

Table A. Description of array elements on the microarray platform.

Legend

- (1) best representation of a gene fulfilling both criteria - > 97% sequence identity over a 100bp window &
 - (2) best hit by a gene fulfilling both criteria - > 97% sequence identity over a 100bp window & > 90% sec
 - (3) additional hit(s) by gene(s) fulfilling both criteria - > 97% sequence identity over a 100bp window & >
 - (4) hit(s) by gene(s) fulfilling ONE of the two criteria - > 97% sequence identity over a 100bp window OF
 - (5) best representation of a gene by the given spot
- only the top two hits for each spot are detailed over a 100bp window, and over the entire fragment, for e

SPOTTING	CHIP_ID	SPOT_SPI	(5) BEST_1	(5) BEST_2	FORWARD	REVERSE	AMPLIFIED	(1) GENE_
1	CTRL001	none					LT2_gDNA	0
2	CHIP0785	STM/STY	STM1968	STY2176	ATGGCAG	TTAAACC	ATGGCAG	1
3	CHIP0801	STM/STY	STM3172	STY3349	ATGTCAT	TTACCAG	ATGTCAT	1
4	CHIP0817	STM/STY	STM2021	STY2224	ATGACCG	TTACAGG	ATGACCG	1
5	CHIP2648	STM/STY	STM0086	STY0101	ATGGATA	TTAGATT	ATGGATA	1
6	CHIP2672	STM/STY	STM0141	STY0163	ATGCGTA	TTAGAGG	ATGCGTA	1
7	CHIP2666	STM/STY	STM0128	STY0148	ATGAGTG	TTATGTC	ATGAGTG	1
8	CHIP2682	STM/STY	STM0161	STY0183	ATGAACA	TTATGCG	ATGAACA	1
9	CHIP2698	STM/STY	STM0183	STY0208	ATGACGA	TTACCAG	ATGACGA	1
10	CHIP2714	STM/STY	STM0215	STY0238	ATGGCTA	TTATTCC	ATGGCTA	1
11	CHIP2730	STM/STY	STM0247	STY0274	ATGATTA	TTAGACA	ATGATTA	1
12	CHIP2746	STM/STY	STM1532	STY1531	ATGCAAA	TTATTCA	GTGCAAA	1
13	CHIP3308	STM/STY	STM0685	STY0723	ATGAATA	TTATTTG	ATGAATA	1
14	CHIP3324	STM/STY	STM0711	STY0751	ATGAAAA	TTATGCC	ATGAAAA	1
15	CHIP0790	STM/STY	STM4456	STY4796	ATGCTAA	TTACTGC	ATGCTAA	1
16	CHIP0806	STM/STY	STM2032	STY2237	ATGAGCG	TTAGCAT	ATGAGCG	1
17	CHIP0822	STM/STY	STM1998	STY2206	ATGGAAT	TTAACTG	ATGGAAT	1
18	CHIP0846	STM/STY	STM1004	STY1010	ATGACAC	TTAACTT	ATGACAC	1
19	CHIP2583	STM/STY	STM3842	STY3938	ATGGATT	TTAGGAT	ATGGATT	1
20	CHIP2599	STM/STY	STM3867	STY3911	ATGCAAC	TTACCAG	ATGCAAC	1
21	CHIP2631	STM/STY	STM0050	STY0059	ATGCCTA	TTATTGT	ATGCCTA	1
22	CHIP2655	STM/STY	STM0098	STY0113	ATGAAAT	TTAGGGC	ATGAAAT	1
23	CHIP3247	STM/STY	STM3334	STY3514	ATGCAGA	TTAACGC	ATGCAGA	1
24	CHIP3263	STM/STY	STM3370	STY3550	ATGACGG	TTACATC	ATGACGG	1
25	CHIP3817	STM/STY	STM1098	STY1130	ATGCAAG	TTAAACA	ATGCAAG	1
26	CHIP3833	STM/STY	STM1130	STY1167	ATGGGGA	TTATTTT	ATGGGGA	1
27	CHIP3849	STM/STY	STM1168	STY1206	ATGAAAT	TTACTCT	ATGAAAT	1
28	CHIP2425	STM/STY	STM3510	STY4286	ATGCTAA	TTACAAG	ATGCTAA	1
29	CHIP2441	STM specil	STM3532		ATGACTC	TTAAAGT	ATGACTC	1
30	CHIP2457	STM/STY	STM3571	STY4240	ATGGCAA	TTAATCC	ATGGCAA	1
31	CHIP3851	STM specil	STM1188		ATGCGCT	TTAATTA	ATGCGCT	1
32	CHIP2427	STM/STY	STM3515	STY4281	ATGTTGA	TTAAACC	ATGTTGA	1
33	CHIP2443	STM/STY	STM3534	STY4276	ATGAATG	TTACAAC	ATGAATG	1
34	CHIP2459	STM/STY	STM3573	STY4238	ATGATGT	TTATTTT	ATGATGT	1
35	CHIP3724	STM/STY	STM4568	STY4919	ATGTTTC	TTATTCA	GTGTTTC	1
36	CHIP4036	STM/STY	STM2723	STY4628	ATGAGTG	TTATATT	ATGAGTG	1
37	CHIP2453	STM/STY	STM3556	STY4255	ATGTCAT	TTATTGG	ATGTCAT	1
38	CHIP3718	STM/STY	STM4547	STY4900	ATGCTGC	TTACGAG	ATGCTGC	1
39	CHIP3734	STM/STY	STM4588	STY4935	ATGCAGC	TTAGACG	ATGCAGC	1
40	CHIP4046	STM/STY	STM2738	STY4644	ATGAGTT	TTAGAGG	ATGAGTT	1
41	CHIP4062	STM specil	STM2755		ATGAAAT	TTAGTGA	ATGAAAT	1

42	CHIP4078	STM/STY	STM2776	STY2893	ATGTATG TTAATGG ATGTATG	1
43	CHIP4128	STM/STY	STM4103	STY3766	ATGTGGC TTAATG GTGTGGC	1
44	CHIP4152	STM/STY	STM2858	STY2980	ATGCAAC TTAGCAT,ATGCAAC	1
45	CHIP4176	STM/STY	STM2927	STY3052	ATGCGCA TTACCAT ATGCGCA	1
46	CHIP3432	STM/STY	STM0882	STY0915	ATGCAGT TTATATT(ATGCAGT	1
47	CHIP3448	STM specil	STM0904		ATGCCAG TTATGTT ATGCCAG	1
48	CHIP3088	STM/STY	STM2489	STY2727	ATGTTCA TTACAGC,ATGTTCA	1
49	CHIP3442	STM specil	STM0898		ATGTTTG TTAGGCG ATGTTTG	1
50	CHIP3082	STM/STY			ATGAATC TTATTTAC ATGAATC	0
51	CHIP3482	STM/STY	STM0954		ATGTTTT TTACGCG ATGTTTT	1
52	CHIP3498	STM/STY	STM0983	STY0984	ATGAAGA TTACCCG ATGAAGA	1
53	CHIP3523	STM specil	STM1032		ATGGAAG TTA CTGC ATGGAAG	1
54	CHIP4115	STM/STY	STM4077	STY3793	ATGGCAA TTAGAAA ATGGCAA	1
55	CHIP4141	STM/STY	STM4119	STY3754	ATGAACG TTAGCCG ATGAACG	1
56	CHIP3597	STM/STY	STM4310	STY4511	ATGCGTT TTAGTCA ATGCGTT	1
57	CHIP3429	STM/STY	STM0877	STY0910	ATGATGA TTA CTTA ATGATGA	1
58	CHIP3453	STM specil	STM0910		ATGACGG TTATAAC ATGACGG	1
59	CHIP3101	STM/STY	STM2523	STY2768	ATGCATA TTATTTT ATGCATA	1
60	CHIP3117	STM/STY	STM2552	STY2799	ATGTCAC TTA CTGA GTGTCAC	1
61	CHIP3487	STM/STY	STM0962	STY0960	ATGAGCA TTAGCGG GTGAGCA	1
62	CHIP3127	STM/STY	STM2575	STY2821	ATGAATA TTATACG ATGAATA	1
63	CHIP2960	STM/STY	STM1992	STY2200	ATGCAGG TTATCGT ATGCAGG	1
64	CHIP2984	STM/STY	STM2270	STY2495	ATGAACA TTATTCT ATGAACA	1
65	CHIP3696	STM/STY	STM4514	STY4870	ATGGCGC TTATGAT ATGGCGC	1
66	CHIP2276	STM/STY	STM1108	STY1142	ATGTGCC TTAGTTG,ATGTGCC	1
67	CHIP3026	STM/STY	STM2346	STY2576	ATGGTGG TTATTCC ATGGTGG	1
68	CHIP0203	STM/STY	STM1956	STY2164	ATGAATT TTATAAC GTGAATT	1
69	CHIP0227	STM specil	STM0195		ATGAATA TTACAGA ATGAATA	1
70	CHIP2334	STM/STY	STM1166	STY1204	ATGTCGC TTAGGCG ATGTCGC	1
71	CHIP2358	STM/STY	STM1368	STY1755	ATGGTTG TTAAGGT ATGGTTG	1
72	CHIP3627	STM/STY	STM4376	STY4732	ATGCTAC TTAACCG ATGCTAC	1
73	CHIP0269	STM/STY	STM2862	STY2984	ATGAGTC TTATGAC ATGAGTC	1
74	CHIP2368	STM/STY	STM1451	STY1671	ATGAAAC TTAATTC ATGAAAC	1
75	CHIP2957	STM/STY	STM1988	STY2195	ATGGTCT TTATCGG ATGGTCT	1
76	CHIP2973	STM/STY	STM2068	STY2277	ATGACCA TTACGCG ATGACCA	1
77	CHIP2997	STM/STY			ATGCTAA TTATGAT ATGCTAA	0
78	CHIP3013	STM/STY	STM2328	STY2558	ATGAGTA TTAGCGT ATGAGTA	1
79	CHIP3663	STM/STY	STM4440	STY4779	ATGGATA TTAGAGG GTGGATA	1
80	CHIP3679	STM specil	STM4488		ATGGCGC TTAAGA ATGGCGC	1
81	CHIP3695	STM/STY	STM4506	STY4861	ATGATAA TTAAGC ATGATAA	1
82	CHIP3039	STM/STY	STM2370	STY2601	ATGGGAT TTAATGT ATGGGAT	1
83	CHIP0216	STM/STY	STM1257	STY1863	ATGCTCT TTAGCAT,ATGCTCT	1
84	CHIP2315	STM/STY	STM1479	STY1589	ATGCGAA TTAGTTT ATGCGAA	1
85	CHIP1333	STM/STY	STM0316	STY0361	ATGTCTG TTA CTTC GTGTCTG	1
86	CHIP1349	STM/STY	STM0164	STY0186	ATGAAAG TTA CTCC ATGAAAG	1
87	CHIP1365	STM/STY	STM0213	STY0236	ATGCAGC TTAATCA ATGCAGC	1
88	CHIP1389	STM/STY	STM0130	STY0150	ATGGCTG TTAGTCC ATGGCTG	1
89	CHIP3906	STM/STY	STM1303	STY1811	ATGTCTC TTACCCG ATGTCTC	1
90	CHIP3922	STM/STY	STM1338	STY1772	ATGAAAT TTAATCC ATGAAAT	1
91	CHIP3932	STM specil	STM1354		ATGAAAA TTAGTTC,ATGAAAA	1
92	CHIP0525	STM/STY	STM2146	STY2375	ATGCAAC TTACCAC ATGCAAC	1
93	CHIP3972	STM/STY	STM1471	STY1651	ATGAAAA TTAGGCA ATGAAAA	1

94	CHIP0565	STM/STY	STM1418	STY1702	ATGTTAA(TTACGCT(ATGTTAA(	1
95	CHIP1416	STM/STY	STM3863	STY3915	ATGTCAT TTAATTAC(ATGTCAT	1
96	CHIP1344	STM/STY	STM0281	STY0304	ATGAGCT TTATTTAT(ATGAGCT	1
97	CHIP1354	STM/STY	STM0219	STY0242	ATGATTA(TTAGAAC(GTGATTA	1
98	CHIP1378	STM/STY	STM1982	STY2190	ATGTCAA(TTAGCGC(ATGTCAA(	1
99	CHIP1490	STM/STY	STM2402	STY2642	ATGGCTG TTACTCC(ATGGCTG	1
100	CHIP1506	STM/STY	STM2317	STY2547	ATGTTAT TTACGGC(ATGTTAT	1
101	CHIP3927	STM/STY	STM1349	STY1761	ATGTCCA TTACTTC(ATGTCCA	1
102	CHIP0536	STM/STY	STM2871	STY2992	ATGATTC(TTATTCA(ATGATTC(	1
103	CHIP1541	STM/STY	STM2443	STY2680	ATGCTTG TTAATGA(ATGCTTG	1
104	CHIP1565	STM/STY	STM0503	STY0549	ATGAACG TTATGAT(ATGAACG	1
105	CHIP1042	STM/STY	STM4003	STY3878	ATGAAAA TTAGTTG(ATGAAAA	1
106	CHIP1989	STM/STY	STM4348	STY4708	ATGTTAA(TTAGGTG TTGTTAA(	1
107	CHIP3153	STM specil	STM2609		ATGAACG TTATCGT(ATGAACG	1
108	CHIP3177	STM/STY	STM3184	STY3362	ATGAAGC TTAATAA(ATGAAGC	1
109	CHIP2063	STM/STY	STM3555	STY4256	ATGATAG TTATTTCA(ATGATAG	1
110	CHIP3227	STM/STY	STM3290	STY3470	ATGACGA TTATTTG(ATGACGA	1
111	CHIP1520	STM/STY	STM2349	STY2579	ATGATTG TTACGCT(ATGATTG	1
112	CHIP1568	STM/STY	STM0512	STY0560	ATGGATG TTAGTGT(GTGGATG	1
113	CHIP1992	STM/STY	STM4396	STY4752	ATGCCCG TTACTGT(ATGCCCG	1
114	CHIP2008	STM/STY	STM4481	STY4819	ATGAGGA TTATAAC(ATGAGGA	1
115	CHIP1602	STM/STY	STM2793	STY2913	ATGGGGC TTAACGT(ATGGGGC	1
116	CHIP2010	STM/STY	STM4511	STY4867	ATGGATG TTACAGC(ATGGATG	1
117	CHIP2026	STM/STY	STM4594	STY4943	ATGAAAC TTAGAAT(ATGAAAC	1
118	CHIP2042	STM/STY	STM3657	STY4142	ATGATAA TTACCGC(ATGATAA	1
119	CHIP3206	STM/STY	STM3252		ATGGCAA TTATCTT(GTGGCAA	1
120	CHIP3222	STM specil	STM3278		ATGAGTG TTAATAA(ATGAGTG	1
121	CHIP0618	STM/STY	STM4106	STY3760	ATGAGCA TTATTGC(ATGAGCA	1
122	CHIP0730	STM/STY	STM1824	STY1954	ATGATGA TTAGTTC(ATGATGA	1
123	CHIP0762	STM/STY	STM0548	STY0595	ATGATCC TTAATTG(ATGATCC	1
124	CHIP1821	STM/STY	STM4027	STY3851	ATGCTAA TTATGGT(ATGCTAA	1
125	CHIP1853	STM/STY	STM0630	STY0679	ATGTTAC TTAACGC(GTGTTAC	1
126	CHIP1885	STM/STY	STM3407	STY4390	ATGTCAG TTAGGCA(GTGTCAG	1
127	CHIP0741	STM/STY	STM1244	STY1880a	ATGAAAC TTATGTT(ATGAAAC	1
128	CHIP1800	STM/STY	STM4127	STY3747	ATGATGG TTATTCG(GTGATGG	1
129	CHIP1840	STM/STY	STM0690	STY0728	ATGAAAC TTAGTTG(ATGAAAC	1
130	CHIP1872	STM/STY	STM0732	STY0775	ATGTGGG TTACCAT(ATGTGGG	1
131	CHIP0590	STM/STY	STM0977	STY0977	ATGGCTC TTAGCCG(ATGGCTC	1
132	CHIP0718	STM/STY	STM0584	STY0627	ATGCTGA TTATCGG(ATGCTGA	1
133	CHIP1891	STM/STY	STM3475	STY4321	ATGAGTC TTAACCG(ATGAGTC	1
134	CHIP0121	STM/STY	STM4163	STY3722	ATGTATC TTATTCA(ATGTATC	1
135	CHIP0137	STM/STY	STM3564	STY4248	ATGAAAC TTACTTC(ATGAAAC	1
136	CHIP4736	STM/STY	STM2778		ATGATAG TTA AAAAG(GGTATAG	0
137	CHIP1220	STM/STY	STM1623	STY1441	ATGTTGA TTATTCC(ATGTTGA	1
138	CHIP0409	STM/STY	STM1172	STY1211	ATGAGCA TTATTTAC(ATGAGCA	1
139	CHIP1278	STM/STY	STM3376	STY3556	ATGCAGG TTATTTT(ATGCAGG	1
140	CHIP1294	STM/STY	STM0033	STY0040	ATGGTTT TTATTTG(ATGGTTT	1
141	CHIP4675	STM/STY	STM0083	STY0096	ATGCTCC TTATTTAC(ATGCTCC	1
142	CHIP4691	STM/STY	STM1250	STY1873	ATGTTCC TTATTGC(TTGTTCC	1
143	CHIP0140	STM/STY	STM4021	STY3857	ATGAAAT TTATTTCC(ATGAAAT	1
144	CHIP3354	STM/STY	STM3352	STY0064	ATGACCA TTACGCC ACCGTTG	0
145	CHIP0166	STM/STY	STM0023	STY0026	ATGCGTA TTAATGA(ATGCGTA	1

146	CHIP0182	STM/STY	STM2043	STY2248	ATGCGAT TTACTGT(ATGCGAT	1
147	CHIP1225	STM/STY	STM4300	STY4499	ATGTCGA TTATTTT(ATGTCGA	1
148	CHIP1241	STM/STY	STM1929	STY2138	ATGGTCT TTAGATA(ATGGTCT	0
149	CHIP0430	STM/STY	STM2502	STY2743	ATGCCAA TTACGCG ATGCCAA	1
150	CHIP0454	STM/STY	STM4263	STY4461	ATGTTTT TTAGGTC ATGTTTT	1
151	CHIP1283	STM/STY	STM2671	STY2858	ATGCGTT TTATTCA(ATGCGTT	1
152	CHIP1299	STM/STY	STM0062	STY0071	ATGAAGG TTAGTCA(ATGAAGG	1
153	CHIP1315	STM/STY	STM3798	STY3981	ATGAAAA TTAACCC(ATGAAAA	1
154	CHIP0017	STM/STY	STM3970	STY3589	ATGGTGG TTAGAAT ATGGTGG	1
155	CHIP0033	STM/STY	STM3954	STY3605	ATGCCTC TTAATTG ATGCCTC	1
156	CHIP1656	STM/STY	STM2086	STY2295	ATGGGTA TTATTGA GGTAAAA	1
157	CHIP3052	STM/STY	STM2393	STY2625	ATGAAAT TTAAGCG AAATTAAC	1
158	CHIP1710	STM/STY	STM1816	STY1946	ATGGCAT TTATTTT(ATGGCAT	1
159	CHIP1726	STM/STY	STM1736	STY1315	ATGACAA TTAACCC ATGACAA	1
160	CHIP1742	STM/STY	STM2982	STY3122	ATGTCAA TTATTGT ATGTCAA	1
161	CHIP1758	STM/STY	STM2914	STY3039	ATGCAGA TTATGAC ATGCAGA	1
162	CHIP1774	STM/STY	STM4097	STY3773	ATGAAAA TTAGGGA ATGAAAA	1
163	CHIP0925	STM/STY	STM0578	STY0620	ATGGATA TTAACCT ATGGATA	1
164	CHIP1776	STM/STY	STM4091	STY3779	ATGTCTG TTATAAG ATGTCTG	1
165	CHIP0192	STM/STY	STM2053	STY2258	ATGATGA TTAACCT(ATGAGCA	1
166	CHIP0030	STM/STY	STM3957	STY3602	ATGCGGC TTAGAAG ATGCGGC	1
167	CHIP0054	STM/STY	STM3928	STY3627	ATGAGTT TTATAGT ATGAGTT	1
168	CHIP2289	STM/STY	STM1263	STY1858	ATGCTGA TTAGTAG CTGACAA	1
169	CHIP1731	STM/STY	STM3027	STY3175	ATGAAAA TTATGAT(GTGAAAA	1
170	CHIP1747	STM/STY	STM2963	STY3102	ATGGCGC TTAGGAA ATGGCGC	1
171	CHIP0936	STM/STY	STM0430	STY0469	ATGAAAT TTAGTGG ATGAAAT	1
172	CHIP0960	STM/STY	STM3974	STY3585	ATGCCAG TTACGGT TTGCCAG	1
173	CHIP4408	STM/STY	STM0516	STY0564	ATGCTCA TTAGGCT ATGCTCA	1
174	CHIP4440	STM specil	STM0574		ATGAGTG TTAAGC ATGAGTG	1
175	CHIP4434	STM/STY	STM0564	STY0612	ATGACAC TTAACCT ATGACAC	1
176	CHIP4458	STM/STY	STM0600	STY0644	ATGAATA TTAGTGC ATGAATA	1
177	CHIP1214	STM/STY	STM1614	STY1450	ATGTTTG TTATTCC(ATGTTTG	1
178	CHIP2762	STM/STY	STM1556	STY1508	ATGAGTG TTATTCC(ATGAGTG	1
179	CHIP2786	STM/STY	STM1598	STY1466	ATGAAAA TTACACA ATGAAAA	1
180	CHIP2810	STM/STY	STM1633	STY1438	ATGTTAT(TTATTTT ATGTTAT	1
181	CHIP2812	STM/STY	STM1635	STY1436	ATGGCTT TTATCGT ATGGCTT	1
182	CHIP2932	STM/STY	STM1894	STY2102	ATGATAG TTAAGGC ATGATAG	1
183	CHIP4397	STM/STY	STM0492	STY0536	ATGCATC TTAACCT ATGCATC	1
184	CHIP1153	STM/STY	STM0627	STY0676	ATGCTAA TTAGCCG ATGCTAA	1
185	CHIP1177	STM/STY	STM3769	STY4016	ATGATGA TTACAGC ATGATGA	1
186	CHIP4461	STM/STY	STM0603	STY0647	ATGAGAA TTACAGT ATGAGAA	1
187	CHIP4455	STM/STY	STM0596	STY0640	ATGCGTA TTAGAGC ATGCGTA	1
188	CHIP1211	STM/STY	STM2739	STY4645	ATGAGCA TTAGCGT ATGAGCA	1
189	CHIP2863	STM/STY	STM1750	STY1301	ATGGCAC TTATATG ATGGCAC	1
190	CHIP2783	STM/STY	STM1595	STY1470	ATGACAA TTAGGCT ATGACAA	1
191	CHIP2815	STM/STY	STM1641	STY1428	ATGACTG TTAGGCC ATGACTG	1
192	CHIP2831	STM/STY	STM1668	STY1396	ATGCGTA TTATAGT(GTGCFTA	1
193	CHIP4665	STM/STY	STM4390	STY4746	ATGTGGC TTAAGG GTGTGGC	1
194	CHIP4298	STM/STY	STM2660	STY2849	ATGCGTC TTAAGG ATGCGTC	1
195	CHIP4226	STM/STY	STM3024	STY3169	ATGGGTC TTAAGG ATGGGTC	1
196	CHIP4338	STM/STY	STM0381	STY0413	ATGAGAG TTAACGA GTGAGAG	1
197	CHIP4266	STM specil	STM3119		ATGAACA TTAATAAC ATGAACA	1

198	CHIP4378	STM/STY	STM0459	STY0502	ATGTTAG TTATTCA/ATGTTAG	1
199	CHIP4612	STM/STY	STM3096	STY3249	ATGAATT TTAGGCGATGAATT	1
200	CHIP2516	STM/STY	STM3692	STY4104	ATGAACC TTACGGA ATGAACC	1
201	CHIP2556	STM/STY	STM3807	STY3971	ATGAGTG TTAACCC.ATGAGTG	1
202	CHIP4213	STM/STY	STM2993	STY3131	ATGACAA TTATCCG ATGACAA	1
203	CHIP4229	STM/STY	STM3028	STY3176	ATGAAAA TTATCTG ATGAAAA	1
204	CHIP4349	STM/STY	STM0402	STY0440	ATGGTAC TTACAGG ATGGTAC	1
205	CHIP2479	STM/STY	STM3611	STY4192	ATGATAA TTACAGG ATGATAA	1
206	CHIP2495	STM/STY	STM3651	STY4151	ATGGGAC TTATTGA GTGGGAC	1
207	CHIP2511	STM/STY	STM3682	STY4114	ATGATTA TTATTCT ATGATTA	1
208	CHIP2527	STM/STY	STM3729	STY4065	ATGGATA TTAATC ATGGATA	1
209	CHIP2543	STM/STY	STM3771	STY4014	ATGGCCA TTAGAAT ATGGCCA	1
210	CHIP4496	STM/STY	STM0704	STY0745	ATGATCG TTATTTCC ATGATCG	1
211	CHIP1973	STM/STY	STM4564	STY4915	ATGAGCT TTAGAGC GTGAGCT	1
212	CHIP1606	STM/STY	STM2813	STY2939	ATGGATA TTAGCGC ATGGATA	1
213	CHIP1630	STM/STY	STM2130	STY2343	ATGAAAG TTATACT ATGAAAG	1
214	CHIP1646	STM/STY	STM2216	STY2452	ATGATTG TTACCTC ATGATTG	1
215	CHIP1662	STM/STY	STM2100	STY2310	ATGAAAG TTATATC ATGAAAG	1
216	CHIP1678	STM/STY	STM2165	STY2395	ATGACGA TTAATTC ATGACGA	1
217	CHIP1640	STM/STY	STM2197	STY2431	ATGAGCA TTATAAT ATGAGCA	1
218	CHIP4540	STM specil	STM2230		ATGAAGC TTACATC ATGAAGC	1
219	CHIP1680	STM/STY	STM2177	STY2407	ATGACCA TTAGACA ATGACCA	1
220	CHIP1896	STM/STY	STM0933	STY0929	ATGGCGC TTATTTTT GTGGCGC	1
221	CHIP2104	STM/STY	STM3642	STY4160	ATGCAGC TTAATCT ATGCAGC	1
222	CHIP2120	STM/STY	STM3547	STY4264	ATGAAAT TTAGTGA ATGAAAT	1
223	CHIP2098	STM/STY	STM3669	STY4129	ATGATTT TTATAAA ATGATTT	1
224	CHIP2114	STM/STY	STM3580	STY4231	ATGCGCA TTAATTA ATGCGCA	1
225	CHIP2130	STM/STY	STM3339	STY3520	ATGGCAA TTACGCC ATGGCAA	1
226	CHIP2154	STM/STY	STM3238	STY3418	ATGTTTG TTAATGC ATGTTTG	1
227	CHIP2170	STM/STY	STM3141	STY3312	ATGCGAA TTAGTTC ATGCGAA	1
228	CHIP1627	STM/STY	STM2852	STY2974	ATGAATC TTATGCA GTGAATC	1
229	CHIP2229	STM/STY	STM3203	STY3382	ATGCCAA TTAGTTC ATGCCAA	1
230	CHIP0362	STM/STY	STM1401	STY1719	ATGGAAG TTACCTC ATGGAAG	1
231	CHIP0378	STM/STY	STM1115	STY1151	ATGAAAT TTACCCG ATGAAAT	1
232	CHIP3353	STM specil	STM0765		ATGTTGG TTAATAG TTGTTGG	1
233	CHIP3401	STM/STY	STM0835	STY0876	ATGGGTC TTATTCT ATGGGTC	1
234	CHIP0307	STM/STY	STM1387	STY1733	ATGGCGA TTATGGC ATGGCGA	1
235	CHIP3356	STM/STY	STM0772	STY0804	ATGGCTG TTAATTC ATGGCTG	1
236	CHIP3388	STM/STY	STM0816	STY0851	ATGAGTA TTAATCC ATGAGTA	1
237	CHIP3420	STM/STY	STM0861	STY0894	ATGGCTA TTAACGC ATGGCTA	1
238	CHIP2201	STM/STY	STM3316	STY3495	ATGAGTA TTATATC ATGAGTA	1
239	CHIP0334	STM/STY	STM1973	STY2181	ATGGCAC TTATTCG ATGGCAC	1
240	CHIP2241	STM/STY	STM3140	STY3311	ATGGCAG TTAATTA ATGGCAG	1
241	CHIP3383	STM/STY	STM0809		ATGGTGA TTATTTCC TTGGTGA	1
242	CHIP3415	STM specil	STM0856		ATGGCTT TTATAAT ATGGCTT	1
243	CHIP3648	STM specil	STM4421		ATGGAAA TTAACCG ATGGAAA	1
244	CHIP3664	STM/STY	STM4441	STY4780	ATGGAAC TTAGGCG ATGGAAC	1
245	CHIP4362	STM/STY	STM0436	STY0475	ATGGCAA TTATCCT GTGGCAA	1
246	CHIP3649	STM specil	STM4422		ATGAAAC TTAACCC ATGAAAC	1
247	CHIP4459	STM/STY	STM0601	STY0645	ATGTTCC TTAGCAG ATGTTCC	1
248	CHIP4413	STM/STY	STM0521		ATGCGTG TTACCAT ATGCGTG	1
249	CHIP4430	STM/STY	STM0556	STY0603	ATGAGCC TTAATCT ATGAGCC	1

250	CHIP4446	STM/STY	STM0581	STY0624	ATGACCA TTAATGC(ATGACCA	1
251	CHIP4447	STM/STY	STM0582	STY0625	ATGAAAC TTAATCG(ATGAAAC	1
252	CHIP1721	STM/STY	STM1787	STY1914	ATGAGTA TTAGCGT ATGAGTA	1
253	CHIP4632	STM specil	STM0334		ATGACGT TTACGGA ATGACGT	1
254	CHIP4650	STM specil	STM2507		ATGTACT TTAGGCC ATGTACT	1
255	CHIP4651	STM/STY	STM2279	STY2508	ATGGGAC TTACATC ATGGGAC	1
256	CHIP2165	STM/STY	STM3151	STY3323	ATGGCCG TTAACCT ATGGCCG	1
257	CHIP1124	STM/STY	STM0885	STY0918	ATGAAAG TTATTTG ATGAAAG	1
258	CHIP1148	STM/STY	STM0614	STY0662	ATGTATA TTAACGC ATGTATA	1
259	CHIP2547	STM/STY	STM3778	STY4005	ATGGATG TTATACC GTGGATG	1
260	CHIP2524	STM/STY	STM3708	STY4087	ATGAAAG TTAATCC(ATGAAAG	1
261	CHIP2548	STM/STY	STM3779	STY4004	ATGATTA(TTATACT(ATGATTA	1
262	CHIP2557	STM/STY	STM3808	STY3970	ATGCGTA TTAGCTA ATGCGTA	1
263	CHIP2559	STM/STY	STM3810	STY3968	ATGATGA TTAGGGA GTGATGA	1
264	CHIP2429	STM specil	STM3517		ATGGCTG TTAGATC(ATGGCTG	1
265	CHIP4502	STM/STY	STM1120		ATGCAAT TTACGAC ATGCAAT	1
266	CHIP4602	STM/STY	STM4070	STY3800	ATGATAC TTATTTG GTGATAC	1
267	CHIP4658	STM/STY	STM4124		ATGAGGT TTACGGA CAGAGGT	1
268	CHIP4667	STM/STY	STM4520	STY4878	ATGGTTG TTAATTG(ATGGTTG	1
269	CHIP4629	STM/STY	STM0467		ATGGCTC TTAGGGT GGGGCTC	1
270	CHIP4638	STM/STY	STM1464	STY1657a	ATGTTCCG TTAGGTG ATGTTCCG	1
271	CHIP3395	STM/STY	STM0823	STY0860	ATGAAAA TTATTTAT ATGAAAA	1
272	CHIP3288	STM/STY	STM0649	STY0700	ATGGCAC TTATTTCC(ATGGCAC	1
273	CHIP2944	STM/STY	STM1934	STY2142	ATGAAGC TTAATAA ATGAAGC	1
274	CHIP3028	STM/STY	STM2350	STY2580	ATGCAGA TTAGCGA ATGCAGA	1
275	CHIP0518	STM specil	PSLT045		ATGGCAC TTACGCC ATGGCAC	1
276	CHIP1029	STM specil	PSLT049		ATGAAGC TTAGGCC ATGAAGC	0
277	CHIP0168	STM specil	PSLT076		ATGTTAA TTAATCC ATGTTAA	1
278	CHIP0956	STM specil	PSLT030		ATGACAC TTATGTT ATGACAC	1
279	CHIP4620	STM specil	PSLT047		ATGCCGC TTAATCC(ATGCCGC	1
280	CHIP1075	STM specil	PSLT060		ATGAAC TTAGTCT ATGAAC	1
281	CHIP1054	STM specil	PSLT020		ATGATGG TTATCTT CAGGGAC	0
282	CHIP0500	none	R460023		ATGCTTG TTAGATT ATGCTTG	0
283	CHIP4777	STM specific			CCCGGTT ACTTTCT(CCCGGTT	0
284	CHIP4781	STM/STY	STM2293	STY2523	CACGGAC CCAGCGC CACGGAC	1
285	CHIP4785	STM/STY			AGGAGAC TTCGCCA AGGAGAC	0
286	CHIP4789	STM/STY			TGGGTAT CATCTGC TGGGTAT	0
287	CHIP4793	STM/STY			CAGCAGT TATCCCG CAGCAGT	0
288	CHIP4797	STM/STY			CAGCAGA GCATCCA CAGCAGA	0
289	CHIP4909	STM/STY			ATGATTA TTATTTT(TTGATTA	0
290	CHIP4925	STY specific		STY0307	ATGAAAC TTAGCGT ATGAAAC	0
291	CHIP4941	STY specific		STY0349	ATGACTG TTACTCT(ATGACTG	0
292	CHIP4957	STY specific		STY1017	ATGAGCA TTATGCT ATGAGCA	0
293	CHIP4973	STY specific		STY1044	ATGTTTA(TTACTTC/ATGTTTA	0
294	CHIP4988	STY specific		STY1060	ATGGAAT TTAGCCC ATGGAAT	0
295	CHIP4935	STM/STY			ATGGCTC TTAATCC(ATGGCTC	0
296	CHIP4951	STM/STY		STY0793	ATGTCAA TTACAGT GTGTCAA	0
297	CHIP4967	STM/STY			ATGAGAA TTAATAT(ATGAGAA	0
298	CHIP5077	STY specific		STY2006	ATGTCCA TTACCGG ATGTCCA	0
299	CHIP5090	STY specific		STY2029	ATGCCGC TTAGCGA ATGCCGC	0
300	CHIP5199	STY specific		STY3191	ATGCTGT TTAGAGT ATGCTGT	0
301	CHIP4945	STM/STY		STY0477	ATGGATT TTAATTT(ATGGATT	0

302	CHIP4961	STY specific	STY1026	ATGGAAT TTAGTCC ATGGAAT	0
303	CHIP4977	STY specific	STY1048	ATGGCAC TTATTTG/ATGGCAC	0
304	CHIP4992	STY specific	STY1064	ATGTCAC TTATCCT/ATGTCAC	0
305	CHIP5193	STY specific	STY3089	ATGAAAA TTATTGG GTGAAAA	0
306	CHIP5207	STY specific	STY3288	ATGATTG TTAATGA GTGATTG	0
307	CHIP4963	STY specific	STY1028	ATGCGAA TTATGCC ATGCGAA	0
308	CHIP4979	STY specific	STY1050	ATGAAAT TTACCCT ATGAAAT	0
309	CHIP4994	STY specific	STY1066	ATGAGTT TTAGAGT ATGAGTT	0
310	CHIP5102	STY specific	STY2042	ATGAGAA TTAGTCC TTGAGAA	0
311	CHIP5117	STY specific	STY2058	ATGAATA TTAATTA ATGAATA	0
312	CHIP5223	STY specific	STY3659	ATGCTAG TTAGACG ATGCTAG	0
313	CHIP5424	STY specific	STY4838	ATGAAGA TTATTTG ATGAAGA	0
314	CHIP5365	STM/STY		ATGAATG TTATACC ATGAATG	0
315	CHIP5298	STY specific	STY4522	ATGAGCC TTAGCCA ATGAGCC	0
316	CHIP5395	STY specific	STY4669	ATGGAAC TTA AAAAG ATGGAAC	0
317	CHIP5410	STY specific	STY4822	ATGATTG TTAATCT ATGATTG	0
318	CHIP5425	STY specific	STY4842	ATGGGTG TTA AAGC ATGGGTG	0
319	CHIP5331	STY specific	STY4570	ATGCAAA TTAGTCA ATGCAAA	0
320	CHIP5347	STY specific	STY4587	ATGGGAA TTAATCG GTGGGAA	0
321	CHIP5362	STY specific	STY4609	ATGACAA TTAGGGA GTGACAA	0
322	CHIP5381	STY specific	STY4649	ATGGATA TTAATTT ATGGATA	0
323	CHIP5392	STY specific	STY4666	ATGGAAA TTATCTA ATGGAAA	0
324	CHIP5332	STY specific	STY4571	ATGACTG TTACAGT TTGACTG	0
325	CHIP2560	STM/STY STM3811	STY3967	ATGCAGT TTATCGC GTGCAGT	1
326	CHIP2576	STM/STY STM3831	STY3947	ATGGCTA TTATCGG ATGGCTA	1
327	CHIP2592	STM/STY STM3854	STY3929	ATGAGTA TTAACCG ATGAGTA	1
328	CHIP0825	STM/STY STM3790	STY3992	ATGATCA TTACCAA ATGATCA	1
329	CHIP3232	STM/STY STM3302	STY3481	ATGGTGA TTATTCG ATGGTGA	1
330	CHIP3248	STM/STY STM3337	STY3518	ATGTCGT TTATGAC ATGTCGT	1
331	CHIP3242	STM/STY STM3318	STY3497	ATGAAAT TTAGTTA ATGAAAT	1
332	CHIP3258	STM/STY STM3356	STY3536	ATGTTTG TTACGGA ATGTTTG	1
333	CHIP3274	STM specil STM3389		ATGGCGA TTAGGCT ATGGCGA	1
334	CHIP3290	STM/STY STM0651	STY0702	ATGAAAA TTAACCG ATGAAAA	1
335	CHIP3306	STM/STY STM0683	STY0721	ATGTATG TTA CTTA ATGTATG	1
336	CHIP3322	STM/STY STM0705		ATGAGTC TTACGCC ATGAGTC	1
337	CHIP2740	STM/STY STM1517	STY1543	ATGATGT TTATCCG ATGATGT	1
338	CHIP0774	STM specil STM3638		ATGACAT TTACCGG ATGACAT	1
339	CHIP2581	STM/STY STM3840	STY3939	ATGGTTA TTAGGAC GTGGTTA	1
340	CHIP2597	STM/STY STM3859		ATGACAA TTACAGG ATGACAA	1
341	CHIP2613	STM/STY STM0011	STY0011	ATGCGAT TTAATCG ATGCGAT	1
342	CHIP0854	STM/STY STM1246	STY1878	ATGAAAA TTAGAAA ATGAAAA	1
343	CHIP0800	STM/STY STM2640	STY2833	ATGAGCG TTAACGC ATGAGCG	1
344	CHIP2607	STM/STY STM3885	STY3892	ATGAAAA TTACCCC ATGAAAA	1
345	CHIP2639	STM/STY STM0068	STY0078	ATGCTTA TTAGCGA GTGCTTA	1
346	CHIP2663	STM/STY STM0122	STY0142	ATGAAAG TTACGAT ATGAAAG	1
347	CHIP2679	STM/STY STM0157	STY0180	ATGACGT TTAACGG ATGACGT	1
348	CHIP3271	STM/STY STM3386	STY3566	ATGAAAG TTA CTTC ATGAAAG	1
349	CHIP2377	STM/STY STM1491	STY1573	ATGATAA TTAGCTG ATGATAA	1
350	CHIP2393	STM/STY STM3449	STY4349	ATGCTGC TTACCAG ATGCTGC	1
351	CHIP3857	STM/STY STM1201	STY1240	ATGAAAT TTA AAGA ATGAAAT	1
352	CHIP3873	STM/STY STM1229	STY1269	ATGGAAT TTATCCT ATGGAAT	1
353	CHIP3889	STM/STY STM1274	STY1846	ATGGGCA TTAGCTT ATGGGCA	1

354	CHIP4002	STM/STY	STM2102	STY2314	ATGAGTT TTATCCG,ATGAGTT	1
355	CHIP2411	STM/STY	STM3488	STY4308	ATGAAGC TTATTCT(ATGAAGC	1
356	CHIP3875	STM/STY	STM1235	STY1275	ATGTTCA,TTACTTG,ATGTTCA	1
357	CHIP3891	STM/STY	STM1276	STY1842	ATGTTTC,TTACGAG,ATGTTTC,	1
358	CHIP4004	STM/STY	STM2105	STY2317	ATGATAA TTAGACC,ATGATAA	1
359	CHIP4020	STM/STY	STM2134	STY2347	ATGTTCT(TTAAATC(ATGTTCT)	1
360	CHIP4052	STM specil	STM2745		ATGAAAC TTAGATA(ATGAAAC	1
361	CHIP3901	STM/STY	STM1290	STY1825	ATGACTA TTATTTG(ATGACTA	1
362	CHIP4014	STM/STY	STM2123	STY2336	ATGAGTA TTAATGG,ATGAGTA	1
363	CHIP3742	STM/STY	STM0008	STY0008	ATGGATA TTAGTCC,ATGGATA	1
364	CHIP3758	STM/STY	STM0287	STY0316	ATGTCTG TTACAGC,ATGTCTG	1
365	CHIP3774	STM/STY	STM0314	STY0359	ATGGGCA TTACCCG,ATGGGCA	1
366	CHIP3790	STM specil	STM1047		ATGGCAA TTAGTGC,ATGGCAA	0
367	CHIP4136	STM specil	STM4114		ATGACCC TTACAAC,ATGACCC	1
368	CHIP3584	STM/STY	STM4281	STY4479	ATGCATA,TTATTGT,TTGCATA,	1
369	CHIP4184	STM specil	STM2939		ATGTATC TTACGCG,GTGTATC	1
370	CHIP3056	STM/STY	STM2404	STY2645	ATGTTCC,TTAGGGT,ATGTTCC,	1
371	CHIP3072	STM/STY	STM2448	STY2685	ATGAAGA TTATTCT,ATGAAGA	1
372	CHIP3472	STM specil	STM0929		ATGGGTA TTAGCGT,ATGGGTA	1
373	CHIP3450	STM specil	STM0906		ATGAAAA TTAAACC,ATGAAAA	1
374	CHIP3466	STM specific			ATGGCAA TTATCGA,ATGGCAA	0
375	CHIP3106	STM/STY	STM2530	STY2775	ATGGGTT TTATGCT,ATGGGTT	1
376	CHIP3122	STM/STY	STM2563	STY2810	ATGGGCA TTATGGC,GTGGGCA,	1
377	CHIP4099	STM/STY	STM4030	STY3848	ATGAGAA TTAGTCC,ATGAGAA	1
378	CHIP3547	STM specil	STM4205		ATGAAAA TTATTCC,ATGAAAA	1
379	CHIP4149	STM/STY	STM2854	STY2976	ATGCACG TTAATCT,ATGCACG	1
380	CHIP4181	STM/STY	STM2935	STY3060	ATGGATC TTAGAAA,ATGGATC	1
381	CHIP3437	STM specil	STM0893		ATGACGC TTAAATA,ATGACGC	1
382	CHIP3077	STM/STY	STM2473	STY2710	ATGAACC TTATAGT,ATGAACC	1
383	CHIP3485	STM/STY	STM0958	STY0956	ATGGGCA TTATTTG(ATGGGCA	1
384	CHIP3501	STM/STY	STM0988	STY0990	ATGAGTT TTAACGC,ATGAGTT	1
385	CHIP3495	STM/STY	STM0975	STY0975	ATGACGC TTATTTT(ATGACGC	1
386	CHIP3135	STM specil	STM2591		ATGGCGC TTACCTG,ATGGCGC	0
387	CHIP3640	STM/STY	STM4406	STY4764	ATGAAAA TTACGCC,ATGAAAA	1
388	CHIP2992	STM/STY	STM2283	STY2512	ATGTTGA TTAGCCT,ATGTTGA,	1
389	CHIP3024	STM/STY	STM2343	STY2573	ATGAAAA TTATTGT,ATGAAAA	1
390	CHIP0201	STM/STY	STM1923	STY2132	ATGCTTA TTATGCT,GTGCTTA	1
391	CHIP3034	STM/STY	STM2364	STY2595	ATGGCGA TTAGTTC,GTGGCGA,	1
392	CHIP2286	STM/STY	STM1219	STY1259	ATGGCGT TTAGTGG,ATGGCGT	1
393	CHIP2310	STM/STY	STM1426	STY1696	ATGTTTA(TTAGCCA,ATGTTTA)	1
394	CHIP2342	STM/STY	STM1237	STY1277	ATGTTTT(TTATCTG,ATGTTTT)	1
395	CHIP0283	STM/STY	STM0025	STY0030	ATGAACA TTATTCA,ATGAACA	1
396	CHIP2955	STM/STY	STM1986	STY2193	ATGCTCT TTAGGAG,ATGCTCT	1
397	CHIP2352	STM/STY	STM1325	STY1786	ATGGCCA TTATTGT(ATGGCCA	1
398	CHIP3621	STM/STY	STM4368	STY4725	ATGTCAC TTAGTCT(ATGTCAC	1
399	CHIP3637	STM/STY	STM4401	STY4759	ATGATTG TTACAGT,ATGATTG	1
400	CHIP3653	STM specil	STM4426		ATGAAAG TTAGATC,ATGAAAG	1
401	CHIP3677	STM specil	STM4485		ATGGCCC TTAGGAA,ATGGCCC	1
402	CHIP3693	STM/STY	STM4502	STY4858	ATGAAAG TTATCGA,ATGAAAG	1
403	CHIP2991	STM/STY	STM2281	STY2510	ATGACAC TTATAGC,ATGACAC	1
404	CHIP3007	STM specil	STM2315		ATGCTTA TTAGTGA,ATGCTTA	1
405	CHIP3023	STM/STY	STM2342	STY2572	ATGTTTA TTATTCT,ATGTTTA	1

