

Location	Island ID	Sample	NanGene ID	Gene Start	Gene End	Strand	NR Descrip
Chromosome	GI01	BP	gene1358	1363813	1364253	+	YxxD
Chromosome	GI01	BP	gene1359	1365291	1364341	-	glycoside
Chromosome	GI01	BP	gene1360	1366130	1366243	+	hypothetic
Chromosome	GI01	BP	gene1361	1366654	1366322	-	MULTISPECI
Chromosome	GI01	BP	gene1362	1368108	1366666	-	MULTISPECI
Chromosome	GI01	BP	gene1363	1368162	1368500	+	MULTISPECI
Chromosome	GI01	BP	gene1364	1368778	1368578	-	hypothetic
Chromosome	GI01	BP	gene1365	1368830	1369018	+	hypothetic
Chromosome	GI01	BP	gene1366	1369074	1369367	+	RecName: F
Chromosome	GI01	BP	gene1367	1369383	1369646	+	MULTISPECI
Chromosome	GI01	BP	gene1368	1369698	1370777	+	MULTISPECI
Chromosome	GI01	BP	gene1369	1371000	1370812	-	MULTISPECI
Chromosome	GI01	BP	gene1370	1371834	1371019	-	MULTISPECI
Chromosome	GI01	BP	gene1372	1372567	1372746	+	MULTISPECI
Chromosome	GI02	BP	gene1963	1923922	1924386	+	MULTISPECI
Chromosome	GI02	BP	gene1964	1925026	1924637	-	MULTISPECI
Chromosome	GI02	BP	gene1965	1925528	1926664	+	MULTISPECI
Chromosome	GI02	BP	gene1966	1926654	1926791	+	MULTISPECI
Chromosome	GI02	BP	gene1967	1926994	1928793	+	GHH signat
Chromosome	GI02	BP	gene1968	1928814	1929146	+	hypothetic
Chromosome	GI02	BP	gene1969	1929582	1930028	+	sigma-70,
Chromosome	GI02	BP	gene1970	1930248	1931162	+	hypothetic
Chromosome	GI02	BP	gene1971	1931232	1931402	+	ATPase su
Chromosome	GI02	BP	gene1972	1931918	1932154	+	phage tern
Chromosome	GI02	BP	gene1973	1932717	1933214	+	phage tern
Chromosome	GI02	BP	gene1974	1933218	1934756	+	phage port
Chromosome	GI02	BP	gene1975	1934749	1935666	+	hypothetic
Chromosome	GI02	BP	gene1976	1935716	1936588	+	hypothetic
Chromosome	GI02	BP	gene1977	1936594	1937772	+	XkdF-like
Chromosome	GI02	BP	gene1978	1937785	1938720	+	phage majc
Chromosome	GI02	BP	gene1979	1938731	1939051	+	phage-like
Chromosome	GI02	BP	gene1980	1940254	1940060	-	hypothetic
Chromosome	GI02	BP	gene1981	1940388	1940531	+	LXG domair
Chromosome	GI02	BP	gene1982	1940494	1940727	+	LXG domair
Chromosome	GI02	BP	gene1983	1941127	1942017	+	hypothetic
Chromosome	GI02	BP	gene1984	1942020	1942484	+	SMI1/KNR4
Chromosome	GI02	BP	gene1985	1942799	1943191	+	hypothetic
Chromosome	GI02	BP	gene1986	1944498	1943512	-	hypothetic
Chromosome	GI02	BP	gene1987	1944907	1944515	-	(2Fe-2S) f
Chromosome	GI02	BP	gene1988	1945493	1945906	+	MULTISPECI
Chromosome	GI02	BP	gene1989	1946199	1946089	-	MULTISPECI
Chromosome	GI03	BP	gene2309	2294222	2294049	-	hypothetic
Chromosome	GI03	BP	gene2310	2295236	2294580	-	MULTISPECI
Chromosome	GI03	BP	gene2311	2296897	2295233	-	MULTISPECI
Chromosome	GI03	BP	gene2312	2298576	2297425	-	MULTISPECI
Chromosome	GI03	BP	gene2313	2300100	2299435	-	MULTISPECI
Chromosome	GI03	BP	gene2314	2300925	2300461	-	MULTISPECI
Chromosome	GI03	BP	gene2315	2301309	2301031	-	MULTISPECI
Chromosome	GI03	BP	gene2316	2301702	2301313	-	MULTISPECI
Chromosome	GI03	BP	gene2317	2302037	2302315	+	MULTISPECI

