

Supplementary Table 10: Mapping pORFs to RTSs. Abbreviations: U, uncharacterized ORF

pORF	bnum	Gene	Note	RTS
pORF+_337	b0002	thrA		RTS_R4+_1
pORF+_2801	b0003	thrB		RTS_R4+_2
pORF+_3734	b0004	thrC		RTS_R4+_2
pORF+_8175	b0008	talB		RTS_R4+_4
pORF+_9303	b0009	mog	U	RTS_R4+_5
pORF+_12163	b0014	dnaK		RTS_R4+_6
pORF+_14138	b0015	dnaJ		RTS_R4+_7
pORF+_15439	b0016	insL		RTS_R4+_8
pORF+_21407	b0025	ribF		RTS_R4+_13
pORF+_22391	b0026	ileS		RTS_R4+_13
pORF+_25826	b0028	fkpB		RTS_R4+_15
pORF+_26193	b0029	ispH		RTS_R4+_15
pORF+_27293	b0030	rihC		RTS_R4+_15
pORF+_28374	b0031	dapB		RTS_R4+_16
pORF+_29624	b0032	carA		RTS_R4+_17
pORF+_30817	b0033	carB		RTS_R4+_17
pORF+_34195	b0034	caiF		RTS_R4+_18
pORF+_44180	b0043	fixC	U	
pORF+_47246	b0046	kefF		RTS_R4+_19
pORF+_47673	b0047	kefC		RTS_R4+_19
pORF+_49688	b0048	folA		RTS_R4+_20
pORF+_57319	b0055	djIA		RTS_R4+_21
pORF+_70336	b0064	araC		RTS_R4+_23
pORF+_85540	b0077	ilvI		RTS_R4+_27
pORF+_87327	b0078	ilvH		RTS_R4+_27
pORF+_88028	b0080	fruR		RTS_R4+_28
pORF+_89598	b0081	mraZ	U	RTS_R4+_29
pORF+_89965	b0082	mraW		RTS_R4+_30
pORF+_91032	b0083	ftsL		RTS_R4+_32
pORF+_93166	b0085	murE		RTS_R4+_33
pORF+_94650	b0086	murF		RTS_R4+_33
pORF+_97087	b0088	murD		RTS_R4+_33
pORF+_98400	b0089	ftsW		RTS_R4+_33
pORF+_99644	b0090	murG		RTS_R4+_33
pORF+_100765	b0091	murC		RTS_R4+_34
pORF+_102233	b0092	ddlB		RTS_R4+_34
pORF+_103155	b0093	ftsQ		RTS_R4+_35
pORF+_103982	b0094	ftsA		RTS_R4+_35
pORF+_105305	b0095	ftsZ		RTS_R4+_36
pORF+_106557	b0096	lpxC		RTS_R4+_37
pORF+_108279	b0098	secA		RTS_R4+_39
pORF+_113444	b0104	guaC		RTS_R4+_40
pORF+_118733	b0110	ampD		RTS_R4+_41
pORF+_119242	b0111	ampE	U	RTS_R4+_41
pORF+_122059	b0113	pdhR		RTS_R4+_42
pORF+_123017	b0114	aceE		RTS_R4+_43
pORF+_125695	b0115	aceF		RTS_R4+_43
pORF+_127879	b0116	lpd		RTS_R4+_44
pORF+_131462	b0118	acnB		RTS_R4+_47
pORF+_134340	b0119	yacl	U	RTS_R4+_48
pORF+_137044	b0123	cueO		RTS_R4+_49
pORF+_141356	b0125	hpt		RTS_R4+_50
pORF+_142779	b0127	yadG	U	RTS_R4+_51
pORF+_162060	b0148	hrpB	U	RTS_R4+_54
pORF+_164715	b0149	mrcB		RTS_R4+_55
pORF+_167484	b0150	fhuA		RTS_R4+_56
pORF+_169736	b0151	fhuC		RTS_R4+_57
pORF+_170572	b0152	fhuD		RTS_R4+_57
pORF+_171462	b0153	fhuB		RTS_R4+_57
pORF+_176577	b0156	erpA	U	RTS_R4+_59
pORF+_179237	b0160	dgt		RTS_R4+_60

pORF+_180884	b0161	degP		RTS_R4+_61
pORF+_189676	b0169	rpsB		RTS_R4+_64
pORF+_190857	b0170	tsf		RTS_R4+_64
pORF+_191855	b0171	pyrH		RTS_R4+_65
pORF+_192872	b0172	frr		RTS_R4+_66
pORF+_193521	b0173	dxr		RTS_R4+_66
pORF+_194903	b0174	ispU		RTS_R4+_67
pORF+_196501	b0176	rseP		RTS_R4+_68
pORF+_197928	b0177	bamA	U	RTS_R4+_69
pORF+_200482	b0178	skp		RTS_R4+_70
pORF+_200971	b0179	lpxD		RTS_R4+_70
pORF+_202008	b0180	fabZ		RTS_R4+_71
pORF+_202560	b0181	lpxA		RTS_R4+_71
pORF+_203348	b0182	lpxB		RTS_R4+_71
pORF+_205126	b0184	dnaE		RTS_R4+_71
pORF+_208621	b0185	accA		RTS_R4+_72
pORF+_209679	b0186	ldcC		RTS_R4+_73
pORF+_211850	b0187	yaeR	U	RTS_R4+_74
pORF+_212331	b0188	tilS		RTS_R4+_74
pORF+_215269	b0192	nlpE		RTS_R4+_76
pORF+_222833	b0200	gmhB		RTS_R4+_77
pORF+_229167	b0207	dkgB		RTS_R4+_80
pORF+_231122	b0209	yafD	U	RTS_R4+_81
pORF+_236058	b0215	dnaQ		RTS_R4+_83
pORF+_239154	b4503	yafF	U	
pORF+_240343	b0220	ivy		RTS_R4+_85
pORF+_243510	b0222	lpcA		RTS_R4+_86
pORF+_244312	b0223	yafJ	U	RTS_R4+_86
pORF+_249937	b0230	lafU	U	RTS_R4+_89
pORF+_255977	b0238	gpt		RTS_R4+_93
pORF+_256527	b0239	frsA		RTS_R4+_94
pORF+_257829	b0240	crl		RTS_R4+_95
pORF+_259525	b0242	proB		RTS_R4+_96
pORF+_260727	b0243	proA		RTS_R4+_96
pORF+_265665				
pORF+_274525	b0260	mmuP	U	RTS_R4+_101
pORF+_275795	b0261	mmuM		RTS_R4+_101
pORF+_281481	b0268	yagE	U	
pORF+_282404	b0269	yagF	U	
pORF+_284619	b0270	yagG	U	
pORF+_302215	b0287	yagU	U	RTS_R4+_108
pORF+_314506	b0298	insE		RTS_R4+_110
pORF+_314811	b0299	insF		RTS_R4+_110
pORF+_320832	b0306	ykgE	U	RTS_R4+_112
pORF+_321562	b0307	ykgF	U	RTS_R4+_112
pORF+_322829	b0308	ykgG	U	RTS_R4+_112
pORF+_331589	b0315	yahA	U	RTS_R4+_115
pORF+_334504	b0318	yahD	U	RTS_R4+_116
pORF+_335149	b0319	yahE	U	RTS_R4+_116
pORF+_336002	b0320	yahF	U	RTS_R4+_116
pORF+_337549	b0321	yahG	U	RTS_R4+_116
pORF+_339389	b0323	yahI	U	RTS_R4+_117
pORF+_340349	b0324	yahJ	U	RTS_R4+_118
pORF+_342108	b0325	yahK	U	RTS_R4+_119
pORF+_345708	b0329	yahO	U	RTS_R4+_121
pORF+_347906	b0331	prpB		RTS_R4+_122
pORF+_349236	b0333	prpC		RTS_R4+_122
pORF+_350439	b0334	prpD		RTS_R4+_122
pORF+_352003				RTS_R4+_122
pORF+_352501				RTS_R4+_122
pORF+_354146	b0336	codB		RTS_R4+_123
pORF+_355380	b0337	codA		RTS_R4+_123
pORF+_370400	b0349	mhpC		RTS_R4+_124

pORF+_374638	b0353	mhpT	U	RTS_R4+_125
pORF+_375879	b0354	yaiL		RTS_R4+_126
pORF+_384399	b0365	tauA		RTS_R4+_129
pORF+_385431	b0366	tauB		RTS_R4+_129
pORF+_386195	b0367	tauC		RTS_R4+_129
pORF+_387019	b0368	tauD		RTS_R4+_129
pORF+_397096	b0378	yaiW	U	RTS_R4+_132
pORF+_400610	b0382	iraP	U	RTS_R4+_134
pORF+_400902	b0383	phoA		RTS_R4+_135
pORF+_402487	b0384	psiF	U	RTS_R4+_135
pORF+_404868	b0387	yaiI	U	RTS_R4+_137
pORF+_405629	b0388	aroL		RTS_R4+_138
pORF+_406203	b0389	yaiA	U	RTS_R4+_139
pORF+_406652	b0390	aroM	U	RTS_R4+_140
pORF+_407401	b0391	yaiE	U	RTS_R4+_141
pORF+_409230	b0394	mak		RTS_R4+_143
pORF+_416366	b0399	phoB		RTS_R4+_145
pORF+_417113	b0400	phoR		RTS_R4+_145
pORF+_420207	b0402	proY	U	RTS_R4+_147
pORF+_421739	b0403	malZ		RTS_R4+_148
pORF+_424235	b0405	queA		RTS_R4+_149
pORF+_425361	b0406	tgt		RTS_R4+_149
pORF+_426481	b0407	yajC		RTS_R4+_151
pORF+_426871	b0408	secD		RTS_R4+_152
pORF+_428684	b0409	secF		RTS_R4+_152
pORF+_432226	b0413	nrdR	U	RTS_R4+_154
pORF+_432679	b0414	ribD		RTS_R4+_154
pORF+_433775	b0415	ribE		RTS_R4+_155
pORF+_434361	b0416	nusB		RTS_R4+_155
pORF+_434858	b0417	thiL		RTS_R4+_155
pORF+_440773	b0423	thiI		RTS_R4+_158
pORF+_443739	b0426	yajQ	U	RTS_R4+_159
pORF+_453663	b0435	bolA		RTS_R4+_160
pORF+_454357	b0436	tig		RTS_R4+_161
pORF+_455901	b0437	clpP		RTS_R4+_162
pORF+_456650	b0438	clpX		RTS_R4+_162
pORF+_458067	b0439	lon		RTS_R4+_163
pORF+_460675	b0440	hupB		RTS_R4+_165
pORF+_461139	b0441	ppiD		RTS_R4+_166
pORF+_463626	b0443	ybaW	U	RTS_R4+_166
pORF+_468095	b0448	mdIA	U	RTS_R4+_168
pORF+_469746	b0449	mdIB	U	RTS_R4+_169
pORF+_471684	b0450	glnK		RTS_R4+_170
pORF+_474603	b0453	ybaY	U	RTS_R4+_172
pORF+_485760	b0465	kefA	U	RTS_R4+_177
pORF+_490582	b0469	apt		RTS_R4+_179
pORF+_491316	b0470	dnaX		RTS_R4+_180
pORF+_493285	b0471	ybaB	U	RTS_R4+_181
pORF+_493629	b0472	recR		RTS_R4+_181
pORF+_494344	b0473	htpG		RTS_R4+_182
pORF+_496339	b0474	adk		RTS_R4+_183
pORF+_497279	b0475	hemH		RTS_R4+_184
pORF+_499349	b0477	gsk		RTS_R4+_185
pORF+_504138	b0480	ushA		RTS_R4+_186
pORF+_507388	b0483	ybaQ	U	RTS_R4+_188
pORF+_510865	b0485	ybaS	U	RTS_R4+_189
pORF+_513217	b0487	cueR		RTS_R4+_190
pORF+_515143	b0490	ybbL	U	RTS_R4+_191
pORF+_518957	b0495	ybbA	U	RTS_R4+_192
pORF+_519640	b0496	ybbP	U	RTS_R4+_192
pORF+_522485	b0497	rhdD	U	RTS_R4+_193
pORF+_532235	b0506	allR		RTS_R4+_196
pORF+_533050	b0507	gcl		RTS_R4+_198

pORF+_534934	b0508	hyi		
pORF+_535810	b0509	glxR		
pORF+_548757	b0520	ylbF	U	
pORF+_553834	b0526	cysS		RTS_R4+_200
pORF+_566056	b0540	insE		RTS_R4+_202
pORF+_566361	b0541	insF		RTS_R4+_202
pORF+_594823	b0572	cusC		
pORF+_596354	b0573	cusF		RTS_R4+_211
pORF+_596702	b0574	cusB		RTS_R4+_211
pORF+_597937	b0575	cusA		RTS_R4+_211
pORF+_601146	b0576	pheP		RTS_R4+_212
pORF+_607282	b0582	insL		RTS_R4+_213
pORF+_611960	b0585	fes		RTS_R4+_214
pORF+_613159	b4511	ybdZ	U	RTS_R4+_214
pORF+_613242	b0586	entF		RTS_R4+_214
pORF+_621523	b0591	entS	U	RTS_R4+_215
pORF+_624096	b0593	entC		RTS_R4+_216
pORF+_625293	b0594	entE		RTS_R4+_216
pORF+_626917	b0595	entB		RTS_R4+_216
pORF+_627744	b0596	entA		RTS_R4+_216
pORF+_628523	b0597	ybdB	U	RTS_R4+_216
pORF+_629117	b0598	cstA		RTS_R4+_217
pORF+_632809	b0600	ybdL		RTS_R4+_218
pORF+_638168	b0605	ahpC		RTS_R4+_219
pORF+_638946	b0606	ahpF		RTS_R4+_219
pORF+_647226				
pORF+_653085	b0620	dpiA		RTS_R4+_221
pORF+_656485	b0623	cspE		RTS_R4+_223
pORF+_658170	b0627	tatE		RTS_R4+_225
pORF+_674241	b0643	ybeL	U	RTS_R4+_227
pORF+_694318	b0662	ubiF		RTS_R4+_228
pORF+_703167	b0679	nagE		RTS_R4+_230
pORF+_705316	b0680	glnS		RTS_R4+_231
pORF+_709013	b0682	ybfN	U	
pORF+_712075	b0687	seqA		RTS_R4+_233
pORF+_712730	b0688	pgm		RTS_R4+_233
pORF+_736123	b0705	ybfL	U	
pORF+_742050	b0710	ybgI	U	RTS_R4+_240
pORF+_742816	b0711	ybgJ	U	RTS_R4+_240
pORF+_743466	b0712	ybgK	U	RTS_R4+_240
pORF+_745158	b0714	nei		RTS_R4+_241
pORF+_754783	b0722	sdhD		RTS_R4+_244
pORF+_755118	b0723	sdhA		RTS_R4+_244
pORF+_756912	b0724	sdhB		RTS_R4+_244
pORF+_757929	b0726	sucA		RTS_R4+_245
pORF+_760745	b0727	sucB		RTS_R4+_245
pORF+_762237	b0728	sucC		RTS_R4+_245
pORF+_763403	b0729	sucD		RTS_R4+_245
pORF+_770678	b0733	cydA		RTS_R4+_247
pORF+_772265	b0734	cydB		RTS_R4+_247
pORF+_773975	b0736	ybgC	U	RTS_R4+_250
pORF+_774376	b0737	tolQ		RTS_R4+_250
pORF+_775072	b0738	tolR		RTS_R4+_250
pORF+_775565	b0739	tolA		RTS_R4+_250
pORF+_776960	b0740	tolB		RTS_R4+_251
pORF+_778266	b0741	pal		RTS_R4+_251
pORF+_778821	b0742	ybgF	U	RTS_R4+_251
pORF+_781308	b0750	nadA		RTS_R4+_255
pORF+_784856	b0754	aroG		RTS_R4+_257
pORF+_794312	b0763	modA		RTS_R4+_260
pORF+_795777	b0765	modC		RTS_R4+_260
pORF+_797809	b0767	pgl		RTS_R4+_262
pORF+_808567	b0775	bioB		RTS_R4+_263

pORF_+_809604	b0776	bioF		RTS_R4+_263
pORF_+_811487	b0778	bioD		RTS_R4+_263
pORF_+_812749	b0779	uvrB		RTS_R4+_264
pORF_+_816186	b0781	moaA		RTS_R4+_265
pORF_+_817278	b0782	moaB		RTS_R4+_266
pORF_+_817793	b0783	moaC		RTS_R4+_266
pORF_+_818208	b0784	moaD		RTS_R4+_266
pORF_+_818518	b0785	moaE		RTS_R4+_266
pORF_+_830095	b0797	rhIE		RTS_R4+_270
pORF_+_834471	b0800	ybiB	U	RTS_R4+_272
pORF_+_835574	b0801	ybiC	U	RTS_R4+_273
pORF_+_841474	b0807	rlmF	U	RTS_R4+_275
pORF_+_849667	b0814	ompX		RTS_R4+_276
pORF_+_852406	b0817	mntR		RTS_R4+_277
pORF_+_855186	b0820	ybiT	U	RTS_R4+_278
pORF_+_862793	b0825	fsaA		RTS_R4+_280
pORF_+_865791	b0828	iaaA		RTS_R4+_281
pORF_+_866635	b0829	gsiA	U	RTS_R4+_281
pORF_+_868367	b0830	gsiB	U	RTS_R4+_281
pORF_+_870190	b0831	gsiC	U	RTS_R4+_281
pORF_+_871113	b0832	gsiD	U	RTS_R4+_282
pORF_+_872124	b0833	yliE	U	RTS_R4+_283
pORF_+_874558	b0834	yliF	U	RTS_R4+_283
pORF_+_879929	b0839	dacC		RTS_R4+_286
pORF_+_890407	b0851	nfsA		RTS_R4+_290
pORF_+_891190	b0852	rimK		RTS_R4+_291
pORF_+_892857	b0854	potF		RTS_R4+_293
pORF_+_894133	b0855	potG		RTS_R4+_293
pORF_+_897741	b0859	rumB		RTS_R4+_295
pORF_+_903816	b0866	ybjQ	U	RTS_R4+_296
pORF_+_904136	b0867	amiD	U	RTS_R4+_296
pORF_+_915696	b0876	ybjD	U	RTS_R4+_299
pORF_+_918431	b0878	macA		RTS_R4+_300
pORF_+_919570	b0879	macB		RTS_R4+_300
pORF_+_922472	b0882	clpA		RTS_R4+_302
pORF_+_931764	b0889	lrp		RTS_R4+_303
pORF_+_932447	b0890	ftsK		RTS_R4+_304
pORF_+_936592	b0891	lolA		RTS_R4+_305
pORF_+_937217	b0892	rarA		RTS_R4+_305
pORF_+_938651	b0893	serS		RTS_R4+_306
pORF_+_940182	b0894	dmsA		RTS_R4+_307
pORF_+_942637	b0895	dmsB		RTS_R4+_307
pORF_+_948891	b0901	ycaK	U	RTS_R4+_310
pORF_+_956876	b0907	serC		RTS_R4+_312
pORF_+_958035	b0908	aroA		RTS_R4+_312
pORF_+_959463	b0909	ycaL	U	RTS_R4+_313
pORF_+_960424	b0910	cmk		RTS_R4+_314
pORF_+_961218	b0911	rpsA		RTS_R4+_315
pORF_+_963051	b0912	ihfB		RTS_R4+_316
pORF_+_963465	b0913	ycaI	U	RTS_R4+_317
pORF_+_965844	b0914	msbA		RTS_R4+_318
pORF_+_967589	b0915	lpxK		RTS_R4+_318
pORF_+_969896	b0917	ycaR	U	RTS_R4+_319
pORF_+_970075	b0918	kdsB		RTS_R4+_319
pORF_+_970975	b0919	ycbJ	U	RTS_R4+_320
pORF_+_972748	b0921	smtA	U	RTS_R4+_321
pORF_+_973542	b0922	mukF		RTS_R4+_321
pORF_+_974818	b0923	mukE		RTS_R4+_321
pORF_+_975549	b0924	mukB	U	RTS_R4+_321
pORF_+_980270	b0925	ycbB	U	RTS_R4+_322
pORF_+_982873	b0927	ycbL	U	RTS_R4+_324
pORF_+_989845	b0932	pepN		RTS_R4+_327
pORF_+_1003964	b0945	pyrD		RTS_R4+_328

