 | 24 | 3E-06 | 40.1 | 24 | TCCAGCAGTAGTCAGCCATCCGGACAGAACCGTTCCTGTGATGGTGTTACACTGCTGGGA |

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| co3_8796833_x24 | AC055855.9/110736-110601 | 18 | ###### | 36.2 | 24 | GUGACUGUUCCUGGUAUUGAUUGCAUUUGUUAGUUGUACAGUGCAACCAUAGACAGUCACACACAUUAAAACAGAUGGUUCCUGCCGACAGGGUCUGUAUAGUUAUCAGAUUUUCUGUGCGAUGGCUCCAUACAUG |
| co3_8801777_x24 | CM000675.2/21139957-21139886 | 39 | ###### | 38.2 | 24 | ACTCCATGATGAACCCAAAATGCCAAGTATATGACTGAACTTACAAGTGATACCATCTTACGACTGAAGAGT |
| co3_8808853_x23 | ENST00000505219.1 | 27 | 2E-10 | 54 | 23 | GGGCATACTCGTAGACCTTGCCTGACTGTGCTCATGTCCAGGCAGGGGGGACAGTGTATG |
| co3_8812372_x23 | ENST00000626886.1 | 40 | 7E-18 | 79.8 | 23 | GCTGTCCTGGACCTGTTGGCACCACAGACAGTTGCTCTGCTGTGCCTGTGGCCTCGGGGC |
| co3_8820077_x23 | AC013416.4/55441-55577 | 21 | ###### | 42.1 | 23 | UGCAGUCAAGUCAAAUUCAGUGCCCGUUUCUGUCAUAGCGGGGGCUGGCCCAGAUGGCUGCCACAGCAAGCUCCACAGCUCAUGGGCCCUGGGUCACCUACCCUGGGACCUGGGGAUAAGUUUGGCUGUGGACAGUG |
| co3_8821411_x23 | ENST00000426867.1 | 35 | 5E-15 | 69.9 | 23 | TCTCAGTGATGTAATTCCAATAGATCCTTCTGACCCTCCACTGTGGACTCAATAGCAGGG |
| co3_8824999_x23 | ENST00000408587.1 | 38 | 1E-16 | 75.8 | 23 | CAGCCTGAAGTGATGATTCACATTCATGTCTCTTCTCTGATAAATTCTTGAAGAAAATTT |
| co3_8830980_x22 | CM000669.2/140375666-140375563 | 19 | 0.004 | 30.2 | 22 | ATTCTTTCGTAGTTCGTAAGCTGGATTATTGAGTATTCACACACGTGTGTGAGATGTGCCACCCTTGAACCTTGTTACAACGTGGGCACATTATTCACTTGACA |
| co3_8833620_x22 | ENST00000384342.2 | 23 | 4E-08 | 46.1 | 22 | CCCTTGGCCCTTATCGAAGCTGCAGCTGCTTCCGCATAGCTGCTGTGGTCAAAAAGGAGC |
| co3_8834038_x22 | ENST00000408813.1 | 29 | 2E-11 | 58 | 22 | TGGCCAAGGATGAGAACTCTAATCTGATTTTATGTGCTTCTGCTGTGATGGATTAAAGGA |

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|---|---|---|---|---|---|---|
| co3_8835842_x22 | CM000677.2/66502910-66502812 | 29 | 2E-11 | 58 | 22 | TGCAATGATGTCGTAATTTGCGTCTTACTCTGTTCTCAGCGACAGTTGCCTGCTGTCAGTAAGCTGGTACAGAAGGTTGACGAAAATTCTTACTGAGCA |
| co3_8843938_x22 | ENST00000515969.1 | 20 | 0.001 | 32.2 | 22 | TTCAAAAAAGACCATATATCCTTGAAGAGTAACTGCTGAACTTATTCACTGGCAGTGGGC |
| co3_8847392_x22 | CM000673.2/75404421-75404566 | 21 | ###### | 42.1 | 22 | CTTCAGTGATGACACGATGACGAGTCAGAAAGGTCACGTCCTGCTCTTGGTCCTTGTCAGTGCCATGTTCTGTGGTGCTGTGCACGAGTTCCTTTGGCAGAAGTGTCCTATTTATTGATCGATTTAGAGGCATTTGTCTGAGAAGG |
| co3_8849724_x22 | AB028893.1/4087-4152 | 21 | 5E-07 | 42.1 | 22 | CGUCCAUGAUGUUCCGCAACUACCUACAUUGUUUGAUCCUCAUGAAAGCAGCACUGGCUGAGACGC |
| co3_8859839_x21 | ENST00000459623.1 | 16 | 0.001 | 32.2 | 21 | TTTTGGTTGAAATATGATGAGTGTACAAAATCTTGATTTAAGTGAATGAAAAATTACAAG |
| co3_8863787_x21 | ENST00000386307.1 | 47 | ###### | 54 | 21 | GCTGGTGTAAATGATGACTTCACTTTTTTCCCCATCAGATCGACAATGCTGACGTCTTAT |
| co3_8880268_x20 | CM000663.2/51724896-51724775 | 22 | 0.009 | 28.2 | 20 | GTGCCCTTTTAAGGTTGACGCAGTGCTTTAAGGGGCTAACACAGAAGGGTAAAGGAAGTCTCCATAAACCCCAGAGAAGAGATTGTAAAGCTCCTCTTTAGAACCTTTCTGGAGTCACACCT |
| co3_8880648_x20 | ENST00000384360.1 | 25 | 3E-09 | 50.1 | 20 | GACCTCCTGGGATCGCATCTGGAGACTGCCTAGTATTCTGCCAGCTTCGGAAAGGGAGGG |
| co3_8882288_x20 | ENST00000388090.1 | 23 | 4E-08 | 46.1 | 20 | TGCACTTATGTATGTTTTTGTTTAACGTGGACAAAGACTTACAGATAGGTGCAAAAAATA |

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| co3_8890208_x20 | ENST00000391002.1 | 33 | 3E-11 | 58 | 20 | GCCTTTGCAGCTGATGATACAGCTTCTTTCCCCATCAGATCGACCCTGTTGATCTCTACA |
| co3_8893428_x20 | ENST00000384550.1 | 23 | 4E-08 | 46.1 | 20 | TGGATATGATGACTGATTACCTGAGAAATAATTGATGAAATCTCAAGAAAATTCCTCTAG |
| co3_8903557_x19 | ENST00000386910.1 | 16 | 0.001 | 32.2 | 19 | CCCCTATCTCTCATGATGAACACATATGCCTCTGAGCTGCTGTGATTTCTGGCTTCAAAG |
| co3_8907376_x19 | ENST00000384772.1 | 18 | 5E-05 | 36.2 | 19 | TGGTTGTTACCAAGGCATTTAGCATGCAATTTCTCATTTGCTGTGGACACGACGAGAAGA |
| co3_8913057_x19 | CM000667.2/139278781-139278978 | 37 | 4E-16 | 73.8 | 19 | TCCAGCGGTTGTCAGCTATCCAGGCTCATGTGGTGCCTGTGATGGTGTTACACTGTTGGAAGAGCAAACACTGTCTTTATTGAGGTTTGGCTCCAAGCACTGTTTTGGTGTTGTAGCTGAGTACCTTTGGGCAGTGTTTTGCACCTCTGAGAGTGGAATGACTCCTGTGGAGTTGATCCTAGTCTGGGTGCAAACAAT |
| co3_8923041_x18 | ENST00000385573.1 | 14 | ###### | 28.2 | 18 | TGCACTTATGTATGTTTTTGTTTAACTTGTGGACAAAGACTTATGGATAGGTGCAAAAAA |
| co3_8923599_x18 | U43901.2/4011-4161 | 21 | ###### | 42.1 | 18 | GCUGCACACUAUUAAAGCUCAGGGUGGAGGCCAGUCUUGGCUCAUGAACUUCUGAGUGUCGGAAGUGUGCUAUAUCAAUGGCAGGAUUUUCGCUAACACCAGUAGAGCUUGCCUCUAUGACUGGAGUUUGGUAGUACUCGCUGCCACAUAG |
| co3_8930241_x18 | CM000669.2/152595923-152596030 | 31 | 1E-07 | 46.1 | 18 | AGGCCCCTGTAGTTCCCGAGCACGATGACTGGGTGTTCACGTGCACGTGTGGGATGTGCCACCCTCTGAACCTTGTTACGATGTTGGCACATTACCCTGGACCTGACC |
| co3_8937585_x18 | ENST00000637869.1 | 15 | 0.003 | 30.2 | 18 | TTTATTATTATTGTTGTTGTTATTTTGAGTAGGACTCTCACTGTGTTGGCCAGGCTGGAG |

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| co3_8943975_x18 | AF250841.1/2261-2352 | 33 | 8E-14 | 65.9 | 18 | GGAUCGAUGAUGACUUCCAUAUGUACAUUCCUUGGAAAGCUGAACAAAAUGAGUGAAAACUCUAUACCGUCAUCCUCGUCGAACUGAGGUCC |
| co3_8947593_x18 | ENST00000364578.1 | 22 | 1E-07 | 44.1 | 18 | AAGCAGGATTCAGACTACAATATAGCTGTTAAGTGCTGTATTGTCATTCCCCCTGCTCAA |
| co3_8950407_x17 | ENST00000364460.1 | 37 | ###### | 65.9 | 17 | TGGATTGGTGATGAGCAACAATCACCATCTTTCGTTTGAGTCTCATGGCCATGAGACCAA |
| co3_8952124_x17 | AJ609485.1/1-127 | 22 | ###### | 44.1 | 17 | CUGGAGACUAAGAAAAUAGAGUCCUUGAAAUCAAGCUGACUCUGCUUUUAGCCUCCUAAAUGAAAAGGUAGAUAGAACAGGUCUUGUUUGCAAAAUAAAUUCAAGACCUACUUAUCUACCAACAGCA |
| co3_8960777_x17 | ENST00000459174.1 | 43 | 1E-19 | 85.7 | 17 | GGTGCAGATGATGACACTGTAAAGCGACCAAAGTCTGAACAAAGTGATTGGTACCTCGTT |
| co3_8964313_x17 | ENST00000386747.1 | 20 | 5E-06 | 40.1 | 17 | GCTGTTCGTTGATGAGGCTCAGAGTGAGCGCTGGGTACAGCGCCCGAATCGGACAGTGTA |
| co3_8965945_x17 | CM000682.2/38449370-38449503 | 32 | 0.001 | 32.2 | 17 | ACCTGCATTCAAAAATGATCACGGGCTGCCTGTGCTCTGGTCATCAATAACGCAGGGAGAGGAATTGCTGAAAGCCGTTTCCCGTGTTTGGAGGGTTCACACCTGTCCCTTTCAAATGCTGGCGCTTTCACACA |
| co3_8970892_x17 | ENST00000362803.1 | 44 | 3E-20 | 87.7 | 17 | TGCAATGATGTCGTAATTTGCGTCTTACTCTGTTCTCAGCGACAGTTGCCTGCTGTCAGT |
| co3_8971844_x17 | ENST00000384334.1 | 18 | 3E-05 | 36.2 | 17 | GCATGGCTGAATACTGTGTTCTTTTATCAGTAGTTTACACAGCCAGACACCATGCAAAAG |
| co3_8974038_x16 | CM000673.2/117263799-117263952 | 14 | 0.009 | 28.2 | 16 | TTGTCCTGGCCTATGCTTTTTCTACTCCCCTCTGCTTTTTTGGTCCCCCTGTGCTCAGTTCTAACAAGGTAGTCTGGCAGGACACACAGCAGTCTCCTTCAGTTTAGGAGGACTGTCTTTAGAATAGAGCTGTCCCAAGGCACAAGATTACAAT |

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| co3_8977238_x16 | ENST00000384762.1 | 23 | ###### | 46.1 | 16 | AGCACTATATTTAAACCTGTGGATGGGAATATTCCCCATTCTTGGTTACGCTGTAGTGCA |
| co3_8987286_x16 | ENST00000386157.1 | 24 | 1E-08 | 48.1 | 16 | CTTCCTCAGCCTTACTCCAGGGACTTTTTGTTGCCTGTAAAGTGCTCTGGCATTGCCTGA |
| co3_8988150_x16 | ENST00000384250.1 | 16 | 0.0006 | 32.2 | 16 | TGCATTGCCATGGTATCTGCACTCAGTAGTTTATTCCTGCTGGGTGTCCAAAGATCAGTG |
| co3_8988742_x16 | ENST00000408189.1 | 18 | 0.0001 | 36.2 | 16 | TTGCAGTGATGACTTGCGAATCAAATCTGTCAATCCCCTGAGTGCAATCACTGATGTCTC |
| co3_8989670_x16 | ENST00000516733.1 | 17 | ###### | 34.2 | 16 | TGCCAATGATGGTTAAGAATTTCTTCACCTGAATAAACCATGTGGTCAGCATTGCATCTG |
| co3_8991174_x16 | AJ609473.1/1-130 | 38 | 1E-16 | 75.8 | 16 | AAGCCAGCCAAUGAAUCUGCUUACCUGAUUGUGUUUGUGCAGACAUACUUUAAAAACUGGCAAUAGUAAAGCCAUGUUACGAGCCUUAAGGACAUUGAAGUCGUUAAGGUCCCUGAGAAUGGCUAUAACA |
| co3_8994646_x16 | ENST00000364432.1 | 20 | 2E-06 | 40.1 | 16 | CCCGCCACTGCACCTGACCAGGTCTCTGTTGGCTGGTGCAATCCAGTGGTGAGCTGATAG |
| co3_9003123_x15 | CM000666.2/159507029-159506894 | 14 | 0.009 | 28.2 | 15 | GCGAGGAGGAGGCACAGGGTTCTCCCCTGAGAGCCAGGCCAGCTCTTAGTGTTGCTTCGCTGCAGGTGCCATTTGGCATTGAGGATTGTTTTTCTCTTCCTCCGGCAAAGTAAGAGGGAGAGGACACAGTCTGAGT |
| co3_9006048_x15 | ENST00000364043.1 | 27 | 2E-10 | 54 | 15 | AAGTAGGGTGATGAAAAAGAATCCTTAGGCGTGGTTGTGGCCGTCTTGGTCACCTGTGTG |
| co3_9009108_x15 | CM000685.2/150902121-150902235 | 40 | 0.001 | 32.2 | 15 | AAGACTATACTTTCAGGAATTGTTTCTGTAGTACATTACTAGAGAATGTCCTCTGAATGTGCAGAGCACAGAAAAATACAAAATAATAATAAATTCCAAATCAGCTATCTGAGTA |

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| co3_9011898_x15 | ENST00000363389.1 | 27 | ###### | 54 | 15 | GGCAGATGATGTCCTTATCTCACGATGGTCTGCGGATGTCCCTGTGGGAATGGCGACAAT |
| co3_9017013_x15 | ENST00000362541.1 | 21 | 5E-07 | 42.1 | 15 | TCTTAGTGACATAATTCTAATAGTTTGTTCCGACCTTCCACTGTGGACTCAATAGCAGGG |
| co3_9024888_x15 | AJ609477.1/1-132 | 30 | 4E-12 | 60 | 15 | GGCCUCCUGGUGCUUACCACAGGCUGUGUUCUUACACUGACUGUAUAGAAAGAGGAGGUAGAGUAAACCUACCCCAUAUACACCUCAGCUCAGGCCCUGUGCCUGGUCUGUAUUGUGAAUGGGGGAACAUAG |
| co3_9029223_x15 | AL132709.5/155570-155499 | 34 | ###### | 67.9 | 15 | UGGAUCGAUGAUGACUGCUGGUGGCGUAUGAGUCUUACAUGAUGAAUACGUGUCUGGAACUCUGAGGUCCAU |
| co3_9030228_x15 | ENST00000386037.1 | 25 | ###### | 50.1 | 15 | CAGGCTGTGATGATTGGCGCAGGGGTACGGACCTCAGCTGAGTCATGGGAGCTGAATGTA |
| co3_9030808_x14 | ENST00000384714.1 | 21 | 5E-07 | 42.1 | 14 | CTTCAGTGATGACACGATGACGAGTCAGAAAGGTCACGTCCTGCTCTTGGTCCTTGTCAG |
| co3_9031676_x14 | ENST00000516190.1 | 14 | ###### | 28.2 | 14 | TTGCGTCTATTTGACAGACTAGAATAATTACTATCTGCTGCTAAGGTTTCCCCTGCAGAT |
| co3_9035638_x14 | AL132709.5/178148-178075 | 27 | 2E-10 | 54 | 14 | UGGACCAAUGAUGAGAUUGGAGGGUGUCUGAAUCAAAAAUUUUGAUUAAAGCCAUCUGUAACUCUGAGGUCCAU |
| co3_9040342_x14 | CM000684.2/37785526-37785633 | 16 | 0.0005 | 32.2 | 14 | ATCCTTTTGTCGTTCATAAGCATGACGATTGGGCTTTCATGCTCATGCATGAGATGGGCCTCCCTTCAGTCTTGTTACAGGCCGGCTCTGTGGCTCATGCCTGTAATC |
| co3_9042960_x14 | ENST00000411292.1 | 16 | 0.001 | 32.2 | 14 | TGTGTGTTGGAGGATGAAAGTACGGAGTGATCCATCGGCTAAGTGTCTTGTCACAATGCT |

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| co3_9043394_x14 | CM000663.2/173865686-173865622 | 21 | ###### | 42.1 | 14 | GTGTAATGATGTTGATCAAATGTCTGACCTGAAATGAGCATGTAGACAAAGGTAACACTGAAGAA |
| co3_9047902_x14 | ENST00000516327.1 | 14 | 0.008 | 28.2 | 14 | AGTTACTGTCTGCTGCTAATGTTTCCACTACAGATACAAGAAAAAGTCTCTTCACACTTT |
| co3_9049134_x14 | ENST00000384033.1 | 20 | 2E-06 | 40.1 | 14 | GCTGCACACTATTAAAGCTCAGGGTGGAGGCCAGTCTTGGCTCATGAACTTCTGAGTGTC |
| co3_9053362_x14 | AJ243199.1/1-78 | 22 | 1E-07 | 44.1 | 14 | GCCAUAUGAUGUUUUCUUUUCGAAAGGUGAGCGCUUUGCGCAGUGAUGACCCUCAUCUAUCACCCUUGACUGAUGGCU |
| co3_9057044_x14 | ENST00000363181.1 | 32 | 2E-08 | 48.1 | 14 | GGTCAATGATGAGCTGACATGTATTCTGAATCTAAAGTTGATTATTAGTACTTTAGTTCT |
| co3_9057590_x14 | ENST00000391316.1 | 23 | 0.003 | 30.2 | 14 | TTCTTACAAATCTAAATGTGCTTTGATGCAAGTATATTTGAATCCCTTTCCATCTGATAA |
| co3_9057954_x14 | ENST00000365473.1 | 17 | ###### | 34.2 | 14 | TAGGCCCTGAATCAAGAAACGTGATGGTTTGCCATTGTAGCTATTGGTTTCAAACAAGAG |
| co3_9062028_x13 | ENST00000364089.1 | 30 | 4E-12 | 60 | 13 | TCCAGCGGTTGTCAGCTATCCAGGCTCATGTGGTGCCTGTGATGGTGTTACACTGTTGGA |
| co3_9063913_x13 | BL000002.1/98018519-98018714 | 28 | 6E-11 | 56 | 13 | AGAGAAGCAAAGUGAUGAGUAAUACUGGCUGGAGCCCCAAAGAGGCACGUGUGUGUGUUUGUGUGUGUGUGUAUAUGCUUGUCAGUGCAUGCACGUGUAUGUCUGGGAGUACAAAUGGGUGCGACUGGUUGUAGGGAACUAGCUAUGUGCCUUCUAUUAGGCCAUGACAGUCAAACUGAUAAGAUCUGAUUGCUUC |
| co3_9065330_x13 | CM000668.2/38822401-38822307 | 33 | ###### | 58 | 13 | TCTGCTGGGGTGTTTAAAGGTCAGCGCTGTAGATATTCAGCATCTGGCATCTTGGCTTCCTGCTTGTTAAACCTGGTATTTTTACTGATACAGTA |

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|---|---|---|---|---|---|---|
| co3_9079695_x13 | ENST00000391141.1 | 23 | 4E-08 | 46.1 | 13 | AACATGCTTCCTTAGATCCACCTTTGTGGATGAATCTTGAACTGAGTTCCACTTGTAAAC |
| co3_9085935_x13 | ENST00000365128.1 | 14 | 0.008 | 28.2 | 13 | GCTGTAATGTGTGCATAGGTTTCATCTGTGTCTGGTAGCAGTGTCTGTCTGTGTTTTTCA |
| co3_9087625_x13 | AC064836.7/31785-31868 | 24 | 1E-08 | 48.1 | 13 | GUGUUCAAUGAUGAUUUCUAUUUGUUUGCCUGAUUUCCUUUUGGAUAAUGAAGGCAUCUUUAGUCACUACCUCUUCUGAGACAC |
| co3_9091616_x13 | ENST00000364849.1 | 24 | 1E-08 | 48.1 | 13 | GCTGGCACAATGATGACTTAAATTACTTTTTGCCGTTTACCCAGCTGAGGTTGTCTTTGA |
| co3_9095366_x12 | AC093462.11/145947-146075 | 43 | 1E-19 | 85.7 | 12 | UGAGCACUUUCACAGGUCCUCCCUCAGGCUGUGGGGCCAGGAUUUGGUAGCUGGUGCUGAGAGAAAACCUUUGUUGGCAUCCUUGCCCUGGGACUGUGCCAGUGGCAGCUGUCAUUCAAUGGGACAAUU |
| co3_9098498_x12 | ENST00000364722.1 | 29 | 2E-11 | 58 | 12 | GATCAATGATGAAACTAGCCAAATCTGAGCATCAGAAGGCTTTCCGGTCTACCTGATGCA |
| co3_9100838_x12 | ENST00000390968.1 | 23 | ###### | 30.2 | 12 | GTTCATGATAAGTAACATTTCTTCAATTTGACCTGATGTGTATTGAAGAAAACCAGCATC |
| co3_9101006_x12 | CM000663.2/163923670-163923873 | 20 | ###### | 32.2 | 12 | AAGACTATTCTTTCAGGGATCATTATGCGAGAAGTTTTTCTGAATGCCTAAAGAACCAGAAAACCATGAGGACAGACAGCAGCATTTTCTCCTGAGCTTGAAGCTGGCTCTTGGCACTGGTTTGCTGCAACTGCCGTTTGCCATTGCTGATCATTTTTCTCTTCCTTTGGGAGAGTGAGGGGAAGAGAATGCAATCTGAGTGAT |
| co3_9103046_x12 | ENST00000365074.1 | 23 | 0.004 | 30.2 | 12 | CTGCAGATATTCTCACTGTTTTGATTTTGTAATAGTCAGGACAGGCTAACCATTCACTTT |
| co3_9108530_x12 | AC064836.7/30066-30155 | 18 | 0.009 | 28.2 | 12 | UGAUGGCAAUGAUGAUUUUUACACUUAUUGUUGUUCACCUGAUAACAUAAAUAUGAGGGUGUUCAGUCACUACCUCAUCUGAUGCCAUCA |
| co3_9112658_x12 | ENST00000459155.1 | 24 | 1E-08 | 48.1 | 12 | CAGGCTGATGAGACTAAGGCGAATGCGACTCCGTGCTCTCTGGCCCTTGGCTCCTTGTTG |