406	CHIP0200	STM/STY	STM1924	STY2133	ATGAGTG TTAACA(ATGAGTG	1
407	CHIP0224	STM/STY	STM2701	STY4607	ATGGCTC TTATGCA(ATGGCTC	1
408	CHIP0240	STM/STY	STM2467	STY2703	ATGAACG TTATGGC ATGAACG	1
409	CHIP1429	STM/STY	STM2654	STY2847	ATGGCAG TTAAGG ATGGCAG	1
410	CHIP1445	STM/STY	STM0361	STY0393	ATGACCA TTAGTGA ATGACCA	1
411	CHIP1373	STM/STY	STM2017	STY2220	ATGAGTA TTATAAC ATGAGTA	1
412	CHIP1485	STM/STY	STM4220	STY4416	ATGACAG TTATTCA ATGACAG	1
413	CHIP0483	STM/STY	STM2818	STY2944	ATGATCC TTAGGCG TTGATCC	1
414	CHIP3930	STM specil	STM1352		ATGTCGG TTATAAT(ATGTCGG	1
415	CHIP0509	STM/STY	STM1979	STY2187	ATGCGCC TTAAC TG ATGCGCC	1
416	CHIP0533	STM/STY	STM2874	STY2995	ATGAAA TTAAGT(ATGAAA	1
417	CHIP0549	STM/STY	STM1913	STY2122	ATGGCTA TTATTTTC ATGGCTA	1
418	CHIP3996	STM/STY	STM2093	STY2303	ATGTCTC TTATAAA GTGTCTC	1
419	CHIP1424	STM/STY	STM3881	STY3897	ATGAAGA TTAGAAA ATGAAGA	1
420	CHIP1352	STM/STY	STM0217	STY0240	ATGGCCC TTAGGAC ATGGCCC	1
421	CHIP1450	STM/STY	STM0384	STY0417	ATGAAA TTACGCC ATGAAA	1
422	CHIP1474	STM/STY	STM4193	STY4410	ATGCTGA TTAACGT(ATGCTGA	1
423	CHIP1402	STM/STY	STM0074	STY0084	ATGAAA TTAAC TG ATGAAA	1
424	CHIP3911	STM/STY	STM1309	STY1804	ATGGTAC TTATGAC GTGGTAC	1
425	CHIP3935	STM specil	STM1357		ATGCTCT TTAATGT(GTGCTCT	1
426	CHIP3967	STM/STY	STM1463	STY1658	ATGATTG TTACGCC ATGATTG	1
427	CHIP1002	STM/STY	STM1017	STY1025	ATGAGCA TTATTCC ATGAGCA	0
428	CHIP1026	STM/STY	STM4473	STY4812	ATGAATA TTAGAGA ATGAATA	1
429	CHIP1589	STM/STY	STM0542	STY0588	ATGGCAG TTATTTTC ATGGCAG	1
430	CHIP3137	STM specil	STM2593		ATGAAA TTAGATA ATGAAA	1
431	CHIP2021	STM/STY	STM4565	STY4916	ATGAACA TTACAAA ATGAACA	1
432	CHIP2037	STM/STY	STM3701	STY4094	ATGTCAG TTAGGCA ATGTCAG	1
433	CHIP2071	STM/STY	STM3509	STY4287	ATGAATG TTACAGC ATGAATG	1
434	CHIP0965	STM specil	STM4157		ATGATCC TTAAC TG ATGATCC	1
435	CHIP0981	STM/STY	STM1774	STY1899	ATGACAA TTACCCC ATGACAA	1
436	CHIP1584	STM/STY	STM0513	STY0561	ATGCAAG TTATTGC(ATGCAAG	1
437	CHIP3140	STM specil	STM2596		ATGTTTC TTAGGAC ATGTTTC	1
438	CHIP3156	STM specil	STM1028		ATGATGA TTATGAC ATGATGA	0
439	CHIP1994	STM/STY	STM4400	STY4758	ATGATTA TTAGCGT ATGATTA	1
440	CHIP3158	STM specific			ATGCCAG TTAATTAC ATGCCAG	0
441	CHIP3174	STM/STY	STM2655	STY2848	ATGGCTA TTATCCC ATGGCTA	1
442	CHIP3190	STM/STY	STM3206	STY3385	ATGATGG TTATTTTC ATGATGG	1
443	CHIP2066	STM/STY	STM3535	STY4275	ATGCAGG TTATTTTC ATGCAGG	1
444	CHIP2082	STM/STY	STM3738	STY4056	ATGCTGT TTAGTGC ATGCTGT	1
445	CHIP0714	STM/STY	STM2548	STY2794	ATGGCTA TTATGCC ATGGCTA	1
446	CHIP0642	STM/STY	STM1203	STY1242	ATGTTTA TTAGTGG ATGTTTA	1
447	CHIP1797	STM/STY	STM4001	STY3880	ATGACTA TTATTCC ATGACTA	1
448	CHIP1829	STM/STY	STM0831	STY0870	ATGAGTA TTATTCC ATGAGTA	1
449	CHIP1861	STM/STY	STM0802	STY0836	ATGACTC TTAACCG ATGACTC	1
450	CHIP0579	STM/STY	STM1421	STY1699	ATGGCAC TTATACA ATGGCAC	1
451	CHIP0757	STM/STY	STM2454	STY2691	ATGAAA TTAAGCC ATGAAA	1
452	CHIP1808	STM/STY	STM4074	STY3796	ATGCAA TTAACAT(ATGCAA	1
453	CHIP1848	STM/STY	STM0642	STY0693	ATGCAGG TTAAC TG ATGCAGG	1
454	CHIP1880	STM/STY	STM0267	STY0288	ATGACCG TTAGTGG ATGACCG	1
455	CHIP0694	STM/STY	STM2073	STY2282	ATGAGCA TTATACT(ATGAGCA	1
456	CHIP0630	STM/STY	STM1696	STY1355	ATGGTGG TTAGCGA ATGGTGG	1
457	CHIP0097	STM/STY	STM0385	STY0418	ATGTTCC TTATGCC ATGTTCC	1

458	CHIP4704	STM/STY	STM1810	STY1940	ATGTCTG TTATCTA(ATGTCTG	1
459	CHIP4720	STM/STY	STM2132		ATGACAG TTAATC(ATGACAG	1
460	CHIP0161	STM/STY	STM0669	STY0715	ATGTTCA(TTATTTCTGTGTTCA	1
461	CHIP1228	STM/STY	STM4289	STY4488	ATGTCAT TTAGTTC(ATGTCAT	1
462	CHIP1244	STM/STY	STM1908	STY2116	ATGGCGA TTAATGG(ATGGCGA	1
463	CHIP0451	STM/STY	STM4261	STY4459	ATGCAGG TTATGCG(ATGCAGG	1
464	CHIP0467	STM/STY	STM3717	STY4078	ATGGATT(TTATTTGTATGGATT	1
465	CHIP0100	STM/STY	STM1855	STY1987	ATGACTA TTAGGAG GTGACTA	1
466	CHIP0124	STM/STY	STM4167	STY3718	ATGACCG TTAGTTG(ATGACCG	1
467	CHIP0156	STM/STY	STM3866	STY3912	ATGGCCG TTAACCC(ATGGCCG	1
468	CHIP0172	STM/STY	STM2267	STY2493	ATGAAAG TTAGAAC(ATGAAAG	1
469	CHIP3385	STM/STY	STM0812	STY0847	ATGATGA TTAGGGC(ATGAAAT	1
470	CHIP4356	STM/STY	STM0415	STY0453	ATGTGCA TTATTAG TGCATTG	1
471	CHIP0398	STM/STY	STM4055	STY3816	ATGAGTT(TTATTTTATGAGTT	1
472	CHIP0414	STM/STY	STM2063	STY2269	ATGAATA(TTAGACG ATGAATA	1
473	CHIP1265	STM/STY	STM1690	STY1371	ATGGGTA TTATTGA(ATGGGTA	1
474	CHIP1289	STM/STY	STM2681	STY2868	ATGAGTA TTACTTC(ATGAGTA	1
475	CHIP0456	STM/STY	STM3423	STY4375	ATGGCTC TTATTTCTATGGCTC	1
476	CHIP0472	STM/STY	STM3723	STY4071	ATGCGTT TTATAGC(ATGCGTT	1
477	CHIP0001	STM/STY	STM3987	STY3573	ATGAAAA TTATTTCTGTAAAA	1
478	CHIP0461	STM/STY	STM2583	STY2829	ATGAAGA TTATTTATATGAAGA	1
479	CHIP0041	STM/STY	STM3946	STY3613	ATGAAAA TTAGTAA(ATGAAAA	1
480	CHIP0065	STM/STY	STM3917	STY3638	ATGAATC TTATGAG(ATGAATC	1
481	CHIP0867	STM/STY	STM1977	STY2185	ATGAGTG TTAACGA(ATGAGTG	1
482	CHIP0883	STM/STY	STM1802	STY1930	ATGACCC TTACGTT(ATGACCC	1
483	CHIP0899	STM/STY	STM2384	STY2616	ATGGCAG TTACCAG(ATGGCAG	1
484	CHIP0915	STM/STY	STM2324	STY2554	ATGAAAA TTAATG(ATGAAAA	1
485	CHIP0931	STM/STY	STM3733	STY4061	ATGAAAC TTACACG(ATGAAAC	1
486	CHIP0947	STM/STY	STM2700	STY4606	ATGGCTT TTAGAGG(ATGGCTT	1
487	CHIP1760	STM/STY	STM2890	STY3013	ATGGGGA TTATGTT(ATGGGGA	1
488	CHIP1784	STM/STY	STM4046	STY3827	ATGACCA TTAGCTA(ATGACCA	1
489	CHIP0014	STM/STY	STM3973	STY3586	ATGGGTC TTATACC(ATGGGTC	1
490	CHIP0852	STM/STY	STM3174	STY3351	ATGGCAG TTAAGT(GCAGAGC	1
491	CHIP1518	STM/STY	STM2409	STY2650	ATGTCCT TTAGGAC TCCTTCA	1
492	CHIP0078	STM/STY	STM3901	STY3656	ATGAACG TTATGAT(ATGAACG	1
493	CHIP0904	STM/STY	STM0101	STY0118	ATGTTAG TTACCGA(ATGTTAG	1
494	CHIP1755	STM/STY	STM2933	STY3058	ATGCGCT TTAGGAT(ATGCGCT	1
495	CHIP1771	STM/STY	STM2921	STY3046	ATGAGAT TTATCCA(ATGAGAT	1
496	CHIP1795	STM/STY	STM4010	STY3870	ATGCGAT TTATTCA(ATGCGAT	1
497	CHIP4416	STM/STY	STM0525	STY0573	ATGAAGA TTAACGA(ATGAAGA	1
498	CHIP1180	STM/STY	STM0965	STY0963	ATGACAA TTATACC(ATGACAA	0
499	CHIP4442	STM specil	STM0576		ATGATCA TTAGAGT ATGATCA	1
500	CHIP1198	STM/STY	STM1637	STY1434	ATGGCGC TTATTGC(ATGGCGC	1
501	CHIP2850	STM/STY	STM1714	STY1336	ATGGGTA TTATTTCTATGGGTA	1
502	CHIP2770	STM specil	STM1568		ATGAGTA TTAAGTA(ATGAGTA	1
503	CHIP2890	STM/STY	STM1817	STY1947	ATGAATT TTAAGC(TTGAATT	1
504	CHIP2818	STM/STY	STM1647	STY1422	ATGAAAC TTAGAAC(ATGAAAC	1
505	CHIP2916	STM/STY	STM1864	STY2002	ATGTGTA TTATAAC(GTGTGTA	1
506	CHIP2836	STM/STY	STM1674	STY1390	ATGACTA TTAATCC(ATGACTA	1
507	CHIP1137	STM/STY	STM1895	STY2103	ATGATAG TTATAAC(GTGATAG	1
508	CHIP4421	STM/STY	STM0534	STY0582	ATGTCTT(TTATAGC(ATGTCTT	1
509	CHIP4445	STM/STY	STM0580	STY0622	ATGGCTC TTATTGC GTGGCTC	1

510	CHIP1201	STM/STY	STM1654	STY1412	ATGCAAG TTATTTTC/ATGCAAG	1
511	CHIP1195	STM/STY	STM1583	STY1482	ATGCCAT TTAATAA1ATGCCAT	1
512	CHIP4479	STM/STY	STM0343	STY0376	ATGTTGT TTATTCAC/ATGTTGT	1
513	CHIP2871	STM/STY	STM1769	STY1283	ATGCAAA TTAANAAT(ATGCAAA	1
514	CHIP2791	STM/STY	STM1606	STY1458	ATGCGTC TTAGCCA ATGCGTC	1
515	CHIP2919	STM specil	STM1871		ATGGCGC TTAGAGC GTGGCGC	1
516	CHIP2935	STM/STY	STM1898	STY2106	ATGTCGA TTAGCGC GTGTCGA	1
517	CHIP2553	STM/STY	STM3802	STY3977	ATGGAAA TTAGCGT ATGGAAA	1
518	CHIP4210	STM/STY	STM2987	STY3127	ATGTCAG TTATTCT1ATGTCAG	1
519	CHIP4322	STM specil	STM2705		ATGGTAT TTATTGT(GTGGTAT	1
520	CHIP4250	STM specil	STM3084		ATGTTTA(TTAGGTG TTGTTTA	1
521	CHIP4274	STM/STY	STM3133	STY3303	ATGCCAC TTATTTA/ATGCCAC	1
522	CHIP4578	STM/STY	STM3914	STY3640	ATGTGGC TTAACCT(TTGTGGC	1
523	CHIP2500	STM/STY	STM3661	STY4137	ATGCAGC TTATTTA1ATGCAGC	1
524	CHIP4636	STM/STY	STM1186	STY1226a	ATGGTCG TTAAGC CGCGTCC	1
525	CHIP4197	STM/STY	STM2968	STY3107	ATGTCTT(TTACTGT(ATGTCTT	1
526	CHIP4309	STM/STY	STM2687	STY2873	ATGGTAT TTATCCG GTGGTAT	1
527	CHIP4237	STM/STY	STM3053	STY3209	ATGACAC TTAACGG ATGACAC	1
528	CHIP4261	STM/STY	STM3106	STY3259	ATGGAGT TTAATAC1ATGGAGT	1
529	CHIP4599	STM/STY	STM4131	STY3743	ATGGCTA TTAACCC(ATGGCTA	1
530	CHIP4615	STM/STY	STM3109	STY3264	ATGAAAA TTATTTTC/ATGAAAA	1
531	CHIP4631	STM/STY	STM0618	STY0667	ATGTCTT TTAATTC(ATGTCTT	1
532	CHIP4647	STM/STY		STY2447	ATGCCCT TTAATCC(CTGCCCT	0
533	CHIP1604	STM/STY	STM2797	STY2917	ATGACAG TTATGGA1ATGACAG	1
534	CHIP4504	STM/STY	STM1691	STY1370	ATGGCTG TTAAGC ATGGCTG	1
535	CHIP1981	STM/STY	STM3039	STY3195	ATGACTG TTAACGC ATGACTG	1
536	CHIP4490	STM/STY	STM0365	STY0397	ATGGAGC TTAGCGG ATGGAGC	1
537	CHIP4514	STM/STY	STM3653	STY4148	ATGAAAA TTATTTCC(ATGAAAA	1
538	CHIP4530	STM/STY	STM2202	STY2437	ATGACAG TTATGCG ATGACAG	1
539	CHIP4546	STM specil	STM2237		ATGCCTC TTAGATT(ATGCCTC	1
540	CHIP4562	STM/STY	STM2159	STY2389	ATGTACG TTATGCG ATGTACG	1
541	CHIP4524	STM/STY	STM2194	STY2428	ATGGAAA TTATCGG ATGGAAA	1
542	CHIP1664	STM/STY	STM2106	STY2318	ATGAAGA TTATCCC(ATGAAGA	1
543	CHIP4564	STM/STY	STM2164	STY2394	ATGAGTG TTAATCA1GTGAGTG	1
544	CHIP2088	STM/STY	STM3694	STY4102	ATGATTA TTAGGCG ATGATTA	1
545	CHIP1920	STM/STY	STM3440	STY4358	ATGATTG TTACGCC ATGATTG	1
546	CHIP1936	STM/STY	STM4358	STY4715	ATGATTT TTAATTC(ATGATTT/	1
547	CHIP1914	STM/STY	STM3433	STY4365	ATGTTAC TTACATC/ATGTTAC/	1
548	CHIP1930	STM/STY	STM3038	STY3194	ATGGTTT TTAGCAC ATGGTTT	1
549	CHIP1946	STM/STY	STM4380	STY4736	ATGATAG TTAAGA1ATGATAG	1
550	CHIP1970	STM/STY	STM4548	STY4901	ATGGAAA TTATACC(ATGGAAA	1
551	CHIP1986	STM/STY	STM4333	STY4693	ATGGCGC TTAGCAC ATGGCGC	1
552	CHIP1635	STM/STY	STM2156	STY2385	ATGAAAA TTATTTCC(ATGAAAA	1
553	CHIP0346	STM/STY	STM0666	STY0711	ATGGCAT TTATTTCC(ATGGCAT	1
554	CHIP2253	STM/STY	STM3092	STY3245	ATGAAAA TTACCCG ATGAAAA	1
555	CHIP2269	STM/STY	STM1075	STY1097	ATGGAAC TTAGGGC ATGGAAC	1
556	CHIP3361	STM/STY	STM0781	STY0814	ATGGCGC TTAATTC(ATGGCGC	1
557	CHIP3409	STM/STY	STM0849	STY0888	ATGACGC TTAATTC/ATGACGC	1
558	CHIP2198	STM/STY	STM3323	STY3502	ATGGTAC TTATGTT1ATGGTAC	1
559	CHIP3364	STM/STY	STM0786	STY0819	ATGAATA TTAATTC GTGAATA	1
560	CHIP3396	STM/STY	STM0826	STY0863	ATGTCCG TTAGCGT ATGTCCG	1
561	CHIP2185	STM/STY	STM3054	STY3210	ATGAGCA TTATTCG ATGAGCA	1

562	CHIP0318	STM/STY	STM0263	STY0284	ATGCTTA TTAAGCT ATGCTTA	1
563	CHIP2225	STM/STY	STM3223	STY3403	ATGATAC TTACGCA ATGATAC	1
564	CHIP0358	STM/STY	STM1397	STY1723	ATGATGA TTACCTT ATGATGA	1
565	CHIP3391	STM/STY	STM0819	STY0854	ATGAATA TTAGTCC ATGAATA	1
566	CHIP3423	STM/STY	STM0866	STY0899	ATGCAGA TTAGACT ATGCAGA	1
567	CHIP4353	STM/STY	STM0409	STY0447	ATGATGC TTACGCA GTGATGC	1
568	CHIP4306	STM/STY	STM2682		ATGTGTC TTATGAA ATGTGTC	1
569	CHIP3688	STM specil	STM4497		ATGATCG TTAACGA GTGATCG	1
570	CHIP3706	STM/STY	STM4528	STY4886	ATGCCGA TTAACCA ATGCCGA	1
571	CHIP3600	STM/STY	STM4318	STY4518	ATGATCT TTAACCA ATGATCT	1
572	CHIP3545	STM specil	STM4203		ATGAACA TTATCGC ATGAACA	1
573	CHIP3562	STM/STY	STM4222	STY4418	ATGAAAA TTAGTGG ATGAAAA	1
574	CHIP3539	STM specil	STM4197		ATGGATT TTATATT ATGGATT	1
575	CHIP3532	STM/STY	STM4181	STY4399	ATGATGA TTACGGA ATGATGA	1
576	CHIP0787	STM/STY	STM2016	STY2219	ATGAGCC TTATGTT ATGAGCC	1
577	CHIP4051	STM specil	STM2744		ATGAAAA TTAACGG ATGAAAA	1
578	CHIP4044	STM specil	STM2735		ATGCTGA TTAGCTT ATGCTGA	1
579	CHIP4045	STM/STY	STM2737	STY4643	ATGAGTA TTAACCA ATGAGTA	1
580	CHIP2145	STM/STY	STM3283	STY3464	ATGTCTC TTAGCGA ATGTCTC	1
581	CHIP2188	STM/STY	STM3047	STY3203	ATGGATA TTAGATT ATGGATA	1
582	CHIP2209	STM/STY	STM3259	STY3442	ATGAAAC TTACCC ATGAAAC	1
583	CHIP1194	STM/STY	STM1591	STY1474	ATGAACC TTA AAC ATGAACC	1
584	CHIP1139	STM/STY	STM1534	STY1529	ATGACTA TTATTGC ATGACTA	1
585	CHIP1219	STM/STY	STM1611	STY1453	ATGGTGC TTAATCC ATGGTGC	1
586	CHIP1274	STM/STY	STM3392	STY3572	ATGAAAA TTATTTAC ATGAAAA	1
587	CHIP1381	STM/STY	STM0078	STY0088	ATGACAT TTAGCCG ATGACAT	1
588	CHIP3988	STM/STY	STM1500	STY1563	ATGATGA TTATTGC ATGATGA	1
589	CHIP3120	STM/STY	STM2561	STY2808	ATGAAAA TTAGATA ATGAAAA	1
590	CHIP3097	STM/STY			ATGTATC TTA AATA TTGTATC	0
591	CHIP3075	STM/STY	STM2452	STY2689	ATGCAAA TTAACGG ATGCAAA	1
592	CHIP3124	STM/STY	STM2566		ATGGTGT TTAGTTA TTGGTGT	1
593	CHIP3093	STM/STY	STM2495	STY2736	ATGACCG TTAACCG ATGACCG	1
594	CHIP3111	STM/STY	STM2538	STY2784	ATGCCGA TTAATGC ATGCCGA	1
595	CHIP3332	STM/STY	STM0724	STY0765	ATGTATT TTAATAT ATGTATT	1
596	CHIP3281	STM/STY	STM0636	STY0687	ATGAAAA TTACAAT ATGAAAA	1
597	CHIP3000	STM/STY	STM2303	STY2533	ATGGGCC TTATGAT ATGGGCC	1
598	CHIP0769	STM specil	PSLT048		ATGCGTC TTACGCA ATGCGTC	1
599	CHIP0979	STM specil	PSLT026		ATGAACA TTAGGGA ATGAACA	1
600	CHIP1037	STM specil	PSLT042		ATGCCGA TTACCGC ATGCCGA	1
601	CHIP0424	STM/STY	PSLT012		ATGGCGT TTATCCG ATGGCGT	1
602	CHIP0426	STM/STY	PSLT007	STY4846	ATGTCGC TTAGGAC TCGCTGC	0
603	CHIP0422	STM specil	PSLT013		ATGAGTG TTAGAGC ATGAGTG	1
604	CHIP1115	STM specil	PSLT107		ATGATGG TTAGAAT ATGATGG	0
605	CHIP1088	STM specil	PSLT074		ATGCGGA TTAAGGC CGTCGGA	1
606	CHIP1012	none	R460002		ATGAAGT TTATTTG ATGAAGT	0
607	CHIP4778	STM specific			CCCGTTT GTCTACG CCCGTTT	0
608	CHIP4782	STM/STY			GCAGCAC TTAAGAC GCAGCAC	0
609	CHIP4786	STM/STY			CGCGTTA TTTTGCT CGCGTTA	0
610	CHIP4790	STM/STY			GATCTGG TCAATAG GATCTGG	0
611	CHIP4794	STM/STY			CGCTCCG CTGCCAA CGCTCCG	0
612	CHIP4798	STM/STY			GCCGCGT GATTTTC GCCGCGT	0
613	CHIP5004	STM/STY		STY1255	ATGTTCA TTACAGC ATGTTCA	0

614	CHIP5020	STY specific		STY1595	ATGACAG TTATCTG(ATGACAG	0
615	CHIP5036	STY specific		STY1612	ATGACAC TTATTGA(ATGACAC	0
616	CHIP5051	STY specific		STY1628	ATGTCAC TTAATCT(ATGTCAC	0
617	CHIP5067	STM/STY		STY1853	ATGCTTA TTATATC(ATGCTTA	0
618	CHIP4996	STY specific		STY1068	ATGGCAG TTAGTTT(ATGGCAG	0
619	CHIP5030	STY specific		STY1606	ATGATGC TTAATAT(ATGATGC	0
620	CHIP5046	STY specific		STY1622	ATGTACTIONTTAGTAT ATGTACTION	0
621	CHIP5061	STY specific		STY1643	ATGCAAA TTACAAC ATGCAAA	0
622	CHIP4990	STY specific		STY1062	ATGGATA TTAGCCG GTGGATA	0
623	CHIP5098	STY specific		STY2038	ATGCGCA TTAGCCG GTGCGCA	0
624	CHIP5113	STY specific		STY2054	ATGAAGC TTACTION(ATGAAGC	0
625	CHIP5040	STY specific		STY1616	ATGGCGA TTAGCCG ATGGCGA	0
626	CHIP5055	STY specific		STY1632	ATGGCTG TTTTTT ATGGCTG	0
627	CHIP5071	STY specific		STY1889	ATGACTA TTACAAT(ATGACTA	0
628	CHIP5000	STY specific		STY1072	ATGGCTA TTATCCA ATGGCTA	0
629	CHIP5108	STY specific		STY2048	ATGACCA TTAAGC ATGACCA	0
630	CHIP5123	STY specific		STY2064	ATGAAAA TTAATGC ATGAAAA	0
631	CHIP5057	STY specific		STY1635	ATGGCGC TTAGCCA ATGGCGC	0
632	CHIP5073	STY specific		STY1891	ATGTATA TTACTION(ATGTATA	0
633	CHIP5086	STY specific		STY2025	ATGGATT TTACCTT(ATGGATT	0
634	CHIP5195	STY specific		STY3091	ATGGAAA TTATTCA ATGGAAA	0
635	CHIP5125	STY specific		STY2066	ATGGAAA TTACTION ATGGAAA	0
636	CHIP5141	STY specific		STY2296	ATGAAGG TTATGAA ATGAAGG	0
637	CHIP5350	STY specific		STY4590	ATGATGG TTAACGA ATGATGG	0
638	CHIP5372	STY specific		STY4629	ATGTCAC TTAATAAT ATGTCAC	0
639	CHIP5384	STY specific		STY4652	ATGGAAA TTATTCA ATGGAAA	0
640	CHIP5321	STY specific		STY4557	ATGACGA TTAGAGC ATGACGA	0
641	CHIP5335	STY specific		STY4574	ATGAGCC TTACCTG ATGAGCC	0
642	CHIP5351	STY specific		STY4591	ATGAGCC TTACGGT ATGAGCC	0
643	CHIP5414	STY specific		STY4826	ATGTTTC TTAATGC ATGTTTC	0
644	CHIP5429	STY specific		STY4851	ATGAGTC TTTTTT TTGAGTC	0
645	CHIP5369	STM/STY		STY4625	ATGAAAA TTATTCC ATGAAAA	0
646	CHIP5303	STY specific		STY4528	ATGAGAG TTATTGA ATGAGAG	0
647	CHIP5318	STY specific		STY4552	ATGTCTC TTAGGCA ATGTCTC	0
648	CHIP5415	STY specific		STY4827	ATGGCCA TTAGCCC GTGGCCA	0
649	CHIP0777	STM/STY	STM3041	STY3197	ATGTTTG TTATAGC ATGTTTG	0
650	CHIP0793	STM/STY	STM2397	STY2634	ATGAAGG TTATTCA ATGAAGG	1
651	CHIP0809	STM/STY	STM2029	STY2234	ATGTCAG TTAGGCT ATGTCAG	1
652	CHIP0833	STM/STY	STM3577	STY4234	ATGAAAA TTAGAAG ATGAAAA	1
653	CHIP2664	STM/STY	STM0123	STY0143	ATGGCAG TTATGCG GTGGCAG	1
654	CHIP2680	STM/STY	STM0158	STY0181	ATGCTAG TTAACC GTGCTAG	1
655	CHIP2674	STM/STY	STM0148	STY0170	ATGGCAA TTAGATC ATGGCAA	1
656	CHIP2690	STM specil	STM0174		ATGAAGA TTAGCGA ATGAAGA	1
657	CHIP2706	STM/STY	STM0193	STY0220	ATGCGTG TTACGCT ATGCGTG	1
658	CHIP2722	STM/STY	STM0234	STY0259	ATGAACA TTAGCAG ATGAACA	1
659	CHIP2738	STM/STY	STM1514	STY1547	ATGAGAT TTATGCT ATGAGAT	1
660	CHIP0772	STM specil	STM3640		ATGGAGT TTATTCC ATGGAGT	1
661	CHIP3316	STM/STY	STM0697	STY0735	ATGAAAA TTAATT ATGAAAA	1
662	CHIP0782	STM/STY	STM1965	STY2173	ATGTCAT TTATACA ATGTCAT	1
663	CHIP0798	STM/STY	STM3711	STY4084	ATGAAAA TTAACG ATGAAAA	1
664	CHIP0814	STM/STY	STM2024	STY2228	ATGAACG TTATTCT ATGAACG	1
665	CHIP0830	STM/STY	STM1725	STY1326	ATGCAAA TTAATAT ATGCAAA	1

666	CHIP2645	STM/STY	STM0081	STY0093	ATGAAAC TTAGTGC ATGAAAC	1
667	CHIP2591	STM/STY	STM3853	STY3930	ATGGACA TTAATCT ATGGACA	1
668	CHIP2615	STM/STY	STM0015	STY0015	ATGTCTA TTAATCT(ATGTCTA	1
669	CHIP0856	STM/STY	STM3110	STY3265	ATGCAAG TAAACT(ATGCAAG	1
670	CHIP3239	STM/STY	STM3312	STY3491	ATGCTGT TTAATTC(ATGCTGT	1
671	CHIP3255	STM/STY	STM3347	STY3527	ATGTTCA TTAATCG(ATGTTCA	1
672	CHIP3279	STM/STY	STM0632	STY0682	ATGGGTG TTAATTC ATGGGTG	1
673	CHIP3825	STM/STY	STM1110		ATGGAAT TAAACT ATGGAAT	1
674	CHIP3841	STM/STY	STM1152	STY1189	ATGGTGA TTAATTC ATGGTGA	1
675	CHIP2417	STM/STY	STM3497	STY4299	ATGAAAG TTATTCG(ATGAAAG	1
676	CHIP2433	STM specil	STM3522		ATGCGAA TTAATTC ATGCGAA	1
677	CHIP2449	STM/STY	STM3544	STY4267	ATGATCT TTAATTC(ATGATCT,	1
678	CHIP3714	STM/STY	STM4541	STY4894	ATGCTGA TTAATTC ATGCTGA	1
679	CHIP3859	STM/STY	STM1204	STY1244	ATGTCTT TTAGAAC ATGTCTT	1
680	CHIP2435	STM specil	STM3527		ATGGAAG TTAATTC ATGGAAG	1
681	CHIP2451	STM/STY	STM3552		ATGAAAC TTAAGGG ATGAAAC	1
682	CHIP3716	STM/STY	STM4545	STY4898	ATGGGTA TTACACG ATGGGTA	1
683	CHIP3732	STM/STY	STM4585	STY4932	ATGTTAC TTAACGC ATGTTAC,	1
684	CHIP3764	STM specil	STM0295		ATGTTAA TTACACA GTGTTAA	1
685	CHIP2461	STM/STY	STM3576	STY4235	ATGTCGA TTAGTTT ATGTCGA	1
686	CHIP3726	STM specil	STM4572		ATGAAGT TTATTGA GTGAAGT	1
687	CHIP4038	STM specil	STM2726		ATGTCAA TTAGAAC ATGTCAA	1
688	CHIP4054	STM specil	STM2747		ATGCTTT TTAATA ATGCTTT	1
689	CHIP4070	STM specil	STM2763		ATGGCAA TTATCTG ATGGCAA	1
690	CHIP4086	STM/STY	STM2788	STY2908	ATGGATA TTAACCG ATGGATA	1
691	CHIP3568	STM/STY	STM4244	STY4440	ATGCTGG TTAGTAA ATGCTGG	1
692	CHIP3592	STM/STY	STM4295	STY4494	ATGAGGA TTAGGCA ATGAGGA	1
693	CHIP3424	STM/STY	STM0868	STY0901	ATGACCG TTATGCG ATGACCG	1
694	CHIP3440	STM specil	STM0896		ATGGGCA TTAATTC ATGGGCA	1
695	CHIP3080	STM/STY	STM2477	STY2714	ATGTCGC TTAGTCC ATGTCGC	1
696	CHIP3480	STM specil	STM0948		ATGATGA TTAATTC ATGATGA	1
697	CHIP3074	STM/STY	STM2450	STY2687	ATGAGCA TTACCGT ATGAGCA	1
698	CHIP3474	STM/STY	STM0936	STY0932	ATGATGA TTATGCG ATGATGA	1
699	CHIP3490	STM/STY	STM0969	STY0967	ATGCCGA TTATGTG ATGCCGA	1
700	CHIP3506	STM/STY	STM0994	STY0996	ATGATTG TTAATTC ATGATTG,	1
701	CHIP3531	STM specil	STM1041		ATGGACA TTATCGA GTGGACA	0
702	CHIP4123	STM/STY	STM4093	STY3777	ATGGCAC TTAACCC GTGGCAC	1
703	CHIP4157	STM specil	STM2901		ATGGATA TTAATA ATGGATA	1
704	CHIP3613	STM/STY	STM4343	STY4703	ATGCAAA TTAGCCA GTGCAAA	1
705	CHIP3061	STM/STY	STM2420	STY2655	ATGATGG TTATACC GTGATGG	1
706	CHIP3461	STM specil	STM0918		ATGGACC TTAGCTG ATGGACC	1
707	CHIP3109	STM/STY	STM2533	STY2779	ATGACCA TTAAGCG ATGACCA	1
708	CHIP3125	STM/STY	STM2569	STY2815	ATGTTCC TTATTCG ATGTTCC	1
709	CHIP3119	STM/STY	STM2560	STY2807	ATGAAAA TTAATCG ATGAAAA	1
710	CHIP3616	STM/STY	STM4349	STY4709	ATGGGCC TTAGTCG ATGGGCC	1
711	CHIP2968	STM/STY	STM2009	STY2211	ATGGAAA TTAGCGA ATGGAAA	1
712	CHIP3008	STM/STY	STM2316	STY2546	ATGATGC TTACATC GTGATGC	1
713	CHIP3032	STM/STY	STM2360	STY2590	ATGACTG TTAATAA ATGACTG	1
714	CHIP2284	STM/STY	STM1198	STY1237	ATGTTTT TTAATTC(ATGTTTT	1
715	CHIP0195	STM/STY	STM2056	STY2261	ATGAAGC TTAATTC ATGAAGC	1
716	CHIP0219	STM/STY	STM3445		ATGTCTA TTAGCCC GTGTCTA	0
717	CHIP2318	STM/STY	STM1488	STY1576	ATGGTTG TTAACCC GTGGTTG	1

718	CHIP0267	STM/STY	STM0304	STY0341	ATGATGG TTAATCA ATGATGG	1
719	CHIP2366	STM/STY	STM1441	STY1681	ATGAAAC TTACGCC ATGAAAC	1
720	CHIP3635	STM/STY	STM4397	STY4753	ATGGCCA TTACAGA ATGGCCA	1
721	CHIP0277	STM/STY	STM0115	STY0134	ATGCCAG TTATCGC ATGCCAG	1
722	CHIP2949	STM/STY	STM1941	STY2152	ATGCTGA TTAATTT CATGCTGA	1
723	CHIP2965	STM specil	STM2006		ATGGGCA TTATTCC ATGGGCA	1
724	CHIP3661	STM specil	STM4435		ATGAATA TTATTGC ATGAATA	1
725	CHIP3005	STM/STY	STM2313	STY2544	ATGGTGG TTA AAC ATGGTGG	1
726	CHIP3021	STM/STY	STM2340	STY2570	ATGATTA TTA AAC ATGATTA	1
727	CHIP3671	STM/STY	STM4464	STY4802	ATGGGTA TTACATC ATGGGTA	1
728	CHIP3687	STM specil	STM4496		ATGAATA TTA CTGA ATGAATA	1
729	CHIP3031	STM/STY	STM2359	STY2589	ATGAGTA TTATTTT CATGAGTA	1
730	CHIP2283	STM/STY	STM1190	STY1229	ATGCAAA TTA CTTA ATGCAAA	1
731	CHIP2307	STM/STY	STM1343	STY1767	ATGCGTT TTA AAT ATGCGTT	1
732	CHIP2323	STM/STY	STM1084	STY1111	ATGTTGA TTA AATA ATGTTGA	1
733	CHIP1341	STM/STY	STM0301	STY0336	ATGAAGT TTATCTG ATGAAGT	1
734	CHIP1357	STM/STY	STM0232	STY0255	ATGAGTC TTAGGCG ATGAGTC	1
735	CHIP1469	STM/STY	STM0443	STY0485	ATGAGAC TTA ACC ATGAGAC	1
736	CHIP1397	STM/STY	STM0153	STY0176	ATGGCTA TTACATC ATGGCTA	1
737	CHIP3914	STM/STY	STM1317	STY1796	ATGGAAC TTA AATA ATGGAAC	1
738	CHIP3938	STM specil	STM1360		ATGTCTC TTA CTGG ATGTCTC	1
739	CHIP0517	STM/STY	STM2782	STY2900	ATGAAAA TTAGCAA GTGAAAA	1
740	CHIP3964	STM/STY	STM1460	STY1662	ATGACTA TTACGGA ATGACTA	1
741	CHIP3980	STM/STY	STM1486	STY1579	ATGAGTC TTAGGCG GTGAGTC	1
742	CHIP0573	STM/STY	STM4229	STY4425	ATGAAGA TTA CTTA ATGAAGA	1
743	CHIP1336	STM/STY	STM0306	STY0351	ATGAAAA TTA AAAG ATGAAAA	1
744	CHIP1448	STM/STY	STM0377	STY0409	ATGTCGG TTATCGC ATGTCGG	1
745	CHIP1458	STM/STY	STM0407	STY0445	ATGTTAA TTAGATT GTGTTAA	1
746	CHIP1386	STM/STY	STM0124	STY0144	ATGATTA TTA ACAT ATGATTA	1
747	CHIP1498	STM/STY	STM2363	STY2593	ATGGTCT TTACGTC ATGGTCT	1
748	CHIP0488	STM/STY	STM2785	STY2904	ATGCGTC TTA ACC ATGCGTC	1
749	CHIP3943	STM/STY	STM1370	STY1753	ATGTCTC TTA ACCG ATGTCTC	1
750	CHIP0544	STM/STY	STM3561	STY4251	ATGAGTC TTATGCC ATGAGTC	1
751	CHIP1557	STM/STY	STM0461	STY0504	ATGCGTA TTACGCC ATGCGTA	1
752	CHIP1573	STM/STY	STM0568	STY0617	ATGAAAA TTA ATGA GTGAAAA	1
753	CHIP4742	STM/STY	STM2210	STY2446	ATGGCCT TTA ACGA ATGGCCT	0
754	CHIP1997	STM/STY	STM4412	STY4771	ATGACCT TTAGCGC ATGACCT	1
755	CHIP3169	STM/STY	STM2645	STY2838	ATGACAC TTAGTAA GTGACAC	1
756	CHIP2045	STM/STY	STM3641	STY4161	ATGATTG TTA AAC ATGATTG	1
757	CHIP3219	STM/STY	STM3275	STY3458	ATGGCAG TTAGGCC ATGGCAG	1
758	CHIP1512	STM/STY	STM2292	STY2522	ATGTTGG TTA AGAT ATGTTGG	1
759	CHIP1528	STM/STY	STM2540	STY2786	ATGGATT TTA AAAA ATGGATT	1
760	CHIP1045	STM/STY	STM0027	STY0032	ATGCCTC TTA AATA ATGCCTC	1
761	CHIP2000	STM/STY	STM4415	STY4774	ATGAAAA TTA CGCG ATGAAAA	1
762	CHIP2016	STM/STY	STM4543	STY4896	ATGAAAA TTA ATAC ATGAAAA	1
763	CHIP3142	STM specil	STM2598		ATGAGCA TTAGTTG ATGAGCA	1
764	CHIP2018	STM/STY	STM4550	STY4903	ATGGCCT TTA CTTT ATGGCCT	1
765	CHIP2034	STM/STY	STM3709	STY4086	ATGCGTG TTAGGCA ATGCGTG	1
766	CHIP2050	STM/STY	STM3620	STY4180	ATGGCGA TTATCGC ATGGCGA	1
767	CHIP3214	STM/STY	STM3268	STY3451	ATGCAAG TTA CTCC GTGCAAG	1
768	CHIP1515	STM/STY	STM2282	STY2511	ATGAAAA TTAGTCA ATGAAAA	1
769	CHIP0722	STM/STY	STM2277	STY2506	ATGAATC TTAGATC ATGAATC	1

770	CHIP0738	STM/STY	STM2894	STY3017	ATGAAAA	TTAATTC	ATGAAAA	1
771	CHIP1805	STM/STY	STM4083	STY3787	ATGACCA	TTACGGT	ATGACCA	1
772	CHIP1837	STM/STY	STM0699	STY0737	ATGAGTA	TTATTCG	ATGAGTA	1
773	CHIP1869	STM/STY	STM0737	STY0780	ATGAGTA	TTACACG	ATGAGTA	1
774	CHIP0675	STM/STY	STM4005	STY3876	ATGCAAC	TTACTCC	ATGCAAC	1
775	CHIP0669	STM/STY	STM3469	STY4327	ATGATCC	TTAACGC	ATGATCC	1
776	CHIP1824	STM/STY	STM3999	STY3881	ATGGTTC	TTAGTGC	ATGGTTC	1
777	CHIP1856	STM/STY	STM0876	STY0909	ATGATAT	TTAGTGA	ATGATAT	1
778	CHIP1888	STM/STY	STM3459	STY4339	ATGATTG	TTAGTCG	ATGATTG	1
779	CHIP0614	STM/STY	STM4265	STY4463	ATGTCGC	TTACAGG	ATGTCGC	1
780	CHIP0726	STM/STY	STM2579	STY2825	ATGGAAG	TTAATCT	GTGGAAG	1
781	CHIP0105	STM/STY	STM1879	STY2085	ATGTTGC	TTATGCG	ATGTTGC	1
782	CHIP0129	STM/STY	STM4172	STY3713	ATGAAAC	TTACCAG	ATGAAAC	1
783	CHIP0145	STM/STY	STM4016	STY3862	ATGAAAT	TTAGAAG	ATGAAAT	1
784	CHIP3951	STM/STY	STM1425	STY1697	ATGTGCA	TTATATC	TGCAGAA	1
785	CHIP0401	STM/STY	STM2437	STY2675	ATGCGAG	TTACCGT	GTGCGAG	1
786	CHIP0417	STM/STY	STM0946	STY1844	ATGGGGC	TTACTTA	ATGGGGC	0
787	CHIP1286	STM/STY	STM2661	STY2850	ATGAATG	TTATATC	ATGAATG	1
788	CHIP1302	STM/STY	STM0051	STY0060	ATGACAG	TTACGGC	ATGACAG	1
789	CHIP4683	STM/STY	STM1007		ATGCGCC	TTAGTTT	ATGCGCC	0
790	CHIP4707	STM/STY	STM1859	STY1994	ATGTTCA	TTATAAC	ATGTTCA	1
791	CHIP4739	STM/STY	STM3035	STY3184	ATGCATA	TTACTTT	ATGCATA	1
792	CHIP3624	STM/STY	STM4372	STY4728a	ATGACGT	TTAATAG	ACGTGGA	1
793	CHIP0174	STM/STY	STM4504	STY4859	ATGCACA	TTATAAG	ATGCACA	1
794	CHIP0190	STM/STY	STM2051	STY2256	ATGAATA	TTAGCGA	ATGAATA	1
795	CHIP1233	STM/STY	STM4280	STY4478	ATGACAT	TTATGCA	ATGACAT	1
796	CHIP1249	STM/STY	STM1905	STY2113	ATGTCTC	TTATGCG	ATGTCTC	1
797	CHIP0438	STM/STY	STM4258	STY4453	ATGAGTA	TTAATCT	ATGAGTA	1
798	CHIP1297	STM/STY	STM0009	STY0009	ATGGGCA	TTAGTGC	ATGGGCA	1
799	CHIP1291	STM specil	STM2696		ATGATGA	TTACTGC	ATGATGA	1
800	CHIP1307	STM/STY	STM0040	STY0048	ATGAGCA	TTACTGT	ATGAGCA	1
801	CHIP0063	STM/STY	STM3919	STY3636	ATGACGC	TTATTAAC	ACGCGCC	1
802	CHIP0025	STM/STY	STM3962	STY3597	ATGTATC	TTAGCGT	ATGTATC	1
803	CHIP0049	STM/STY	STM3937	STY3622	ATGAGTA	TTATTGT	ATGAGTA	1
804	CHIP2177	STM/STY	STM3070	STY3228	ATGATGA	TTATAAA	ATGACCG	1
805	CHIP1702	STM/STY	STM1754	STY1296	ATGAGAA	TTAAACG	ATGAGAA	1
806	CHIP1718	STM/STY	STM1790	STY1917	ATGAGGC	TTATTGT	ATGAGGC	0
807	CHIP1734	STM/STY	STM3017	STY3162	ATGATTT	TTAACGC	ATGATTT	1
808	CHIP1750	STM/STY	STM2959	STY3097	ATGAAAA	TTAGCGT	ATGAAAA	1
809	CHIP1766	STM/STY	STM2985	STY3125	ATGACAA	TTAACCC	ATGACAA	1
810	CHIP1782	STM/STY	STM4053	STY3819	ATGAACA	TTAATCA	ATGAACA	1
811	CHIP1768	STM/STY	STM2969	STY3108	ATGATTA	TTAAGCG	TTGATTA	1
812	CHIP1792	STM/STY	STM4032	STY3846	ATGCCAC	TTAGGTC	ATGCCAC	1
813	CHIP0022	STM/STY	STM3965	STY3594	ATGACAA	TTATTTT	ATGACAA	1
814	CHIP0038	STM/STY	STM3949	STY3610	ATGACGC	TTATTTT	ATGACGC	1
815	CHIP0062	STM/STY	STM3920	STY3635	ATGAAAG	TTATAAC	GTGAAAG	1
816	CHIP0086	STM/STY	STM4138	STY3741	ATGAAAG	TTATTCG	ATGAAAG	1
817	CHIP1739	STM/STY	STM2996	STY3134	ATGTTAA	TTAACGA	ATGTTAA	1
818	CHIP0928	STM/STY	STM1742	STY1309	ATGAATG	TTATAAC	ATGAATG	1
819	CHIP1779	STM/STY	STM4081	STY3789	ATGCGAC	TTAAGCC	ATGCGAC	1
820	CHIP4392	STM/STY	STM0483	STY0527	ATGACCG	TTAATGC	ATGACCG	1
821	CHIP4424	STM specil	STM0538		ATGAAGC	TTATTTT	ATGAAGC	1