pORF+_1005139	b0946	ycbW	U	RTS_R4+_329
pORF+_1007067	b0948	rlmL	U	RTS_R4+_330
pORF+_1009187	b0949	uup	U	RTS_R4+_330
pORF+_1012422	b0951	pqiB		RTS_R4+_331
pORF+_1014119	b0952	ymbA	U	RTS_R4+_331
pORF+_1014938	b0953	rmf		RTS_R4+_332
pORF+_1017708	b0956	ycbG	U	RTS_R4+_333
pORF+_1023601	b0962	helD		RTS_R4+_336
pORF+_1027088	b0965	yccU	U	RTS_R4+_337
pORF+_1029074	b0968	yccX	U	RTS_R4+_338
pORF+_1031335	b0972	hyaA		RTS_R4+_340
pORF+_1032477	b0973	hyaB		RTS_R4+_340
pORF+_1036957	b0978	appC		RTS_R4+_341
pORF+_1039810	b0980	appA		RTS_R4+_342
pORF+_1050684	b0990	cspG		
pORF+_1051290	b4517	gnsA	U	RTS_R4+_344
pORF+_1057259	b0996	torC		RTS_R4+_346
pORF+_1058479	b0997	torA		RTS_R4+_346
pORF+_1064784	b1002	agp		RTS_R4+_348
pORF+_1073438	b1013	rutR	U	RTS_R4+_350
pORF+_1078528	b1015	putP		RTS_R4+_351
pORF+_1081466	b1018	efeO	U	RTS_R4+_352
pORF+_1082599	b1019	efeB	U	RTS_R4+_352
pORF+_1084215	b1020	phoH	U	RTS_R4+_353
pORF+_1094710	b1028	ymdE	U	
pORF+_1097070	b1033	ghrA		RTS_R4+_356
pORF+_1098102	b1034	ycdX	U	RTS_R4+_357
pORF+_1098863	b1035	ycdY	U	RTS_R4+_357
pORF+_1105043	b1045	ymdB	U	RTS_R4+_360
pORF+_1105509	b1046	ymdC	U	RTS_R4+_360
pORF+_1108540	b1048	mdoG		RTS_R4+_361
pORF+_1110056	b1049	mdoH		RTS_R4+_361
pORF+_1115976	b1055	yceA	U	RTS_R4+_362
pORF+_1124785	b1066	rimJ		RTS_R4+_363
pORF+_1125380	b1067	yceH	U	RTS_R4+_363
pORF+_1125996	b1068	yceM	U	RTS_R4+_363
pORF+_1127023	b1069	yceN	U	RTS_R4+_364
pORF+_1131797	b1076	flgE		
pORF+_1133025	b1077	flgF		
pORF+_1134772	b1079	flgH		
pORF+_1135494	b1080	flgI	U	
pORF+_1137601	b1082	flgK		RTS_R4+_365
pORF+_1139256	b1083	flgL		RTS_R4+_365
pORF+_1144163	b1086	rluC		RTS_R4+_366
pORF+_1146017	b1088	yceD	U	RTS_R4+_368
pORF+_1146590	b1089	rpmF		RTS_R4+_369
pORF+_1146844	b1090	plsX		RTS_R4+_370
pORF+_1147982	b1091	fabH		RTS_R4+_371
pORF+_1148951	b1092	fabD		RTS_R4+_371
pORF+_1149893	b1093	fabG		RTS_R4+_371
pORF+_1150838	b1094	acpP		RTS_R4+_372
pORF+_1151162	b1095	fabF		RTS_R4+_373
pORF+_1153335	b1097	yceG	U	RTS_R4+_374
pORF+_1154347	b1098	tmk		RTS_R4+_375
pORF+_1154985	b1099	holB		RTS_R4+_375
pORF+_1155940	b1100	ycfH	U	RTS_R4+_375
pORF+_1157092	b1101	ptsG		RTS_R4+_376
pORF+_1161090	b1103	hinT		RTS_R4+_377
pORF+_1161470	b1104	ycfL	U	RTS_R4+_377
pORF+_1161858	b1105	ycfM	U	RTS_R4+_377
pORF+_1163318	b1107	nagZ		RTS_R4+_378
pORF+_1164309	b1108	ycfP	U	RTS_R4+_379
pORF+_1165281	b1109	ndh		RTS_R4+_380

pORF+_1168296	b1112	bhsA	U	RTS_R4+_382
pORF+_1175701	b1117	lolD		RTS_R4+_383
pORF+_1176543	b1118	lolE		RTS_R4+_383
pORF+_1177756	b1119	nagK		RTS_R4+_384
pORF+_1178743	b1120	cobB		RTS_R4+_384
pORF+_1185025	b1127	pepT		RTS_R4+_385
pORF+_1194346	b1136	icd		RTS_R4+_386
pORF+_1205315	b1152	ymfP	U	
pORF+_1206136	b1153	ymfQ	U	
pORF+_1210636	b4519	icdC	U	RTS_R4+_389
pORF+_1215291	b1165	ymgA	U	RTS_R4+_390
pORF+_1215592	b1166	ariR	U	RTS_R4+_390
pORF+_1225823	b1177	ycgJ	U	RTS_R4+_395
pORF+_1226904	b1179	ycgL	U	RTS_R4+_396
pORF+_1227302	b1180	ycgM	U	RTS_R4+_396
pORF+_1230409	b1184	umuC		RTS_R4+_398
pORF+_1234137	b1187	fadR		RTS_R4+_399
pORF+_1236788	b1189	dadA		RTS_R4+_400
pORF+_1238102	b1190	dadX		RTS_R4+_400
pORF+_1242289	b1193	emtA		RTS_R4+_402
pORF+_1250280	b1201	dhaR	U	RTS_R4+_405
pORF+_1258014	b1205	ychH	U	RTS_R4+_406
pORF+_1262739	b1210	hemA		RTS_R4+_407
pORF+_1264235	b1211	prfA		RTS_R4+_407
pORF+_1265317	b1212	prmC		RTS_R4+_407
pORF+_1267388	b1215	kdsA		RTS_R4+_409
pORF+_1271342	b1217	chaB	U	RTS_R4+_410
pORF+_1279087	b1224	narG		RTS_R4+_414
pORF+_1282139				RTS_R4+_414
pORF+_1282827	b1225	narH		RTS_R4+_414
pORF+_1284362	b1226	narJ		RTS_R4+_414
pORF+_1288429	b1234	rssA	U	RTS_R4+_415
pORF+_1289465	b1235	rssB		RTS_R4+_416
pORF+_1290680	b1236	galU		RTS_R4+_417
pORF+_1292750	b1238	tdk		RTS_R4+_418
pORF+_1299134	b1243	oppA		RTS_R4+_421
pORF+_1300923	b1244	oppB		RTS_R4+_422
pORF+_1302778	b1246	oppD		RTS_R4+_422
pORF+_1303788	b1247	oppF		RTS_R4+_422
pORF+_1309062	b1252	tonB		RTS_R4+_424
pORF+_1312044	b1256	ompW		RTS_R4+_425
pORF+_1322086	b1267	yciO	U	RTS_R4+_427
pORF+_1324876	b1269	rluB		RTS_R4+_430
pORF+_1327356	b1272	sohB	U	RTS_R4+_431
pORF+_1329030	b1274	topA		RTS_R4+_432
pORF+_1331879	b1275	cysB		RTS_R4+_433
pORF+_1333855	b1276	acnA		RTS_R4+_435
pORF+_1338267	b1279	yciS	U	RTS_R4+_437
pORF+_1338582	b1280	yciM	U	RTS_R4+_437
pORF+_1339885	b1281	pyrF		RTS_R4+_438
pORF+_1340679	b1282	yciH	U	RTS_R4+_438
pORF+_1359132	b1298	puuD		RTS_R4+_439
pORF+_1359935	b1299	puuR		RTS_R4+_439
pORF+_1360671	b1300	puuC		RTS_R4+_439
pORF+_1362256	b1301	puuB		RTS_R4+_439
pORF+_1363574	b1302	puuE		RTS_R4+_439
pORF+_1366103	b1304	pspA		RTS_R4+_440
pORF+_1366825	b1305	pspB		RTS_R4+_440
pORF+_1367713	b1308	pspE		RTS_R4+_441
pORF+_1368213	b1309	ycjM	U	RTS_R4+_442
pORF+_1369933	b1310	ycjN	U	RTS_R4+_442
pORF+_1374856	b1315	ycjS	U	RTS_R4+_442
pORF+_1382141	b1321	ycjX	U	RTS_R4+_443

pORF+_1383535	b1322	ycjF	U	RTS_R4+_443
pORF+_1384717	b1323	tyrR		RTS_R4+_444
pORF+_1386912	b1325	ycjG		RTS_R4+_445
pORF+_1391230	b1329	mppA		RTS_R4+_447
pORF+_1394100	b1331	insH		RTS_R4+_448
pORF+_1404003	b1340	ydaL	U	RTS_R4+_451
pORF+_1406074	b1342	ydaN	U	RTS_R4+_452
pORF+_1423838				
pORF+_1425482	b4570	lomR	U	
pORF+_1427067	b1372	stfR	U	RTS_R4+_457
pORF+_1445540	b1385	feaB		RTS_R4+_465
pORF+_1456982	b1395	paaH		
pORF+_1458917	b1397	paaJ	U	RTS_R4+_466
pORF+_1461563	b1399	paaX		RTS_R4+_468
pORF+_1462495	b1400	paaY	U	RTS_R4+_468
pORF+_1463416	b4492	ydbA	U	RTS_R4+_469
pORF+_1472245	b1406	ydbC	U	RTS_R4+_473
pORF+_1473162	b1407	ydbD	U	
pORF+_1481085	b1413	hrpA		RTS_R4+_474
pORF+_1485259	b1414	ydcF	U	RTS_R4+_475
pORF+_1486256	b1415	aldA		RTS_R4+_476
pORF+_1490494	b1421	trg		RTS_R4+_479
pORF+_1493312	b1423	ydcJ	U	RTS_R4+_480
pORF+_1494880	b1424	mdoD		RTS_R4+_481
pORF+_1496947	b1427	rimL		RTS_R4+_483
pORF+_1499586	b1430	tehB	U	RTS_R4+_484
pORF+_1500481	b1431	ydcL	U	RTS_R4+_485
pORF+_1504763	b1435	ydcP	U	RTS_R4+_488
pORF+_1509678	b1440	ydcS	U	RTS_R4+_491
pORF+_1510841	b1441	ydcT	U	RTS_R4+_491
pORF+_1513602	b1444	ydcW		RTS_R4+_492
pORF+_1515672	b1446	ydcY	U	RTS_R4+_494
pORF+_1516958	b1449	yncB	U	RTS_R4+_495
pORF+_1518229	b1450	yncC	U	RTS_R4+_496
pORF+_1521331	b1452	yncE	U	RTS_R4+_497
pORF+_1524964	b1455	yncH	U	
pORF+_1531037	b1461	pptA		RTS_R4+_501
pORF+_1545425				RTS_R4+_503
pORF+_1546061	b1474	fdnG		RTS_R4+_503
pORF+_1548485	b1475	fdnH		
pORF+_1554649	b1482	osmC		RTS_R4+_504
pORF+_1599514	b1513	lsrA		
pORF+_1602071	b1515	lsrD		RTS_R4+_506
pORF+_1603075	b1516	lsrB		RTS_R4+_506
pORF+_1604124	b1517	lsrF		RTS_R4+_507
pORF+_1605023	b1518	lsrG		RTS_R4+_507
pORF+_1605370	b1519	tam		RTS_R4+_508
pORF+_1625526	b1539	ydfG		RTS_R4+_516
pORF+_1626376	b1540	ydfH	U	RTS_R4+_517
pORF+_1627239	b1541	ydfZ	U	RTS_R4+_518
pORF+_1631646	b1545	pinQ	U	
pORF+_1639879	b1558	cspF		
pORF+_1645958	b1570	dicA	U	RTS_R4+_524
pORF+_1653832	b1583	ynfB	U	RTS_R4+_528
pORF+_1654208	b1584	speG		RTS_R4+_528
pORF+_1655547	b1586	ynfD	U	RTS_R4+_529
pORF+_1656093	b1587	ynfE		RTS_R4+_530
pORF+_1658577	b1588	ynfF		RTS_R4+_531
pORF+_1661014	b1589	ynfG		RTS_R4+_532
pORF+_1662521	b1591	dmsD		RTS_R4+_533
pORF+_1669373	b1597	asr		RTS_R4+_536
pORF+_1669984	b1598	ydgD	U	RTS_R4+_537
pORF+_1676451	b1604	ydgH	U	RTS_R4+_539

pORF+_1680123	b1608	rstA		RTS_R4+_541
pORF+_1680906	b1609	rstB		RTS_R4+_541
pORF+_1682271	b1610	tus		RTS_R4+_542
pORF+_1686522	b1613	manA		RTS_R4+_543
pORF+_1687876	b1614	ydgA	U	RTS_R4+_544
pORF+_1697016	b1621	malX		RTS_R4+_545
pORF+_1698981	b1622	malY		RTS_R4+_546
pORF+_1700257	b1623	add		RTS_R4+_547
pORF+_1704943	b1629	rsxC	U	RTS_R4+_552
pORF+_1707166	b1630	rsxD	U	RTS_R4+_552
pORF+_1708228	b1631	rsxG	U	RTS_R4+_552
pORF+_1709547	b1633	nth		RTS_R4+_552
pORF+_1710793	b1634	tppB	U	RTS_R4+_553
pORF+_1712401	b1635	gst		RTS_R4+_554
pORF+_1717900	b1641	slyB		RTS_R4+_555
pORF+_1720145	b1645	ydhK	U	RTS_R4+_556
pORF+_1724683	b1650	nemA		RTS_R4+_557
pORF+_1725861	b1651	gloA		RTS_R4+_558
pORF+_1726371	b1652	rnt		RTS_R4+_559
pORF+_1733402	b1656	sodB		RTS_R4+_561
pORF+_1735868	b1658	purR		RTS_R4+_562
pORF+_1739437	b1661	cfa		RTS_R4+_564
pORF+_1741481	b1663	mdtK		RTS_R4+_565
pORF+_1744724	b1667	ydhR	U	RTS_R4+_567
pORF+_1745155	b1668	ydhS	U	RTS_R4+_568
pORF+_1753506	b1676	pykF		RTS_R4+_569
pORF+_1755445	b1677	lpp		RTS_R4+_570
pORF+_1767098	b1688	ydiK	U	RTS_R4+_571
pORF+_1771813	b1692	ydiB		RTS_R4+_573
pORF+_1772710	b1693	aroD		RTS_R4+_573
pORF+_1785469	b1703	ydiA	U	RTS_R4+_575
pORF+_1786336	b1704	aroH		RTS_R4+_576
pORF+_1804391	b1723	pfkB		RTS_R4+_580
pORF+_1805424	b1724	ydiZ	U	RTS_R4+_581
pORF+_1805820	b1725	yniA	U	RTS_R4+_582
pORF+_1807404	b1727	yniC	U	RTS_R4+_583
pORF+_1808958	b1729	ydjN	U	RTS_R4+_585
pORF+_1811891	b1732	katE		RTS_R4+_586
pORF+_1820482	b1740	nadE		RTS_R4+_587
pORF+_1830440	b1749	xthA		RTS_R4+_589
pORF+_1831978	b1751	ydjY	U	RTS_R4+_591
pORF+_1833539	b1753	ynjA	U	RTS_R4+_592
pORF+_1834094	b1754	ynjB	U	RTS_R4+_592
pORF+_1837476	b1757	ynjE	U	RTS_R4+_592
pORF+_1840395	b1761	gdhA		RTS_R4+_594
pORF+_1846717	b1766	sppA		RTS_R4+_595
pORF+_1848884	b1767	ansA		RTS_R4+_596
pORF+_1849893	b1768	pncA		RTS_R4+_596
pORF+_1860786	b1779	gapA		RTS_R4+_598
pORF+_1861853	b1780	yeaD	U	RTS_R4+_599
pORF+_1864932	b1783	yeaG	U	RTS_R4+_600
pORF+_1866979	b1784	yeaH	U	RTS_R4+_600
pORF+_1871598	b1787	yeaK	U	RTS_R4+_603
pORF+_1874912	b1792	yeaO	U	RTS_R4+_605
pORF+_1875610	b1794	yeaP	U	RTS_R4+_606
pORF+_1879936	b1800	yeaU	U	RTS_R4+_607
pORF+_1891343	b1809	yoaB	U	RTS_R4+_608
pORF+_1892097	b1810	yoaC	U	RTS_R4+_609
pORF+_1892829	b1812	pabB		RTS_R4+_610
pORF+_1894194	b1813	nudL	U	RTS_R4+_610
pORF+_1894956	b1814	sdaA		RTS_R4+_611
pORF+_1900072	b1817	manX		RTS_R4+_613
pORF+_1901106	b1818	manY		RTS_R4+_614

pORF+_1901910	b1819	manZ		RTS_R4+_614
pORF+_1906949	b4536	yobH	U	RTS_R4+_618
pORF+_1914282	b1833	yebS	U	RTS_R4+_619
pORF+_1915492	b1834	yebT	U	RTS_R4+_620
pORF+_1918241	b1835	rsmF	U	RTS_R4+_621
pORF+_1919789	b1836	yebV	U	RTS_R4+_622
pORF+_1923045	b1842	holE		RTS_R4+_625
pORF+_1928905	b1849	purT		RTS_R4+_628
pORF+_1934676	b1853	yebK	U	RTS_R4+_629
pORF+_1935532	b1854	pykA		RTS_R4+_630
pORF+_1940686	b1858	znuC		RTS_R4+_631
pORF+_1941438	b1859	znuB		RTS_R4+_631
pORF+_1948823	b1867	yecD	U	RTS_R4+_632
pORF+_1949419	b1868	yecE	U	RTS_R4+_632
pORF+_1950131	b1869	yecN	U	RTS_R4+_633
pORF+_1950726	b1870	cmoA	U	RTS_R4+_633
pORF+_1951466	b1871	cmoB	U	RTS_R4+_633
pORF+_1958086	b1876	argS		RTS_R4+_635
pORF+_1977777	b1895	uspC		RTS_R4+_637
pORF+_1986725	b1905	ftnA		RTS_R4+_640
pORF+_1993842	b1915	yecF	U	RTS_R4+_642
pORF+_2004180	b1927	amyA		RTS_R4+_645
pORF+_2007503	b1930	yedF	U	RTS_R4+_646
pORF+_2011253	b1938	fliF		RTS_R4+_649
pORF+_2012904	b1939	fliG		RTS_R4+_649
pORF+_2013871	b1940	fliH		RTS_R4+_649
pORF+_2014578	b1941	fliI		RTS_R4+_649
pORF+_2017642	b1944	fliL		RTS_R4+_650
pORF+_2019112	b1946	fliN		
pORF+_2021992	b1951	rcsA		
pORF+_2022995	b1953	yodD	U	RTS_R4+_651
pORF+_2023535	b1955	yedP	U	RTS_R4+_652
pORF+_2032045	b4496	yedS	U	RTS_R4+_653
pORF+_2032863	b4496	yedS	U	RTS_R4+_653
pORF+_2033859	b1967	hchA		RTS_R4+_654
pORF+_2036980	b1970	yedX	U	RTS_R4+_655
pORF+_2037502	b1971	yedY	U	RTS_R4+_656
pORF+_2039399	b1973	yodA	U	RTS_R4+_657
pORF+_2041636	b1976	mtfA	U	RTS_R4+_659
pORF+_2042887	b1978	yeeJ		RTS_R4+_661
pORF+_2051667	b1981	shiA		RTS_R4+_662
pORF+_2052929	b1982	amn		RTS_R4+_663
pORF+_2054882	b1983	yeeN	U	RTS_R4+_664
pORF+_2068268	b4582	yoeA	U	RTS_R4+_669
pORF+_2069407	b2000	flu		RTS_R4+_672
pORF+_2080708	b2011	sbcB		RTS_R4+_674
pORF+_2088177	b2019	hisG		RTS_R4+_676
pORF+_2089112	b2020	hisD		RTS_R4+_676
pORF+_2090422	b2021	hisC		RTS_R4+_676
pORF+_2091489	b2022	hisB		RTS_R4+_676
pORF+_2092559	b2023	hisH		RTS_R4+_676
pORF+_2093146	b2024	hisA		RTS_R4+_676
pORF+_2093868	b2025	hisF		RTS_R4+_676
pORF+_2094638	b2026	hisI		RTS_R4+_677
pORF+_2135860	b2063	yegH	U	RTS_R4+_678
pORF+_2145635	b2069	yegD	U	RTS_R4+_681
pORF+_2151893	b2074	mdtA		RTS_R4+_684
pORF+_2153287	b2075	mdtB		RTS_R4+_684
pORF+_2160900	b2078	baeS		RTS_R4+_685
pORF+_2162300	b2079	baeR		RTS_R4+_686
pORF+_2163174	b2080	yegP	U	RTS_R4+_687
pORF+_2163692	b2081	yegQ	U	RTS_R4+_688
pORF+_2166736	b2086	yegS		RTS_R4+_690

pORF+_2168251	b2088	insE		RTS_R4+_691
pORF+_2168556	b2089	insF		RTS_R4+_691
pORF+_2178117	b2099	yegU	U	
pORF+_2184802	b2107	yohN	U	RTS_R4+_693
pORF+_2192313	b2114	metG		RTS_R4+_694
pORF+_2198301	b2118	yehI	U	
pORF+_2203576	b2120	yehM	U	
pORF+_2207098	b2122	yehQ	U	
pORF+_2220174	b2133	dld		RTS_R4+_698
pORF+_2229866	b2143	cdd		RTS_R4+_702
pORF+_2230900	b2144	sanA	U	RTS_R4+_703
pORF+_2232055	b2146	yeiT	U	RTS_R4+_704
pORF+_2241932	b2154	yeiG	U	RTS_R4+_705
pORF+_2248862	b2159	nfo		RTS_R4+_707
pORF+_2263217	b2171	yeiP	U	RTS_R4+_709
pORF+_2265851	b2173	yeiR	U	RTS_R4+_711
pORF+_2268001	b2175	spr	U	RTS_R4+_712
pORF+_2270380	b2177	yejA	U	RTS_R4+_714
pORF+_2272201	b2178	yejB	U	
pORF+_2274274	b2180	yejF	U	RTS_R4+_716
pORF+_2278654	b2184	yejH	U	RTS_R4+_718
pORF+_2280443	b2185	rplY		RTS_R4+_719
pORF+_2282151	b2187	yejL	U	RTS_R4+_720
pORF+_2282398	b2188	yejM	U	RTS_R4+_720
pORF+_2288492	b2193	narP		RTS_R4+_722
pORF+_2301906	b2209	eco		RTS_R4+_724
pORF+_2311510	b2216	rcsD		RTS_R4+_727
pORF+_2314154	b2217	rcsB		RTS_R4+_728
pORF+_2319888	b2220	atoC		RTS_R4+_729
pORF+_2322778	b2223	atoE		
pORF+_2324131	b2224	atoB		
pORF+_2337541	b2232	ubiG		RTS_R4+_730
pORF+_2342887	b2234	nrdA		RTS_R4+_732
pORF+_2345175	b2235	nrdB		RTS_R4+_733
pORF+_2350669	b2241	glpA		RTS_R4+_735
pORF+_2352059	b2242	glpB		RTS_R4+_735
pORF+_2363917	b2253	arnB		RTS_R4+_738
pORF+_2368930	b2257	arnT		RTS_R4+_739
pORF+_2370632	b2258	arnF	U	RTS_R4+_740
pORF+_2379612	b2268	rbn		RTS_R4+_741
pORF+_2380735	b2269	elaD	U	
pORF+_2405583	b2290	yfbQ	U	RTS_R4+_743
pORF+_2406884	b2291	yfbR		RTS_R4+_744
pORF+_2411492	b2296	ackA		RTS_R4+_745
pORF+_2412769	b2297	pta		RTS_R4+_746
pORF+_2418643	b2302	yfcG	U	RTS_R4+_748
pORF+_2419347	b2303	folX		RTS_R4+_749
pORF+_2419730	b2304	yfcH	U	RTS_R4+_750
pORF+_2439726	b2324	mnmC		RTS_R4+_752
pORF+_2446628	b2331	yfcN	U	RTS_R4+_753
pORF+_2459322	b2344	fadL		RTS_R4+_754
pORF+_2461034	b2345	yfdF	U	
pORF+_2463323	b2347	yfdC	U	RTS_R4+_755
pORF+_2464531	b2349	intS	U	RTS_R4+_757
pORF+_2466236	b2351	yfdH		RTS_R4+_758
pORF+_2467153	b2352	yfdI	U	RTS_R4+_759
pORF+_2472054	b2360	yfdQ	U	
pORF+_2477224	b2366	dsdA		RTS_R4+_762
pORF+_2481777	b2369	evgA		RTS_R4+_763
pORF+_2482396	b2370	evgS		RTS_R4+_763
pORF+_2498387	b2381	ypdB	U	RTS_R4+_767
pORF+_2511025	b2393	nupC		RTS_R4+_771
pORF+_2512347	b2394	insL		RTS_R4+_772