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| co3_9113438_x12 | CM000676.2/63479272-63479413 | 14 | 0.009 | 28.2 | 12 | GGCCTCTCTCCCATGGTGCTGTGGGTGGGGGAGGAGGGGTGCTTTTCTCCTCAGCGAAGACTGGAGGCAGACATCACCCCTCAAGGATCATCCTCAGAACTGCCACGTGCTGGACAGCCTTGTTTTTCTACCTCACACATTT |
| co3_9115394_x12 | ENST00000516429.1 | 14 | 0.008 | 28.2 | 12 | TTGCTCTGGGGATGCAAAAGAGGGAAATCCCTGCACTTCCTCTCTGTCTTTGTGGCAGCC |
| co3_9115838_x12 | AC090227.10/15359-15277 | 20 | 2E-06 | 40.1 | 12 | UGGCCGAUGAUGACGAGACCACUGCGCAAUCUGAGUUCUGGGAACCAGGUGAUGGAGUAUGUUCUGAGAACAGACUGAGGCCG |
| co3_9116030_x12 | CM000681.2/49949527-49949316 | 15 | 0.008 | 30.2 | 12 | AAGATGACACTTTGAGGCATCGTGTCTATGGTTCATTACTACAGAAGCTTCTCTGGATGTGTAAAGCACAGGAAACCAGGCAGAGGAGGCACAGGGTGCTCTCCAGAACGAGAAGCCAGCTCCTGGAGTTGTTTGCTGCAACTGCCATTCCCCGTTGATGACCATGCTCTTCCTTCAGAAGAGGGAGAGTGAGAGGACCAAGTCCAAGTGGT |
| co3_9120134_x12 | CM000666.2/67747236-67747386 | 35 | 2E-05 | 38.2 | 12 | ATTTCATGTTTTAAAGGCATAATGATGTCACTGACTGGCTGATGAAATCCCAAGCGTAGGTAGTATGCTACATGAGGGGTGAGTTTTTTGCTAACACCACAAAGGTCTCTGGCCCAATGAGTGGAGTTTGATAGGAGTTCTTGTGACAAGT |
| co3_9124658_x12 | CM000685.2/115545637-115545717 | 26 | 5E-05 | 36.2 | 12 | AGGGGTGGTCTCCTCCCTTACTCTTTGGGAACTCAGATTGGCCTTATGGTGGCCTCTCTTTCCTTGAGGGGCACAACAGGT |

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| co3_9124898_x12 | AJ224023.1/1-67 | 32 | ###### | 63.9 | 12 | GUGCAUAUGAUGGAAAAGUUUUAAUCUCCUGACACUUGUGAUGUCUUCAAAGGAACCACUGAUGCAC |
| co3_9134557_x11 | ENST00000459577.1 | 44 | 3E-20 | 87.7 | 11 | TGGTCTCAAGGAAGGGATGATGTTCCAGTTGAGACTCAAGAAAAGGATTCTGAGCCTCAG |
| co3_9137021_x11 | CM000666.2/54147264-54147461 | 22 | 0.009 | 28.2 | 11 | AAGACTCTACTTCCAGGTATAATTTCTATGGTTTATTACTGGAAAAGTTTCTCTAAATATGTGGATCGCTGGAAATAAGAGGAAGCACAGGGTTCTCCGAGTGAAGCTGGCTTTTGGAATTACTTGGCTGCAACTGTCATTTGCTACTTTAAGATTTTACTTATTGATTTTTTTTTTTGAGACAGAGTCTCACTCTGT |
| co3_9137285_x11 | AL132709.5/146793-146719 | 21 | ###### | 34.2 | 11 | UGGACCAAUGAUGACAAAUGGUGGCAUUGGAGUUAUGGACGAUGAAUGAUAUGUGUCUGAAACUCUGAGGUCCAA |
| co3_9137505_x11 | ENST00000459255.1 | 32 | 3E-13 | 63.9 | 11 | GCCACATGATGATATCAAGGCTGTTGTGATTCAGTTGGTTTGGCTAAGCCCAGGGACCTT |
| co3_9137582_x11 | ENST00000365405.1 | 22 | 0.0001 | 36.2 | 11 | ATTGTTACATTGATAAAATCAAATCACCATCTTTTAGCTAAGCTTGTGCTGGATTTGCTT |
| co3_9141520_x11 | ENST00000459229.1 | 20 | 2E-06 | 40.1 | 11 | GCCCTGTGGTTGCTGGATGCTGTTGTGCATGGACAGCTCTCCAGTGGATTCGATGGGCCA |

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| co3_9142312_x11 | CM000671.2/87260450-87260585 | 43 | 0.007 | 30.2 | 11 | GTGCCCTTTTAAGGTAGACGCAGTTTCGTAAGAGGCTAACACATAAGGGTAAATTAAAGTAAGTCTCCATAAAACCCAGAGAAGAGACAGAAGAGACTGTGAAACTCCTCTTTGGACCCCATCTGGAGCCACAGCA |
| co3_9143291_x11 | ENST00000384323.1 | 45 | 8E-21 | 89.7 | 11 | TACCCCCTTTTCACTTTGCCAGTTGGACTTATGTCTTTATTGGTCATTCAAGTGGGGCAA |
| co3_9150980_x11 | ENST00000384049.1 | 25 | 6E-09 | 50.1 | 11 | TGGTAATTACCAAGATTTTTAGAATGCAGTTTCTCATTTGCCAGGGAAATGACCATAAAA |
| co3_9152289_x11 | CM000664.2/231455936-231455800 | 26 | ###### | 52 | 11 | GTCTTCTCATTGAGCTCCTTTCTGTCTATCAGTGGCAGTTTATGGATTCGCACGAGAAGAAGAGAGAATTCACAGAACTAGCATTATTTTACCTTCTGTCTTTACAGAGGTATATTTAGCTGTATTGTGAGACATTC |
| co3_9153070_x11 | AK123993.1/1023-1100 | 29 | 2E-11 | 58 | 11 | CUGAGCUGAGGAUGAUUUAAAGUUAUCCCUGUCUGAAAUGGUAUCUUUUGUGAGGAGGUCUGACUUGCUGAGGCUCAG |
| co3_9155083_x11 | ENST00000391061.1 | 19 | 1E-05 | 38.2 | 11 | TGCGTGACATGTATGTTTTTGTTTAACTTGTATACAAAGGCTTATGGATAGGTGCAAAAA |
| co3_9156491_x11 | ENST00000364375.1 | 32 | 2E-08 | 48.1 | 11 | AGGTTATTTCAAAGAGGGCTCATGAGGCTATGAAACCAAGAACTCTTAATGCTATGACCA |
| co3_9160836_x11 | ENST00000365028.1 | 28 | 1E-08 | 48.1 | 11 | TTTAGAATGTCAAAATTGATTTTGTAATAGTCAGGACAGGATAAACAGTCGCTATATTAA |

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| co3_9162243_x10 | AC132192.3/71954-71776 | 23 | ###### | 46.1 | 10 | GUAAUGUGUGCAUAGGUUUCAUCUGUGUCUGGUAGCAGUGUCUGUCUGUGUUUUUCAUUCAGAUCUUGCUAUCCACACAAACAUCAUGCGGCCAAAGAGUAACUUGGGAUCAUAGUACUGGUCUAGUGUUGUCUCUGGACACAUCUACCACUGGCCAGCCUCCAAAUUCCCACACACAG |
| co3_9164963_x10 | ENST00000609620.2 | 23 | 1E-07 | 46.1 | 10 | TAGAGAAGTCAATGATGGTTTTATTCATATCGTCTGAACCTGTCTGAAGCATCTCAGTGA |
| co3_9166233_x10 | ENST00000364121.1 | 16 | 0.002 | 32.2 | 10 | AGGTCATTTCAAAGAGGCTGCAAAACCAAGAGCTCTTAACGCTGTGAGCAAAGATGGAAG |
| co3_9167533_x10 | ENST00000408175.1 | 44 | 3E-20 | 87.7 | 10 | GGGGTGTGCTCAGAGCAGGGGGCCCGAAGAATGCCTCCTCTGTTTACAACACACCCAATA |
| co3_9168053_x10 | ENST00000363485.1 | 31 | 0.004 | 30.2 | 10 | TTATGAATATACTCACCGTTTTGATTTTATAATAGTAACGACAAGCTAAACATTCACTAT |
| co3_9168683_x10 | CM000671.2/33934376-33934296 | 28 | ###### | 56 | 10 | CTGGAAAAGACAATGATGTTTTATTTCCAAGCACATATCTGAGTTGTATGTGTGGACAGCACTGAGACTGAGTCTTTCCAC |
| co3_9173043_x10 | ENST00000458790.1 | 21 | 5E-07 | 42.1 | 10 | AGCCTTTGTGTTGCCCATTCACTTTGGAAACTAGTGAATGTGGTGTCAAAAAAGGCGTAA |
| co3_9173573_x10 | ENST00000364597.1 | 23 | 0.003 | 30.2 | 10 | GGCGGCCCTTATCACAGCTGCAGCTGCTTCCACATAGCTGCTGCGGTCAAAAAGGAGCCC |

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| co3_9184223_x10 | ENST00000515926.1 | 24 | ###### | 32.2 | 10 | AAAATATATTTTAGTTTGTGGGCTGGGAAACCAAGAGCTCTTAATGCTATACCCAAAGAC |
| co3_9189173_x10 | CM000663.2/15542165-15542304 | 14 | 0.009 | 28.2 | 10 | TGGCTCGGTTTCCTGGGGGGTGGGCTCAGTCTACACCACCTCCCCTCAGCCAAGCCTACAGTAGAGGGCCCAGGCATCCTCCCGTATGGGAGAGGCGTTTGAGTAAGGAGCCTCACCTGGGGTGTCCTAGCCTCACATTT |
| co3_9191123_x10 | ENST00000386062.1 | 20 | 2E-06 | 40.1 | 10 | AATAAGTGATGAAAAAAGTTTCGGTCCCAGATGATGGCCAGTGATAACAACATTTTTCTG |
| co3_9196843_x10 | ENST00000384289.1 | 23 | 4E-08 | 46.1 | 10 | TTCCAAAGTGTTGAGTTCAGTCCAGGGCAGCTTCCCTGTTCTGTTAATTAAACTTTGGGA |
| co3_9197403_x10 | ENST00000364915.1 | 26 | 2E-09 | 52 | 10 | GCCAAATGATGTTTATTTGAAACAGGAGCACCTCAGTGCAAGGACGACTCTTATCTATCA |
| co3_9203940_x9 | ENST00000362396.1 | 21 | 5E-07 | 42.1 | 9 | ACCTGCATTCAAAAATGATCACGGGCTGCCTGTGCTCTGGTCATCAATAACGCAGGGAGA |
| co3_9204480_x9 | CM000664.2/215302766-215302864 | 19 | 0.003 | 30.2 | 9 | ATCCTTTTGCAGTTCATAAGCATGAAGTTTGGGTTTTCACATGCATCTGTGAGAAATACCTTCCTCAAACCCTGTTACAATGGTGGCTCACATCTGTAA |
| co3_9207729_x9 | CM000681.2/17862588-17862720 | 25 | 3E-09 | 50.1 | 9 | ATTGCACCTAAACCCAAGAATCACTGTTTCTTATAGCGGTGGTTTAAACAGAGGTGCAAACAGCAAGCGGATCTTGTCGCCTTTGGGGGGCTGTGGCCGTGCCCCTCAAAGTGAATTTGGAGGTTCCACAACT |

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| co3_9209862_x9 | ENST00000384418.1 | 15 | ###### | 30.2 | 9 | GCCCGCCTTGGCCTCCCAAAGTGCTGGGATTCTTACATCGACTGCATAGAAAGAGGAGAG |
| co3_9210933_x9 | ENST00000365032.1 | 15 | 0.003 | 30.2 | 9 | GCCTGCATTCGTAAGTGATCACGGGCTGCCCGTGTCCTGGTCATTGGTAGTGCAGGCAGA |
| co3_9216126_x9 | ENST00000384437.1 | 27 | 2E-10 | 54 | 9 | ATTGCACCTAAACCCAAGAATCACTGTTTCTTATAGCGGTGGTTTAAACAGAGGTGCAAA |
| co3_9218727_x9 | ENST00000363664.1 | 30 | 4E-12 | 60 | 9 | AAGCCAGCCAATGAATCTGCTTACCTGATTGTGTTTGTGCAGACATACTTTAAAAACTGG |
| co3_9220014_x9 | ENST00000362423.1 | 23 | ###### | 46.1 | 9 | CCCCTTTTAAAAGCACTCAATGGGCCTGTGGCTAATGACCTATTGAGCCGTCAAGAAAGG |
| co3_9223803_x9 | AC064836.7/16842-16926 | 36 | 1E-15 | 71.9 | 9 | UUCAAUGUUGUCAAUGAUGCAUUCUUAUUGGAACUGAAUUUAAGUGAUCUGACUCAUUCGUCACUACCACUGAGACAACAUUGAG |
| co3_9226413_x9 | CM000677.2/46351745-46351662 | 28 | 0.0008 | 32.2 | 9 | TGATTCAACTATGATTTTTATTTGTTTGACTGATTTCCTTTTGGATAATGAAGGTATCTTTAGTCACCATATCTTCTGAGACAT |
| co3_9227016_x9 | CM000675.2/72460628-72460519 | 18 | 5E-05 | 36.2 | 9 | CAGTCACCATTGTTTGTCAATTATTTCTTCACAATGTCTATTGAAGGATCTCATCACCTTTAGAGAGCTGTGGTCATGCCCCTTAAAGTGAATTTGGAGGTTTTATACCC |
| co3_9231264_x9 | ENST00000391076.1 | 14 | 0.009 | 28.2 | 9 | ATGTAATAATGTTCATCAAATGTCTGACCTGAAATGAGCATGTAGACAAGTTAATTTAAC |

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| co3_9233658_x9 | ENST00000364359.1 | 27 | 0.006 | 30.2 | 9 | AGGTTGGATTCATTGTTACAATATAGCTGTGAAGTGCTATGTTGTCCTTGCCCCCTGCTC |
| co3_9236646_x9 | ENST00000363946.1 | 22 | 1E-07 | 44.1 | 9 | TCCTCCTACAAAGGCGTGTCTGTGGTTCCCTGTCTTTGGACACGTAAGAATTGGAGGAAA |
| co3_9245202_x8 | AL132709.5/175950-175879 | 27 | 5E-08 | 46.1 | 8 | UGGAUCAAUGAUGAGUACCCUGGGGUGUCUGAAUCUUGGAUUUUGAUUAAACCCUAUAACUCUGAGGUCCAU |
| co3_9251626_x8 | ENST00000413522.1 | 24 | 2E-08 | 48.1 | 8 | CCACAATGATGGCAATATTTTTCGTCAACAGCAGTTCACCTAGTGAGTGTTGAGACTCTG |
| co3_9255754_x8 | ENST00000384390.1 | 30 | 4E-12 | 60 | 8 | TCGCTATGATGATGGATTCCAAAACCATTCGTAGTTTCCACCAGAAAGTCTTATGTTGGC |
| co3_9256562_x8 | ENST00000390832.1 | 20 | 5E-06 | 40.1 | 8 | TACACTTGTTTATATTTTTGTTTAACTTGTGGACAAAGATTTATAGACAGGTGCAAAAAA |
| co3_9259138_x8 | ENST00000459386.1 | 28 | 3E-08 | 48.1 | 8 | GTCCAGAAAACAATGATGTGGTAATTTCCAAGCACATATCTGATGATTCCATGTGGAATT |
| co3_9262202_x8 | ENST00000408113.2 | 20 | 2E-06 | 40.1 | 8 | AAGACTATACTTTCAGGGATCATTTATATGATTTGTGGCTACAGAAGTTTCTCAGCGTGA |
| co3_9265122_x8 | ENST00000384416.1 | 23 | ###### | 46.1 | 8 | GTTGAGGTCTATCCCGATGGGGCTTTTCCTGTAGCCTGCACATCGTTGGAAACGCCTCAT |
| co3_9272914_x8 | ENST00000384170.1 | 27 | 2E-10 | 54 | 8 | TAGCAAGCCTCCAGCGTGCTTGGGTCTGCAGTGACCCCGTGGATTCCTACAGGGCTTGCC |
| co3_9275218_x8 | ENST00000364968.1 | 24 | 1E-08 | 48.1 | 8 | ACAAGCCTATGATGGTTAGTTATCCCTGTCTGAAAATCTGGACTGAGGGAAATAATCTAT |

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| co3_9275418_x8 | CM000672.2/100237302-100237156 | 33 | ###### | 65.9 | 8 | AGTTGTGGTGGTTTTCTTTTTGGCACATTTGTTAAGTTTTCAAATGGGCCTAACTCTGCCACATATATAATATCGGAGATGGCAAAGGCTTGTGACGGAGATATCTCTCTTAAGCCTTTCCTGCATCAGAGAATGGCTCCCACATGT |
| co3_9276242_x8 | ENST00000365633.1 | 14 | 0.009 | 28.2 | 8 | TGGCGTCCATGATGTTCCGCAACTACCTACATTGTTTGATCCTCATGAAAGCAGCACTGG |
| co3_9277018_x8 | AL132709.5/185108-185034 | 32 | 0.001 | 32.2 | 8 | UGGACCAAUGAUGAGUACCAUGGGGUAUCUGAAACAGGAUUUUUGAUUAAACCCAUAUGCAAUUCUGAGGUCCAU |
| co3_9281126_x7 | CM000667.2/172252478-172252334 | 17 | ###### | 34.2 | 7 | CCTCGCTTTCTTTGCAGGGAGCAGGTATGTATGTTCCCTATTATGTCTGGAGGCAGAGGGAAAAGGCTTCAGTCCCCTGGGCATCATGTCTTTGGTGCCGCTGGCTTCCTGTCTGCCAATTCTATCCTCAAGCACTGGGACACAG |
| co3_9281616_x7 | AL132709.5/151720-151647 | 14 | 0.008 | 28.2 | 7 | UGGACCAGUGAUGACCACUGGUGGCAUAUGAGUCAUACACAUGAACACCAUGUUUCUAGAACUCUGAGGUCCAA |
| co3_9283954_x7 | BC042667.1/532-663 | 33 | 8E-14 | 65.9 | 7 | ACUGCCCCUAGAGGCGUUGCAGCUGUGGCUGCCGUGUCACAUCUGUGUCAUUAAGUGGCAGAGAUUAGAGAGGCUAUGUCUACGCUCAGCGUUCUGCCCCGUGAACGUUUGAAUGUUUGAUAGUCUCACACU |

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| co3_9284514_x7 | AY349597.1/1-142 | 27 | ###### | 54 | 7 | UUGCCCGAUGAUUAUAAAAAGACGCGUUAUUAAGAGGACUUUAUGCUGGAGUUCUUGACGUUUUUCUCUCUUUUCUAUACUUCUUUUUCUUUCUUUGAAUGUCCAGCGUCCUGUGAGCGAAGAUUAUGAGAUAUGAGGGCAA |
| co3_9285256_x7 | ENST00000365400.1 | 33 | ###### | 65.9 | 7 | TGGACCAATGATGACAAATACCGGCGTATGAGTCTTGGATGATGAATAATACGTGTCTGG |
| co3_9289211_x7 | CM000677.2/25099499-25099594 | 29 | 2E-11 | 58 | 7 | GGATCGATGATGACTATAAAAAAAATGGATCTCATCGGAATCTGAACAAAATGAGTGACCAAATCATTTCTGTGCCACTTCTGTGAGCTGAGGTCC |
| co3_9290947_x7 | ENST00000390947.2 | 15 | ###### | 30.2 | 7 | CCCAAAGTGCTGGGATAACCCTTACCTGTTTCTCCTTTGCAGGGCAGATAGAACATGATA |
| co3_9295329_x7 | ENST00000458892.1 | 24 | 1E-08 | 48.1 | 7 | TGGCAACTGTGATGAAAGATTTGGTCTGTATGTAATAGATTTTATTACTAAATGAGGACA |
| co3_9298612_x7 | ENST00000391075.1 | 27 | 3E-05 | 38.2 | 7 | GTAGGTGACGACCAATATTTTTTTTACTTTGACTTGATGTCTATTGAAGAAATCTAGCAT |
| co3_9304310_x7 | AL132709.5/156819-156747 | 27 | 0.004 | 30.2 | 7 | UUGAUGAUAUGAUGGCCACUGGUGGCUUAUGAGUCUUAUACAGUGAAUACAUGUUUGAAACUCUGAGGUCUGU |