ChromosomeGI03	BP	gene2318	2302725	2303012 +	MULTISPECI
ChromosomeGI03	BP	gene2319	2303533	2303787 +	MULTISPECI
ChromosomeGI03	BP	gene2320	2304603	2305040 +	MULTISPECI
ChromosomeGI03	BP	gene2321	2305137	2305988 +	MULTISPECI
ChromosomeGI03	BP	gene2322	2306151	2306795 +	MULTISPECI
ChromosomeGI04	BP	gene2334	2317474	2317599 +	MULTISPECI
ChromosomeGI04	BP	gene2335	2317621	2318076 +	MULTISPECI
ChromosomeGI04	BP	gene2336	2318200	2318715 +	MULTISPECI
ChromosomeGI04	BP	gene2337	2319384	2318758 -	MULTISPECI
ChromosomeGI04	BP	gene2338	2321148	2319685 -	MULTISPECI
ChromosomeGI04	BP	gene2339	2321287	2321601 +	hypothetic
ChromosomeGI04	BP	gene2340	2322574	2322978 +	MULTISPECI
ChromosomeGI04	BP	gene2341	2323270	2322866 -	aminotrans
ChromosomeGI04	BP	gene2342	2323788	2323300 -	MULTISPECI
ChromosomeGI04	BP	gene2343	2324245	2323901 -	MULTISPECI
ChromosomeGI04	BP	gene2344	2324891	2324682 -	MULTISPECI
ChromosomeGI05	BP	gene2765	2742958	2741846 -	glycosyltr
ChromosomeGI05	BP	gene2766	2743452	2742955 -	hypothetic
ChromosomeGI05	BP	gene2767	2743613	2743978 +	YqzD
ChromosomeGI05	BP	gene2768	2743975	2744454 +	MULTISPECI
ChromosomeGI05	BP	gene2769	2745110	2745018 -	hypothetic
ChromosomeGI05	BP	gene2770	2745572	2745276 -	MULTISPECI
ChromosomeGI05	BP	gene2771	2746116	2745562 -	MULTISPECI
ChromosomeGI05	BP	gene2772	2746820	2746113 -	MULTISPECI
ChromosomeGI05	BP	gene2773	2748511	2746817 -	MULTISPECI
ChromosomeGI05	BP	gene2774	2748930	2748586 -	MULTISPECI
ChromosomeGI05	BP	gene2775	2749608	2748955 -	MULTISPECI
ChromosomeGI05	BP	gene2776	2750986	2750207 -	MULTISPECI
ChromosomeGI05	BP	gene2777	2751826	2750999 -	phosphate

tion

hydrolase family 43 protein
al protein
ES: hypothetical protein
ES: hypothetical protein
ES: DUF1433 domain-containing protein
al protein
al protein
Full=Uncharacterized 11.0 kDa protein in cwll 5' region
ES: phage holin
ES: N-acetylmuramoyl-L-alanine amidase
ES: hypothetical protein
ES: GAF domain-containing protein
ES: hypothetical protein
ES: SMI1/KNR4 family protein
ES: hypothetical protein
ES: tetratricopeptide repeat protein
ES: hypothetical protein
ure containing HNH/Endo VII supernuclease toxin family protein
al protein
region 4 family protein
al protein
unit of terminase family protein
inase large subunit
inase large subunit
al protein
al protein
al protein
putative serine protease domain-containing protein
or capsid protein
element PBSX protein xkdM
al protein
n of WXG superfamily protein
n of WXG superfamily protein
al protein
family protein
al protein
al protein
ferredoxin domain-containing protein
ES: YjdF family protein
ES: YjcZ family sporulation protein
al protein
ES: SMI1/KNR4 family protein
ES: transposase
ES: serine hydrolase
ES: PilZ domain-containing protein
ES: SMI1/KNR4 family protein
ES: YwqI/YxiC family protein
ES: DUF5082 family protein
ES: hypothetical protein

ES: YozQ family protein
ES: YciI family protein
ES: hypothetical protein
ES: SMI1/KNR4 family protein
ES: DUF1796 family putative cysteine peptidase
ES: hypothetical protein
ES: YndM family protein
ES: DinB family protein
ES: FMN-dependent NADH-azoreductase
ES: serine hydrolase
al protein
ES: integrase
ferase class I and II family protein
ES: TraR/DksA C4-type zinc finger protein
ES: PH domain-containing protein
ES: DUF6501 family protein
ransferase family 4 protein
al protein

ES: endolytic transglycosylase MltG
al protein
ES: hypothetical protein
ES: stage II sporulation protein M
ES: ABC transporter ATP-binding protein
ES: hypothetical protein
ES: uberolysin/carnocyclin family circular bacteriocin
ES: YIP1 family protein
ES: phosphate ABC transporter ATP-binding protein PstB
ABC transporter ATP-binding protein