pORF_+_2516474	b2398	yfeC	U	RTS_R4+_773
pORF_+_2524968	b2410	yfeH	U	RTS_R4+_776
pORF_+_2529485	b2413	cysZ	U	RTS_R4+_777
pORF_+_2530431	b2414	cysK		RTS_R4+_778
pORF_+_2531786	b2415	ptsH		RTS_R4+_779
pORF_+_2532088	b2416	ptsI		RTS_R4+_779
pORF_+_2533856	b2417	crr		RTS_R4+_780
pORF_+_2543795	b2428	murQ	U	RTS_R4+_784
pORF_+_2550374	b2435	amiA		RTS_R4+_786
pORF_+_2551247	b2436	hemF		RTS_R4+_786
pORF_+_2556793	b2442	intZ	U	RTS_R4+_788
pORF_+_2561984	b2449	yffR	U	RTS_R4+_792
pORF_+_2562395	b2450	yffS	U	RTS_R4+_793
pORF_+_2576688	b2464	talA		RTS_R4+_795
pORF_+_2577595	b2465	tktB		RTS_R4+_795
pORF_+_2585617	b2470	acrD		RTS_R4+_797
pORF_+_2589269	b2471	yffB	U	RTS_R4+_798
pORF_+_2589629	b2472	dapE		RTS_R4+_799
pORF_+_2597862	b2479	gcvR		RTS_R4+_802
pORF_+_2598500	b2480	bcp		RTS_R4+_803
pORF_+_2604373				
pORF_+_2614116	b2494	yfgC	U	RTS_R4+_804
pORF_+_2615600	b2495	yfgD	U	RTS_R4+_804
pORF_+_2619204	b2499	purM		RTS_R4+_805
pORF_+_2620256	b2500	purN		RTS_R4+_805
pORF_+_2621060	b2501	ppk		RTS_R4+_806
pORF_+_2623098	b2502	ppx		RTS_R4+_806
pORF_+_2632254	b2509	xseA		RTS_R4+_810
pORF_+_2650357	b2521	sseA		RTS_R4+_811
pORF_+_2661464	b2533	suhB		RTS_R4+_813
pORF_+_2663436	b2535	csiE	U	RTS_R4+_814
pORF_+_2670069	b2542	hcaD		RTS_R4+_816
pORF_+_2682237				RTS_R4+_819
pORF_+_2683836	b2552	hmp		RTS_R4+_820
pORF_+_2693823	b2558	yfhD	U	RTS_R4+_821
pORF_+_2696709	b2561	yfhH	U	RTS_R4+_822
pORF_+_2708442	b2574	nadB		RTS_R4+_824
pORF_+_2710918	b2576	srmB		RTS_R4+_825
pORF_+_2714776	b2580	ung		RTS_R4+_826
pORF_+_2716757	b2582	trxC		RTS_R4+_827
pORF_+_2717975	b2584	yfiQ	U	RTS_R4+_828
pORF_+_2720746	b2585	pssA		RTS_R4+_830
pORF_+_2734168	b2595	bamD	U	RTS_R4+_832
pORF_+_2735176	b2597	raiA		RTS_R4+_833
pORF_+_2735767	b2599	pheA		RTS_R4+_834
pORF_+_2740405	b2604	yfiN	U	RTS_R4+_836
pORF_+_2741647	b2605	yfiB	U	RTS_R4+_836
pORF_+_2745909	b2611	ypjD	U	RTS_R4+_837
pORF_+_2746820	b4461	yfjD	U	RTS_R4+_837
pORF_+_2748853	b2615	nadK		RTS_R4+_838
pORF_+_2751627	b2617	smpA		RTS_R4+_840
pORF_+_2752918	b2620	smpB		RTS_R4+_841
pORF_+_2757007	b2625	yfiI	U	
pORF_+_2765726	b2632	yfjP	U	RTS_R4+_848
pORF_+_2787938	b2660	ygaF	U	RTS_R4+_854
pORF_+_2789295	b2661	gabD		RTS_R4+_855
pORF_+_2790751	b2662	gabT		RTS_R4+_855
pORF_+_2795542	b2668	ygaP	U	RTS_R4+_857
pORF_+_2798156	b2672	ygaM	U	RTS_R4+_859
pORF_+_2798745	b2673	nrdH		RTS_R4+_860
pORF_+_2799370	b2675	nrdE		RTS_R4+_860
pORF_+_2802564	b2677	proV		RTS_R4+_861
pORF_+_2805112	b2679	proX		RTS_R4+_861

pORF+_2808792	b2684	mprA		RTS_R4+_863
pORF+_2809437	b2685	emrA		RTS_R4+_863
pORF+_2823854	b2702	srlA		RTS_R4+_866
pORF+_2827069	b2707	srlR		RTS_R4+_867
pORF+_2827835	b2708	gutQ	U	RTS_R4+_868
pORF+_2849023	b2727	hypB		RTS_R4+_872
pORF+_2849859	b2728	hypC		RTS_R4+_872
pORF+_2851276	b2730	hypE		RTS_R4+_873
pORF+_2852324	b2731	fhlA		RTS_R4+_874
pORF+_2855115	b2733	mutS		RTS_R4+_875
pORF+_2899918	b2776	ycgE	U	
pORF+_2913079	b2786	barA		RTS_R4+_881
pORF+_2923370	b2794	queF		RTS_R4+_882
pORF+_2924330	b2795	ygdH	U	RTS_R4+_883
pORF+_2926251	b2796	sdaC	U	RTS_R4+_884
pORF+_2927598	b2797	sdaB		RTS_R4+_884
pORF+_2928987	b2798	ygdG		RTS_R4+_884
pORF+_2933606	b2802	fucI		
pORF+_2936910	b2804	fucU		RTS_R4+_885
pORF+_2937381	b2805	fucR		RTS_R4+_885
pORF+_2942564	b2811	csdE	U	RTS_R4+_888
pORF+_2947198	b2818	argA		RTS_R4+_891
pORF+_2969293	b2833	ygdR	U	RTS_R4+_894
pORF+_2969619	b2834	tas	U	RTS_R4+_895
pORF+_2974621	b2837	galR		RTS_R4+_896
pORF+_3009483	b2874	yqeA	U	RTS_R4+_902
pORF+_3014082	b2878	ygfK	U	RTS_R4+_904
pORF+_3019338	b2881	xdhD	U	RTS_R4+_904
pORF+_3029260	b2888	ygfU	U	
pORF+_3031087	b2889	idi		RTS_R4+_906
pORF+_3037877	b2895	fldB		RTS_R4+_907
pORF+_3039335	b2898	ygfZ	U	RTS_R4+_908
pORF+_3041666	b2901	bglA		RTS_R4+_909
pORF+_3053634	b2910	zapA		RTS_R4+_910
pORF+_3057709	b2916	argP		RTS_R4+_913
pORF+_3061009	b2918	argK		
pORF+_3079716	b2936	yggG	U	RTS_R4+_915
pORF+_3084716	b2942	metK		RTS_R4+_916
pORF+_3088366	b2945	endA		RTS_R4+_917
pORF+_3089129	b2946	rsmE	U	RTS_R4+_918
pORF+_3089900	b2947	gshB		RTS_R4+_918
pORF+_3090887	b2948	yqgE	U	RTS_R4+_919
pORF+_3091396	b2949	yqgF	U	RTS_R4+_919
pORF+_3093120	b2951	yggS	U	RTS_R4+_920
pORF+_3094703	b2954	rdgB		RTS_R4+_921
pORF+_3095289	b2955	yggW	U	RTS_R4+_921
pORF+_3102115	b2962	yggX		RTS_R4+_925
pORF+_3102452	b2963	mltC		RTS_R4+_925
pORF+_3103688	b2964	nupG		RTS_R4+_926
pORF+_3128200	b2982	insH		RTS_R4+_932
pORF+_3136701	b2989	yghU	U	RTS_R4+_933
pORF+_3145919	b3001	yghZ		RTS_R4+_934
pORF+_3147684	b3003	yghA	U	RTS_R4+_935
pORF+_3150123	b3008	metC		RTS_R4+_936
pORF+_3151585	b3009	yghB	U	RTS_R4+_937
pORF+_3153353	b3011	yqhD		RTS_R4+_938
pORF+_3153651				RTS_R4+_938
pORF+_3154645	b3012	dkgA		RTS_R4+_939
pORF+_3156649	b3014	yqhH	U	
pORF+_3168506	b3026	qseC		RTS_R4+_940
pORF+_3170552	b3028	mdaB		RTS_R4+_941
pORF+_3171164	b3029	ygiN		RTS_R4+_942
pORF+_3176098	b3035	tolC		RTS_R4+_944

pORF+_3177733	b3037	ygiB	U	RTS_R4+_945
pORF+_3178443	b3038	ygiC	U	RTS_R4+_945
pORF+_3180530	b3040	zupT		RTS_R4+_947
pORF+_3182802	b3042	yqiC	U	RTS_R4+_948
pORF+_3183436	b3043	ygiL	U	
pORF+_3190230	b3050	yqiJ	U	
pORF+_3190886	b3051	yqiK	U	
pORF+_3199229	b3055	htrG	U	RTS_R4+_950
pORF+_3199913	b3056	cca		RTS_R4+_951
pORF+_3208803	b3065	rpsU		RTS_R4+_953
pORF+_3209129	b3066	dnaG		RTS_R4+_953
pORF+_3211069	b3067	rpoD		RTS_R4+_954
pORF+_3214801	b3071	yqjI	U	RTS_R4+_956
pORF+_3217405	b3073	ygjG		RTS_R4+_957
pORF+_3219488	b3075	ebgR		RTS_R4+_958
pORF+_3229687	b3081	fadH		RTS_R4+_959
pORF+_3235315	b3087	ygjR	U	RTS_R4+_961
pORF+_3237966	b3089	sstT		RTS_R4+_963
pORF+_3244659	b3094	exuR		RTS_R4+_965
pORF+_3246976	b3097	yqjC	U	RTS_R4+_967
pORF+_3247397	b3098	yqjD	U	RTS_R4+_967
pORF+_3249025	b3102	yqjG	U	RTS_R4+_969
pORF+_3253059	b3107	yhaL	U	RTS_R4+_972
pORF+_3265846	b3120	yhaB	U	
pORF+_3275024	b3129	sohA	U	RTS_R4+_975
pORF+_3276936	b3132	kbaZ		
pORF+_3281165	b3137	kbaY		
pORF+_3283353	b3140	agaD		
pORF+_3286761	b3144	yraJ	U	
pORF+_3291392	b3147	yraM	U	RTS_R4+_976
pORF+_3293831	b3149	diaA		RTS_R4+_977
pORF+_3294431	b3150	yraP	U	RTS_R4+_978
pORF+_3296954	b3153	yhbO	U	RTS_R4+_979
pORF+_3301470	b3160	yhbW	U	RTS_R4+_982
pORF+_3316659	b3172	argG		RTS_R4+_983
pORF+_3325812	b3180	yhbY	U	RTS_R4+_984
pORF+_3326985	b3182	dacB		RTS_R4+_985
pORF+_3331732	b3187	ispB		RTS_R4+_986
pORF+_3338297	b3196	yrbG	U	RTS_R4+_987
pORF+_3339267	b3197	kdsD		RTS_R4+_987
pORF+_3340295	b3198	kdsC		RTS_R4+_988
pORF+_3340858	b3199	yrbK	U	RTS_R4+_988
pORF+_3341381	b3200	lptA	U	RTS_R4+_989
pORF+_3341966	b3201	lptB	U	RTS_R4+_989
pORF+_3342739	b3202	rpoN		RTS_R4+_990
pORF+_3344111	b3203	hpf	U	RTS_R4+_991
pORF+_3344576	b3204	ptsN		RTS_R4+_991
pORF+_3345137	b3205	yhbJ	U	RTS_R4+_991
pORF+_3345988	b3206	npr		RTS_R4+_991
pORF+_3346417	b3207	yrbL	U	RTS_R4+_992
pORF+_3352639	b3212	gltB		RTS_R4+_996
pORF+_3357220	b3213	gltD		RTS_R4+_996
pORF+_3360811	b3216	yhcD	U	RTS_R4+_998
pORF+_3364948	b3219	yhcF	U	RTS_R4+_999
pORF+_3372873	b3227	dcuD	U	
pORF+_3378207	b3233	yhcB	U	RTS_R4+_1000
pORF+_3378723	b3234	degQ		RTS_R4+_1001
pORF+_3380222	b3235	degS		RTS_R4+_1002
pORF+_3382725	b3237	argR		RTS_R4+_1003
pORF+_3383509	b3238	yhcN	U	RTS_R4+_1004
pORF+_3387542	b3243	aaeR	U	RTS_R4+_1006
pORF+_3401506	b3253	yhdH	U	RTS_R4+_1011
pORF+_3403458	b3255	accB		RTS_R4+_1013

pORF+_3403900	b3256	accC		RTS_R4+_1013
pORF+_3407092	b3259	prmA		RTS_R4+_1015
pORF+_3408302	b3260	dusB		RTS_R4+_1016
pORF+_3409293	b3261	fis		RTS_R4+_1016
pORF+_3411886	b3265	acrE		
pORF+_3413055	b3266	acrF		
pORF+_3416412	b3267	yhdV	U	RTS_R4+_1018
pORF+_3420458	b3271	yhdZ	U	RTS_R4+_1019
pORF+_3427042	b3279	yrdA	U	RTS_R4+_1020
pORF+_3431712	b3287	def		RTS_R4+_1021
pORF+_3432236	b3288	fmt		RTS_R4+_1021
pORF+_3433208	b3289	rsmB		RTS_R4+_1021
pORF+_3434540	b3290	trkA		RTS_R4+_1021
pORF+_3436046	b3291	mscL		RTS_R4+_1022
pORF+_3456361	b3326	gspE		RTS_R4+_1023
pORF+_3475662	b3348	slyX	U	RTS_R4+_1024
pORF+_3479311	b3352	yheS	U	RTS_R4+_1026
pORF+_3482240	b3354	yheU	U	RTS_R4+_1027
pORF+_3482512	b3355	prkB	U	RTS_R4+_1027
pORF+_3484142	b3357	crp		RTS_R4+_1028
pORF+_3492033	b3365	nirB		RTS_R4+_1030
pORF+_3495850	b3368	cysG		RTS_R4+_1031
pORF+_3502008	b3375	frlR	U	RTS_R4+_1033
pORF+_3520869	b3396	mrcA		RTS_R4+_1035
pORF+_3524491	b3398	yrfF	U	RTS_R4+_1036
pORF+_3527370	b3400	hslR		RTS_R4+_1038
pORF+_3527790	b3401	hslO		RTS_R4+_1038
pORF+_3530771	b3403	pck		RTS_R4+_1039
pORF+_3535407	b3407	yhgF	U	RTS_R4+_1041
pORF+_3538417	b3409	feoB		RTS_R4+_1042
pORF+_3543646	b3414	gntY	U	RTS_R4+_1044
pORF+_3544581	b3415	gntT		RTS_R4+_1045
pORF+_3551107	b3418	malT	U	RTS_R4+_1046
pORF+_3560021	b3426	glpD		RTS_R4+_1048
pORF+_3584966	b3448	yhhA	U	RTS_R4+_1053
pORF+_3596007	b3459	yhhK	U	RTS_R4+_1055
pORF+_3602416	b3465	rsmD	U	RTS_R4+_1056
pORF+_3604474	b3469	zntA		RTS_R4+_1058
pORF+_3607924	b3472	dcrB		RTS_R4+_1060
pORF+_3611690	b3476	nikA		RTS_R4+_1062
pORF+_3615799	b3480	nikE		RTS_R4+_1063
pORF+_3616611	b3481	nikR		RTS_R4+_1063
pORF+_3635665	b3493	pitA		RTS_R4+_1067
pORF+_3638134	b3495	uspA		RTS_R4+_1068
pORF+_3643357	b3499	yhiR	U	RTS_R4+_1070
pORF+_3644322	b3500	gor		RTS_R4+_1071
pORF+_3646937	b3502	arsB		RTS_R4+_1073
pORF+_3648260	b3503	arsC		RTS_R4+_1074
pORF+_3651951	b3506	slp		RTS_R4+_1075
pORF+_3656311	b3512	gadE		RTS_R4+_1077
pORF+_3657255	b3513	mdtE		RTS_R4+_1078
pORF+_3658437	b3514	mdtF		RTS_R4+_1078
pORF+_3672809	b3523	yhjE	U	RTS_R4+_1085
pORF+_3677094	b3526	kdgK		RTS_R4+_1086
pORF+_3694481	b3536	bcsE	U	RTS_R4+_1087
pORF+_3696237	b3538	bcsG	U	RTS_R4+_1087
pORF+_3714570	b3552	viaD	U	RTS_R4+_1093
pORF+_3715321	b3553	ghrB		RTS_R4+_1094
pORF+_3718072	b3556	cspA		RTS_R4+_1096
pORF+_3719221	b3558	insK	U	
pORF+_3729076	b3566	xyfF		
pORF+_3737623	b3572	avtA		RTS_R4+_1101
pORF+_3744117	b3579	viaO	U	

pORF+_3746600	b3581	sgbH		
pORF+_3764345	b3594	yibA	U	RTS_R4+_1104
pORF+_3766986	b4651	yibW	U	RTS_R4+_1106
pORF+_3770304	b3599	mtlA		RTS_R4+_1107
pORF+_3772129	b3600	mtlD		RTS_R4+_1108
pORF+_3774688	b3602	yibL	U	RTS_R4+_1109
pORF+_3775395	b3603	lldP		RTS_R4+_1110
pORF+_3777850	b3605	lldD		RTS_R4+_1110
pORF+_3779238	b3606	yibK	U	RTS_R4+_1111
pORF+_3783139	b3612	gpmM		RTS_R4+_1112
pORF+_3784837	b3613	envC		RTS_R4+_1113
pORF+_3786124	b3614	yibQ	U	RTS_R4+_1114
pORF+_3792010	b3619	rfaD		RTS_R4+_1115
pORF+_3792952	b3620	rfaF		RTS_R4+_1115
pORF+_3794971	b3622	rfaL		RTS_R4+_1116
pORF+_3806563	b3633	waaA		RTS_R4+_1117
pORF+_3807680	b3634	coaD		RTS_R4+_1118
pORF+_3810682	b3639	dfp		RTS_R4+_1119
pORF+_3811952	b3640	dut		RTS_R4+_1120
pORF+_3812475	b3641	slmA		RTS_R4+_1120
pORF+_3814699	b3644	yicC	U	RTS_R4+_1121
pORF+_3816843	b3646	yicG	U	
pORF+_3819394	b3648	gmk		RTS_R4+_1122
pORF+_3820129	b3649	rpoZ		RTS_R4+_1123
pORF+_3820423	b3650	spoT		RTS_R4+_1123
pORF+_3822538	b3651	trmH		RTS_R4+_1123
pORF+_3823200	b3652	recG		RTS_R4+_1123
pORF+_3826959	b3654	yicE	U	RTS_R4+_1124
pORF+_3828456	b3655	yicH	U	RTS_R4+_1125
pORF+_3841987	b3665	ade		RTS_R4+_1129
pORF+_3865676	b3688	yidQ	U	RTS_R4+_1134
pORF+_3882359	b3703	rpmH		RTS_R4+_1136
pORF+_3882516	b3704	rnpA		RTS_R4+_1136
pORF+_3883099	b3705	yidC		RTS_R4+_1137
pORF+_3884851	b3706	mnmE		RTS_R4+_1138
pORF+_3886738	b3708	tnaA		
pORF+_3892675	b3713	yieF		RTS_R4+_1141
pORF+_3894797	b3715	yieH	U	RTS_R4+_1142
pORF+_3925178	b3744	asnA		RTS_R4+_1146
pORF+_3929339	b3747	kup		RTS_R4+_1147
pORF+_3931338	b3748	rbsD	U	RTS_R4+_1148
pORF+_3931801	b3749	rbsA		RTS_R4+_1148
pORF+_3934295	b3751	rbsB		RTS_R4+_1148
pORF+_3935290	b3752	rbsK		RTS_R4+_1149
pORF+_3936250	b3753	rbsR		RTS_R4+_1150
pORF+_3946109	b3764	yifE	U	RTS_R4+_1154
pORF+_3948583	b4488	ilvG	U	RTS_R4+_1156
pORF+_3949646	b4488	ilvG	U	RTS_R4+_1156
pORF+_3950441	b3770	ilvE		RTS_R4+_1156
pORF+_3951501	b3771	ilvD		RTS_R4+_1156
pORF+_3953354	b3772	ilvA		RTS_R4+_1156
pORF+_3955858	b3774	ilvC		RTS_R4+_1157
pORF+_3958649	b3778	rep		RTS_R4+_1158
pORF+_3963679	b3781	trxA		RTS_R4+_1160
pORF+_3964368	b3783	rho		RTS_R4+_1161
pORF+_3967051	b3785	wzzE		RTS_R4+_1163
pORF+_3968114	b3786	rffE		RTS_R4+_1164
pORF+_3969283	b3787	rffD		RTS_R4+_1164
pORF+_3970545	b3788	rffG		RTS_R4+_1164
pORF+_3971631	b3789	rffH		RTS_R4+_1164
pORF+_3973169	b3791	rffA		RTS_R4+_1164
pORF+_3974301	b3792	wzxE		RTS_R4+_1164
pORF+_3975548	b4481	rffT		RTS_R4+_1164