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| co3_9305304_x7 | AC073149.5/38723-38590 | 19 | 0.002 | 30.2 | 7 | UGUUCUGACAUGGGAAGAGUAGCUUCUGGUUGGUGGAGCCCAUCUCACAUUAGCCAGAGACAAAGCAACACCUUGUUUAUCCCGGCUUGGCUUUUGGCCUGUGUCCAUGACUGGUCCAUACCUUGGACACAUGG |
| co3_9316049_x7 | CM000667.2/40790204-40790071 | 23 | 1E-05 | 38.2 | 7 | CCTCCTTTTCTTGTCAGGGACTGAGTGTGTGGTCCTGCTCCTGTTATGTATGGAGGCAAAGGGAAAGGGCTCCGGCCCCCTCAAAATCATGTCTTTGGTGCCAGCCGGTTCTGTTCTCAGTCACCTGGATACTG |
| co3_9316056_x7 | AC012119.8/92875-93023 | 15 | 0.008 | 30.2 | 7 | AUCCAAGGGGAUUCCCUCUCCAAGGGAACAUGCAGUGCCCCUCUCAGGAAAGUAACAACCUGGAAUAGAAUCUGGCAUGCCUAAGGUCUUUGAGGAAUAGAGGAAUAGAGGAUGCUUGUUUCCUCUGCCUUCCUUGGCUGCCUACAUGG |
| co3_9318023_x7 | ENST00000364940.1 | 20 | 2E-06 | 40.1 | 7 | TGGTCAGGTGGAATAATCCTTATCTGTTTCTCCTTTTGAAGGGCAGATTAGAACATGATA |
| co3_9334618_x6 | ENST00000364796.1 | 32 | 7E-06 | 40.1 | 6 | CAGCCTCTGATGAAATTTATCTTGATAGGGACATCTGAAAGTGTTGATGAATGCCAAGGA |
| co3_9335122_x6 | ENST00000383953.1 | 20 | 2E-06 | 40.1 | 6 | GCTGAATGATGATATCCCACTAACTGAGCAGTCAGTAGTTGGTCCTTTGGTTGCATATGA |
| co3_9336022_x6 | ENST00000364446.1 | 40 | 7E-06 | 40.1 | 6 | AATCTCCTGGGATTGTGTCTGGCGAGTGCCCAGTATTCTGCCACCTTCAGAAGGAAGGGA |

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| co3_9336298_x6 | ENST00000390994.1 | 38 | 1E-16 | 75.8 | 6 | AGCTTATCAGTGATGTTGTAAAAATAAATGTCTGAACATATGAATGCAGTATTGATTTCA |
| co3_9336682_x6 | AC096587.1/25864-25727 | 29 | ###### | 42.1 | 6 | GCUAUCCUGGACUUGCCAGCCCCAUAGACACAGUUGCUGUGCUGUGCCUGUACUAUUGGAGCAAAGAAAAAGUGGCUAUUUCUAUGCUCAGUGUUCACAAACCAGUGAGCACUAAGAAUGGUUUAUAGCCUGACAUUU |
| co3_9356458_x6 | ENST00000363524.1 | 39 | 1E-07 | 46.1 | 6 | CCCTCCTACAAAGGCATGTCTATAGTTCCTTGTCTTTGGACATGTAAGAATTGGAGGCAA |
| co3_9361264_x6 | CM000679.2/76324196-76324299 | 15 | 0.006 | 30.2 | 6 | ATCATTTTGTAGTTCATAAGTGTGATCATTGGGTGTTCACGCTTACATGTGAGATGTGCCATCCTTGAACCTTGTTAGAACATCAGTACATCACCTGGCTGACA |
| co3_9361276_x6 | ENST00000459157.1 | 21 | ###### | 42.1 | 6 | ATCCTTTTGTAGTTCATGAGCGTGATGATTGGGTGTTCACATGCATGTGTGAGATGTGCC |
| co3_9362182_x6 | ENST00000364646.1 | 21 | 5E-07 | 42.1 | 6 | GCCCTCCTGGTGCTTACCACAGGCTGTGTTCTTACACTGACTGTATAGAATGAGAAGGTA |
| co3_9362518_x6 | ENST00000384423.1 | 21 | 5E-07 | 42.1 | 6 | ATCCAAGGTGATTCCCTCTCCAAGGGGACATCAGTGCCTCTCAGGAAAGTAGCAGCTTGG |
| co3_9362698_x6 | ENST00000362705.1 | 14 | 0.008 | 28.2 | 6 | TGGACCTATGATGATGACTGGTGGCGTATGAGTCATTGACGGTGAATACAGGTCTGGAAG |

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| co3_9364714_x6 | AC022107.8/66266-66397 | 20 | ###### | 32.2 | 6 | GCGCUGCCUUUGUACCCCACCGUGCCUCCGCCUGGUGUCUGGGGUCAGGUUGCAGUGCCAGAGCACGUGCUUGCGCAUAAAUGGGGCAGCCUGGCCCCCUGCGGAUGGUCCUUUUAACCGCGAGCAACAAGG |
| co3_9364726_x6 | ENST00000516131.1 | 22 | 1E-07 | 44.1 | 6 | GCCAGGTACCATGCAAAAGCAATCTTCCCTTTAGAATGACTGATGGTATGCTAAGGTTTT |
| co3_9365254_x6 | ENST00000517258.1 | 14 | 0.009 | 28.2 | 6 | GACTAGTACCACCTCACACCCGCAGAGCACTGGGCCCTGCCTGGGGTGAAATGCCAGTTG |
| co3_9367948_x6 | ENST00000620104.1 | 19 | 0.003 | 30.2 | 6 | AAAAAAAGTGTCCTTGAGCTTTCTGTCTGATTGTGGCAGCCAAGATTGAATAGAGGA |
| co3_9370636_x6 | ENST00000517111.1 | 28 | 0.001 | 32.2 | 6 | ATGCATCTATCTGACATGCCTGGAGCAGGTATTGTCTGCTGCTAAAGTTTCCACCACAGA |
| co3_9371074_x6 | AL132709.5/183412-183335 | 20 | ###### | 40.1 | 6 | UGGAUCAAUGAUGAGUAUUGGUGGAGGUGUCUGAAUCAACACUUUUGAUUAAGCCCUCUGUGUAACUCUGAGAUCUGU |
| co3_9371464_x6 | ENST00000630615.1 | 51 | 3E-24 | 101 | 6 | TCCTGTGTGAGAAATGATGAGGGTCAACATTCTTCATACCAAAGTGAAGACATGAGATCC |
| co3_9372352_x6 | ENST00000383895.1 | 20 | 2E-06 | 40.1 | 6 | AAAGCAGGTTGCAATTACAGTGCTTCATTTTGTGGAAGTACTGCCATTATCCTGCTGAAA |
| co3_9375160_x6 | ENST00000459507.1 | 18 | 0.008 | 28.2 | 6 | ATCCTGTTGTAGCTCATGAGCGTGATAATTGGGTGTTCATGTGCGTGTGTGAGATGTGCC |

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| co3_9379893_x5 | ENST00000517238.1 | 22 | 0.009 | 28.2 | 5 | CAAAGTTCTGGAATTACAGGTGTGAGCCACCGTGCCCAGCATTTAAAATTTTAATATGTA |
| co3_9383978_x5 | CM000676.2/69804331-69804203 | 30 | 3E-07 | 44.1 | 5 | AGGGTTTGCTTAGGGCAGGGAGGTTGAAGAGTGGCTCCTCTGTTTACAATACACCAAACAGGAATCTGGGGTCATTGTGACAAGGGGCACAAAACTTGTGTCCTCCCTACATGTGAAAAAAAAAAAAGA |
| co3_9384153_x5 | ENST00000384713.1 | 19 | ###### | 30.2 | 5 | CTACAATCATGGCAATATTTTTTGTCAACAGCGGTTCACCTAGTGAATGTTGATACTTTG |
| co3_9386608_x5 | ADDF011338994.1/3988-3917 | 15 | 0.004 | 30.2 | 5 | UGGGCAUGUGAUGUGACCUUCCUGAGCCUGCAUUCCCUCACCUGGAAAUGAUGAGCAGUUACUGAUGCCACA |
| co3_9388683_x5 | CM000677.2/64342566-64342698 | 14 | 0.008 | 28.2 | 5 | TGTTACTCTCTAGCTTAAGAACCTTTAATGTGGTGATGTCCATCTCATGTCATCCAGGGATAAAGCAACCCTTGTTTATCCCATCTTGGCTCTTGGTCTGTGCCCATGGCTGGTTCGTGCCTTGGATACATGG |
| co3_9389253_x5 | AB028893.1/10920-11006 | 44 | ###### | 87.7 | 5 | GGCAGAUGAUGUUUGUUUUCACGAUGGUCUUCAGAUGCCCACGUGGGCACUGCUGAGAAAGCCACUUGGUAAAACUGAUGCCGGAAA |
| co3_9390878_x5 | ENST00000384756.1 | 16 | 0.001 | 32.2 | 5 | TCCCAATGAAGAAACTTTCACATGTCTTACTCTCTGTCCTAGTCCCAGAGCCTGTAAAGG |

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|---|---|---|---|---|---|---|
| co3_9391998_x5 | AC115088.6/123021-122911 | 20 | 2E-06 | 40.1 | 5 | UGUGAGAGUGAUGAGUUGCACACUGGUGGAGCCAUGGUAUCAGGUGAUACAGGCACCACUCAGUAUCACCCUGGUGACAAAAUCAAGUGCACAGGGGCCAUCUGACUCACA |
| co3_9392073_x5 | CM000675.2/56559624-56559725 | 15 | ###### | 30.2 | 5 | ATCCATTTGTAGTTCAGAAACATGACTATTGTCTTTTCAAGCTTATATGAGATCTGGCTCCCTCAATCCTTGCTATGATATCAGTACATTACCTGTCTGATG |
| co3_9393508_x5 | AF141346.1/1275-1356 | 25 | 3E-09 | 50.1 | 5 | UGCCACAAUGAUGACAGUUUAUUUGCUACUCUUGAGUGCUAGAAUGAUGAGGAUCUUAACCACCAUUAUCUUAACUGAGGCA |
| co3_9393713_x5 | ENST00000364729.1 | 25 | ###### | 34.2 | 5 | TCCTGCATCCGAAAGTGATCATAGGCTGCCTGTGCCTAGGTCATTGATAGTGCAGGGAGA |
| co3_9394568_x5 | ENST00000364533.1 | 21 | 0.0005 | 34.2 | 5 | TCACTGTGATGATGGTTTTCCAACATTCGCAGTTTCCACCAGAAAGGTTTTCCTTAGTGT |
| co3_9395428_x5 | ENST00000408569.2 | 18 | 0.008 | 28.2 | 5 | TTGTATTTTTTGTAGAGATGGGGTCTCTCCCATGGGCACAGTCTCATTGTTTCTATAGTT |
| co3_9395698_x5 | ENST00000607261.1 | 22 | 3E-07 | 44.1 | 5 | TGGATCAATGATGAGTATTGGTGGAGGTGTCTGAATCAACACTTTTGATTAAGCCCTCTG |
| co3_9397198_x5 | CM000663.2/28578822-28578749 | 35 | 5E-15 | 69.9 | 5 | ACTGGTCCAGGATGAAACCTAATTTGAGTGGACATCCATGGATGAGAAATGCGGATATGGGACTGAGACCAGCT |
| co3_9398613_x5 | ENST00000391306.1 | 18 | 0.009 | 28.2 | 5 | TGAACTTTAAAATGCAAGTTCATAGTTCTTTAAGAGACTAACACAGAAAGCTAAAGTAAT |

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| co3_9402158_x5 | ENST00000516629.1 | 31 | 0.008 | 30.2 | 5 | GAGCAGTTTGGCATATGTTCTGAATCTGAGGTTGATTATTATTCCTTTAGCGCTAGTATT |
| co3_9402793_x5 | CM000664.2/27642169-27642043 | 14 | 0.009 | 28.2 | 5 | TTCTAAAGTGTTGAGTTCAGTCCAGGGTGGATCCCCTGCTCTGTTAATTGAACTGGAACATTTAAACTGGCTAGGCAAAATGCCTACATAGAAAGCATTACTCTTTATTCATCCCCAGCCTACAAAA |
| co3_9405003_x5 | ENST00000390859.1 | 22 | 2E-07 | 44.1 | 5 | GGATTTATAATGAGCTGTGTTTACTGAGCATTATGAAGTAAAGTTCAATATGATTACTCT |
| co3_9406833_x5 | ENST00000386967.1 | 18 | 5E-05 | 36.2 | 5 | TGGGAAGTGATGACACCTGTGACTGTTGATGTGGAACTGATTTATCGCGTATTCGTACTG |
| co3_9408028_x5 | CM000665.2/183453814-183453944 | 23 | ###### | 30.2 | 5 | AGGCAGGATCTAGTTACATTGTAGCTGTGAAGTGCTGCATTGTCTTTGCCCCCTGCTCAAAATAAAACTGTTACCTTTCAAGCCCTGTCTGCCATGGTGCTGTAGCAGCAGGGATGTTTGGTCTCATACAT |
| co3_9410823_x5 | ENST00000516883.1 | 30 | 0.0001 | 36.2 | 5 | TGTCAAAAATTCCCCAATCCTATTTCTGACACTTCATATGAAAGCTGCATGTGCAGTCTT |
| co3_9419098_x5 | ENST00000579995.1 | 28 | ###### | 40.1 | 5 | AACTATTGAGAACAAAGATGCAACATACCACTCGAGTGTGCAGTGGGGAAGCCAACCTTG |
| co3_9419168_x5 | ENST00000391089.1 | 31 | 0.005 | 30.2 | 5 | TGTTCTGACATGGGAAGAGTAGCTTCTGGTTGGTGGAGCCCATCTCACATTAGCCAGAGA |

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| co3_9420933_x5 | ENST00000459538.1 | 26 | 8E-10 | 52 | 5 | ACCCCTGGCAGCCCCTCCTGATGATTCTTCTTCCTGAGCACGCTCATGATGAGCAAACTG |
| co3_9427308_x5 | ENST00000364630.1 | 31 | 1E-07 | 46.1 | 5 | TGGACCAATGATGATGACTGGTGGTGTATGAGTTAAAGGTGATGAATAGTAAGTGTCTTT |
| co3_9434063_x5 | ENST00000384442.1 | 24 | 0.0006 | 32.2 | 5 | GGCTTGCTGGTGCTTACCACAGGCTGAATTCTTACACTGACTATATAGAAAAGGAGGTAG |
| co3_9435718_x5 | ENST00000363091.1 | 27 | 3E-05 | 38.2 | 5 | CTGAGTCCATGATGATTTCAAGTTATCCCTGTCTGAAGGCAAAGAAAGGCCTTTCTGTGT |
| co3_9437178_x5 | ENST00000384504.1 | 24 | 1E-08 | 48.1 | 5 | TGAGCACTTTCACAGGTCCTCCCTCAGGCTGTGGGGCCAGGATTTGGTAGCTGGTGCTGA |
| co3_9440298_x5 | ENST00000384122.1 | 29 | 1E-06 | 42.1 | 5 | GTTGAGGTCTATCCCGATAGGTCTTTTCCTGTAGCCTGCACGTTGTTGGAAATGCCTCAT |
| co3_9443112_x4 | ENST00000384151.1 | 28 | 0.001 | 32.2 | 4 | GGCCTTTTGGTGCTTACCACAGACTGTGCTCTTTCACTGACTGAATAGAGAGAGGAGGCA |
| co3_9445496_x4 | ENST00000383906.1 | 22 | ###### | 44.1 | 4 | GCATGGGTTTGGATTTATGACAGGCCCGTCACCCTGGGCCTGTCATAGTACCCCATGCCA |
| co3_9446848_x4 | ENST00000365321.1 | 15 | 0.003 | 30.2 | 4 | GTGAGTGATGAATAGTTCTGTGGCATATGAATCATTAATTTTGATTAAACCCTAAACTCT |
| co3_9448728_x4 | ENST00000458862.1 | 26 | 9E-10 | 52 | 4 | TGGAGGACTGAGAAGGTGAGGCAGTTTTGCCCCGTGCTGCCTTCCACCGGTTAAGACCTC |
| co3_9448940_x4 | ENST00000362915.1 | 25 | 3E-09 | 50.1 | 4 | TGGTCCATCCTAATCCCTGCCGGTCCATCTGTGGCCTGCCAGGTTTCGCTTGTGGACCAG |

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| co3_9449240_x4 | ENST00000459579.1 | 33 | 8E-14 | 65.9 | 4 | GCTCTGTGATGGAGCCCATGCGTGTCATCTGAGCCTCTGGCTTCCCTGCCAGTGCAGCCC |
| co3_9452388_x4 | AY077737.1/2-276 | 24 | 1E-08 | 48.1 | 4 | GGUCGUGAUGAUUGGUAAAAGGUCUGAUUGCACUGAAUGUCACAGUCCCUUUGUUGCCCUCAACUCCCAGCAGCCCAUUUUUCCCUCCCGUCACAUUUAAGUCAUGUGUAUGGGAUCAUGGAGCAGCUGAUAAUUUGGGAUUCUGUCAGUGUGUGUUUCUGAGAGUGAUCGACUCACAGCUGACGAGUAUCCAACAAAACCAGUUACACAGGAGACUGACGAGUGGCAGUCAUGGGUGUGAUGGUGCAUGAUCUCAAGUUUUCAAUCUGAGACC |
| co3_9455664_x4 | ENST00000636729.1 | 22 | 4E-05 | 36.2 | 4 | ATCATTATTGTTATTATTATATTTTTGAGAAGGAATCTCACTCTGTCGCCCAGGCTGGAG |
| co3_9455856_x4 | AJ609453.1/1-134 | 20 | ###### | 40.1 | 4 | UGCAGCCGUGUCAAAUUCAGUACCUGUCCUAUGCAUGGUAGGCACUGGCCCAGAAGGCUGCCACAGAAACACUGUGACUCAUGGGCCCUGUUCCUGUGUCCCAGGCUCAGGGAUAAAUUUGGUUACAGACAUCA |
| co3_9455892_x4 | ENST00000364699.1 | 24 | 1E-08 | 48.1 | 4 | TGGACCAATGATGACAAATGGTGGCATTGGAGTTATGGACGATGAATGATATGTGTCTGA |

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| co3_9456344_x4 | CM000679.2/28018770-28018907 | 16 | 0.001 | 32.2 | 4 | TGTCTCATTTTTGTAGATCAGGACACTGGGAGGCTCCCTTTTCTCCTTAGCCATGGCTGGAGGCCAAGTCCAGCCCTCAAGGATCATTGTCAGGACCAACACAAGCTGGACAGCCTTGTTTTCCTACCTCAGATGGGA |
| co3_9457056_x4 | AL132709.5/158545-158469 | 15 | 0.006 | 30.2 | 4 | UGAACUAGUGGUGAUGGCUUGUGGCAUAUUUAGUCACAGAUGAUGAAUAAAUACAUGCCUGAGACUCUGAGGUUAGU |
| co3_9457820_x4 | ENST00000364957.1 | 23 | 0.002 | 30.2 | 4 | ACTCCAGCCTGGCTGACAGAGTGGGACCCCATCTCAAAAAAAAAAAAAAAATTAAGCTGG |
| co3_9463472_x4 | ENST00000384706.1 | 19 | 2E-05 | 38.2 | 4 | GTCAGATGATTTGAATTGATAAGCTGATGTTCTGTGAGGTACAAAAGTTAATAGCATGTT |
| co3_9464316_x4 | ENST00000363883.1 | 25 | 2E-06 | 42.1 | 4 | CTACAAAGATAGCAACACTTTTCATCAACAGCAGTTCACCTAGAGAGAGTCGACACTTTT |
| co3_9464956_x4 | ENST00000630429.1 | 23 | 4E-08 | 46.1 | 4 | ACTGCCCCTAGAGGCGTTGCAGCTGTGGCTGCCGTGTCACATCTGTGTCATTAGGTGGCA |
| co3_9470200_x4 | ENST00000384436.1 | 26 | 9E-10 | 52 | 4 | CCGCAGCCAATTAAGCCGACTGAGTTCCTTTCCTCATGGGGACCCAGTGTGCGATGGCTG |

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| co3_9473196_x4 | AJ609484.1/1-166 | 22 | 1E-07 | 44.1 | 4 | CAGCACUUGAUACUAACCGAGCUGUCUAUAUCCUAGCCUUGUGUCAAAGGCUUGUGAUGUGUUGUGAUAGCUGGGUUUAAGAAGUGCAAUAUUAAAACAAAAGCCAUGAGUCUUUUAAGCCCAGUGUGUAAAGAUACACUCUGAGUUAUAACUCAGAGGCACAACU |
| co3_9473780_x4 | ENST00000631270.1 | 15 | 0.004 | 30.2 | 4 | GCTGTCCTGGACCTGCCAGCTGCACAGATGCAGATGCTCTGCTATGCCTGTAACATCGGG |
| co3_9475580_x4 | ENST00000384549.1 | 22 | 1E-07 | 44.1 | 4 | GGATCGATGATGACTTTTATACATGCATTCCTTGGAAAGCTGAACAAAATGAGTGAAAAC |
| co3_9476496_x4 | ENST00000516419.1 | 21 | 0.0001 | 34.2 | 4 | TACTCCAGCCTGGATGACAGAGCCAGACTCTGTCTCGAAAAAAAAAAAAAAAAAAGCTTA |
| co3_9477336_x4 | ENST00000365272.1 | 26 | 9E-05 | 36.2 | 4 | TAGATCAGTGATGACTACTGTTGGTGTATGAGTCATATACGATGAATACATGTCTGAAAT |
| co3_9484496_x4 | CM000685.2/124197743-124197849 | 22 | 1E-07 | 44.1 | 4 | TGTAACTTGTGGACAAGGCTTATTGACAGGTGCAAAAAATAAATAATCTTTTGCCACTCAGAACTCATTGTTCAGTATGAGTTTTGATACACATAAGAAGGAATATT |
| co3_9489036_x4 | ENST00000459473.1 | 20 | 2E-06 | 40.1 | 4 | GGTGAAAATGATGAATTCTGGGGCGCTGATTCATGTGACTTGAAAAATGCCATCCATTTC |
| co3_9494680_x4 | ENST00000584275.1 | 22 | 3E-07 | 44.1 | 4 | GCCATATGATGTTTTCTTTTCGAAAGGTGAGCGCTTTGCGCAGTGATGACCCTCATCTAT |