822	CHIP4448	STM/STY	STM0585	STY0628	ATGAACA TTAGAAA ATGAACA	1
823	CHIP1182	STM/STY	STM0976	STY0976	ATGAAAG TTAACA/ATGAAAG	1
824	CHIP4466	STM/STY	STM0303	STY0338	ATGTCTT, TTAGTCA/ATGTCTT,	1
825	CHIP2754	STM/STY	STM1547	STY1514	ATGTCAG TTATTCC(ATGTCAG	1
826	CHIP2778	STM/STY	STM1586	STY1479	ATGCACT TTACAGA/ATGCACT	1
827	CHIP2802	STM specil	STM1625		ATGGAAA TTACAGC ATGGAAA	1
828	CHIP2826	STM/STY	STM1661	STY1403	ATGGCTA TTAATCG ATGGCTA	1
829	CHIP2820	STM/STY	STM1650		ATGCCGC TTATCCT GTGCCGC	1
830	CHIP2844	STM/STY	STM1698	STY1353	ATGCCGT TTATTTTT ATGCCGT	1
831	CHIP4405	STM/STY	STM0509	STY0556	ATGACAA TTAGAAA ATGACAA	1
832	CHIP1169	STM/STY	STM1001	STY1005	ATGAAGC TTAAGC/ATGAAGC	1
833	CHIP1185	STM/STY	STM0956	STY0954	ATGCGCC TTACAGA/ATGCGCC	1
834	CHIP4469	STM/STY	STM0620	STY0669	ATGCGCC TTAGTCG ATGCGCC	1
835	CHIP4463	STM/STY	STM0607	STY0652	ATGATTA TTAAGGC ATGATTA/	1
836	CHIP2855	STM/STY	STM1732	STY1319	ATGAAAA TTAGAAA(ATGAAAA,	1
837	CHIP2775	STM/STY	STM1573	STY1491a	ATGCTGG TTAATGC(ATGCTGG	1
838	CHIP2799	STM/STY	STM1621	STY1443	ATGAAAA TTATTGC ATGAAAA,	1
839	CHIP2823	STM/STY	STM1655	STY1410	ATGACCA TTATTTA GTGACCA	1
840	CHIP2839	STM/STY	STM1685	STY1376	ATGTCAA TTATCGC/ATGTCAA	1
841	CHIP4194	STM/STY	STM2957	STY3095	ATGGCGC TTACATG(ATGGCGC	1
842	CHIP4218	STM/STY	STM3006	STY3149	ATGTTAT TTACAGC ATGTTAT	1
843	CHIP4234	STM/STY	STM3036	STY3186	ATGATAA TTATTCA(ATGATAA	1
844	CHIP4258	STM/STY	STM3099	STY3252	ATGAATA TTACAGT(ATGAATA	1
845	CHIP4370	STM/STY	STM0447	STY0489	ATGCAAG TTACGCC ATGCAAG	1
846	CHIP2466	STM/STY	STM3583	STY4228	ATGTCAA TTATAGC GTGTCAA	1
847	CHIP2508	STM/STY	STM3679	STY4117	ATGAACG TTACCGC ATGAACG	1
848	CHIP2540	STM/STY	STM3767	STY4018	ATGCAGC TTACACC/ATGCAGC	1
849	CHIP4293	STM/STY	STM3176	STY3353	ATGAAAA TTACGGA ATGAAAA,	1
850	CHIP4221	STM/STY	STM3015	STY3159	ATGAAAA TTATTCT GTGAAAA	1
851	CHIP4245	STM specil	STM3079		ATGATGT TTAAGAG TTGATGT	1
852	CHIP4269	STM specil	STM3123		ATGTTGA TTAGCCC ATGTTGA	1
853	CHIP2487	STM/STY	STM3628	STY4170	ATGTCAC TTAAGTC ATGTCAC	1
854	CHIP2503	STM/STY	STM3665	STY4133	ATGGTTA TTAGCCT ATGGTTA	1
855	CHIP2519	STM/STY	STM3697	STY4099	ATGGCTT TTAAGGG ATGGCTT	1
856	CHIP2535	STM/STY	STM3748	STY4045	ATGAAAT TTACAGC ATGAAAT	1
857	CHIP4488	STM/STY	STM0358	STY0389	ATGATGA TTAGTTT(ATGATGA	1
858	CHIP1628	STM/STY	STM2853	STY2975	ATGACTA TTATACC(ATGACTA	1
859	CHIP2173	STM/STY	STM3132	STY3302	ATGGGAT TTATTTG(ATGGGAT	1
860	CHIP1614	STM/STY	STM2855	STY2977	ATGTGTA TTATGCA(ATGTGTA	1
861	CHIP1638	STM/STY	STM2182	STY2412	ATGATGA TTAGCGC ATGATGA	1
862	CHIP1654	STM/STY	STM2084	STY2293	ATGTCTT TTAACTA(ATGTCTT	1
863	CHIP1670	STM/STY	STM2121	STY2334	ATGCGTT TTAGTCT ATGCGTT	1
864	CHIP1686	STM/STY	STM2248	STY2474	ATGAAAC TTATTGC(ATGAAAC	0
865	CHIP1648	STM/STY	STM2218	STY2454	ATGCCGC TTATACC(ATGCCGC	1
866	CHIP1672	STM/STY	STM2145	STY2374	ATGGAAC TTAAGTC ATGGAAC	1
867	CHIP1688	STM/STY	STM1844	STY1975	ATGATGC TTATTTT/ATGATGC	1
868	CHIP1904	STM/STY	STM3418	STY4380	ATGGCCC TTATTTT GTGGCCC	1
869	CHIP2112	STM/STY	STM3591	STY4212	ATGGCTT TTAAGTC ATGGCTT	1
870	CHIP2128	STM/STY	STM3341	STY3522	ATGGATT TTATTTT/ATGGATT	1
871	CHIP2106	STM/STY	STM3612	STY4191	ATGTCTA TTACTGC ATGTCTA	1
872	CHIP2122	STM/STY	STM3512	STY4284	ATGCCAT TTAAGCC/ATGCCAT	1
873	CHIP1954	STM/STY	STM4404	STY4762	ATGTTAG TTAGTAA/ATGTTAG	1

874	CHIP2162	STM/STY	STM3182	STY3360	ATGTCTA/TTAGCAA/ATGTCTA/	1
875	CHIP1611	STM/STY	STM2837	STY2959	ATGAAAC/TTACTCA/ATGAAAC	1
876	CHIP4519	STM/STY	STM2186	STY2416	ATGCCGC/TTAACAT/ATGCCGC	1
877	CHIP2237	STM/STY	STM3162	STY3334	ATGGCTG/TTAGGCG/ATGGCTG	1
878	CHIP0370	STM/STY	STM1408	STY1712	ATGAGCG/TTATGCC/ATGAGCG	1
879	CHIP3337	STM/STY	STM0734	STY0777	ATGGTGC/TTAATAA/TTGGTGC	1
880	CHIP3377	STM/STY	STM0801	STY0835	ATGCGCA/TTAACCC/ATGCGCA	1
881	CHIP3417	STM specil	STM0858		ATGGGAG/TTACATC/ATGGGAG	1
882	CHIP0315	STM/STY	STM1175	STY1214	ATGGCGC/TTACTGG/GTGGCGC	1
883	CHIP3372	STM/STY	STM0793	STY0826	ATGACAA/TTAATGG/ATGACAA	1
884	CHIP3404	STM specil	STM0839		ATGTTGC/TTAATGA/TTGTTGC	1
885	CHIP2193	STM/STY	STM3332	STY3512	ATGACGA/TTAGTTT/ATGACGA	1
886	CHIP0326	STM/STY	STM3756	STY4032	ATGATGA/TTATAAA/ATGATGA	1
887	CHIP2233	STM/STY	STM3188	STY3366	ATGGAAA/TTATCCT/ATGGAAA	1
888	CHIP0366	STM/STY	STM1404	STY1716	ATGAAAA/TTATGGT/ATGAAAA	1
889	CHIP3399	STM/STY	STM0833	STY0872	ATGAAAA/TTAGAAG/ATGAAAA	1
890	CHIP3632	STM/STY	STM4384	STY4740	ATGACCG/TTACTTC/ATGACCG	1
891	CHIP3656	STM specil	STM4430		ATGTCAA/TTAACGC/ATGTCAA	1
892	CHIP4346	STM/STY	STM0394	STY0428	ATGAAAA/TTATCCG/ATGAAAA	1
893	CHIP3704	STM/STY	STM4525		ATGAACA/TTATGCC/ATGAACA	1
894	CHIP4372	STM/STY	STM0453	STY0495	ATGAAAC/TTACAAT/ATGAAAC	1
895	CHIP4428	STM/STY	STM0551	STY0599	ATGGTGC/TTAATAT/TTGGTGC	1
896	CHIP4429	STM/STY	STM0554	STY0602	ATGGTTC/TTAAGCC/ATGGTTC	0
897	CHIP4438	STM/STY	STM0298	STY0329	ATGCTGC/TTATTGG/ATGCTGC	1
898	CHIP4478	STM/STY	STM0342	STY0375	ATGTATT/TTATACC/ATGTATT/	1
899	CHIP4480	STM/STY	STM0344	STY0377	ATGAGTC/TTAATAA/ATGAGTC	1
900	CHIP1745	STM/STY	STM2967	STY3106	ATGGACC/TTACAGA/GTGGACC	1
901	CHIP4664	STM/STY	STM4316	STY4516	ATGAATG/TTAAGTA/TTGAATG	1
902	CHIP4603	STM/STY	STM4071	STY3799	ATGGGCC/TTACCAG/ATGGGCC	1
903	CHIP4644	STM/STY	STM3783	STY3999	ATGAGTA/TTAGGCT/ATGAGTA	1
904	CHIP2169	STM/STY	STM3143	STY3314	ATGTGTA/TTACGCG/ATGTGTA	1
905	CHIP1140	STM/STY	STM1535	STY1528	ATGTGTA/TTATTTT/ATGTGTA	1
906	CHIP1156	STM/STY	STM1520	STY1540	ATGAAAA/TTACGGC/TTGAAAA	1
907	CHIP2555	STM/STY	STM3805	STY3974	ATGAAGA/TTATCCG/ATGAAGA	1
908	CHIP2532	STM/STY	STM3744	STY4048	ATGTCAG/TTAGGCG/ATGTCAG	1
909	CHIP2485	STM/STY	STM3623	STY4177	ATGATGA/TTATTTT/ATGATGA	1
910	CHIP1324	STM/STY	STM3795	STY3987	ATGCAGA/TTACTCA/ATGCAGA	1
911	CHIP2428	STM specil	STM3516		ATGGGGC/TTAAAT/ATGGGGC	1
912	CHIP3941	STM/STY	STM1366	STY1757	ATGATCT/TTACACA/TTGATCT/	1
913	CHIP0084	STM/STY	STM4133		ATGCTTG/TTAGCCT/AGGCTTG	1
914	CHIP4642	STM specil	STM1865		ATGACGC/TTACCCT/CTGACGC	1
915	CHIP4666	STM/STY	STM4478		ATGGATT/TTATACT/ATGGATT	1
916	CHIP4604	STM/STY	STM4000		ATGTTCT/TTAGCCA/ATGTTCT/	1
917	CHIP4661	STM/STY	STM4140		ATGTCGT/TTAAGTT/TATTCGT/	1
918	CHIP4654	STM/STY	STM3911	STY3643	ATGCCCG/TTAGCAG/CTGCCCG	1
919	CHIP3272	STM/STY	STM3387		ATGATAC/TTACTCC/ATGATAC/	1
920	CHIP3237	STM/STY	STM3308	STY3487	ATGGAAA/TTAAAT/ATGGAAA	1
921	CHIP2947	STM/STY	STM1939	STY2147	ATGGTAA/TTATACC/GTGGTAA	1
922	CHIP0824	STM specil	PSLT054		ATGTTCC/TTAAGTC/ATGTTCC	1
923	CHIP1011	STM specil	PSLT055		ATGTTAC/TTAGTCT/ATGTTAC	1
924	CHIP0657	STM specil	PSLT040		ATGAATA/TTAAACT/ATGAATA	1
925	CHIP1078	STM specil	PSLT064		ATGTGAA/TTACGGC/TGAATCT/	1

926	CHIP0952	STM specil	PSLT051		ATGAAAA	TTAGTGG	ATGAAAA	1
927	CHIP1058	STM specil	PSLT024		ATGACCC	TTATCCA	ATCACCC	0
928	CHIP1076	STM specil	PSLT062		ATGCAGT	TTAGTCG	ATGCAGT	1
929	CHIP1051	STM specil	PSLT004		ATGTCTA	TTATACT	GTGTCTA	1
930	CHIP0943	none	R460026		ATGAAGC	TTAGAAT	ATGAAGC	0
931	CHIP4779	STM/STY			GTGAGCC	TAAACCA	GTGAGCC	0
932	CHIP4783	STM/STY			TCGATTT	ACGGGAT	TCGATTT	0
933	CHIP4787	STM/STY			GGAATCG	ACTTTTT	GGAATCG	0
934	CHIP4791	STM/STY			CAGCTAG	GCGAGCT	CAGCTAG	0
935	CHIP4795	STM/STY	STM2479	STY2717	TATGGCC	ACAGTTG	TATGGCC	1
936	CHIP4799	STM specil	STM2509		TGGTCGT	CCATTCA	TGGTCGT	1
937	CHIP4917	STY specific		STY0205	ATGCTCG	TTATTCC	ATGCTCG	0
938	CHIP4933	STY specific		STY0326	ATGAATA	TTATCCC	ATGAATA	0
939	CHIP4949	STM/STY			ATGGCGA	TTAGGCC	ATGGCGA	0
940	CHIP4965	STY specific		STY1030	ATGGTAT	TTAGACC	ATGGTAT	0
941	CHIP4981	STY specific		STY1052	ATGATTA	TTAGATA	ATGATTA	0
942	CHIP5088	STY specific		STY2027	ATGGAAT	TTATTCC	ATGGAAT	0
943	CHIP4943	STM/STY		STY0405	ATGCACT	TTACCAG	ATGCACT	0
944	CHIP4959	STY specific		STY1019	ATGACTA	TTAATGG	ATGACTA	0
945	CHIP4975	STY specific		STY1046	ATGGCAA	TTAAGCG	ATGGCAA	0
946	CHIP5083	STY specific		STY2021	ATGAGTT	TTAGAAG	ATGAGTT	0
947	CHIP5191	STY specific		STY3087	ATGAACA	TTACTTA	ATGAACA	0
948	CHIP5205	STY specific		STY3285	ATGGCTA	TTATGGT	ATGGCTA	0
949	CHIP4953	STY specific		STY0947	ATGTATC	TTACAGT	ATGTATC	0
950	CHIP4969	STY specific		STY1040	ATGTCCG	TTATTTG	ATGTCCG	0
951	CHIP4984	STY specific		STY1056	ATGCCGA	TTATTGC	ATGCCGA	0
952	CHIP5092	STY specific		STY2031	ATGCCGA	TTATTGC	ATGCCGA	0
953	CHIP5201	STY specific		STY3193	ATGCTCA	TTAAATG	ATGCTCA	0
954	CHIP5213	STY specific		STY3347	ATGCTGG	TTATTTT	ATGCTGG	0
955	CHIP4971	STM/STY			ATGAATC	TTATACC	ATGAATC	0
956	CHIP4986	STY specific		STY1058	ATGGCAC	TTAGCGA	ATGGCAC	0
957	CHIP5002	STY specific		STY1076	ATGTTCT	TTATGGG	ATGTTCT	0
958	CHIP5109	STY specific		STY2050	ATGATTT	TTAACAA	GTGATTT	0
959	CHIP5215	STM/STY	STM0055	STY3532	ATGACTA	TTACGCC	ATGACTA	0
960	CHIP5231	STY specific		STY3667	ATGAGCA	TTATGCA	ATGAGCA	0
961	CHIP5432	STM/STY		STY4854	ATGAGCG	TTATAAA	ATGAGCG	0
962	CHIP5290	STM/STY			ATGCCGC	TTAGGCA	ATGCCGC	0
963	CHIP5306	STY specific		STY4534	ATGTCTA	TTAGAAC	ATGTCTA	0
964	CHIP5402	STY specific		STY4677	ATGGCCT	TTATCCA	TTGGCCT	0
965	CHIP5418	STY specific		STY4830	ATGAGAC	TTATACG	ATGAGAC	0
966	CHIP5433	STM/STY			ATGAAAT	TTATGAT	GTGAAAT	0
967	CHIP5339	STY specific		STY4578	ATGACAC	TTACCTC	ATGACAC	0
968	CHIP5355	STY specific		STY4595	ATGTTTC	TTAACAC	ATGTTTC	0
969	CHIP5376	STY specific		STY4636	ATGAGCA	TTACTGC	ATGAGCA	0
970	CHIP5388	STY specific		STY2419	ATGGACC	TTATTGA	ATGGACC	0
971	CHIP5399	STY specific		STY4674	ATGGGCC	TTAGAAG	TTGGGCC	0
972	CHIP5340	STY specific		STY4579	ATGACGA	TTATTTA	ATGACGA	0
973	CHIP2568	STM/STY	STM3821	STY3957	ATGATTA	TTATTCA	ATGATTA	1
974	CHIP2584	STM/STY	STM3843	STY3937	ATGAGCC	TTACTTA	ATGAGCC	1
975	CHIP2600	STM/STY	STM3871	STY3907	ATGGCTT	TTAATGC	ATGGCTT	1
976	CHIP0841	STM/STY	STM3715	STY4080	ATGGGCA	TTAGACA	ATGGGCA	1
977	CHIP3240	STM/STY	STM3313	STY3492	ATGGGTC	TTAACTC	ATGGGTC	1

978	CHIP3256	STM/STY	STM3350		ATGATTC TTAGTCA GTGATTC	1
979	CHIP3250	STM/STY	STM3342	STY3523	ATGGCTG TTAACCC ATGGCTG	1
980	CHIP3266	STM/STY	STM3374	STY3554	ATGTTGA TTA CTCT ATGTTGA	1
981	CHIP3282	STM/STY	STM0637	STY0688	ATGAAGA TTATCCA ATGAAGA	1
982	CHIP3298	STM specil	STM0659		ATGGATA TTACGGC ATGGATA	1
983	CHIP3314	STM/STY	STM0693	STY0731	ATGACTG TTATTTA ATGACTG	1
984	CHIP2571	STM/STY	STM3824	STY3954	ATGTCAC TTAATAC ATGTCAC	1
985	CHIP2748	STM/STY	STM1537	STY1526	ATGCATC TTACCTG ATGCATC	1
986	CHIP2573	STM specil	STM3828		ATGCAGT TTACCAC ATGCAGT	0
987	CHIP2589	STM/STY	STM3848	STY3935	ATGAAGA TTAGATA ATGAAGA	1
988	CHIP2605	STM/STY	STM3880	STY3898	ATGAGCA TTAATC ATGAGCA	1
989	CHIP0838	STM/STY	STM1332	STY1779	ATGCTTA TTATTTA ATGCTTA	1
990	CHIP0862	STM/STY	STM0776	STY0809	ATGAGAG TTAATCT ATGAGAG	1
991	CHIP0808	STM/STY	STM2030	STY2235	ATGAAAG TTAATG ATGAAAG	1
992	CHIP0840	STM/STY	STM3714	STY4081	ATGATTA TTA CTTA ATGATTA	1
993	CHIP2647	STM/STY	STM0084	STY0098	ATGAAAA TTAATCT ATGAAAA	1
994	CHIP2671	STM/STY	STM0138	STY0160	ATGTCTG TTAGCGC ATGTCTG	1
995	CHIP2687	STM/STY	STM0171	STY0193	ATGAAAG TTATTGG ATGAAAG	1
996	CHIP2711	STM/STY	STM0211	STY0233	ATGTATG TTA CTTA ATGTATG	1
997	CHIP2385	STM/STY	STM3405	STY4392	ATGGCCC TTAACA ATGGCCC	1
998	CHIP2401	STM/STY	STM3461	STY4337	ATGTCGA TTAGCGG ATGTCGA	1
999	CHIP3865	STM/STY	STM1211	STY1251	ATGACTA TTAATGC TTGACTA	1
1000	CHIP3881	STM/STY	STM1253	STY1868	ATGGCAC TTATGAT ATGGCAC	1
1001	CHIP3897	STM/STY	STM1286	STY1830	ATGACCA TTAGAAT GTGACCA	1
1002	CHIP4010	STM/STY	STM2116	STY2329	ATGGGCC TTATTTG GTGGGCC	1
1003	CHIP3867	STM/STY	STM1214	STY1254	ATGAAAA TTA CTTA ATGAAAA	1
1004	CHIP3883	STM/STY	STM1261	STY1859	ATGCAAC TTACGCG ATGCAAC	1
1005	CHIP3899	STM/STY	STM1288	STY1828	ATGAAAA TTACACC GTGAAAA	1
1006	CHIP4012	STM/STY	STM2119	STY2332	ATGGAAT TTACATC ATGGAAT	1
1007	CHIP3740	STM/STY	STM4600	STY4949	ATGCGTG TTATTTT ATGCGTG	1
1008	CHIP4060	STM specil	STM2753		ATGAACA TTAACA ATGAACA	1
1009	CHIP4006	STM/STY	STM2109	STY2321	ATGTCAA TTAGGAC ATGTCAA	1
1010	CHIP4022	STM/STY	STM2136	STY2365	ATGATGT TTA CTTA ATGATGT	1
1011	CHIP3750	STM specil	STM0275		ATGAGCC TTAATTA GTGAGCC	1
1012	CHIP3766	STM/STY	STM0297	STY0343	ATGCGTA TTAGCTT ATGCGTA	1
1013	CHIP3782	STM specil	STM0329		ATGTCTG TTATTCC ATGTCTG	1
1014	CHIP3798	STM/STY	STM1061	STY1082	ATGAATT TTAGGCG ATGAATT	1
1015	CHIP4144	STM/STY	STM4126	STY3748	ATGCCAC TTA AAC ATGCCAC	1
1016	CHIP4168	STM/STY	STM2915	STY3040	ATGCCGC TTAGCGC ATGCCGC	1
1017	CHIP3048	STM/STY	STM2386	STY2618	ATGAAAA TTAGGGT ATGAAAA	1
1018	CHIP3064	STM/STY	STM2424	STY2660	ATGAACT TTATAGC ATGAACT	1
1019	CHIP3464	STM specil	STM0921		ATGCGGC TTAGGAA ATGCGGC	1
1020	CHIP3104	STM/STY	STM2526	STY2771	ATGGCTA TTAACGG ATGGCTA	1
1021	CHIP3458	STM specil	STM0915		ATGAACA TTAGTTG ATGAACA	1
1022	CHIP3098	STM/STY	STM2510	STY2751	ATGACGC TTATTCC ATGACGC	1
1023	CHIP3114	STM/STY	STM2544	STY2790	ATGAGAC TTAAGCG ATGAGAC	1
1024	CHIP3130	STM specil	STM2586		ATGACGT TTATAAAC ATGACGT	0
1025	CHIP4107	STM/STY	STM4059	STY3812	ATGAATA TTATGAA ATGAATA	1
1026	CHIP3555	STM specil	STM4213		ATGGCAG TTAGCGA ATGGCAG	1
1027	CHIP4165	STM/STY	STM2911	STY3036	ATGACGT TTATGAT ATGACGT	1
1028	CHIP4189	STM specil	STM2944		ATGTCGA TTATTCC GTGTCGA	1
1029	CHIP3069	STM/STY	STM2441	STY2678	ATGAGCA TTAGGCC ATGAGCA	1

1030	CHIP3085	STM/STY	STM2486	STY2724	ATGATTA TTAAAAG GTGATTA	1
1031	CHIP3493	STM/STY	STM0972	STY0971	ATGCCAG TTATATA ATGCCAG	1
1032	CHIP3509	STM/STY	STM1003	STY1009	ATGTTAG TTA CTCC ATGTTAG	1
1033	CHIP3503	STM/STY	STM0991	STY0993	ATGCAGG TTA CTCA ATGCAGG	1
1034	CHIP2952	STM/STY	STM1953	STY2161	ATGCCAC TTATACA ATGCCAC	1
1035	CHIP2976	STM/STY	STM2075	STY2284	ATGATGA TTACATC GTGATGA	1
1036	CHIP3016	STM/STY	STM2333	STY2563	ATGAACG TTA AAC GTGAACC	1
1037	CHIP0193	STM/STY	STM2054	STY2259	ATGTCTC TTACCCC ATGTCTC	1
1038	CHIP2292	STM/STY	STM1270	STY1851	ATGCATT TTAAGAC GTGCATT	1
1039	CHIP2278	STM/STY	STM1132	STY1169	ATGATAG TTA AAT GTGATAG	1
1040	CHIP2302	STM/STY	STM1327	STY1784	ATGAAGC TTACATC ATGAAGC	1
1041	CHIP0251	STM/STY	STM0371	STY0403	ATGTCTT TTA TCT ATGTCTT	1
1042	CHIP2350	STM/STY	STM1318	STY1793	ATGTCGC TTATGCA ATGTCGC	1
1043	CHIP3619	STM/STY	STM4355	STY4712	ATGTCAA TTAGGCA ATGTCAA	1
1044	CHIP2963	STM/STY			ATGAACA TTAGAAC ATGAACA	0
1045	CHIP2360	STM/STY	STM1390	STY1730	ATGTCGT TTATAGT ATGTCGT	1
1046	CHIP3629	STM/STY	STM4378	STY4734	ATGGAGC TTAGGCA ATGGAGC	1
1047	CHIP3645	STM specil	STM4418		ATGTCCA TTAATCA ATGTCCA	1
1048	CHIP2989	STM/STY	STM2276	STY2505	ATGAACA TTAGGCT ATGAACA	1
1049	CHIP3685	STM specil	STM4494		ATGAAAA TTAACGC ATGAAAA	1
1050	CHIP3701	STM/STY	STM4519	STY4876	ATGGCTT TTAGCGG ATGGCTT	1
1051	CHIP2999	STM/STY	STM2298	STY2528	ATGTTTG TTATTGG ATGTTTG	1
1052	CHIP3015	STM/STY	STM2332	STY2562	ATGAAGC TTA AAGC ATGAAGC	1
1053	CHIP3711	STM specil	STM4537		ATGGTAG TTAGAAA ATGGTAG	1
1054	CHIP2291	STM/STY	STM1269	STY1852	ATGATTC TTAACGC ATGATTC	1
1055	CHIP0232	STM specil	STM0200		ATGGCTA TTA AATG ATGGCTA	1
1056	CHIP0248	STM/STY	STM0368	STY0400	ATGTCTT TTACGAT ATGTCTT	1
1057	CHIP1437	STM/STY	STM2649	STY2842	ATGAACA TTACAGC ATGAACA	1
1058	CHIP1453	STM/STY	STM0390	STY0423	ATGAGTG TTAGACA ATGAGTG	1
1059	CHIP1477	STM/STY	STM4236	STY4432	ATGGCCA TTATCGA ATGGCCA	1
1060	CHIP1501	STM/STY	STM2347	STY2577	ATGAAAC TTACGAG ATGAAAC	1
1061	CHIP0491	STM/STY	STM2297	STY2527	ATGGCTG TTATTGT ATGGCTG	1
1062	CHIP0515	STM/STY	STM4226	STY4422	ATGATGC TTATTCT ATGATGC	1
1063	CHIP3948	STM/STY	STM1375	STY1748	ATGAAAC TTA CTGC ATGAAAC	1
1064	CHIP0541	STM/STY	STM1582	STY1483	ATGACCT TTA TTTT ATGACCT	1
1065	CHIP0557	STM/STY	STM2265	STY2491	ATGAAAA TTA CTCC ATGAAAA	1
1066	CHIP1320	STM/STY	STM3785	STY3997	ATGAAAA TTAGGCA ATGAAAA	1
1067	CHIP1432	STM/STY	STM2577	STY2823	ATGGCGA TTA ACTT ATGGCGA	1
1068	CHIP1360	STM/STY	STM0165	STY0187	ATGAAAA TTAGACC TTGAAAA	1
1069	CHIP1370	STM/STY	STM2061	STY2266	ATGGATT TTA CTTC ATGGATT	1
1070	CHIP1394	STM/STY	STM0146	STY0168	ATGTTGC TTATGTC ATGTTGC	1
1071	CHIP1410	STM/STY	STM0156	STY0179	ATGAAAA TTATTCG ATGAAAA	1
1072	CHIP3919	STM/STY	STM1333	STY1778	ATGCCTG TTATTCC ATGCCTG	1
1073	CHIP0528	STM/STY	STM0425	STY0464	ATGAAGT TTACGGA ATGAAGT	1
1074	CHIP3975	STM/STY	STM1477	STY1645	ATGGAAA TTA ACCC ATGGAAA	1
1075	CHIP1018	STM/STY	STM0495	STY0541	ATGACAC TTAATCC ATGACAC	1
1076	CHIP1581	STM/STY	STM0496	STY0542	ATGGAGC TTA TTTC ATGGAGC	1
1077	CHIP1597	STM/STY	STM0594	STY0638	ATGAGAC TTA AAC GTGAGAC	1
1078	CHIP2005	STM/STY	STM4475	STY4814	ATGGAAA TTACAGC ATGGAAA	1
1079	CHIP2029	STM/STY	STM4598	STY4947	ATGCAGA TTAATCC ATGCAGA	1
1080	CHIP3193	STM/STY	STM3216	STY3394	ATGTTTT TTAAGCG ATGTTTT	1
1081	CHIP2079	STM/STY	STM3743	STY4049	ATGAATC TTA CCT ATGAATC	1

1082	CHIP0973	STM/STY	STM1260	STY1860	ATGGAGT T TACTGC.ATGGAGT	1
1083	CHIP1544	STM/STY	STM2421	STY2657	ATGGGTA TTAATGT(ATGGGTA	1
1084	CHIP1600	STM/STY	STM2773	STY2890	ATGCGTA TTAGCCG ATGCGTA	1
1085	CHIP3148	STM specil	STM2604		ATGTCAT T TACGGT ATGTCAT	1
1086	CHIP3164	STM/STY	STM1019	STY1032	ATGAGAA TTAATAA/ATGAGAA	0
1087	CHIP3150	STM specil	STM2606		ATGAAGC T TACGTT(GTGAAGC	1
1088	CHIP3166	STM/STY	STM2642	STY2835	ATGTCTC. T TACATA/ATGTCTC.	1
1089	CHIP3182	STM/STY	STM3192	STY3370	ATGCGTG T TATTTA/ATGCGTG	1
1090	CHIP2058	STM/STY	STM3587	STY4223	ATGGACA T TATTGC(ATGGACA	1
1091	CHIP2074	STM/STY	STM3490	STY4306	ATGAACG T TAGCCT GTGAACG	1
1092	CHIP0976	STM/STY	STM2453	STY2690	ATGGACC T TAGCGG ATGGACC	1
1093	CHIP0634	STM/STY	STM2887	STY3010	ATGTCCT T TAAATGC(ATGTCCT	1
1094	CHIP0746	STM/STY	STM2465		ATGGAAG T TAAATG ATGGAAG	1
1095	CHIP1813	STM/STY	STM4056	STY3815	ATGCATT T TATTTT(ATGCATT,	1
1096	CHIP1845	STM/STY	STM0661	STY0706	ATGGCAC T TATGCG ATGGCAC	1
1097	CHIP1877	STM/STY	STM0708	STY0748	ATGGAAC T TAAATA/ATGGAAC	1
1098	CHIP0683	STM/STY	STM2900	STY3023	ATGAAAA T TATAAG(ATGAAAA,	1
1099	CHIP0765	STM/STY	STM0552	STY0600	ATGCTGC T TACTTA(ATGCTGC	1
1100	CHIP1832	STM/STY	STM0784	STY0817	ATGCCGA T TATAGC.ATGCCGA	1
1101	CHIP1864	STM/STY	STM0771	STY0803	ATGCGCC T TAAACA(ATGCGCC	1
1102	CHIP0678	STM/STY	STM1070	STY1091	ATGAAAA T TAAAGCC ATGAAAA,	1
1103	CHIP0710	STM/STY	STM1177	STY1216	ATGTCTT T TAGCGC ATGTCTT	1
1104	CHIP0734	STM/STY	STM1776	STY1901	ATGAAGC T TATTCC ATGAAGC	1
1105	CHIP0113	STM/STY	STM1928	STY2137	ATGAGTC T TAGGCC ATGAGTC	1
1106	CHIP4712	STM/STY	STM1999	STY2207	ATGGGCC T TATGGG ATGGGCC	1
1107	CHIP0153	STM/STY	STM3869	STY3909	ATGAATC T TACAGT GTGAATC	1
1108	CHIP0385	STM/STY	STM1435	STY1687	ATGCGTT T TAGTTG(ATGCGTT	1
1109	CHIP1236	STM/STY	STM1952	STY2160	ATGCAAG T TATTTT(ATGCAAG	1
1110	CHIP1252	STM/STY	STM1675	STY1389	ATGACGC T TAGGCG ATGACGC	1
1111	CHIP0459	STM/STY	STM2638	STY2831	ATGAAGC T TATTGT/ATGAAGC	1
1112	CHIP0475	STM/STY	STM0730	STY0773	ATGGCTG T TAAACGC ATGGCTG	1
1113	CHIP0108	STM/STY	STM1230	STY1270	ATGAATA T TATTCC ATGAATA/	1
1114	CHIP0132	STM/STY	STM4175	STY3710	ATGAAAG T TAGTTT/ATGAAAG	1
1115	CHIP0164	STM/STY	STM3286	STY3467	ATGACAG T TAAAGCG ATGACAG	1
1116	CHIP0180	STM/STY	STM2041	STY2246	ATGGAAA T TAAAGC(ATGGAAA	1
1117	CHIP3669	STM/STY	STM4453	STY4793	ATGATGA T TATTAG(ATGACTA	1
1118	CHIP0390	STM/STY	STM1394	STY1726	ATGGTAG T TAAACCA ATGGTAG	1
1119	CHIP0406	STM/STY	STM1194	STY1233	ATGACGC T TATTGC(ATGACGC	1
1120	CHIP1257	STM/STY	STM1705	STY1346	ATGTTTA T TATTTT(ATGTTTA	1
1121	CHIP1273	STM/STY	STM3355	STY3535	ATGAGCA T TAGAAA ATGAGCA	1
1122	CHIP0470	STM/STY	STM3721	STY4073	ATGGTTG T TACAGA ATGGTTG	1
1123	CHIP0464	STM specil	STM1009		ATGAGTG T TATGCC ATGAGTG	0
1124	CHIP0480	STM/STY	STM1143	STY1180	ATGAAAA T TAGCGT ATGAAAA,	1
1125	CHIP0009	STM/STY	STM3979	STY3580	ATGACAA T TAAATA/ATGACAA	1
1126	CHIP0702	STM/STY	STM2673	STY2860	ATGCAAG T TATAAG/CAAGAGC	1
1127	CHIP0057	STM/STY	STM3925	STY3630	ATGATTC T TTAGGAG ATGATTC	1
1128	CHIP0073	STM/STY	STM3906	STY3651	ATGGGAT T TACAAG GTGGGAT	1
1129	CHIP0875	STM/STY	STM1181	STY1220	ATGTTTA T TTAGATG. GTGTTTA	1
1130	CHIP0891	STM/STY	STM3477	STY4319	ATGGACC T TAAATGA GTGGACC	1
1131	CHIP0907	STM/STY	STM3002	STY3143	ATGACCA T TAGGAA ATGACCA	1
1132	CHIP0923	STM/STY	STM3210	STY3389	ATGGCTG T TATTTT(ATGGCTG	1
1133	CHIP0939	STM/STY	STM0427	STY0466	ATGTCAC T TAGCTC ATGTCAC	1

1134	CHIP1790	STM/STY	STM4036	STY3841	ATGGCTT TTATTTG(ATGGCTT	1
1135	CHIP0941	STM/STY	STM0828	STY0866	ATGATTG TTAGGAG GTGATTG	1
1136	CHIP0006	STM/STY	STM3982	STY3578	ATGGAAC TTAACCC(ATGGAAC	1
1137	CHIP0548	STM/STY	STM1914	STY2123	ATGATGG TTACATA/TGGCAGA	1
1138	CHIP1164	STM/STY	STM0996	STY0998	ATGGGAC TTAGCCG GGACAAA	1
1139	CHIP2093	STM/STY	STM3677	STY4119	ATGTGTT TTATTAC TGTTAGA	1
1140	CHIP2695	STM/STY	STM0179	STY0197	ATGGCGC TTATTAT(GCGCGTT	1
1141	CHIP0912	STM/STY	STM0608	STY0653	ATGTCCT TTAGATT ATGTCCT	1
1142	CHIP1763	STM/STY	STM3011	STY3155	ATGGCGA TTAATCG(ATGGCGA	1
1143	CHIP1787	STM/STY	STM4039	STY3837	ATGAAAA TTAGAAC ATGAAAA	1
1144	CHIP1132	STM/STY	STM1893	STY2101	ATGATTG TTAGCTT(ATGATTG	1
1145	CHIP1172	STM/STY	STM1559	STY1504	ATGATCC TTAGTCG ATGATCC	1
1146	CHIP1188	STM/STY	STM1578	STY1487	ATGAAAA TTATTCC(ATGAAAA	1
1147	CHIP1190	STM/STY	STM1580	STY1485	ATGATAC TTAGCGG ATGATAC	1
1148	CHIP4474	STM/STY	STM0337	STY0370	ATGCTTT TTA CTGA ATGCTTT	1
1149	CHIP2858	STM/STY	STM1739	STY1312	ATGACAA TTACAGC ATGACAA	1
1150	CHIP2882	STM/STY	STM1800	STY1928	ATGTCTC TTACAA ATGTCTC	1
1151	CHIP2906	STM/STY	STM1847	STY1978	ATGACAG TTATCCT(ATGACAG	1
1152	CHIP2930	STM/STY	STM1891	STY2099	ATGATAG TTAATCT(GTGATAG	1
1153	CHIP2828	STM/STY	STM1663	STY1401	ATGTTCA TTATTTT(ATGTTCA	1
1154	CHIP4389	STM/STY	STM0479	STY0523	ATGGAAC TTAATGC(ATGGAAC	1
1155	CHIP1145	STM/STY	STM0613	STY0661	ATGGAAA TTAGTAC ATGGAAA	1
1156	CHIP4437	STM specil	STM0571		ATGAATA TTACCAG ATGAATA	1
1157	CHIP4453	STM/STY	STM0591	STY0635	ATGATGT TTATTTT GTGATGT	1
1158	CHIP4477	STM/STY	STM0341	STY0374	ATGATGG TTAGTAA(ATGATGG	1
1159	CHIP4471	STM/STY	STM0624	STY0673	ATGTTTG TTATTTT ATGTTTG	1
1160	CHIP2759	STM specil	STM1552		ATGAACC TTAATAA/GTGAACC	1
1161	CHIP2879	STM/STY	STM1793	STY1921	ATGTTGG TTAATAA/ATGTTGG	1
1162	CHIP2807	STM specil	STM1630		ATGAATG TTAAGC ATGAATG	1
1163	CHIP2927	STM/STY	STM1886	STY2094	ATGGCGC TTA CTCA ATGGCGC	1
1164	CHIP2943	STM specil	STM1933		ATGAAAA TTACCC ATGAAAA	1
1165	CHIP4290	STM specil	STM3169		ATGAAAA TTACATA ATGAAAA	1
1166	CHIP4314	STM/STY	STM2692	STY2878	ATGAAAA TTACCGC ATGAAAA	1
1167	CHIP4242	STM/STY	STM3069	STY3227	ATGTCTG TTA CTTC ATGTCTG	1
1168	CHIP4354	STM/STY	STM0410	STY0448	ATGACCA TTACGGC ATGACCA	1
1169	CHIP4282	STM/STY	STM3152	STY3325	ATGCGTT TTAGAAG ATGCGTT	1
1170	CHIP4586	STM/STY	STM2832	STY2953	ATGATCG TTATGAT/ATGATCG	1
1171	CHIP4628	STM/STY	STM0266	STY0286	ATGGACA TTA CTCC ATGGACA	1
1172	CHIP4668	STM/STY	STM4529	STY4887	ATGAGCA TTATTTCT ATGAGCA	1
1173	CHIP4205	STM/STY	STM2978	STY3118	ATGCTAA TTACGGC ATGCTAA	1
1174	CHIP4317	STM specil	STM2697		ATGAGTG TTATGAT ATGAGTG	1
1175	CHIP4341	STM/STY	STM0386	STY0419	ATGGAGA TTAGGAT ATGGAGA	1
1176	CHIP4365	STM/STY	STM0439	STY0481	ATGATGT TTACCAG ATGATGT	1
1177	CHIP4607	STM/STY	STM3004	STY3145	ATGATTG TTAACCT(GTGATTG	1
1178	CHIP4623	STM/STY	STM4445	STY4784	ATGGATG TTA AAAA CTGGATG	1
1179	CHIP4639	STM/STY	STM1504	STY1558	ATGCTAA TTACGTA ATGCTAA	1
1180	CHIP4655	STM/STY	STM3908	STY3649	ATGGATT TTAATTC(GTGGATT	1
1181	CHIP1612	STM/STY	STM2838	STY2960	ATGAGTG TTAGATA ATGAGTG	1
1182	CHIP4512	STM/STY	STM3540		ATGCGAC TTA AAAA ATGCGAC	1
1183	CHIP4482	STM/STY	STM0350	STY0384	ATGAGAA TTAACCT GTGAGAA	1
1184	CHIP1622	STM/STY	STM2828	STY2949	ATGCGGC TTAATCT(ATGCGGC	1
1185	CHIP4522	STM/STY	STM2191	STY2425	ATGATCA TTAGTTA(ATGATCA	1