pORF+_3976624	b3793	wzyE	U	RTS_R4+_1164
pORF+_3977979	b3794	rffM		RTS_R4+_1164
pORF+_3989176	b3806	cyaA		RTS_R4+_1169
pORF+_3992545	b4558	yifL	U	RTS_R4+_1170
pORF+_3992782	b3809	dapF		RTS_R4+_1170
pORF+_3993606	b3810	yigA	U	RTS_R4+_1170
pORF+_3994310	b3811	xerC		RTS_R4+_1170
pORF+_3995206	b3812	yigB	U	RTS_R4+_1170
pORF+_3995817	b3813	uvrD		RTS_R4+_1171
pORF+_3999434	b3816	corA		RTS_R4+_1172
pORF+_4002885	b3821	pldA		RTS_R4+_1173
pORF+_4003881	b3822	recQ		RTS_R4+_1174
pORF+_4007193	b3825	pldB		RTS_R4+_1175
pORF+_4008097	b3826	yigL	U	RTS_R4+_1175
pORF+_4011076	b3829	metE		RTS_R4+_1177
pORF+_4014448	b3831	udp		RTS_R4+_1178
pORF+_4015356	b3832	rmuC	U	RTS_R4+_1178
pORF+_4016878	b3833	ubiE		RTS_R4+_1179
pORF+_4017602	b3834	yigP	U	RTS_R4+_1179
pORF+_4018249	b3835	ubiB		RTS_R4+_1179
pORF+_4019926	b3836	tatA		RTS_R4+_1180
pORF+_4020241	b3838	tatB		RTS_R4+_1180
pORF+_4023011	b3843	ubiD		RTS_R4+_1181
pORF+_4024517	b3844	fre		RTS_R4+_1181
pORF+_4029184	b3847	pepQ		RTS_R4+_1182
pORF+_4031168	b3849	trkH		RTS_R4+_1183
pORF+_4032631	b3850	hemG		RTS_R4+_1183
pORF+_4040062	b3858	yihD	U	RTS_R4+_1185
pORF+_4040438	b3859	rdoA		RTS_R4+_1186
pORF+_4041441	b3860	dsbA		RTS_R4+_1187
pORF+_4044989	b3863	polA		RTS_R4+_1188
pORF+_4049307	b3866	yihI	U	RTS_R4+_1191
pORF+_4050062	b3867	hemN		RTS_R4+_1191
pORF+_4056430	b3871	typA		RTS_R4+_1192
pORF+_4059188	b3873	yihM	U	
pORF+_4072668	b3884	yihW	U	RTS_R4+_1193
pORF+_4073555	b3885	yihX	U	RTS_R4+_1193
pORF+_4075038	b3887	dtd		RTS_R4+_1194
pORF+_4075472	b3888	yiiD	U	RTS_R4+_1194
pORF+_4084039	b3895	fdhD		RTS_R4+_1195
pORF+_4098827	b3908	sodA		RTS_R4+_1196
pORF+_4100815	b3910	yiiM	U	RTS_R4+_1197
pORF+_4103840	b4484	cpxP		RTS_R4+_1198
pORF+_4104474	b3915	fieF		RTS_R4+_1199
pORF+_4105479	b3916	pfkA		RTS_R4+_1200
pORF+_4106857	b3917	sbp		RTS_R4+_1201
pORF+_4107761	b3918	cdh		RTS_R4+_1202
pORF+_4110990	b3922	yiiS	U	RTS_R4+_1204
pORF+_4111316	b3923	uspD		RTS_R4+_1204
pORF+_4116520	b3928	yiiU	U	RTS_R4+_1205
pORF+_4125036	b3936	rpmE		RTS_R4+_1207
pORF+_4126518	b3939	metB		RTS_R4+_1208
pORF+_4127858	b3940	metL		RTS_R4+_1208
pORF+_4130639	b3941	metF		RTS_R4+_1209
pORF+_4131819	b3942	katG		RTS_R4+_1210
pORF+_4153024	b3958	argC		RTS_R4+_1213
pORF+_4154003	b3959	argB		RTS_R4+_1213
pORF+_4154873	b3960	argH		RTS_R4+_1213
pORF+_4156483	b3961	oxyR		RTS_R4+_1214
pORF+_4159051	b3963	fabR		RTS_R4+_1215
pORF+_4161617	b3966	btuB		RTS_R4+_1216
pORF+_4163439	b3967	murI		RTS_R4+_1217
pORF+_4170080	b3972	murB		RTS_R4+_1219

pORF_+_4171105	b3973	birA		RTS_R4_+_1219
pORF_+_4173967	b3980	tufB		RTS_R4_+_1220
pORF_+_4175381	b3981	secE		RTS_R4_+_1221
pORF_+_4175766	b3982	nusG		RTS_R4_+_1221
pORF_+_4176470	b3983	rplK		RTS_R4_+_1222
pORF_+_4176902	b3984	rplA		RTS_R4_+_1222
pORF_+_4178019	b3985	rplJ		RTS_R4_+_1223
pORF_+_4178583	b3986	rplL		RTS_R4_+_1223
pORF_+_4179235	b3987	rpoB		RTS_R4_+_1224
pORF_+_4183373	b3988	rpoC		RTS_R4_+_1224
pORF_+_4194926	b3996	nudC		RTS_R4_+_1225
pORF_+_4195739	b3997	hemE		RTS_R4_+_1226
pORF_+_4196807	b3998	nfi		RTS_R4_+_1227
pORF_+_4197527	b3999	yjaG	U	RTS_R4_+_1228
pORF_+_4198304	b4000	hupA		RTS_R4_+_1229
pORF_+_4211221	b4011	yjaA	U	
pORF_+_4212303	b4013	metA		RTS_R4_+_1233
pORF_+_4213483	b4014	aceB		RTS_R4_+_1234
pORF_+_4215117	b4015	aceA		RTS_R4_+_1234
pORF_+_4216619	b4016	aceK		RTS_R4_+_1235
pORF_+_4221830	b4019	metH		RTS_R4_+_1236
pORF_+_4225754	b4020	yjbB	U	RTS_R4_+_1237
pORF_+_4228377	b4022	rluF		RTS_R4_+_1238
pORF_+_4231775	b4025	pgi		RTS_R4_+_1239
pORF_+_4244717	b4035	malk		RTS_R4_+_1242
pORF_+_4245994	b4036	lamB		RTS_R4_+_1242
pORF_+_4247568	b4037	malM		RTS_R4_+_1242
pORF_+_4250418	b4039	ubiC		RTS_R4_+_1243
pORF_+_4254660	b4042	dgkA		RTS_R4_+_1244
pORF_+_4255138	b4043	lexA		RTS_R4_+_1245
pORF_+_4257254	b4045	yjbJ	U	RTS_R4_+_1247
pORF_+_4259686	b4049	dusA		RTS_R4_+_1248
pORF_+_4262337	b4052	dnaB		RTS_R4_+_1249
pORF_+_4263805	b4053	alr		RTS_R4_+_1249
pORF_+_4265095	b4054	tyrB		RTS_R4_+_1250
pORF_+_4267197	b4055	aphA		RTS_R4_+_1251
pORF_+_4268261	b4056	yjbQ	U	RTS_R4_+_1252
pORF_+_4268681	b4057	yjbR	U	RTS_R4_+_1252
pORF_+_4272085	b4059	ssb		RTS_R4_+_1253
pORF_+_4276502	b4064	yjcD	U	RTS_R4_+_1256
pORF_+_4278003	b4065	yjcE	U	RTS_R4_+_1257
pORF_+_4285754	b4070	nrfA		
pORF_+_4289511	b4074	nrfE		
pORF_+_4292504	b4077	gltP		RTS_R4_+_1258
pORF_+_4327383	b4110	yjcZ	U	RTS_R4_+_1263
pORF_+_4328492	b4111	proP		RTS_R4_+_1264
pORF_+_4339934	b4119	melA		RTS_R4_+_1265
pORF_+_4349866	b4126	yjdI	U	RTS_R4_+_1266
pORF_+_4368711	b4142	groS		RTS_R4_+_1270
pORF_+_4369048	b4143	groL		RTS_R4_+_1271
pORF_+_4370799	b4144	yjeI	U	RTS_R4_+_1272
pORF_+_4373722	b4147	efp		RTS_R4_+_1273
pORF_+_4374340	b4410	ecnA		RTS_R4_+_1274
pORF_+_4374576	b4411	ecnB		RTS_R4_+_1275
pORF_+_4380621	b4155	poxA	U	RTS_R4_+_1277
pORF_+_4389483	b4162	orn		RTS_R4_+_1278
pORF_+_4392068	b4167	yjeF	U	RTS_R4_+_1280
pORF_+_4393608	b4168	yjeE		RTS_R4_+_1281
pORF_+_4394073	b4169	amiB		RTS_R4_+_1281
pORF_+_4395432	b4170	mutL		RTS_R4_+_1282
pORF_+_4397275	b4171	miaA		RTS_R4_+_1283
pORF_+_4398311	b4172	hfq		RTS_R4_+_1284
pORF_+_4398695	b4173	hflX	U	RTS_R4_+_1284

pORF_+_4400061	b4174	hflK		RTS_R4_+_1284
pORF_+_4401323	b4175	hflC		RTS_R4_+_1284
pORF_+_4402710	b4177	purA		RTS_R4_+_1286
pORF_+_4404213	b4178	nsrR	U	RTS_R4_+_1288
pORF_+_4404635	b4179	rnr		RTS_R4_+_1288
pORF_+_4407298	b4180	rlmB		RTS_R4_+_1289
pORF_+_4411036	b4186	yjfC	U	
pORF_+_4412280	b4187	aidB		RTS_R4_+_1290
pORF_+_4414975	b4190	yjfp	U	RTS_R4_+_1291
pORF_+_4420011	b4196	ulaD		
pORF_+_4423141	b4200	rpsF		RTS_R4_+_1292
pORF_+_4423862	b4202	rpsR		RTS_R4_+_1292
pORF_+_4424131	b4203	rplI		RTS_R4_+_1292
pORF_+_4426799	b4207	fkfB		RTS_R4_+_1294
pORF_+_4427887	b4208	cycA		RTS_R4_+_1295
pORF_+_4434778	b4214	cysQ		RTS_R4_+_1298
pORF_+_4440405	b4220	ytfM	U	RTS_R4_+_1301
pORF_+_4442135	b4221	ytfN	U	RTS_R4_+_1301
pORF_+_4445917	b4222	ytfP	U	RTS_R4_+_1301
pORF_+_4447985	b4227	ytfQ	U	RTS_R4_+_1303
pORF_+_4449081	b4485	ytfR	U	RTS_R4_+_1303
pORF_+_4453808	b4233	mpl		RTS_R4_+_1304
pORF_+_4455982	b4235	pmbA	U	RTS_R4_+_1305
pORF_+_4465648	b4242	mgta		RTS_R4_+_1307
pORF_+_4472147	b4251	yjgJ	U	RTS_R4_+_1309
pORF_+_4472876	b4252	yjgK	U	RTS_R4_+_1310
pORF_+_4476496	b4255	rraB	U	RTS_R4_+_1312
pORF_+_4484241	b4261	yjgP	U	RTS_R4_+_1313
pORF_+_4485338	b4262	yjgQ	U	RTS_R4_+_1313
pORF_+_4494773	b4271	intB	U	RTS_R4_+_1316
pORF_+_4503295	b4280	yjhC	U	RTS_R4_+_1318
pORF_+_4538950	b4312	fimB		RTS_R4_+_1328
pORF_+_4541138	b4314	fimA		RTS_R4_+_1330
pORF_+_4542327	b4316	fimC		RTS_R4_+_1331
pORF_+_4546822	b4320	fimH		RTS_R4_+_1333
pORF_+_4549623	b4322	uxuA		RTS_R4_+_1335
pORF_+_4550924	b4323	uxuB		RTS_R4_+_1335
pORF_+_4552599	b4324	uxuR		RTS_R4_+_1336
pORF_+_4584972	b4351	mrr		RTS_R4_+_1345
pORF_+_4589680	b4355	tsr		RTS_R4_+_1346
pORF_+_4605826	b4372	holD		RTS_R4_+_1349
pORF_+_4606208	b4373	rimI		RTS_R4_+_1349
pORF_+_4606669	b4374	yjjG		RTS_R4_+_1349
pORF_+_4607410	b4375	prfC		RTS_R4_+_1349
pORF_+_4609341	b4376	osmY		RTS_R4_+_1350
pORF_+_4611504	b4378	yjjV	U	RTS_R4_+_1351
pORF_+_4615322	b4381	deoC		RTS_R4_+_1353
pORF_+_4616252	b4382	deoA		RTS_R4_+_1353
pORF_+_4617626	b4383	deoB		RTS_R4_+_1354
pORF_+_4618849	b4384	deoD		RTS_R4_+_1354
pORF_+_4622780	b4388	serB		RTS_R4_+_1356
pORF_+_4623887	b4389	radA	U	RTS_R4_+_1356
pORF_+_4625317	b4390	nadR		RTS_R4_+_1357
pORF_+_4628726	b4392	slt		RTS_R4_+_1358
pORF_+_4630783	b4393	trpR		RTS_R4_+_1359
pORF_+_4631820	b4395	ytjC		RTS_R4_+_1360
pORF_+_4633544	b4397	creA	U	RTS_R4_+_1361
pORF_+_4634030	b4398	creB		RTS_R4_+_1361
pORF_+_4634719	b4399	creC		RTS_R4_+_1361
pORF_+_4638944	b4403	yjtD	U	RTS_R4_+_1364
pORF_-_5683	b0006	yaaA	U	RTS_R4_-_1
pORF_-_20815	b0023	rpsT		RTS_R4_-_7
pORF_-_50380	b0049	apaH		RTS_R4_-_11

pORF_-_51609	b0051	ksgA		RTS_R4_-_12
pORF_-_52427	b0052	pdxA		RTS_R4_-_13
pORF_-_53416	b0053	surA		RTS_R4_-_13
pORF_-_54755	b0054	imp		RTS_R4_-_14
pORF_-_59687	b0058	rluA		RTS_R4_-_15
pORF_-_60358	b0059	hepA		RTS_R4_-_15
pORF_-_65855	b0061	araD		RTS_R4_-_17
pORF_-_66835	b0062	araA		RTS_R4_-_17
pORF_-_68348	b0063	araB		RTS_R4_-_17
pORF_-_72229	b0066	thiQ		RTS_R4_-_18
pORF_-_72911	b0067	thiP		RTS_R4_-_18
pORF_-_74497	b0068	tbpA		RTS_R4_-_18
pORF_-_75644	b0069	sgrR		RTS_R4_-_19
pORF_-_78848	b0071	leuD		RTS_R4_-_20
pORF_-_79464	b0072	leuC		RTS_R4_-_20
pORF_-_80867	b0073	leuB		RTS_R4_-_20
pORF_-_81958	b0074	leuA		RTS_R4_-_20
pORF_-_111649	b0101	yacG	U	RTS_R4_-_21
pORF_-_111856	b0102	yacF	U	RTS_R4_-_21
pORF_-_112599	b0103	coaE		RTS_R4_-_22
pORF_-_117752	b0109	nadC		RTS_R4_-_24
pORF_-_120178	b0112	aroP		RTS_R4_-_25
pORF_-_134788	b0120	speD		RTS_R4_-_26
pORF_-_135598	b0121	speE		RTS_R4_-_26
pORF_-_136570	b0122	yacC	U	RTS_R4_-_27
pORF_-_138835	b0124	gcd		RTS_R4_-_28
pORF_-_142008	b0126	can		RTS_R4_-_29
pORF_-_146314	b0131	panD		RTS_R4_-_30
pORF_-_147944	b0133	panC		RTS_R4_-_31
pORF_-_148807	b0134	panB		RTS_R4_-_31
pORF_-_152829	b0139	htrE	U	
pORF_-_157253	b0142	folK		RTS_R4_-_32
pORF_-_157729	b0143	pcnB		RTS_R4_-_32
pORF_-_160149	b0145	dksA		RTS_R4_-_33
pORF_-_173602	b0154	hemL		RTS_R4_-_36
pORF_-_178455	b0159	mtn		RTS_R4_-_37
pORF_-_183709	b0163	yaeH	U	RTS_R4_-_38
pORF_-_184257	b0164	yaeI	U	RTS_R4_-_39
pORF_-_185123	b0166	dapD		RTS_R4_-_39
pORF_-_185978	b0167	glnD		RTS_R4_-_40
pORF_-_188712	b0168	map		RTS_R4_-_41
pORF_-_213678	b0189	rof		RTS_R4_-_42
pORF_-_213925	b4406	yaeP	U	RTS_R4_-_42
pORF_-_217057	b0194	proS		RTS_R4_-_43
pORF_-_218887	b0195	yaeB	U	RTS_R4_-_44
pORF_-_219591	b0196	rscF	U	RTS_R4_-_44
pORF_-_220113	b0197	metQ		RTS_R4_-_45
pORF_-_220968	b0198	metI		RTS_R4_-_45
pORF_-_221614	b0199	metN		RTS_R4_-_45
pORF_-_229967	b0208	yafC	U	RTS_R4_-_46
pORF_-_234027	b0212	gloB	U	RTS_R4_-_48
pORF_-_235535	b0214	rnhA		RTS_R4_-_49
pORF_-_239419	b0219	yafV	U	RTS_R4_-_50
pORF_-_240859	b0221	fadE		RTS_R4_-_51
pORF_-_246242	b0226	dinJ	U	RTS_R4_-_53
pORF_-_254259	b0237	pepD		RTS_R4_-_55
pORF_-_258269	b0241	phoE		
pORF_-_262914	b0246	yafW		
pORF_-_264844	b0250	ykfB	U	RTS_R4_-_57
pORF_-_273325	b0259	insH		RTS_R4_-_59
pORF_-_287628	b0272	yagI	U	RTS_R4_-_63
pORF_-_288525	b0273	argF		RTS_R4_-_64
pORF_-_294920	b0281	intF	U	RTS_R4_-_67

pORF_-_296994	b0283	yagQ	U	RTS_R4_-_68
pORF_-_300155	b0285	yagS	U	RTS_R4_-_68
pORF_-_306031	b0291	yagX	U	RTS_R4_-_71
pORF_-_309308	b0293	matB	U	RTS_R4_-_71
pORF_-_311598	b4506	ykgO		RTS_R4_-_72
pORF_-_311738	b0296	ykgM		RTS_R4_-_72
pORF_-_317900	b0304	ykgC	U	RTS_R4_-_75
pORF_-_326485	b0312	betB		RTS_R4_-_76
pORF_-_327971	b0313	betI		RTS_R4_-_76
pORF_-_346081	b0330	prpR		RTS_R4_-_79
pORF_-_360473	b0342	lacA		
pORF_-_361150	b0343	lacY		
pORF_-_365652	b0345	lacI		RTS_R4_-_81
pORF_-_366811	b0346	mhpR		RTS_R4_-_81
pORF_-_376759	b0355	frmB	U	RTS_R4_-_82
pORF_-_377686	b0356	frmA		RTS_R4_-_83
pORF_-_378830	b0357	frmR		RTS_R4_-_83
pORF_-_387977	b0369	hemB		RTS_R4_-_86
pORF_-_390963	b0372	insF		RTS_R4_-_87
pORF_-_391826	b0373	insE		RTS_R4_-_87
pORF_-_394354	b0376	ampH		RTS_R4_-_88
pORF_-_399053	b0381	ddlA		RTS_R4_-_90
pORF_-_404059	b0386	proC		RTS_R4_-_92
pORF_-_408332	b0393	rdgC		RTS_R4_-_94
pORF_-_411831	b0397	sbcC		RTS_R4_-_96
pORF_-_414974	b0398	sbcD		RTS_R4_-_96
pORF_-_430353	b0411	tsx		RTS_R4_-_99
pORF_-_436385	b0419	yajO	U	RTS_R4_-_101
pORF_-_437539	b0420	dxs		RTS_R4_-_102
pORF_-_439426	b0421	ispA		RTS_R4_-_103
pORF_-_440325	b0422	xseB		RTS_R4_-_103
pORF_-_442275	b0424	yajL	U	RTS_R4_-_104
pORF_-_442828	b0425	panE		RTS_R4_-_104
pORF_-_447874	b0431	cyoB		RTS_R4_-_106
pORF_-_449887	b0432	cyoA		RTS_R4_-_106
pORF_-_451294	b0433	ampG		RTS_R4_-_107
pORF_-_452813	b0434	yajG	U	RTS_R4_-_107
pORF_-_464076	b0444	queC	U	RTS_R4_-_108
pORF_-_464836	b0445	ybaE	U	RTS_R4_-_109
pORF_-_473525	b0452	tesB		RTS_R4_-_110
pORF_-_476291	b0457	ylaB	U	RTS_R4_-_112
pORF_-_478591	b0459	maa		RTS_R4_-_114
pORF_-_479314	b0460	hha		RTS_R4_-_115
pORF_-_480478	b0462	acrB		RTS_R4_-_116
pORF_-_483650	b0463	acrA		RTS_R4_-_116
pORF_-_489509	b0467	priC		RTS_R4_-_118
pORF_-_500786	b0478	ybaL	U	RTS_R4_-_121
pORF_-_505827	b0481	ybaK	U	RTS_R4_-_123
pORF_-_508099	b0484	copA		RTS_R4_-_125
pORF_-_514080	b0489	qmcA	U	RTS_R4_-_126
pORF_-_516649	b0492	ybbN	U	RTS_R4_-_127
pORF_-_517564	b0493	ybbO	U	RTS_R4_-_128
pORF_-_518363	b0494	tesA		RTS_R4_-_128
pORF_-_529356	b0503	ybbB		RTS_R4_-_129
pORF_-_542485	b0515	ylbA	U	RTS_R4_-_130
pORF_-_550750	b0522	purK		RTS_R4_-_131
pORF_-_551814	b0523	purE		RTS_R4_-_131
pORF_-_553166	b0525	ppiB		RTS_R4_-_132
pORF_-_555884	b0528	ybcJ	U	RTS_R4_-_134
pORF_-_556098	b0529	folD		RTS_R4_-_134
pORF_-_564038	b0537	intD	U	RTS_R4_-_135
pORF_-_573960	b0552	insH		RTS_R4_-_137
pORF_-_574981	b0553	nmpC	U	RTS_R4_-_138