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| co3_9495112_x4 | ENST00000365346.2 | 22 | ###### | 36.2 | 4 | CTTGCCAGCCCCATAGACACAGTTGCTGTGCTGTGCCTGTACTATTGGAGCAAAGAAAAA |
| co3_9495332_x4 | ENST00000364587.1 | 22 | ###### | 44.1 | 4 | GCACCTGAATCTTTCCCATTCCTTGCTGCCTCGTGCCGGTGTGGGGACAGATGGTGCTAC |
| co3_9495628_x4 | AB007147.1/104-236 | 38 | 1E-16 | 75.8 | 4 | GGUCUCUCAGCUCCGCUUAACCACACGGGUCCAGUGUGUGCUUGGCGUGUUUUCAGGGAGGCAGAGAAAGGCUCUCCUAAUGNACGACAGACCCGCCCAGAAUGGCCUCUCUGUUCCUAGGAGUGCGACAAUU |
| co3_9498548_x4 | AC013722.8/184033-183920 | 28 | ###### | 56 | 4 | ACUGAGGAAUGAUGACAAGAAAAGGCCGAAUUGCAGUGUCUCCAUCAGCAGUUUGCUCUCCAUGGGCACACGAUGACAAAAUAUCCUGAAGCGAACCACUAGUCUGACCUCAGU |
| co3_9499568_x4 | CM000676.2/96323787-96323691 | 19 | 8E-06 | 38.2 | 4 | ATTCTTTTGTGGTTCATAAGCGTGATGATTGGGTGTTCACATGAATGTGTGAGATGTGTCACCCTCAAACCTTGTTGTGCTATTTTTCTGCCTGCCT |
| co3_9500392_x4 | CM000673.2/12904988-12904817 | 23 | 1E-05 | 38.2 | 4 | TTGATCACAGGACCCCTTTACACTCGTAAATAAATTATTGATGTACCAGACAGCCTGACCCTGACCTCAAGTAAATTCCCAGGAGACGCCTTTCCTGGGTTTTGAATTTGCCGTAACAGGTGTGAGCATTCTAGCAGCAGTTTGGTGATCATGTACGATACTGCAAACAGGA |

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| co3_9510120_x4 | AJ609435.1/1-128 | 22 | 1E-07 | 44.1 | 4 | GUGCACAUUUCAUUGACCUGCUUUCUUUUAUGUGAGUAGUGUUAUUUCUUAUGUGCUAUACAAAUAAUUGAAGGCUAAUUAGCAGUAUAACUAUAAAUAGUAAUGCUGCCAGUCUCCUUCAGACAAAA |
| co3_9518652_x4 | ENST00000365609.1 | 14 | ###### | 28.2 | 4 | TCACTGTGATGATGGTTTTTCAACGTTCACAGTTTCCACCAGAAAGATTTTCCTTAGTGT |
| co3_9520680_x4 | ENST00000384675.1 | 23 | 4E-08 | 46.1 | 4 | TTCCACAGCTACTGGTCTGCAGCTGTTCTTATGGTAGCAGTTGTGGCATTCCTCTGTGGG |
| co3_9524041_x3 | CM000669.2/102194205-102194076 | 26 | ###### | 52 | 3 | TGCCTCTTTTTGTTAAAGATAATTTGCTTTTTGGTAGTGCCCATCTCCTATCAGTCAGGGATGAAGCAATCCCTTGTTCATCCCCAGCTTGGCTTTTGATCTATGCCTGGTTCATGCCTTGGACACATGG |
| co3_9524647_x3 | CM000668.2/134206514-134206411 | 15 | 0.003 | 30.2 | 3 | ATCCCTTTGTCGTTTATAAGTGTGATGATTGGGTTTTCATGTTCCTGTGTGAGATATGCCTCCTTCAAGCCTTGTTATGATGTCTGCACATTACCTGCCTGTCA |
| co3_9527341_x3 | ENST00000391322.1 | 17 | 0.0002 | 34.2 | 3 | GTGCCCTTTTAAGGTTGACGCAGTGCTTTAAGGGGCTAACACAGAAGGGTAAAGGAAGTC |
| co3_9528949_x3 | ENST00000384158.1 | 29 | 2E-11 | 58 | 3 | GTCTTCTCATTGAGCTCCTTTCTGTCTATCAGTGGCAGTTTATGGATTCGCACGAGAAGA |
| co3_9531985_x3 | ENST00000391215.1 | 28 | 3E-08 | 48.1 | 3 | GTTCCCTTTTAAGGCTGACCCAGTGCTTTAAGAGGCTGATACAGAAGGGTAAAGTTAAGT |

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|---|---|---|---|---|---|---|
| co3_9532051_x3 | AJ609470.1/1-125 | 15 | 0.005 | 30.2 | 3 | GCGCUCACUAAGGCUCGGUCCUCUCCACGUGGUCCUGACCUGUCCUCUGUGAGCAAGAGAAACAGGACUGGUUUGGGGGUGUCCUGUCUCAGUGGACACAGGACACCACGGUUUUCAGUACAACA |
| co3_9532486_x3 | ENST00000384744.1 | 29 | 2E-11 | 58 | 3 | GCATGGTAATGGATTTATGGTGGGTCCTTCTCTGTGGGCCTCTCATAGTGTACCCATGCC |
| co3_9532561_x3 | ENST00000516517.1 | 42 | 5E-19 | 83.8 | 3 | GGATCGATGATGACTTTAAAATGGATCTCATCGGAATCTGAACAAAATGAGTGACCAAAT |
| co3_9535420_x3 | AC090527.3/17174-17301 | 14 | 0.008 | 28.2 | 3 | UUCCACCACUAUUGGUCUGCAGCUCUUCUUAUGGUAGCAGUUGUUGCAUUUCUCUGUGGGAAAGAAAAGAGGAUUAAACACCUCUUUCUUAGCAAAACAGAGAGUAGGCAUAUGUGUGACAGACACAA |
| co3_9535492_x3 | AC104581.22/69359-69497 | 21 | 6E-07 | 42.1 | 3 | UGGCUCGAUUUCCUGGGGGGUGGUCUCAGCCCACUCCACCUCCCCUCAGCCGAGCCUAGAGUAGAGGGGCCAGGCAUCCUCCCCAGGGGAGGGGCGUUGAAGCAAGGAGCCUCUCCUGGGCUGUCCUAGCCUCACAUUU |
| co3_9540571_x3 | ENST00000363024.1 | 16 | 0.0005 | 32.2 | 3 | GATCAAGGATGAAAATACCCAAATTTGAGTATCAGAAGACCTTCCAGTCTACTTGATGCA |
| co3_9541066_x3 | ENST00000384111.1 | 28 | 6E-11 | 56 | 3 | TGCAGCCGTGTCAAATTCAGTACCTGTCCTATGCATGGTAGGCACTGGCCCAGAAGGCTG |

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| co3_9543628_x3 | ENST00000607595.1 | 19 | 0.005 | 30.2 | 3 | TCCAGCAGTCGTTAGCTCTCCTGGCTAGTGTGATGCCTGTGATGGTGTTTCACTGTTGGA |
| co3_9551137_x3 | CM000677.2/75121666-75121536 | 16 | 0.001 | 32.2 | 3 | AACCAATTGTGCCAGTGGGGCTATGGGTGGCCCCTTTTCTCCTCAGTCAGGGCTGGAGGCCAAGATCAGCCTTTGAGGATTATCAGGGCTGCCACAAGCTGGGCAGCCTTGTTTTCCTACCTCAGACATTT |
| co3_9552556_x3 | ENST00000363156.1 | 20 | 2E-06 | 40.1 | 3 | TCGATGGGTGGGATAATCCTTACCTGTTCCTCGTTTTGGAGGGCAGATAGAACATGATGA |
| co3_9554266_x3 | ENST00000516616.1 | 26 | 0.0001 | 36.2 | 3 | TTAAATGTCCATCACAGGAAACACCTTTAGAGTAACTCTGTGGTTTTGCTTTATTCACAG |
| co3_9556936_x3 | ENST00000384142.1 | 25 | 0.0002 | 34.2 | 3 | CTGCAGTCAATTAAGTGTACTGAGTTCCTTTCCTTATGGGGGCCCAGTGTGCAATGGCTG |
| co3_9557341_x3 | ENST00000383966.1 | 32 | 3E-13 | 63.9 | 3 | CGGCAGACAGTTATCCCTTTCTAGTCTGGCTCGTGGGACTCTAGAGGGAGTCAGTCTGCA |
| co3_9559702_x3 | ENST00000391287.1 | 29 | 0.0002 | 34.2 | 3 | ACTGCCCCTGGAGGCATTGCAGATGTGGCTGCTGTGTCACATTTGTGTCATTAGGTAGCA |
| co3_9560770_x3 | ENST00000391292.1 | 15 | 0.002 | 30.2 | 3 | TCATCAGATGGGATAACTTTTACCTGTTCCTCCTTTTGGAGGTTAGATTCTAATACGATG |
| co3_9562390_x3 | ENST00000384300.1 | 54 | ###### | 54 | 3 | ATCCAAGGGGATTCCCTCTCCAAGGGAACATGCAGTGCCCCTCTCAGGAAAGTAACAACC |

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| co3_9565915_x3 | CM000663.2/26006216-26006299 | 21 | 0.0004 | 34.2 | 3 | TGGCCAGTGATGAAGTCACCATTAGTGCAGTCTGAGTTCTGGGAACCAGGTGATGGAGTGTGTTCCAAGAATGGACTGAGGGCC |
| co3_9567508_x3 | ENST00000390930.1 | 28 | 6E-11 | 56 | 3 | GTGAAATGATGATTCAGTTTATCCATTCGCTGAGTGCGCTGCACTGACCTTCTTCCAAGC |
| co3_9570835_x3 | AL355075.6/193439-193515 | 21 | 5E-07 | 42.1 | 3 | AGUUUGCCAUGAUGAAAUGCAUGUUAAGUCCGUGUUUCAGCUGAUCAGCCUGAUUAAACACAUGCUCUGAGCAGACU |
| co3_9571657_x3 | ENST00000384028.1 | 41 | 7E-09 | 50.1 | 3 | CTGGCACTTTCACAGTTCCTTCCCCAGGCAGTGGGGCCAGGATTTGGTAGCTGGTGCTGA |
| co3_9575071_x3 | CM000670.2/27755122-27755032 | 16 | 0.0008 | 32.2 | 3 | ATCCTTCTGTAGTTTATGAGTGTGATGATTGGCTGTTCATGTGCATGTATGAGATGTGCCACCCTTGAACCTTGTCATGTCTGATGTGAAA |
| co3_9576118_x3 | ENST00000608459.2 | 22 | 3E-07 | 44.1 | 3 | TTAGAGGTATTTTCAGTACTCTGGCTTAAGAGCCAATGATGTTTTTATTCAAAATGTCTG |
| co3_9578092_x3 | CM000679.2/19662000-19662090 | 33 | 2E-11 | 58 | 3 | CTGATTCTTTGTACTAGGATGCAAAAGAAAACAATCCTTGTGCCTTCTATCTCTCTTGGTGGCAGCCCAGATTGAATTGGGGAATACATCT |
| co3_9580648_x3 | ENST00000516884.1 | 14 | 0.008 | 28.2 | 3 | TGTAACTTGTGGACAAGGCTTATTGACAGGTGCAAAAAATAAATAATCTTTTGCCACTCA |

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| co3_9585970_x3 | BK005567.1/284-353 | 32 | 3E-13 | 63.9 | 3 | GGGCAAUGAUGAAAAGGUUUUACUACUGAUCUUUGUAACUAUGAUGGUUUCUACACUUGACCUGAGCUCA |
| co3_9586507_x3 | CM000677.2/22060827-22060727 | 18 | 0.008 | 28.2 | 3 | ATCCCTTCGTAGTTCATAAGCGTGATGACTGAGTTTTTGCACTCCTGTGTGAAATGTACCTCCCTCAAACCTTATGACATATATACATTACCTGACTCACA |
| co3_9587260_x3 | ENST00000364139.1 | 35 | 0.007 | 30.2 | 3 | TGCTGGAGTGATGAAAAAGTATCTTCAGGTGTGGCTGTGGCCACCTTGGCCACCTGTGTG |
| co3_9589828_x3 | ENST00000390843.2 | 24 | 0.0008 | 32.2 | 3 | TAGTCAGGCAGGATAATCCCTATCTGTTCCTCCTTTTGGAGGGCAGTAGAATGTGGTAAT |
| co3_9589891_x3 | AC020918.6/165518-165651 | 30 | 8E-05 | 36.2 | 3 | GGCCUCCUGGUGCUUACAAGCAGCUGUGUGCUUGCAUUGACUGUACAGAAAAAAAGAGAUAGAGUAAACACACCCCGUAUACAACUCAGCCCAGGUCCUGUGCCUUGUCUAUAUUGUGAAUAGGGGGGACAUAG |
| co3_9597850_x3 | ENST00000384785.1 | 30 | ###### | 52 | 3 | TTCCACCACTATTGGTCTGCAGCTCTTCTTATGGTAGCAGTTGTTGCATTTCTCTGTGGG |
| co3_9601135_x3 | ENST00000363090.1 | 14 | 0.008 | 28.2 | 3 | GGGTCGATGATGAGAAACTTATATTGTCTGAAGAGAGGTGATGACTTAAAAATCATGCTC |
| co3_9601837_x3 | ENST00000384084.1 | 23 | 9E-08 | 46.1 | 3 | GGTCTCTCAGCTCCGCTTAACCACACGGGTCCAGTGTGTGCTTGGCGTGTTTTCAGGGAG |

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|---|---|---|---|---|---|---|
| co3_9604834_x3 | AY077738.1/1-265 | 24 | 1E-08 | 48.1 | 3 | GGUCAAUGAUGAAUGGUAAAAGGUCUGAGUCCUCAGAUCCCCUCCCGGCAUCCCAGUUAUCCCCAGCUGCCUCUCCUCCAUCGCACUUCAGAAGUGCUGCGAUGGGCAGAAGGGCAGCUGACACUCCGUGAUGUCCCUCAUUCUGUGUUCCUCCGUGAGCUCAGGGAAGACACUGGUUGGCAUCCAACAGCUUAGUCACAAAGGGAUUUGAUUGUUGGGAGUGCUGGUAUCUGUGGCUAUGAUCUGCCUUGUUCAAGCUGAGACC |
| co3_9605323_x3 | CM000678.2/2796532-2796408 | 24 | 2E-08 | 48.1 | 3 | GCCGAGACTAAGTCGCATGCTGACACAGCTCTTGGTGTGCTACGGTACTTGGAGAGAATCTACTGGTCTTGATTCACTGGTGGGGGCAGTTGTTGCTTCCTTTAGTGCCCAGATCAGAAACATAC |
| co3_9606556_x3 | ENST00000458838.1 | 16 | 0.0009 | 32.2 | 3 | CTGGAAAAGACAATGATGTTTTATTTCCAAGCACATATCTGAGTTGTATGTGTGGACAGC |
| co3_9608623_x3 | CM000675.2/22803145-22803224 | 21 | ###### | 42.1 | 3 | TTCCTAAAGATTCACAATGAACATTATTATTTAAGAGCTTTTTGAAGTGCAAATCCATGAGCTTTTTAACCCTGAGCAAT |
| co3_9608851_x3 | ENST00000459128.1 | 14 | 0.009 | 28.2 | 3 | GGATCGATGATGAGAATAATTGTCTGAGGATGCTGAGGGACTCATTCCAGATGTCAATCT |
| co3_9618832_x3 | ENST00000384737.1 | 26 | 8E-10 | 52 | 3 | GTGCACATTTCATTGACCTGCTTTCTTTTATGTGAGTAGTGTTATTTCTTATGTGCTATA |

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|---|---|---|---|---|---|---|
| co3_9619288_x3 | CM000675.2/41180087-41179981 | 22 | 0.009 | 28.2 | 3 | ATCCTTTTGTAGTTTATAAGCGTGATGACTGGGGTTTCACGTGCATGTGTGAAATGTGCCTTCCCCAAGCCTTGTTATGACCTCATTGGAACATTACCCCTTTGACA |
| co3_9623452_x3 | ENST00000362701.1 | 14 | 0.009 | 28.2 | 3 | TTGGGCAGTGAACACCCAAGTGTGCTTTATAGTTCCTTTGGCTTTGACTTTGTGCTAGAG |
| co3_9626239_x3 | ENST00000363548.1 | 25 | 3E-09 | 50.1 | 3 | ATGCAGGTACTGTTACAATACAACTGATGTGTTTTGTTGTCGTTCCCCCTGCTTAAAGCA |
| co3_9628090_x3 | AJ609482.1/1-130 | 24 | 1E-08 | 48.1 | 3 | UGGACAUUUAUUUUUAUUCAGUUUCUUCUCAAGGUGAAGAUAACUCUUUGUAAAUGUCCUACAGAAAUAUAGUAGCUUUCUGUUCUUCCUUUGCAAGUAAAAAGGGUGGGUCGUUCCACUACUGACAUUU |
| co3_9629443_x3 | AL132709.5/180473-180397 | 18 | ###### | 28.2 | 3 | UGGAUCAAUGAUGAGUAUGCGUGGGGCAUCUGAAUCAAAUAUUCUGAUUAUACCCUGUCUGUAUCUCUGAGGUCCAU |
| co3_9636247_x3 | ENST00000364802.1 | 28 | 5E-06 | 40.1 | 3 | TGGACCAATGATGAGTACCATGGGGTATCTGAAACAGGATTTTTGATTAAACCCATATGC |
| co3_9637981_x3 | ENST00000459475.1 | 16 | 0.0008 | 32.2 | 3 | AGTTTGCCATGATGAAATGCATGTTAAGTCCGTGTTTCAGCTGATCAGCCTGATTAAACA |

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| co3_9642187_x3 | CM000672.2/23166985-23167101 | 22 | 0.0001 | 36.2 | 3 | AGCATTAAATCTACTGAAGATATCCACATCCTTAGACAGACGCAAAAAATAAATTCTCTTTTGCAACTCAGAGCTCATTGTGCGGTATGAGCTTTGATACATATAAGAAGGAATATT |
| co3_9645772_x3 | ENST00000459201.1 | 22 | 0.009 | 28.2 | 3 | ATCATTTTGTAGTTCATAAGCATGATGATTGGGCATTCACATGGATGTGTGAAATGTGCC |
| co3_9646633_x3 | CM000663.2/51231356-51231253 | 45 | 8E-09 | 50.1 | 3 | ATTCTTTTGTAATTCATAAGCATGATGACTCGGTATTCACGTGCATGTGTGAGATGTGCCACCCTGGAACCTTGTTGCAACGTCAGCACATTATGGGTCTGACA |
| co3_9647374_x3 | ENST00000384452.1 | 40 | 7E-18 | 79.8 | 3 | CTGCATTCTTAAACCCTCTTGGTAGCTTCGTTCTAAGTGCTTCCAAGATATGAGTGAATG |
| co3_9652192_x3 | CM000668.2/92790453-92790665 | 31 | ###### | 30.2 | 3 | AAGACTCCTTTCAGGAATCATTTCTTTAGTTCCTACTAGAGAGGCTTCTCTTAACATGTGGAGCGCTGGAAACCACAAAGAGGAGGTGCAGCATTCAGTTCTAAGTGTGAAGTGGATTCTTGGTGTTGCTGTGCTGCAACTGCCATTTGCTAATGATGACCTTGCTTTTCTTACTTAGAGTAAGACAGAGAGACAGCAGTCAGCCTAAGCGGT |
| co3_9654991_x2 | ENST00000384107.1 | 15 | 0.004 | 30.2 | 2 | TGCCTCATTCTAGAGAATGGGCACTGTTGATCATGGTGTCCAAAAATAGTTAATGTGGCT |
| co3_9655031_x2 | ENST00000516482.1 | 19 | ###### | 30.2 | 2 | ATGCACATCTGCTGCTATGGTTTCCACTACAGATGCAAGGAAAAAGTGTCCTCGTCCTTT |