1186	CHIP4538	STM/STY	STM2226	STY2463	ATGAGTC TTATTTCC(ATGAGTC	1
1187	CHIP4554	STM/STY	STM2140	STY2369	ATGGCTA TTAACGT,ATGGCTA	1
1188	CHIP4570	STM/STY	STM2172	STY2402	ATGCAGG TTAGGAA ATGCAGG	1
1189	CHIP4532	STM/STY	STM2204	STY2439	ATGAAAA TTATGCC ATGAAAA	1
1190	CHIP4556	STM/STY	STM2142	STY2371	ATGAAAA TTATTTTATGAAAA	1
1191	CHIP4572	STM/STY	STM2175	STY2405	ATGACTC TTAACGC ATGACTC	1
1192	CHIP2096	STM/STY	STM3671	STY4127	ATGAAGC TTAGGCT ATGAAGC	1
1193	CHIP1928	STM/STY	STM0930	STY0926	ATGCAGT TTATCGG ATGCAGT	1
1194	CHIP1944	STM/STY	STM4369	STY4726	ATGAGCG TTAGGTG ATGAGCG	1
1195	CHIP1922	STM/STY	STM3451	STY4347	ATGCGTT TAAAAAC ATGCGTT	1
1196	CHIP1938	STM/STY	STM4362	STY4719	ATGTTTG, TTAGATC, TTGTTTG,	1
1197	CHIP2146	STM/STY	STM3279	STY3460	ATGGCAA TTAAGTGG ATGGCAA	1
1198	CHIP1978	STM/STY	STM4583	STY4930	ATGACCC TTAGGCG ATGACCC	1
1199	CHIP1619	STM/STY	STM2820	STY2946	ATGTACG TTACAAT, ATGTACG	1
1200	CHIP1643	STM/STY	STM2213	STY2449	ATGACGA TTATTTG ATGACGA	1
1201	CHIP2245	STM/STY	STM3112	STY3267	ATGATGA TTATCGG ATGATGA	1
1202	CHIP2261	STM/STY	STM3061	STY3217	ATGACGC TTACCAC ATGACGC	1
1203	CHIP3345	STM/STY	STM0756	STY0797	ATGAGCG TTACGCC ATGAGCG	1
1204	CHIP3393	STM/STY	STM0821	STYrarB	ATGGCAT TTAACGC ATGGCAT	1
1205	CHIP2190	STM/STY	STM3042	STY3198	ATGAAAC TTATAGC GTGAAAC	1
1206	CHIP2206	STM/STY	STM3267	STY3450	ATGAAGG TTAAGTAA ATGAAGG	1
1207	CHIP3380	STM/STY	STM0806	STY0840	ATGCACG TTACCAA ATGCACG	1
1208	CHIP3412	STM/STY	STM0852	STY0891	ATGAGTA TTAACCC ATGAGTA	1
1209	CHIP0310	STM/STY	STM1384	STY1737	ATGACGC TTAGCCA ATGACGC	1
1210	CHIP2217	STM/STY	STM3231	STY3411	ATGAGCA TTAACCG GTGAGCA	1
1211	CHIP0350	STM/STY	STM2771		ATGGCAC TTAACGT, ATGGCAC	0
1212	CHIP2257	STM/STY	STM3073	STY3231	ATGCATC TTAACGT, ATGCATC	1
1213	CHIP3407	STM/STY	STM0843	STY0882	ATGACCC TTACAGC ATGACCC	1
1214	CHIP4337	STM/STY	STM0378	STY0410	ATGGCTG TTATTGG ATGGCTG	1
1215	CHIP4369	STM/STY	STM0446	STY0488	ATGATGA TTACGCG ATGATGA	1
1216	CHIP3680	STM specil	STM4489		ATGGATG TTAACCC ATGGATG	1
1217	CHIP4315	STM specil	STM2694		ATGATGA TTAGAAA ATGATGA	1
1218	CHIP3709	STM specil	STM4535		ATGAAGA TTAAGAAA ATGAAGA	1
1219	CHIP3608	STM/STY	STM4335	STY4695	ATGGTGC TTAGCTG ATGGTGC	1
1220	CHIP3601	STM specil	STM4320		ATGCAGA TTAGTCA ATGCAGA	1
1221	CHIP3602	STM/STY	STM4324	STY4683	ATGCTTG TTAGCGT ATGCTTG	1
1222	CHIP3611	STM/STY	STM4340	STY4700	ATGATTA TTAGAGA ATGATTA	1
1223	CHIP0770	STM/STY	STM2899	STY3022	ATGTCAT TTATTTG ATGTCAT	1
1224	CHIP0844	STM/STY	STM1779	STY1905	ATGATGA TTAGAGT ATGATGA	1
1225	CHIP4028	STM/STY	STM2709	STY4614	ATGACGC TTAATGA ATGACGC	1
1226	CHIP4005	STM/STY	STM2107	STY2319	ATGTGCA TTATAGG GTGTGCA	1
1227	CHIP2109	STM/STY	STM3605	STY4198	ATGCCGC TTAATTC ATGCCGC	1
1228	CHIP2138	STM/STY	STM3303	STY3482	ATGGCAC TTAAGTCA ATGGCAC	1
1229	CHIP2246	STM/STY	STM3111	STY3266	ATGAGCA TTATTTT ATGAGCA	1
1230	CHIP2186	STM/STY	STM3052	STY3208	ATGAAAC TTACCAG ATGAAAC	1
1231	CHIP1131	STM/STY	STM1888	STY2096	ATGTCCA TTAAGTCA ATGTCCA	1
1232	CHIP1203	STM/STY	STM1644	STY1425	ATGAAAA TTATTTAC ATGAAAA	1
1233	CHIP1281	STM/STY	STM3361	STY3542	ATGAAAA TTATTTG ATGAAAA	1
1234	CHIP1372	STM/STY	STM2059	STY2264	ATGGAAA TTATTCG ATGGAAA	1
1235	CHIP1342	STM/STY	STM0290	STY0320	ATGGATC TTATTCG ATGGATC	1
1236	CHIP4725	STM/STY	STM2426	STY2662	ATGCCTG TTAAGC GTGCCTG	1
1237	CHIP3128	STM specil	STM2584		ATGACAT TTAACGA TTGACAT,	1

1238	CHIP3090	STM/STY	STM2492	STY2730	ATGGTGA TTAGGCT ATGGTGA	1
1239	CHIP3100	STM/STY	STM2518	STY2763a	ATGGAAA TTATTGA ATGGAAA	1
1240	CHIP3045	STM/STY	STM2380	STY2611	ATGATCG TTATTGT ATGATCG	1
1241	CHIP3054	STM/STY	STM2400	STY2638	ATGATCT TTAACGC ATGATCT	1
1242	CHIP2872	STM/STY	STM1770	STY1282	ATGCCGT TTATTTT ATGCCGT	1
1243	CHIP3280	STM/STY	STM0635	STY0686	ATGCATA TTAAGCA ATGCATA	1
1244	CHIP3311	STM/STY	STM0688	STY0726	ATGAAAA TTATTGC ATGAAAA	1
1245	CHIP3035	STM/STY	STM2365	STY2596	ATGAAAA TTAAGCA ATGAAAA	1
1246	CHIP0514	STM specil	PSLT046		ATGGAAC TTATACT ATGGAAC	1
1247	CHIP0980	STM specil	PSLT025		ATGGATG TTATTCC ATGGATG	1
1248	CHIP1048	STM specil	PSLT001		ATGTTTA TTAGCCC GTGTTTA	1
1249	CHIP1119	STM specil	PSLT111		ATGATGA TTACGCG ATGACTG	1
1250	CHIP4324	STM specil	PSLT061		ATGAGAA TTAACGG ATGAGAA	1
1251	CHIP1059	STM specil	PSLT027		ATGAAGC TTACCAG ATGAAGC	1
1252	CHIP1049	STM specil	PSLT002		ATGAGCT TTAGTCA AGCTATT	1
1253	CHIP1052	STM specil	PSLT005		ATGCTCA TTAGTCA ATGCTCA	1
1254	CHIP1013	none	R460003		ATGATCC TTAACTC ATGATCC	0
1255	CHIP4780	STM/STY	STM0475	STY0519	ACTCACC CGAAGAA ACTCACC	1
1256	CHIP4784	STM/STY			TGTTTGT AATGCGA TGTTTGT	0
1257	CHIP4788	STM/STY			CGTGAAA CAGATCC CGTGAAA	0
1258	CHIP4792	STM/STY	STM0555	STY0602a	AACGAGA TGCAAGG AACGAGA	1
1259	CHIP4796	STM/STY			GATTTTG TTTAACG GATTTTG	0
1260	CHIP4800	STM/STY			GCTTGAC TTCACCT GCTTGAC	0
1261	CHIP5012	STY specific		STY1498	ATGATTA TTAGACG ATGATTA	0
1262	CHIP5028	STY specific		STY1604	ATGAATG TTAGTTG ATGAATG	0
1263	CHIP5044	STY specific		STY1620	ATGTCTG TTATTTAC ATGTCTG	0
1264	CHIP5059	STY specific		STY1637	ATGGCAA TTATGCC ATGGCAA	0
1265	CHIP5075	STY specific		STY2004	ATGAGAC TTATGGT ATGAGAC	0
1266	CHIP5096	STY specific		STY2035	ATGATTA TTAGATA ATGATTA	0
1267	CHIP5038	STY specific		STY1614	ATGGCCA TTATGTG ATGGCCA	0
1268	CHIP5053	STY specific		STY1630	ATGTTTG TTACACA ATGTTTG	0
1269	CHIP5069	STY specific		STY1886	ATGCTCG TTAACAG ATGCTCG	0
1270	CHIP4998	STY specific		STY1070	ATGGCTC TTATGCT ATGGCTC	0
1271	CHIP5106	STY specific		STY2046	ATGTTTC TTATCTC ATGTTTC	0
1272	CHIP5121	STY specific		STY2062	ATGAAAA TTAAGCA ATGAAAA	0
1273	CHIP5048	STY specific		STY1624	ATGATGA TTAGCTG GTGATGA	0
1274	CHIP5063	STM/STY		STY1665	ATGCTTA TTAATCC ATGCTTA	0
1275	CHIP5079	STY specific		STY2015	ATGAGCA TTAGAGT ATGAGCA	0
1276	CHIP5100	STY specific		STY2040	ATGACTT TTAGGCC ATGACTT	0
1277	CHIP5115	STY specific		STY2056	ATGTGCG TTATAAT ATGTGCG	0
1278	CHIP5131	STY specific		STY2072	ATGATTA TTAGATT ATGATTA	0
1279	CHIP5065	STM/STY		STY1742	ATGAATG TTACCTC ATGAATG	0
1280	CHIP5081	STY specific		STY2017	ATGCGAT TTATGCC ATGCGAT	0
1281	CHIP5094	STY specific		STY2033	ATGCCAA TTATAGC ATGCCAA	0
1282	CHIP5203	STY specific		STY3278	ATGATAA TTAGTGA ATGATAA	0
1283	CHIP5133	STY specific		STY2074	ATGAACG TTAGGAG ATGAACG	0
1284	CHIP5149	STY specific		STY2352	ATGGTTA TTATTTA TTGGTTA	0
1285	CHIP5358	STY specific		STY4599	ATGAATA TTATTGA ATGAATA	0
1286	CHIP5379	STM/STY			ATGCGAA TTAGTGG ATGCGAA	0
1287	CHIP5313	STY specific		STY4546	ATGAGTC TTAGTAC ATGAGTC	0
1288	CHIP5327	STY specific		STY4565	ATGGCTA TTAGCTG ATGGCTA	0
1289	CHIP5343	STY specific		STY4583	ATGTCAG TTACAAT ATGTCAG	0

1290	CHIP5359	STY specific		STY4600	ATGATGA TTAAAAAATGATGA	0
1291	CHIP5421	STY specific		STY4834	ATGGGGCTTACTGT ATGGGGC	0
1292	CHIP5437	STY specific		STY4922	ATGTCGA TTATTCACATGTCGA	0
1293	CHIP5295	STM/STY		STY4480	ATGATGC TTATTGTGTGATGC	0
1294	CHIP5311	STY specific		STY4543	ATGGCTG TTATTTTTGTGGCTG	0
1295	CHIP5407	STY specific		STY4756	ATGTTGA TTAGCGA ATGTTGA	0
1296	CHIP5422	STM/STY		STY4835	ATGTTCC TTAGTGA TTGTTCC	0
1297	CHIP2688	STM/STY	STM0172	STY0194	ATGACCA TTATGCG ATGACCA	1
1298	CHIP2720	STM/STY	STM0229	STY0252	ATGGCGCTTATTGT(ATGGCGC	1
1299	CHIP2736	STM/STY	STM1511	STY1550	ATGATCG TTAGCTAATGATCG	1
1300	CHIP0778	STM/STY	STM4292	STY4491	ATGAAGA TTAGCTT ATGAAGA	1
1301	CHIP0794	STM/STY	STM2396	STY2633	ATGTTGA TTAGAAT ATGTTGA	1
1302	CHIP2601	STM/STY	STM3872	STY3906	ATGTCTG TTACCCT ATGTCTG	1
1303	CHIP0788	STM/STY	STM3385	STY3565	ATGTTCC TTAGTTC ATGTTCC	1
1304	CHIP0804	STM/STY	STM2034	STY2239	ATGACGA TTAGGCC ATGACGA	1
1305	CHIP0820	STM/STY	STM2018	STY2221	ATGATTC TTATTTAATGATTC	1
1306	CHIP2635	STM/STY	STM0061	STY0070	ATGAAAG TTAGCCT ATGAAAG	1
1307	CHIP3235	STM/STY	STM3305	STY3484	ATGAATT TTAACGA ATGAATT	1
1308	CHIP3251	STM specil	STM3343		ATGCTGT TTATGCC ATGCTGT	1
1309	CHIP2653	STM/STY	STM0095	STY0110	ATGGGGA TTAAAAAATGGGGA	1
1310	CHIP2677	STM/STY	STM0152	STY0175	ATGTCAG TTACGCC ATGTCAG	1
1311	CHIP2693	STM specil	STM0177		ATGAAAC TTAGTTA ATGAAAC	1
1312	CHIP2709	STM/STY	STM0208	STY0230	ATGGCAT TTAGTGT ATGGCAT	1
1313	CHIP2725	STM/STY	STM0240	STY0265	ATGATTG TTAATCC ATGATTG	1
1314	CHIP2741	STM/STY	STM1524	STY1536	ATGACCA TTAGACG ATGACCA	1
1315	CHIP3287	STM/STY	STM0648	STY0699	ATGCAAG TTAGCCA ATGCAAG	1
1316	CHIP3303	STM specil	STM0672		ATGAATT TTAGTTC ATGAATT	1
1317	CHIP3327	STM/STY	STM0716	STY0756	ATGAAAA TTATACTGTGAAAA	1
1318	CHIP3720	STM/STY	STM4552	STY4905	ATGTTGC TTATCCC ATGTTGC	1
1319	CHIP4032	STM/STY	STM2715	STY4620	ATGAATC TTATACTATGAATC	1
1320	CHIP4056	STM specil	STM2749		ATGAAAA TTATGTCATGAAAA	1
1321	CHIP3722	STM/STY	STM4563	STY4914	ATGAAAA TTACGCC ATGAAAA	1
1322	CHIP3738	STM/STY	STM4593	STY4941	ATGCAAT TTAGTGG GTGCAAT	1
1323	CHIP3762	STM specil	STM0293		ATGTTAA TTAGTTC ATGTTAA	1
1324	CHIP3778	STM specil	STM0326		ATGCAGG TTACGAA ATGCAGG	1
1325	CHIP3794	STM specil	STM1053		ATGTGTG TTATTGG ATGTGTG	1
1326	CHIP1122	STM/STY	STM4330	STY4690	ATGGCAG TTACATC ATGGCAG	1
1327	CHIP3772	STM/STY	STM0312	STY0357	ATGCGTA TTATTTTATGCGTA	1
1328	CHIP3788	STM specil	STM1045		ATGCAGG TTAAGAC ATGCAGG	1
1329	CHIP3804	STM/STY	STM1079	STY1102	ATGATAG TTAGTTAATGATAG	1
1330	CHIP3828	STM/STY	STM1122	STY1157	ATGTCGC TTAACGC ATGTCGC	1
1331	CHIP3844	STM/STY	STM1157	STY1194	ATGAAAA TTAGTTC ATGAAAA	1
1332	CHIP3860	STM/STY	STM1205	STY1245	ATGGCAG TTACAAG GTGGCAG	1
1333	CHIP3806	STM/STY	STM1081	STY1104	ATGAAAA TTATCTTATGAAAA	1
1334	CHIP2382	STM/STY	STM3400	STY4397	ATGAACC TTAGGAT GTGAACC	1
1335	CHIP2398	STM/STY	STM3456	STY4342	ATGGCAA TTAGTCC ATGGCAA	1
1336	CHIP2414	STM/STY	STM3493	STY4303	ATGAAGT TTAGAAC GTGAAGT	1
1337	CHIP2430	STM specil	STM3518		ATGGCAA TTAGTCG ATGGCAA	1
1338	CHIP2446	STM/STY	STM3541	STY4270	ATGAGTA TTAGCTC GTGAGTA	1
1339	CHIP3488	STM/STY	STM0964	STY0962	ATGGCCA TTACGCC ATGGCCA	1
1340	CHIP4097	STM/STY	STM4014	STY3865	ATGGAGC TTATACA ATGGAGC	1
1341	CHIP4113	STM/STY	STM4075	STY3795	ATGTTGA TTATGCC ATGTTGA	1

1342	CHIP4137	STM specil	STM4115		ATGACAT TTAACCT(ATGACAT	1
1343	CHIP4153	STM/STY	STM2859	STY2981	ATGTCGT TTACGCT.ATGTCGT	1
1344	CHIP4169	STM/STY	STM2917	STY3042	ATGTTAA TTATACC ATGTTAA	1
1345	CHIP4131	STM/STY	STM4108	STY3759	ATGGATC TTATTCC(ATGGATC	1
1346	CHIP4147	STM/STY	STM2850	STY2972	ATGAGTG TTACGCC ATGAGTG	1
1347	CHIP4163	STM/STY	STM2908	STY3032	ATGAAAA TTAACCTG TTGAAAA	1
1348	CHIP4187	STM specil	STM2942		ATGAGTG TTAATCT ATGAGTG	1
1349	CHIP3059	STM/STY	STM2413	STY2652	ATGACGC TTATTTG(ATGACGC	1
1350	CHIP3083	STM/STY	STM2480	STY2718	ATGACGG TTACGTT GTGACGC	1
1351	CHIP3517	STM specil	STM1026		ATGTGTC TTAATTAC(ATGTGTC	0
1352	CHIP4118	STM/STY	STM4085	STY3785	ATGAGAC TTAGAGA ATGAGAC	1
1353	CHIP4134	STM specil	STM4112		ATGAAAG TTAATTC ATGAAAG	1
1354	CHIP3590	STM/STY	STM4287	STY4486	ATGCCAG TTACAAT(ATGCCAG	1
1355	CHIP3614	STM specil	STM4346		ATGAGTC TTACACA(ATGAGTC	1
1356	CHIP3062	STM/STY	STM2422	STY2658	ATGCCTC TTAGGCC ATGCCTC	1
1357	CHIP0217	STM/STY	STM1258	STY1862	ATGCTGA TTAGCAT ATGCTGA	1
1358	CHIP2316	STM/STY	STM1480	STY1588	ATGTCTG TTAAGC ATGTCTG	1
1359	CHIP0257	STM/STY	STM2514		ATGACGT TTAATCC ATGACGT	1
1360	CHIP0281	STM/STY	STM0022	STY0025	ATGAAAA TTATGAA(ATGAAAA	1
1361	CHIP3625	STM/STY	STM4373	STY4729	ATGATGC TTAACCA ATGATGC	1
1362	CHIP3641	STM/STY	STM4409	STY4768	ATGATTT TTATAAT GTGATTT	1
1363	CHIP3643	STM/STY	STM4416	STY4775	ATGCGCA TTAATAC(ATGCGCA	1
1364	CHIP2987	STM/STY	STM2274	STY2501	ATGAGTA TTAGGTT ATGAGTA	1
1365	CHIP3683	STM specil	STM4492		ATGCAAA TTAAGG TTGCAAA	1
1366	CHIP3699	STM/STY	STM4517	STY4874	ATGCAAC TTAATTC ATGCAAC	1
1367	CHIP2279	STM/STY	STM1133	STY1170	ATGATGA TTAGCCA ATGATGA	1
1368	CHIP2303	STM/STY	STM1334	STY1777	ATGAGTC TTAATGT GTGAGTC	1
1369	CHIP3029	STM/STY	STM2357	STY2587	ATGGATA TTATCCC ATGGATA	1
1370	CHIP0214	STM/STY	STM1255	STY1865	ATGATTA TTACCGA ATGATTA	1
1371	CHIP0230	STM specil	STM0198		ATGAGGC TTATTGG ATGAGGC	1
1372	CHIP2329	STM/STY	STM1153	STY1190	ATGACCA TTAACGC ATGACCA	1
1373	CHIP2345	STM/STY	STM1282	STY1835	ATGGCCG TTAAGCC ATGGCCG	1
1374	CHIP2361	STM/STY	STM1427	STY1695	ATGAGTT TTAGCGA ATGAGTT	1
1375	CHIP2331	STM/STY	STM1160	STY1198	ATGAAAT TTATTGG ATGAAAT	1
1376	CHIP2347	STM/STY	STM1294	STY1820	ATGGCGC TTAATCA ATGGCGC	1
1377	CHIP0288	STM/STY	STM3997	STY3883	ATGAAAA TTATTTT ATGAAAA	1
1378	CHIP3912	STM/STY	STM1311	STY1802	ATGAACA TTAATGC ATGAACA	1
1379	CHIP0513	STM specil	STM1868		ATGTATA TTATAAA(ATGTATA	0
1380	CHIP3960	STM/STY	STM1449	STY1673	ATGGCAA TTATTTCC(ATGGCAA	1
1381	CHIP3946	STM/STY	STM1373	STY1750	ATGACAT TTATCCC ATGACAT	1
1382	CHIP0547	STM/STY	STM1170	STY1209	ATGCAGG TTACGCC ATGCAGG	1
1383	CHIP0563	STM/STY	STM1416	STY1704	ATGGAAA TTAACCT ATGGAAA	1
1384	CHIP1414	STM/STY	STM3873	STY3905	ATGACCG TTAACCT ATGACCG	1
1385	CHIP1430	STM/STY	STM2646	STY2839	ATGATTA TTACAGG ATGATTA	1
1386	CHIP1358	STM/STY	STM0236	STY0261	ATGACCA TTAGGCA ATGACCA	1
1387	CHIP1456	STM/STY	STM0401	STY0439	ATGTTGA TTAACGA ATGTTGA	1
1388	CHIP1472	STM/STY	STM4189	STY4406	ATGTTAA TTAATAC GTGTTAA	1
1389	CHIP1488	STM/STY	STM4273	STY4471	ATGAAGA TTAATGC ATGAAGA	1
1390	CHIP3909	STM/STY	STM1306	STY1808	ATGACGC TTATCCA ATGACGC	1
1391	CHIP3925	STM/STY	STM1345	STY1765	ATGACCC TTAACCT ATGACCC	1
1392	CHIP3957	STM/STY	STM1439	STY1683	ATGGTTC TTACGGC ATGGTTC	1
1393	CHIP0552	STM specil	STM2770		ATGGAAT TTATTC ATGGAAT	1

1394	CHIP3999	STM/STY	STM2097	STY2307	ATGAAGA T TACTGG GTGAAGA	1
1395	CHIP1435	STM/STY	STM2571	STY2817	ATGAATC TTAGTGT ATGAATC	1
1396	CHIP1363	STM/STY	STM0205	STY0227	ATGCTCG TTAACGT ATGCTCG	1
1397	CHIP1379	STM/STY	STM0076	STY0086	ATGAACA TTATCGC ATGAACA	1
1398	CHIP1395	STM/STY	STM0147	STY0169	ATGACGC TTACTACT ATGACGC	1
1399	CHIP2053	STM/STY	STM3613	STY4190	ATGCAGG T TACTGT ATGCAGG	1
1400	CHIP2069	STM/STY	STM3523	STY4280	ATGAAAC TTAACAC ATGAAAC	1
1401	CHIP1510	STM/STY	STM2305	STY2535	ATGACAT TTAATTTT ATGACAT	1
1402	CHIP1534	STM/STY	STM2520	STY2765	ATGCAAT TTAACGC ATGCAAT	1
1403	CHIP1019	STM/STY	STM0412	STY0450	ATGCGGC T TACTGG ATGCGGC	0
1404	CHIP1590	STM/STY	STM0558	STY0606	ATGAAAA TTAACCA ATGAAAA	1
1405	CHIP2024	STM/STY	STM4577	STY4924	ATGGCTC T TACTCT ATGGCTC	1
1406	CHIP2040	STM/STY	STM3666	STY4132	ATGAACC TTAGAAA ATGAACC	1
1407	CHIP2056	STM/STY	STM3604	STY4199	ATGACGA TTAGTGA ATGACGA	1
1408	CHIP2072	STM/STY	STM3494	STY4302	ATGACCA TTAGGCA ATGACCA	1
1409	CHIP1513	STM/STY	STM2290	STY2520	ATGAGCA TTAATGA ATGAGCA	1
1410	CHIP1537	STM/STY	STM2497	STY2738	ATGACGC T TACTGA ATGACGC	1
1411	CHIP1523	STM/STY	STM2337	STY2567	ATGTCGA TTAGGCA ATGTCGA	1
1412	CHIP1000	STM/STY	STM1015	STY1023	ATGAAAA T TATTTT ATGAAAA	0
1413	CHIP1571	STM/STY	STM0532	STY0580	ATGAAAA T TACAGA ATGAAAA	1
1414	CHIP1995	STM/STY	STM4407	STY4766	ATGTTAA TTAGGCC ATGTTAA	1
1415	CHIP3159	STM specil	STM2616		ATGACCA T TACCAC ATGACCA	1
1416	CHIP3175	STM/STY	STM3179	STY3356	ATGAGTA TTAAGCA ATGAGTA	1
1417	CHIP0595	STM/STY	STM3484	STY4312	ATGAAAA T TATTTT ATGAAAA	1
1418	CHIP0707	STM/STY	STM2206	STY2442	ATGTTCC T TATGCG ATGTTCC	1
1419	CHIP0723	STM/STY	STM2278	STY2507	ATGGCAT TTAGAGC ATGGCAT	1
1420	CHIP0755	STM/STY	STM2456	STY2693	ATGCCTG T TACGCA ATGCCTG	1
1421	CHIP1806	STM/STY	STM4080	STY3790	ATGAACA T TATGCT ATGAACA	1
1422	CHIP1838	STM/STY	STM0695	STY0733	ATGGCCA TTAGACT ATGGCCA	1
1423	CHIP0742	STM/STY	STM1242	STY1882	ATGACTT T TACAGC ATGACTT	1
1424	CHIP0766	STM/STY	STM2886	STY3009	ATGGATT T TATTCC ATGGATT	1
1425	CHIP1825	STM/STY	STM3996	STY3884	ATGAACG TTAATAC ATGAACG	1
1426	CHIP1857	STM/STY	STM0853	STY0893	ATGGTCG TTAGACC ATGGTCG	1
1427	CHIP1889	STM/STY	STM3464	STY4333	ATGTCAG T TATTCC ATGTCAG	1
1428	CHIP0687	STM/STY	STM4187	STY4404	ATGGTTG TTAGCGA ATGGTTG	1
1429	CHIP1260	STM/STY	STM1676	STY1388	ATGGAAT TTAATCG GTGGAAT	1
1430	CHIP0457	STM/STY	STM3416	STY4382	ATGGCAA T TACTTG ATGGCAA	1
1431	CHIP0473	STM/STY	STM2184	STY2414	ATGTTAA T TAAAGC ATGTTAA	1
1432	CHIP0106	STM/STY	STM1731	STY1320	ATGTTTC T TACTTG ATGTTTC	1
1433	CHIP0130	STM/STY	STM4173	STY3712	ATGAGTT TTAATCC GTGAGTT	1
1434	CHIP4729	STM/STY	STM2505	STY2746	ATGCGCT TTAATGT TTGCGCT	0
1435	CHIP4216	STM/STY	STM3003	STY3144	ATGTGCT T TATACA TGCTCAC	1
1436	CHIP0396	STM/STY	STM2891		ATGTCAT T TATGTT ATGTCAT	0
1437	CHIP0412	STM/STY	STM2065	STY2271	ATGAGCA T TATGCC ATGAGCA	1
1438	CHIP1271	STM/STY	STM3363	STY3544	ATGAATG TTAATGC ATGAATG	1
1439	CHIP1295	STM/STY	STM0016	STY0016	ATGAATC TTAGGTC ATGAATC	1
1440	CHIP4676	STM/STY	STM0560	STY0609	ATGGAAT TTAATTG ATGGAAT	1
1441	CHIP1305	STM/STY	STM0047	STY0056	ATGAGTA T TATGCC ATGAGTA	1
1442	CHIP4686	STM/STY	STM0715	STY0755	ATGACGA TTAATTTT ATGACGA	1
1443	CHIP4702	STM/STY	STM1666	STY1398	ATGTCGC T TACGCA ATGTCGC	1
1444	CHIP0143	STM/STY	STM4018	STY3860	ATGAGTC T TAAACC ATGAGTC	1
1445	CHIP0175	STM/STY	STM2408	STY2649	ATGACTG T TATGAC ATGACTG	1

1446	CHIP0391	STM/STY	STM2189	STY2422	ATGGGCA TTAAGG ATGGGCA	1
1447	CHIP2308	STM/STY	STM1365	STY1758	ATGTTCC TTAATC TTCCACA	1
1448	CHIP1700	STM/STY	STM1763	STY1289	ATGAAAA TTATGCG ATGAAAA	1
1449	CHIP1716	STM/STY	STM1798	STY1926	ATGAGTG TTATTCT GTGAGTG	1
1450	CHIP1732	STM/STY	STM3020	STY3165	ATGCGTT TTATTTCT ATGCGTT	1
1451	CHIP1748	STM/STY	STM2962	STY3100	ATGAGTT TTATGAT ATGAGTT	1
1452	CHIP1764	STM/STY	STM3008	STY3151	ATGCACT TTACGGC ATGCACT	1
1453	CHIP0004	STM/STY	STM3984	STY3576	ATGGAAT TTACGCC ATGGAAT	1
1454	CHIP0523	STM/STY	STM3539	STY4271	ATGAAAA TTACGCC AAAAATG	1
1455	CHIP0967	STM/STY	STM0092	STY0107	ATGAAGA TTAGTTA ATGAAGA	1
1456	CHIP0060	STM/STY	STM3922	STY3633	ATGAAAC TTAGCGT ATGAAAC	1
1457	CHIP0076	STM/STY	STM3903	STY3654	ATGACGA TTATGAA ATGACGA	1
1458	CHIP1703	STM/STY	STM1752	STY1298	ATGGCTG TTACTTC ATGGCTG	1
1459	CHIP0094	STM/STY	STM4153	STY3732	ATGGTTT TTACTCG ATGGTTT	1
1460	CHIP1713	STM/STY	STM1808	STY1937	ATGTCCC TTAGGCT ATGTCCC	1
1461	CHIP0902	STM/STY	STM0103	STY0120	ATGGCAA TTAATGA ATGGCAA	1
1462	CHIP0926	STM/STY	STM1745	STY1305	ATGTTGA TTAATAG ATGTTGA	1
1463	CHIP0942	STM/STY	STM2166	STY2396	ATGAAAT TTACAGT ATGAAAT	1
1464	CHIP0007	STM/STY	STM3981		ATGCGTG TTACTCA GTGCGTG	1
1465	CHIP4456	STM/STY	STM0597	STY0641	ATGGCAA TTAATGA ATGGCAA	1
1466	CHIP2848	STM/STY	STM1710	STY1341	ATGCTTT TTAGCTT ATGCTTT	1
1467	CHIP2864	STM/STY	STM1755	STY1295	ATGTCTC TTAAGCT ATGTCTC	1
1468	CHIP2784	STM specil	STM1596		ATGCTGT TTAGAAA TTGCTGT	1
1469	CHIP2800	STM/STY	STM1622	STY1442	ATGGCCG TTAACGC ATGGCCG	1
1470	CHIP2824	STM/STY	STM1657	STY1408	ATGTTGA TTAGGCC ATGTTGA	1
1471	CHIP2834	STM/STY	STM1672	STY1392	ATGCTTC TTAGTCA ATGCTTC	1
1472	CHIP4395	STM/STY	STM0490	STY0534	ATGAAGC TTAACGC ATGAAGC	1
1473	CHIP1151	STM/STY	STM0622	STY0671	ATGATTT TTATTCT ATGATTT	1
1474	CHIP1175	STM/STY	STM3750	STY4043	ATGAAAA TTAGTTC ATGAAAA	1
1475	CHIP1191	STM/STY	STM1581	STY1484	ATGAAAC TTAATAA ATGAAAC	1
1476	CHIP2851	STM/STY	STM1716	STY1334	ATGGAAT TTACATC GTGGAAT	1
1477	CHIP1217	STM/STY	STM1607	STY1457	ATGCGTA TTATTTT ATGCGTA	1
1478	CHIP2765	STM/STY	STM1561	STY1502	ATGAAAA TTATTGT ATGAAAA	1
1479	CHIP2781	STM/STY	STM1593	STY1472	ATGGCAA TTAGGCA GTGGCAA	1
1480	CHIP2797	STM/STY	STM1619	STY1445	ATGGACA TTAACAA ATGGACA	1
1481	CHIP2925	STM/STY	STM1883	STY2089	ATGACGC TTAGCCT ATGACGC	1
1482	CHIP2845	STM/STY	STM1701	STY1351	ATGGAAC TTATTGT ATGGAAC	1
1483	CHIP2847	STM/STY	STM1708	STY1343	ATGTTGG TTAAGCT ATGTTGG	1
1484	CHIP4304	STM/STY	STM2677	STY2864	ATGTTTG TTATCTA ATGTTTG	1
1485	CHIP4232	STM/STY	STM3031	STY3179	ATGAACA TTAGAAC ATGAACA	1
1486	CHIP4248	STM specil	STM3082		ATGAAAA TTAATAA ATGAAAA	1
1487	CHIP4360	STM/STY	STM0433	STY0472	ATGAGCG TTATTCT ATGAGCG	1
1488	CHIP4376	STM/STY	STM0457	STY0499	ATGGCCC TTATTCT ATGGCCC	1
1489	CHIP2474	STM specil	STM3599		ATGTTTT TTAGGCC ATGTTTT	1
1490	CHIP4610	STM/STY	STM3050	STY3206	ATGCAGC TTAAGG ATGCAGC	1
1491	CHIP2514	STM/STY	STM3685	STY4111	ATGTCAT TTAAGCT ATGTCAT	1
1492	CHIP2546	STM/STY	STM3777	STY4007	ATGCGAA TTAGTTT ATGCGAA	1
1493	CHIP4203	STM/STY	STM2976	STY3116	ATGAAAA TTAACGT ATGAAAA	1
1494	CHIP4227	STM/STY	STM3025	STY3172	ATGACGC TTATTGT ATGACGC	1
1495	CHIP4277	STM/STY	STM3142	STY3313	ATGAATA TTATTGT ATGAATA	1
1496	CHIP2477	STM/STY	STM3603	STY4200	ATGCTCA TTAAGGC ATGCTCA	1
1497	CHIP4613	STM/STY	STM3104	STY3257	ATGGCTA TTATTCT ATGGCTA	1

1498	CHIP2517	STM/STY	STM3693	STY4103	ATGATTG TTATGAT GTGATTG	1
1499	CHIP2549	STM/STY	STM3780	STY4003	ATGCCTT TTAAGAG ATGCCTT	1
1500	CHIP4302	STM/STY	STM2668	STY2855	ATGACTA TTATCCC,ATGACTA	1
1501	CHIP1636	STM/STY	STM2160	STY2390	ATGGCGC TTAACCG,ATGGCGC	1
1502	CHIP1652	STM/STY	STM2082	STY2291	ATGGATA TTAATAC,ATGGATA	1
1503	CHIP1668	STM/STY	STM2114	STY2327	ATGCTGG TTATGTG,ATGCTGG	1
1504	CHIP4568	STM/STY	STM2170	STY2400	ATGGATA TTAACGG,ATGGATA	1
1505	CHIP1900	STM/STY	STM3404	STY4393	ATGTTCCG TTAATGC,ATGTTCCG	1
1506	CHIP2108	STM/STY	STM3607	STY4196	ATGATGG TTAATCT,ATGATGG	1
1507	CHIP1694	STM/STY	STM1811	STY1941	ATGGCGC TTATTCT,ATGGCGC	1
1508	CHIP2102	STM/STY	STM3646	STY4156	ATGAAGC TTATCCC,ATGAAGC	1
1509	CHIP2118	STM/STY	STM3549	STY4262	ATGAACA TTATTCT,ATGAACA	1
1510	CHIP2134	STM/STY	STM3326	STY3505	ATGAGCA TTAATTA,ATGAGCA	1
1511	CHIP1966	STM/STY	STM4480	STY4818	ATGCAGC TTACGAC,ATGCAGC	1
1512	CHIP1982	STM/STY	STM4322	STY4681	ATGCAAC TTAGGTG,GTGCAAC	1
1513	CHIP2136	STM/STY	STM3309	STY3488	ATGACGC TTACATA,ATGACGC	1
1514	CHIP2152	STM/STY	STM3244	STY3427	ATGCACA TTAAGCG,ATGCACA	1
1515	CHIP2168	STM/STY	STM3146	STY3317	ATGCGGA TTAGACA,ATGCGGA	1
1516	CHIP1609	STM/STY	STM2835	STY2956	ATGAATC,TTAGAAC,ATGAATC,	1
1517	CHIP4509	STM specil	STM2003		ATGTCAC TTATGGT,ATGTCAC	1
1518	CHIP4525	STM/STY	STM2195	STY2429	ATGGTTC TTACCAA,ATGGTTC	0
1519	CHIP4527	STM/STY	STM2198	STY2432	ATGAGTA TTATAAC,ATGAGTA	1
1520	CHIP4543	STM specil	STM2234		ATGAGGC TTATTTAT,ATGAGGC	1
1521	CHIP1683	STM/STY	STM2205	STY2441	ATGAGCA TTAGTTA,ATGAGCA	1
1522	CHIP1899	STM/STY	STM3403	STY4394	ATGGCTA TTATTCC,ATGGCTA	1
1523	CHIP1915	STM/STY	STM3434	STY4364	ATGGGTC TTATTTAC,ATGGGTC	1
1524	CHIP1931	STM/STY	STM3033	STY3182	ATGCTGA TTAGCAC,ATGCTGA	1
1525	CHIP0323	STM/STY	STM0874	STY0907	ATGAGTC TTAGCGC,ATGAGTC	1
1526	CHIP2230	STM/STY	STM3198	STY3377	ATGACCT TTAACA,ATGACCT	1
1527	CHIP2254	STM/STY	STM3091	STY3244	ATGCCTG TTAGTCG,ATGCCTG	1
1528	CHIP2270	STM/STY	STM1078	STY1101	ATGATGA TTATTTCC,ATGATGA	1
1529	CHIP3378	STM/STY	STM0804	STY0838	ATGTCGC TTAATCA,ATGTCGC	1
1530	CHIP3410	STM/STY	STM0850	STY0889	ATGATGC TTAATTA,ATGATGC	1
1531	CHIP0374	STM/STY	STM1091	STY1121	ATGCAA,TTAAGAT,ATGCAA,	1
1532	CHIP3341	STM/STY	STM0745	STY0791	ATGACTG TTACCCC,GTGACTG	1
1533	CHIP3373	STM/STY	STM0794	STY0827	ATGGCTC TTATAAG,ATGGCTC	1
1534	CHIP3405	STM/STY	STM0841	STY0880	ATGACGA TTAACA,ATGACGA	1
1535	CHIP2194	STM/STY	STM3331	STY3511	ATGAGCC TTAACT,ATGAGCC	1
1536	CHIP0327	STM/STY	STM3757	STY4030	ATGCCAA TTAGAAA,ATGCCAA	1
1537	CHIP4301	STM/STY	STM2665	STY2853	ATGACAA TTAATCT,ATGACAA	1
1538	CHIP1493	STM/STY	STM2387	STY2619	ATGCAAG TTAATCT,ATGCAAG	1
1539	CHIP1479	STM/STY	STM4240	STY4436	ATGATGA TTACCAG,ATGATGA	1
1540	CHIP0458	STM/STY	STM3415	STY4383	ATGCAGG TTAATCG,ATGCAGG	1
1541	CHIP0626	STM/STY	STM1692	STY1369	ATGCGCC TTATGGT,ATGCGCC	1
1542	CHIP1558	STM/STY	STM0462	STY0506	ATGAAGC TTACAGC,ATGAAGC	1
1543	CHIP1816	STM/STY	STM4042A	STY3832	ATGAACG TTAATTC,ATGAACG	1
1544	CHIP1875	STM/STY	STM0721	STY0761	ATGAAAA,TTAGCAA,ATGAAAA,	1
1545	CHIP0961	STM/STY	STM4141	STY3739a	ATGGAGA TTATCGA,ATGGAGA	1
1546	CHIP0993	STM specil	STM2439		ATGCCAG TTATTGT,ATGCCAG	1
1547	CHIP0996	STM specil	STM1011		ATGCTCC TTAAGCA,ATGCTCC	0
1548	CHIP3548	STM specil	STM4206		ATGATAA,TTATTTCC,ATGATAA,	1
1549	CHIP1212	STM/STY	STM2722		ATGAACA TTAAAAA,ATGAACA	1

1550	CHIP1134	STM/STY	STM1882	STY2088	ATGGCGC TTAGGCG ATGGCGC	1
1551	CHIP4030	STM/STY	STM2713		ATGAGGA TTATTCA (ATGAGGA	0
1552	CHIP4039	STM specil	STM2727		ATGAACT TTAATGT (ATGAACT	1
1553	CHIP4121	STM/STY	STM4088	STY3782	ATGTCTT TTAGACT ATGTCTT	1
1554	CHIP4179	STM/STY	STM2931	STY3056	ATGGGTA TTATCGA ATGGGTA	1
1555	CHIP3949	STM/STY	STM1376	STY1746	ATGAACC TTATTTA (ATGAACC	1
1556	CHIP3942	STM/STY	STM1367	STY1756	ATGATAT TTAATGC (GTGATAT	1
1557	CHIP3959	STM/STY	STM1447	STY1675	ATGCCTA TTAACGC ATGCCTA	1
1558	CHIP0265	STM/STY	STM1056	STY1077	ATGTTCTG TTATCTG ATGTTCTG	1
1559	CHIP0243	STM/STY	STM2464	STY2701	ATGGAGC TTATTTA (ATGGAGC	1
1560	CHIP1398	STM/STY	STM0160	STY0182	ATGGATT TTAGGCT ATGGATT	1
1561	CHIP4663	STM/STY	STM4191	STY4408	ATGGCTC TTATACC ATGGCTC	1
1562	CHIP2913	STM/STY	STM1856	STY1988	ATGGAAT TTAAGC (ATGGAAT	1
1563	CHIP2898	STM/STY	STM1833	STY1962	ATGACTA TTATATC (ATGACTA	1
1564	CHIP2922	STM/STY	STM1875	STY2081	ATGGCTT TTATTTA (ATGGCTT	1
1565	CHIP2917	STM/STY	STM1869	STY1043	ATGAATC TTAATGC (ATGAATC	1
1566	CHIP4710	STM/STY	STM1926	STY2135	ATGATTA TTATAAC (ATGATTA	1
1567	CHIP1056	STM specil	PSLT022		ATGTCAG TTAGGAC ATGTCAG	0
1568	CHIP1104	STM specil	PSLT095		ATGAAAC TTATTTA (ATGAAAC	1
1569	CHIP1073	STM specil	PSLT058		ATGTGGC TTAGGTG CTGTGGC	0
1570	CHIP1105	STM specil	PSLT096		ATGAAGA TTAAGC (ATGAAGA	1
1571	CHIP1050	STM specil	PSLT003		ATGATCC TTAGGCT TTGATCC	1
1572	CHIP1098	STM specil	PSLT089		ATGAGTA TTACGGC ATGAGTA	1
1573	CHIP0944	none	R460027		ATGAAAG TTATTCT (ATGAAAG	0
1574	CHIP0954	none	R460022		ATGGAGC TTACAGT (ATGGAGC	0
1575	CHIP4889	none	R460034		ATGCACT TTATGCT (ATGCACT	0
1576	CHIP4876	none	R460011		ATGTTCTG TTAAGC (ATGTTCTG	0
1577	CHIP4870	none	R460004		ATGAAAA TTAGCGA GTGAAAA	0
1578	CHIP4897	none	R460048		ATGTTTA TTAACGG ATGTTTA	0
1579	CHIP4801	STM/STY			TTTTTCC (GGGTATT TTTTTCC	0
1580	CHIP4805	STM specific			TTTACTT TCAACAAA TTTACTT	0
1581	CHIP4809	STM/STY			CAATTTT (AGGAACA CAATTTT	0
1582	CHIP4813	STM specific			ATGAAAG ACTTTAT (ATGAAAG	0
1583	CHIP4817	STM specil	STM2614		GCCAGCA GTTCCAG GCCAGCA	1
1584	CHIP4821	STM/STY			ACTAAAG TTCCGGT ACTAAAG	0
1585	CHIP5189	STY specific		STY3071	ATGACAC TTACCAT (ATGACAC	0
1586	CHIP5119	STY specific		STY2060	ATGGCAA TTACTGT (ATGGCAA	0
1587	CHIP5135	STY specific		STY2076	ATGAATC TTAGGCA ATGAATC	0
1588	CHIP5240	STM/STY		STY3677	ATGAAGA TTACGCT ATGAAGA	0
1589	CHIP5254	STY specific		STY3693	ATGCAGA TTATCTG (ATGCAGA	0
1590	CHIP5270	STY specific		STY3949	ATGAACC TTAAGC (TTGAACC	0
1591	CHIP5211	STY specific		STY3344	ATGGATT TTAGTCT ATGGATT	0
1592	CHIP5227	STY specific		STY3663	ATGTATG TTATCGT ATGTATG	0
1593	CHIP5241	STY specific		STY3679	ATGGCGA TTAGATA (GTGGCGA	0
1594	CHIP5256	STY specific			ATGGCTC TTACGCG ATGGCTC	0
1595	CHIP5272	STM/STY		STY4036	ATGTTTG TTACTTT (ATGTTTG	0
1596	CHIP5015	STM/STY		STY1555	ATGAAAA TTATTTA (ATGAAAA	0
1597	CHIP5221	STY specific		STY3645	ATGCTGG TTAGATT ATGCTGG	0
1598	CHIP5236	STY specific		STY3673	ATGACTA TTACTCA (ATGACTA	0
1599	CHIP5251	STY specific		STY3689	ATGGCAG TTATTTA (ATGGCAG	0
1600	CHIP5266	STY specific		STY3919	ATGAGTT TTAAGC (ATGAGTT	0
1601	CHIP4922	STY specific		STY0300	ATGCCAT TTATTTA (ATGCCAT	0