pORF_-_577823	b0557	borD	U	RTS_R4_-_139
pORF_-_583903	b0565	ompT		RTS_R4_-_142
pORF_-_586314	b0567	ybcH	U	RTS_R4_-_144
pORF_-_587205	b0568	nfrA		RTS_R4_-_144
pORF_-_592551	b0570	cusS		RTS_R4_-_146
pORF_-_593983	b0571	cusR		RTS_R4_-_146
pORF_-_603994	b0578	nfsB		RTS_R4_-_149
pORF_-_604741	b0579	ybdF	U	RTS_R4_-_150
pORF_-_605488	b0581	ybdK	U	RTS_R4_-_151
pORF_-_609477	b0584	fepA		RTS_R4_-_153
pORF_-_618607	b0588	fepC		RTS_R4_-_154
pORF_-_622777	b0592	fepB		RTS_R4_-_155
pORF_-_631612	b0599	ybdH	U	RTS_R4_-_157
pORF_-_634572	b0602	ybdN	U	
pORF_-_637050	b0604	dsbG		RTS_R4_-_158
pORF_-_640662	b0607	uspG		RTS_R4_-_159
pORF_-_642780	b0610	rnk		RTS_R4_-_160
pORF_-_643420	b0611	rna		RTS_R4_-_161
pORF_-_653806	b0621	dcuC		RTS_R4_-_162
pORF_-_658474	b0628	lipA		RTS_R4_-_164
pORF_-_660860	b0630	lipB		RTS_R4_-_165
pORF_-_661602	b0631	ybeD	U	RTS_R4_-_166
pORF_-_661975	b0632	dacA		RTS_R4_-_167
pORF_-_663325	b0633	rlpA		RTS_R4_-_168
pORF_-_665539	b0635	mrda		RTS_R4_-_169
pORF_-_667471	b0636	ybeA	U	RTS_R4_-_169
pORF_-_667942	b0637	ybeB	U	RTS_R4_-_169
pORF_-_669797	b0640	hoIA		RTS_R4_-_171
pORF_-_670828	b0641	rlpB		RTS_R4_-_171
pORF_-_671424	b0642	leuS		RTS_R4_-_171
pORF_-_680946	b0650	hscC		RTS_R4_-_173
pORF_-_682700	b0651	rihA		RTS_R4_-_174
pORF_-_683753	b0652	gltL		RTS_R4_-_175
pORF_-_685152	b0654	gltJ		RTS_R4_-_175
pORF_-_686062	b0655	gltI		RTS_R4_-_176
pORF_-_687220	b0656	insH		RTS_R4_-_177
pORF_-_688566	b0657	Int		RTS_R4_-_178
pORF_-_690129	b0658	ybeX		RTS_R4_-_178
pORF_-_691097	b0659	ybeY	U	RTS_R4_-_179
pORF_-_691561	b0660	ybeZ	U	RTS_R4_-_179
pORF_-_692754	b0661	miaB		RTS_R4_-_180
pORF_-_696736	b0674	asnB		RTS_R4_-_183
pORF_-_698797	b0675	nagD		RTS_R4_-_184
pORF_-_699597	b0676	nagC		RTS_R4_-_185
pORF_-_700826	b0677	nagA		RTS_R4_-_186
pORF_-_702034	b0678	nagB		RTS_R4_-_186
pORF_-_709423	b0683	fur		RTS_R4_-_187
pORF_-_710158	b0684	fldA		RTS_R4_-_188
pORF_-_710828	b0685	ybfE	U	RTS_R4_-_189
pORF_-_711261	b0686	ybfF	U	RTS_R4_-_189
pORF_-_717485	b0693	speF		RTS_R4_-_190
pORF_-_720953	b0695	kdpD		RTS_R4_-_192
pORF_-_752408	b0720	gltA		RTS_R4_-_196
pORF_-_784160	b0753	ybgS	U	RTS_R4_-_199
pORF_-_786066	b0755	gpmA		RTS_R4_-_200
pORF_-_787020	b0756	galM		RTS_R4_-_201
pORF_-_788054	b0757	galK		RTS_R4_-_202
pORF_-_789206	b0758	galT		RTS_R4_-_202
pORF_-_790262	b0759	galE		RTS_R4_-_202
pORF_-_791539	b0760	modF		RTS_R4_-_203
pORF_-_793079	b0761	modE		RTS_R4_-_204
pORF_-_796836	b0766	ybhA	U	RTS_R4_-_205
pORF_-_805221	b0772	ybhC	U	RTS_R4_-_207

pORF_-_806656	b0773	ybhB	U	RTS_R4_-_208
pORF_-_807191	b0774	bioA		RTS_R4_-_209
pORF_-_814962	b0780	ybhK	U	RTS_R4_-_210
pORF_-_821721	b0789	ybhO		RTS_R4_-_211
pORF_-_824225	b0792	ybhR	U	RTS_R4_-_212
pORF_-_826468	b0794	ybhF	U	RTS_R4_-_212
pORF_-_828197	b0795	ybhG	U	RTS_R4_-_213
pORF_-_829195	b0796	ybiH	U	RTS_R4_-_213
pORF_-_836888	b0802	ybiJ	U	RTS_R4_-_215
pORF_-_837753	b0804	ybiX	U	RTS_R4_-_217
pORF_-_838472	b0805	fiu	U	RTS_R4_-_218
pORF_-_842478	b0808	ybiO	U	RTS_R4_-_220
pORF_-_844964	b0809	glnQ		RTS_R4_-_221
pORF_-_846481	b0811	glnH		RTS_R4_-_221
pORF_-_847631	b0812	dps		RTS_R4_-_222
pORF_-_854047	b0819	ybiS	U	RTS_R4_-_226
pORF_-_857019	b0821	ybiU	U	RTS_R4_-_227
pORF_-_858436	b0822	ybiV	U	RTS_R4_-_227
pORF_-_859397	b0823	ybiW	U	
pORF_-_863603	b0826	moeB		RTS_R4_-_228
pORF_-_864352	b0827	moeA		RTS_R4_-_228
pORF_-_875933	b0835	yliG	U	RTS_R4_-_229
pORF_-_879077	b0838	yliJ	U	RTS_R4_-_230
pORF_-_881199	b0840	deoR		RTS_R4_-_231
pORF_-_884539	b0844	ybjI	U	RTS_R4_-_232
pORF_-_885354	b0845	ybjJ	U	RTS_R4_-_232
pORF_-_887357	b0847	ybjL	U	RTS_R4_-_234
pORF_-_889719	b0849	grxA		RTS_R4_-_235
pORF_-_899067	b0860	artJ		RTS_R4_-_236
pORF_-_900757	b0862	artQ		RTS_R4_-_237
pORF_-_901480	b0863	artI		RTS_R4_-_237
pORF_-_902229	b0864	artP		RTS_R4_-_237
pORF_-_903175	b0865	ybjP	U	RTS_R4_-_238
pORF_-_904963	b0868	ybjS	U	RTS_R4_-_239
pORF_-_907516	b0870	ltaE		RTS_R4_-_240
pORF_-_908554	b0871	poxB		RTS_R4_-_241
pORF_-_917351	b0877	ybjX	U	RTS_R4_-_246
pORF_-_921589	b0880	cspD		RTS_R4_-_247
pORF_-_925448	b0884	infA		RTS_R4_-_249
pORF_-_926697	b0886	cydC		RTS_R4_-_251
pORF_-_928419	b0887	cydD		RTS_R4_-_251
pORF_-_930308	b0888	trxB		RTS_R4_-_252
pORF_-_944154	b0897	ycaC	U	RTS_R4_-_253
pORF_-_949563	b0902	pflA		RTS_R4_-_255
pORF_-_950495	b0903	pflB		RTS_R4_-_256
pORF_-_952832	b0904	focA		RTS_R4_-_257
pORF_-_954095	b0905	ycaO	U	RTS_R4_-_258
pORF_-_983742	b0928	aspC		RTS_R4_-_261
pORF_-_985117	b0929	ompF		RTS_R4_-_262
pORF_-_986808	b0930	asnS		RTS_R4_-_263
pORF_-_988377	b0931	pncB		RTS_R4_-_264
pORF_-_992500	b0933	ssuB		RTS_R4_-_265
pORF_-_994066	b0935	ssuD		RTS_R4_-_265
pORF_-_1005714	b0947	ycbX	U	RTS_R4_-_267
pORF_-_1015175	b0954	fabA		RTS_R4_-_268
pORF_-_1015762	b0955	ycbZ	U	RTS_R4_-_269
pORF_-_1018236	b0957	ompA		RTS_R4_-_270
pORF_-_1020953	b0960	yccS	U	RTS_R4_-_272
pORF_-_1023125	b0961	yccF	U	RTS_R4_-_272
pORF_-_1025780	b0963	mgsA		RTS_R4_-_273
pORF_-_1026334	b0964	yccT	U	RTS_R4_-_274
pORF_-_1027627	b0966	hspQ		RTS_R4_-_275
pORF_-_1028002	b0967	yccW	U	RTS_R4_-_276

pORF_-_1029562	b0969	yccK	U	RTS_R4_-_277
pORF_-_1041253	b0981	etk		RTS_R4_-_282
pORF_-_1045072	b0984	gfcD	U	RTS_R4_-_282
pORF_-_1047168	b0985	gfcC	U	RTS_R4_-_282
pORF_-_1056485	b0995	torR		RTS_R4_-_284
pORF_-_1061773	b0999	cbpM		RTS_R4_-_285
pORF_-_1062078	b1000	cbpA		RTS_R4_-_285
pORF_-_1066087	b1003	yccJ	U	RTS_R4_-_286
pORF_-_1066335	b1004	wrbA		RTS_R4_-_286
pORF_-_1074143	b1014	putA		RTS_R4_-_289
pORF_-_1087062	b1023	pgaB	U	
pORF_-_1089089	b1024	pgaA	U	
pORF_-_1093498	b1026	insF		RTS_R4_-_293
pORF_-_1094361	b1027	insE		RTS_R4_-_293
pORF_-_1100074	b1037	csgG		RTS_R4_-_295
pORF_-_1100934	b1038	csgF	U	RTS_R4_-_295
pORF_-_1101769	b1040	csgD		RTS_R4_-_295
pORF_-_1113030	b1051	msyB	U	RTS_R4_-_297
pORF_-_1113487	b1053	mdtG	U	RTS_R4_-_298
pORF_-_1114885	b1054	lpxL		RTS_R4_-_299
pORF_-_1117124	b1056	yceI	U	RTS_R4_-_300
pORF_-_1118691	b1059	solA		RTS_R4_-_301
pORF_-_1119924	b1060	bssS	U	RTS_R4_-_302
pORF_-_1120465	b1061	dinI		RTS_R4_-_303
pORF_-_1120784	b1062	pyrC		RTS_R4_-_304
pORF_-_1121936	b1063	yceB	U	RTS_R4_-_305
pORF_-_1122630	b1064	grxB		RTS_R4_-_305
pORF_-_1123341	b1065	mdtH	U	
pORF_-_1128637	b1070	flgN		RTS_R4_-_306
pORF_-_1129058	b1071	flgM		RTS_R4_-_306
pORF_-_1140405	b1084	rne		RTS_R4_-_307
pORF_-_1145234	b1087	yceF	U	RTS_R4_-_308
pORF_-_1158585	b1102	fhuE		RTS_R4_-_310
pORF_-_1167423	b1111	ycfQ	U	RTS_R4_-_311
pORF_-_1168635	b1113	ycfS	U	RTS_R4_-_312
pORF_-_1169741	b1114	mfd		RTS_R4_-_313
pORF_-_1181006	b1123	potD		RTS_R4_-_314
pORF_-_1183681	b1126	potA		RTS_R4_-_314
pORF_-_1186342	b1128	ycfD	U	RTS_R4_-_315
pORF_-_1187539	b1129	phoQ		RTS_R4_-_316
pORF_-_1188999	b1130	phoP		RTS_R4_-_316
pORF_-_1189839	b1131	purB		RTS_R4_-_317
pORF_-_1191213	b1132	hflD	U	RTS_R4_-_317
pORF_-_1191890	b1133	mnmA		RTS_R4_-_317
pORF_-_1193050	b1134	nudJ		RTS_R4_-_318
pORF_-_1196756	b1138	ymfE	U	
pORF_-_1198902	b1140	intE	U	RTS_R4_-_319
pORF_-_1201482	b1145	ymfK		RTS_R4_-_321
pORF_-_1212551	b1162	ycgE	U	RTS_R4_-_325
pORF_-_1221528	b1171	ymgD	U	RTS_R4_-_327
pORF_-_1221867	b1172	ymgG	U	RTS_R4_-_327
pORF_-_1223502	b1174	minE		RTS_R4_-_328
pORF_-_1223772	b1175	minD		RTS_R4_-_328
pORF_-_1224608	b1176	minC		RTS_R4_-_328
pORF_-_1226294	b1178	ycgK	U	RTS_R4_-_330
pORF_-_1232114				RTS_R4_-_332
pORF_-_1232399	b1186	nhaB		RTS_R4_-_333
pORF_-_1234932	b1188	ycgB	U	RTS_R4_-_334
pORF_-_1239558	b1191	cvrA	U	RTS_R4_-_335
pORF_-_1241389	b1192	ldcA		RTS_R4_-_335
pORF_-_1243016	b1194	ycgR		RTS_R4_-_336
pORF_-_1244902	b1197	treA		RTS_R4_-_337
pORF_-_1246919	b1198	dhaM	U	RTS_R4_-_338

pORF_-_1248348	b1199	dhaL		RTS_R4_-_338
pORF_-_1248991	b1200	dhaK		RTS_R4_-_338
pORF_-_1252308	b1202	ycgV	U	RTS_R4_-_339
pORF_-_1255944	b1203	ychF	U	RTS_R4_-_340
pORF_-_1257152	b1204	pth		RTS_R4_-_341
pORF_-_1258347	b1206	ychM	U	RTS_R4_-_342
pORF_-_1260151	b1207	prs		RTS_R4_-_343
pORF_-_1261249	b1208	ispE		RTS_R4_-_344
pORF_-_1262100	b1209	loiB		RTS_R4_-_344
pORF_-_1272469	b1219	ychN	U	RTS_R4_-_352
pORF_-_1274402	b1221	narL		RTS_R4_-_353
pORF_-_1275045	b1222	narX		RTS_R4_-_353
pORF_-_1287005	b1232	purU		RTS_R4_-_356
pORF_-_1291732	b1237	hns		RTS_R4_-_358
pORF_-_1294669	b1241	adhE		RTS_R4_-_359
pORF_-_1304845	b1248	yciU	U	RTS_R4_-_360
pORF_-_1305209	b1249	cls		RTS_R4_-_360
pORF_-_1307040	b1250	kch		RTS_R4_-_361
pORF_-_1308593	b1251	yciI	U	RTS_R4_-_362
pORF_-_1309872	b1253	yciA	U	RTS_R4_-_363
pORF_-_1312742	b1257	yciE	U	RTS_R4_-_365
pORF_-_1313294	b1258	yciF	U	RTS_R4_-_365
pORF_-_1313880	b1259	yciG	U	RTS_R4_-_365
pORF_-_1314440	b1260	trpA		RTS_R4_-_366
pORF_-_1315246	b1261	trpB		RTS_R4_-_366
pORF_-_1316451	b1262	trpC		RTS_R4_-_366
pORF_-_1317813	b1263	trpD		RTS_R4_-_367
pORF_-_1319408	b1264	trpE		RTS_R4_-_367
pORF_-_1325791	b1270	btuR		RTS_R4_-_368
pORF_-_1326378	b1271	yciK	U	RTS_R4_-_368
pORF_-_1328441	b1273	yciN	U	RTS_R4_-_369
pORF_-_1336594	b1277	ribA		RTS_R4_-_370
pORF_-_1341134	b1283	osmB		RTS_R4_-_371
pORF_-_1341621	b1284	yciT	U	RTS_R4_-_372
pORF_-_1342460	b4596	yciZ	U	RTS_R4_-_373
pORF_-_1345002	b1286	rnb		RTS_R4_-_375
pORF_-_1347004	b1287	yciW	U	RTS_R4_-_376
pORF_-_1348275	b1288	fabI		RTS_R4_-_377
pORF_-_1349852	b1290	sapF	U	RTS_R4_-_378
pORF_-_1350660	b1291	sapD	U	RTS_R4_-_378
pORF_-_1352529	b1293	sapB	U	RTS_R4_-_378
pORF_-_1353491	b1294	sapA	U	RTS_R4_-_379
pORF_-_1355447	b1295	ymjA	U	RTS_R4_-_380
pORF_-_1355826	b1296	puuP		RTS_R4_-_381
pORF_-_1357514	b1297	puuA		RTS_R4_-_381
pORF_-_1364959	b1303	pspF		RTS_R4_-_382
pORF_-_1386329	b1324	tpx		RTS_R4_-_384
pORF_-_1387894	b1326	mpaA		RTS_R4_-_385
pORF_-_1392915	b1330	ynaI	U	RTS_R4_-_387
pORF_-_1395696	b1333	uspE		RTS_R4_-_388
pORF_-_1396798	b1334	fnr		RTS_R4_-_389
pORF_-_1404587	b1341	ydaM	U	RTS_R4_-_393
pORF_-_1409037	b1344	ttcA	U	RTS_R4_-_395
pORF_-_1412810	b1350	recE		RTS_R4_-_396
pORF_-_1417789	b1356	racR	U	RTS_R4_-_397
pORF_-_1425770	b1370	insH		RTS_R4_-_400
pORF_-_1431108	b1374	pinR	U	
pORF_-_1433209	b1376	uspF		RTS_R4_-_402
pORF_-_1433784	b1377	ompN		
pORF_-_1435284	b1378	ydbK	U	RTS_R4_-_403
pORF_-_1439345	b1379	hslJ		RTS_R4_-_404
pORF_-_1439878	b1380	ldhA		RTS_R4_-_405
pORF_-_1449621	b1387	maoC		RTS_R4_-_408

pORF_-_1480279	b1412	azoR		RTS_R4_-_410
pORF_-_1487985	b4493	gapC	U	RTS_R4_-_411
pORF_-_1488621				RTS_R4_-_411
pORF_-_1492172	b1422	ydcI	U	RTS_R4_-_413
pORF_-_1518987	b1451	yncD	U	RTS_R4_-_419
pORF_-_1522505	b1453	ansP		RTS_R4_-_420
pORF_-_1531306	b1462	yddH	U	RTS_R4_-_421
pORF_-_1532989	b1464	yddE	U	RTS_R4_-_422
pORF_-_1534638	b1466	narW		RTS_R4_-_423
pORF_-_1536874	b1468	narZ		RTS_R4_-_423
pORF_-_1542782	b1471	yddK	U	
pORF_-_1543762	b1472	yddL	U	
pORF_-_1550422	b1477	yddM	U	RTS_R4_-_425
pORF_-_1550852	b1478	adhP		RTS_R4_-_426
pORF_-_1551996	b1479	maeA		RTS_R4_-_427
pORF_-_1553850	b1480	sra		RTS_R4_-_428
pORF_-_1556055	b1484	ddpD		RTS_R4_-_430
pORF_-_1558955	b1487	ddpA		RTS_R4_-_430
pORF_-_1563782	b1490	yddV	U	RTS_R4_-_431
pORF_-_1566978	b1492	gadC	U	RTS_R4_-_433
pORF_-_1568669	b1493	gadB		RTS_R4_-_434
pORF_-_1570431	b1494	pqqL	U	RTS_R4_-_435
pORF_-_1573271	b1495	yddB	U	
pORF_-_1578866	b1498	ydeN	U	
pORF_-_1582231	b1501	ydeP	U	RTS_R4_-_436
pORF_-_1588878	b1507	hipA		RTS_R4_-_439
pORF_-_1592133	b1510	ydeK	U	RTS_R4_-_440
pORF_-_1596641	b1511	lsrK		RTS_R4_-_441
pORF_-_1598312	b1512	lsrR		RTS_R4_-_441
pORF_-_1607253	b1521	uxaB		RTS_R4_-_443
pORF_-_1610349	b1524	yneH	U	RTS_R4_-_444
pORF_-_1611339	b1525	sad	U	RTS_R4_-_445
pORF_-_1622129	b1536	ydeI	U	RTS_R4_-_450
pORF_-_1623359	b1538	dcp		RTS_R4_-_451
pORF_-_1635633	b1550	gnsB	U	RTS_R4_-_456
pORF_-_1636479	b1552	cspI		
pORF_-_1637054	b1553	ydfP	U	
pORF_-_1639363	b1557	cspB		RTS_R4_-_457
pORF_-_1643657	b1564	relB		RTS_R4_-_459
pORF_-_1650920	b1580	rspB	U	
pORF_-_1664548	b1593	ynfK	U	RTS_R4_-_465
pORF_-_1672996	b1602	pntB		RTS_R4_-_471
pORF_-_1674395	b1603	pntA		RTS_R4_-_471
pORF_-_1683209	b1611	fumC		RTS_R4_-_474
pORF_-_1684755	b1612	fumA		RTS_R4_-_475
pORF_-_1694486	b1618	uidR		RTS_R4_-_477
pORF_-_1695297	b1619	hdhA		RTS_R4_-_478
pORF_-_1701292	b1624	ydgJ	U	RTS_R4_-_480
pORF_-_1713050	b1636	pdxY		RTS_R4_-_482
pORF_-_1713972	b1637	tyrS		RTS_R4_-_483
pORF_-_1715375	b1638	pdxH		RTS_R4_-_484
pORF_-_1716517	b1640	anmK	U	RTS_R4_-_486
pORF_-_1718414	b1642	slyA		RTS_R4_-_487
pORF_-_1722158	b1646	sodC		RTS_R4_-_489
pORF_-_1722760	b1647	ydhF	U	RTS_R4_-_490
pORF_-_1731778	b1654	grxD	U	RTS_R4_-_492
pORF_-_1734145	b1657	ydhP	U	RTS_R4_-_493
pORF_-_1740625	b1662	ribC		RTS_R4_-_496
pORF_-_1742895	b1664	ydhQ	U	RTS_R4_-_497
pORF_-_1749752	b1673	ydhV	U	RTS_R4_-_498
pORF_-_1752956	b1675	ydhZ	U	RTS_R4_-_499
pORF_-_1755745	b1678	ynhG	U	RTS_R4_-_501
pORF_-_1756898	b1679	sufE		RTS_R4_-_502

