

Supplementary Material

Table S3: Distribution of Blast+ alignments grouped by number of hits. Number of reciprocal hits returned by Blast+ but counted in only one direction. (*) Alignments in which the coverage to identity ratio is above 80%. All: sum of String, Psibase and Intact. Blast Total: equal to All multiplied by Hits, adding up to 812,907 Blast+ hits in one direction or 1,625,814 if reciprocal hits are counted. Contribution: number of distinct identifiers found in alignments with x number of hits, also considering that these identifiers are not found in the sets of identifiers found with x-1 or less hits.

Hits	Blast1	String	Intact	Psibase	All	All(*)	Contribution(*)	Blast Total
20		19,229	4,592	5398	29,219(0.718%)	4,169(0.414%)	326(0.0140%)	584,380
19		486	732	212	1,430(0.033%)	135(0.012%)	14(0.0006%)	27,170
18		228	570	197	995(0.022%)	150(0.013%)	14(0.0006%)	17,910
17		169	585	192	946(0.019%)	166(0.014%)	16(0.0006%)	16,082
16		160	538	273	971(0.019%)	220(0.017%)	16(0.0006%)	15,536
15		175	509	197	881(0.016%)	253(0.018%)	26(0.0011%)	13,215
14		146	574	222	942(0.016%)	333(0.023%)	36(0.0015%)	13,188
13		174	565	223	962(0.015%)	357(0.023%)	42(0.0018%)	12,506
12		161	588	272	1,021(0.015%)	378(0.022%)	60(0.0025%)	12,252
11		168	629	256	1,053(0.014%)	365(0.019%)	44(0.0018%)	11,583
10		175	616	336	1,127(0.013%)	375(0.018%)	38(0.0016%)	11,270
9		163	725	294	1,182(0.013%)	347(0.015%)	73(0.0031%)	10,638
8		244	788	407	1,439(0.014%)	954(0.037%)	540(0.0231%)	11,512
7		365	891	344	1,600(0.013%)	1,501(0.052%)	163(0.0070%)	11,200
6		319	1,068	437	1,824(0.013%)	835(0.024%)	154(0.0066%)	10,944
5		244	1,079	401	1,724(0.010%)	1,167(0.029%)	238(0.0102%)	8,620
4		187	1,250	604	2,041(0.010%)	1,735(0.034%)	439(0.0188%)	8,164
3		99	1,471	522	2,092(0.007%)	2,110(0.031%)	783(0.0336%)	6,276
2		116	1,843	828	2,787(0.006%)	5,418(0.053%)	3,413(0.1036%)	5,574
1	47,949	420	3,474	993	4,887(0.006%)	24,371(0.121%)	17,845(0.7665%)	4,887
Total hits						200,970	23,280(0.98%)	812,907