1602	CHIP4938	STY specific	STY0346	ATGTATA(TTAGCCG ATGTATA(	0
1603	CHIP5238	STM/STY	STY3675	ATGAACA(TAAAAAA(ATGAACA	0
1604	CHIP5171	STY specific	STY2882	ATGAATT(TTATTCC(GTGAATT	0
1605	CHIP5187	STY specific	STY3069	ATGCTGA(TTATTTG(ATGCTGA	0
1606	CHIP4924	STM/STY	STY0306	ATGATAA(TTAATTT(ATGATAA	0
1607	CHIP4940	STY specific	STY0348	ATGAGTA(TTAGGGC(ATGAGTA	0
1608	CHIP4956	STY specific	STY1016	ATGACAC(TTATCGC(ATGACAC	0
1609	CHIP5278	STM/STY		ATGATAA(TTACCGC(ATGATAA	0
1610	CHIP5291	STY specific	STY4412	ATGAATC(TTAGTCA(ATGAATC	0
1611	CHIP5314	STY specific	STY4547	ATGTTAA(TTAGCCG(ATGTTAA	0
1612	CHIP5411	STY specific	STY4823	ATGAGGA(TTATGAT(ATGAGGA	0
1613	CHIP5426	STM/STY	STY4843	ATGGCGT(TTATCCA(ATGGCGT	0
1614	CHIP5279	STM/STY	STY4143	ATGCAAA(TTAATTA(ATGCAAA	0
1615	CHIP5348	STY specific	STY4588	ATGAACG(TTAAGCA(ATGAACG	0
1616	CHIP5282	STY specific	STY4207	ATGTATA(TTAGAGC(ATGTATA	0
1617	CHIP5296	STM/STY	STY4512	ATGGGTC(TTAGTTA(TTGGGTC	0
1618	CHIP5393	STY specific	STY4667	ATGCCAG(TTATTTT(ATGCCAG	0
1619	CHIP5408	STM/STY	STY4810	ATGAGTT(TTAAGA(GTGAGTT	0
1620	CHIP5423	STY specific	STY4837	ATGTATA(TTACACC(ATGTATA	0
1621	CHIP3264	STM/STY STM3371	STY3551	ATGACAA(TTAGCCG(ATGACAA	1
1622	CHIP3296	STM specil STM0657		ATGGACA(TTATAAA(ATGGACA	1
1623	CHIP3312	STM/STY STM0691	STY0729	ATGGTTG(TTAAGCT(ATGGTTG	1
1624	CHIP2569	STM/STY STM3822	STY3956	ATGAAAA(TTAATCA(ATGAAAA	1
1625	CHIP0802	STM specil STM3171		ATGGACT(TTAGGAA(ATGGACT	1
1626	CHIP0818	STM/STY STM2020	STY2223	ATGCTTG(TTATGAC(ATGCTTG	1
1627	CHIP2579	STM/STY STM3834	STY3944	ATGAATT(TTACCGC(ATGAATT	1
1628	CHIP2595	STM/STY STM3857	STY3926	ATGAAAG(TTAATAC(ATGAAAG	1
1629	CHIP0828	STM/STY STM3787	STY3995	ATGCTGG(TTAAGCG(ATGCTGG	1
1630	CHIP2643	STM/STY STM0079	STY0089	ATGCAGC(TTAACGA(ATGCAGC	1
1631	CHIP2667	STM/STY STM0129	STY0149	ATGAATA(TTAGCCA(ATGAATA	1
1632	CHIP2683	STM/STY STM0163	STY0185	ATGGAGA(TTATGCC(GTGGAGA	1
1633	CHIP2661	STM/STY STM0120	STY0140	ATGATGG(TTATGCG(ATGATGG	1
1634	CHIP3253	STM/STY STM3345	STY3525	ATGAAAA(TTAGATG(ATGAAAA	1
1635	CHIP3269	STM/STY STM3380	STY3560	ATGTTGG(TTAATTT(ATGTTGG	1
1636	CHIP3285	STM/STY STM0644	STY0695	ATGGCGT(TTAATCA(ATGGCGT	1
1637	CHIP3301	STM/STY STM0665	STY0710	ATGCAAT(TTAGTTA(ATGCAAT	1
1638	CHIP3317	STM/STY STM0698	STY0736	ATGGCAA(TTAGGCG(ATGGCAA	1
1639	CHIP2719	STM/STY STM0227	STY0250	ATGACTA(TTAGGCC(TTGACTA	1
1640	CHIP2735	STM/STY STM1509	STY1552	ATGATGA(TTAGTTC(ATGATGA	1
1641	CHIP4000	STM/STY STM2098	STY2308	ATGATGA(TTATTCA(ATGATGA	1
1642	CHIP4016	STM/STY STM2125	STY2338	ATGTTTA(TTAGCGG(GTGTTTA	1
1643	CHIP3744	STM/STY STM0255	STY0276	ATGACTA(TTAATCC(ATGACTA	1
1644	CHIP3768	STM/STY STM0300	STY0335	ATGGCGC(TTATTTA(ATGGCGC	1
1645	CHIP4018	STM/STY STM2129	STY2342	ATGACAG(TTACAGG(ATGACAG	1
1646	CHIP4034	STM/STY STM2719	STY4624	ATGAGCC(TTAGCGG(ATGAGCC	1
1647	CHIP4058	STM specil STM2751		ATGATGA(TTATGGC(ATGATGA	1
1648	CHIP4074	STM specil STM2767		ATGTCCA(TTATAGT(ATGTCCA	1
1649	CHIP4090	STM/STY STM2795	STY2915	ATGGGAC(TTATTCT(ATGGGAC	1
1650	CHIP3818	STM/STY STM1099	STY1131	ATGAAAC(TTATTTA(ATGAAAC	1
1651	CHIP4068	STM specil STM2761		ATGAAAA(TTATTTA(ATGAAAA	1
1652	CHIP4084	STM/STY STM2786		ATGAAAA(TTATTTA(ATGAAAA	1
1653	CHIP3812	STM/STY STM1089		ATGACTT(TTAACAT(TTGACTT	1

1654	CHIP2388	STM/STY	STM3419	STY4379	ATGAAAG TTAGCCT ATGAAAG	1
1655	CHIP2404	STM/STY	STM3466	STY4331	ATGGTGC TTAACGG ATGGTGC	1
1656	CHIP2420	STM/STY	STM3499	STY4297	ATGGAAA TTAAGCG ATGGAAA	1
1657	CHIP3814	STM/STY	STM1094	STY1126	ATGAAAA TTATGGC ATGAAAA	1
1658	CHIP3830	STM/STY	STM1127	STY1163	ATGGAGC TTATTTTC ATGGAGC	1
1659	CHIP3846	STM/STY	STM1161	STY1199	ATGGAAA TTAATGG ATGGAAA	1
1660	CHIP3862	STM/STY	STM1207	STY1247	ATGACAA TTATTGT ATGACAA	1
1661	CHIP3878	STM/STY	STM1239	STY1893	ATGCTCA TTAATAT ATGCTCA	1
1662	CHIP3894	STM/STY	STM1280	STY1838	ATGTTTG TTAGTGG ATGTTTG	1
1663	CHIP3496	STM/STY	STM0980	STY0980	ATGACGG TTAAGCG ATGACGG	1
1664	CHIP3529	STM specil	STM1038		ATGACAG TTATGCC ATGACAG	1
1665	CHIP3553	STM specil	STM4211		ATGGCCA TTATGCG TTGGCCA	1
1666	CHIP3569	STM/STY	STM4245	STY4441	ATGGCAA TTACGGA ATGGCAA	1
1667	CHIP3585	STM/STY	STM4282	STY4481	ATGAGCC TTATTTCT ATGAGCC	1
1668	CHIP4177	STM/STY	STM2928	STY3053	ATGACAG TTAATCA ATGACAG	1
1669	CHIP3563	STM/STY	STM4223	STY4419	ATGGTTA TTATGAT GTGGTTA	1
1670	CHIP3579	STM/STY	STM4270	STY4468	ATGGATA TTACGGT ATGGATA	1
1671	CHIP3595	STM/STY	STM4306	STY4506	ATGAAAC TTATGCA ATGAAAC	1
1672	CHIP3043	STM/STY	STM2378	STY2609	ATGAAAC TTACAAC ATGAAAC	1
1673	CHIP3067	STM/STY	STM2435	STY2672	ATGGGAC TTATCGC ATGGGAC	1
1674	CHIP3467	STM specil	STM0924		ATGAACA TTATTTTA ATGAACA	1
1675	CHIP4102	STM/STY	STM4034	STY3843	ATGAGTA TTATTCC ATGAGTA	1
1676	CHIP3550	STM specil	STM4208		ATGGCTG TTAATGT ATGGCTG	1
1677	CHIP3566	STM/STY	STM4235	STY4431	ATGTCCG TTAATGT ATGTCCG	1
1678	CHIP4166	STM/STY	STM2912	STY3037	ATGCTCA TTACGAT ATGCTCA	1
1679	CHIP4190	STM/STY	STM2950	STY3078	ATGGCGT TTAATGT ATGGCGT	1
1680	CHIP3446	STM specil	STM0902		ATGCGTA TTATTTCT ATGCGTA	1
1681	CHIP2300	STM/STY	STM1315	STY1798	ATGATGC TTAATGT ATGATGC	1
1682	CHIP0241	STM/STY	STM2466	STY2702	ATGATCA TTATTTCA ATGATCA	1
1683	CHIP2340	STM/STY	STM1232	STY1272	ATGGAAT TTATTTTA ATGGAAT	1
1684	CHIP2364	STM/STY	STM1432	STY1690	ATGAATC TTAGCGA ATGAATC	1
1685	CHIP2953	STM/STY	STM1967	STY2175	ATGATGA TTATTTTA GTGATGA	1
1686	CHIP2977	STM/STY	STM2256	STY2482	ATGAAAA TTATTTTC ATGAAAA	1
1687	CHIP3651	STM specil	STM4424		ATGGGAC TTAAGA GTGGGAC	1
1688	CHIP3667	STM/STY	STM4447	STY4786	ATGAAAC TTACACC ATGAAAC	1
1689	CHIP3011	STM/STY	STM2321	STY2551	ATGACCT TTACGGT ATGACCT	1
1690	CHIP3027	STM/STY	STM2348	STY2578	ATGAGTA TTAGCCT ATGAGTA	1
1691	CHIP0204	STM/STY	STM1955	STY2163	ATGACGG TTAATAT ATGACGG	1
1692	CHIP0228	STM specil	STM0196		ATGGCTC TTAATGT ATGGCTC	1
1693	CHIP0198	STM/STY	STM1927	STY2136	ATGAGCT TTAGTCG ATGAGCT	1
1694	CHIP2297	STM/STY	STM1307	STY1807	ATGGATA TTAGGGC ATGGATA	1
1695	CHIP2313	STM/STY	STM1448	STY1674	ATGTCTG TTAGGGC ATGTCTG	1
1696	CHIP0254	STM/STY	STM4064	STY3807	ATGAAAA TTAGCGG ATGAAAA	1
1697	CHIP0270	STM/STY	STM2863	STY2985	ATGAACT TTAAGAA ATGAACT	1
1698	CHIP2369	STM/STY	STM1452	STY1670	ATGTCTA TTAAACT GTGTCTA	1
1699	CHIP0256	STM/STY	STM2513	STY2755	ATGTCGT TTACCAG ATGTCGT	1
1700	CHIP2355	STM/STY	STM1346	STY1764	ATGTCGC TTATTTG ATGTCGC	1
1701	CHIP2371	STM/STY	STM1454	STY1668	ATGAGCC TTAGACT ATGAGCC	1
1702	CHIP0489	STM/STY	STM1430	STY1692	ATGGCAA TTAACGC ATGGCAA	1
1703	CHIP3944	STM/STY	STM1371	STY1752	ATGTTAA TTACTGC ATGTTAA	1
1704	CHIP0537	STM/STY	STM2869	STY2990	ATGATAA TTACCTT ATGATAA	0
1705	CHIP3954	STM/STY	STM1434	STY1688	ATGTCCG TTATTTG ATGTCCG	1

1706	CHIP3978	STM/STY	STM1482	STY1585	ATGTTTT/TTAAATT(ATGTTTT/	1
1707	CHIP3994	STM specil	STM2088		ATGAAAG TTATCCC GTGAAAG	1
1708	CHIP1326	STM/STY	STM3800	STY3979	ATGACTG TTACACC ATGACTG	1
1709	CHIP1438	STM/STY	STM2647	STY2840	ATGGCGA TTATTCA(ATGGCGA	1
1710	CHIP1454	STM/STY	STM0397	STY0432	ATGGCGA TTA AAAAG(ATGGCGA	1
1711	CHIP1368	STM/STY	STM0245	STY0272	ATGGCGT TTACCAG ATGGCGT	1
1712	CHIP1384	STM/STY	STM0100	STY0117	ATGAATG TTA AAAA(ATGAATG	1
1713	CHIP1400	STM/STY	STM0070	STY0080	ATGAGTG TTAACGA ATGAGTG	1
1714	CHIP0486	STM/STY	STM1950	STY2158	ATGCAGG TTATATC/ATGCAGG	1
1715	CHIP0502	STM/STY	STM1683	STY1378	ATGCGTC TTA CTCT ATGCGTC	1
1716	CHIP0542	STM/STY	STM3563	STY4249	ATGTCCG TTATACTIATGTCCG	1
1717	CHIP3983	STM/STY	STM1490	STY1574	ATGCATC TTAATGC ATGCATC	1
1718	CHIP1323	STM/STY	STM3793	STY3989	ATGGATA TTATTCCG ATGGATA	1
1719	CHIP1443	STM/STY	STM0357	STY0388	ATGTTGA TTAATAAC ATGTTGA	1
1720	CHIP1459	STM/STY	STM0416	STY0455	ATGCAGC TTATGCG ATGCAGC	1
1721	CHIP1475	STM/STY	STM4233	STY4429	ATGTCAC TTAGTAC ATGTCAC	1
1722	CHIP1403	STM/STY	STM0097	STY0112	ATGGCGC TTA AAAAT/GTGGCGC	1
1723	CHIP3201	STM/STY	STM3239	STY3421	ATGGAAT TTAAGAG ATGGAAT	1
1724	CHIP2077	STM/STY	STM3481	STY4315	ATGACTA TTACGGT ATGACTA	1
1725	CHIP0971	STM/STY	STM0345	STY0378	ATGCATT TTA CTGC ATGCATT	1
1726	CHIP1542	STM/STY	STM2442	STY2679	ATGGCGC TTAATGC ATGGCGC	1
1727	CHIP1566	STM/STY	STM0507	STY0553	ATGCCAG TTATGCC ATGCCAG	1
1728	CHIP1598	STM/STY	STM0605	STY0649	ATGTCGG TTATTTCT(ATGTCGG	1
1729	CHIP3172	STM/STY	STM2651	STY2844	ATGAGCC TTACGAT ATGAGCC	1
1730	CHIP3188	STM/STY	STM3204	STY3383	ATGAAGA TTAGCTG GTGAAGA	1
1731	CHIP3204	STM/STY	STM3248	STY3430	ATGACGA TTAGCGA ATGACGA	1
1732	CHIP3220	STM/STY	STM3276	STY3459	ATGACTG TTAGCCC ATGACTG	1
1733	CHIP0974	STM specil	STM1043		ATGAAAA TTAGGTTI ATGAAAA	1
1734	CHIP0998	STM/STY	STM1013	STY1021	ATGGCTT TTAGTCC ATGGCTT	0
1735	CHIP1531	STM/STY	STM2529	STY2774	ATGAGTC TTATGCA ATGAGTC	1
1736	CHIP1547	STM/STY	STM2547	STY2793	ATGACCC TTATTTAC ATGACCC	1
1737	CHIP1587	STM/STY	STM0533	STY0581	ATGAAGC TTATTTA ATGAAGC	1
1738	CHIP3143	STM specil	STM2599		ATGTTTG TTAAGCC GTGTTTG	1
1739	CHIP2019	STM/STY	STM4551	STY4904	ATGACAA TTATAGG ATGACAA	1
1740	CHIP2035	STM/STY	STM3707	STY4088	ATGAAAA TTAAGAC ATGAAAA	1
1741	CHIP0691	STM/STY	STM2353	STY2583	ATGTTGT TTACAAA ATGTTGT	1
1742	CHIP0619	STM/STY	STM0012	STY0012	ATGGGTA TTATTTTI ATGGGTA	1
1743	CHIP0635	STM/STY	STM1723	STY1328	ATGCAAA TTAGAAG ATGCAAA	1
1744	CHIP0667	STM/STY	STM2809	STY2934	ATGGCAA TTAGCCA ATGGCAA	1
1745	CHIP1814	STM/STY	STM4051	STY3821	ATGGATT TTAGAAT(ATGGATT	1
1746	CHIP1846	STM/STY	STM0646	STY0697	ATGATCA TTA CCA ATGATCA	1
1747	CHIP0750	STM/STY	STM2462	STY2699	ATGGCGC TTAGCTT(ATGGCGC	1
1748	CHIP1801	STM/STY	STM4125	STY3749	ATGAATA TTA AAC(ATGAATA	1
1749	CHIP1833	STM/STY	STM0779	STY0812	ATGCAGG TTAGCAC ATGCAGG	1
1750	CHIP1865	STM/STY	STM0770	STY0802	ATGACCT TTAGAGA ATGACCT	1
1751	CHIP0583	STM/STY	STM2806	STY2931	ATGAGCC TTAGCG ATGAGCC	1
1752	CHIP0703	STM/STY	STM1339	STY1771	ATGGCGC TTA CTCT ATGGCGC	1
1753	CHIP1276	STM/STY	STM3379	STY3559	ATGGATA TTA CTGC ATGGATA	1
1754	CHIP1292	STM/STY	STM0053	STY0062	ATGCAAG TTATTTI ATGCAAG	1
1755	CHIP1308	STM/STY	STM0036	STY0043	ATGATGT TTAACA ATGATGT	1
1756	CHIP4689	STM/STY	STM1245	STY1880	ATGGAAC TTAACAC ATGGAAC	1
1757	CHIP4713	STM/STY	STM2010	STY2212	ATGACAG TTATATG/ATGACAG	1

1758	CHIP0154	STM/STY	STM3868	STY3910	ATGTCTG TTAAGAC ATGTCTG	1
1759	CHIP0188	STM/STY	STM2049	STY2254	ATGCATC TTAACAC ATGCATC	1
1760	CHIP1231	STM/STY	STM4307	STY4508	ATGCATG TTACATT ATGCATG	1
1761	CHIP1247	STM/STY	STM1909	STY2117	ATGAATA TTACATG GTGAATA	1
1762	CHIP1279	STM/STY	STM3367	STY3547	ATGGAAC TTATTTT ATGGAAC	1
1763	CHIP0468	STM/STY	STM3718	STY4077	ATGAGCA TTATTCA ATGAGCA	1
1764	CHIP0101	STM/STY	STM4329	STY4689	ATGAGTA TTACGCT ATGAGTA	1
1765	CHIP0478	STM/STY	STM1141	STY1178	ATGAAAC TTAGAAT ATGAAAC	1
1766	CHIP0111	STM/STY	STM4025	STY3853	ATGAGTC TTACGCT ATGAGTC	1
1767	CHIP0127	STM/STY	STM4170	STY3715	ATGAACA TTAAGCA ATGAACA	1
1768	CHIP4726	STM/STY	STM2434	STY2671	ATGAAGA TTACAAC ATGAAGA	1
1769	CHIP0183	STM/STY	STM2044	STY2249	ATGGACA TTATACT ATGGACA	1
1770	CHIP1226	STM/STY	STM4296	STY4495	ATGATGA TTAGGCT ATGATGA	1
1771	CHIP0081	STM/STY	STM3898	STY3707	ATGGCGC TTAATCA ATGGCGC	1
1772	CHIP0873	STM/STY	STM1961	STY2169	ATGTACA TTAACGA ATGTACA	1
1773	CHIP0889	STM/STY	STM1713	STY1337	ATGAAAT TTAATCA ATGAAAT	1
1774	CHIP0905	STM/STY	STM4247	STY4443	ATGCAAG TTAATCA ATGCAAG	1
1775	CHIP0921	STM/STY	STM3321	STY3500	ATGCAGC TTAGTGT ATGCAGC	1
1776	CHIP0937	STM/STY	STM0429	STY0468	ATGAAAC TTAATCA ATGAAAC	1
1777	CHIP0012	STM/STY	STM3976	STY3583	ATGTTTG TTAGAAT ATGTTTG	1
1778	CHIP0028	STM/STY	STM3959	STY3600	ATGATGA TTAGCGC ATGATGA	1
1779	CHIP0044	STM/STY	STM3942	STY3617	ATGTTTT TTACCA ATGTTTT	1
1780	CHIP1958	STM/STY	STM4443	STY4782	ATGTTAA TTATTAT TTAATCC	1
1781	CHIP2611	STM/STY	STM0006	STY0006	ATGTTAA TTATCCC TTAACGA	1
1782	CHIP0876	STM/STY	STM1182	STY1221	ATGATCG TTAAGAG ATGATCG	1
1783	CHIP0870	STM/STY	STM1969	STY2177	ATGAGTG TTAATCA ATGAGTG	1
1784	CHIP0886	STM/STY	STM2948	STY3076	ATGACGA TTAGTAG ATGACGA	1
1785	CHIP1737	STM/STY	STM3000	STY3138	ATGAAAA TTATTGA ATGAAAA	1
1786	CHIP1761	STM/STY	STM3022	STY3167	ATGTCTA TTAGCCG ATGTCTA	1
1787	CHIP1777	STM/STY	STM4089	STY3781	ATGAAAT TTAATCA ATGAAAT	1
1788	CHIP0015	STM/STY	STM3972	STY3587	ATGACGC TTAACGA ATGACGC	1
1789	CHIP1196	STM/STY	STM1588	STY1477	ATGCCGC TTACATG ATGCCGC	1
1790	CHIP2752	STM/STY	STM1544	STY1518	ATGTTTA TTAATCG ATGTTTA	1
1791	CHIP2768	STM/STY	STM1566	STY1494	ATGGAAA TTAATG ATGGAAA	1
1792	CHIP2888	STM/STY	STM1812	STY1942	ATGTATC TTACAGA ATGTATC	1
1793	CHIP2904	STM/STY	STM1843	STY1974	ATGGAAA TTACGCC ATGGAAA	1
1794	CHIP2928	STM/STY	STM1887	STY2095	ATGAATA TTAGCGG ATGAATA	1
1795	CHIP2938	STM/STY	STM1902	STY2110	ATGCTGA TTATAAG ATGCTGA	1
1796	CHIP4403	STM/STY	STM0506	STY0552	ATGCTCA TTAGGAG ATGCTCA	1
1797	CHIP4419	STM/STY	STM0530	STY0578	ATGTTTA TTAACCT ATGTTTA	1
1798	CHIP4443	STM/STY	STM0577		ATGAGAC TTAATGC ATGAGAC	1
1799	CHIP1199	STM/STY	STM1642	STY1427	ATGAGCA TTAAGCG ATGAGCA	1
1800	CHIP2755	STM/STY	STM1548	STY1513	ATGACTA TTATCCC ATGACTA	1
1801	CHIP2853	STM/STY	STM1720	STY1330	ATGAGCC TTATAAG ATGAGCC	1
1802	CHIP2869	STM/STY	STM1766	STY1286	ATGTTTA TTATTCA ATGTTTA	1
1803	CHIP2885	STM/STY	STM1805	STY1934	ATGGTCA TTATCGT ATGGTCA	1
1804	CHIP2909	STM/STY	STM1850	STY1981	ATGGGGC TTAACCA ATGGGGC	1
1805	CHIP2829	STM/STY	STM1665	STY1399	ATGTCTT TTAACA ATGTCTT	1
1806	CHIP4390	STM/STY	STM0481	STY0525	ATGCTGT TTAGCGG ATGCTGT	1
1807	CHIP4288	STM/STY	STM3166	STY3340	ATGCATA TTAATAC ATGCATA	1
1808	CHIP4312	STM/STY	STM2690	STY2876	ATGGGAA TTATGGC ATGGGAA	1
1809	CHIP4328	STM/STY	STM4530	STY4888	ATGAAGA TTAATTC ATGAAGA	1

1810	CHIP4344	STM/STY	STM0392	STY0425	ATGCTGT TTAGCGC ATGCTGT	1
1811	CHIP4272	STM/STY	STM3126	STY3295	ATGTTTA TTAACC ATGTTTA	1
1812	CHIP4576	STM/STY	STM2567	STY2813	ATGAAAA TTATTTT TTGAAAA	1
1813	CHIP4594	STM/STY	STM2784	STY2903	ATGTACG TTAGCTC ATGTACG	1
1814	CHIP4618	STM/STY	STM3163	STY3335	ATGAATC TTAGCTC ATGAATC	1
1815	CHIP4634	STM specil	STM0840		ATGAAAA TTAAGT CTGAAAA	1
1816	CHIP2554	STM/STY	STM3803	STY3976	ATGACAG TTAACGC ATGACAG	1
1817	CHIP4299	STM/STY	STM2663	STY2852	ATGACGC TTAGGAT ATGACGC	1
1818	CHIP4323	STM/STY	STM2706	STY4611	ATGGCAT TTATGCC GTGGCAT	0
1819	CHIP4581	STM/STY	STM2814	STY2940	ATGAGCG TTAACCC ATGAGCG	1
1820	CHIP4597	STM/STY	STM2804	STY2928	ATGACAA TTACATT ATGACAA	1
1821	CHIP2501	STM/STY	STM3663	STY4135	ATGATAT TTACATA ATGATAT	1
1822	CHIP2525	STM/STY	STM3724	STY4070	ATGCTCG TTAATGC ATGCTCG	1
1823	CHIP4198	STM/STY	STM2971	STY3110	ATGATTA TTAATCG ATGATTA	1
1824	CHIP4214	STM/STY	STM2997	STY3135	ATGTCGC TTAACGA ATGTCGC	1
1825	CHIP4520	STM/STY	STM2187	STY2418	ATGTTAA TTACAGT ATGTTAA	1
1826	CHIP4536	STM/STY	STM2223	STY2460	ATGATTT TTAACCA ATGATTT	1
1827	CHIP4552	STM/STY	STM2246	STY2472	ATGCCTG TTAGTGC ATGCCTG	1
1828	CHIP1692	STM/STY	STM1820	STY1950	ATGCGAA TTATTCT ATGCGAA	1
1829	CHIP1908	STM/STY	STM3426	STY4372	ATGAGCA TTAGGCT ATGAGCA	1
1830	CHIP1924	STM/STY	STM0944	STY0942	ATGGGTA TTAGGCT ATGGGTA	1
1831	CHIP1894	STM/STY	STM0935	STY0931	ATGAAAC TTACCTT ATGAAAC	1
1832	CHIP1918	STM/STY	STM3437	STY4361	ATGGCAG TTATTTG ATGGCAG	1
1833	CHIP1934	STM/STY	STM4345	STY4705	ATGACCC TTAGTCC ATGACCC	1
1834	CHIP1950	STM/STY	STM4391	STY4747	ATGCGTC TTAGTCT ATGCGTC	1
1835	CHIP2158	STM/STY	STM3201	STY3380	ATGACGC TTAACGC ATGACGC	1
1836	CHIP2174	STM/STY	STM3131	STY3300	ATGGATG TTATTTT ATGGATG	1
1837	CHIP1952	STM/STY	STM4395	STY4751	ATGGATA TTACCGC ATGGATA	1
1838	CHIP1968	STM/STY	STM4510	STY4866	ATGAAAC TTAGGCG ATGAAAC	1
1839	CHIP1984	STM/STY	STM4325	STY4684	ATGATAG TTACAGC ATGATAG	1
1840	CHIP4493	STM/STY	STM0375	STY0407	ATGCTGT TTAGGAT ATGCTGT	1
1841	CHIP1633	STM/STY	STM2144	STY2373	ATGAACG TTATACG ATGAACG	1
1842	CHIP1649	STM/STY	STM2219	STY2455	ATGACAT TTAGCTT ATGACAT	1
1843	CHIP1651	STM/STY	STM2227	STY2465	ATGCCAC TTAGTGC ATGCCAC	1
1844	CHIP1667	STM/STY	STM2111	STY2323	ATGTTTT TTAGACT ATGTTTT	1
1845	CHIP4567	STM/STY	STM2169	STY2399	ATGAACC TTAGAAC ATGAACC	1
1846	CHIP2091	STM/STY	STM3687	STY4109	ATGACGC TTAGCTT ATGACGC	1
1847	CHIP2107	STM/STY	STM3608	STY4195	ATGACGC TTAGCGT ATGACGC	1
1848	CHIP2123	STM/STY	STM3511	STY4285	ATGATCC TTAGTAG ATGATCC	1
1849	CHIP2214	STM/STY	STM3236	STY3416	ATGATTA TTACACC ATGATTA	1
1850	CHIP0347	STM/STY	STM1889	STY2097	ATGGAAA TTATTTG ATGGAAA	1
1851	CHIP0371	STM/STY	STM1409	STY1711	ATGAAGG TTA AAAAC ATGAAGG	1
1852	CHIP3330	STM/STY	STM0720	STY0760	ATGATGA TTAATGA TTGATGA	1
1853	CHIP3386	STM/STY	STM0814	STY0849	ATGAAGT TTAGCGG ATGAAGT	1
1854	CHIP3418	STM specil	STM0859		ATGCACT TTAGTCA ATGCACT	1
1855	CHIP2265	STM/STY	STM1062	STY1083	ATGTCAT TTATGCC ATGTCAT	1
1856	CHIP3349	STM specil	STM0761		ATGATGG TTATTTG ATGATGG	1
1857	CHIP3381	STM/STY	STM0807	STY0841	ATGGACA TTAGCGG ATGGACA	1
1858	CHIP3413	STM specil	STM0854		ATGCAAA TTAATG ATGCAAA	1
1859	CHIP0311	STM/STY	STM1383	STY1738	ATGGCTA TTATATA ATGGCTA	1
1860	CHIP2218	STM/STY	STM3230	STY3410	ATGGCGC TTAGCAG ATGGCGC	1
1861	CHIP3630	STM/STY	STM4382	STY4738	ATGAGTA TTACAGG ATGAGTA	1

1862	CHIP0272	STM specil	STM1867		ATGAAAC TTAATAAC ATGAAAC	0
1863	CHIP0357	STM/STY	STM1396	STY1724	ATGACAA TTAAGCTT ATGACAA	1
1864	CHIP1449	STM/STY	STM0379	STY0411	ATGCGTT TTATCGG ATGCGTT	1
1865	CHIP1491	STM/STY	STM2390	STY2622	ATGAGTA TTAACGC ATGAGTA	1
1866	CHIP0670	STM/STY	STM3471	STY4325	ATGAAGA TTATCGC GTGAAGA	1
1867	CHIP0816	STM/STY	STM2022	STY2225	ATGAAAA TTAAGCC ATGAAAA	1
1868	CHIP0935	STM/STY	STM0431	STY0470	ATGACTT TTATTTT ATGACTT	1
1869	CHIP1951	STM/STY	STM4393	STY4749	ATGGCAC TTAAGTA ATGGCAC	1
1870	CHIP1913	STM/STY	STM3432	STY4366	ATGAAAG TTACGCA ATGAAAG	1
1871	CHIP1961	STM/STY	STM4449	STY4788	ATGGCCA TTATAAG ATGGCCA	1
1872	CHIP4481	STM/STY	STM0349	STY0383	ATGAAAA TTAACGA ATGAAAA	1
1873	CHIP2251	STM/STY	STM3095	STY3248	ATGATCA TTAAGTC ATGATCA	1
1874	CHIP2332	STM/STY	STM1162	STY1200	ATGCGTA TTATTTCA ATGCGTA	1
1875	CHIP4660	STM/STY	STM2906	STY3029	ATGGAAA TTATACG CTGGAAA	1
1876	CHIP4645	STM/STY	STM3806		ATGATCT TTAGCAC GGAATCT	1
1877	CHIP4669	STM specil	STM4214		ATGAAAT TTAGCTG ATGAAAT	1
1878	CHIP4646	STM/STY	STM3463	STY4334	ATGGCAG TTATTCG CTGGCAG	1
1879	CHIP0098	STM/STY	STM0448	STY0490	ATGTCAT TTAATTAC ATGTCAT	1
1880	CHIP0173	STM/STY	STM1243	STY1881	ATGTCTC TTATGAA TTGTCTC	1
1881	CHIP3902	STM/STY	STM1291	STY1824	ATGGCTA TTAGTTG ATGGCTA	1
1882	CHIP3903	STM/STY	STM1293	STY1821	ATGACAA TTACCTG ATGACAA	1
1883	CHIP4329	STM/STY	STM4558	STY4908	ATGAACA TTACATG ATGAACA	1
1884	CHIP2608	STM/STY	STM3886	STY3891	ATGGCTA TTAACCC TTGGCTA	1
1885	CHIP2920	STM/STY	STM1873	STY2079	ATGAAAA TTAGCTA ATGAAAA	1
1886	CHIP4672	STM/STY	STM4276	STY4474	ATGAAAT TTATGTG ATGAAAT	1
1887	CHIP4688	STM/STY	STM0727	STY0770	ATGCCCT TTATCTG ATGCCCT	1
1888	CHIP4721	STM/STY	STM2161	STY2391	ATGCGCC TTACCCG ATGCGCC	1
1889	CHIP4731	STM/STY	STM2329	STY2559	ATGCCCA TTAACAC GTGCCCA	1
1890	CHIP2887	STM/STY	STM1809	STY1938	ATGAACA TTAGAGT ATGAACA	1
1891	CHIP1072	STM specil	PSLT057		ATGGATA TTAGCGG GTGGATA	1
1892	CHIP1112	STM specil	PSLT104		ATGAGCT TTAGAAA ATGAGCT	1
1893	CHIP1081	STM specil	PSLT067		ATGACAG TTAAGTC ATGACAG	1
1894	CHIP1113	STM specil	PSLT105		ATGGCGC TTATAAA ATGGCGC	0
1895	CHIP1066	STM specil	PSLT043		ATGAAGT TTATATT GTGAAGT	1
1896	CHIP1106	STM specil	PSLT097		ATGCGAA TTAGAAA ATGCGAA	1
1897	CHIP0945	none	R460028		ATGGAAA TTATCTC ATGGAAA	0
1898	CHIP1008	none	R460029		ATGAATG TTACACA ATGAATG	0
1899	CHIP4896	none	R460042		ATGGATA TTAGACG ATGGATA	0
1900	CHIP4883	none	R460019		ATGGCCC TTAGTTG ATGGCCC	0
1901	CHIP4877	none	R460012		ATGAGAG TTAAGCC ATGAGAG	0
1902	CHIP4904	none	R460057		ATGAGCG TTACATT ATGAGCG	0
1903	CHIP4802	STM/STY			ATCAACC CTGCGAT ATCAACC	0
1904	CHIP4806	STM/STY	STM0701	STY0739	CCCGTAA TGCGTCA CCCGTAA	1
1905	CHIP4810	STM specific			CCTGACC CTGCAGC CCTGACC	0
1906	CHIP4814	STM/STY			CCCACCC GTTCCGC CCCACCC	0
1907	CHIP4818	STM specific			GGACCAA TGAGCCA GGACCAA	0
1908	CHIP4822	STM/STY			TGTTGTG ACGAGAA TGTTGTG	0
1909	CHIP5104	STY specific		STY2044	ATGCAGA TTATATC ATGCAGA	0
1910	CHIP5209	STY specific		STY3292	ATGGAGC TTACACC TTGGAGC	0
1911	CHIP5225	STY specific		STY3661	ATGAGAC TTAATTA ATGAGAC	0
1912	CHIP5159	STY specific		STY2420	ATGGCTT TTACCGA GTGGCTT	0
1913	CHIP5173	STY specific		STY2884	ATGAGTG TTATGCG ATGAGTG	0

1914	CHIP4910	STY specific		STY0114	ATGTTTGTTAGCCA TTGTTTG	0
1915	CHIP5129	STY specific		STY2070	ATGATTGTTACCATATGATTG	0
1916	CHIP5145	STM/STY		STY2345	ATGACAGTTAAATCATGACAG	0
1917	CHIP5161	STM/STY			ATGAATCTTATTTACATGAATC	0
1918	CHIP5175	STY specific		STY2886	ATGAGCGTTAGGCT ATGAGCG	0
1919	CHIP4912	STM/STY		STY0159	ATGAAGGTTAACGG ATGAAGG	0
1920	CHIP4928	STY specific		STY0313	ATGGGTA TTATTTTAATGGGTA	0
1921	CHIP5139	STM/STY		STY2203	ATGAACA TTAGAAC ATGAACA	0
1922	CHIP5155	STY specific		STY2361	ATGGGCC TTATTTTAATGGGCC	0
1923	CHIP5169	STY specific		STY2879	ATGACAA TTACAAC ATGACAA	0
1924	CHIP5185	STY specific		STY3067	ATGAAGGTTATGTTATGAAGG	0
1925	CHIP5017	STY specific		STY1592	ATGATGA TTA CTTCATGATGA	0
1926	CHIP5033	STY specific		STY1609	ATGAACTTTATGCAATGAACT	0
1927	CHIP5157	STY specific		STY2363	ATGGCTGTTAGTTAATGGCTG	0
1928	CHIP5260	STY specific		STY3762	ATGAACA TTATGGC ATGAACA	0
1929	CHIP5275	STM/STY			ATGTACA TTATTTTATGTACA	0
1930	CHIP5019	STY specific		STY1594	ATGATTA TTAGTCG ATGATTA	0
1931	CHIP5035	STY specific		STY1611	ATGTGGC TTATTTCTGTGTGGC	0
1932	CHIP5050	STY specific		STY1627	ATGAGTGTTAGCAA GTGAGTG	0
1933	CHIP5366	STM/STY			ATGGATGTTACCCC GTGGATG	0
1934	CHIP5299	STY specific		STY4523	ATGGCTA TTAATGC ATGGCTA	0
1935	CHIP5322	STY specific		STY4558	ATGAAAC TTAGAATATGAAAC	0
1936	CHIP5336	STY specific		STY4575	ATGAAAC TTATTGA ATGAAAC	0
1937	CHIP5352	STY specific		STY4592	ATGAACA TTAGGCC ATGAACA	0
1938	CHIP5367	STM/STY STM2712		STY4617	ATGAACA TTATCCA GTGAACA	1
1939	CHIP5430	STY specific		STY4852	ATGGTTC TTACCCT ATGGTTC	0
1940	CHIP5370	STM/STY			ATGACAGTTAGCAA ATGACAG	0
1941	CHIP5382	STY specific		STY4650	ATGGATA TTAGCGT ATGGATA	0
1942	CHIP5319	STY specific		STY4553	ATGGAGT TTATTCCGTGGAGT	0
1943	CHIP5333	STY specific		STY4572	ATGATGG TTATATA GTGATGG	0
1944	CHIP5349	STY specific		STY4589	ATGTTAT TTATGCG GTGTTAT	0
1945	CHIP2696	STM/STY STM0180		STY0198	ATGATTC TTAGGCA ATGATTC	1
1946	CHIP2728	STM/STY STM0244		STY0271	ATGCGTG TTATTTCTATGCGTG	1
1947	CHIP2744	STM/STY STM1530		STY1532	ATGAAAA TTA AAC ATGAAAA	1
1948	CHIP0786	STM/STY STM1718		STY1332	ATGAGTG TTAATAA ATGAGTG	1
1949	CHIP2593	STM/STY STM3855		STY3928	ATGGCTA TTAACCG ATGGCTA	1
1950	CHIP2609	STM/STY STM3887		STY3889	ATGACCA TTA CTCCATGACCA	1
1951	CHIP0796	STM/STY STM4580		STY4927	ATGTCAT TTATCCC GTGTCAT	1
1952	CHIP0812	STM/STY STM2026		STY2231	ATGAATG TTA CTCCGTGAATG	1
1953	CHIP0836	STM/STY STM3448		STY4350	ATGGCAA TTAAGCC ATGGCAA	1
1954	CHIP0860	STM/STY STM2451		STY2688	ATGAAAC TTA AACATGAAAC	1
1955	CHIP3243	STM/STY STM3319		STY3498	ATGGCAA TTAGAGT ATGGCAA	1
1956	CHIP3259	STM/STY STM3358		STY3538	ATGAAAA TTAGGCT GTGAAAA	1
1957	CHIP2669	STM/STY STM0135		STY0155	ATGAGTG TTAGCTG GTGAGTG	0
1958	CHIP2685	STM/STY STM0168		STY0190	ATGTTACTTAGACC ATGTTACT	1
1959	CHIP2701	STM/STY STM0187		STY0212	ATGCTAT TTACAACATGCTAT	1
1960	CHIP2717	STM/STY STM0223		STY0246	ATGCTGA TTACAACATGCTGA	1
1961	CHIP2733	STM/STY STM1507		STY1554	ATGGATT TTAGGCGATGGATT	1
1962	CHIP2749	STM/STY STM1538		STY1525	ATGGCAT TTATCGTATGGCAT	1
1963	CHIP3295	STM specil STM0656			ATGAAAA TTAATGCATGAAAA	1
1964	CHIP3319	STM/STY			ATGTCAG TTATAATATGTCAG	0
1965	CHIP3712	STM specil STM4538			ATGATTT TTA AACATGATTT	1

1966	CHIP4024	STM/STY	STM2138	STY2366	ATGTATT(TTACGTA' ATGTATT(	1
1967	CHIP4040	STM specil	STM2730		ATGAGCA TTACTGC' ATGAGCA	1
1968	CHIP4064	STM specil	STM2757		ATGAAAC' TTATGCG ATGAAAC	1
1969	CHIP3730	STM/STY	STM4578	STY4925	ATGCCTA TTATTTCT' ATGCCTA	1
1970	CHIP3746	STM/STY	STM0260	STY0281	ATGAAGG TTAGGAG ATGAAGG	1
1971	CHIP3770	STM/STY	STM0310	STY0355	ATGTACC TTATTTAA' ATGTACC	1
1972	CHIP3786	STM specil	STM0333		ATGCAAC TTACAGT' TTGCAAC	1
1973	CHIP3802	STM/STY	STM1072	STY1094	ATGAGAG TTACCCA' ATGAGAG	1
1974	CHIP2378	STM/STY	STM1492	STY1572	ATGGATA TTATCGT' ATGGATA	1
1975	CHIP3780	STM specil	STM0327		ATGGTTA' TTACACG GTGGTTA	1
1976	CHIP3796	STM/STY	STM1059	STY1080	ATGCGAA TTAACCA' ATGCGAA	1
1977	CHIP2372	STM/STY	STM1455	STY1667	ATGCTGA TTATTCT' ATGCTGA	1
1978	CHIP3836	STM/STY	STM1137	STY1174	ATGAATG TTATTCT' ATGAATG	1
1979	CHIP3852	STM/STY	STM1189	STY1228	ATGCCCC TTATTGC' ATGCCCC	1
1980	CHIP3868	STM/STY	STM1215		ATGTTCA' TTACAGC ATGTTCA	1
1981	CHIP2374	STM/STY	STM1459	STY1663	ATGACTG TTACAAC' ATGACTG	1
1982	CHIP2390	STM/STY	STM3424	STY4374	ATGGATA TTAGAAC' ATGGATA	1
1983	CHIP2406	STM/STY	STM3468	STY4328	ATGGCAA TTAGGCC ATGGCAA	1
1984	CHIP2422	STM/STY	STM3505	STY4291	ATGCAAT TTAACAG' ATGCAAT	1
1985	CHIP2438	STM specific			ATGATGA TTAGCGC ATGATGA	0
1986	CHIP2454	STM specil	STM3558		ATGACCC TTAGGCA ATGACCC	1
1987	CHIP3504	STM/STY	STM0992	STY0994	ATGAGTG TTAATAT' ATGAGTG	1
1988	CHIP4105	STM/STY	STM4054	STY3817	ATGAAGC TTAATTT' ATGAAGC	1
1989	CHIP4129	STM/STY	STM4104	STY3765	ATGAAAG TTACTTC' ATGAAAG	1
1990	CHIP4145	STM/STY	STM4128	STY3746	ATGAAAC' TTATTCC' ATGAAAC	1
1991	CHIP4161	STM/STY	STM2905	STY3027	ATGATGT TTATAAC' ATGATGT	1
1992	CHIP4185	STM specil	STM2940		ATGAGCC TTATTCT' ATGAGCC	1
1993	CHIP4139	STM/STY	STM4117	STY3756	ATGTATC' TTATCCT' ATGTATC	1
1994	CHIP4155	STM specil	STM2865		ATGATAT' TTACGGT ATGATAT	1
1995	CHIP4171	STM/STY	STM2920	STY3045	ATGGAGT TTACGTC' ATGGAGT	1
1996	CHIP3051	STM/STY	STM2392	STY2624	ATGAAGC TTATTCC' ATGAAGC	1
1997	CHIP3451	STM specil	STM0908		ATGAATC' TTACTTC' ATGAATC	1
1998	CHIP3091	STM/STY	STM2493	STY2734	ATGCTCG TTAGGAT' ATGCTCG	1
1999	CHIP3534	STM/STY	STM4185	STY4403	ATGCCGC TTACGAA' ATGCCGC	1
2000	CHIP4126	STM/STY	STM4100	STY3769	ATGACGC TTACCCC ATGACGC	1
2001	CHIP4142	STM/STY	STM4120	STY3753	ATGAAAA' TTAATGC' ATGAAAA	1
2002	CHIP4174	STM/STY	STM2925	STY3050	ATGAGCG TTATCGC' ATGAGCG	1
2003	CHIP3046	STM/STY	STM2381	STY2613	ATGAACA' TTAATTA' ATGAACA	1
2004	CHIP3070	STM/STY	STM2445	STY2682	ATGGGTA TTAGACG ATGGGTA	1
2005	CHIP0225	STM/STY	STM2241	STY2467	ATGCCCT TTAGTTA' ATGCCCT	0
2006	CHIP2324	STM/STY	STM1100	STY1132	ATGCATG TTATGCT' ATGCATG	1
2007	CHIP2348	STM/STY	STM1301	STY1813	ATGATAA' TTAGCAC ATGATAA	1
2008	CHIP3617	STM/STY	STM4350	STY4710	ATGAGTG TTACAGC ATGAGTG	1
2009	CHIP3633	STM/STY	STM4386	STY4742	ATGTCAT TTAGCCC ATGTCAT	1
2010	CHIP3657	STM specil	STM4431		ATGAAAA' TTAGGCG ATGAAAA	1
2011	CHIP2979	STM/STY	STM2260	STY2486	ATGCGCA TTATGGT' ATGCGCA	1
2012	CHIP3675	STM specil	STM4483		ATGAACG TTAGACG ATGAACG	1
2013	CHIP3691	STM/STY	STM4500	STY4856	ATGATGA TTATCGC' ATGATGA	1
2014	CHIP3707	STM/STY	STM4533	STY4892	ATGTTAA' TTAATAA' ATGTTAA	1
2015	CHIP2287	STM/STY	STM1221	STY1261	ATGCAGT TTACAGC ATGCAGT	1
2016	CHIP2311	STM/STY	STM1440	STY1682	ATGAAGC TTATTTAA' ATGAAGC	1
2017	CHIP2281	STM/STY	STM1148		ATGCGGT TTACAGC' ATGCGGT	0