pORF_-_1757327	b1680	sufS		RTS_R4_-_502
pORF_-_1758544	b1681	sufD		RTS_R4_-_502
pORF_-_1759790	b1682	sufC		RTS_R4_-_502
pORF_-_1760546	b1683	sufB		RTS_R4_-_502
pORF_-_1762042	b1684	sufA		RTS_R4_-_502
pORF_-_1762958	b1685	ydiH	U	RTS_R4_-_504
pORF_-_1763246	b1686	ydiI	U	RTS_R4_-_505
pORF_-_1763653	b1687	ydiJ	U	RTS_R4_-_505
pORF_-_1782758	b1702	pps		RTS_R4_-_507
pORF_-_1787832	b1706	ydiU	U	RTS_R4_-_508
pORF_-_1790833	b1709	btuD		RTS_R4_-_511
pORF_-_1791582	b1710	btuE	U	RTS_R4_-_511
pORF_-_1793277	b1712	ihfA		RTS_R4_-_513
pORF_-_1793581	b1713	pheT		RTS_R4_-_514
pORF_-_1795983	b1714	pheS		RTS_R4_-_514
pORF_-_1797417	b1716	rplT		RTS_R4_-_515
pORF_-_1797826	b1717	rpmI		RTS_R4_-_516
pORF_-_1798120	b1718	infC		RTS_R4_-_517
pORF_-_1798666	b1719	thrS		RTS_R4_-_518
pORF_-_1803349	b1722	ydiY	U	RTS_R4_-_519
pORF_-_1806721	b1726	yniB	U	RTS_R4_-_520
pORF_-_1817479	b1736	chbA		RTS_R4_-_523
pORF_-_1817880	b1737	chbC		RTS_R4_-_523
pORF_-_1819323	b1738	chbB		RTS_R4_-_523
pORF_-_1819942	b1739	osmE		RTS_R4_-_524
pORF_-_1823164	b1743	spy		RTS_R4_-_526
pORF_-_1824940	b1745	astB		RTS_R4_-_527
pORF_-_1826280	b1746	astD		RTS_R4_-_527
pORF_-_1827755	b1747	astA		RTS_R4_-_527
pORF_-_1828786	b1748	astC		RTS_R4_-_527
pORF_-_1843023	b1763	topB		RTS_R4_-_532
pORF_-_1844989	b1764	selD		RTS_R4_-_532
pORF_-_1846149	b1765	ydjA	U	RTS_R4_-_533
pORF_-_1852120	b1770	ydjF	U	RTS_R4_-_534
pORF_-_1853015	b1771	ydjG	U	
pORF_-_1854005	b1772	ydjH	U	
pORF_-_1858280	b1776	ydjL	U	
pORF_-_1859726	b1777	yeaC	U	RTS_R4_-_535
pORF_-_1860040	b1778	msrB		RTS_R4_-_535
pORF_-_1863750	b1782	mipA		RTS_R4_-_537
pORF_-_1878145	b1798	leuE		RTS_R4_-_542
pORF_-_1886085	b1805	fadD		RTS_R4_-_545
pORF_-_1887975	b1806	yeaY	U	RTS_R4_-_546
pORF_-_1888596	b1807	yeaZ	U	RTS_R4_-_547
pORF_-_1892576	b1811	yoaH	U	RTS_R4_-_549
pORF_-_1898053	b1816	yoaE	U	RTS_R4_-_552
pORF_-_1904275	b1822	rrmA		RTS_R4_-_553
pORF_-_1905250	b1823	cspC		RTS_R4_-_554
pORF_-_1907332	b1827	kdgR	U	RTS_R4_-_556
pORF_-_1909719	b1829	htpX	U	RTS_R4_-_557
pORF_-_1910792	b1830	prc		RTS_R4_-_558
pORF_-_1912860	b1831	proQ	U	RTS_R4_-_558
pORF_-_1913655	b1832	yebR		RTS_R4_-_559
pORF_-_1921389	b1839	yebY	U	RTS_R4_-_562
pORF_-_1922619	b1841	yobA	U	RTS_R4_-_562
pORF_-_1927072	b1846	yebE	U	RTS_R4_-_565
pORF_-_1928058	b1847	yebF	U	RTS_R4_-_566
pORF_-_1928481	b1848	yebG	U	RTS_R4_-_567
pORF_-_1930139	b1850	eda		RTS_R4_-_568
pORF_-_1930817	b1851	edd		RTS_R4_-_569
pORF_-_1932863	b1852	zwf		RTS_R4_-_570
pORF_-_1937246	b1855	lpxM		RTS_R4_-_571
pORF_-_1938337	b1856	yebA	U	RTS_R4_-_572

pORF_-_1939675	b1857	znuA		RTS_R4_-_572
pORF_-_1942370	b1860	ruvB		RTS_R4_-_573
pORF_-_1943389	b1861	ruvA		RTS_R4_-_573
pORF_-_1944879	b1863	ruvC		RTS_R4_-_574
pORF_-_1945435	b1864	yebC	U	RTS_R4_-_575
pORF_-_1946774	b1866	aspS		RTS_R4_-_575
pORF_-_1952602	b1872	torZ		RTS_R4_-_576
pORF_-_1956544	b1874	cutC		RTS_R4_-_577
pORF_-_1957304	b1875	yecM	U	RTS_R4_-_577
pORF_-_1960996	b1879	flhA	U	RTS_R4_-_578
pORF_-_1964417	b1881	cheZ		RTS_R4_-_578
pORF_-_1965072	b1882	cheY		RTS_R4_-_578
pORF_-_1965476	b1883	cheB		RTS_R4_-_578
pORF_-_1967407	b1885	tap		RTS_R4_-_578
pORF_-_1969054	b1886	tar		RTS_R4_-_578
pORF_-_1970860	b1887	cheW		
pORF_-_1971384	b1888	cheA		RTS_R4_-_579
pORF_-_1973353	b1889	motB		RTS_R4_-_579
pORF_-_1974276	b1890	motA		RTS_R4_-_579
pORF_-_1975871	b1892	flhD		RTS_R4_-_580
pORF_-_1978212	b1896	otsA		RTS_R4_-_582
pORF_-_1979611	b1897	otsB		RTS_R4_-_583
pORF_-_1980578	b4460	araH		RTS_R4_-_584
pORF_-_1983163	b1901	araF		RTS_R4_-_585
pORF_-_1985531	b4537	yecJ	U	RTS_R4_-_586
pORF_-_1987275	b1906	yecH	U	RTS_R4_-_588
pORF_-_1988978	b1908	yecA	U	RTS_R4_-_589
pORF_-_1990898	b1913	uvrC		RTS_R4_-_592
pORF_-_1992727	b1914	uvrY		RTS_R4_-_592
pORF_-_1995086	b1917	yecC	U	RTS_R4_-_594
pORF_-_1995835	b1918	yecS	U	RTS_R4_-_594
pORF_-_1996518	b1919	dcyD		RTS_R4_-_595
pORF_-_1997609	b1920	fliY		RTS_R4_-_596
pORF_-_1999094	b1922	fliA		RTS_R4_-_597
pORF_-_2000134	b1923	fliC		RTS_R4_-_598
pORF_-_2005701	b1928	yedD	U	RTS_R4_-_599
pORF_-_2010724	b1937	fliE		
pORF_-_2024347	b1956	yedQ	U	RTS_R4_-_602
pORF_-_2026473	b1958	yedI	U	RTS_R4_-_603
pORF_-_2028923	b1961	dcm		RTS_R4_-_604
pORF_-_2030408	b1962	yedJ	U	RTS_R4_-_605
pORF_-_2057988	b1987	cbl		RTS_R4_-_612
pORF_-_2060415	b1990	erfK	U	RTS_R4_-_614
pORF_-_2061412	b1991	cobT		RTS_R4_-_615
pORF_-_2064329	b1994	insH		RTS_R4_-_617
pORF_-_2077056	b2007	yeeX	U	RTS_R4_-_622
pORF_-_2078813	b2009	sbmC		RTS_R4_-_623
pORF_-_2079405	b2010	dacD		RTS_R4_-_624
pORF_-_2082250	b2012	yeeD	U	RTS_R4_-_625
pORF_-_2083728	b2014	yeeF	U	RTS_R4_-_626
pORF_-_2086328	b2016	yeeZ	U	RTS_R4_-_627
pORF_-_2087486	b2017	yefM		RTS_R4_-_628
pORF_-_2095345	b2027	cld		RTS_R4_-_629
pORF_-_2097886	b2029	gnd		RTS_R4_-_631
pORF_-_2099919	b2030	insH		RTS_R4_-_633
pORF_-_2100940	b4571	wbbL	U	RTS_R4_-_634
pORF_-_2101415	b2032	wbbK		RTS_R4_-_634
pORF_-_2102518	b2033	wbbJ	U	RTS_R4_-_634
pORF_-_2103089	b2034	wbbI	U	RTS_R4_-_635
pORF_-_2105250	b2036	glf		RTS_R4_-_635
pORF_-_2107605	b2038	rfbC		RTS_R4_-_637
pORF_-_2108162	b2039	rfbA		RTS_R4_-_637
pORF_-_2109101	b2040	rfbD		RTS_R4_-_638

pORF_- _2110000	b2041	rfbB		RTS_R4_- _638
pORF_- _2111458	b2042	galF	U	RTS_R4_- _639
pORF_- _2113931	b2044	wcaL	U	
pORF_- _2119633	b2048	cpsG		
pORF_- _2121108	b2049	cpsB		
pORF_- _2125217	b2053	gmd		
pORF_- _2126928	b2055	wcaE	U	
pORF_- _2130091	b2058	wcaB	U	
pORF_- _2137783	b2064	asmA	U	RTS_R4_- _640
pORF_- _2139658	b2065	dcd		RTS_R4_- _640
pORF_- _2140331	b2066	udk		RTS_R4_- _641
pORF_- _2166013	b2085	yegR	U	
pORF_- _2169857	b2091	gatD		RTS_R4_- _647
pORF_- _2170945	b2092	gatC		RTS_R4_- _647
pORF_- _2172304	b2093	gatB		RTS_R4_- _647
pORF_- _2172619	b2094	gatA		RTS_R4_- _647
pORF_- _2173081	b2095	gatZ		RTS_R4_- _647
pORF_- _2174372	b2096	gatY		RTS_R4_- _647
pORF_- _2175534	b2097	fbaB		RTS_R4_- _648
pORF_- _2180057	b2101	yegW	U	RTS_R4_- _649
pORF_- _2180855	b2102	yegX	U	RTS_R4_- _650
pORF_- _2181738	b2103	thiD		RTS_R4_- _650
pORF_- _2182535	b2104	thiM		RTS_R4_- _650
pORF_- _2183546	b2105	rcnR	U	RTS_R4_- _651
pORF_- _2188948	b2110	yehC	U	RTS_R4_- _652
pORF_- _2191081	b2113	mrp		RTS_R4_- _654
pORF_- _2210265	b2125	yehT	U	RTS_R4_- _657
pORF_- _2214503	b2129	yehX	U	RTS_R4_- _658
pORF_- _2215422	b2130	yehY	U	RTS_R4_- _658
pORF_- _2216586	b2131	osmF	U	RTS_R4_- _658
pORF_- _2217714	b2132	bgIX		RTS_R4_- _659
pORF_- _2221960	b2134	pbpG		RTS_R4_- _660
pORF_- _2223066	b2135	yohC	U	RTS_R4_- _661
pORF_- _2224531	b2137	yohF	U	RTS_R4_- _662
pORF_- _2235791	b2149	mgIA		RTS_R4_- _665
pORF_- _2237372	b2150	mgIB		RTS_R4_- _665
pORF_- _2239832	b2152	yehB	U	RTS_R4_- _666
pORF_- _2241006	b2153	folE		RTS_R4_- _666
pORF_- _2242800	b2155	cirA		RTS_R4_- _667
pORF_- _2245085	b2156	lysP		RTS_R4_- _668
pORF_- _2246759	b2157	yehE	U	RTS_R4_- _669
pORF_- _2252267	b2162	rihB		
pORF_- _2255451	b2165	yehN	U	
pORF_- _2257741	b2167	fruA		RTS_R4_- _671
pORF_- _2259449	b2168	fruK		RTS_R4_- _671
pORF_- _2260387	b2169	fruB		RTS_R4_- _671
pORF_- _2275915	b2181	yeyG	U	RTS_R4_- _672
pORF_- _2277810	b2183	rsuA		RTS_R4_- _673
pORF_- _2280962	b2186	yeyK		RTS_R4_- _674
pORF_- _2287087	b2192	insH		RTS_R4_- _676
pORF_- _2289380	b2194	ccmH		RTS_R4_- _677
pORF_- _2295043	b2201	ccmA		RTS_R4_- _677
pORF_- _2298289	b2206	napA		RTS_R4_- _678
pORF_- _2303130	b2210	mgo		RTS_R4_- _679
pORF_- _2304994	b2211	yoyI	U	RTS_R4_- _680
pORF_- _2309668	b2215	ompC		RTS_R4_- _682
pORF_- _2315049	b2218	rscC		RTS_R4_- _683
pORF_- _2328321	b4500	yfaS	U	
pORF_- _2332358	b2229	yfaT	U	
pORF_- _2332978	b2230	yfaA	U	
pORF_- _2334815	b2231	gyrA		RTS_R4_- _684
pORF_- _2338439	b2233	yfaL		RTS_R4_- _685
pORF_- _2347957	b2239	glpQ		RTS_R4_- _687

pORF_- _2349038	b2240	glpT		RTS_R4_- _687
pORF_- _2360453	b2249	yfaY	U	RTS_R4_- _689
pORF_- _2361755	b2250	yfaZ	U	RTS_R4_- _690
pORF_- _2363040	b2252	ais	U	
pORF_- _2371294	b2259	pmrD		RTS_R4_- _691
pORF_- _2371670	b2260	menE		RTS_R4_- _692
pORF_- _2373022	b2261	menC		RTS_R4_- _692
pORF_- _2373984	b2262	menB		RTS_R4_- _692
pORF_- _2375611	b2264	menD		RTS_R4_- _693
pORF_- _2377370	b2265	menF		RTS_R4_- _693
pORF_- _2378744	b2266	elaB	U	RTS_R4_- _694
pORF_- _2379104	b2267	elaA	U	RTS_R4_- _695
pORF_- _2388070	b2276	nuoN		RTS_R4_- _697
pORF_- _2391227	b2278	nuoL		RTS_R4_- _697
pORF_- _2393065	b2279	nuoK		RTS_R4_- _697
pORF_- _2393364	b2280	nuoJ		RTS_R4_- _697
pORF_- _2393930	b2281	nuoI		RTS_R4_- _697
pORF_- _2395461	b2283	nuoG		RTS_R4_- _697
pORF_- _2398240	b2284	nuoF		RTS_R4_- _697
pORF_- _2399574	b2285	nuoE		RTS_R4_- _697
pORF_- _2400077	b2286	nuoC		RTS_R4_- _697
pORF_- _2401973	b2287	nuoB		RTS_R4_- _697
pORF_- _2402651	b2288	nuoA		RTS_R4_- _697
pORF_- _2403725	b2289	lrhA		RTS_R4_- _698
pORF_- _2409461	b2293	yfbT	U	RTS_R4_- _700
pORF_- _2410122	b2294	yfbU	U	RTS_R4_- _700
pORF_- _2416656	b2299	yfcD	U	RTS_R4_- _702
pORF_- _2417256	b2300	yfcE	U	RTS_R4_- _702
pORF_- _2417863	b2301	yfcF	U	RTS_R4_- _703
pORF_- _2420671	b2305	yfcI	U	RTS_R4_- _704
pORF_- _2421758	b2306	hisP		RTS_R4_- _705
pORF_- _2423252	b2308	hisQ		RTS_R4_- _705
pORF_- _2424028	b2309	hisJ		RTS_R4_- _705
pORF_- _2425031	b2310	argT		RTS_R4_- _706
pORF_- _2426079	b2311	ubiX		RTS_R4_- _707
pORF_- _2426743	b2312	purF		RTS_R4_- _707
pORF_- _2429044	b2314	dedD	U	RTS_R4_- _708
pORF_- _2429696	b2315	folC		RTS_R4_- _709
pORF_- _2431034	b2316	accD		RTS_R4_- _709
pORF_- _2432846	b2318	truA		RTS_R4_- _711
pORF_- _2433658	b2319	usg	U	RTS_R4_- _711
pORF_- _2434737	b2320	pdxB		RTS_R4_- _712
pORF_- _2438407	b2323	fabB		RTS_R4_- _713
pORF_- _2441913	b2325	yfcL	U	RTS_R4_- _714
pORF_- _2443582	b2328	mepA		RTS_R4_- _715
pORF_- _2444410	b2329	aroC		RTS_R4_- _715
pORF_- _2445530	b2330	prmB		RTS_R4_- _715
pORF_- _2454349	b2340	sixA		RTS_R4_- _718
pORF_- _2455037	b2341	fadJ		RTS_R4_- _719
pORF_- _2457181	b2342	fadI		RTS_R4_- _719
pORF_- _2457788				RTS_R4_- _719
pORF_- _2458672	b2343	yfcZ	U	RTS_R4_- _720
pORF_- _2462274	b2346	vacJ	U	RTS_R4_- _721
pORF_- _2490026	b2374	frc		
pORF_- _2491789	b2375	yfdX	U	
pORF_- _2495079	b2379	yfdZ		RTS_R4_- _726
pORF_- _2500012	b2383	fryA	U	
pORF_- _2504669	b2386	fryC	U	
pORF_- _2506483	b2388	glk		RTS_R4_- _727
pORF_- _2509490	b2392	mntH		RTS_R4_- _728
pORF_- _2513665	b2395	yfeA	U	RTS_R4_- _729
pORF_- _2517279	b2400	gltX		RTS_R4_- _731
pORF_- _2519615	b2405	xapR		RTS_R4_- _732

pORF_-_2526183	b2411	ligA		RTS_R4_-_734
pORF_-_2528269	b2412	zipA		RTS_R4_-_735
pORF_-_2534408	b2418	pdxK		RTS_R4_-_736
pORF_-_2536694	b2421	cysM		RTS_R4_-_737
pORF_-_2537739	b2422	cysA		RTS_R4_-_737
pORF_-_2539701	b2424	cysU		RTS_R4_-_737
pORF_-_2540534	b2425	cysP		RTS_R4_-_737
pORF_-_2541854	b2426	ucpA	U	RTS_R4_-_738
pORF_-_2547668	b2431	yfeX	U	RTS_R4_-_740
pORF_-_2548663	b2432	yfeY	U	RTS_R4_-_741
pORF_-_2549735	b2434	ypeA	U	RTS_R4_-_741
pORF_-_2553763	b2439	eutL	U	RTS_R4_-_742
pORF_-_2554432	b2440	eutC		RTS_R4_-_742
pORF_-_2555340	b2441	eutB		RTS_R4_-_742
pORF_-_2563503	b2451	eutA		
pORF_-_2568370	b2455	eutE	U	
pORF_-_2570179	b2457	eutM	U	
pORF_-_2570511	b2458	eutD	U	
pORF_-_2574120	b2463	maeB	U	RTS_R4_-_744
pORF_-_2580925	b2467	nudK	U	RTS_R4_-_746
pORF_-_2581568	b2468	aegA	U	
pORF_-_2591866	b2474	ypfI	U	RTS_R4_-_749
pORF_-_2593896	b2475	ypfJ	U	RTS_R4_-_749
pORF_-_2594927	b2476	purC		RTS_R4_-_750
pORF_-_2595853	b2477	bamC		RTS_R4_-_751
pORF_-_2596904	b2478	dapA		RTS_R4_-_751
pORF_-_2616097	b2496	hda		RTS_R4_-_753
pORF_-_2618268	b2498	upp		RTS_R4_-_755
pORF_-_2628980	b2507	guaA		RTS_R4_-_756
pORF_-_2630626	b2508	guaB		RTS_R4_-_757
pORF_-_2633621	b2510	yfgJ	U	RTS_R4_-_758
pORF_-_2633906	b2511	der	U	RTS_R4_-_759
pORF_-_2635496	b2512	bamB		RTS_R4_-_760
pORF_-_2636685	b2513	yfgM	U	RTS_R4_-_760
pORF_-_2637323	b2514	hisS		RTS_R4_-_760
pORF_-_2638708	b2515	ispG		RTS_R4_-_761
pORF_-_2639853	b2516	yfgA	U	RTS_R4_-_761
pORF_-_2641151	b2517	rlmN	U	RTS_R4_-_762
pORF_-_2642455	b2518	ndk		RTS_R4_-_763
pORF_-_2645348	b2520	yfhM	U	RTS_R4_-_765
pORF_-_2652179	b2522	sseB		RTS_R4_-_767
pORF_-_2653097	b2523	pepB		RTS_R4_-_767
pORF_-_2654558	b2524	iscX	U	RTS_R4_-_768
pORF_-_2654770	b2525	fdx		RTS_R4_-_768
pORF_-_2655107	b2526	hscA		RTS_R4_-_768
pORF_-_2656974	b2527	hscB		RTS_R4_-_769
pORF_-_2657585	b2528	iscA		RTS_R4_-_769
pORF_-_2657925	b2529	iscU		RTS_R4_-_770
pORF_-_2658339	b2530	iscS		RTS_R4_-_770
pORF_-_2659665	b2531	iscR		RTS_R4_-_770
pORF_-_2660605	b2532	trmJ	U	RTS_R4_-_771
pORF_-_2672722	b2545	yphC	U	RTS_R4_-_773
pORF_-_2674872	b2547	yphE	U	RTS_R4_-_774
pORF_-_2677486	b2549	yphG	U	RTS_R4_-_775
pORF_-_2682276	b2551	glyA		RTS_R4_-_776
pORF_-_2685092	b2553	glnB		RTS_R4_-_777
pORF_-_2685491	b2554	yfhA	U	RTS_R4_-_778
pORF_-_2686815	b2555	yfhG	U	RTS_R4_-_778
pORF_-_2687693	b2556	yfhK	U	RTS_R4_-_779
pORF_-_2689678	b2557	purL		RTS_R4_-_780
pORF_-_2698640	b2563	acpS		RTS_R4_-_783
pORF_-_2699020	b2564	pdxJ		RTS_R4_-_783
pORF_-_2700503	b2566	era		RTS_R4_-_783