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| co3_9656437_x2 | ENST00000517233.1 | 15 | 0.003 | 30.2 | 2 | CTGCATTTTACCCTCCCTGATGGGGCTCAGTGTGCAGCAGCTGGAAAAAGTAGATGCCCT |
| co3_9657267_x2 | ENST00000364506.1 | 15 | 0.007 | 30.2 | 2 | CTGCAGCTAGTTAACCTGACTTGTCCACCTCCCTGCTGGGGGCTCAGTGTGCAATGGTTG |
| co3_9657311_x2 | ENST00000362535.1 | 20 | 5E-06 | 40.1 | 2 | AGCCTCATGCTAGATGAGAATGGGCACTGTTGATCAAGGTGTCCAAAAATAGTTAATGTG |
| co3_9663145_x2 | ENST00000391000.1 | 26 | 2E-07 | 44.1 | 2 | AGGGAAGTGATGACAACTGTGACTGTTGTGTGACACTGATTTCTCTCATATTTGTACTGG |
| co3_9664297_x2 | CM000664.2/69912695-69912799 | 15 | 0.004 | 30.2 | 2 | ATCCTTTTATAGTTCATAAACATAGTAATTAGGTGTTCCCATTGCATGTATGAGATGTGCCTCCCAAAGAGCTTGTTACAGCGTTAGTACATTACCTGTCTGATA |
| co3_9664691_x2 | ENST00000364009.1 | 20 | 0.001 | 32.2 | 2 | TCACAATGATGAATGGTCCAAAACATTCGCGGTTTCCACCAGAATTCAAGGTGTTGGCAA |
| co3_9667629_x2 | CM000672.2/12145663-12145766 | 14 | 0.008 | 28.2 | 2 | ATGCTTTCGTAGTCCGTAGATGTGATGATTGGATCTTCACGCTCGTGTGTGAGATGTGCCTCTCTCCAGCCTTGTTAGGATGTTGGAACATTACCCATCTGACA |
| co3_9669043_x2 | CM000678.2/11467641-11467729 | 14 | 0.008 | 28.2 | 2 | AACCTAAACATGACAACTGGGTTTTCATGCTATTGCATGATACCTGCCTCCCTCAAAACTTGTTACATCATCATATCACTCACCTGATA |

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| co3_9670257_x2 | CM000675.2/32420516-32420390 | 34 | 0.0001 | 36.2 | 2 | AATTGGGATCAAAGATGCAGCCGCCTTCCCATTTAAGCAGCACAGACAGCCCAAAGTGACAGTTTTCCTGTACAGTTACTCTTCTGTTATCTGTAACTGATCTATGACATTTTGGGAAAAAACAGCC |
| co3_9670475_x2 | CM000679.2/19557560-19557711 | 25 | 3E-09 | 50.1 | 2 | GCCCAGGGTATGTTCACGGGGCGATGCTGCCCTCCCAGCTGGCCCATGGGTGACCCTGGGAACATTAACTGCCTCACAACGTTTGTGCCTCAGTTACCCGTAGATGTAGTGAGGGTAACAATACTTACTCTCGTTGGTGATAAGGAACAGCT |
| co3_9671365_x2 | CM000665.2/129074095-129074202 | 14 | 0.009 | 28.2 | 2 | AGCCTTTTGTAGTTTATAAGTGTGATGATTGGCTTTTCTCATTCTTGTGTGAGTGAGAACTTCTTTTCTCAAACCTTGTTATGATGTCAGCACATTACCTACCAGACA |
| co3_9672219_x2 | AC020634.16/18995-18865 | 16 | 0.0006 | 32.2 | 2 | UGCAGCUGUGUCAAAUUUGGUGCCUGCCCUGCCUGUGUAGGCACUGACCCAGAAGGCUGCCACAGAAACACUGACUCAUGGGCCCUGUUCCUGUGUCUCGGGCUCAGGGAUAAAUUUGGUUACAGAUACCA |
| co3_9672987_x2 | CM000684.2/21545125-21545207 | 24 | 3E-06 | 40.1 | 2 | CAGCCAATGATGACGTGGCCACCGCACAATCTGAGTTCTGGGAACCATGTGATGGAATGTGTTCTGGGAATAGACTGCAGCCA |

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| co3_9673379_x2 | CM000664.2/218185082-218184979 | 14 | 0.009 | 28.2 | 2 | ATACTTTTGTAGCTCATAAGCATGATGATTCAGTGTCCAAGTGCATGCATGAGATGTGCCTCCCTCAAACCTTGTCACAACATCAGCACGTTGCTCATCTGACA |
| co3_9674549_x2 | CM000663.2/12221271-12221148 | 22 | 0.009 | 28.2 | 2 | CTAGAAAAATTGAAGATTTGGCCACTCTGGAAACTGCTGAGGGCCCCATGTGTAATGGCTGCAAACAGCTTCCTTTGTTGTGTAGACAGCCTGAGTTTTTCTCTAAGGGACTATGGAGACAGCC |
| co3_9675351_x2 | ENST00000362696.1 | 42 | 2E-09 | 52 | 2 | GGCCTCTCAGTGCCGCTTAATCACACAGGTCCAGTGTGTGCTTGGTGTCTTTTCTGGGAG |
| co3_9676467_x2 | ENST00000408528.2 | 15 | 0.006 | 30.2 | 2 | AAGACTCCTTTCAGGAATCATTTCTTTAGTTCCTACTAGAGAGGCTTCTCTTAACATGTG |
| co3_9679169_x2 | ENST00000390904.1 | 14 | 0.008 | 28.2 | 2 | AAAGCAAGCTGGAATTACAGTGCTTCATTTTGTGAAATACTAAATACCATCATTATGCTG |
| co3_9679543_x2 | CM000663.2/49151390-49151503 | 14 | 0.008 | 28.2 | 2 | ATAGTTTAAAAAATTTGTTAAGCATGATGATTAACTTTTCACAATAATGCAATAATGTGTGAGCTATGCCTCTCTCAAACCTTATTATGATGTTGGCCCATTACCCATCTGATG |
| co3_9680181_x2 | ENST00000390993.1 | 14 | 0.008 | 28.2 | 2 | TTCAGATGATTTGAATTGATAAGCTGAGGTTCTGTGAGGAATGACAGTTAAGAGCATGTT |

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| co3_9680471_x2 | CM000669.2/138482583-138482480 | 17 | 0.0002 | 34.2 | 2 | ATCCTTTTGTGGTTCATAAGCATGATGATCAGGTTTTCAGGCATATGTGTACGATGTGCCTCCTTCAAACTTTGTTAGGATGCTACCACGCTACCCATCTGACT |
| co3_9681185_x2 | BA000025.2/106547-106465 | 20 | 2E-06 | 40.1 | 2 | UGGGAGUGGUAAUGAUGAUCUGGUUGGACAAGAGUCUCUGAGCUUUUCUCUGAGGAUCUUUGAACCCACCUGAUCCACCUUCA |
| co3_9681695_x2 | ENST00000578836.1 | 18 | 4E-05 | 36.2 | 2 | CTGCAGACAGTTAAGCCAACTGAGTTCCTTTCCTCAGGGAGGCCCAGTGTACAATGGCTG |
| co3_9681757_x2 | ENST00000630737.1 | 31 | 1E-12 | 61.9 | 2 | GAGCACTGCTTTAGAGCCTCTGCGTGTCTGGCTGTGGCCTCAGGGGTCTAGCAGCAGTGC |
| co3_9683337_x2 | CM000667.2/138559039-138558970 | 24 | 1E-08 | 48.1 | 2 | GTGCCGTGATGTATTTGTCAACACATCACTCTGAAGAAAAGTATGTGGTGACTTTCTGTGACTGAGCATG |
| co3_9685657_x2 | CM000663.2/171768070-171768175 | 15 | 0.003 | 30.2 | 2 | CACCCCTTTTCTCCTCAGCCAAGGCTAGAGGCCAAGATCAGCCCTCAGGGATCATCATCAGGACTGCCATGAGCTGAGCTGCCTTGTTTTCCTGCCGCAAACATGT |
| co3_9686409_x2 | BC028232.1/151-277 | 26 | 8E-10 | 52 | 2 | GUUGGUUGAAAAUCGCCCCCGGCUUUGGCCGUGGCCGCGGGUGAGAUUCGGCGCCCAGAGCCCCCGGGGGCCUCAGCUCACCGCGCGCUGCCCCAUGUGCGGCGGUGAAACCCAGGCCCCGACAGGC |

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|---|---|---|---|---|---|---|
| co3_9691283_x2 | CM000685.2/88148792-88148918 | 14 | 0.008 | 28.2 | 2 | GTTGGTTGTGAATAACCCTTGGCTTTGATTGTGGCTGTGGATGAAATTCAGCACCTACAGCCACCAGTAGCCTTAGCTCACCACCCACTGTCTCAATATCATGGGTAAAACCCAGGCTCTGACAGGC |
| co3_9692659_x2 | ENST00000384492.1 | 15 | 0.003 | 30.2 | 2 | CTGCAACCAATTAAGCCGACCTAGTTCCTTTCCTCTTTGGGGCCTGGTGTTCAATAGCTG |
| co3_9692801_x2 | ENST00000516087.1 | 17 | 0.0002 | 34.2 | 2 | GGATCGATGATGACTTAAAGATTTATCTAATTTAAATCTGAACAAAATGAGTGACCAAAA |
| co3_9694563_x2 | CM000678.2/68630968-68630864 | 27 | 0.006 | 30.2 | 2 | TAGTGTGGAACTGTCTACTCCTCATTCCTGTGGAAGCAGGAATACATTCATAACATGCTCCATTAAAAAAGGAGTTCTAGGCCAGGCAGCGTGCCTCATGCCTGG |
| co3_9701909_x2 | CM000674.2/64575665-64575741 | 16 | 0.001 | 32.2 | 2 | GCCAAATGATGCTTATTTGACTCTGGTGCACTTCAGTGTAAGGATGATTTATAATCTGTCACTCATGATTGAAGGCC |
| co3_9703327_x2 | CM000672.2/6017194-6017054 | 15 | 0.007 | 30.2 | 2 | ATGCATCTTAGAACATCCAGGAGACAGTCTTCTAAAATACCAGTGAGTGGCAAGATATGAGTAAATTCCACAGGAAAAGGAAGGCAGTCCAAAGGGCTGTGCTTCTCCTGTGGCTCAGTGTTATTCATAGCTGTGACATCT |
| co3_9703849_x2 | ENST00000584302.1 | 26 | 8E-10 | 52 | 2 | CTACCAAAAGTTAGCTTTTTGGGGGGCAGGTTTTTAAGTAACCTTTGCCAACTTGGGCTA |

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| co3_9705133_x2 | ENST00000459083.1 | 34 | 2E-14 | 67.9 | 2 | GGTGCAAATGATGCATATGTTAGCGACCAAAGCCTGATCTTTGCTGATTAGTCATAATTA |
| co3_9706143_x2 | AK024486.1/3319-3428 | 23 | 4E-08 | 46.1 | 2 | UGCCCAGUGAUGACACCAUCCUUGCUCCCCGUGCCCCCCAGGGGCUAUGGGCGACACCAUGGCUGCCCCUGGGCUGGGCCAGUGGGGCCAAUGCCCAGGGGCUGAGGGCA |
| co3_9706733_x2 | ENST00000581669.1 | 14 | 0.009 | 28.2 | 2 | TGCTGGTGGTGAAGCTCCCTCTCTCCGAGCACTGGGCCCTGCCTGGGGTAAGGCT |
| co3_9708441_x2 | CM000670.2/56121352-56121242 | 31 | 4E-10 | 54 | 2 | ACCAAGATTCAAGTCACATTCCGAGTGTCCCGGTGTGCTAGGGCACTTGCAGAGAATCTGCTGGTCTTGATTCACTGGTGGGGGCAATCGGTGCCCAGATTAGGAACATGC |
| co3_9708937_x2 | ENST00000383865.1 | 17 | 0.0001 | 34.2 | 2 | GTGGAGGTCTATTCCAATGGGGCTTTTCCTGTAGCTGCATGTTGTTGGAAACTCCTCATA |
| co3_9710099_x2 | ENST00000391196.1 | 45 | 6E-16 | 73.8 | 2 | GATCACGGTGATGGCTGACCAGGGCTCCCTGACCTATACAGGCCTCTGCTATGGGGGTGA |
| co3_9710481_x2 | CM000678.2/12297323-12297197 | 15 | 0.003 | 30.2 | 2 | ATTACTTGAAAATCACTCCCAGGCTTTGGCCATGGCAGCAGGTGAGATTCAAGGCCCAGAGCCTCCAGGGCCTCAGCTCACCGCACACTGCCCCGTGTGTGGTGGGGAAACCCAGACCCCAACAGGT |

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|---|---|---|---|---|---|---|
| co3_9711173_x2 | CM000679.2/35054494-35054388 | 15 | 0.002 | 30.2 | 2 | ATTATTTTGTTGTTCATAAGTGTAATGATTGGATTTTCATGCACATGTATGAGATGTGCCTCCATCAAGCCTTGTTACTACAAAGTCAGTGCATTACCCATCTGATG |
| co3_9713057_x2 | ENST00000364595.1 | 29 | 0.0002 | 34.2 | 2 | AGCCTCCTGGTGCTCAGCACAGGATGTGTTCTTACCCTAACCAAATAGAAAGAGTAGGCT |
| co3_9715043_x2 | CM000669.2/66434507-66434618 | 16 | 0.0006 | 32.2 | 2 | AGCCTCCCAAAGCACTGGGAGTGTGATGACTAGGTTTTCACACTGGGTTTTCATGTGTGAGATATGCCTTGCTCAAACCTTGTTACAGCACTGGCACATTGCCTGTCGGATG |
| co3_9719117_x2 | ENST00000363915.1 | 22 | 1E-07 | 44.1 | 2 | TCCCAATGATGAGTTGCCATGCTAATACTGAGCCACCAGGTAGGGCAGTGTTGCCCTGGT |
| co3_9719989_x2 | ENST00000384004.1 | 23 | 5E-08 | 46.1 | 2 | TTCTAAAGTGTTGAGTTCAGTCCAGGGTGGATCCCCTGCTCTGTTAATTGAACTGGAACA |
| co3_9723867_x2 | CM000685.2/71440644-71440517 | 20 | 0.0007 | 32.2 | 2 | ATCTTTTTGTAGTTCATAAGCTTATGATGACGTAAGTGTGACGACATTGGGTTTTCACGTTCATGTGTGAGATGTGCCTCCCTCAAGCCTTATTACAATGCCAGTACATTTTTTTTCCACATCTGATG |
| co3_9724929_x2 | CM000682.2/56475643-56475745 | 15 | 0.007 | 30.2 | 2 | ATTCTTTAGTAGTTCATAATGCTATGATTGGGTTTCCATGTGCACATGTAAGATGTGCCTCTCTCAAGCCTTGTTGTGACATCAGCACATTACCCATCTGATG |

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|---|---|---|---|---|---|---|
| co3_9728625_x2 | CM000672.2/101371952-101371852 | 33 | 0.0004 | 34.2 | 2 | ATCCTTTTGTAGTTTGTAAGCATGACGATTGGGTTTTCAGCCTCATGTGTGAGGTGTGCCTCCCTCAAACCTTGTTACATAGGCACATTACCTGTCTGGCA |
| co3_9733119_x2 | AC104763.12/68286-68156 | 20 | 2E-06 | 40.1 | 2 | UGCCUCUCUCCCAUGGGCUUUGGGGGGUCCCUGUUCUCCUUAGCCAAGGCUGGAGGCCAAGAGCAGCCCUCGAGGAUCGUCGUCAGGACUGCCACGAGUGGGGCAGCCUUGUUUUCCUGCCUCAGACAUGU |
| co3_9737289_x2 | ENST00000516313.1 | 15 | 0.006 | 30.2 | 2 | AAGATTCGACAGATACCCTACTGCCTCTCTTTGTGGCGGCGGGGCTCAGGCTGCAGCACC |
| co3_9738139_x2 | CM000678.2/18870269-18870166 | 19 | 0.006 | 30.2 | 2 | ATCCTTTTGTAATACATAAGCATAATGATTGGGTTTTTATTTTCACATGTTTGATATGCCTCCCTCAAATCCTCTTATGATGTCAGCACATTACCCATCTGAGG |
| co3_9742435_x2 | ENST00000384448.1 | 15 | 0.003 | 30.2 | 2 | GGCCTCCTGGTGCTTACAAGCAGCTGTGTGCTTGCATTGACTGTACAGAAAAAAAGAGAT |
| co3_9743871_x2 | ENST00000410253.1 | 15 | 0.002 | 30.2 | 2 | TGGACCAATGATGTGAATGGAATGCATCTGAATAAAAATTATGATCAATCAGTTTTTGGA |
| co3_9745063_x2 | ENST00000362603.1 | 27 | 0.004 | 30.2 | 2 | GTGCATGTACTGTTACAATCTAACTGAAGTATTTTATTGTTACCCCTGCTTAAAGCAGTA |
| co3_9756573_x2 | ENST00000458863.1 | 31 | 2E-05 | 38.2 | 2 | ATCCTGTTGTAGTTCATAAGCATGATGATTTGGTGTTCACGTGCATGTGTGGGATGTGCC |
| co3_9757403_x2 | ENST00000390981.1 | 26 | 8E-10 | 52 | 2 | ACTGAGGAATGATGACAAGAAAAGGCCGAATTGCAGTGTCTCCATCAGCAGTTTGCTCTC |
| co3_9760825_x2 | ENST00000516792.1 | 19 | 0.004 | 30.2 | 2 | GAGGAGGTCCATTTTAAAAAAGAATAGATTGGAAATGCCTCATAGAGTAACTCTGTGGTT |

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| co3_9766385_x2 | CM000664.2/70930415-70930303 | 15 | 0.002 | 30.2 | 2 | GTCCTTTTGTAGTTCTTCAGCAGGATGACTGGGTGTTCATGCTCCTATGTGAGATGTGCTTTCCTCAAACCTCAAACCTTGCTGGCAAGCAGTGAGTCAAGGCTGTTCTGAGT |
| co3_9769245_x2 | ENST00000459124.2 | 22 | 1E-07 | 44.1 | 2 | GTGTTCAATGATGATTTCTATTTGTTTGCCTGATTTCCTTTTGGATAATGAAGGCATCTT |
| co3_9774633_x2 | CM000664.2/75489576-75489710 | 14 | 0.008 | 28.2 | 2 | CTGTGTGTAGAAATGTTTGCTCCTCTATCCTTTGGGAACAGGAATACATTCATAACATGCTACATGTAAAAAGGACTCCCCAGGGTGGCCAATCTTATGGTAGAGGTTGTATGGTAATATATTTCTCCTTCATAA |
| co3_9776839_x2 | ENST00000384370.1 | 25 | 0.0003 | 34.2 | 2 | CTGCAACCAATTAAGCTGACTGAATTCCTTTCCTCCCGGGGGCCAGGTGTGCAATGGCTG |
| co3_9779939_x2 | AB061842.1/1832-1898 | 35 | 5E-15 | 69.9 | 2 | UGGCGAUGAGGAGGUACCUAUUGUGUUGAGUAACGGUGAUAAUUUUAUACGCUAUUCUGAGCCAGCA |
| co3_9784327_x2 | AF250841.1/176878-176958 | 14 | 0.009 | 28.2 | 2 | GGGGCAAUAUGGAGAUGUUAUAUUGUCUUCGACAGGGAAGAUGACAUAAAAAUUAUGUUCAAUAGGAUUAUGUGGAGACUU |
| co3_9791267_x2 | CM000677.2/40607312-40607212 | 19 | 0.004 | 30.2 | 2 | ATCTTTTCGTAGTTCATAAGTGTGATTGGGTTTTCACACGCATGTGTGAGATGTGCTTTCTTCAAACTTTGTTACGATGTTGGCACATTATACATCTGACA |
| co3_9793117_x2 | CM000684.2/24901214-24901147 | 19 | 0.007 | 30.2 | 2 | CCGCAGTGACAGCAATATTTTTCATCCACAGTTCACCTCATGAATGTTGTCACTTTGGGTCTGAGTGA |

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| co3_9793625_x2 | ENST00000390833.1 | 23 | 4E-08 | 46.1 | 2 | TGTGAGAGTGATGAGTTGCACACTGGTGGAGCCATGGTATCAGGTGATACAGGCACCACT |
| co3_9797917_x2 | ENST00000363219.1 | 15 | 0.003 | 30.2 | 2 | TGAGCAAGCGATGACAGCCGGTGGTGTGTGAGTCATGGAGGATGAATACTAAGTGCCTGG |
| co3_9804627_x2 | CM000664.2/183064346-183064235 | 24 | 3E-06 | 40.1 | 2 | GCAGACTCCCTCAGCATCCAGCGGGTGCTTTTTCGGTCTGCCAGTGAGCATTCCATGGTGCTGTGACCATTTTGACCTCTCTAGGGTGATGCAGCTGCCTGGGGACACAGAG |
| co3_9807709_x2 | ENST00000362493.1 | 24 | 1E-08 | 48.1 | 2 | AGGCAGGATCTAGTTACATTGTAGCTGTGAAGTGCTGCATTGTCTTTGCCCCCTGCTCAA |
| co3_9816233_x2 | CM000672.2/100019594-100019699 | 27 | 0.003 | 30.2 | 2 | GTCATTTTGTAGGTCATAAGCATGATGATTGAGTTTTCATGCTCATGCGTGAGATGTACCTCCCTCAAACCTTGCTACAACATTGGTAATGTACCAATGTCTGACA |
| co3_9818833_x2 | AADB02016115.1/24955-25031 | 15 | 0.005 | 30.2 | 2 | UGGACCAAUGAUGAGACAGUGUUUAUGAACAAAAGAUCAUGAUUAAUCCAGUUCUGCACAAAACACUGAGGUCCAUU |
| co3_9824971_x2 | CM000666.2/139436494-139436368 | 21 | 1E-06 | 42.1 | 2 | ATTGGTTGAAAATCACCCCCCGGCTTTGGCCATGGCAGCGGGTGAGATTCGGCGCCCAGAGCCTCCAGGGGCCTCAGCTCACCGCACGCTGACACATGTGCGGCGGTGAAACCCAGCCCCAACAGGC |
| co3_9828857_x2 | ENST00000627561.1 | 17 | 0.0004 | 34.2 | 2 | GCGCTGCCTTTGTACCCCACCGTGCCTCCGCCTGGTGTCTGGGGTCAGGTTGCAGTGCCA |
| co3_9833797_x2 | CM000673.2/62854285-62854161 | 14 | 0.009 | 28.2 | 2 | CTCCAATGAGGAGGAAACATCCTGCCTTACCCCTGTTTTAGCCTGGGAACCAGTAATTGTGAACTCACCAGGGTTAACATGAAGAGGGCATGAGAGCTTATTCCATAAGGAATTGTCTGAGACAT |