2018	CHIP0222	STM/STY	STM3442	STY4356	ATGTTTG' TTAACCG ATGTTTG'	1
2019	CHIP0238	STM/STY	STM2469	STY2705	ATGAAAC TTAGCTG ATGAAAC	1
2020	CHIP2337	STM/STY	STM1223	STY1263	ATGATCG TTATCGG ATGATCG	1
2021	CHIP2353	STM/STY	STM1326	STY1785	ATGGTAC TTATTGC(ATGGTAC	1
2022	CHIP3622	STM/STY	STM4370	STY4727	ATGGCAT TTATTCC' ATGGCAT	1
2023	CHIP2339	STM/STY	STM1226	STY1266	ATGGGAC TTAATTG' ATGGGAC	1
2024	CHIP0280	STM/STY	STM0021	STY0024	ATGAAAA TTAGGAA ATGAAAA	1
2025	CHIP3904	STM/STY	STM1297	STY1817	ATGTCCA TTAACGA ATGTCCA	1
2026	CHIP3920	STM/STY	STM1335	STY1776	ATGCCAA TTATGCG ATGCCAA	1
2027	CHIP3952	STM/STY	STM1429	STY1693	ATGTGGT TTAATCC(ATGTGGT	1
2028	CHIP0545	STM/STY	STM3560	STY4252	ATGGAAA TTAACCG ATGGAAA	1
2029	CHIP0531	STM/STY	STM0112	STY0131	ATGTCGA TTACACC(ATGTCGA	1
2030	CHIP0555	STM/STY	STM0689	STY0727	ATGGCAC TTAGGCT ATGGCAC	1
2031	CHIP0571	STM/STY	STM4231	STY4427	ATGATGA TTACCAC(ATGATGA	1
2032	CHIP1422	STM/STY	STM3883	STY3895	ATGACAA TTAAGTA ATGACAA	1
2033	CHIP1350	STM/STY	STM0203	STY0225	ATGAAAA TTAAGTA ATGAAAA	1
2034	CHIP1462	STM/STY	STM0452	STY0494	ATGATGG TTAAGTA ATGATGG	1
2035	CHIP1464	STM/STY	STM0403	STY0441	ATGAATT TTACAGC ATGAATT	1
2036	CHIP1480	STM/STY	STM4242	STY4438	ATGAACA TTAGAAT(GTGAACA	1
2037	CHIP1496	STM/STY	STM2372	STY2603	ATGACAG TTAACCG ATGACAG	1
2038	CHIP3917	STM/STY	STM1324	STY1787	ATGTGGC TTATACC(ATGTGGC	1
2039	CHIP3933	STM specil	STM1355		ATGTATC, TTAGGTA ATGTATC,	1
2040	CHIP3973	STM/STY	STM1472	STY1650	ATGATCA TTATTGT(ATGATCA	1
2041	CHIP3991	STM/STY	STM2079	STY2288	ATGACAG TTACAAG ATGACAG	1
2042	CHIP1419	STM/STY	STM3851	STY3932	ATGAGGC TTAGTGT ATGAGGC	1
2043	CHIP1355	STM/STY	STM0221	STY0244	ATGTTGT TTAGGCT ATGTTGT	1
2044	CHIP1371	STM/STY	STM2060	STY2265	ATGCGTG TTATTTG(GTGCCTG	1
2045	CHIP1387	STM/STY	STM0125	STY0145	ATGTTAG TTAACGT, ATGTTAG	1
2046	CHIP1499	STM/STY	STM2362	STY2592	ATGTGCG TTAGCCT ATGTGCG	1
2047	CHIP2061	STM/STY	STM3568	STY4243	ATGACCA TTACGCT ATGACCA	1
2048	CHIP3225	STM/STY	STM3282	STY3463	ATGCTTA TTAAGTA ATGCTTA	1
2049	CHIP1526	STM/STY	STM2554	STY2801	ATGGCAT TTATGAC(ATGGCAT	1
2050	CHIP1003	STM specil	STM1018		ATGAATT, TTAATCG(ATGAATT,	0
2051	CHIP1035	STM/STY	STM0226	STY0249	ATGCCTT TTAGTCT ATGCCTT	1
2052	CHIP3138	STM specil	STM2594		ATGACTG TTATCGC GTGACTG	0
2053	CHIP2032	STM/STY	STM3736	STY4058	ATGAAGT TTATCGG ATGAAGT	1
2054	CHIP2048	STM/STY	STM3627	STY4171	ATGGCGT TTATAGT(ATGGCGT	1
2055	CHIP2064	STM/STY	STM3553	STY4258	ATGAGTA TTAAGTA ATGAGTA	1
2056	CHIP2080	STM/STY	STM3742	STY4050	ATGTATC TTAGTTT(TTGTATC	1
2057	CHIP1521	STM/STY	STM2345	STY2575	ATGTCGA TTAGCAG ATGTCGA	1
2058	CHIP1545	STM/STY	STM2557	STY2804	ATGCAGC TTAATCT ATGCAGC	1
2059	CHIP0992	STM/STY	STM2438	STY2676	ATGAAGA TTAAGTA ATGAAGA	1
2060	CHIP1016	STM/STY	STM0830	STY0868	ATGAAGT TTATTTAC ATGAAGT	1
2061	CHIP1595	STM/STY	STM0583	STY0626	ATGGCGC TTATTGT(ATGGCGC	1
2062	CHIP2003	STM/STY	STM4465	STY4803	ATGGTTA TTAGTCG ATGGTTA	1
2063	CHIP3167	STM/STY	STM2643	STY2836	ATGACTG TTAAGTA ATGACTG	1
2064	CHIP3183	STM/STY	STM3195	STY3373	ATGAATC TTAGCTG ATGAATC,	1
2065	CHIP0603	STM/STY	STM4248	STY4444	ATGTTTC, TTACATG, GTGTTTC,	1
2066	CHIP0715	STM/STY	STM2549	STY2795	ATGTCAC TTAATCG(ATGTCAC	1
2067	CHIP0731	STM/STY	STM2071	STY2280	ATGTTAG TTACTCC, ATGTTAG,	1
2068	CHIP0763	STM/STY	STM0549	STY0596	ATGAAAC TTACAAT ATGAAAC	1
2069	CHIP1822	STM/STY	STM4026	STY3852	ATGCTCT, TTAGCAT, ATGCTCT,	1

2070	CHIP1854	STM/STY	STM0880	STY0913	ATGAATA TTAGCCG ATGAATA	1
2071	CHIP0662	STM/STY	STM0709	STY0749	ATGCCCA TTACGCC ATGCCCA	1
2072	CHIP1809	STM/STY	STM4067	STY3803	ATGCACG TTACCCT ATGCACG	1
2073	CHIP1841	STM/STY	STM0681	STY0719	ATGACCA TTAGATA ATGACCA	1
2074	CHIP1873	STM/STY	STM0728	STY0771	ATGCCTG TTATTTCT ATGCCTG	1
2075	CHIP0679	STM/STY	STM4105	STY3761	ATGAGCT TTATAAAC ATGAGCT	1
2076	CHIP0615	STM/STY	STM4266	STY4464	ATGGAAA TTAATCA ATGGAAA	1
2077	CHIP0449	STM/STY			ATGGTGA TTATATC GTGGTGA	0
2078	CHIP0465	STM/STY	STM2556	STY2803	ATGCTTG TTACAGC ATGCTTG	1
2079	CHIP4673	STM/STY	STM0155	STY0178	ATGAAAC TTAGCCC ATGAAAC	1
2080	CHIP0122	STM/STY	STM4164	STY3721	ATGTCTA TTAGGCT ATGTCTA	1
2081	CHIP0138	STM/STY	STM4023	STY3855	ATGGCAG TTAATTT ATGGCAG	1
2082	CHIP4737	STM specil	STM4069		ATGTCGC TTACAGC ATGTCGC	1
2083	CHIP0388	STM/STY	STM2878	STY3001	ATGCTAA TTAGCTT ATGCTAA	1
2084	CHIP0404	STM/STY	STM1192	STY1231	ATGGGGC TTATCTG ATGGGGC	1
2085	CHIP1255	STM/STY	STM1702	STY1350	ATGTTTC TTACGCT ATGTTTC	1
2086	CHIP1287	STM/STY	STM2662	STY2851	ATGGCAC TTATAAC ATGGCAC	1
2087	CHIP1303	STM/STY	STM0049	STY0058	ATGCAGA TTATTCG ATGCAGA	1
2088	CHIP4684	STM/STY	STM1024	STY1038	ATGAAAA TTACGCT ATGAAAA	1
2089	CHIP1313	STM/STY	STM3775	STY4009	ATGCGAT TTAATCA ATGCGAT	1
2090	CHIP4694	STM/STY	STM1410	STY1710	ATGTTGC TTATAGC GTGTTGC	1
2091	CHIP0135	STM/STY	STM1729	STY1322	ATGAATA TTATTTCT ATGAATA	1
2092	CHIP4734	STM specil	STM2725		ATGAGAT TTATGCA ATGAGAT	0
2093	CHIP4357	STM/STY	STM0420	STY0459	ATGATGA TTAATAA ATGACCA	1
2094	CHIP0399	STM/STY	STM1659	STY1405	ATGCTGA TTATAAT ATGCTGA	1
2095	CHIP2866	STM/STY	STM1760	STY1292	ATGTCAA TTAATTC TCAAAAA	1
2096	CHIP1708	STM/STY	STM1825	STY1955	ATGGATA TTAGGGC GTGGATA	1
2097	CHIP1724	STM/STY	STM1767	STY1285	ATGAATA TTAATAA ATGAATA	1
2098	CHIP1740	STM/STY	STM2995	STY3133	ATGCCCC TTATTCA ATGCCCC	1
2099	CHIP1756	STM/STY	STM2930	STY3055	ATGGCAG TTATGCT ATGGCAG	1
2100	CHIP1772	STM/STY	STM2919	STY3044	ATGATAC TTATTGT TTGATAC	1
2101	CHIP0377	STM/STY	STM1114	STY1150	ATGATGA TTATTGG ATGATGA	1
2102	CHIP0759	STM/STY	STM0088	STY0103	ATGGCAA TTAGGCG ATGGCAA	1
2103	CHIP0052	STM/STY	STM3930	STY3625	ATGGCAG TTATTCC ATGGCAG	1
2104	CHIP0068	STM/STY	STM3913	STY3641	ATGAATT TTAGCGA ATGAATT	1
2105	CHIP0092	STM/STY	STM4151	STY3734	ATGGCTT TTACGCA ATGGCTT	1
2106	CHIP1711	STM/STY	STM1815	STY1945	ATGGCAC TTATCCT ATGGCAC	1
2107	CHIP1705	STM/STY	STM1841	STY1971	ATGCGTT TTAGCCA ATGCGTT	1
2108	CHIP0894	STM/STY	STM1920	STY2129	ATGACCG TTACGCG ATGACCG	1
2109	CHIP0910	STM/STY	STM4190	STY4407	ATGGAAC TTAATAA ATGGAAC	1
2110	CHIP0934	STM/STY	STM0432	STY0471	ATGATGA TTACCCC ATGATGA	1
2111	CHIP1785	STM/STY	STM4043	STY3831	ATGATCC TTAATGC ATGATCC	1
2112	CHIP0023	STM/STY	STM3964	STY3595	ATGATCG TTACAGG ATGATCG	0
2113	CHIP4464	STM/STY	STM0610	STY0658	ATGGATT TTAATCA ATGGATT	1
2114	CHIP2856	STM/STY	STM1733	STY1318	ATGAGCC TTAATTT ATGAGCC	1
2115	CHIP2776	STM/STY	STM1577	STY1488	ATGAGTA TTATTTT ATGAGTA	1
2116	CHIP2792	STM/STY	STM1609	STY1455	ATGCGTA TTACGAA ATGCGTA	1
2117	CHIP2808	STM/STY	STM1631	STY1439a	ATGCCAT TTATTCA ATGCCAT	1
2118	CHIP2832	STM/STY	STM1670	STY1394	ATGGCTT TTAGCGA ATGGCTT	1
2119	CHIP4387	STM/STY	STM0476	STY0520	ATGAACA TTAAGAC ATGAACA	1
2120	CHIP1143	STM/STY	STM1543	STY1519	ATGAAAA TTAATGA ATGAAAA	1
2121	CHIP1159	STM/STY	STM1527	STY1534	ATGACAG TTAGGTC ATGACAG	1

2122	CHIP1183	STM/STY	STM0979	STY0979	ATGAAAA TTACTTTTATGAAAA	1
2123	CHIP4467	STM/STY	STM0615	STY0663	ATGAAAG TTAGACA ATGAAAG	1
2124	CHIP2859	STM/STY	STM1740	STY1311	ATGGAAA TTATTTCGATGGAAA	1
2125	CHIP2757	STM specil	STM1550		ATGACTT TTAGCTT(ATGACTT,	1
2126	CHIP2773	STM specil	STM1571		ATGGTTG TTAGCGCATGGTTG	1
2127	CHIP2789	STM/STY	STM1604	STY1460	ATGCGCC TTAACGATGCGCC	1
2128	CHIP2813	STM/STY	STM1638	STY1433	ATGAAGC TTACGATATGAAGC	0
2129	CHIP2933	STM specil	STM1896		ATGGCCA TTATTGG ATGGCCA	1
2130	CHIP1130	STM/STY	STM1878	STY2084	ATGTTGC TTATTGT(ATGTTGC	1
2131	CHIP4200	STM/STY	STM2973	STY3112	ATGGCGA TTACCAG ATGGCGA	1
2132	CHIP4224	STM/STY	STM3021	STY3166	ATGCAAC TTATGCAATGCAAC	1
2133	CHIP4240	STM/STY	STM3062	STY3218	ATGGCAA TTAGTAC ATGGCAA	1
2134	CHIP4256	STM/STY	STM3093	STY3246	ATGTACC TTAGCTC ATGTACC	1
2135	CHIP4368	STM/STY	STM0445	STY0487	ATGATGG TTAACGG ATGATGG	1
2136	CHIP2464	STM/STY	STM3581	STY4230	ATGATAG TTACGAC ATGATAG	1
2137	CHIP2482	STM/STY	STM3618	STY4182	ATGTGTG TTAACA ATGTGTG	1
2138	CHIP2506	STM/STY	STM3676	STY4120	ATGCGTA TTAACAT(ATGCGTA	1
2139	CHIP2522	STM/STY	STM3704	STY4091	ATGTCGG TTATTCC ATGTCGG	1
2140	CHIP4195	STM/STY	STM2961	STY3099	ATGACAA TTAGTGA ATGACAA	1
2141	CHIP4211	STM/STY	STM2991	STY3129	ATGTCGG TTAACCT(ATGTCGG	1
2142	CHIP4235	STM/STY	STM3040	STY3196	ATGTCTG TTATTTCT ATGTCTG	1
2143	CHIP2469	STM/STY	STM3588	STY4215	ATGGAAA TTAGCGT GTGGAAA	1
2144	CHIP4605	STM/STY	STM2981	STY3121	ATGACCA TTATTCAATGACCA	1
2145	CHIP4621	STM/STY	STM4312		ATGGATA TTAGGCA ATGGATA	1
2146	CHIP2533	STM specil	STM3745		ATGAAAA TTATTTCGATGAAAA	1
2147	CHIP4294	STM/STY	STM3177	STY3354	ATGCGAA TTATGCG ATGCGAA	1
2148	CHIP4222	STM/STY	STM3016	STY3160	ATGGTCT TTACACG ATGGTCT	1
2149	CHIP1644	STM/STY	STM2214	STY2450	ATGGTCA TTAACCTGATGGTCA	1
2150	CHIP1660	STM/STY	STM2096	STY2306	ATGAATA TTAGATG ATGAATA	1
2151	CHIP1676	STM/STY	STM2158	STY2388	ATGATTA TTACAGG ATGATTA	1
2152	CHIP1892	STM/STY	STM0940	STY0936	ATGTCGC TTAGCGT ATGTCGC	1
2153	CHIP2100	STM/STY	STM3662	STY4136	ATGTTTG TTACAAC ATGTTTG	1
2154	CHIP1932	STM/STY	STM4317	STY4517	ATGCCAG TTATTTTATGCCAG	1
2155	CHIP2086	STM/STY	STM3706	STY4089	ATGCCTC TTAATCT(TTGCCTC	1
2156	CHIP2110	STM/STY	STM3596	STY4206	ATGCTCA TTAACCT(ATGCTCA	1
2157	CHIP2126	STM/STY	STM3503	STY4293	ATGAAAA TTATTTG ATGAAAA	1
2158	CHIP2142	STM/STY	STM3295	STY3473	ATGAAAC TTAACCT ATGAAAC	1
2159	CHIP1974	STM/STY	STM4569	STY4920	ATGAAAC TTACAGC ATGAAAC	1
2160	CHIP4483	STM specil	STM0351		ATGAAAT TTATGCT ATGAAAT	1
2161	CHIP2144	STM/STY	STM3284	STY3465	ATGAGTC TTACGCT ATGAGTC	1
2162	CHIP2160	STM/STY	STM3185	STY3363	ATGCGTA TTATTTTATGCGTA	1
2163	CHIP2176	STM/STY	STM3107	STY3262	ATGATGC TTACTTC ATGATGC	1
2164	CHIP1617	STM/STY	STM2817	STY2943	ATGCCAT TTAATAATGCCAT	1
2165	CHIP4517	STM/STY	STM2181	STY2411	ATGAGTA TTATTTTATGAGTA	1
2166	CHIP4533	STM/STY	STM2220	STY2456	ATGAATA(TTAAAAAGTGAATA	1
2167	CHIP4535	STM/STY	STM2222	STY2459	ATGCGAC TTAGCCG ATGCGAC	1
2168	CHIP1675	STM/STY	STM2154	STY2383	ATGAACG TTACACC ATGAACG	1
2169	CHIP4575	STM/STY	STM2407	STY2648	ATGTTCA TTAGTGA ATGTTCA	1
2170	CHIP1907	STM/STY	STM3425	STY4373	ATGTCTC TTAACCT ATGTCTC	1
2171	CHIP1923	STM/STY	STM3472	STY4324	ATGCTCA TTATGGC ATGCTCA	1
2172	CHIP1939	STM/STY	STM4363	STY4720	ATGGCGT TTATTCC ATGGCGT	1
2173	CHIP0331	STM/STY	STM3762	STY4024	ATGAATA TTAATCA ATGAATA	1

2174	CHIP2238	STM/STY	STM3157	STY3330	ATGTCTC TTAGCCT ATGTCTC	1
2175	CHIP2262	STM/STY	STM3060	STY3216	ATGTCTG TTATTCA ATGTCTG	1
2176	CHIP3362	STM/STY	STM0782	STY0815	ATGATAC TTAGCGCATGATAC	1
2177	CHIP3394	STM/STY	STM0822	STY0858	ATGGATT TTATTTCG ATGGATT	1
2178	CHIP0292	STM/STY	STM2679	STY2866	ATGACCG TTAGCTCC ATGACCG	1
2179	CHIP0382	STM/STY	STM2081	STY2290	ATGTCCA TTATTCC ATGTCCA	1
2180	CHIP3357	STM/STY	STM0773	STY0806	ATGCTAA TTAGAAC GTGCTAA	1
2181	CHIP3389	STM/STY	STM0817	STY0852	ATGAGTG TTAGCTCA ATGAGTG	1
2182	CHIP3421	STM/STY	STM0862	STY0895	ATGATTA TTAGGTC ATGATTA	1
2183	CHIP2202	STM/STY	STM3314	STY3493	ATGCTTT TTATCCA ATGCTTT	1
2184	CHIP2226	STM/STY	STM3222	STY3402	ATGCTCT TTAGCTGG ATGCTCT	1
2185	CHIP4325	STM/STY	STM4313	STY4513	ATGGTAG TTAATTG GTGGTAG	1
2186	CHIP1447	STM/STY	STM0366	STY0398	ATGAAAA TTATTTCT ATGAAAA	1
2187	CHIP1440	STM/STY	STM2576	STY2822	ATGGCGC TTACAGT ATGGCGC	1
2188	CHIP0462	STM specil	STM2635		ATGAGCA TTACGCC ATGAGCA	1
2189	CHIP0650	STM/STY	STM4459	STY4799	ATGACAC TTAGTTG ATGACAC	1
2190	CHIP1574	STM/STY	STM0586	STY0629	ATGAAAG TTAAGC ATGAAAG	1
2191	CHIP1803	STM/STY	STM4121	STY3752	ATGTTGA TTAATA ATGTTGA	1
2192	CHIP1941	STM/STY	STM4365	STY4722	ATGAATT TTAGCCA ATGAATT	1
2193	CHIP0985	STM/STY	STM1388	STY1732	ATGACAA TTATGAC ATGACAA	1
2194	CHIP1034	STM/STY	STM3384	STY3564	ATGCGCA TTACGCA ATGCGCA	1
2195	CHIP3540	STM specil	STM4198		ATGAGTC TTAACAA ATGAGTC	1
2196	CHIP3572	STM/STY	STM4250	STY4446	ATGTGGT TTATTCC ATGTGGT	1
2197	CHIP1205	STM/STY	STM2736	STY4642	ATGTTTG TTAGATC ATGTTTG	1
2198	CHIP4085	STM/STY	STM2787	STY2907	ATGATGA TTAACTC ATGATGA	1
2199	CHIP4094	STM/STY	STM3995	STY3885	ATGAAAT TTAGCTC ATGAAAT	1
2200	CHIP4160	STM/STY	STM2904	STY3026	ATGAAAA TTATTTCT ATGAAAA	1
2201	CHIP4138	STM specil	STM4116		ATGGCAG TTAGCTCC ATGGCAG	1
2202	CHIP4180	STM/STY	STM2932	STY3057	ATGCGTA TTACCCT ATGCGTA	1
2203	CHIP3965	STM/STY	STM1461	STY1661	ATGACTG TTATTGC ATGACTG	1
2204	CHIP3990	STM/STY	STM1503	STY1560	ATGAACA TTAGGGC ATGAACA	1
2205	CHIP0184	STM/STY	STM2045	STY2250	ATGAATA TTAGGCT ATGAATA	1
2206	CHIP0234	STM/STY	STM4394	STY4750	ATGCAAG TTAGCTC ATGCAAG	1
2207	CHIP0220	STM/STY	STM3444	STY4354	ATGTACG TTAGGCG ATGTACG	1
2208	CHIP1335	STM/STY	STM0307	STY0352	ATGAAAA TTAGCTCA ATGAAAA	1
2209	CHIP2889	STM/STY	STM1813	STY1943	ATGAGGC TTAACGG TTGAGGC	1
2210	CHIP2874	STM/STY	STM1782	STY1908	ATGAAAC TTAGCTA ATGAAAC	1
2211	CHIP2914	STM/STY	STM1857	STY1991	ATGGACA TTATAAA ATGGACA	1
2212	CHIP2924	STM/STY	STM1881	STY2087	ATGAATA TTAGCGG ATGAATA	1
2213	CHIP2902	STM/STY	STM1839	STY1969	ATGAACG TTATCGT ATGAACG	1
2214	CHIP4719	STM/STY	STM2209	STY2445	ATGTGTG TTACATC ATGTGTG	1
2215	CHIP1080	STM specific			ATGGCAG TTAAGAG ATGGCAG	0
2216	CHIP1057	STM specific			ATGTTTG TTAGCGG TTGTTTG	0
2217	CHIP1089	STM specil	PSLT079		ATGGAAC TTATTTT ATGGAAC	1
2218	CHIP0651	STM specil	PSLT038		ATGCCA TTAGCTC ATGCCA	1
2219	CHIP1074	STM specific			ATGTCCC TTAGCGG ATGTCCC	0
2220	CHIP1114	STM specil	PSLT106		ATGCTGA TTAGCTC ATGCTGA	0
2221	CHIP0951	none	R460025		ATGCCAA TTAGCGC ATGCCAA	0
2222	CHIP4875	none	R460010		ATGACCA TTAGCTT ATGACCA	0
2223	CHIP4902	none	R460055		ATGAAAT TTAGGTC ATGAAAT	0
2224	CHIP4890	none	R460035		ATGCTGA TTATTCA ATGCTGA	0
2225	CHIP4884	none	R460020		ATGACTG TTAGAGG ATGACTG	0

2226	CHIP4871	none	R460005		ATGAAGA TTATAAG(ATGAAGA	0
2227	CHIP4803	STM specific			CGCCGAT TAAATGC(CGCCGAT	0
2228	CHIP4807	STM specil	STM2590		CCAGTGC CAACCTG(CCAGTGC	1
2229	CHIP4811	STM/STY			TCGGTTT CAGAGAG(TCGGTTT	0
2230	CHIP4815	STM specific			GCTGTAC CCGGATG(GCTGTAC	0
2231	CHIP4819	STM specil	STM1010		CATTAATAGTGGTT(CATTAAT	0
2232	CHIP4823	STM/STY			ATAGCGC GGCCGC(ATAGCGC	0
2233	CHIP5197	STY specific		STY3188	ATGACGA TTAGCTT(ATGACGA	0
2234	CHIP5127	STY specific		STY2068	ATGAACG TTATACC(ATGAACG	0
2235	CHIP5143	STY specific		STY2298	ATGAAGC TTATATAC(ATGAAGC	0
2236	CHIP5247	STY specific		STY3685	ATGAACA TTAGCCA GTGAACA	0
2237	CHIP5262	STY specific		STY3764	ATGAATT TTATTGG ATGAATT	0
2238	CHIP5005	STM/STY		STY1293	ATGACGC TTATTTCA/ATGACGC	0
2239	CHIP5219	STM/STY			ATGATGG TTAGCAG ATGATGG	0
2240	CHIP5234	STY specific		STY3671	ATGAAGA TTATTTAC(ATGAAGA	0
2241	CHIP5249	STY specific		STY3687	ATGAACG TTATACC(ATGAACG	0
2242	CHIP5264	STY specific		STY3845	ATGAGTA TTACCAT GTGAGTA	0
2243	CHIP5007	STY specific		STY1360	ATGAATA TTATACA(GTGAATA	0
2244	CHIP5023	STY specific		STY1598	ATGACAC TTATATG/ATGACAC	0
2245	CHIP5229	STY specific		STY3665	ATGCGTA TTAGTGG ATGCGTA	0
2246	CHIP5243	STY specific		STY3681	ATGACGC TTAACGA ATGACGC	0
2247	CHIP5258	STY specific		STY3703	ATGATGA TTAAGA(ATGATGA	0
2248	CHIP4914	STY specific		STY0202	ATGGTGA TTATTCA(ATGGTGA	0
2249	CHIP4930	STY specific		STY0322	ATGAAAT TTATGGA ATGAAAT	0
2250	CHIP4946	STM/STY		STY0478	ATGGCGA TTATTCT(ATGGCGA	0
2251	CHIP5245	STY specific		STY3683	ATGAAAA TTATGCT(ATGAAAA	0
2252	CHIP5179	STM/STY		STY2895	ATGCGGT TTAAGTGTGCGGT	0
2253	CHIP4916	STY specific		STY0204	ATGAAAA TTATTGA ATGAAAA	0
2254	CHIP4932	STY specific		STY0324	ATGACGA TTAGCCA ATGACGA	0
2255	CHIP4948	STY specific		STY0480	ATGCAGC TTAATA/ATGCAGC	0
2256	CHIP4964	STY specific		STY1029	ATGGGTC TTAGGAG TTGGGTC	0
2257	CHIP5284	STY specific		STY4219	ATGAAAA TTATTTT/ATGAAAA	0
2258	CHIP5385	STY specific		STY4653	ATGTTTCG TTATATA1GTGTTTCG	0
2259	CHIP5403	STY specific		STY4679	ATGATGA TTAATGA ATGATGA	0
2260	CHIP5419	STY specific		STY4831	ATGAAAA TTAGTGC ATGAAAA	0
2261	CHIP5434	STM/STY		STY4875	ATGAAAA TTAGTGA ATGAAAA	0
2262	CHIP5285	STY specific		STY4220	ATGAAAG TTATTGA(GTGAAG	0
2263	CHIP5356	STY specific		STY4596	ATGAGAA TTAATCC ATGAGAA	0
2264	CHIP5288	STM/STY		STY4259	ATGAAAC TTAAGGG ATGAAAC	0
2265	CHIP5304	STY specific		STY4529	ATGATGA TTACAGT GTGATGA	0
2266	CHIP5400	STY specific		STY4675	ATGAGGT TTACGGA TTGAGGT	0
2267	CHIP5416	STY specific		STY4828	ATGCACA TTATACC ATGCACA	0
2268	CHIP5431	STY specific		STY4853	ATGACCT TTAATGC ATGACCT	0
2269	CHIP2704	STM/STY	STM0190	STY0215	ATGGCGC TTAATTG(ATGGCGC	1
2270	CHIP3304	STM/STY	STM0680	STY0718	ATGTGTT TTAAGTGG ATGTGTT	1
2271	CHIP3320	STM/STY	STM0702	STY0743	ATGACAA TTACGGC GTGACAA	1
2272	CHIP2577	STM/STY	STM3832	STY3946	ATGTCGA TTAATAT ATGTCGA	1
2273	CHIP0810	STM/STY	STM2028	STY2233	ATGAATA TTAGTGT(ATGAATA	1
2274	CHIP0826	STM/STY	STM3789	STY3993	ATGAACA TTAACG ATGAACA	1
2275	CHIP2587	STM specil	STM3845		ATGTTTG TTAATTA/ATGTTTG	1
2276	CHIP2603	STM/STY	STM3877	STY3901	ATGAAAA TTATAAA/ATGAAAA	1
2277	CHIP2627	STM/STY	STM0041	STY0049	ATGCCAT TTACAAG ATGCCAT	1

2278	CHIP2659	STM/STY	STM0116	STY0135	ATGTTTCG TTAGGTC GTGTTTCG	1
2279	CHIP2675	STM/STY	STM0149	STY0171	ATGGATA TTAGGCT ATGGATA	1
2280	CHIP2691	STM specil	STM0175		ATGCGCA TTACTGG ATGCGCA	1
2281	CHIP3245	STM/STY	STM3328	STY3507	ATGAAGC TTATTTTT ATGAAGC	1
2282	CHIP3261	STM/STY	STM3368	STY3548	ATGAGTC TTATGCG ATGAGTC	1
2283	CHIP3277	STM/STY	STM0629	STY0678	ATGTCTA TTACAGA ATGTCTA	1
2284	CHIP3293	STM specil	STM0654		ATGAATC TTAAGCG ATGAATC	1
2285	CHIP3309	STM/STY	STM0686	STY0724	ATGAGTG TTAAGCG ATGAGTG	1
2286	CHIP3325	STM/STY	STM0712	STY0752	ATGCAGC TTAGCAT GTGCAGC	1
2287	CHIP2727	STM/STY	STM0242	STY0269	ATGCGTA TTAGCCC ATGCGTA	1
2288	CHIP2751	STM/STY	STM1541	STY1521	ATGCTAA TTAGCCG ATGCTAA	1
2289	CHIP4008	STM/STY	STM2113	STY2326	ATGAATA TTACAGA ATGAATA	1
2290	CHIP3736	STM/STY	STM4591	STY4938	ATGGGCC TTAGTTA GTGGGCC	1
2291	CHIP3752	STM specil	STM0278		ATGGATA TTAAGCG ATGGATA	1
2292	CHIP3776	STM/STY	STM0321	STY0366	ATGAGTG TTATCGA ATGAGTG	1
2293	CHIP4026	STM specil	STM2707		ATGAATA TTATGGA ATGAATA	1
2294	CHIP3754	STM/STY	STM0283		ATGATGA TTATATA ATGATGA	1
2295	CHIP4066	STM specil	STM2759		ATGAGTA TTATTCG ATGAGTA	1
2296	CHIP4082	STM/STY	STM2781	STY2899	ATGACGA TTACCGG ATGACGA	1
2297	CHIP3810	STM/STY	STM1087	STY1115	ATGCTTC TTATTTA ATGCTTC	1
2298	CHIP3826	STM/STY	STM1111	STY1147	ATGGCTA TTAGGGA ATGGCTA	1
2299	CHIP4076	STM specil	STM2769		ATGAAGT TTAAGCG ATGAAGT	0
2300	CHIP4092	STM/STY	STM2798	STY2918	ATGTCCA TTAATGA ATGTCCA	1
2301	CHIP3820	STM/STY	STM1102	STY1136	ATGAAGA TTAAGCG ATGAAGA	1
2302	CHIP2396	STM/STY	STM3453	STY4345	ATGAAAT TTATTTT ATGAAAT	1
2303	CHIP2412	STM/STY	STM3489	STY4307	ATGAAGG TTAACCA ATGAAGG	1
2304	CHIP3876	STM/STY	STM1236	STY1276	ATGAAAC TTAAGCG ATGAAAC	1
2305	CHIP3822	STM/STY	STM1319	STY1792	ATGATGA TTAGTCA ATGATGA	1
2306	CHIP3838	STM/STY	STM1147	STY1184	ATGACAT TTAGGCA ATGACAT	1
2307	CHIP3854	STM/STY	STM1197	STY1236	ATGTCTA TTAGATC GTGTCTA	1
2308	CHIP3870	STM/STY	STM1217	STY1257	ATGTATC TTATTCA ATGTATC	1
2309	CHIP3886	STM/STY	STM1267	STY1854	ATGACTA TTAGATG ATGACTA	1
2310	CHIP2462	STM/STY	STM3578	STY4233	ATGAGCC TTAATGC ATGAGCC	1
2311	CHIP3521	STM specil	STM1030		ATGGATC TTATTCC GTGGATC	1
2312	CHIP3537	STM specil	STM4195		ATGCTCG TTAATTT ATGCTCG	1
2313	CHIP3561	STM/STY	STM4221	STY4417	ATGAAAA TTAGGCG ATGAAAA	1
2314	CHIP3577	STM/STY	STM4264	STY4462	ATGAGTC TTACCGC ATGAGTC	1
2315	CHIP3593	STM/STY	STM4297	STY4496	ATGAGTA TTAGCCG ATGAGTA	1
2316	CHIP3041	STM/STY	STM2376	STY2607	ATGAAAA TTAATGC ATGAAAA	1
2317	CHIP3571	STM/STY	STM4249	STY4445	ATGAAAA TTAGTAC ATGAAAA	1
2318	CHIP3587	STM/STY	STM4284	STY4483	ATGAAAC TTAGCCA ATGAAAC	1
2319	CHIP3603	STM/STY	STM4326	STY4685	ATGTCAA TTAAGCG ATGTCAA	1
2320	CHIP3435	STM/STY	STM0890	STY0923	ATGAAAA TTAAGCG ATGAAAA	1
2321	CHIP3459	STM specil	STM0916		ATGGGCC TTAAGGG ATGGGCC	1
2322	CHIP3475	STM/STY	STM0937	STY0933	ATGTTTT TTACGCG ATGTTTT	1
2323	CHIP4110	STM/STY	STM4066	STY3804	ATGAAGG TTATTTT ATGAAGG	1
2324	CHIP3558	STM specil	STM4217		ATGCGTT TTAATGA ATGCGTT	1
2325	CHIP4158	STM specil	STM2902		ATGGACA TTAATCA ATGGACA	1
2326	CHIP3606	STM/STY	STM4332	STY4692	ATGGCCT TTAGCGT ATGGCCT	1
2327	CHIP3430	STM/STY	STM0878	STY0911	ATGAATG TTATACC GTGAATG	1
2328	CHIP3454	STM specific			ATGAATT TTAGCGC ATGAATT	0
2329	CHIP0233	STM/STY	STM0202	STY0223	ATGAGTA TTACAGT ATGAGTA	1

2330	CHIP0249	STM/STY	STM0369	STY0401	ATGACAG TTAGCAA	ATGACAG	1
2331	CHIP2356	STM/STY	STM1347	STY1763	ATGAACA TTAAGA	ATGAACA	1
2332	CHIP2945	STM/STY	STM1935	STY2143	ATGCTGA TTAATTT	ATGCTGA	1
2333	CHIP2961	STM/STY	STM1993	STY2201	ATGGACT TTAAGT	ATGGACT	1
2334	CHIP2985	STM/STY	STM2271	STY2496	ATGAAAT TTAATG	ATGAAAT	1
2335	CHIP3659	STM specil	STM4433		ATGAAAA TTAAGA	ATGAAAA	1
2336	CHIP3003	STM/STY	STM2310	STY2541	ATGCATT TTAACG	ATGCATT	1
2337	CHIP3019	STM/STY	STM2336	STY2566	ATGTCGA TTAACA	ATGTCGA	1
2338	CHIP0196	STM/STY	STM2057	STY2262	ATGGCCA TTAGGCT	ATGGCCA	1
2339	CHIP0212	STM/STY	STM2924	STY3049	ATGAGTC TTAAGT	ATGAGTC	1
2340	CHIP0236	STM/STY	STM0206	STY0228	ATGGCTA TTAATTC	ATGGCTA	1
2341	CHIP0206	STM specil	STM2636		ATGGCTA TTAATTC	ATGGCTA	1
2342	CHIP2305	STM/STY	STM1340	STY1770	ATGGATA TTAACG	ATGGATA	1
2343	CHIP2321	STM/STY	STM1076	STY1098	ATGGAAC TTAATTC	ATGGAAC	1
2344	CHIP0262	STM/STY	STM2867	STY2988	ATGGTAT TTAATG	ATGGTAT	1
2345	CHIP0278	STM/STY	STM4094	STY3776	ATGAAAT TTAGGG	ATGAAAT	1
2346	CHIP2950	STM/STY	STM1945	STY2153	ATGCAAT TTAAGT	ATGCAAT	1
2347	CHIP0264	STM/STY	STM2898	STY3021	ATGAAGA TTAATTA	ATGAAGA	1
2348	CHIP2363	STM/STY	STM1431	STY1691	ATGTCGT TTAATG	ATGTCGT	1
2349	CHIP0481	STM/STY	STM1144	STY1181	ATGAAAC TTAATAC	ATGAAAC	1
2350	CHIP0497	STM/STY	STM3726	STY4068	ATGCCTG TTAATTC	ATGCCTG	1
2351	CHIP0529	STM/STY	STM3716	STY4079	ATGATTA TTAAGC	ATGATTA	1
2352	CHIP3976	STM/STY	STM1478	STY1590	ATGAAGC TTAATTA	ATGAAGC	1
2353	CHIP3970	STM/STY	STM1468	STY1654	ATGTCAA TTAACG	ATGTCAA	1
2354	CHIP3986	STM/STY	STM1498	STY1566	ATGAAAA TTAACG	ATGAAAA	1
2355	CHIP1318	STM/STY	STM3781	STY4001	ATGCCTG TTAATTC	ATGCCTG	1
2356	CHIP1334	STM/STY	STM0308	STY0353	ATGTCTG TTAACA	ATGTCTG	1
2357	CHIP1446	STM/STY	STM0363	STY0395	ATGTCTC TTAACG	ATGTCTC	1
2358	CHIP1374	STM/STY	STM2013	STY2216	ATGTTGC TTAATTC	ATGTTGC	1
2359	CHIP1376	STM/STY	STM2067	STY2276	ATGACAG TTAACA	ATGACAG	1
2360	CHIP1392	STM/STY	STM0133	STY0153	ATGTTTG TTAATTC	ATGTTTG	1
2361	CHIP1504	STM/STY	STM2323	STY2553	ATGCTAA TTAATG	ATGCTAA	1
2362	CHIP0494	STM/STY	STM0317	STY0362	ATGAGCC TTAACG	ATGAGCC	1
2363	CHIP0510	STM/STY	STM1980	STY2188	ATGACTC TTAATTC	ATGACTC	1
2364	CHIP3981	STM/STY	STM1487	STY1578	ATGAATA TTAATTC	ATGAATA	1
2365	CHIP0568	STM/STY	STM3447	STY4351	ATGCCAC TTAACCA	ATGCCAC	1
2366	CHIP1427	STM/STY	STM3847	STY3936	ATGAAAC TTAAGG	ATGAAAC	1
2367	CHIP1451	STM/STY	STM0387	STY0420	ATGACCA TTAATTT	ATGACCA	1
2368	CHIP1467	STM/STY	STM0441	STY0483	ATGGCAA TTAATTC	ATGGCAA	1
2369	CHIP1483	STM/STY	STM4269	STY4467	ATGATGC TTAAGT	ATGATGC	1
2370	CHIP1507	STM/STY	STM2312	STY2543	ATGATTG TTAATG	ATGATTG	1
2371	CHIP3209	STM/STY	STM3258	STY3441	ATGAGCC TTAACCC	ATGAGCC	1
2372	CHIP0963	STM/STY	STM4156		ATGTTAC TTAATTT	ATGTTAC	1
2373	CHIP0987	STM/STY	STM1381	STY1741	ATGAAAA TTAATTT	ATGAAAA	1
2374	CHIP1550	STM/STY	STM2512	STY2753	ATGTTAT TTAACG	ATGTTAT	1
2375	CHIP1582	STM/STY	STM0500	STY0546	ATGATAG TTAACCG	ATGATAG	1
2376	CHIP1998	STM/STY	STM4413	STY4772	ATGATGA TTAATTT	ATGATGA	1
2377	CHIP3180	STM/STY	STM3190	STY3368	ATGTCAG TTAACCG	ATGTCAG	1
2378	CHIP3196	STM/STY	STM3220	STY3400	ATGAGCC TTAATTC	ATGAGCC	1
2379	CHIP3212	STM/STY	STM3265	STY3448	ATGGCTC TTAATG	ATGGCTC	1
2380	CHIP3228	STM specil	STM3291		ATGAGTT TTAATCT	ATGAGTT	1
2381	CHIP0982	STM/STY	STM1773	STY1898	ATGAGGT TTAATG	ATGAGGT	1