pORF_- _2701405	b2567	rnc		RTS_R4_- _783
pORF_- _2702357	b2568	lepB		RTS_R4_- _784
pORF_- _2703347	b2569	lepA		RTS_R4_- _784
pORF_- _2705820	b2571	rseB		RTS_R4_- _785
pORF_- _2706776	b2572	rseA		RTS_R4_- _785
pORF_- _2707459	b2573	rpoE		RTS_R4_- _786
pORF_- _2714088	b2579	yfiD		RTS_R4_- _789
pORF_- _2715513	b2581	yfiF	U	RTS_R4_- _790
pORF_- _2722470	b2587	kgfP		RTS_R4_- _791
pORF_- _2729622	b2592	clpB		RTS_R4_- _794
pORF_- _2732325	b2593	yfiH	U	RTS_R4_- _796
pORF_- _2733053	b2594	rluD		RTS_R4_- _796
pORF_- _2736970	b2600	tyrA		RTS_R4_- _798
pORF_- _2738102	b2601	aroF		RTS_R4_- _798
pORF_- _2742205	b2606	rplS		RTS_R4_- _799
pORF_- _2742594	b2607	trmD		RTS_R4_- _799
pORF_- _2743392	b2608	rimM		RTS_R4_- _799
pORF_- _2743959	b2609	rpsP		RTS_R4_- _799
pORF_- _2744456	b2610	ffh		RTS_R4_- _800
pORF_- _2748137	b2614	grpE		RTS_R4_- _801
pORF_- _2752030	b2618	yfjF	U	RTS_R4_- _802
pORF_- _2769862	b2638	yfjU	U	RTS_R4_- _805
pORF_- _2770189	b2641	yfjV	U	RTS_R4_- _806
pORF_- _2776168	b2647	ypjA		RTS_R4_- _807
pORF_- _2794359	b2665	ygaU	U	RTS_R4_- _810
pORF_- _2796113	b2669	stpA		RTS_R4_- _812
pORF_- _2812240	b2687	luxS		RTS_R4_- _817
pORF_- _2812905	b2688	gshA		RTS_R4_- _818
pORF_- _2814959	b2690	yqaB	U	RTS_R4_- _819
pORF_- _2816983	b2696	csrA		RTS_R4_- _824
pORF_- _2817403	b2697	alaS		RTS_R4_- _825
pORF_- _2820161	b2698	recX		
pORF_- _2820730	b2699	recA		RTS_R4_- _826
pORF_- _2821871	b2700	ygaD	U	RTS_R4_- _827
pORF_- _2822513	b2701	mltB		RTS_R4_- _828
pORF_- _2833195	b2712	hypF		RTS_R4_- _830
pORF_- _2836276	b2714	ascG		RTS_R4_- _831
pORF_- _2840595	b2717	hycI		RTS_R4_- _832
pORF_- _2845437	b2723	hycC		
pORF_- _2854475	b2732	ygbA	U	RTS_R4_- _833
pORF_- _2864581	b2741	rpoS		RTS_R4_- _835
pORF_- _2865636	b2742	nlpD	U	RTS_R4_- _836
pORF_- _2866915	b2743	pcm		RTS_R4_- _837
pORF_- _2867535	b2744	surE		RTS_R4_- _837
pORF_- _2868277	b2745	truD		RTS_R4_- _838
pORF_- _2869323	b2746	ispF		RTS_R4_- _838
pORF_- _2869802	b2747	ispD		RTS_R4_- _838
pORF_- _2870531	b2748	ftsB		RTS_R4_- _838
pORF_- _2871409	b2750	cysC		RTS_R4_- _840
pORF_- _2872014	b2751	cysN		RTS_R4_- _840
pORF_- _2873443	b2752	cysD		RTS_R4_- _840
pORF_- _2879073	b2758	ygcJ	U	RTS_R4_- _844
pORF_- _2882575	b2761	ygcB	U	RTS_R4_- _845
pORF_- _2885600	b2762	cysH		RTS_R4_- _847
pORF_- _2886409	b2763	cysI		RTS_R4_- _847
pORF_- _2888121	b2764	cysJ		RTS_R4_- _847
pORF_- _2895986	b4463	ygcU	U	RTS_R4_- _848
pORF_- _2897510	b2774	ygcW	U	RTS_R4_- _848
pORF_- _2902769	b2777	ygcF	U	RTS_R4_- _850
pORF_- _2904665	b2779	eno		RTS_R4_- _851
pORF_- _2906051	b2780	pyrG		RTS_R4_- _852
pORF_- _2907916	b2781	mazG		RTS_R4_- _853
pORF_- _2908778	b2782	chpA		RTS_R4_- _853

pORF_-_2909113	b2783	chpR		RTS_R4_-_853
pORF_-_2909439	b2784	relA		RTS_R4_-_854
pORF_-_2911721	b2785	rumA		RTS_R4_-_855
pORF_-_2916067	b2787	gudD		RTS_R4_-_856
pORF_-_2917428	b2788	gudX	U	RTS_R4_-_856
pORF_-_2920557	b2790	yqcA	U	RTS_R4_-_857
pORF_-_2921024	b2791	truC		RTS_R4_-_857
pORF_-_2921806	b2792	yqcC	U	RTS_R4_-_857
pORF_-_2922757	b2793	syd	U	RTS_R4_-_859
pORF_-_2929887	b2799	fucO		RTS_R4_-_860
pORF_-_2938165	b2806	ygdE	U	RTS_R4_-_861
pORF_-_2939672	b2808	gcvA		RTS_R4_-_862
pORF_-_2940940	b2809	ygdI	U	RTS_R4_-_863
pORF_-_2943058	b2812	ygdL	U	RTS_R4_-_864
pORF_-_2944103	b2813	mltA		RTS_R4_-_865
pORF_-_2948657	b2819	recD		RTS_R4_-_867
pORF_-_2950483	b2820	recB		RTS_R4_-_867
pORF_-_2954018	b2821	ptrA		RTS_R4_-_868
pORF_-_2957082	b2822	recC		RTS_R4_-_869
pORF_-_2962383	b2827	thyA		RTS_R4_-_871
pORF_-_2963184	b2828	lgt		RTS_R4_-_871
pORF_-_2964210	b2829	ptsP		RTS_R4_-_872
pORF_-_2970691	b2835	lplT	U	RTS_R4_-_873
pORF_-_2971877	b2836	aas		RTS_R4_-_874
pORF_-_2975659	b2838	lysA		RTS_R4_-_877
pORF_-_2977965	b2840	ygeA	U	RTS_R4_-_878
pORF_-_2978786	b2841	araE		RTS_R4_-_878
pORF_-_2980519	b2842	kduD		RTS_R4_-_879
pORF_-_2982433	b2844	yqeF	U	RTS_R4_-_880
pORF_-_3002030	b2869	ygeV	U	RTS_R4_-_885
pORF_-_3010636	b2875	yqeB	U	RTS_R4_-_886
pORF_-_3012309	b2876	yqeC	U	RTS_R4_-_886
pORF_-_3027034	b2887	ygfT	U	RTS_R4_-_889
pORF_-_3031679	b2890	lysS		RTS_R4_-_890
pORF_-_3033206				RTS_R4_-_890
pORF_-_3034227				RTS_R4_-_890
pORF_-_3034395	b2892	recJ		RTS_R4_-_891
pORF_-_3036134	b2893	dsbC		RTS_R4_-_891
pORF_-_3036869	b2894	xerD		RTS_R4_-_891
pORF_-_3038826	b2897	ygfY	U	RTS_R4_-_892
pORF_-_3041334	b2900	yqfB	U	RTS_R4_-_894
pORF_-_3043180	b2902	ygfF	U	RTS_R4_-_895
pORF_-_3044190	b2903	gcvP		RTS_R4_-_896
pORF_-_3047182	b2904	gcvH		RTS_R4_-_897
pORF_-_3047595	b2905	gcvT		RTS_R4_-_897
pORF_-_3049137	b2906	visC	U	RTS_R4_-_898
pORF_-_3050362	b2907	ubiH		RTS_R4_-_898
pORF_-_3051537	b2908	pepP		RTS_R4_-_898
pORF_-_3052888	b2909	ygfB	U	RTS_R4_-_898
pORF_-_3055200	b2913	serA		RTS_R4_-_899
pORF_-_3056688	b2914	rpiA		RTS_R4_-_900
pORF_-_3064299	b2921	ygfI	U	
pORF_-_3065362	b2922	yggE	U	RTS_R4_-_901
pORF_-_3066969	b2924	mscS		RTS_R4_-_903
pORF_-_3068187	b2925	fbaA		RTS_R4_-_904
pORF_-_3069481	b2926	pgk		RTS_R4_-_905
pORF_-_3070694	b2927	epd		RTS_R4_-_906
pORF_-_3071998	b2928	yggC	U	RTS_R4_-_907
pORF_-_3075493	b2933	cmtA	U	
pORF_-_3077666	b2935	tktA		RTS_R4_-_908
pORF_-_3080899	b2937	speB		RTS_R4_-_909
pORF_-_3081957	b2938	speA		RTS_R4_-_910
pORF_-_3092122	b2950	yggR	U	

pORF_-_3097704	b2957	ansB		RTS_R4_-_912
pORF_-_3098926	b2958	yggN	U	RTS_R4_-_913
pORF_-_3099829	b2959	yggL	U	RTS_R4_-_914
pORF_-_3100155	b2960	trmI		RTS_R4_-_915
pORF_-_3105042	b2965	speC		RTS_R4_-_916
pORF_-_3110076	b2970	yghF	U	RTS_R4_-_917
pORF_-_3112572	b4466	yghJ	U	RTS_R4_-_919
pORF_-_3117619	b2975	glcA		RTS_R4_-_920
pORF_-_3119656	b2976	glcB		RTS_R4_-_921
pORF_-_3121849	b2977	glcG	U	RTS_R4_-_921
pORF_-_3123492	b4468	glcE		RTS_R4_-_922
pORF_-_3124544	b2979	glcD		RTS_R4_-_922
pORF_-_3129363	b2983	yghQ	U	
pORF_-_3134685	b2988	gsp		RTS_R4_-_923
pORF_-_3139308	b2994	hybC		RTS_R4_-_924
pORF_-_3148840	b3005	exbD		RTS_R4_-_929
pORF_-_3149272	b3006	exbB		RTS_R4_-_929
pORF_-_3156949	b4469	ygiQ	U	RTS_R4_-_932
pORF_-_3159279	b3017	ftsP		RTS_R4_-_933
pORF_-_3160766	b3018	plsC		RTS_R4_-_934
pORF_-_3161737	b3019	parC		RTS_R4_-_935
pORF_-_3164133	b3020	ygiS	U	RTS_R4_-_936
pORF_-_3165873	b3021	ygiT	U	RTS_R4_-_936
pORF_-_3167306	b3024	ygiW	U	RTS_R4_-_937
pORF_-_3171526	b3030	parE		RTS_R4_-_938
pORF_-_3173447	b3031	yqiA	U	RTS_R4_-_939
pORF_-_3174028	b3032	cpdA		RTS_R4_-_939
pORF_-_3175303	b3034	nudF		RTS_R4_-_940
pORF_-_3181835	b3041	ribB		RTS_R4_-_943
pORF_-_3189761	b3049	glgS	U	RTS_R4_-_945
pORF_-_3193342	b3052	rfaE		RTS_R4_-_949
pORF_-_3194823	b3053	glnE		RTS_R4_-_950
pORF_-_3197686	b3054	ygiF	U	RTS_R4_-_950
pORF_-_3207552	b3064	ygjD	U	RTS_R4_-_954
pORF_-_3212989	b3068	mug		RTS_R4_-_955
pORF_-_3213749	b3070	yqjH	U	RTS_R4_-_956
pORF_-_3215578	b3072	aer		RTS_R4_-_957
pORF_-_3231750	b3082	ygjM	U	RTS_R4_-_958
pORF_-_3232761	b3084	rlmG	U	RTS_R4_-_959
pORF_-_3239849	b3091	uxaA		RTS_R4_-_960
pORF_-_3241351	b3092	uxaC		RTS_R4_-_960
pORF_-_3243363				
pORF_-_3251340	b3105	yhaJ	U	RTS_R4_-_961
pORF_-_3253363	b4470	yhaM	U	RTS_R4_-_962
pORF_-_3256307	b4471	tdcG		
pORF_-_3257743	b3113	tdcF	U	
pORF_-_3258146	b3114	tdcE		
pORF_-_3260474	b3115	tdcD		
pORF_-_3261708	b3116	tdcC		
pORF_-_3263061	b3117	tdcB		
pORF_-_3264149	b3118	tdcA		
pORF_-_3268647	b3124	garK		RTS_R4_-_964
pORF_-_3269889	b3125	garR		RTS_R4_-_964
pORF_-_3275878	b3131	agaR		RTS_R4_-_965
pORF_-_3290497	b3146	yraL	U	RTS_R4_-_967
pORF_-_3295120	b3151	yraQ	U	RTS_R4_-_969
pORF_-_3296233	b3152	yraR	U	RTS_R4_-_969
pORF_-_3297494	b3154	yhbP	U	RTS_R4_-_970
pORF_-_3298277	b3156	yhbS	U	RTS_R4_-_971
pORF_-_3303993	b3162	deaD		RTS_R4_-_973
pORF_-_3306062	b3163	nlpI	U	RTS_R4_-_974
pORF_-_3307055	b3164	pnp		RTS_R4_-_975
pORF_-_3309437	b3165	rpsO		RTS_R4_-_976

pORF_-_3309855	b3166	truB		RTS_R4_-_977
pORF_-_3310799	b3167	rbfA		RTS_R4_-_977
pORF_-_3311364	b3168	infB	U	RTS_R4_-_978
pORF_-_3314061	b3169	nusA		RTS_R4_-_978
pORF_-_3315576	b3170	yhbC	U	RTS_R4_-_978
pORF_-_3318010	b3173	yhbX	U	
pORF_-_3320195	b3175	secG		RTS_R4_-_980
pORF_-_3320755	b3176	glmM		RTS_R4_-_981
pORF_-_3322085	b3177	folP		RTS_R4_-_982
pORF_-_3323023	b3178	hflB		RTS_R4_-_983
pORF_-_3325057	b3179	rrmJ		RTS_R4_-_984
pORF_-_3326261	b3181	greA		RTS_R4_-_985
pORF_-_3328604	b3183	obgE		RTS_R4_-_986
pORF_-_3329792	b3184	yhbE	U	RTS_R4_-_987
pORF_-_3330884	b3185	rpmA		RTS_R4_-_988
pORF_-_3331162	b3186	rplU		RTS_R4_-_988
pORF_-_3333257	b3189	murA		RTS_R4_-_989
pORF_-_3334571	b3190	yrbA	U	RTS_R4_-_990
pORF_-_3334985	b3191	yrbB	U	RTS_R4_-_991
pORF_-_3335278	b3192	yrbC	U	RTS_R4_-_991
pORF_-_3335932	b3193	yrbD	U	RTS_R4_-_992
pORF_-_3336488	b3194	yrbE	U	RTS_R4_-_992
pORF_-_3337278	b3195	yrbF	U	RTS_R4_-_992
pORF_-_3347828	b3209	elbB		RTS_R4_-_993
pORF_-_3348711	b3210	arcB		RTS_R4_-_994
pORF_-_3363724	b3218	insH		RTS_R4_-_997
pORF_-_3367497	b3222	nanK	U	RTS_R4_-_999
pORF_-_3368369	b3223	nanE	U	RTS_R4_-_999
pORF_-_3369106	b3224	nanT		RTS_R4_-_999
pORF_-_3370705	b3225	nanA		RTS_R4_-_999
pORF_-_3371720	b3226	nanR		RTS_R4_-_1000
pORF_-_3374301	b3228	sspB		RTS_R4_-_1001
pORF_-_3374804	b3229	sspA		RTS_R4_-_1001
pORF_-_3375837	b3230	rpsI		RTS_R4_-_1002
pORF_-_3376245	b3231	rplM		RTS_R4_-_1002
pORF_-_3376892	b3232	yhcM	U	RTS_R4_-_1003
pORF_-_3381352	b3236	mdh		RTS_R4_-_1004
pORF_-_3383879	b3239	yhcO	U	RTS_R4_-_1005
pORF_-_3388605	b3244	tldD	U	RTS_R4_-_1007
pORF_-_3390480	b4472	yhdP	U	RTS_R4_-_1008
pORF_-_3394348	b3247	rng		RTS_R4_-_1008
pORF_-_3395807	b3248	yhdE	U	RTS_R4_-_1009
pORF_-_3396897	b3250	mreC		RTS_R4_-_1010
pORF_-_3398066	b3251	mreB		RTS_R4_-_1010
pORF_-_3399414	b3252	csrD	U	RTS_R4_-_1011
pORF_-_3428042	b3281	aroE		RTS_R4_-_1014
pORF_-_3428865	b3282	rimN	U	RTS_R4_-_1015
pORF_-_3429442	b3283	yrdD	U	RTS_R4_-_1015
pORF_-_3437638	b3294	rplQ		RTS_R4_-_1019
pORF_-_3438062	b3295	rpoA		RTS_R4_-_1019
pORF_-_3439077	b3296	rpsD		RTS_R4_-_1019
pORF_-_3439731	b3297	rpsK		RTS_R4_-_1019
pORF_-_3440137	b3298	rpsM		RTS_R4_-_1019
pORF_-_3440640	b3299	rpmJ		RTS_R4_-_1019
pORF_-_3440788	b3300	secY		RTS_R4_-_1020
pORF_-_3442127	b3301	rplO		RTS_R4_-_1020
pORF_-_3442565	b3302	rpmD		RTS_R4_-_1020
pORF_-_3442748	b3303	rpsE		RTS_R4_-_1020
pORF_-_3443266	b3304	rplR		RTS_R4_-_1020
pORF_-_3443629	b3305	rplF		RTS_R4_-_1020
pORF_-_3444175	b3306	rpsH		RTS_R4_-_1020
pORF_-_3444601	b3307	rpsN		RTS_R4_-_1020
pORF_-_3444921	b3308	rplE		RTS_R4_-_1020

pORF_-_3445475	b3309	rplX		RTS_R4_-_1020
pORF_-_3445800	b3310	rplN		RTS_R4_-_1020
pORF_-_3446336	b3311	rpsQ		RTS_R4_-_1021
pORF_-_3446590	b3312	rpmC		RTS_R4_-_1021
pORF_-_3446781	b3313	rplP		RTS_R4_-_1021
pORF_-_3447204	b3314	rpsC		RTS_R4_-_1021
pORF_-_3447923	b3315	rplV		RTS_R4_-_1021
pORF_-_3448270	b3316	rpsS		RTS_R4_-_1021
pORF_-_3448565	b3317	rplB		RTS_R4_-_1021
pORF_-_3449404	b3318	rplW		RTS_R4_-_1021
pORF_-_3449703	b3319	rplD		RTS_R4_-_1021
pORF_-_3450319	b3320	rplC		RTS_R4_-_1021
pORF_-_3450981	b3321	rpsJ		RTS_R4_-_1021
pORF_-_3451951	b3323	gspA		RTS_R4_-_1022
pORF_-_3464271	b3336	bfr		RTS_R4_-_1023
pORF_-_3468167	b3339	tufA		RTS_R4_-_1026
pORF_-_3469422	b3340	fusA		RTS_R4_-_1027
pORF_-_3471564	b3341	rpsG		RTS_R4_-_1027
pORF_-_3472200	b3342	rpsL		RTS_R4_-_1027
pORF_-_3472700	b3343	yheL	U	RTS_R4_-_1028
pORF_-_3472995	b3344	yheM	U	RTS_R4_-_1028
pORF_-_3473354	b3345	yheN	U	RTS_R4_-_1028
pORF_-_3473740	b3346	yheO	U	RTS_R4_-_1028
pORF_-_3474629	b3347	fkpA		RTS_R4_-_1029
pORF_-_3475929	b3349	slyD		RTS_R4_-_1030
pORF_-_3483436	b3356	yhfA	U	RTS_R4_-_1032
pORF_-_3486982	b3359	argD		RTS_R4_-_1033
pORF_-_3488288	b3360	pabA		RTS_R4_-_1034
pORF_-_3488883	b3361	fic		RTS_R4_-_1034
pORF_-_3489475	b3362	yhfG	U	RTS_R4_-_1034
pORF_-_3489747	b3363	ppiA		RTS_R4_-_1035
pORF_-_3504054	b3377	yhfT	U	RTS_R4_-_1037
pORF_-_3510656	b3384	trpS		RTS_R4_-_1038
pORF_-_3511653	b3385	gph		RTS_R4_-_1039
pORF_-_3512404	b3386	rpe		RTS_R4_-_1039
pORF_-_3513099	b3387	dam		RTS_R4_-_1040
pORF_-_3514042	b3388	damX	U	RTS_R4_-_1041
pORF_-_3515420	b3389	aroB		RTS_R4_-_1042
pORF_-_3516565	b3390	aroK		RTS_R4_-_1042
pORF_-_3523611	b3397	nudE		RTS_R4_-_1044
pORF_-_3528737	b3402	yhgE	U	RTS_R4_-_1045
pORF_-_3532538	b3404	envZ		RTS_R4_-_1046
pORF_-_3533887	b3405	ompR		RTS_R4_-_1046
pORF_-_3542096	b3412	bioH		RTS_R4_-_1048
pORF_-_3546008	b3416	malQ		RTS_R4_-_1049
pORF_-_3548102	b3417	malP		RTS_R4_-_1049
pORF_-_3557870	b3423	glpR		RTS_R4_-_1051
pORF_-_3558645	b3424	glpG	U	RTS_R4_-_1052
pORF_-_3559520	b3425	glpE		RTS_R4_-_1052
pORF_-_3562157	b3428	glgP		RTS_R4_-_1054
pORF_-_3564623	b3429	glgA		RTS_R4_-_1054
pORF_-_3566056	b3430	glgC		RTS_R4_-_1055
pORF_-_3567369	b3431	glgX		RTS_R4_-_1056
pORF_-_3569339	b3432	glgB		RTS_R4_-_1056
pORF_-_3571798	b3433	asd		RTS_R4_-_1057
pORF_-_3575088	b3437	gntK		RTS_R4_-_1058
pORF_-_3575754	b3438	gntR		RTS_R4_-_1059
pORF_-_3576973	b3439	yhhW	U	RTS_R4_-_1060
pORF_-_3577791	b3440	yhhX	U	RTS_R4_-_1060
pORF_-_3583104	b3447	ggt		RTS_R4_-_1063
pORF_-_3585393	b3449	ugpQ		RTS_R4_-_1064
pORF_-_3586133	b3450	ugpC		RTS_R4_-_1064
pORF_-_3589032	b3453	ugpB		RTS_R4_-_1064