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|---|---|---|---|---|---|---|
| co3_9835943_x2 | AF250841.1/143208-143289 | 28 | 6E-11 | 56 | 2 | GGGUCAAUGAUGAGAACCGUAUAUUGUCCUGAAGAGCGGUGAUGACUUAAAAAUAAUGCUCAAUAGGAUUACGCUGAGGCCC |
| co3_9836487_x2 | ENST00000384275.1 | 21 | 0.0004 | 34.2 | 2 | TGCAGCTGTGTCAAATTTGGTGCCTGCCCTGCCTGTGTAGGCACTGACCCAGAAGGCTGC |
| co3_9840517_x2 | CM000672.2/26789017-26789157 | 15 | 0.003 | 30.2 | 2 | CCTCATTTTCTTGGCAGGAACTTGTAGTCCCACTCCCTGTTATGTACAGAGGCAAAGGGAAGAGCTCTGGCCCCCTTGGCATGTCTTTGGAGCCATGCAGCTTCCCGTCTGCCAGTTCTATCCTCAAGCACCAGGACACCA |
| co3_9842255_x2 | ENST00000364764.1 | 14 | 0.009 | 28.2 | 2 | GGGTCAATGATGAGATGTTACCTTGAAGAGAAATGATGACGTAAAAATTAAGTTCAGTTG |
| co3_9844811_x2 | CM000665.2/60856605-60856389 | 15 | 0.008 | 30.2 | 2 | AAGATTATATTTCCAGGGGTCATTTCTGTGGTTCATTACTTAAAGGAGTTTCCCCAAGTGTGTAGAGCACTGGAAACCACAGGAAGATATGCAATGTTCTCTCCCGAGCACGAAGCTCGTTCTTGGTGTTGCTTCATTGCAACTGCCATTTGCCATTGATCATTGTTTTTTTCTTCCTTTGGGGAGATTAAGAGGAAGAGGACACAGTCTGAGTGAT |
| co3_9857099_x2 | AC007025.2/13587-13714 | 14 | 0.008 | 28.2 | 2 | CAGCACUGCCAAGUGACCCAUUGGGCUCCAUCUUGACCAACUGGGCAUCAAGCGGUGCAAAAGCAAAUCCCUCUCAAAGCUGGGAGAGUCACACCGUGGGCUACUCCUGCAUGCAGCUGGGUACAUAU |
| co3_9862255_x2 | ENST00000517059.1 | 16 | 0.001 | 32.2 | 2 | TCAAATGAGCCTGAGCTGACATTGTAGAGGATGTAGATGGCTGAAGAAACTGTTCAGCTG |
| co3_9865421_x2 | ENST00000391126.1 | 15 | 0.004 | 30.2 | 2 | GGGTCATGAGGAGGTTTGATGACATAAAAATTATGCTCATAAGTATTATGCTGAGACCC |
| co3_9865425_x2 | ENST00000517263.1 | 15 | 0.005 | 30.2 | 2 | TGATGACACTCTCTGGAATTGTTACACTACCATAATTAAAGTGCACTGAATCTTTTTCTA |

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|---|---|---|---|---|---|---|
| co3_9866683_x2 | ENST00000391284.1 | 23 | 0.003 | 30.2 | 2 | ACCTCTGCTGGGGTGTTTAAAGGTCAGCGCTGTAGATATTCAGCATCTGGCATCTTGGCT |
| co3_9877153_x2 | ENST00000408746.2 | 15 | 0.002 | 30.2 | 2 | AAGACTTTATCCCCCCACCCCGCAAAGAAAAGGAAGAAGAAGAGTTTTTAAATGGCGCAG |
| co3_9888217_x2 | ENST00000516618.1 | 16 | 0.001 | 32.2 | 2 | TATAAATGTGATGAATTGCACACTCGCAGAGTCATAGCATTAGGGGATGCAGGCAGTGTT |
| co3_9891115_x2 | ENST00000516440.1 | 36 | 0.001 | 32.2 | 2 | GTTGAGGTCTAACACGATAGGGCTTTATCTGTAGCCACACCATCTGGAAACATCTAGTGT |
| co3_9892605_x2 | ENST00000516178.1 | 17 | 0.0001 | 34.2 | 2 | GTGTGGGATGTGTGTCTAAACACGACAATCTGAAGACAGAGGTGTAGAAATTGGCAAGTT |
| co3_9898399_x2 | CM000664.2/232678963-232679065 | 14 | 0.009 | 28.2 | 2 | ATCCTTTTGCGGTTCATAATGTGATGACTAGGTTTTCATGTCCATGTGTGAAGTGCGCCTTCCTCCAATCCTGTTAAGATGTCAGCACATTTGCCTTCTGACA |
| co3_9903973_x2 | CM000669.2/56100659-56100752 | 14 | 0.009 | 28.2 | 2 | ATCCTTTTGTAGTTAAGTGTGATGACAGGGTTTTCACACTCATGAAGTGTGCCTCCCTCAAAACTGGTTGCATTGACACACTACCCATCTGACA |
| co3_9904717_x2 | ENST00000516202.1 | 14 | 0.009 | 28.2 | 2 | AGGACGTCAAACCATCATAAAGTATAGATCTCCACAGGATGCCATAGTGAATAGTGCTAT |
| co3_9904763_x2 | CM000672.2/21485638-21485722 | 14 | 0.009 | 28.2 | 2 | AAGACTGTATTTTCAGAGCTCATTTCTGTAGTTCATTACTATGGAAGTTTCTGTAAATATATAGAGGTCTACAAAACAAAAAAGT |

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|---|---|---|---|---|---|---|
| co3_9906443_x2 | ENST00000384614.1 | 15 | 0.004 | 30.2 | 2 | TTGCACAGTGAACACCCAAGTGTGCTTTATAGTTCCCTTGGCTTTGACCCTGTGCTAGAG |
| co3_9909739_x2 | ENST00000391256.1 | 15 | 0.003 | 30.2 | 2 | GTGCCTAAGGTTAACACAGCGCCTTAAGAGGCTAACACAGAAGGGCAAAGTAAGTCTCCA |
| co3_9910211_x2 | BC036582.1/1156-1210 | 16 | 0.0008 | 32.2 | 2 | GGGGUGAUGAAGGCCUGCACCUGGUCCCCUCCCCAACUCUGCUCUGCUCCUGAAG |
| co3_9916043_x2 | ENST00000365313.1 | 15 | 0.003 | 30.2 | 2 | TTACCAAAAGTTAATGTTTTCAGAGAATGCTTTGGTTAAAAAGCCTTTACCAACTTGGGC |
| co3_9917627_x2 | ENST00000516540.1 | 15 | 0.003 | 30.2 | 2 | CTGATTCTTTGTACTAGGATGCAAAAGAAAACAATCCTTGTGCCTTCTATCTCTCTTGGT |
| co3_9927243_x2 | CM000668.2/100957160-100957263 | 15 | 0.006 | 30.2 | 2 | ATCCTTTTGTAATTTATAAGCATCATGGTTAGGATTTAATGCTCATATGTGAGCTGAGCCTCCCTCAAACATTGTTAGGACATCAACACAATACCAGTCTGATA |
| co3_9927449_x2 | CM000667.2/122796088-122796227 | 15 | 0.003 | 30.2 | 2 | ATTCTTTTGTGGCTCATAAGCTTGGGATTTTCACACTAAACATTTTTAACTCATGAGGTTGGGACTTCACATTAATCTCTAATCTTTGAGATTGCCTCCCTCAAACCTTGCTACAGTATTGGCACATTACCCATCTCACA |
| co3_9931167_x2 | ENST00000515987.1 | 15 | 0.003 | 30.2 | 2 | GATCAGCTTTTCAAAGGTTTACTGCATTTTACCCTCCCTGATGGGGCTCAGTGTGCGCAG |
| co3_9931405_x2 | CM000669.2/5485395-5485501 | 19 | 0.003 | 30.2 | 2 | ATCCTCCTATAGTTCCTCAATGTGATGACTGGGTGTTCACACTCATTGGCGAGATGTGCCTCTCTCAAACCTTGTTCAGATGCTGCAGACACATTACCCATCAGATG |
| co3_9941009_x2 | ENST00000516468.1 | 28 | 0.001 | 32.2 | 2 | GGATTGACGATGACTTTAAAAAAAAAAAATCTCATTGAAATCTGAAAAAAATGAGTGACC |

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| co3_9943255_x2 | ENST00000459070.1 | 15 | 0.005 | 30.2 | 2 | ATTGGTTGAATATCACCCCTGGCTTTGGCCATGGCCATGGGAGAGATTTGGCACCCAGAG |
| co3_9945737_x2 | ENST00000458974.1 | 22 | 1E-07 | 44.1 | 2 | TGGACCAATGATGAGACAGTGTTTATGAACAAAAGATCATGATTAATCCAGTTCTGCACA |
| co3_9948399_x2 | CM000679.2/69355283-69355133 | 27 | 0.003 | 30.2 | 2 | TGCACCTGTTTGAGGAATAAAGGAATTAAAACTCCCAAAAGAGGACAAATATTAACAAAAATGTATGGACAGACGCAAAAAAACAAATCCTCATTTGCAACCCAGAACTAATTGTTTAGTATGATTTTTGACACATATAAGAAGGAGTATT |
| co3_9953483_x2 | ENST00000459373.1 | 19 | 0.004 | 30.2 | 2 | GTTGGTTGAAAATCGCCCCCGGCTTTGGCCGTGGCCGCGGGTGAGATTCGGCGCCCAGAG |
| co3_9957335_x2 | ENST00000515906.1 | 19 | 1E-05 | 38.2 | 2 | TTCACAATGTCTATTGAAGGATCTCATCACCTTTAGAGAGCTGTGGTCATGCCCCTTAAA |
| co3_9960053_x2 | ENST00000607417.1 | 20 | 2E-06 | 40.1 | 2 | CAGCATTGTGCAATGGCCTTTGGTTTTTCTTGTAACCAGTTAGGTCTGAAACCAATGCAA |
| co3_9967585_x2 | ENST00000390889.1 | 27 | 0.004 | 30.2 | 2 | AAATAATTAAATTTCTCCAAATAGCTGGAGTTACTGGCAAATTGTTTAGTGGCAAACATG |
| co3_9969105_x2 | CM000685.2/118738055-118738182 | 14 | 0.008 | 28.2 | 2 | TAGCACTGTTGCCTGAGCCATTGGTGCTCCCTGGTACTAGCTCAGTTTTAATGCAGTGCAATAGGAATTCTTTGTTTCCACAAGGCCTTGTCCTGCTGTGGGCTGCTCCTTCCCACAGTTGGACCTTG |
| co3_9975207_x2 | ENST00000578183.1 | 14 | 0.009 | 28.2 | 2 | AACATAGAGTACACATTTTCTGTTTTGTTTAAGAATTATTCTCTTGCAGACCTATGTTTT |
| co3_9980723_x2 | ENST00000517285.1 | 15 | 0.002 | 30.2 | 2 | TTCCTAAAGATTCACAATGAACATTATTATTTAAGAGCTTTTTGAAGTGCAAATCCATGA |

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| co3_9982125_x2 | ENST00000517160.1 | 16 | 0.0008 | 32.2 | 2 | CTAGAAAAATTGAAGATTTGGCCACTCTGGAAACTGCTGAGGGCCCCATGTGTAATGGCT |
| co3_9983939_x2 | ENST00000365647.1 | 14 | 0.009 | 28.2 | 2 | AGACTCCCAGCTCTGCCCAGTTACACTAGGCTTCGCCTGTGTGGCTTCTGTAATGGGGAG |
| co3_9984365_x2 | ENST00000459278.1 | 14 | 0.009 | 28.2 | 2 | ATCCTTTTGTAGCTCATAAGCAGGATGACTGGGTTTTCACACTCAGGTGTGAGATGTGCC |
| co3_9985511_x2 | ENST00000365189.1 | 23 | 0.003 | 30.2 | 2 | AGCCTCATTCTAGATGAGAATGGGTACTGCTGATCATGGTGTCCAAAAAACTTTATGTGG |
| co3_9993327_x2 | AC023490.5/121842-121984 | 16 | 0.0007 | 32.2 | 2 | UUCUCAGGUCGCCAGUGCAGCCCCAAGAUGAGCCUGCAGUAUUUUCCUUACAUGAUCUGGUCCUACUGUGGGCAGCGCUGCUGCCCAGAGCCUGAGAGGAUUAUGAAAACAUGGCAACGGAAGUGAGGCCAGGGGACACAGCA |
| co3_9994299_x2 | AC090227.10/15587-15444 | 20 | 2E-06 | 40.1 | 2 | CUUUCGGGUCCCCAUUGCAGCCCCCGGAUGAGCCCGCAGUAUUUUCCUUAUAUGAUCAGGUCCCAUUGCGGGCGGCGCCGCUUGCCCGGAGCCUGAGAGGAUUAUGAAAACGUGGCGAGCGAAAUGGGGCCAGGGGACCUGGAG |
| co3_9995207_x2 | CM000673.2/8555016-8555146 | 14 | 0.009 | 28.2 | 2 | GACCTCTCTCTCATAGGGCTGTAGGGGATCTTTTTTCTCTTCAGCCAGGGTTGGAGGCCAAGATGGCCCTTGAGAATCATCATCATGACTGCTGAGAGCTGGGCAGCCTTGTTTACCTCCCTTGGGCATTT |
| co3_9998483_x2 | ENST00000516329.1 | 14 | 0.008 | 28.2 | 2 | AGCACTTGTATGTTTTAACATGTGGACATTTATAGACAGGTTCAAAAAGTCCTCTTGCAA |
| co3_9998713_x2 | CM000663.2/5680952-5681026 | 14 | 0.009 | 28.2 | 2 | CTCAGCTGGGCTTTTTTTAAGTAACAAGTGACTGGGCCACTGACATGTAAAGAGGGAAGTGAGGTGCTCCTGGAG |
| co3_10001378_x1 | ENST00000612741.1 | 15 | 0.006 | 30.2 | 1 | CTACAATCAATTAAGCCACATGGGGCCTGGTGTGCAAGGGCTGCAAACAGCAGCATCCTA |

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|---|---|---|---|---|---|---|
| co3_10003567_x1 | ENST00000516158.1 | 16 | 0.0007 | 32.2 | 1 | ATATAGTTGGACTCAACACCTCTCTATCAGAAATGGACAGATCCAGATCATGAAGAGATT |
| co3_10003769_x1 | CM000667.2/65961319-65961183 | 15 | 0.005 | 30.2 | 1 | TCACATTTTATCAACCAAATGAATTAGGGAAAAAAGTTCATGCCCAGGGGTGAGACTATAGTGCCAGAACACTTGCTTGTGCATAATTAAGGCCACTTGCCCTCTTCAGGTAGCCCTTTTAACTGGGAGCAAAGTGA |
| co3_10006260_x1 | CM000673.2/92729415-92729330 | 14 | 0.008 | 28.2 | 1 | GTCCATTTGCAGTTCATAAGTGTGATGACTGGGTTTTCCCACACGTGAGAGATGTGTCTCCCTCAAATCTTATTACCCATCTGATG |
| co3_10006288_x1 | ENST00000459316.1 | 14 | 0.009 | 28.2 | 1 | TTGCATGAGGAAGTATCTGCTCTTCATTCCTTTGGGAGGAGAAATACATCCATAACATGC |
| co3_10009678_x1 | ENST00000516449.1 | 15 | 0.005 | 30.2 | 1 | TCCCATCTCTTAAATAAAAAGATTTTTTTTTTAAGAAGTTGTACATGTGCAATGGCTGCA |
| co3_10011491_x1 | CM000685.2/32848005-32847907 | 14 | 0.008 | 28.2 | 1 | ATCCTTTCGTAATTCATAAGCATGATTTGGGTGTTTATACTCAGATATGAGATAAGCCTTTCTCTAAACTTATGATGTTGGCACACTACCCATTTGATA |
| co3_10013325_x1 | ENST00000516320.1 | 15 | 0.008 | 30.2 | 1 | GCCAGCAGTCGCCAGGTGTCTCTCACGCTGCTGGGAGAGGAATGTCTCGTCTTCTTCATC |
| co3_10015707_x1 | ENST00000391159.1 | 22 | 0.009 | 28.2 | 1 | ATTTTACATAGCGCTGCAGATGTGGCTGCTGTGTCACATTTGTGTTATTAGGTGGCAGAG |
| co3_10021566_x1 | ENST00000408198.2 | 14 | 0.009 | 28.2 | 1 | AAGATGACACTTTGAGGCATCGTGTCTATGGTTCATTACTACAGAAGCTTCTCTGGATGT |

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| co3_10022634_x1 | ENST00000391095.1 | 19 | 0.004 | 30.2 | 1 | ATTCTTAAATGAATGATGAAATACCAAAAAGAAAAATAAGCAAAGAACAGATAACAGAAA |
| co3_10023187_x1 | CM000685.2/48561801-48561702 | 14 | 0.009 | 28.2 | 1 | ATCCTTTTGTAATTCAACAATGTGATGATTGGGCTTTCACACTTGTGTGAGATGCACCTCGCTCAAACCTTGTTAACATCTGCACGGTACCTGTCTGAAG |
| co3_10026103_x1 | ENST00000516310.1 | 16 | 0.0008 | 32.2 | 1 | GTTGGATGAAAATCATCCCGGGCTTTGCCAGTGGCCGCGAGTGCCCAGAGCTTCCAGGGG |
| co3_10026839_x1 | CM000684.2/17641519-17641406 | 15 | 0.005 | 30.2 | 1 | ATCCTTTTGCGGTTCATAAAGAACCAAGATGACTGGGTTTCATGCTAATGCATGACATGTGCCTCCCTCAAATCATGTTGCCTCATGGGCTTATTGGCACATTACCGTCTGAGG |
| co3_10030747_x1 | ENST00000516084.2 | 15 | 0.003 | 30.2 | 1 | TCCATTTCAGAAAGCCGAGGTCAAAATAATGAGTCCTGGGGAATTCAAACTTGTGTTAAG |
| co3_10031791_x1 | CM000663.2/204727991-204728106 | 16 | 0.0005 | 32.2 | 1 | CGCCTTTCTCCCATGGGCTGTGTGGGGTCCCTGTTCTTCGCAGCTAAGGCTGGAGGCCAAGATCAGCCTTTGAGGACTGTCATCAGAATTGCCTTGCTTTCCTGCCTCAGATGTGA |
| co3_10032062_x1 | ENST00000516427.1 | 17 | 0.0003 | 34.2 | 1 | GGTCTCTTGTGTCGGCACCTGGGTGGCTTGCCGCCCACACAACCAAATTAAAAAATAACA |
| co3_10032252_x1 | ENST00000365037.1 | 16 | 0.0007 | 32.2 | 1 | GGGTCAATGATGAGAACCTTACATTGTCCTGAAGAGAGATGATGACTTAAAAATCATGCT |
| co3_10038023_x1 | ENST00000363528.1 | 15 | 0.004 | 30.2 | 1 | CAGTCAGTGTCGAGAACCTTATATTGTTCTGAAGAGAGGTGGTGACTTAAAAATCATGCT |
| co3_10040085_x1 | ENST00000516848.1 | 15 | 0.003 | 30.2 | 1 | CTACAACCAGCTACTGGTTGATCTTACATTTGATCTGGTGTGCAATGGCTGCAAACAGCA |

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|---|---|---|---|---|---|---|
| co3_10043969_x1 | CM000663.2/13696199-13696070 | 15 | 0.003 | 30.2 | 1 | AGGACTTGCCTCATTAGTAATACAACCAAGCTGATAGGGTAGTTTGGCAGGACACACAGCCATTTCCCTCTCAGCTTAGGAAGGCTGTCATAAGACTAGGACTAGCTCTGCAAGGCAAGAGAAGGACAAT |
| co3_10048336_x1 | CM000671.2/62358285-62358191 | 14 | 0.008 | 28.2 | 1 | CTACAATCAATTAAGCCACATGGGGCCTGGTGTGCAAGGGCTGCAAACAGCATCATCCTAGGTAGTGTACAGCAGCCTGTTCCTTGCGTACAACA |
| co3_10051202_x1 | CM000664.2/88307360-88307463 | 15 | 0.005 | 30.2 | 1 | ATCCTTTTGCAGCTCATAAGTGTGATGATTGGGTTTTCACACTCATGTGTAAGATGTGTTTCCCTCAAACCTTGCTATGATATCAGCACAGTACCTATCTGACA |
| co3_10053017_x1 | ENST00000516207.1 | 14 | 0.009 | 28.2 | 1 | GTTGGTTGTGAATAACCCTTGGCTTTGATTGTGGCTGTGGATGAAATTCAGCACCTACAG |
| co3_10059331_x1 | ENST00000384159.1 | 15 | 0.003 | 30.2 | 1 | CTGCAGTCAATTAAGCCAGCTGTACTCCTTTCCTCACAGGGGCTCGGTGTAATGGCTGCA |
| co3_10062447_x1 | CM000674.2/101358849-101358748 | 14 | 0.009 | 28.2 | 1 | ATGCTTCATAATTTATAAGTGTGATGGTTGGGTTTCTATGTTTATGGGTGAGATATGTCTCCCTCAACCTTGTTACAACAGTTGGGCATTATCTGCCTGATG |
| co3_10063514_x1 | ENST00000410734.2 | 15 | 0.005 | 30.2 | 1 | AGGACTGTGCTTTCAGAGTTCATGTCCACAGCTCATTGCGGGGGCAGTTTCTCTGATCGT |
| co3_10063842_x1 | ENST00000408571.1 | 20 | 0.0005 | 32.2 | 1 | GCAGACTCCCTCAGCATCCAGCGGGTGCTTTTTCGGTCTGCCAGTGAGCATTCCATGGTG |