2382	CHIP1006	STM/STY	STM2300	STY2530	ATGACGA TTATGAG ATGACGA	1
2383	CHIP1539	STM/STY	STM2447	STY2684	ATGAAAT(TTAACGA)ATGAAAT(	1
2384	CHIP1024	STM/STY	STM4471	STY4809	ATGACGG TTATCCG ATGACGG	1
2385	CHIP1603	STM/STY	STM2794	STY2914	ATGACCG TTACATT)ATGACCG	1
2386	CHIP2011	STM/STY	STM4512	STY4868	ATGCCTG TTACGCC ATGCCTG	1
2387	CHIP2027	STM/STY	STM4595	STY4944	ATGTTTA)TTACTGA' ATGTTTA)	1
2388	CHIP2043	STM/STY	STM3656		ATGCAAA TTACTION' ATGCAAA	1
2389	CHIP0611	STM/STY	STM1753	STY1297	ATGACGC TTATTCC(ATGACGC	1
2390	CHIP0627	STM/STY	STM1693	STY1368	ATGATTA' TTATCGT,ATGATTA'	1
2391	CHIP0643	STM/STY	STM4048	STY3825	ATGACCG TTACTGG ATGACCG	1
2392	CHIP1798	STM/STY	STM3998	STY3882	ATGACGA TTACTION)ATGACGA	1
2393	CHIP1830	STM/STY	STM0813	STY0848	ATGACTC TTATAGA' ATGACTC	1
2394	CHIP1862	STM/STY	STM0797	STY0830	ATGACTA TTAGGCG GTGACTA	1
2395	CHIP0758	STM/STY	STM0089	STY0104	ATGATCA TTAGTGA,ATGATCA	1
2396	CHIP1817	STM/STY	STM4040	STY3836	ATGAAAA)TTAACGC,ATGAAAA)	1
2397	CHIP1849	STM/STY	STM0641	STY0692	ATGAAGC TTACTCA)GTGAAGC	1
2398	CHIP1881	STM/STY	STM0261	STY0282	ATGAATC' TTAGAAC)ATGAATC'	1
2399	CHIP0591	STM/STY	STM0978	STY0978	ATGGAAT TTAGGCA ATGGAAT	1
2400	CHIP0711	STM/STY	STM2355	STY2585	ATGAAGA TTAATCG)ATGAAGA	1
2401	CHIP1284	STM/STY	STM2685	STY2871	ATGCGCT TTACTTC(ATGCGCT	1
2402	CHIP1300	STM/STY	STM0059	STY0068	ATGAAAA' TTATAAC(ATGAAAA'	1
2403	CHIP4681	STM/STY	STM0362	STY0394	ATGGTCG TTAACCG ATGGTCG	1
2404	CHIP4705	STM/STY	STM1854	STY1986	ATGCCGC TTAACCG ATGCCGC	1
2405	CHIP0146	STM/STY	STM3594	STY4209	ATGACCA TTAGCCT ATGACCA	1
2406	CHIP3323	STM/STY			ATGATAA TTATTAG(ATAAACA)	0
2407	CHIP1223	STM/STY	STM4303	STY4501	ATGATCA TTACTGA)ATGATCA,	1
2408	CHIP1239	STM/STY	STM1936	STY2144	ATGGAAG TTAATGG)ATGGAAG	0
2409	CHIP1263	STM/STY	STM1684	STY1377	ATGAGCG TTATTTCT)ATGAGCG	1
2410	CHIP0460	STM/STY	STM2637	STY2830	ATGATTA)TTACTGG ATGATTA)	1
2411	CHIP0476	STM/STY	STM1139	STY1176	ATGCCGC TTAGGAT ATGCCGC	1
2412	CHIP0109	STM/STY	STM2958	STY3096	ATGACCA TTAGCCT,ATGACCA	1
2413	CHIP4678	STM/STY	STM0324		ATGTTCC TTACTGA,TTGTTCC)	0
2414	CHIP0119	STM specil	STM4161		ATGCAGA TTAACCC)ATGCAGA	1
2415	CHIP4718	STM/STY	STM3460	STY4338	ATGGACC TTATGTG' ATGGACC	1
2416	CHIP3231	STM/STY	STM3297	STY3475	ATGGACA TTATTAC)GACAGGT	1
2417	CHIP0191	STM/STY	STM2052	STY2257	ATGAATA)TTATAGC,ATGAATA)	1
2418	CHIP1234	STM/STY	STM4279	STY4477	ATGAGTT TTATTGG)ATGAGTT)	1
2419	CHIP0865	STM/STY	STM1975	STY2183	ATGACTG TTACCGC ATGACTG	1
2420	CHIP0881	STM/STY	STM1512	STY1549	ATGTCGA TTAGCGA ATGTCGA	1
2421	CHIP0897	STM/STY	STM4130	STY3744	ATGATTA)TTAGAAG ATGATTA)	1
2422	CHIP0913	STM/STY	STM0609	STY0655	ATGCTCG TTATGCG ATGCTCG	1
2423	CHIP0929	STM/STY	STM1744	STY1306	ATGATGT TTAACGA' ATGATGT	1
2424	CHIP1780	STM/STY	STM4072	STY3798	ATGGCTC TTACAGG ATGGCTC	1
2425	CHIP0020	STM/STY	STM3967	STY3592	ATGACAA TTAGCCT ATGACAA	1
2426	CHIP0036	STM/STY	STM3951	STY3608	ATGGACC TTAACCC)ATGGACC	1
2427	CHIP1382	STM/STY	STM0085	STY0100	ATGATTT)TTATATC(ATTTATG)	1
2428	CHIP2182	STM/STY	STM3059	STY3215	ATGTCTA' TTAGTGT,TCTATAC)	1
2429	CHIP0868	STM/STY	STM1971	STY2179	ATGTCTA TTAGAGC ATGTCTA)	1
2430	CHIP0884	STM/STY	STM2430	STY2666	ATGAGTA TTACTGT' ATGAGTA	1
2431	CHIP0878	STM/STY	STM2432	STY2668	ATGATTT(TTAGCAG ATGATTT)	1
2432	CHIP1729	STM/STY	STM1717	STY1333	ATGCATT, TTATTGG)ATGCATT,	1
2433	CHIP1753	STM/STY	STM2951	STY3080	ATGCAGT TTAGGCG ATGCAGT	1

2434	CHIP1769	STM/STY	STM2949	STY3077	ATGTCCA TTATTTCG(ATGTCCA	1
2435	CHIP1793	STM/STY	STM4013	STY3866	ATGTATA TTAATGA ATGTATA	1
2436	CHIP0550	STM/STY	STM1912	STY2121	ATGATGC TTAAGCG ATGCGTA	1
2437	CHIP1204	STM/STY	STM1656	STY1409	ATGGAAG TTACAAC(GTGGAAAG	1
2438	CHIP2760	STM/STY	STM1554	STY1509	ATGATGA TTATTTCTATGATGA	1
2439	CHIP2880	STM/STY	STM1795	STY1922	ATGTACC TTAACCT(ATGTACC	1
2440	CHIP2896	STM/STY	STM1830	STY1959	ATGACCA TTATTTCTGTGACCA	1
2441	CHIP2912	STM/STY	STM1853	STY1984	ATGATGC TTATTGT/ATGATGC	1
2442	CHIP2936	STM/STY	STM1900	STY2108	ATGAAGG TTAGGCGGTGAAGG	1
2443	CHIP1127	STM/STY	STM0888	STY0921	ATGCTTG TTAATTG(ATGCTTG	1
2444	CHIP4411	STM/STY	STM0520	STY0568	ATGAGTG TTAAGCT(ATGAGTG	1
2445	CHIP1167	STM/STY	STM0998	STY1000	ATGTTTG TTACAGT/ATGTTTG	1
2446	CHIP4451	STM/STY	STM0589	STY0632	ATGCCAT TTAGACT/ATGCCAT	1
2447	CHIP4475	STM/STY	STM0338	STY0371	ATGTCCC TTATTCC ATGTCCC	1
2448	CHIP2763	STM/STY	STM1557	STY1507	ATGGATT TTATCCG ATGGATT	1
2449	CHIP2861	STM/STY	STM1746	STY1304	ATGATAG TTAATGT GTGATAG	1
2450	CHIP2877	STM/STY	STM1786	STY1913	ATGAATA TTATGCC ATGAATA	1
2451	CHIP2893	STM/STY	STM1827	STY1957	ATGGGCC TTATAGA ATGGGCC	1
2452	CHIP2821	STM/STY	STM1651	STY1419	ATGCAAA TTAATCT(ATGCAAA	1
2453	CHIP2837	STM/STY	STM1678	STY1385	ATGAAAC TTATTGC ATGAAAC	1
2454	CHIP4398	STM/STY	STM0497	STY0543	ATGTTTA(TTATTTCG(ATGTTTA	1
2455	CHIP4208	STM/STY	STM2984	STY3124	ATGAACG TTAATCC/ATGAACG	1
2456	CHIP4320	STM specific			ATGTTGA TTATCTC(TTGTTGA	0
2457	CHIP4336	STM/STY	STM0270	STY0291	ATGAAAA TTATGCG ATGAAAA	1
2458	CHIP4352	STM/STY	STM0408	STY0446	ATGGCAC TTACGGC GTGGCAC	1
2459	CHIP4280	STM/STY	STM3148	STY3319	ATGAGTC TTATGCT ATGAGTC	1
2460	CHIP4584	STM/STY	STM2830	STY2951	ATGACTG TTAAGTG ATGACTG	1
2461	CHIP2490	STM/STY	STM3633	STY4164	ATGGCTG TTACCGG ATGGCTG	1
2462	CHIP4626	STM specil	STM4540		ATGAACA TTAATAA(CTGAACA	1
2463	CHIP2530	STM/STY	STM3737	STY4057	ATGAATC TTATGGC ATGAATC	1
2464	CHIP4291	STM specil	STM3170		ATGCGAA TTAGCGA ATGCGAA	1
2465	CHIP4219	STM/STY	STM3009	STY3152	ATGCGCC TTAGTAT(ATGCGCC	1
2466	CHIP4243	STM/STY	STM3076	STY3236	ATGTCCT TTACAGC ATGTCCT	1
2467	CHIP4589	STM/STY	STM2845	STY2967	ATGACTG TTACGCC GTGACTG	1
2468	CHIP2493	STM/STY	STM3647	STY4155	ATGGCGA TTAAGTG ATGGCGA	1
2469	CHIP2509	STM/STY	STM3680	STY4116	ATGACGA TTAGAAC/ATGACGA	1
2470	CHIP2541	STM/STY	STM3768	STY4017	ATGACGC TTAATCT(ATGACGC	1
2471	CHIP4206	STM/STY	STM2979	STY3119	ATGAAAG TTACGAT ATGAAAG	1
2472	CHIP4230	STM/STY	STM3029	STY3177	ATGCTTC TTACAGG GTGCTTC	1
2473	CHIP4528	STM/STY	STM2200	STY2435	ATGGGTT TTAATTT(ATGGGTT	1
2474	CHIP4544	STM specil	STM2235		ATGCACA TTATGCT(ATGCACA	1
2475	CHIP1684	STM/STY	STM2208	STY2444	ATGCGGC TTATGCG ATGCGGC	1
2476	CHIP2084	STM/STY	STM3731	STY4063	ATGATGA TTAATTA(ATGATGA	1
2477	CHIP1916	STM/STY	STM3435	STY4363	ATGGAAA TTAGCGA ATGGAAA	1
2478	CHIP1940	STM/STY	STM4364	STY4721	ATGCGTA TTAGCGT ATGCGTA	1
2479	CHIP1902	STM/STY	STM3414	STY4384	ATGCGCC TTAATCT(ATGCGCC	1
2480	CHIP1926	STM/STY	STM0941	STY0937	ATGCGTG TTATGGC ATGCGTG	1
2481	CHIP1942	STM/STY	STM4366	STY4723	ATGGGTA TTACGCG ATGGGTA	1
2482	CHIP2150	STM/STY	STM3247	STY3429	ATGAAAA TTACCCT(ATGAAAA	1
2483	CHIP2166	STM/STY	STM3149	STY3320	ATGAACA TTATGAC GTGAACA	1
2484	CHIP1607	STM/STY	STM2833	STY2954	ATGACAC TTATTGA ATGACAC	1
2485	CHIP1960	STM/STY	STM4446	STY4785	ATGCCTT TTATGCT ATGCCTT	1

2486	CHIP1976	STM/STY	STM4579	STY4926	ATGGCAA TTATAAG GTGGCAA	1
2487	CHIP4485	STM specil	STM0353		ATGAGTC TTATGTC ATGAGTC	1
2488	CHIP1625	STM/STY	STM2844	STY2966	ATGTTAC TTAATCC GTGTTAC	1
2489	CHIP1641	STM/STY	STM2207	STY2443	ATGCACA TTAACA ATGCACA	1
2490	CHIP1657	STM/STY	STM2090	STY2300	ATGACAG TTAGAAA ATGACAG	1
2491	CHIP1659	STM/STY	STM2092	STY2302	ATGAAAG TTAATCC ATGAAAG	1
2492	CHIP4559	STM/STY	STM2152	STY2381	ATGAAAC TTAGTCA ATGAAAC	1
2493	CHIP1699	STM/STY	STM1765	STY1287	ATGTGGC TTAATTT ATGTGGC	1
2494	CHIP2099	STM/STY	STM3668	STY4130	ATGAAAG TTACAGC ATGAAAG	1
2495	CHIP2115	STM/STY	STM3575	STY4236	ATGCTTT TTACAGG ATGCTTT	1
2496	CHIP2131	STM/STY	STM3336	STY3516	ATGACTA TTATAAT ATGACTA	1
2497	CHIP2222	STM/STY	STM3226	STY3406	ATGGAAC TTATCCC ATGGAAC	1
2498	CHIP0363	STM/STY	STM1402	STY1718	ATGGTGC TTAATAA ATGGTGC	1
2499	CHIP0379	STM/STY	STM1116	STY1152	ATGGCGC TTAGAAC ATGGCGC	1
2500	CHIP3370	STM/STY	STM0791	STY0824	ATGAACA TTACATA ATGAACA	1
2501	CHIP3402	STM/STY	STM0837	STY0878	ATGAATA TTAGTTC ATGAATA	1
2502	CHIP2183	STM/STY	STM3057	STY3213	ATGAGCC TTAACGC ATGAGCC	1
2503	CHIP2273	STM/STY	STM1103	STY1137	ATGGGCA TTACGCA ATGGGCA	1
2504	CHIP3365	STM/STY	STM0787	STY0820	ATGCGGC TTATGAG ATGCGGC	1
2505	CHIP3397	STM/STY	STM0827	STY0865	ATGCGGT TTAATC ATGCGGT	1
2506	CHIP0303	STM/STY	STM1601	STY1463	ATGAAGA TTACGGG ATGAAGA	1
2507	CHIP2210	STM/STY	STM3256	STY3438	ATGCAGC TTAATTA ATGCAGC	1
2508	CHIP2234	STM/STY	STM3187	STY3365	ATGAAAC TTAGCCG ATGAAAC	1
2509	CHIP0237	STM/STY	STM2470	STY2706	ATGAATA TTAACTT ATGAATA	1
2510	CHIP0314	STM/STY	STM2304	STY2534	ATGGAAT TTATGAT ATGGAAT	1
2511	CHIP1417	STM/STY	STM3862	STY3916	ATGTTAA TTAATTT ATGTTAA	1
2512	CHIP1466	STM/STY	STM0424	STY0463	ATGCCGA TTAATCA ATGCCGA	1
2513	CHIP0582	STM/STY	STM2805	STY2930	ATGAGCA TTATGCG ATGAGCA	1
2514	CHIP4373	STM/STY	STM0454	STY0496	ATGCAAA TTATTGC ATGCAAA	1
2515	CHIP0917	STM specil	STM3353		ATGACTA TTAAGCA ATGACTA	0
2516	CHIP1910	STM/STY	STM3429	STY4369	ATGGCAG TTAATTT ATGGCAG	1
2517	CHIP1912	STM/STY	STM3431	STY4367	ATGACCG TTACAGA ATGACCG	1
2518	CHIP1953	STM/STY	STM4402	STY4760	ATGCGCC TTAGCCG ATGCGCC	1
2519	CHIP4560	STM/STY	STM2153	STY2382	ATGAAAA TTAGTCG ATGAAAA	1
2520	CHIP4507	STM/STY	STM1930	STY2139	ATGACTT TTAATC ATGACTT	1
2521	CHIP2267	STM/STY	STM1065	STY1086	ATGAAAA TTAGGGA ATGAAAA	1
2522	CHIP4652	STM/STY	STM2653	STY2846	ATGCGCC TTAGTAT ATGCGCC	1
2523	CHIP4637	STM/STY	STM1443	STY1679	ATGAAGT TTACCAC ATGAAGT	1
2524	CHIP4653	STM/STY	STM2664		ATGCGTT TTACATA ATGCGTT	1
2525	CHIP4598	STM/STY	STM4096	STY3774	ATGAAAA TTATTTG ATGAAAA	1
2526	CHIP4662	STM/STY	STM4302	STY4500a	ATGGACA TTAAGTA ATGGACA	1
2527	CHIP0099	STM/STY	STM0449	STY0491	ATGACAG TTATTCG ATGACAG	1
2528	CHIP0134	STM/STY	STM1728	STY1323	ATGGCCG TTAGGAA ATGGCCG	1
2529	CHIP3887	STM/STY	STM1272	STY1849	ATGGGAA TTACCAA ATGGGAA	1
2530	CHIP4321	STM/STY	STM2704		ATGAGCC TTAATGG ATGAGCC	1
2531	CHIP1366	STM/STY	STM0237	STY0262	ATGTCAA TTAGGAT ATGTCAA	1
2532	CHIP2616	STM/STY	STM0017	STY0017	ATGAAAA TTAGTGA ATGAAAA	1
2533	CHIP2563	STM/STY	STM2251	STY2477	ATGATGA TTAGCCA ATGATGA	0
2534	CHIP4680	STM/STY	STM0359	STY0391	ATGCTAA TTACGAT ATGCTAA	1
2535	CHIP4696	STM/STY	STM1093	STY1125	ATGACAC TTATCGT ATGACAC	1
2536	CHIP4715	STM/STY	STM3566	STY4246	ATGACGG TTATAAC ATGACGG	1
2537	CHIP2910	STM/STY	STM1851	STY1982	ATGATGA TTAGGCA ATGATGA	1

2538	CHIP2895	STM/STY	STM1829		ATGATGG TTAATAA1GTGATGG	1
2539	CHIP1096	STM specil	PSLT087		ATGCATA TTATTCT(ATGCATA	1
2540	CHIP1065	STM specil	PSLT036		ATGGAGT TTAAGTCTTTGGAGT	1
2541	CHIP1097	STM specil	PSLT088		ATGAAGA TTAGTCT(GTGAAGA	1
2542	CHIP0659	STM specil	PSLT039		ATGTTGA TTATGAG ATGTTGA	1
2543	CHIP1090	STM specil	PSLT081		ATGGCGA TTATTTT(ATGGCGA	1
2544	CHIP0604	STM specil	PSLT018		ATGAAAA TTATTTG1ATGAAAA	1
2545	CHIP0953	none	R460024		ATGGACG TTAGATC ATGGACG	0
2546	CHIP4882	none	R460018		ATGAAAA TTAGTTA ATGAAAA	0
2547	CHIP4908	none	R460063		ATGGTGT TTAATTT1ATGGTGT	0
2548	CHIP4903	none	R460056		ATGGAAC TTAACCA(ATGGAAC	0
2549	CHIP4891	none	R460036		ATGTTAG TTAATA1ATGTTAG	0
2550	CHIP4878	none	R460013		ATGAAAA TTAGTTA ATGAAAA	0
2551	CHIP4804	STM specific			GGCGTG(TCAGGTT GCGGTGC	0
2552	CHIP4808	STM/STY	STM0710	STY0750	CGCCGAC ACGCCTG CGCCGAC	1
2553	CHIP4812	STM/STY			CATTGCT CGGTATC CATTGCT	0
2554	CHIP4816	STM/STY	STM0848	STY0887	CGTGCTG TAAGGAT CGTGCTG	1
2555	CHIP4820	STM specific			TGAAGGA CTGGAAC TGAAGGA	0
2556	CHIP4824	STM/STY			CTGTTTCG CGATCGC CTGTTTCG	0
2557	CHIP5111	STY specific		STY2052	ATGGCGC TTACGCA ATGGCGC	0
2558	CHIP5217	STM/STY		STY3614	ATGCAAT TTAGCGA ATGCAAT	0
2559	CHIP5151	STY specific		STY2355	ATGTATA TTAATTAC(ATGTATA	0
2560	CHIP5167	STM/STY		STY2756	ATGCCCA TTAAGTCT GTGCCCA	0
2561	CHIP5181	STM/STY		STY3006	ATGCTTA TTATCCT ATGCTTA	0
2562	CHIP4918	STY specific		STY0206	ATGTTGT TTACAGC ATGTTGT	0
2563	CHIP5137	STY specific		STY2104	ATGAAAA TTAATCG(ATGAAAA	0
2564	CHIP5153	STY specific		STY2357	ATGATGT TTAAGG TTGATGT	0
2565	CHIP5168	STM/STY			ATGCAAG TTATTTG(ATGCAAG	0
2566	CHIP5183	STY specific		STY3065	ATGAGCT TTAGGTA ATGAGCT	0
2567	CHIP4920	STY specific		STY0295	ATGCCAA TTAATGC(ATGCCAA	0
2568	CHIP4936	STY specific		STY0332	ATGAAAA TTAAGCT ATGAAAA	0
2569	CHIP5147	STY specific		STY2350	ATGCCGA TTAACGC ATGCCGA	0
2570	CHIP5163	STY specific		STY2731	ATGACGT TTATCCT(ATGACGT	0
2571	CHIP5177	STY specific		STY2888	ATGGCTC TTACGCG ATGGCTC	0
2572	CHIP5009	STY specific		STY1364	ATGAAAA TTAATTT(ATGAAAA	0
2573	CHIP5025	STY specific		STY1600	ATGATAT TTATTGC(ATGATAT	0
2574	CHIP5041	STY specific		STY1617	ATGAGCG TTATCCT(ATGAGCG	0
2575	CHIP5165	STY specific		STY2749	ATGAAAG TTAGCTT(TTGAAAG	0
2576	CHIP5268	STM/STY		STY3924	ATGACAA TTACAGA ATGACAA	0
2577	CHIP5011	STY specific		STY1413	ATGCGTA TTACATC(ATGCGTA	0
2578	CHIP5027	STY specific		STY1602	ATGAAAT(TTACCAC ATGAAAT	0
2579	CHIP5043	STY specific		STY1619	ATGTCAG TTACAGG ATGTCAG	0
2580	CHIP5058	STY specific		STY1636	ATGGCTG TTAAGTCT ATGGCTG	0
2581	CHIP5373	STY specific		STY4630	ATGAAAA TTAGCTG ATGAAAA	0
2582	CHIP5307	STY specific		STY4535	ATGTTAA(TTAAGCC ATGTTAA	0
2583	CHIP5328	STY specific		STY4566	ATGCTTT(TTAATTC ATGCTTT	0
2584	CHIP5344	STY specific		STY4584	ATGCCCA TTAGCGA GTGCCCA	0
2585	CHIP5360	STM/STY		STY4601	ATGAATT TTATTCT/GTGAATT	0
2586	CHIP5292	STY specific		STY4413	ATGTTGT TTAATTG(ATGTTGT	0
2587	CHIP5363	STM/STY		STY4610	ATGAGCG TTATATC1ATGAGCG	0
2588	CHIP5377	STY specific		STY4637	ATGAATA TTATTTAC(ATGAATA	0
2589	CHIP5312	STY specific		STY4544	ATGCCTG TTAAGTCT(ATGCCTG	0

2590	CHIP5325	STY specific		STY4563	ATGAGTA TTACAGA ATGAGTA	0
2591	CHIP5341	STY specific		STY4580	ATGAACG TTATAGG ATGAACG	0
2592	CHIP5357	STY specific		STY4597	ATGTTCCG TTAGCGCATGTTCCG	0
2593	CHIP0834	STM/STY	STM1071	STY1092	ATGTACA TTAATGA ATGTACA	1
2594	CHIP0858	STM/STY	STM4227	STY4423	ATGGCTA TTAACCT ATGGCTA	1
2595	CHIP2673	STM/STY	STM0142	STY0164	ATGAGCG TTATCCC ATGAGCG	1
2596	CHIP2689	STM/STY	STM0173	STY0195	ATGATGC TTAACCTG ATGATGC	1
2597	CHIP2705	STM/STY	STM0192	STY0219	ATGCAGG TTAATAC ATGCAGG	1
2598	CHIP2729	STM/STY	STM0246	STY0273	ATGTCTG TTAATTA ATGTCTG	1
2599	CHIP3267	STM/STY	STM3375	STY3555	ATGCGAT TTAACCC ATGCGAT	1
2600	CHIP3291	STM/STY	STM0652	STY0703	ATGATGA TTAGGCC GTGATGA	1
2601	CHIP3307	STM/STY	STM0684	STY0722	ATGAGAC TTACAGA ATGAGAC	1
2602	CHIP0773	STM specil	STM3639		ATGAACC TTAGTTA ATGAACC	1
2603	CHIP2580	STM/STY	STM3839	STY3939A	ATGAAAC TTAACCTG ATGAAAC	1
2604	CHIP2596	STM/STY	STM3858	STY3925	ATGACTA TTAGACT ATGACTA	1
2605	CHIP0775	STM specil	STM3637		ATGTTGA TTAACCTC ATGTTGA	1
2606	CHIP2590	STM/STY	STM3850	STY3933	ATGTCTG TTACGCT ATGTCTG	1
2607	CHIP2606	STM/STY	STM3884	STY3894	ATGAACA TTAACCTG ATGAACA	1
2608	CHIP0839	STM/STY	STM3713	STY4082	ATGCTAA TTATCTA ATGCTAA	1
2609	CHIP0855	STM/STY	STM0225	STY0248	ATGAAAA TTATTTA GTGAAAA	1
2610	CHIP2662	STM/STY	STM0121	STY0141	ATGATCA TTATTTT ATGATCA	1
2611	CHIP4072	STM specil	STM2765		ATGCGTA TTAACCG ATGCGTA	1
2612	CHIP4088	STM/STY	STM2790	STY2910	ATGTATG TTAACCG ATGTATG	1
2613	CHIP2376	STM/STY	STM1484	STY1583	ATGCATA TTAATCC ATGCATA	1
2614	CHIP2392	STM/STY	STM3439	STY4359	ATGGAAT TTATGCC ATGGAAT	1
2615	CHIP2408	STM/STY	STM3480	STY4316	ATGTTTA TTATTGA ATGTTTA	1
2616	CHIP2424	STM/STY	STM3508	STY4288	ATGGCGA TTAATGG ATGGCGA	1
2617	CHIP2386	STM/STY	STM3411		ATGAGTC TTAACGA ATGAGTC	1
2618	CHIP2402	STM/STY	STM3462	STY4335	ATGCGCC TTATGAT ATGCGCC	1
2619	CHIP2418	STM/STY	STM3498	STY4298	ATGATTA TTAATGA ATGATTA	1
2620	CHIP3882	STM/STY	STM1254	STY1867	ATGACAA TTATTGT ATGACAA	1
2621	CHIP3898	STM/STY	STM1287	STY1829	ATGAGCA TTAACGA ATGAGCA	1
2622	CHIP4011	STM/STY	STM2118	STY2331	ATGATGA TTACCAG ATGATGA	1
2623	CHIP2436	STM specil	STM3528		ATGGGTG TTATTTT ATGGGTG	1
2624	CHIP2452	STM/STY	STM3554	STY4257	ATGGCTG TTATACA ATGGCTG	1
2625	CHIP4013	STM/STY	STM2120	STY2333	ATGAGAC TTACAGC ATGAGAC	1
2626	CHIP4029	STM/STY	STM2711	STY4616	ATGGATG TTACCCC GTGGATG	1
2627	CHIP3757	STM/STY	STM0286	STY0310	ATGCGCC TTACAGC ATGCGCC	1
2628	CHIP3773	STM/STY	STM0313	STY0358	ATGCGCA TTATAAC ATGCGCA	1
2629	CHIP4007	STM/STY	STM2112	STY2324	ATGTCTC TTATGAA ATGTCTC	1
2630	CHIP4023	STM/STY	STM2137		ATGGCAC TTACCTC ATGGCAC	1
2631	CHIP4047	STM specil	STM2740		ATGCCTA TTACGGG ATGCCTA	1
2632	CHIP4063	STM specil	STM2756		ATGGAAA TTATTCG ATGGAAA	1
2633	CHIP3791	STM specil	STM1048		ATGAGCA TTAGTCC ATGAGCA	1
2634	CHIP3807	STM/STY	STM1082	STY1106	ATGCATA TTAACGT ATGCATA	1
2635	CHIP3425	STM/STY	STM0869	STY0902	ATGGAAC TTAACCC GTGGAAC	1
2636	CHIP3441	STM specil	STM0897		ATGCCCT TTAGTTG TTGCCCT	1
2637	CHIP3457	STM specil	STM0914		ATGTCTC TTATCGG ATGTCTC	1
2638	CHIP3473	STM/STY	STM0932	STY0928	ATGAAGG TTAACGC ATGAAGG	1
2639	CHIP3113	STM/STY	STM2543	STY2789	ATGAAAT TTAATGA ATGAAAT	1
2640	CHIP3129	STM specil	STM2585		ATGATGA TTATTTA GTGATGA	1
2641	CHIP3099	STM/STY	STM2511	STY2752	ATGCTAC TTAGGAG ATGCTAC	1

2642	CHIP3499	STM/STY	STM0986	STY0987	ATGTCAT TTAGGGT ATGTCAT	1
2643	CHIP3524	STM specil	STM1033		ATGAAGA TTATACG GTGAAGA	1
2644	CHIP3556	STM specil	STM4215		ATGGAAA TTATTGA ATGGAAA	1
2645	CHIP4148	STM/STY	STM2851	STY2973	ATGAGTT TTAGGCT ATGAGTT	1
2646	CHIP4172	STM/STY	STM2922	STY3047	ATGGCAT TTATTTAC ATGGCAT	1
2647	CHIP3078	STM/STY	STM2474	STY2711	ATGTCCC TTAGCCT ATGTCCC	1
2648	CHIP3478	STM/STY	STM0945	STY0943	ATGCTCA TTAGTGC ATGCTCA	1
2649	CHIP3502	STM/STY	STM0989	STY0991	ATGGAAC TTAGGCA ATGGAAC	1
2650	CHIP3527	STM specil	STM1036		ATGGAGC TTATTTTT ATGGAGC	1
2651	CHIP3543	STM specil	STM4201		ATGGATA TTA CTCC ATGGATA	1
2652	CHIP3567	STM/STY	STM4243	STY4439	ATGCAGC TTAACGC ATGCAGC	1
2653	CHIP3665	STM/STY	STM4442	STY4781	ATGATGA TTAGCGT ATGATGA	1
2654	CHIP3009	STM/STY	STM2318	STY2548	ATGAACA TTACCAG ATGAACA	1
2655	CHIP3025	STM/STY	STM2344	STY2574	ATGCTGG TTAGAAA ATGCTGG	1
2656	CHIP2277	STM/STY	STM1117	STY1153	ATGAAAA TTATTTT ATGAAAA	1
2657	CHIP0218	STM/STY	STM1259	STY1861	ATGCTGA TTATTCC ATGCTGA	1
2658	CHIP2325	STM/STY	STM1112	STY1148	ATGGAAC TTATGCT ATGGAAC	1
2659	CHIP2319	STM/STY	STM1067	STY1088	ATGGTAG TTAGAAC ATGGTAG	1
2660	CHIP0260	STM/STY	STM2516	STY2761	ATGCAAG TTATTTG ATGCAAG	1
2661	CHIP0284	STM/STY	STM0026	STY0031	ATGCGTA TTATTCA ATGCGTA	1
2662	CHIP2956	STM/STY	STM1987	STY2194	ATGCCGC TTATTTCT GTGCCGC	1
2663	CHIP2972	STM/STY	STM2066	STY2275	ATGAAGA TTACGCC ATGAAGA	1
2664	CHIP2988	STM/STY	STM2275	STY2504	ATGTTAC TTACGCT ATGTTAC	1
2665	CHIP2958	STM/STY	STM1989	STY2196	ATGGCAG TTAGTGC TTGGCAG	1
2666	CHIP2974	STM/STY	STM2069	STY2278	ATGAAAC TTA AACCT ATGAAAC	1
2667	CHIP2990	STM/STY	STM2280	STY2509	ATGAAAG TTAGTGC ATGAAAG	1
2668	CHIP3006	STM/STY	STM2314	STY2545	ATGGACA TTAGGCG ATGGACA	1
2669	CHIP3030	STM/STY	STM2358	STY2588	ATGTATA TTAACGC ATGTATA	1
2670	CHIP2282	STM/STY	STM1187	STY1227	ATGTTCA TTATTTT ATGTTCA	1
2671	CHIP0553	STM/STY	STM1174	STY1213	ATGCTCG TTAGTTT ATGCTCG	1
2672	CHIP0569	STM/STY	STM3446	STY4352	ATGGCTC TTATTTAC ATGGCTC	1
2673	CHIP1332	STM/STY	STM0340	STY0373	ATGTCTA TTATTTAT ATGTCTA	1
2674	CHIP1348	STM/STY	STM0162	STY0184	ATGAAAA TTAGTCT ATGAAAA	1
2675	CHIP1468	STM/STY	STM0442	STY0484	ATGTTCG TTAGTTG ATGTTCG	1
2676	CHIP1484	STM/STY	STM4272	STY4470	ATGAATA TTAGAAC GTGAATA	1
2677	CHIP1470	STM/STY	STM4182	STY4400	ATGCCGA TTAATCC ATGCCGA	1
2678	CHIP1406	STM/STY	STM0139	STY0161	ATGCACA TTAGCAA ATGCACA	1
2679	CHIP0492	STM/STY	STM2301	STY2531	ATGATGA TTATTTAC ATGATGA	1
2680	CHIP3939	STM specil	STM1361		ATGAAAA TTATTGC ATGAAAA	1
2681	CHIP3955	STM/STY	STM1436	STY1686	ATGTCAT TTACAGA ATGTCAT	1
2682	CHIP0556	STM/STY	STM0399	STY0435	ATGACCC TTAGTGA ATGACCC	1
2683	CHIP0558	STM/STY	STM1411	STY1709	ATGCTAC TTAATAT ATGCTAC	0
2684	CHIP0574	STM/STY	STM4228	STY4424	ATGGATG TTAATCA ATGGATG	1
2685	CHIP1337	STM/STY	STM0322	STY0367	ATGCTGG TTACGCA ATGCTGG	1
2686	CHIP1361	STM/STY	STM0166	STY0188	ATGGCCC TTA CTGT ATGGCCC	1
2687	CHIP1377	STM/STY	STM2001	STY2208	ATGATTA TTAATGT ATGATTA	1
2688	CHIP1489	STM/STY	STM2403	STY2644	ATGACAA TTATAGA ATGACAA	1
2689	CHIP1508	STM/STY	STM2307	STY2537	ATGATCT TTATGGG ATGATCT	1
2690	CHIP1524	STM/STY	STM2295	STY2525	ATGCGTC TTATAAT ATGCGTC	1
2691	CHIP1548	STM/STY	STM2546	STY2792	ATGCATC TTAGCGC ATGCATC	1
2692	CHIP1025	STM/STY	STM4472	STY4811	ATGAAAC TTA CTGT ATGAAAC	1
2693	CHIP1588	STM/STY	STM0535	STY0583	ATGGCGA TTACAGG GTGGCGA	1

2694	CHIP3136	STM specil	STM2592		ATGCAGG TTACTGT(ATGCAGG	1
2695	CHIP3146	STM specil	STM2602		ATGGCAA TTACAGT ATGGCAA	1
2696	CHIP2022	STM/STY	STM4566	STY4917	ATGCCTG TTACTGA(ATGCCTG	1
2697	CHIP2038	STM/STY	STM3700	STY4095	ATGAACC TTAGTGG ATGAACC	1
2698	CHIP2054	STM/STY	STM3610	STY4193	ATGACTA TTACTGC ATGACTA	1
2699	CHIP2070	STM/STY	STM3514	STY4282	ATGTCAC TTAGCGT ATGTCAC	1
2700	CHIP1519	STM/STY	STM2406	STY2647	ATGATTT/TTAAAAA(ATGATTT/	1
2701	CHIP1553	STM/STY	STM2483	STY2721	ATGTCGT TTAGGCG ATGTCGT	1
2702	CHIP1030	STM/STY	STM0959	STY0957	ATGGTAG TTAGCGT ATGGTAG	1
2703	CHIP1593	STM/STY	STM0569	STY0618	ATGCAGG TTAATGC(ATGCAGG	1
2704	CHIP2001	STM/STY	STM4437	STY4776	ATGACAA TTACCCT ATGACAA	1
2705	CHIP2017	STM/STY	STM4544	STY4897	ATGGCTG TTACCCC ATGGCTG	0
2706	CHIP2033	STM/STY	STM3734	STY4060	ATGCGTC TTAATTT(ATGCGTC	1
2707	CHIP3191	STM/STY	STM3212	STY3391	ATGGTTA TTATAGC(ATGGTTA	1
2708	CHIP3207	STM/STY	STM3255	STY3437	ATGAAAA TTACAGA(ATGAAAA	1
2709	CHIP2083	STM/STY	STM3735	STY4059	ATGATCC TTATTCA(ATGATCC	1
2710	CHIP0689	STM/STY	STM4524		ATGAGTG TTAGGCT ATGAGTG	1
2711	CHIP0705	STM/STY	STM0117	STY0136	ATGCGCC TTAGCGC ATGCGCC	1
2712	CHIP0633	STM/STY	STM2888	STY3011	ATGTTTT/TTATTCG/ATGTTTT/	1
2713	CHIP1870	STM/STY	STM0736	STY0779	ATGCAGA TTAATCG ATGCAGA	1
2714	CHIP0676	STM/STY	STM4299	STY4498	ATGAGCA TTACGCT ATGAGCA	1
2715	CHIP0700	STM/STY	STM2675	STY2862	ATGAGCA TTAAAAA(ATGAGCA	1
2716	CHIP0716	STM/STY	STM2550	STY2796	ATGAGCA TTAGTGC ATGAGCA	1
2717	CHIP0732	STM/STY	STM2072	STY2281	ATGAGCT TTATGCT ATGAGCT	1
2718	CHIP0668	STM/STY	STM0320	STY0365	ATGAATA TTAGAAC ATGAATA	1
2719	CHIP0623	STM/STY	STM0494	STY0539	ATGAAAT TTACAGC ATGAAAT	1
2720	CHIP0639	STM/STY	STM1058	STY1079	ATGTACT TTAGATG ATGTACT	1
2721	CHIP0663	STM/STY	STM4319	STY4519	ATGAAAA TTAGTAA ATGAAAA	1
2722	CHIP1810	STM/STY	STM4063	STY3808	ATGAAAA TTAGCGT ATGAAAA	1
2723	CHIP1842	STM/STY	STM0668	STY0714	ATGAGCC TTATTCT(ATGAGCC	1
2724	CHIP1874	STM/STY	STM0723	STY0764	ATGAAAA TTAANAAT(ATGAAAA	1
2725	CHIP0178	STM/STY	STM2039	STY2244	ATGGCAG TTAGATG ATGGCAG	1
2726	CHIP1221	STM/STY	STM4309	STY4510	ATGAAAC TTACAGC ATGAAAC	1
2727	CHIP1237	STM/STY	STM1951	STY2159	ATGAGTG TTATTTCA(ATGAGTG	1
2728	CHIP1261	STM/STY	STM1677	STY1386	ATGGACA TTAGCGA ATGGACA	1
2729	CHIP0450	STM/STY			ATGACTG TTATCGG GTGACTG	0
2730	CHIP1301	STM/STY	STM0058	STY0067	ATGCAGA TTATATG(ATGCAGA	1
2731	CHIP4692	STM/STY	STM1268		ATGCTTA TTATATCA(ATGCTTA	1
2732	CHIP0133	STM/STY	STM4176	STY3709	ATGCAAC TTAATGG ATGCAAC	1
2733	CHIP0149	STM/STY	STM2536	STY2782	ATGACAG TTAGGCG ATGACAG	1
2734	CHIP0181	STM/STY	STM2042	STY2247	ATGAATA TTAATCG ATGAATA	1
2735	CHIP1224	STM/STY	STM4301	STY4500	ATGTTAT TTACAGG ATGTTAT	1
2736	CHIP1240	STM/STY	STM1931	STY2140	ATGAAAA TTACCAG ATGAAAA	1
2737	CHIP0407	STM/STY	STM1195	STY1234	ATGAGCT TTAACC(ATGAGCT	1
2738	CHIP1258	STM/STY	STM1664	STY1400	ATGACCA TTAACGG ATGACCA	1
2739	CHIP1282	STM/STY	STM2667	STY2854	ATGACAT TTAGGCA ATGACAT	1
2740	CHIP1298	STM/STY	STM0005	STY0005	ATGCTGA TTACTGC ATGCTGA	1
2741	CHIP1314	STM/STY	STM3794	STY3988	ATGGAGA TTATTCA(ATGGAGA	1
2742	CHIP4695	STM/STY	STM1474	STY1648	ATGAATC TTAANAAT TTGAATC	1
2743	CHIP1788	STM/STY	STM4037	STY3839	ATGCAGG TTAGACA(ATGCAGG	1
2744	CHIP0018	STM/STY	STM3969	STY3590	ATGGATA TTAACCT/GTGGATA	1
2745	CHIP0050	STM/STY	STM3936	STY3623	ATGACGG TTATTCT(ATGACGG	1

2746	CHIP2178	STM/STY	STM3068	STY3226	ATGTCGT TTAACAG,TCGTAAA	1
2747	CHIP0866	STM/STY	STM1976	STY2184	ATGGGCC TTATTTG(ATGGGCC	1
2748	CHIP0882	STM/STY	STM2429	STY2665	ATGTGCT TTATTTCC(ATGTGCT	0
2749	CHIP1719	STM/STY	STM1789	STY1916	ATGAATG TTATTTC(ATGAATG	1
2750	CHIP0908	STM/STY	STM3287	STY3468	ATGAACA TTACGCT ATGAACA	1
2751	CHIP1767	STM/STY	STM2970	STY3109	ATGGAAA TTAGCTG ATGGAAA	1
2752	CHIP1783	STM/STY	STM4052	STY3820	ATGATTG TTACATG,ATGATTG	1
2753	CHIP0013	STM/STY	STM3975	STY3584	ATGGCTG TTAGTCT ATGGCTG	1
2754	CHIP0029	STM/STY	STM3958	STY3601	ATGGTGA TTA CTCT ATGGTGA	1
2755	CHIP0031	STM/STY	STM3956	STY3603	ATGTCCG TTATCCC,ATGTCCG	1
2756	CHIP1563	STM/STY	STM0489	STY0533	ATGCGAA TTACATA CGAAAAC	1
2757	CHIP0087	STM/STY	STM4146	STY3739	ATGTCTA TTAGCCG ATGTCTA	0
2758	CHIP0871	STM/STY	STM1970	STY2178	ATGAGTA TTAGACA ATGAGTA	1
2759	CHIP0887	STM/STY	STM2947	STY3075	ATGAGCA TTATTCC(ATGAGCA	1
2760	CHIP1738	STM/STY	STM2999	STY3137	ATGTCAA TTACAGA GTGTCAA	1
2761	CHIP2840	STM/STY	STM1686	STY1375	ATGTTGA TTATTTT ATGTTGA	1
2762	CHIP4401	STM/STY	STM0501	STY0547	ATGCTCA TTATGCT ATGCTCA	1
2763	CHIP4417	STM/STY	STM0526	STY0574	ATGGGAT TAAATC/ATGGGAT	1
2764	CHIP4441	STM specil	STM0575		ATGTTGC TTAGCCC ATGTTGC	1
2765	CHIP1197	STM/STY	STM1636	STY1435	ATGATCG TTAGTAA(ATGATCG	1
2766	CHIP2849	STM/STY	STM1711	STY1340	ATGCAGC TTA CTTA(ATGCAGC	1
2767	CHIP2867	STM/STY	STM1761	STY1291	ATGCACT TTAGTGA ATGCACT	1
2768	CHIP2883	STM/STY	STM1801	STY1929	ATGGATG TTATTCT(TTGGATG	1
2769	CHIP2899	STM/STY	STM1834	STY1963	ATGTTTG TTAACCG ATGTTTG	1
2770	CHIP2915	STM/STY	STM1860	STY1995	ATGGACG TTAGTGC ATGGACG	1
2771	CHIP2939	STM/STY	STM1907	STY2115	ATGGCGT TTATTTG(ATGGCGT	1
2772	CHIP4396	STM/STY	STM0491	STY0535	ATGAAAT TTAGCGA ATGAAAT	1
2773	CHIP1138	STM/STY	STM1533	STY1530	ATGAATC, TTAATCT GTGAATC	1
2774	CHIP1154	STM/STY	STM1523	STY1537	ATGGACC TTAGTCG ATGGACC	1
2775	CHIP1186	STM/STY	STM0973	STY0973	ATGTCCG TTACATG(ATGTCCG	1
2776	CHIP4470	STM/STY	STM0621	STY0670	ATGACGC TTATTCC ATGACGC	1
2777	CHIP2766	STM/STY	STM1562	STY1501	ATGAATA TTATTTT(ATGAATA	1
2778	CHIP2782	STM/STY	STM1594	STY1471	ATGTTGG TTATTTT/ATGTTGG	1
2779	CHIP2472	STM/STY	STM3597	STY4205	ATGACCA TTAACGC ATGACCA	1
2780	CHIP2488	STM/STY	STM3631	STY4166	ATGCCGC TTA ACTT ATGCCGC	1
2781	CHIP4624	STM specil	STM4503		ATGGAAC TTAACCT/ATGGAAC	1
2782	CHIP2528	STM/STY	STM3730	STY4064	ATGATGA TTAACGT(ATGATGA	1
2783	CHIP4193	STM/STY	STM2956	STY3094	ATGGTCG TTACCCC ATGGTCG	1
2784	CHIP4305	STM/STY	STM2680	STY2867	ATGTCAG TTAGCTT,ATGTCAG	1
2785	CHIP4339	STM/STY	STM0382	STY0414	ATGGAAT TTATTGG ATGGAAT	1
2786	CHIP4363	STM/STY	STM0437		ATGGAAA TTATTCT ATGGAAA	1
2787	CHIP4379	STM/STY	STM0463	STY0507	ATGAAGA TTACGCG ATGAAGA	1
2788	CHIP2475	STM specil	STM3600		ATGAGCA TTATTGT(ATGAGCA	1
2789	CHIP2499	STM/STY	STM3660	STY4138	ATGTATA TTATGAC,ATGTATA	1
2790	CHIP2515	STM/STY	STM3691	STY4105	ATGAATA(TTACCAC ATGAATA	1
2791	CHIP4326	STM/STY	STM4389	STY4745	ATGCGAG TTAGCGA ATGCGAG	1
2792	CHIP4342	STM/STY	STM0388	STY0421	ATGATGC TTAAGTA ATGATGC	1
2793	CHIP4358	STM/STY	STM0421	STY0460	ATGCAAT, TTATTTA/ATGCAAT	1
2794	CHIP4286	STM/STY	STM3161	STY3333	ATGCGCT TTACACA, TTGCGCT	0
2795	CHIP4590	STM/STY	STM2847	STY2969	ATGAGCA TTATCGG ATGAGCA	1
2796	CHIP2502	STM/STY	STM3664	STY4134	ATGATGA TTAGCGG GTGATGA	1
2797	CHIP2132	STM/STY	STM3335	STY3515	ATGATGA TTAGGCC ATGATGA	1