pORF_-_3590747	b3454	livF		RTS_R4_-_1065
pORF_-_3591462	b3455	livG		RTS_R4_-_1065
pORF_-_3592226	b3456	livM		RTS_R4_-_1065
pORF_-_3594474	b3458	livK		RTS_R4_-_1065
pORF_-_3596578	b3460	livJ		RTS_R4_-_1066
pORF_-_3597952	b3461	rpoH		RTS_R4_-_1067
pORF_-_3599051	b3462	ftsX	U	RTS_R4_-_1068
pORF_-_3600102	b3463	ftsE	U	RTS_R4_-_1068
pORF_-_3600773	b3464	ftsY	U	RTS_R4_-_1068
pORF_-_3603274	b3467	yhhM	U	RTS_R4_-_1069
pORF_-_3606774	b3470	sirA	U	RTS_R4_-_1070
pORF_-_3624826	b3486	rbbA	U	RTS_R4_-_1073
pORF_-_3627558	b3487	yhiI	U	RTS_R4_-_1073
pORF_-_3628991	b3488	yhiJ	U	
pORF_-_3634231	b3492	yhiN	U	RTS_R4_-_1074
pORF_-_3640403	b3497	yhiQ	U	RTS_R4_-_1077
pORF_-_3641163	b3498	prlC		RTS_R4_-_1077
pORF_-_3650205	b3505	insH		RTS_R4_-_1080
pORF_-_3653989	b3509	hdeB		RTS_R4_-_1081
pORF_-_3654431	b3510	hdeA		RTS_R4_-_1081
pORF_-_3663009	b3516	gadX		RTS_R4_-_1084
pORF_-_3664203	b3517	gadA		RTS_R4_-_1085
pORF_-_3665814	b3518	yhjA	U	RTS_R4_-_1086
pORF_-_3674313	b3524	yhjG	U	RTS_R4_-_1087
pORF_-_3678467	b3527	yhjJ	U	RTS_R4_-_1089
pORF_-_3680184	b3528	dctA		RTS_R4_-_1090
pORF_-_3681653	b3529	yhjK	U	RTS_R4_-_1091
pORF_-_3699887	b3540	dppF		RTS_R4_-_1095
pORF_-_3700888	b3541	dppD		RTS_R4_-_1095
pORF_-_3701882	b3542	dppC		RTS_R4_-_1095
pORF_-_3702794	b3543	dppB		RTS_R4_-_1095
pORF_-_3704121	b3544	dppA		RTS_R4_-_1095
pORF_-_3706807	b3546	eptB	U	RTS_R4_-_1097
pORF_-_3712084	b3551	bisC		RTS_R4_-_1099
pORF_-_3716357	b3554	yiaF	U	RTS_R4_-_1100
pORF_-_3720351	b3559	glyS		RTS_R4_-_1101
pORF_-_3722430	b3560	glyQ		RTS_R4_-_1101
pORF_-_3725940	b3564	xylB		RTS_R4_-_1103
pORF_-_3727466	b3565	xylA		RTS_R4_-_1103
pORF_-_3739707	b3574	yiaJ	U	RTS_R4_-_1106
pORF_-_3749151	b3584	yiaT	U	RTS_R4_-_1108
pORF_-_3752996	b3588	aldB		RTS_R4_-_1109
pORF_-_3754699	b3589	yiaY	U	
pORF_-_3756040	b3590	selB		RTS_R4_-_1110
pORF_-_3757881	b3591	selA		RTS_R4_-_1110
pORF_-_3759370	b3592	yibF	U	RTS_R4_-_1111
pORF_-_3774194	b4554	yibT	U	RTS_R4_-_1115
pORF_-_3779764	b3607	cysE		RTS_R4_-_1116
pORF_-_3780665	b3608	gpsA		RTS_R4_-_1117
pORF_-_3781684	b3609	secB		RTS_R4_-_1117
pORF_-_3782214	b3610	grxC		RTS_R4_-_1118
pORF_-_3782607	b3611	yibN	U	RTS_R4_-_1119
pORF_-_3787070	b3615	yibD	U	
pORF_-_3788343	b3616	tdh		RTS_R4_-_1120
pORF_-_3789378	b3617	kbl		RTS_R4_-_1120
pORF_-_3796262	b3623	waaU		RTS_R4_-_1122
pORF_-_3798290	b3625	rfaY		RTS_R4_-_1123
pORF_-_3799006	b3626	rfaJ		RTS_R4_-_1124
pORF_-_3800062	b3627	rfaI		RTS_R4_-_1124
pORF_-_3801081	b3628	rfaB		RTS_R4_-_1125
pORF_-_3802204	b3629	rfaS		RTS_R4_-_1126
pORF_-_3805087	b3632	rfaQ		RTS_R4_-_1128
pORF_-_3808366	b3635	mutM		RTS_R4_-_1129

pORF_-_3809273	b3636	rpmG		RTS_R4_-_1130
pORF_-_3809461	b3637	rpmB		RTS_R4_-_1130
pORF_-_3813150	b3642	pyrE		RTS_R4_-_1131
pORF_-_3813886	b3643	rph		RTS_R4_-_1131
pORF_-_3825483	b3653	gltS		RTS_R4_-_1132
pORF_-_3837198	b3661	nlpA		RTS_R4_-_1133
pORF_-_3848159	b3669	uhpA		RTS_R4_-_1135
pORF_-_3848825	b3670	ilvN		RTS_R4_-_1135
pORF_-_3849119	b3671	ilvB		RTS_R4_-_1135
pORF_-_3856424	b3679	yidK	U	
pORF_-_3864492	b3686	ibpB		RTS_R4_-_1139
pORF_-_3865032	b3687	ibpA		RTS_R4_-_1140
pORF_-_3866085	b3689	yidR	U	RTS_R4_-_1141
pORF_-_3869873	b4478	dgoD		RTS_R4_-_1142
pORF_-_3872494	b4479	dgoR	U	RTS_R4_-_1142
pORF_-_3874163	b3697	yidA	U	RTS_R4_-_1143
pORF_-_3875090	b3698	yidB	U	RTS_R4_-_1144
pORF_-_3875728	b3699	gyrB		RTS_R4_-_1145
pORF_-_3878171	b3700	recF		RTS_R4_-_1146
pORF_-_3879244	b3701	dnaN		RTS_R4_-_1147
pORF_-_3880349	b3702	dnaA		RTS_R4_-_1147
pORF_-_3893295	b3714	yieG	U	RTS_R4_-_1149
pORF_-_3900312	b3721	bglB		
pORF_-_3903754	b3723	bglG		
pORF_-_3904876	b3724	phoU		RTS_R4_-_1150
pORF_-_3905616	b3725	pstB		RTS_R4_-_1150
pORF_-_3906572	b3726	pstA		RTS_R4_-_1150
pORF_-_3907462	b3727	pstC		RTS_R4_-_1150
pORF_-_3908508	b3728	pstS		RTS_R4_-_1150
pORF_-_3909862	b3729	glmS		RTS_R4_-_1151
pORF_-_3911853	b3730	glmU		RTS_R4_-_1151
pORF_-_3913576	b3731	atpC		RTS_R4_-_1152
pORF_-_3914016	b3732	atpD		RTS_R4_-_1152
pORF_-_3915425	b3733	atpG		RTS_R4_-_1152
pORF_-_3916339	b3734	atpA		RTS_R4_-_1152
pORF_-_3917893	b3735	atpH		RTS_R4_-_1152
pORF_-_3918441	b3736	atpF		RTS_R4_-_1152
pORF_-_3918973	b3737	atpE		RTS_R4_-_1152
pORF_-_3919259	b3738	atpB		RTS_R4_-_1152
pORF_-_3921080	b3740	gidB		RTS_R4_-_1153
pORF_-_3921767	b3741	mnmG		RTS_R4_-_1153
pORF_-_3924035	b3742	mioC		RTS_R4_-_1154
pORF_-_3924568	b3743	asnC		RTS_R4_-_1155
pORF_-_3926175	b3745	viaA	U	RTS_R4_-_1156
pORF_-_3927620	b3746	ravA	U	RTS_R4_-_1157
pORF_-_3938658	b3755	yieP	U	RTS_R4_-_1158
pORF_-_3945151	b4480	hdfR		RTS_R4_-_1159
pORF_-_3957555	b3775	ppiC		RTS_R4_-_1161
pORF_-_3960768	b3779	gpp		RTS_R4_-_1163
pORF_-_3962388	b3780	rhIB		RTS_R4_-_1163
pORF_-_3984709	b3802	hemY	U	RTS_R4_-_1165
pORF_-_3985908	b3803	hemX	U	RTS_R4_-_1165
pORF_-_3987111	b3804	hemD		RTS_R4_-_1166
pORF_-_3987848	b3805	hemC		RTS_R4_-_1166
pORF_-_3991762	b3807	cyaY		RTS_R4_-_1167
pORF_-_4002253	b3820	yigI	U	RTS_R4_-_1168
pORF_-_4009886	b3828	metR		RTS_R4_-_1170
pORF_-_4013377	b3830	ysgA	U	RTS_R4_-_1171
pORF_-_4022356	b3842	rfaH		RTS_R4_-_1172
pORF_-_4025632	b3845	fadA		RTS_R4_-_1173
pORF_-_4026805	b3846	fadB		RTS_R4_-_1173
pORF_-_4039438	b3857	mobA		RTS_R4_-_1174
pORF_-_4043693	b3862	yihG	U	RTS_R4_-_1175

pORF_-_4048156	b3865	yihA		RTS_R4_-_1176
pORF_-_4051892	b3868	glnG		RTS_R4_-_1178
pORF_-_4053313	b3869	glnL		RTS_R4_-_1178
pORF_-_4054648	b3870	glnA		RTS_R4_-_1179
pORF_-_4065263	b3878	yihQ		
pORF_-_4078322	b3891	fdhE		RTS_R4_-_1180
pORF_-_4079248	b3892	fdoI		RTS_R4_-_1181
pORF_-_4079880	b3893	fdoH		RTS_R4_-_1181
pORF_-_4080795	b3894	fdoG		RTS_R4_-_1181
pORF_-_4083258				RTS_R4_-_1181
pORF_-_4097514	b3907	rhaT		RTS_R4_-_1182
pORF_-_4101625	b3911	cpxA		RTS_R4_-_1184
pORF_-_4102995	b3912	cpxR		RTS_R4_-_1184
pORF_-_4108763	b3919	tpiA		RTS_R4_-_1185
pORF_-_4111749	b3924	fpr		RTS_R4_-_1187
pORF_-_4112592	b3925	glpX		RTS_R4_-_1188
pORF_-_4113737	b3926	glpK		RTS_R4_-_1189
pORF_-_4116868	b3929	rraA		RTS_R4_-_1190
pORF_-_4118439	b3931	hslU		RTS_R4_-_1192
pORF_-_4119780	b3932	hslV		RTS_R4_-_1192
pORF_-_4120403	b3933	ftsN		RTS_R4_-_1193
pORF_-_4121454	b3934	cytR		RTS_R4_-_1194
pORF_-_4122635	b3935	priA		RTS_R4_-_1195
pORF_-_4126101	b3938	metJ		RTS_R4_-_1196
pORF_-_4135063	b3944	yijF	U	
pORF_-_4135955	b3945	gldA		RTS_R4_-_1198
pORF_-_4137069	b3946	fsaB		RTS_R4_-_1198
pORF_-_4137743	b3947	ptsA	U	RTS_R4_-_1198
pORF_-_4146555	b3955	yijP	U	RTS_R4_-_1200
pORF_-_4148470	b3956	ppc		RTS_R4_-_1201
pORF_-_4151719	b3957	argE		RTS_R4_-_1202
pORF_-_4157413	b3962	sthA		RTS_R4_-_1204
pORF_-_4160193	b3965	trmA		RTS_R4_-_1205
pORF_-_4172099	b3974	coaA		RTS_R4_-_1207
pORF_-_4188758	b3990	thiH		RTS_R4_-_1209
pORF_-_4189888	b3991	thiG		RTS_R4_-_1209
pORF_-_4190660	b4407	thiS		RTS_R4_-_1209
pORF_-_4190844	b3992	thiF		RTS_R4_-_1209
pORF_-_4191592	b3993	thiE		RTS_R4_-_1209
pORF_-_4192227	b3994	thiC		RTS_R4_-_1209
pORF_-_4194355	b3995	rsd		RTS_R4_-_1210
pORF_-_4202665	b4005	purD		RTS_R4_-_1212
pORF_-_4203966	b4006	purH		RTS_R4_-_1212
pORF_-_4220827	b4018	iclR		RTS_R4_-_1214
pORF_-_4227476	b4021	pepE		RTS_R4_-_1215
pORF_-_4229382	b4023	pagB	U	RTS_R4_-_1216
pORF_-_4229907	b4024	lysC		RTS_R4_-_1217
pORF_-_4238802	b4031	xylE		
pORF_-_4243252	b4034	malE		RTS_R4_-_1219
pORF_-_4252066	b4041	plsB		RTS_R4_-_1220
pORF_-_4257511	b4046	zur		RTS_R4_-_1221
pORF_-_4261271	b4051	qor		RTS_R4_-_1222
pORF_-_4269072	b4058	uvrA		RTS_R4_-_1223
pORF_-_4281276	b4067	actP		RTS_R4_-_1227
pORF_-_4282922	b4068	yjch	U	RTS_R4_-_1227
pORF_-_4283436	b4069	acs		RTS_R4_-_1227
pORF_-_4294459	b4078	yjcO	U	RTS_R4_-_1228
pORF_-_4301101	b4082	mdtN	U	
pORF_-_4302635	b4083	yjcS	U	
pORF_-_4306512	b4086	alsC		
pORF_-_4307471	b4087	alsA		
pORF_-_4309130	b4088	alsB		
pORF_-_4310124	b4089	rpiR		RTS_R4_-_1230

pORF_- 4315238	b4096	phnL		
pORF_- 4316029	b4097	phnK		
pORF_- 4322400	b4106	phnC		
pORF_- 4323321	b4107	yjdN	U	RTS_R4_- 1232
pORF_- 4324422	b4108	yjdM	U	RTS_R4_- 1233
pORF_- 4331305	b4113	basR		RTS_R4_- 1234
pORF_- 4336277	b4117	adiA		
pORF_- 4343703	b4122	fumB		RTS_R4_- 1236
pORF_- 4345427	b4123	dcuB		RTS_R4_- 1236
pORF_- 4347338	b4124	dcuR		RTS_R4_- 1237
pORF_- 4351223	b4129	lysU		RTS_R4_- 1239
pORF_- 4354493	b4131	cadA		
pORF_- 4360756	b4135	yjdC	U	RTS_R4_- 1242
pORF_- 4361368	b4136	dipZ	U	RTS_R4_- 1243
pORF_- 4363041	b4137	cutA		RTS_R4_- 1243
pORF_- 4363495	b4138	dcuA		RTS_R4_- 1244
pORF_- 4364914	b4139	aspA		RTS_R4_- 1245
pORF_- 4375212	b4149	blc		RTS_R4_- 1248
pORF_- 4375834	b4150	ampC		RTS_R4_- 1249
pORF_- 4377806	b4153	frdB		RTS_R4_- 1250
pORF_- 4378533	b4154	frdA		RTS_R4_- 1250
pORF_- 4384070	b4159	yjeP	U	RTS_R4_- 1251
pORF_- 4387415	b4160	psd		RTS_R4_- 1251
pORF_- 4388480	b4161	rsgA		RTS_R4_- 1252
pORF_- 4414464	b4189	yjfO	U	RTS_R4_- 1254
pORF_- 4415721	b4191	ulaR		RTS_R4_- 1255
pORF_- 4422539	b4199	yjfY	U	RTS_R4_- 1257
pORF_- 4424651	b4204	yjfZ	U	
pORF_- 4426102	b4206	ytfB	U	RTS_R4_- 1258
pORF_- 4431187	b4211	ytfG		RTS_R4_- 1261
pORF_- 4432645	b4213	cpdB		RTS_R4_- 1262
pORF_- 4436731	b4216	ytfJ	U	RTS_R4_- 1263
pORF_- 4437895	b4218	ytfL	U	RTS_R4_- 1264
pORF_- 4439561	b4219	msrA		RTS_R4_- 1265
pORF_- 4447145	b4226	ppa		RTS_R4_- 1266
pORF_- 4452634	b4232	fbp		RTS_R4_- 1267
pORF_- 4455337	b4234	yjgA	U	RTS_R4_- 1268
pORF_- 4458545	b4238	nrdD		RTS_R4_- 1269
pORF_- 4461077	b4239	treC		
pORF_- 4462782	b4240	treB		RTS_R4_- 1270
pORF_- 4464322	b4241	treR		RTS_R4_- 1270
pORF_- 4468550	b4243	yjgF		RTS_R4_- 1271
pORF_- 4469009	b4244	pyrI		RTS_R4_- 1272
pORF_- 4469483	b4245	pyrB		RTS_R4_- 1272
pORF_- 4475330	b4254	argI		RTS_R4_- 1275
pORF_- 4477057	b4256	yjgM	U	RTS_R4_- 1276
pORF_- 4479005	b4258	valS		RTS_R4_- 1277
pORF_- 4481860	b4259	holC		RTS_R4_- 1278
pORF_- 4482463	b4260	pepA		RTS_R4_- 1279
pORF_- 4486584	b4263	yjgR	U	RTS_R4_- 1280
pORF_- 4488164	b4264	idnR		RTS_R4_- 1281
pORF_- 4490610	b4266	idnO		
pORF_- 4493213	b4269	yjgB	U	RTS_R4_- 1282
pORF_- 4509481	b4288	fecD		RTS_R4_- 1288
pORF_- 4511429	b4290	fecB		RTS_R4_- 1288
pORF_- 4512376	b4291	fecA		RTS_R4_- 1289
pORF_- 4517361	b4295	yjhU	U	RTS_R4_- 1290
pORF_- 4526134	b4303	sgcQ	U	RTS_R4_- 1292
pORF_- 4528278	b4565	sgcB	U	RTS_R4_- 1292
pORF_- 4528553	b4305	sgcX	U	RTS_R4_- 1292
pORF_- 4535682	b4310	nanM	U	RTS_R4_- 1295
pORF_- 4555401	b4327	yjiE	U	RTS_R4_- 1297
pORF_- 4556377	b4328	iadA		RTS_R4_- 1298

pORF_-_4558020	b4330	yjiH	U	RTS_R4_-_1299
pORF_-_4562722	b4335	yjiM	U	RTS_R4_-_1300
pORF_-_4563989	b4336	yjiN	U	RTS_R4_-_1300
pORF_-_4574935	b4345	mcrC		
pORF_-_4575981	b4346	mcrB		RTS_R4_-_1303
pORF_-_4578091	b4348	hsdS		RTS_R4_-_1305
pORF_-_4579482	b4349	hsdM		RTS_R4_-_1305
pORF_-_4581272	b4350	hsdR		RTS_R4_-_1306
pORF_-_4585932	b4352	yjiA	U	RTS_R4_-_1307
pORF_-_4587152	b4354	yjiY	U	RTS_R4_-_1308
pORF_-_4592960	b4357	yjjM	U	RTS_R4_-_1309
pORF_-_4595173	b4359	mdoB		RTS_R4_-_1310
pORF_-_4597718	b4360	yjjA	U	RTS_R4_-_1311
pORF_-_4598261	b4361	dnaC		RTS_R4_-_1311
pORF_-_4599001	b4362	dnaT		RTS_R4_-_1311
pORF_-_4602898	b4367	fhuF		RTS_R4_-_1313
pORF_-_4604692	b4371	rsmC		RTS_R4_-_1315
pORF_-_4613538	b4380	yjjI	U	RTS_R4_-_1316
pORF_-_4621124	b4386	lplA		RTS_R4_-_1317
pORF_-_4622168	b4387	ytjB	U	RTS_R4_-_1317
pORF_-_4626878	b4391	yjjK	U	RTS_R4_-_1318
pORF_-_4631256	b4394	yjjX		RTS_R4_-_1319
pORF_-_4632464	b4396	rob		RTS_R4_-_1320
pORF_-_4637613	b4401	arcA		RTS_R4_-_1321