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|---|---|---|---|---|---|---|
| co3_10064028_x1 | CM000683.2/41604683-41604586 | 15 | 0.004 | 30.2 | 1 | TTCCCTGTGACACATCAGCAGGATGACTGGGCTTTCATCCTCCTGGGTGGGACATGCCTCCCTCAAGCCTTGCTGCTGGGCACATTATCTGTCCAACA |
| co3_10067821_x1 | ENST00000364863.1 | 14 | 0.008 | 28.2 | 1 | GATGCCTTCCGGAACATGCCAGCACCGCAGATGCTGGCAGTCTGCTGTGCCCGTGATATT |
| co3_10067912_x1 | ENST00000408212.1 | 15 | 0.007 | 30.2 | 1 | TGTTTAATGACTAAGGAAGGTCCCTGTCCCCGCCAGGGGCTGTGAGCAACACCATGGCTG |
| co3_10068360_x1 | ENST00000364961.1 | 15 | 0.003 | 30.2 | 1 | GTGTTGATGATGAGAACCTTATATTATCCTGAAGAGAGGTGATGACTTAAAAATCATGCT |
| co3_10069328_x1 | ENST00000364394.1 | 45 | 8E-21 | 89.7 | 1 | AATGAATGATGACAAAATGTTTCAGTCCCAAATGATACATACTGATTATACCATTATATT |
| co3_10073829_x1 | ENST00000516890.1 | 24 | 1E-08 | 48.1 | 1 | CCTCTTCTCAGAACACTTCCTGGGTCTGATTGGTGGCCCAGGGAGCTGTCAGAGAAGAGC |
| co3_10076055_x1 | ENST00000517061.1 | 14 | 0.008 | 28.2 | 1 | GCTTAGGGAGGGTGCTCTGCCCAGGTTCCAATCCTGGTTCCACTGCATATGAGCCTTGTA |
| co3_10083072_x1 | ENST00000362963.1 | 15 | 0.005 | 30.2 | 1 | GGGTCGATGATGAGAACCTTATATTTTCTGAAGAGAGGTGATGACTTAAAAATCATGCTC |
| co3_10084484_x1 | AC069351.5/37957-38002 | 14 | 0.009 | 28.2 | 1 | AGCUGAAGAGCUGAUGAUGUUCCCCUAAAGCUGAAGCUCUUAAGCU |
| co3_10084901_x1 | CM000667.2/119069400-119069297 | 14 | 0.009 | 28.2 | 1 | ATACTTTTTAGTTCATAAGTGGGATGATTGTGTGTTCACACTTGTGTGAGACGTCCCTCCCTCAAACCTTGTTGCGCCATCATCTGCACATTACCCATCTGATG |

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| co3_10085428_x1 | CM000679.2/82141663-82141773 | 16 | 0.0006 | 32.2 | 1 | ATCCTTTTGTGGTTCATCCGCCTGATGATTGGGTTTTCATGCAGACGTGTGAGCTGTGCCTCCCTCAAGCCTTGTTACAACATCCGACATCCGCACATTACCTGTCTGATG |
| co3_10088162_x1 | ENST00000408117.2 | 23 | 0.003 | 30.2 | 1 | AAGCTTGTACTCTCAGTGATCATTGCTGTAGTTACGAGATAAGCTTCTCTGAACATGCAG |
| co3_10091319_x1 | ENST00000364902.1 | 26 | 8E-10 | 52 | 1 | TGCAGTCAAGTCAAATTCAGTGCCCGTTTCTGTCATAGCGGGGGCTGGCCCAGATGGCTG |
| co3_10093728_x1 | ENST00000515966.1 | 16 | 0.0008 | 32.2 | 1 | GCCCTATGTTAAAATTTTAATTCTGCACTTACTAACTATCTTGGGAACCTTGGGCAAGTA |
| co3_10096195_x1 | ENST00000362945.2 | 15 | 0.003 | 30.2 | 1 | CCTGCCAGCTGCACAGATGCAGATGCTCTGCTATGCCTGTAACATCGGGGCGAAGTGAAA |
| co3_10098971_x1 | CM000663.2/202197731-202197628 | 47 | 0.008 | 30.2 | 1 | ATACTTTTGTAGTTAAGAAGTGTGACAATTGGGTTTTCGTGCTCACATGTGAGAAGTGCCTCCCTCAAACCTTGTTATGAAGTCAGCACATTACTGGTCTTCTT |
| co3_10108121_x1 | CM000669.2/129061531-129061634 | 19 | 0.005 | 30.2 | 1 | ATTCTTTTGTAGCTGATAAGCATGATGACTGGAGTTTCACGTGCATGTGTGAGATATACCTCCCTCCAACCTTGTTACCACATCTGCACATTACCTGCCTGATG |
| co3_10112589_x1 | CM000675.2/110414205-110414306 | 14 | 0.008 | 28.2 | 1 | GTCCTTTTGTGGGTCATCAGCATGATGCTGGGGCGTTCACACTCGTGTGAGACATGCCTCTCTCAAACCTTGTTAAGATGTCAGCACATGACCCATCTCACA |

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|---|---|---|---|---|---|---|
| co3_10115536_x1 | CM000680.2/3573043-3572940 | 16 | 0.0006 | 32.2 | 1 | ATCTTTTTGTGATTCATCAGCATGATGATTGGGTCTTCACACAAAAGTTTAAGATGTGCCTCCCTCACATCTTATTATCGTGTCAGCATATTTCCTGTCTGAAG |
| co3_10119633_x1 | CM000665.2/47466349-47466448 | 14 | 0.008 | 28.2 | 1 | ATCTTCTGTAGTTCATCAGTATGATACCTGGGTGTTTCACACACATGTGAGATGAGTCATTCTTGAACCTTGTTATGATGTCAGCACTACCCATCTAACC |
| co3_10120475_x1 | CM000663.2/224336791-224336889 | 37 | 0.0003 | 34.2 | 1 | ATCCTTTTGTAGTTCCTAAGTGTGAAGAATGGGTGTTCATGCAGAAGGATAAGATGTGCTACCCTCAAACCTTGTTCCGTGCATATTACACGTCTGACA |
| co3_10121214_x1 | ENST00000516391.1 | 15 | 0.003 | 30.2 | 1 | TGGTCAGGCTGTGGCTGTGGCACAGCACTTGGCTTTCTCCTGGGGGCACTGGGGAGCCAT |
| co3_10125715_x1 | AC010746.8/140334-140470 | 22 | 5E-05 | 36.2 | 1 | CUACCAAAAGUUAAUUUUUUAUGGGGAAGGCUUUCUAAAUAACCUUUACCAAUUUGGGCUAUUUGGGAGAGUAAAGGAAAGACCACACUCCACAGCGGGCUAUACCAAUAGUUCACUACUAUUUUGUGGUCUACAUU |
| co3_10127798_x1 | CM000672.2/104399790-104399903 | 14 | 0.009 | 28.2 | 1 | ATATAATTGCAATTAATAATTACATGATTTGATCTTGACTGGGTGTTCACATGTATGTGTAAGATATGCCTCCCTCAAACCTTATCACGATGTCGGCACATTACCCATCCAACA |
| co3_10128686_x1 | ENST00000391093.1 | 15 | 0.004 | 30.2 | 1 | TTTACAAGGGAAAAGCAACCCCATTAAAAAGTGGGCAAAGTAAGGTCTTTGGGGAACAGG |
| co3_10133677_x1 | CM000684.2/22517780-22517875 | 15 | 0.002 | 30.2 | 1 | ATCCTTTTGTGAGGATAAGCGTGATGCTTGGGTTTTCACTCATGTGAGATGTGCTTCCCTCAAACCTTGTTATATCAGCATGTTTAACATCTGATG |

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|---|---|---|---|---|---|---|
| co3_10135805_x1 | ENST00000517136.1 | 15 | 0.004 | 30.2 | 1 | TGAGTTTTGGGATGAGACCCTGGAATAAGTGCTGGACACAGTGCCTGAATCAGACTGTGG |
| co3_10140685_x1 | ENST00000459445.2 | 14 | 0.008 | 28.2 | 1 | TCATATATTAAGTGCTTTATAACGAATTCTTGCAAAATGGATTTAACAGAACATGACGAC |
| co3_10140765_x1 | ENST00000364941.1 | 15 | 0.003 | 30.2 | 1 | GTCTGCATTTGAAAGTGATCATCAGCTAGCCTGTGTCTTCGTCATCGATAGTACAGGCCG |
| co3_10141872_x1 | ENST00000364514.1 | 14 | 0.009 | 28.2 | 1 | AGGCAACTCTTAGAAGATGGATAGCTTCTCTTTTGCTGTGGGTGTGGCCACAAAACGTTT |
| co3_10143386_x1 | CM000683.2/44439035-44439110 | 14 | 0.008 | 28.2 | 1 | TGTTGACCTGCCTCCGTCCTCTGTCTGTCCAGGGCTCCCGGGAGCCAGGGGAGATGCTACCTCGGAAGCTGAAGCG |
| co3_10145116_x1 | ENST00000408166.1 | 14 | 0.008 | 28.2 | 1 | ACCAAGATTCAAGTCACATTCCGAGTGTCCCGGTGTGCTAGGGCACTTGCAGAGAATCTG |
| co3_10145687_x1 | ENST00000459613.1 | 14 | 0.008 | 28.2 | 1 | ATTGGTTGAAAATCACCCCCCGGCTTTGGCCATGGCAGCGGGTGAGATTCGGCGCCCAGA |
| co3_10155696_x1 | CM000665.2/163178975-163178874 | 14 | 0.009 | 28.2 | 1 | GTACTTTTGTGGTTCATAAGTGTGATATATGAGTTTTCATGCTCATGTATGAGATGTGCCTCCCTCAAAGCTTAGGACTTCAGCACATTGCCTAATACGAAA |
| co3_10155821_x1 | ENST00000620099.1 | 15 | 0.003 | 30.2 | 1 | TTTATCAATGGCATGATTTTAAAGCTGTTTCACCCGAGTACACAGCAGGGAAGCCATCCT |
| co3_10156256_x1 | CM000666.2/183582301-183582195 | 15 | 0.004 | 30.2 | 1 | ATTCTTTTTTGGTTCATAAGTGTGATGATTTCGTTTTCATGTTAAAGTGTGAGATCAGCCTCCCTCAAACCTTGTTACTACATCAACACCACATTATCCATCCAATG |

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|---|---|---|---|---|---|---|
| co3_10160679_x1 | ENST00000362987.1 | 16 | 0.0005 | 32.2 | 1 | CATCTGTGATTATCCTATTCTGAACCTGAATTTCTACTAGAAAAAACTTATATGAATCTG |
| co3_10176372_x1 | KV880768.1/1215368-1215471 | 15 | 0.006 | 30.2 | 1 | ATCCTTTTGTAATAGATAAGCATAATGATTGGGTTTTTATGTTCACATGTTTGATATGCCTCCCTCAAATCCTCTTATGATGTCGGCACATGACCCATCTGAGG |
| co3_10179296_x1 | CM000675.2/20969318-20969416 | 15 | 0.006 | 30.2 | 1 | ATCATTTTGTACCTTTTAAGCATGACCATTGGGTTTTCACACTCATATGGGAGGTGCCTCCCTCAAACTTTGTTACATTGGCACATGACTCATCTGATG |
| co3_10184894_x1 | CM000683.2/39345457-39345351 | 15 | 0.005 | 30.2 | 1 | ATCCTTTCATAAGCTTGAAGATTGGGGTTTCACGCTCATGTGTGAGATGTCCCTCTCTCAAACCTTACTATGAAGTCAGCACCACTGGGCACATTACTTGTCTGACA |
| co3_10186261_x1 | ENST00000363280.1 | 18 | 0.009 | 28.2 | 1 | TGAATCAATGGTGACCACTGGTGGCATATAAGTCATGGATGATGAATATGAGAAGAAAAG |
| co3_10196913_x1 | ENST00000515895.1 | 19 | 0.004 | 30.2 | 1 | CAGACTTACAGATAAGTTCGAGAAATAAACCCTGTTTTGCAACCCAGAGCACATTGTTCA |
| co3_10197121_x1 | ENST00000391112.1 | 15 | 0.004 | 30.2 | 1 | ATACTATGATGGTTGCATAGTTCAGCAGATTGAATTCATGAAGAGATTTACAATGTCTGA |
| co3_10198179_x1 | CM000663.2/17449763-17449863 | 15 | 0.003 | 30.2 | 1 | ACACTTATGTGGTTCATAAAAGTGATTGAGTTTTCATGTTCATGTGTTGAATGTGCCTCCCTCAAACCTTGTTAAGTCATCAGCACATTACCCATTTGATG |

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|---|---|---|---|---|---|---|
| co3_10200244_x1 | CM000669.2/138176154-138176282 | 15 | 0.002 | 30.2 | 1 | ATCTTTTTGTAATTCCTAAGCATGATGGTTGATTCGGCTCTCACACTTGATGATTGGGCTTTCACTTGGATCTGTGAGATGTGCCTCCCTCAACCCTTCCTGCGAAGTCAGCACATTACCTGACAGAAA |
| co3_10201741_x1 | ENST00000384231.1 | 15 | 0.004 | 30.2 | 1 | CTGCAGCCAATTGAGTTGACCGAGCTCTTTTCCTCCTGGGGGCTTGGTGTGCAATGGCTG |
| co3_10202035_x1 | AC009228.4/59361-59234 | 14 | 0.009 | 28.2 | 1 | UGGCAUGAUUUCCUGCAGGUUGAGCUCAGCCAAGUACCACCCCUCAGUAAGCCUAGAGUAGAGGGGCCUGACAUCCUUUCCUUAAAUUAAACAAGGAGCCUUAUCCAGGUUGUCCUAGUCUCAUACUU |
| co3_10202388_x1 | ENST00000391291.1 | 20 | 0.0006 | 32.2 | 1 | CACTAGAAGACAGAATTCACAGAAGTAGCATTTCACCTTTTGCCTTTACAGAAGTATATT |
| co3_10205575_x1 | ENST00000516035.1 | 17 | 0.0002 | 34.2 | 1 | TTTCTATTTTATCTGATTCTTCCTCTATGCACAAACTCAGCTTCAGTCATTAGTATCATT |
| co3_10205607_x1 | CM000671.2/94233478-94233581 | 14 | 0.009 | 28.2 | 1 | ATCCTTTTGTATCTCATAAACATGATGATTGGGTTTTCACACACACATGTAAGATGTGTCACCATCAATCCTTGTTATGACATCAGCACATTACCCATCTAACA |
| co3_10207715_x1 | CM000663.2/173660200-173660097 | 14 | 0.008 | 28.2 | 1 | ATCCTTTTGTAATTCATAGGTGTGATTATTGGGTTTTCATGCTCATGTGTGAGAGGTACCTCCTTCAAACCTTGTTACAACACGGGCACATTTCCTGTCTGTTG |
| co3_10208128_x1 | AC011120.11/127524-127388 | 19 | 0.005 | 30.2 | 1 | CAGACAUUCAUUUUUAUCCAGUUUCUUCUCAAAGUGAAGAUAACUUUUUGUAAAUGUCCUAAAGUCAUGUAGAAUGUAGUAGCUUUCUGUUCACACUGUACAAAUAAAAAGGAUGGAUCAUUCUACAACUGACAUUA |
| co3_10214535_x1 | ENST00000516632.1 | 20 | 3E-06 | 40.1 | 1 | AGGGGTGGTCTCCTCCCTTACTCTTTGGGAACTCAGATTGGCCTTATGGTGGCCTCTCTT |

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|---|---|---|---|---|---|---|
| co3_10216520_x1 | CM000665.2/86125216-86125287 | 14 | 0.008 | 28.2 | 1 | AAATGTTATGATATGAGCAAAATGTTCAACTATTCCAAATGGGCTGAGTGAAAATAGGTTTTCTGAGCATCC |
| co3_10217693_x1 | CM000677.2/91835379-91835476 | 14 | 0.008 | 28.2 | 1 | CTCCTTTTGCGGTTTATAAGCATGATGATTGGGTTTTCATGTGTGAGATGTGTCTCCCTCAAATCTTTTTATGAAGTAGATGCATTGTCTGTCTGACA |
| co3_10217729_x1 | CM000672.2/68712958-68713055 | 14 | 0.008 | 28.2 | 1 | ATCTGTTTGTAGTCATAATTGTGATGGTTGAGTTTTCATGTGTGAGATGTGTATCACTCAAGCCTTTTTACAATGTCGGTATATTGCCGGGTGCGGTG |
| co3_10223655_x1 | ENST00000459350.1 | 24 | 0.0009 | 32.2 | 1 | ATCCTTTCACAGTTCATAAGAGTGATGACTGGGTTTTCACTTTCATGTGTAAGATGTGCC |
| co3_10229144_x1 | CM000665.2/32172656-32172755 | 15 | 0.008 | 30.2 | 1 | ATCCTTTTGTGGTTGATAAGTGTGATGATTCAGTTTTCATGCTCATGTATGAGATGTGCCCCCAATCAAACTTGTCACAACATCTGCTTATTATCAGACA |
| co3_10231700_x1 | AC004830.1/58886-58743 | 14 | 0.008 | 28.2 | 1 | CUAUCAAAAGUUACUUUUUGUGGGGUGGAAGUUUUUAAAAUAACCUUUACCUACGUGGGCUGUUUUGGAAAAUAAAGAAAAGACCACACUCAGCAGAGGGCUAUACCCCUUAGUAUAGUUCACCACUAUUUUGCAGCUUAUAUU |
| co3_10234184_x1 | ENST00000365509.1 | 15 | 0.003 | 30.2 | 1 | ATAAACAAAAGAACACCAATTGTGCTCCTTTCCTCCTGGGGCCCAGTGTGCAATGGCTGC |
| co3_10239247_x1 | ENST00000517184.1 | 15 | 0.004 | 30.2 | 1 | TGGTTTAAAGCCAACTCTGGGCTCCCATCAGAAGGAAGGAGATGAATGCTATGACCAAAG |
| co3_10239584_x1 | ENST00000391177.2 | 14 | 0.008 | 28.2 | 1 | AAGACGACGCTTGCAGGGATTGTTTCTATAGCTCACTACCAGATAAGTTTCTCCGAACAT |

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| co3_10241922_x1 | AJ609472.1/1-140 | 15 | 0.006 | 30.2 | 1 | UUUCUCAUUUGACUACCACAUUUUCUCCUAAUAAUAGAUUUUAGUGGCUAUGCUUAUGGGAUAGAUUAAACUUGCCAUGAUCUGAAGAGGGAGGGUUUUUUCAUGUCCUCCUCCUAUAUGAAAUGGCUGAACGGAUAUUA |
| co3_10243836_x1 | ENST00000459141.1 | 16 | 0.001 | 32.2 | 1 | TCCTCACATGGGATAATTTTTACTTTATTCTCCCTTTGGAGGTCAGGTTAAAACAAGATT |
| co3_10245707_x1 | CM000663.2/28689665-28689794 | 31 | 2E-05 | 38.2 | 1 | TGGACATTTATTTTTATTCAGTTTTTTCTCAAGGTGAAGGTAACTGTTTGTAGATGTCCTAGAGAAATATTGTAGCTTTCTGTTCACCCTTTGCAACTAAAAAGCATGGACTGTTCCACTACTGAGATTT |
| co3_10251860_x1 | ENST00000607707.1 | 27 | 2E-10 | 54 | 1 | TGATGGCAATGATGATTTTTACACTTATTGTTGTTCACCTGATAACATAAATATGAGGGT |
| co3_10252753_x1 | CM000667.2/56857140-56857251 | 14 | 0.008 | 28.2 | 1 | AACATTTAATTGCAGTAATTCATAAGTGTAATGATTGGGTTTTCACATGCATGCATAAGATGTGCGTTTCTCCAACTTTGTTACAGTGTCAGCATGTTATCCTCATTTGACA |
| co3_10255235_x1 | ENST00000516543.1 | 24 | 0.001 | 32.2 | 1 | TGGACAGACGCAAAAAAACAAATCCTCATTTGCAACCCAGAACTAATTGTTTAGTATGAT |
| co3_10258655_x1 | ENST00000391302.1 | 15 | 0.006 | 30.2 | 1 | TGCCCCTGACCTGGGAAGAGAGGGGCCTGGCTGGTGGTATCCATCTCATACCAGCTAGGG |
| co3_10261942_x1 | ENST00000390991.1 | 15 | 0.003 | 30.2 | 1 | AATTGGGATCAAAGATGCAGCCGCCTTCCCATTTAAGCAGCACAGACAGCCCAAAGTGAC |
| co3_10262949_x1 | CM000667.2/119469055-119468959 | 15 | 0.003 | 30.2 | 1 | ATACAATGAATAAAGTGTGATGACTGAGTGTTCACACTCGTGTAAGATATGCCTCCCTCAAACGTTGTCATGAAATAAGCACATTGCCCAACTGATA |
| co3_10266412_x1 | ENST00000516741.1 | 14 | 0.008 | 28.2 | 1 | AGGTCATTTCAAAGAAGGTTCACGTGGCTGTGAGACCAAGAACGCTTAATGCTGTTACCA |

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|---|---|---|---|---|---|---|
| co3_10269083_x1 | CM000664.2/156410246-156410144 | 14 | 0.009 | 28.2 | 1 | ATCCTTCTGTAGTTTATAAGCATGATGACTGAGTATTCACCCGCATGTGTGAGACGTGCTGCCCTTAAACTTTGTTATGGTGTCACACACTGCTAGCCTGAAA |
| co3_10270133_x1 | ENST00000583496.1 | 14 | 0.009 | 28.2 | 1 | TGTTGACCTGCCTCCGTCCTCTGTCTGTCCAGGGCTCCCGGGAGCCAGGGGAGATGCTAC |
| co3_10270347_x1 | ENST00000391288.1 | 17 | 0.0005 | 34.2 | 1 | GCACCCCTTTAAGGCTGATGCAATGCTTTAAGAGGCTAACGCAGAAGGGTGAAGCCAGTC |
| co3_10271082_x1 | CM000666.2/40868970-40868864 | 19 | 0.008 | 30.2 | 1 | ATCTTTTAGTAGTTCGTAAGCATGGTGATTGGCTTTTCATGTGCATGTGTGAAATGTGCCTTCCACAAACCTTGTTACAAAGTTGGCACACTACCATTGATGTGAAA |
| co3_10272949_x1 | ENST00000408876.1 | 14 | 0.008 | 28.2 | 1 | TGCCCAGTGATGACACCATCCTTGCTCCCCGTGCCCCCCAGGGGCTATGGGCGACACCAT |
| co3_10285387_x1 | CM000665.2/47088608-47088747 | 15 | 0.003 | 30.2 | 1 | ATCCTTTATGGTTCATAAATATGATGAATGGGTTTTCACGCTGCTGTGTGAGATATATCTCCTTCAAACTTATATAATTTATATGTTATAATATATAATGACCTTTTTATGATGTCAGCATATGAATGACCCAGCTGATA |
| co3_10285925_x1 | CM000681.2/44764976-44765100 | 14 | 0.009 | 28.2 | 1 | ATGAACACTAGTCAAGCTAATTGTGCTCCTCTCCTCCTATGCAGTGGCGGCAAACAGCAGTGCCCTCAGTAGTATACGCAGCCTGCTGCGTGTAGCGGTGGCCTTAAGAGACCTTGGAGATAGCC |
| co3_10294448_x1 | ENST00000364939.1 | 16 | 0.0005 | 32.2 | 1 | TCATCAGGTGGGATAATCTTTTCCTGTTCTTCCTTTTGGAGGACAGATTATAACATGATT |
| co3_10313284_x1 | CM000665.2/175739271-175739376 | 15 | 0.002 | 30.2 | 1 | ATCCTTTTGTGGTTCATATTTGTGACGATTCGGTTGTCAGGCCAATGTGTGAGATTTACCTCCTTCAAACCTTGTTAGCACATTGGCACATTTCAATTGTCTGACA |

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| co3_10315001_x1 | ENST00000516717.1 | 15 | 0.004 | 30.2 | 1 | AAGACCCTTCAGCTGCAAACAACAGCTTCCTTGGTAGTTTATGCAGCCTGTTTCTTGTAT |
| co3_10315048_x1 | ENST00000390977.2 | 19 | 0.002 | 30.2 | 1 | ATACTGTGACAGTTGCATCGTTCAGCAGATTGAGTCACGAAGAGATGTATACCATCTGTC |
| co3_10336492_x1 | ENST00000364461.1 | 15 | 0.006 | 30.2 | 1 | GGGTCAATGATGAGAACCCTATATTGTGTTGAAGAGAGGTGATGACTTAAAATTACCATG |
| co3_10369114_x1 | ENST00000365391.1 | 14 | 0.008 | 28.2 | 1 | GGGTCAATGATGAGAACCTTATATTGTCCTGAAGAGCGGTGATGACTTAAAAATCATGCT |
| co3_10369599_x1 | ENST00000579216.1 | 14 | 0.009 | 28.2 | 1 | GCCGTGTGAGGCCACCTCTGCCATGCTGCAGGCTCCCCAGCACGCAGTGGGGAACCCAAC |
| co3_10369974_x1 | CM000680.2/3811317-3811420 | 14 | 0.009 | 28.2 | 1 | ATCCTTTTGTGGATCATAATCATAATGATTGAGTTTTCACAGTAATATATGAGATGTGCTTCCTTCAAACCTTGTTATGATGTTGGCACACTATCCGTCTTACA |
| co3_10378998_x1 | ENST00000516013.1 | 15 | 0.003 | 30.2 | 1 | GTGCACATTGTTACATTGGGAGAAAAGATATTTCTGATGTGATGAATAAATTTTTGGAGA |
| co3_10384031_x1 | ENST00000391082.1 | 19 | 0.006 | 30.2 | 1 | ATAGCCAATCATTAGTATTCTGAGCTGTAGGAATCAAAGATTTTGATTAGATTCTGTAAC |
| co3_10384818_x1 | ENST00000364840.1 | 19 | 0.002 | 30.2 | 1 | TAGAACAACGATAACAAATAGTAGTGCAGGAGTCATAAACTATGAGTAATATGTGTGTGG |
| co3_10385811_x1 | ENST00000363931.1 | 16 | 0.001 | 32.2 | 1 | GGGTGGTGATGAGAACCTTGTATTCTTCTGAAGAGAGGTGATGACTTAAAAACCATGCTC |
| co3_10400973_x1 | CM000672.2/29575306-29575381 | 18 | 0.009 | 28.2 | 1 | AGGCCAATGCTGAATTATTATCTTGACGAGAAATGATGACGTAAAAATTAAGCTTAGTAGGATTACACTGAGGCCC |

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|---|---|---|---|---|---|---|
| co3_10402151_x1 | CM000667.2/150029452-150029349 | 14 | 0.008 | 28.2 | 1 | ATCCTTTTATAGCTCACAAGTATGACAATCTGGTATTCATGCACATGGGTGAGATGTGCCTCCCTCAAACCTCATTATAACGTCAGCACATTACCCATTTGACA |
| co3_10402483_x1 | ENST00000458908.1 | 15 | 0.004 | 30.2 | 1 | TAGCACTGTTGCCTGAGCCATTGGTGCTCCCTGGTACTAGCTCAGTTTTAATGCAGTGCA |
| co3_10409940_x1 | ENST00000516634.1 | 14 | 0.008 | 28.2 | 1 | GATTCACAGCAGAAAGACAGCTAATCTAGTGTGCTAGCTGTAGAGCAAGTTTGCTGCAAA |
| co3_10417757_x1 | CM000666.2/185946083-185946186 | 16 | 0.0006 | 32.2 | 1 | ATCCTTTTGGGGTTGATAGGTGTGATGATTGGGTTTCTATGCATGTGTGTGACATGTGTCTCCCTCAAAGCTTGTTACCACATCCGTACAGCACCCATAGGATG |
| co3_10420620_x1 | ENST00000363205.1 | 16 | 0.0006 | 32.2 | 1 | AGGATATATCAAAGAGACTTTCTGGGGCTGGGAAACCAGGATCTCGTAATGCTATGACCA |
| co3_10421255_x1 | ENST00000364393.1 | 22 | 0.0001 | 36.2 | 1 | TGGATCAATGATGTCCACTGGTGGCGTATAAATCATATTTGGTGAATATATGTCTGGAAC |
| co3_10423027_x1 | ENST00000516213.1 | 17 | 0.0001 | 34.2 | 1 | CCACACAGGACGAAGGGTAGATATACTTGTACCAAATGAATGTTCAGCAATCTGAGATAA |
| co3_10431164_x1 | ENST00000365075.1 | 15 | 0.005 | 30.2 | 1 | CTACAGCCAACTCAGCTGGCTGAGTTCCTCGCCTCATGGGGGACGTGTGCAATGGCTGCA |
| co3_10431979_x1 | ENST00000363723.1 | 19 | 0.004 | 30.2 | 1 | GGGTCAATGATGAGAACCGTATATTGTCCTGAAGAGCGGTGATGACTTAAAAATAATGCT |
| co3_10436715_x1 | ENST00000458953.1 | 15 | 0.005 | 30.2 | 1 | AAGCATGGCACACTGGATGGGCGTTCTGCTTCTCTTTAAAGAGCATGGATTTATCCATAC |

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|---|---|---|---|---|---|---|
| co3_10463514_x1 | ENST00000516069.1 | 15 | 0.003 | 30.2 | 1 | TTATATTAGTGATGGCTTTTAAAGTTCTCACAGACAGGCATCTCTCTGAAAGACAGCGAA |
| co3_10464412_x1 | ENST00000516831.1 | 41 | 0.0005 | 34.2 | 1 | TAGTGTGGAACTGTCTACTCCTCATTCCTGTGGAAGCAGGAATACATTCATAACATGCTC |
| co3_10467234_x1 | ENST00000516395.1 | 36 | 0.001 | 32.2 | 1 | ATGACCTGTGAAACCAAGGGCTCCTAATGCTATGACCAAAGACTGAAGCTCTCTATGAGA |
| co3_10468026_x1 | CM000679.2/18146552-18146651 | 15 | 0.003 | 30.2 | 1 | ATTCTTTTATAGTTTATAAGTGTGATGATTGAGTTTTCATGCTCAGGCATGAGATGTGTCACCCTCAAACCTTGCTAAAACATCAGCACAAGACCAGACG |
| co3_10469588_x1 | ENST00000390982.1 | 15 | 0.003 | 30.2 | 1 | TCAATAATGAAATCTTCTGATTTGGTGAGAAATAATGCCTTAAAATTACACTCAATAGGA |
| co3_10470423_x1 | CM000672.2/99601780-99601880 | 19 | 0.002 | 30.2 | 1 | ATCCTTTTGTAGCCCGTGAACATGATGATTTGGGTTTTCACACACATGTGAGATGTGCCTCCTTCAAACCTTAAGACATCAGCATGTTACCTGACGTGAAA |
| co3_10471981_x1 | CM000681.2/38349110-38349009 | 15 | 0.003 | 30.2 | 1 | ATCTTCTTGTAGTTTCTACGTGTGGCGATTGGGTTTTCACCGTCATCTGAGATGTGTCTCCCTCAAGCCTTGTTATGGTGTCGGCCCATTACCTGTCTGACA |
| co3_10474175_x1 | ENST00000411095.1 | 20 | 0.0007 | 32.2 | 1 | CCTCATTTTCTTGGCAGGAACTTGTAGTCCCACTCCCTGTTATGTACAGAGGCAAAGGGA |
| co3_10486821_x1 | CM000677.2/45710815-45710873 | 14 | 0.008 | 28.2 | 1 | AGAGTGCTGGTGGCTGATGAGCCCAGGGCTGCTCTTGCTCACTTTGCTGACAGCACTCG |

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| co3_10486979_x1 | AL132709.5/142597-142509 | 18 | 0.009 | 28.2 | 1 | UGGACUGUUGAUGACAAGUGGUGGCUUAUGUGGUUGUACAUGCUGGUUGUAUAUGAAGAAUAUUACAUAUCUGAAACUUUGAGGUCCAA |
| co3_10516611_x1 | ENST00000364672.1 | 14 | 0.009 | 28.2 | 1 | AAGGCAGCATTGTTGTAGATGATTTGAAAGATTTTAAAAGGTATAAGCTCACAAGTGTAG |
| co3_10521466_x1 | ENST00000391130.1 | 14 | 0.009 | 28.2 | 1 | GCCATGATGCTCTTCGGTTTAGGAGCAATTAAAATGACTACAGATTGGTGGCAGTTTATG |
| co3_10533341_x1 | CM000682.2/35716471-35716570 | 14 | 0.008 | 28.2 | 1 | AAATTTTAGGAGTACCTAAGTGTGATGATTTGGTTTTCACATTCATGTGTGAGCTGTGCCTGCCTTTTGTTACAAGGGCATATTACCCTTTGTTGTGAAA |
| co3_10534332_x1 | ENST00000517095.1 | 16 | 0.001 | 32.2 | 1 | TCACATTTTATCAACCAAATGAATTAGGGAAAAAAGTTCATGCCCAGGGGTGAGACTATA |
| co3_10548984_x1 | CM000663.2/11169613-11169507 | 14 | 0.009 | 28.2 | 1 | ATCCTTTTGTATACATTTATGCATGATGATTGGGTTTTTACCATCACATGTGGTGAGATGTGTCTCCCTCAAACTTGTTATCACGTCAGCATGTGATCAGTCTGACA |
| co3_10549560_x1 | ENST00000517015.1 | 39 | 0.006 | 30.2 | 1 | CATCTCCTATCAGTCAGGGATGAAGCAATCCCTTGTTCATCCCCAGCTTGGCTTTTGATC |
| co3_10559256_x1 | ENST00000363367.1 | 15 | 0.005 | 30.2 | 1 | CTACAGATATTTTCTGAATTGGCAAGTCCACCAAGAAACTATAAAAATGTGTGTGTGCAA |
| co3_10564810_x1 | ENST00000410672.2 | 14 | 0.009 | 28.2 | 1 | TACTTCCAACTCTAGGATAGCATCATGCAATAAGAAAAGTATGACAGAGGTACCCATTCC |
| co3_10568728_x1 | ENST00000408792.1 | 19 | 0.007 | 30.2 | 1 | GCCGAGACTAAGTCGCATGCTGACACAGCTCTTGGTGTGCTACGGTACTTGGAGAGAATC |

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| co3_10574026_x1 | ENST00000516664.1 | 15 | 0.005 | 30.2 | 1 | ACCCAGGGGGTTCCCTCTCAGGGGACAGTTCGTATACTCAAGAATGTGGCCACTTGGAGA |
| co3_10598609_x1 | ENST00000516113.1 | 16 | 0.0006 | 32.2 | 1 | ATGCATCTTAGAACATCCAGGAGACAGTCTTCTAAAATACCAGTGAGTGGCAAGATATGA |
| co3_10606757_x1 | ENST00000459339.1 | 15 | 0.004 | 30.2 | 1 | CTGTGTGTAGAAATGTTTGCTCCTCTATCCTTTGGGAACAGGAATACATTCATAACATGC |
| co3_10618223_x1 | CM000679.2/79713731-79713826 | 14 | 0.008 | 28.2 | 1 | ATCCTTCTGTGGCTGATATGTGTGATGAGGGGGTTTTCACACTCTTGCGTGGGACGTGAAACGTCTTTAGAACAGTGGCACGTTACCTGTCTTACA |
| co3_10630550_x1 | ENST00000364540.1 | 15 | 0.004 | 30.2 | 1 | AAATGTTATGATATGAGCAAAATGTTCAACTATTCCAAATGGGCTGAGTGAAAATAGGTT |
| co3_10631794_x1 | CM000680.2/22901626-22901524 | 15 | 0.005 | 30.2 | 1 | GTTCTTTTGTGTTTCATAAAGTAATGATTGTGTTTTCACATTATTGTGTGAGGTGTGCCTCCCTCAGACCTTGATACCAGTCTGCACATTACCTGATGTGAAG |
| co3_10657483_x1 | ENST00000362326.1 | 15 | 0.002 | 30.2 | 1 | AGATAACTTCAAAGAGGGCTTGCGGAGCTGCAAAACCAAGAGCTTTTAATGTATTACTGA |
| co3_10658573_x1 | CM000665.2/101201832-101201935 | 15 | 0.007 | 30.2 | 1 | ATTCTTTTGTGGTTTATAAGCATAATGGTTGGGTTTTTATATGCATGTGTGAAATGTACTTCCCTCAAACCTTGTTACAATGTCAGCACATTACCCACCTGACA |
| co3_10660956_x1 | CM000665.2/197339551-197339457 | 16 | 0.0007 | 32.2 | 1 | AGTCTTTTGTAGTTTGCAAGCATGATGATTCGGTTTTGAGAGGTGCCTCCCTCAAACCTTGTAGACGTCGTCATCGGCACATTACCTGCCTGATG |

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| co3_10671950_x1 | ENST00000607153.1 | 19 | 0.004 | 30.2 | 1 | AGGTGATTTCAAAAAGGACTTGTGGGCTGTGAATCCAGGCACTCAACACTTTGAAAGTCT |
| co3_10697710_x1 | ENST00000459014.1 | 31 | 3E-10 | 54 | 1 | GTTGGTTGAAAATCACCCCCGGTTTTGGCCGTGGCCGCGGGTGAAATTCGGCGCGCAAGA |
| co3_10698029_x1 | CM000664.2/64908686-64908587 | 15 | 0.003 | 30.2 | 1 | ATCCTTTTGCAGTTATGCATAATGACTGGGTTTTCACGCTTATGAATGAGATGTGCCTCCCTCAAACATTGTTATATGTCAGCACATTATGCATCTGACA |
| co3_10707122_x1 | ENST00000391263.1 | 16 | 0.0005 | 32.2 | 1 | GTCGCACTTAAACTTAAGACTCTTTTTCTTGCAGCAGTGGTTTAAACAGAGGAACAAACA |
| co3_10726530_x1 | ENST00000517079.1 | 19 | 1E-05 | 38.2 | 1 | ATGCCTCTATTTGACACATGAAACAGTTACTGCCTGCTGCTATGGTTTCCACTACAGATG |
| co3_10735735_x1 | ENST00000516361.2 | 14 | 0.008 | 28.2 | 1 | TGGACCAATGATGAGAGCATGTCACAAAACAAGGCTTATGATTAATCCAGTTCTGTACAC |
| co3_10742577_x1 | ENST00000411034.1 | 15 | 0.002 | 30.2 | 1 | AGTTCCTTGGAAGTTAAAGGTTAAGCTTAAGGACTGATTCAAAGGCAGGTGCAAAAAATA |
| co3_10757644_x1 | CM000679.2/67407946-67407843 | 14 | 0.009 | 28.2 | 1 | ATCCTTTTGTGGTTCACAAGCACAGCGATTGGGTTTTCACACTCATGTCTGAGATGTGCCGCTCTCAAACCTTACTATGACATCAGCACATTGCCTATCTGATG |
| co3_10766965_x1 | ENST00000516029.1 | 20 | 0.0007 | 32.2 | 1 | CTTCTGCTAAGGTTTACACTATAGATGCAGGAAAAAAAATGTCCTCACACTGTCTGTCTG |
| co3_10771144_x1 | ENST00000391109.1 | 16 | 0.001 | 32.2 | 1 | AGGCCAATGCTGAATTATTATCTTGACGAGAAATGATGACGTAAAAATTAAGCTTAGTAG |

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| co3_10775197_x1 | ENST00000364263.1 | 16 | 0.0007 | 32.2 | 1 | CTATCAAAAGTTACTTTTTGTGGGGTGGAAGTTTTTAAAATAACCTTTACCTACGTGGGC |
| co3_10805386_x1 | ENST00000516303.1 | 15 | 0.002 | 30.2 | 1 | GTGTTTAGAAGACCACATCTTCATCCTGAAAGCACAGATGTGTGGAAACCAATGACCGAG |
| co3_10815734_x1 | CM000664.2/179125637-179125536 | 15 | 0.006 | 30.2 | 1 | ATCCTTTTGTAGTTTATAAGCATGATGATGGGTGCTCACACTCATCTGAGATGTGTCTCCCTCTAAGCCTTGTAACAACATCAGCACGTTACCCTTCTGATG |
| co3_10818840_x1 | ENST00000516349.1 | 16 | 0.0008 | 32.2 | 1 | TTGTGGGTATAACATTCACTATATTAAGATCATGCATGTGCCCCCAAACCTAATTCTTTT |
| co3_10851764_x1 | ENST00000391227.1 | 15 | 0.007 | 30.2 | 1 | CCTCGCTTTCTTTGCAGGGAGCAGGTATGTATGTTCCCTATTATGTCTGGAGGCAGAGGG |
| co3_10860635_x1 | ENST00000516421.1 | 15 | 0.006 | 30.2 | 1 | TTTCCAGAATTACGGGTTTGACAAACCAAACATTCATTATTTTCCTCTCTAGAGAGAGTT |
| co3_10861041_x1 | ENST00000391265.1 | 14 | 0.009 | 28.2 | 1 | CCTCCTTTTCTTGTCAGGGACTGAGTGTGTGGTCCTGCTCCTGTTATGTATGGAGGCAAA |
| co3_10872963_x1 | ENST00000410213.1 | 14 | 0.009 | 28.2 | 1 | TCAGCTTGAGTCACTCTTCCCAGGCTTTATCCAGGTGGCTTAGGTTAGCTAGGGCTGTGT |
| co3_10878069_x1 | ENST00000517204.1 | 19 | 0.004 | 30.2 | 1 | ATGCACCCATTTGACTAACTTGCAGCAGCTAATGTCTGCTGCCAAGGTTTCCTCTCCAGA |
| co3_10893412_x1 | ENST00000516965.1 | 16 | 0.001 | 32.2 | 1 | TTACCTTGAATACATACAGATACTTCCTGTTACTCTCTAGCTTAAGAACCTTTAATGTGG |

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| co3_10899850_x1 | ENST00000459326.1 | 16 | 0.001 | 32.2 | 1 | GCCCAGGGTATGTTCACGGGGCGATGCTGCCCTCCCAGCTGGCCCATGGGTGACCCTGGG |
| co3_10905384_x1 | ENST00000515921.1 | 17 | 0.0003 | 34.2 | 1 | CTATCTAGCAAAATTTGGTTTAGAGGGAAAGTTTATAGTAGACTTTGCCAGCTGAAGTTG |
| co3_10948961_x1 | ENST00000391078.1 | 15 | 0.007 | 30.2 | 1 | GGGGCAATATGGAGATGTTATATTGTCTTCGACAGGGAAGATGACATAAAAATTATGTTC |
| co3_10957393_x1 | ENST00000364523.1 | 14 | 0.009 | 28.2 | 1 | CCCTATATTCGAAAGTTATCCTGGTCATTGACAGTGCAGGGAGAGAAACTGCTGAAAGCA |
| co3_10961095_x1 | ENST00000365306.1 | 16 | 0.0005 | 32.2 | 1 | GGGTCAATGAGAACCTTATATTGTCCTGAAGAGAGGTGATAACTTAAAAATCATGCTCAA |
| co3_11015004_x1 | CM000667.2/133850957-133850857 | 14 | 0.009 | 28.2 | 1 | ATCTTTTGTGTTTCCTAAGTGTGATGATTGAGTTTTCAAACTCACTTGAGGTGTGCCTCCCTTAAACCTCATTATGACATCAGCATATTACCCATCTGACG |