2798	CHIP2148	STM/STY	STM3263	STY3446	ATGAAAC TTATTCTTATGAAAC	1
2799	CHIP2164	STM/STY	STM3153	STY3326	ATGGAAC TTAATGG ATGGAAC	1
2800	CHIP4489	STM/STY	STM0364	STY0396	ATGCCTT TAAAAAC ATGCCTT	1
2801	CHIP4513	STM/STY	STM2802	STY2925	ATGGAGC TTAGCGA ATGGAGC	1
2802	CHIP4529	STM/STY	STM2201	STY2436	ATGCATA TTATTCA ATGCATA	1
2803	CHIP4491	STM/STY	STM0373		ATGCACT TTACCAG ATGCACT	1
2804	CHIP1639	STM/STY	STM2183	STY2413	ATGCATC TTAGCCG ATGCATC	1
2805	CHIP1655	STM/STY	STM2085	STY2294	ATGAAAA TTATTTT ATGAAAA	1
2806	CHIP4555	STM/STY	STM2141	STY2370	ATGACTG TTAGGCG ATGACTG	1
2807	CHIP4571	STM/STY	STM2174	STY2404	ATGCGTG TTAGATT ATGCGTG	1
2808	CHIP1903	STM/STY	STM3417	STY4381	ATGGCAA TTATACG ATGGCAA	1
2809	CHIP1665	STM/STY	STM2108	STY2320	ATGAATA TTACCCC ATGAATA	1
2810	CHIP4565	STM/STY	STM2167	STY2397	ATGTCTT TTAATGC ATGTCTT	1
2811	CHIP1897	STM/STY	STM0262	STY0283	ATGAAAC TTAGCCA ATGAAAC	1
2812	CHIP2105	STM/STY	STM3624	STY4176	ATGACTC TTAGTGC ATGACTC	1
2813	CHIP2121	STM/STY	STM3546	STY4265	ATGAGTG TTATTTT ATGAGTG	1
2814	CHIP2137	STM/STY	STM3307	STY3486	ATGGATA TTATTCG ATGGATA	1
2815	CHIP1947	STM/STY	STM4385	STY4741	ATGAAAT TTAAGCT ATGAAAT	1
2816	CHIP1963	STM/STY	STM4468	STY4806	ATGATTA TTACGCC ATGATTA	1
2817	CHIP1979	STM/STY	STM4587	STY4934	ATGAATG TTATTGT ATGAATG	1
2818	CHIP0289	STM/STY	STM3740	STY4052	ATGGCTC TTAGTCT ATGGCTC	1
2819	CHIP2204	STM/STY	STM3298	STY3476	ATGACCC TTAACGC ATGACCC	1
2820	CHIP2220	STM/STY	STM3228	STY3408	ATGAAAT TTAGTAG ATGAAAT	1
2821	CHIP2191	STM/STY	STM3349	STY3529	ATGTTTG TTAGTTC ATGTTTG	1
2822	CHIP2207	STM/STY	STM3262	STY3445	ATGAACT TTAGACG ATGAACT	1
2823	CHIP2223	STM/STY	STM3225	STY3405	ATGGCTA TTAGCTA ATGGCTA	1
2824	CHIP0356	STM/STY	STM0628	STY0677	ATGATCA TAAAAAC ATGATCA	1
2825	CHIP0372	STM/STY	STM0170	STY0192	ATGAAAC TTAGTCC ATGAAAC	1
2826	CHIP3331	STM/STY	STM0722	STY0762	ATGAATG TTATAAC ATGAATG	1
2827	CHIP0351	STM/STY	STM4344	STY4704	ATGAGCC TTAGGCC ATGAGCC	1
2828	CHIP0367	STM/STY	STM1405	STY1715	ATGAAAC TTAGTCC ATGAAAC	1
2829	CHIP0383	STM/STY	STM1521	STY1539	ATGATGG TTAGTGG ATGATGG	1
2830	CHIP3350	STM specil	STM0762		ATGAGTC TTAATG ATGAGTC	1
2831	CHIP3382	STM/STY	STM0808	STY0843	ATGTTAT TTAGGCC ATGTTAT	1
2832	CHIP3414	STM specil	STM0855		ATGGAGC TTAATTT ATGGAGC	1
2833	CHIP3702	STM/STY	STM4521		ATGGAAT TTATTC ATGGAAT	1
2834	CHIP4264	STM specil	STM3117		ATGCTAT TTAACA ATGCTAT	1
2835	CHIP4383	STM/STY	STM0469	STY0512	ATGAAAC TTACCCC ATGAAAC	1
2836	CHIP4196	STM/STY	STM2965	STY3104	ATGACGA TTAGGAT ATGACGA	1
2837	CHIP4253	STM/STY	STM3088	STY3242	ATGGGTA TTAGGTC ATGGGTA	0
2838	CHIP0505	STM specil	STM1866		ATGTTTT TAAAAAG ATGTTTT	1
2839	CHIP3580	STM/STY	STM4271	STY4469	ATGGCTG TTATTC ATGGCTG	1
2840	CHIP3557	STM specil	STM4216		ATGAAAC TTAATGG ATGAAAC	1
2841	CHIP3581	STM/STY	STM4274	STY4472	ATGAATG TTATAAT ATGAATG	1
2842	CHIP3526	STM specil	STM1035		ATGGCTG TTAAGCC ATGGCTG	1
2843	CHIP1906	STM/STY	STM3422	STY4376	ATGGCAA TTAGTCC ATGGCAA	1
2844	CHIP0997	STM specil	STM1012		ATGAACA TTATTTT ATGAACA	0
2845	CHIP4670	STM/STY	STM4562	STY4912	ATGGTAA TTAGGGT ATGGTAA	1
2846	CHIP1174	STM/STY	STM1564	STY1496	ATGTTTA TTAGAGA ATGTTTA	1
2847	CHIP1207	STM/STY	STM2717	STY4622	ATGAAAG TTAGTCC ATGAAAG	1
2848	CHIP1152	STM/STY	STM0623	STY0672	ATGAAAA TTATTGG ATGAAAA	1
2849	CHIP1184	STM/STY	STM0953	STY0951	ATGGCCA TTAGCGA ATGGCCA	1

2850	CHIP1208	STM/STY	STM2716	STY4621	ATGACGC TTAACGA ATGACGC	1
2851	CHIP1407	STM/STY	STM0140	STY0162	ATGAGGT TTACGGT ATGAGGT	1
2852	CHIP1345	STM/STY	STM0280	STY0303	ATGAATG TTATTTATGTGAATG	1
2853	CHIP1362	STM/STY	STM0181	STY0199	ATGCTAA TTA CTGG GTGCTAA	1
2854	CHIP1452	STM/STY	STM0389	STY0422	ATGCCAA TTATGAT ATGCCAA	1
2855	CHIP2619	STM/STY	STM0020	STY0021	ATGAAAA TTAATAC ATGAAAA	1
2856	CHIP4285	STM/STY	STM3160	STY3332a	ATGGCTT TTACCCA GTGGCTT	1
2857	CHIP2911	STM/STY	STM1852	STY1983	ATGTTTCG TTA AAAA ATGTTTCG	1
2858	CHIP2777	STM/STY	STM1585	STY1480	ATGAAAA TTAGTCA ATGAAAA	1
2859	CHIP1560	STM/STY	STM0470	STY0513	ATGCAGG TTAACGT ATGCAGG	1
2860	CHIP2901	STM/STY	STM1838	STY1968	ATGTGTG TTAGAGT ATGTGTG	1
2861	CHIP2767	STM/STY	STM1565	STY1495	ATGAAAT TTA CTTT ATGAAAT	1
2862	CHIP3360	STM/STY	STM0780	STY0813	ATGCCCA TTAGCGG TTGCCCA	1
2863	CHIP0652	STM specil	PSLT041		ATGGATT TTAGAAG ATGGATT	1
2864	CHIP1107	STM specil	PSLT098		ATGCGTA TTATTGA GTGCGTA	1
2865	CHIP1092	STM specil	PSLT083		ATGATAA TTATGAT GTGATAA	1
2866	CHIP0622	STM specil	PSLT103		ATGAAAA TTAAGA ATGAAAA	1
2867	CHIP1069	STM specil	PSLT052		ATGGAAA TTACATA ATGGAAA	1
2868	CHIP1101	STM specil	PSLT092		ATGAAAC TTACAGA ATGAAAC	1
2869	CHIP4885	none	R460021		ATGAAAA TTAGTAG ATGAAAA	0
2870	CHIP4879	none	R460014		ATGAAAA TTA AATT ATGAAAA	0
2871	CHIP4872	none	R460007		ATGCTGG TTATATC ATGCTGG	0
2872	CHIP4873	none	R460008		ATGAGTA TTATTCC ATGAGTA	0
2873	CHIP4907	none	R460061		ATGTTAC TTACAAA ATGTTAC	0
2874	CHIP4901	none	R460054		ATGAACA TTATTCC ATGAACA	0
2875	CHIP4825	STM specil	STM2703		AACGTGC GATCGCA AACGTGC	1
2876	CHIP4829	STM specific			ATCAACG GCCGGG ATCAACG	0
2877	CHIP4833	STM specil	STM0912		CTGGGG/ ACGTTCG CTGGGG/	1
2878	CHIP4837	STM/STY			CGACGCC ACCGTTT CGACGCC	0
2879	CHIP4841	STM/STY			CACCCAT ATCCTGA CACCCAT	0
2880	CHIP4845	STM specific			ACCCCTG CACGTAT ACCCCTG	0
2881	CHIP5013	STY specific		STY1499	ATGTTGC TTATCTA TTGTTGC	0
2882	CHIP5029	STY specific		STY1605	ATGATTG TTATGCC ATGATTG	0
2883	CHIP5045	STY specific		STY1621	ATGGGAA TTACACCI ATGGGAA	0
2884	CHIP5060	STY specific		STY1639	ATGAATA TTA ACTGI ATGAATA	0
2885	CHIP5076	STY specific		STY2005	ATGGGGC TTA CTTT ATGGGGC	0
2886	CHIP5089	STY specific		STY2028	ATGGCTA TTA AAAC ATGGCTA	0
2887	CHIP5031	STY specific		STY1607	ATGAGTC TTA AACCT TTGAGTC	0
2888	CHIP5047	STY specific		STY1623	ATGAACG TTA CTCT ATGAACG	0
2889	CHIP5062	STM/STY		STY1649	ATGAAAA TTAGAAC ATGAAAA	0
2890	CHIP5078	STY specific		STY2007	ATGAGCA TTA CTTC ATGAGCA	0
2891	CHIP5091	STY specific		STY2030	ATGAGCA TTA ATCT TTGAGCA	0
2892	CHIP5200	STY specific		STY3192	ATGGATT TTA CTCT ATGGATT	0
2893	CHIP4954	STY specific		STY1014	ATGAGAT TTA AATC ATGAGAT	0
2894	CHIP4970	STY specific		STY1041	ATGGTAG TTAGTGC ATGGTAG	0
2895	CHIP4985	STY specific		STY1057	ATGGGGC TTA ATCT ATGGGGC	0
2896	CHIP5001	STY specific		STY1073	ATGGAAT TTATTGT ATGGAAT	0
2897	CHIP5202	STY specific		STY3277	ATGTCAC TTATTCC ATGTCAC	0
2898	CHIP5214	STM/STY	STM0768	STY3531	ATGGAAA TTACATT ATGGAAA	0
2899	CHIP4972	STM/STY			ATGAATC TTAGTGC ATGAATC	0
2900	CHIP4987	STY specific		STY1059	ATGTCTA TTA AAAC ATGTCTA	0
2901	CHIP5095	STY specific		STY2034	ATGGCGA TTA CTTA ATGGCGA	0

2902	CHIP5204	STY specific		STY3279	ATGGTCA TTAGGAG ATGGTCA	0
2903	CHIP5134	STY specific		STY2075	ATGTATA TTACGAG ATGTATA	0
2904	CHIP5150	STY specific		STY2353	ATGAAGT TTAAGT TTGAAGT	0
2905	CHIP5300	STY specific		STY4524	ATGCATG TTATTTCG GTGCATG	0
2906	CHIP5315	STY specific		STY4548	ATGTGTG TTATTGA ATGTGTG	0
2907	CHIP5329	STY specific		STY4568	ATGAGCC TTAAGC ATGAGCC	0
2908	CHIP5345	STY specific		STY4585	ATGAAAG TTAAGT ATGAAAG	0
2909	CHIP5361	STY specific		STY4602	ATGATGA TTAAGT ATGATGA	0
2910	CHIP5293	STY specific		STY4414	ATGTTTA TTAATGA ATGTTTA	0
2911	CHIP5364	STM/STY			ATGGCAG TTATTCA ATGGCAG	0
2912	empty	none			empty	0
2913	empty	none			empty	0
2914	empty	none			empty	0
2915	empty	none			empty	0
2916	empty	none			empty	0
2917	CHIP0842	STM/STY	STM1780	STY1906	ATGCCTG TTAATGC GTGCCTG	1
2918	CHIP2657	STM/STY	STM0106	STY0123	ATGCTAA TTACAAA ATGCTAA	1
2919	CHIP3249	STM/STY	STM3338	STY3519	ATGAGTA TTAAGT ATGAGTA	1
2920	CHIP3265	STM/STY	STM3372	STY3552	ATGGTGC TTATTGC ATGGTGC	1
2921	CHIP2713	STM/STY	STM0214	STY0237	ATGAATA TTAAGT ATGAATA	1
2922	CHIP3305	STM/STY	STM0682	STY0720	ATGACAC TTAAGT ATGACAC	1
2923	CHIP3275	STM/STY	STM3390	STY3569	ATGACGA TTATTGC ATGACGA	1
2924	CHIP2723	STM/STY	STM0235	STY0260	ATGCTGG TTAAGT ATGCTGG	1
2925	CHIP2739	STM/STY	STM1515		ATGAAAC TTATTTT ATGAAAC	1
2926	CHIP0781	STM/STY	STM1964	STY2172	ATGAAAA TTACGGC ATGAAAA	1
2927	CHIP0797	STM/STY	STM3710	STY4085	ATGATCA TTACGCG ATGATCA	1
2928	CHIP0813	STM/STY	STM2025	STY2229	ATGAAAA TTATGCC ATGAAAA	1
2929	CHIP0783	STM/STY	STM1963	STY2171	ATGAAAA TTACACG ATGAAAA	1
2930	CHIP0807	STM/STY	STM2031	STY2236	ATGCTAA TTAAGT ATGCTAA	1
2931	CHIP0823	STM/STY	STM1997	STY2205	ATGTTTCG TTAAGT ATGTTTCG	1
2932	CHIP2630	STM/STY	STM0046	STY0055	ATGAGTG TTAGGCA ATGAGTG	1
2933	CHIP2646	STM/STY	STM0082	STY0095	ATGAAAA TTATTTT ATGAAAA	1
2934	CHIP3238	STM/STY	STM3311	STY3490	ATGCAAA TTATTTT ATGCAAA	1
2935	CHIP3784	STM specil	STM0331		ATGAAAC TTAAGT ATGAAAC	1
2936	CHIP3800	STM/STY	STM1066	STY1087	ATGAAGA TTAGGCC ATGAAGA	1
2937	CHIP3824	STM/STY	STM1109	STY1143	ATGATGA TTACGGT ATGATGA	1
2938	CHIP3840	STM/STY	STM1151	STY1188	ATGAATA TTAAGT ATGAATA	1
2939	CHIP3856	STM/STY	STM1200	STY1239	ATGGGCA TTATGCC ATGGGCA	1
2940	CHIP3872	STM/STY	STM1220	STY1260	ATGTATT TTAGTCG ATGTATT	1
2941	CHIP3834	STM/STY	STM1131	STY1168	ATGGTTT TTAAGT ATGGTTT	1
2942	CHIP3850	STM/STY	STM1185	STY1226	ATGAAAA TTATTCT ATGAAAA	1
2943	CHIP3866	STM/STY	STM1212	STY1252	ATGAATA TTATGCT GTGAATA	1
2944	CHIP2442	STM specil	STM3533		ATGAAAA TTAGCAC ATGAAAA	1
2945	CHIP2458	STM/STY	STM3572	STY4239	ATGAAAA TTAATCA ATGAAAA	1
2946	CHIP3723	STM/STY	STM4567	STY4918	ATGACTG TTAGTAG ATGACTG	1
2947	CHIP3884	STM/STY	STM1264	STY1857	ATGACGC TTATGTG ATGACGC	1
2948	CHIP3900	STM/STY	STM1289	STY1827	ATGATTA TTAGCGT ATGATTA	1
2949	CHIP3725	STM specil	STM4571		ATGAAAT TTATTTT ATGAAAT	1
2950	CHIP3741	STM/STY	STM0002	STY0002	ATGCGAG TTAAGT ATGCGAG	1
2951	CHIP4053	STM specil	STM2746		ATGGAAC TTATTGT ATGGAAC	1
2952	CHIP4069	STM specil	STM2762		ATGTTAA TTAGTGA ATGTTAA	1
2953	CHIP3719	STM/STY	STM4549	STY4902	ATGAGTC TTATTGG ATGAGTC	1

2954	CHIP3735	STM/STY	STM4589	STY4936	ATGCGCA TTATGTG,ATGCGCA	1
2955	CHIP3759	STM/STY	STM0288	STY0317	ATGATGG TTATTGT,ATGATGG	1
2956	CHIP4071	STM specil	STM2764		ATGCAGG TTAATA,TTGCAGG	1
2957	CHIP4087	STM/STY	STM2789	STY2909	ATGATTC TTATTGG,ATGATTC	1
2958	CHIP3815	STM/STY	STM1095	STY1127	ATGGTTA TTAGCTA,ATGGTTA	1
2959	CHIP3049	STM/STY	STM2389	STY2621	ATGCGTC TTATTCC,ATGCGTC	1
2960	CHIP3065	STM/STY	STM2425	STY2661	ATGAAAC TTAAGCT,ATGAAAC	1
2961	CHIP3081	STM/STY	STM2478	STY2716	ATGAAAT TTATTTT,ATGAAAT	1
2962	CHIP3481	STM/STY	STM0950	STY0948	ATGTCAA TTAACGC,ATGTCAA	1
2963	CHIP3497	STM/STY	STM0981	STY0981	ATGACTG TTAAGCT,ATGACTG	1
2964	CHIP3513	STM/STY	STM1020	STY1034	ATGGCGC TTACCCC,ATGGCGC	0
2965	CHIP3483	STM/STY	STM0955	STY0953	ATGCGTC TTAATCC,ATGCGTC	1
2966	CHIP3123	STM/STY	STM2564	STY2811	ATGAGCC TTAGTGT,GTGAGCC	1
2967	CHIP4100	STM/STY	STM4031	STY3847	ATGCATG TTATTCT,GTGCATG	1
2968	CHIP4132	STM/STY	STM4109	STY3758	ATGGAAC TTACAGG,ATGGAAC	1
2969	CHIP4156	STM/STY	STM2868	STY2989	ATGCTGA TTACCAG,ATGCTGA	1
2970	CHIP3604	STM/STY	STM4327	STY4687	ATGGTCG TTAATCC,ATGGTCG	1
2971	CHIP3086	STM/STY	STM2487	STY2725	ATGCAA TTAATCT,ATGCAA	1
2972	CHIP3110	STM/STY	STM2535	STY2781	ATGATTC TTAGATG,GTGATTC	1
2973	CHIP3126	STM/STY	STM2570	STY2816	ATGGATA TTAATCC,ATGGATA	1
2974	CHIP4103	STM/STY	STM4044	STY3830	ATGATGA TTATAAC,GTGATGA	1
2975	CHIP4119	STM/STY	STM4086	STY3784	ATGACTG TTAAGCT,ATGACTG	1
2976	CHIP4143	STM/STY	STM4122	STY3751	ATGATGA TTAAGCC,ATGATGA	1
2977	CHIP2993	STM/STY	STM2284	STY2513	ATGAAAA TTAATTT,ATGAAAA	1
2978	CHIP3689	STM specil	STM4498		ATGAAAA TTACCGT,ATGAAAA	1
2979	CHIP3705	STM/STY	STM4526	STY4884	ATGAACA TTAAGCC,ATGAACA	1
2980	CHIP0202	STM/STY	STM1922	STY2131	ATGAAAA TTACCTC,ATGAAAA	1
2981	CHIP2301	STM/STY	STM1323	STY1788	ATGACGT TTACATG,ATGACGT	1
2982	CHIP0250	STM/STY	STM0370	STY0402	ATGTCTA TTAGATG,ATGTCTA	1
2983	CHIP0244	STM/STY	STM4237	STY4433	ATGAAAG TTACAAC,ATGAAAG	1
2984	CHIP0268	STM/STY	STM2861	STY2983	ATGACGA TTATTGT,ATGACGA	1
2985	CHIP2367	STM/STY	STM1445	STY1677	ATGATTA TTAGCGT,ATGATTA	1
2986	CHIP3636	STM/STY	STM4398	STY4754	ATGGTAG TTAACGC,ATGGTAG	1
2987	CHIP3652	STM specil	STM4425		ATGACTT TTATTTG,ATGACTT	1
2988	CHIP3668	STM/STY	STM4448	STY4787	ATGCGAT TTAACAA,GTGCGAT	1
2989	CHIP3638	STM/STY	STM4403	STY4761	ATGATTA TTAATCC,ATGATTA	1
2990	CHIP3654	STM specil	STM4427		ATGATGA TTAAGCT,ATGATGA	1
2991	CHIP3670	STM/STY	STM4454	STY4794	ATGAGCA TTAGACA,ATGAGCA	1
2992	CHIP3686	STM specil	STM4495		ATGAATA TTAATA,ATGAATA	1
2993	CHIP3710	STM specil	STM4536		ATGATTG TTAGGCA,ATGATTG	1
2994	CHIP0215	STM/STY	STM1256	STY1864	ATGAAAT TTATAGA,ATGAAAT	1
2995	CHIP3984	STM/STY	STM1493	STY1571	ATGAGAT TTACAGC,ATGAGAT	1
2996	CHIP1316	STM/STY	STM3801	STY3978	ATGCACG TTAGATG,ATGCACG	1
2997	CHIP1428	STM/STY	STM3826	STY3951	ATGTCAA TTATGGC,ATGTCAA	1
2998	CHIP1444	STM/STY	STM0360	STY0392	ATGGAGT TTATTCG,ATGGAGT	1
2999	CHIP1380	STM/STY	STM0077	STY0087	ATGTCCG TTATAAT,ATGTCCG	1
3000	CHIP1396	STM/STY	STM0151	STY0174	ATGGCCT TTAATTC,ATGGCCT	1
3001	CHIP1478	STM/STY	STM4238	STY4434	ATGCCGC TTACGAT,ATGCCGC	1
3002	CHIP1502	STM/STY	STM2330	STY2560	ATGATAA TTAATCA,ATGATAA	1
3003	CHIP3923	STM/STY	STM1342	STY1768	ATGTCTC TTAAGTG,ATGTCTC	1
3004	CHIP0516	STM/STY	STM0865	STY0898	ATGCTGG TTAGTCA,ATGCTGG	1
3005	CHIP3963	STM/STY	STM1458	STY1664	ATGAATA TTAAGCA,ATGAATA	1

3006	CHIP3987	STM/STY	STM1499	STY1565	ATGATGC TTAGATT GTGATGC	1
3007	CHIP3989	STM/STY	STM1501	STY1562	ATGATAC TTAGTAG GTGATAC	1
3008	CHIP1321	STM/STY	STM3791	STY3991	ATGACAA TTAGACA ATGACAA	1
3009	CHIP1433	STM/STY	STM2574	STY2820	ATGTCGG TTAATGA ATGTCGG	1
3010	CHIP1457	STM/STY	STM0404	STY0442	ATGCGCC TTACGGA ATGCGCC	1
3011	CHIP1473	STM/STY	STM4192	STY4409	ATGGCAA TTACCAC ATGGCAA	1
3012	CHIP1497	STM/STY	STM2368	STY2599	ATGTCCG TTAGTCC ATGTCCG	1
3013	CHIP0969	STM/STY	STM0347	STY0381	ATGATAA TTAAGCC ATGATAA	1
3014	CHIP1532	STM/STY	STM2527	STY2772	ATGGTTA TTAAAGG ATGGTTA	1
3015	CHIP1556	STM/STY	STM0460	STY0503	ATGCGAT TTACGCA GTGCGAT	1
3016	CHIP1572	STM/STY	STM0566	STY0614	ATGGATA TTAAGGT ATGGATA	1
3017	CHIP4741	STM/STY	STM1329	STY1782	ATGTTGA TTAAGGT ATGTTGA	1
3018	CHIP1996	STM/STY	STM4408	STY4767	ATGAGTT TTACGCG ATGAGTT	1
3019	CHIP2006	STM/STY	STM4476	STY4815	ATGACAA TTAAGGT ATGACAA	1
3020	CHIP3170	STM/STY	STM2648	STY2841	ATGAACG TTACGCT ATGAACG	1
3021	CHIP3186	STM/STY	STM3199	STY3378	ATGGATG TTATTGC ATGGATG	1
3022	CHIP3202	STM/STY	STM3241	STY3423	ATGAAGG TTACATC ATGAAGG	1
3023	CHIP3218	STM/STY	STM3274	STY3457	ATGGAGC TTAAGGT ATGGAGC	1
3024	CHIP0988	STM/STY	STM4099	STY3770	ATGGCTG TTAGTAT ATGGCTG	1
3025	CHIP1014	STM/STY	STM1380		ATGAATG TTACCGC ATGAATG	1
3026	CHIP1577	STM/STY	STM0471	STY0514	ATGACAG TTACCGG ATGACAG	1
3027	CHIP1601	STM/STY	STM2791	STY2911	ATGCAAC TTAAGGT ATGCAAC	1
3028	CHIP3149	STM specil	STM2605		ATGCAAC TTAGGTG GTGCAAC	1
3029	CHIP3165	STM/STY	STM2639	STY2832	ATGCAGA TTAAGGT ATGCAGA	1
3030	CHIP3181	STM/STY	STM3191		ATGTTTG TTACGCG ATGTTTG	1
3031	CHIP2051	STM/STY	STM3619	STY4181	ATGAGCG TTATTGT ATGAGCG	1
3032	CHIP3215	STM/STY	STM3269	STY3452	ATGAGTA TTACGCG ATGAGTA	1
3033	CHIP0577	STM/STY	STM1419	STY1701	ATGTCTT TTATGAA ATGTCTT	1
3034	CHIP0601	STM/STY	STM2499	STY2740	ATGACCG TTATTCA GTGACCG	1
3035	CHIP0713	STM/STY	STM1125	STY1160	ATGGCTA TTATTCC ATGGCTA	1
3036	CHIP0729	STM/STY	STM2808	STY2933	ATGAAAT TTAAGGT ATGAAAT	1
3037	CHIP1878	STM/STY	STM0271	STY0292	ATGAAAC TTAGTTT ATGAAAC	1
3038	CHIP0588	STM/STY	STM2882	STY3005	ATGGTTA TTAACGC ATGGTTA	1
3039	CHIP0612	STM/STY	STM3501	STY4295	ATGAGGC TTATGCC ATGAGGC	1
3040	CHIP0628	STM/STY	STM1694	STY1357	ATGCCTT TTATTCC ATGCCTT	1
3041	CHIP0644	STM/STY	STM4047	STY3826	ATGACTT TTATGCG ATGACTT	1
3042	CHIP0764	STM/STY	STM0550	STY0598	ATGCGCA TTAAGGT ATGCGCA	1
3043	CHIP0719	STM/STY	STM1224	STY1264	ATGCCGA TTATAAA ATGCCGA	1
3044	CHIP0647	STM/STY	STM1163	STY1201	ATGACTG TTATTTT ATGACTG	1
3045	CHIP0671	STM/STY	STM3470	STY4326	ATGAGCG TTAAGGT ATGAGCG	1
3046	CHIP1818	STM/STY	STM4038	STY3838	ATGAACA TTAGTCT GTGAACA	1
3047	CHIP1850	STM/STY	STM0640	STY0691	ATGAAAC TTATTGG ATGAAAC	1
3048	CHIP1882	STM/STY	STM0256	STY0277	ATGAAAG TTACCCC ATGAAAG	1
3049	CHIP3962	STM/STY	STM1457		ATGAAAT TTAATCC AAATCTG	1
3050	CHIP0394	STM/STY	STM2884	STY3007	ATGTTAA TTAAGCG ATGTTAA	1
3051	CHIP0410	STM/STY	STM1171	STY1210	ATGACTC TTAGATA ATGACTC	1
3052	CHIP0434	STM/STY	STM4254	STY4450	ATGGATA TTATTTG ATGGATA	1
3053	CHIP1285	STM/STY	STM2688	STY2874	ATGGGGT TTATCGG ATGGGGT	1
3054	CHIP1309	STM/STY	STM0035	STY0042	ATGAAAA TTAGCCC ATGAAAA	1
3055	CHIP0117	STM/STY	STM4139	STY3740	ATGAGTA TTATTTT ATGAGTA	1
3056	CHIP4716	STM/STY	STM3688	STY4108	ATGGCAA TTAACCT ATGGCAA	1
3057	CHIP0157	STM/STY	STM3865	STY3913	ATGGCTA TTAAGGT ATGGCTA	1

3058	CHIP4347	STM/STY	STM0395	STY0429	ATGTGCG TTATTAC T GCGTCT	1
3059	CHIP0397	STM/STY	STM2889	STY3012	ATGGATG TTACCCC ATGGATG	1
3060	CHIP0413	STM/STY	STM2064	STY2270	ATGAGGC TTATGCT ATGAGGC	1
3061	CHIP1242	STM/STY	STM1917	STY2126	ATGAGTA TTAATA CATGAGTA	1
3062	CHIP1266	STM/STY	STM1709	STY1342	ATGAAAT TTATTCC GTGAAAT	1
3063	CHIP0455	STM/STY	STM1391	STY1729	ATGAATG TTAATAC ATGAATG	1
3064	CHIP0471	STM/STY	STM3722	STY4072	ATGAGAG TTAACCA ATGAGAG	1
3065	CHIP4679	STM/STY	STM0348	STY0382	ATGAAAA TTAAGGA ATGAAAA	1
3066	CHIP0120	STM/STY	STM4162	STY3723	ATGAATG TTATTGA ATGAATG	1
3067	CHIP0002	STM/STY	STM3986	STY3574	ATGCATT TTATTCAC ATGCATT	1
3068	CHIP0493	STM/STY	STM2522	STY2767	ATGGCAA TTAGCCC GTGGCAA	1
3069	CHIP0058	STM/STY	STM3924	STY3631	ATGCAGC TTACCTG GTGCAGC	1
3070	CHIP0074	STM/STY	STM3905	STY3652	ATGGCGC TTAACCC ATGGCGC	1
3071	CHIP1701	STM/STY	STM1762	STY1290	ATGATTG TTAGTGC ATGATTG	1
3072	CHIP1717	STM/STY	STM1791	STY1918	ATGAGCA TTAGCGC ATGAGCA	1
3073	CHIP1727	STM/STY	STM1735	STY1316	ATGAAGC TTATGAT ATGAAGC	1
3074	CHIP0916	STM/STY	STM0145	STY0167	ATGCCGC TTAGCAA ATGCCGC	1
3075	CHIP0940	STM/STY	STM0426	STY0465	ATGCTAA TTATTTCA T GCTAA	1
3076	CHIP1791	STM/STY	STM4035	STY3842	ATGAAAC TTATTCA CATGAAAC	1
3077	CHIP0393	STM/STY	STM1395	STY1725	ATGGCAT TTAACCA ATGGCAT	1
3078	CHIP0761	STM/STY	STM0547	STY0594	ATGATAT TTACATA ATATACT	1
3079	CHIP0039	STM/STY	STM3948	STY3611	ATGAAGC TTATACG ATGAAGC	1
3080	CHIP0071	STM/STY	STM3909	STY3648	ATGGCTA TTAACCC ATGGCTA	1
3081	CHIP2699	STM/STY	STM0184	STY0209	ATGATGA TTATTTG CATGACAC	1
3082	CHIP1706	STM/STY	STM1831	STY1960	ATGGAGA TTAGTCC ATGGAGA	1
3083	CHIP1722	STM/STY	STM1784	STY1910	ATGGGAT TTAGACG ATGGGAT	1
3084	CHIP0911	STM/STY	STM2896	STY3019	ATGCTGC TTATATT CTGCTGC	1
3085	CHIP4385	STM/STY	STM0474	STY0517	ATGGACC TTAACAA ATGGACC	1
3086	CHIP1141	STM/STY	STM1539	STY1523	ATGCAAA TTATTTT ATGCAAA	1
3087	CHIP1157	STM/STY	STM1516	STY1544	ATGAATC TTAACAG ATGAATC	1
3088	CHIP1181	STM/STY	STM0966	STY0964	ATGGGAA TTAAC TG ATGGGAA	1
3089	CHIP4465	STM/STY	STM0611	STY0659	ATGAGTA TTATGCT ATGAGTA	1
3090	CHIP2753	STM/STY	STM1546	STY1515	ATGACAA TTAGTAT ATGACAA	1
3091	CHIP2771	STM specil	STM1569		ATGTCTA TTAAC TA ATGTCTA	1
3092	CHIP2787	STM/STY	STM1602	STY1462	ATGGTCT TTAAC TC GTGGTCT	1
3093	CHIP2803	STM specil	STM1626		ATGGGCA TTAAGG ATGGGCA	1
3094	CHIP2819	STM/STY	STM1648	STY1421	ATGAAGA TTAGTGC ATGAAGA	1
3095	CHIP2843	STM/STY	STM1697	STY1354	ATGCGCT TTAACAC ATGCGCT	1
3096	CHIP4404	STM/STY	STM0508	STY0554	ATGATAG TTATCCG ATGATAG	1
3097	CHIP4406	STM/STY	STM0511	STY0559	ATGATTG TTATCCA ATGATTG	1
3098	CHIP4422	STM/STY	STM0536	STY0584	ATGGTTA TTAAC TG ATGGTTA	1
3099	CHIP4454	STM/STY	STM0595	STY0639	ATGGATA TTAATGC ATGGATA	1
3100	CHIP1210	STM/STY	STM2710	STY4615	ATGAATG TTATACC ATGAATG	1
3101	CHIP2870	STM/STY	STM1768	STY1284	ATGATGC TTATTGC ATGATGC	1
3102	CHIP2886	STM/STY	STM1806	STY1935	ATGGAGA TTACGAA ATGGAGA	1
3103	CHIP4592	STM/STY	STM2729		ATGGTCT TTAATAC GTGGTCT	1
3104	CHIP4608	STM/STY	STM3012	STY3156	ATGTATT TTAGGCC ATGTATT	1
3105	CHIP2512	STM/STY	STM3683	STY4113	ATGACAA TTATTTCA ATGACAA	1
3106	CHIP2536	STM/STY	STM3752	STY4041	ATGAGTT TTAACGT ATGAGTT	1
3107	CHIP4289	STM/STY	STM3168	STY3342	ATGAGCG TTAACGC ATGAGCG	1
3108	CHIP4217	STM/STY	STM3005	STY3148	ATGTCCG TTACGGA ATGTCCG	1
3109	CHIP4251	STM specil	STM3085		ATGAGCA TTATTTG CATGAGCA	1

3110	CHIP4275	STM/STY	STM3137	STY3308	ATGGCTA TTATTTA/ATGGCTA	1
3111	CHIP4579	STM/STY	STM2810	STY2936	ATGGCTG TTA CTTA/ATGGCTG	1
3112	CHIP4595	STM/STY	STM2800	STY2923	ATGTTCT(TTACGCC ATGTTCT)	1
3113	CHIP4619	STM/STY	STM3382	STY3562	ATGGGCC TTATTTATATGGGCC	1
3114	CHIP4635	STM specil	STM1040		ATGAATA/ TTACCGA CTGAATA/	1
3115	CHIP4238	STM/STY	STM3055	STY3211	ATGGCCC TTACGCG ATGGCCC	1
3116	CHIP4254	STM/STY	STM3089		ATGACAG TTAACCC/ATGACAG	1
3117	CHIP4270	STM/STY	STM3124	STY3293	ATGTCAG TTACATA/ATGTCAG	1
3118	CHIP4382	STM/STY	STM0468	STY0511	ATGACAA TTATAGC/ GTGACAA	1
3119	CHIP2478	STM/STY	STM3609	STY4194	ATGCAAG TTACAAC/ATGCAAG	1
3120	CHIP4622	STM specil	STM4429		ATGGTGC TTAACGT/CTGGTGC	1
3121	CHIP1948	STM/STY	STM4387	STY4743	ATGCTGT TTAGGCT ATGCTGT	1
3122	CHIP1964	STM/STY	STM4474	STY4813	ATGAATA/ TTAGATA/ATGAATA/	1
3123	CHIP1980	STM/STY	STM4590	STY4937	ATGTTGA TTATTTCC/ATGTTGA	1
3124	CHIP1613	STM/STY	STM2841	STY2963	ATGAGTC TTATACC/ATGAGTC	1
3125	CHIP1637	STM/STY	STM2180	STY2410	ATGGCGA TTAACCC/ ATGGCGA	1
3126	CHIP1653	STM/STY	STM2083	STY2292	ATGAACG TTACAGC/ATGAACG	1
3127	CHIP1615	STM/STY	STM2801	STY2924	ATGTATT TTAGTCG ATGTATT	1
3128	CHIP4523	STM/STY	STM2193	STY2427	ATGCCAT TTATGGA/ ATGCCAT	1
3129	CHIP1663	STM/STY	STM2103	STY2315	ATGACAA TTAATAC/ATGACAA	1
3130	CHIP1679	STM/STY	STM2176	STY2406	ATGAAGC TTAGGCC/ATGAAGC	1
3131	CHIP1695	STM/STY	STM1799	STY1927	ATGAAAT TTACATG/ GTGAAAT	1
3132	CHIP2095	STM/STY	STM3674	STY4122	ATGAGCA TTATAAT/ATGAGCA	1
3133	CHIP4549	STM specil	STM2240		ATGAGAG TTAGGCC/ GTGAGAG	1
3134	CHIP1689	STM/STY	STM1842	STY1972	ATGGCAA TTAGAAG ATGGCAA	1
3135	CHIP2089	STM/STY	STM3690	STY4106	ATGCACA TTATTTTT/ATGCACA	1
3136	CHIP1921	STM/STY	STM3441	STY4357	ATGCAGA TTAACCC/ATGCAGA	1
3137	CHIP1937	STM/STY	STM4360	STY4717	ATGAATG TTAGTCT/ATGAATG	1
3138	CHIP2153	STM/STY	STM3240	STY3422	ATGATTA(TTATCCA/ATGATTA)	1
3139	CHIP2139	STM/STY	STM3301	STY3480	ATGAAGT TTAACGT/ ATGAAGT	1
3140	CHIP2155	STM/STY	STM3217	STY3395	ATGTCTT(TTAATGC/ATGTCTT)	1
3141	CHIP2171	STM/STY	STM3139	STY3310	ATGAGCA TTACGCT/ ATGAGCA	1
3142	CHIP2180	STM/STY	STM3066	STY3222	ATGATAT(TTAGTTG/ GTGATAT)	1
3143	CHIP0321	STM/STY	STM1178	STY1217	ATGGATC TTAACTC/ATGGATC	1
3144	CHIP2228	STM/STY	STM3207	STY3386	ATGAGTG TTAATCT/ATGAGTG	1
3145	CHIP0308	STM/STY	STM1386	STY1735	ATGCGCC TTATCCA/ATGCGCC	1
3146	CHIP0324	STM specil	STM3753		ATGAGAA TTA AAAAG/ ATGAGAA	0
3147	CHIP2231	STM/STY	STM3194	STY3372	ATGGATT TTATTTG/ATGGATT	1
3148	CHIP2247	STM/STY	STM3103	STY3256	ATGCAAA TTAGCCA/ ATGCAAA	1
3149	CHIP2263	STM/STY	STM3051	STY3207	ATGAGAA TTA AAGC/ ATGAGAA	1
3150	CHIP3347	STM/STY	STM0759	STY0800	ATGAAAA TTA CTGT/ATGAAAA	1
3151	CHIP2242	STM/STY	STM3136	STY3307	ATGGAAC TTA CTTAC/ATGGAAC	1
3152	CHIP2258	STM/STY	STM3072	STY3230	ATGGCGC TTAGCGT/ ATGGCGC	1
3153	CHIP2274	STM/STY	STM1105	STY1139	ATGCTCG TTACACA/ATGCTCG	1
3154	CHIP3358	STM/STY	STM0777	STY0810	ATGGCTT TTAGTCT/ ATGGCTT	1
3155	CHIP3390	STM/STY	STM0818	STY0853	ATGAAAA TTA CTCA/ ATGAAAA	1
3156	CHIP3422	STM/STY	STM0863	STY0896	ATGACGC TTACGAG/ ATGACGC	1
3157	CHIP4381	STM/STY	STM0466	STY0510	ATGCTGG TTAATAC/ATGCTGG	1
3158	CHIP4343	STM/STY	STM0391	STY0424	ATGCTAC TTACAAA/ ATGCTAC	1
3159	CHIP4273	STM/STY	STM3127	STY3296	ATGCAAG TTAACCC/ ATGCAAG	1
3160	CHIP4432	STM specil	STM0561		ATGCTGC TTAACGG/ ATGCTGC	1
3161	CHIP4433	STM specil	STM0562		ATGCGGC TTATGCC/ GTGCGGC	1

3162	CHIP1527	STM/STY	STM2541	STY2787	ATGTCGA TTACACG ATGTCGA	1
3163	CHIP4508	STM/STY	STM1983	STY2191	ATGAAGG TTAGTCC ATGAAGG	1
3164	CHIP4541	STM specil	STM2231		ATGCTGG TTAGCTCG TTGCTGG	1
3165	CHIP4518	STM/STY	STM2185	STY2415	ATGATCA TTAACGA ATGATCA	1
3166	CHIP4495	STM/STY	STM0825	STY0862	ATGGCAT TTAGCGT ATGGCAT	1
3167	CHIP1962	STM/STY	STM4450	STY4789	ATGACTT TTAAGC ATGACTT	1
3168	CHIP2013	STM/STY	STM4523	STY4880	ATGACTA TTAGCTTA ATGACTA	1
3169	CHIP4173	STM/STY	STM2923	STY3048	ATGATTT TTAGCGT ATGATTT	1
3170	CHIP2309	STM/STY	STM1369	STY1754	ATGGAAT TTATACC ATGGAAT	1
3171	CHIP2327	STM/STY	STM1123	STY1158	ATGAAAC TTAACCG ATGAAAC	1
3172	CHIP2359	STM/STY	STM1377	STY1745	ATGAATC TTAGCTTA ATGAATC	1
3173	CHIP2496	STM/STY	STM3652	STY4150	ATGCTAT TTAGACG ATGCTAT	1
3174	CHIP2521	STM/STY	STM3703	STY4092	ATGCAAG TTAGCTTA ATGCAAG	1
3175	CHIP2624	STM/STY	STM0037	STY0045	ATGAATA TTAGTTA GTGAATA	1
3176	CHIP2640	STM/STY	STM0071	STY0081	ATGGATA TTAGTTA ATGGATA	1
3177	CHIP2625	STM/STY	STM0038	STY0046	ATGAATA TTAGCGC ATGAATA	1
3178	CHIP2649	STM/STY	STM0087	STY0102	ATGATCA TTAACGA ATGATCA	1
3179	CHIP2651	STM/STY	STM0091	STY0106	ATGAGCA TTAGTTG ATGAGCA	1
3180	CHIP2644	STM/STY	STM0080	STY0091	ATGCAAA TTAGTTA ATGCAAA	1
3181	CHIP0995	STM specil	STM2630		ATGCTTA TTAGCTTA ATGCTTA	1
3182	CHIP2809	STM/STY	STM1632	STY1439	ATGTATC TTAGTAA ATGTATC	1
3183	CHIP2842	STM/STY	STM1689	STY1372	ATGAGCC TTAGCGC ATGAGCC	1
3184	CHIP2835	STM/STY	STM1673	STY1391	ATGCCAG TTAGCAG ATGCCAG	1
3185	CHIP2805	STM specil	STM1628		ATGCCGC TTAGTTA ATGCCGC	1
3186	CHIP3184	STM/STY	STM3196	STY3375	ATGGCGT TTAGCTT ATGGCGT	1
3187	CHIP1067	STM specil	PSLT044		ATGAGCA TTAGACC ATGAGCA	1
3188	CHIP1060	STM specil	PSLT028		ATGCAGT TTAGATC ATGCAGT	1
3189	CHIP1100	STM specil	PSLT091		ATGAAAT TTAGTTT GTGAAAT	1
3190	CHIP0654	STM specil	PSLT037		ATGAGAG TTAGTCG ATGAGAG	1
3191	CHIP1077	STM specil	PSLT063		ATGTACG TTAGTAG ATGTACG	1
3192	CHIP1109	STM specil	PSLT100		ATGCAGC TTAGTGC ATGCAGC	1
3193	CHIP4892	none	R460037		ATGGAAA TTAGTCA ATGGAAA	0
3194	CHIP4893	none	R460038		ATGAAGG TTAGCGC ATGAAGG	0
3195	CHIP4880	none	R460015		ATGGCAT TTAGCA ATGGCAT	0
3196	CHIP4887	none	R460032		ATGACTG TTAGCAA ATGACTG	0
3197	CHIP4874	none	R460009		ATGGAAC TTAGCTA ATGGAAC	0
3198	CHIP4750	STM/STY	PSLT010		CGGTCTC CATAACG CCGTCTC	1
3199	CHIP4826	STM specific			CTTGGAC TTAGCTG CTTGGAC	0
3200	CHIP4830	STM specific			CACTGGA GTTCTGC CACTGGA	0
3201	CHIP4834	STM specific			CTCTGAA CCGATAC CTCTGAA	0
3202	CHIP4838	STM specific			CCGTCCG ATGCGAT CCGTCCG	0
3203	CHIP4842	STM specil	STM0922		GGAAAAG CCATCCG GGAAAAG	1
3204	CHIP4846	STM/STY	STM3113	STY3268	AGTTCTG TTAGCGA AGTTCTG	1
3205	CHIP4926	STY specific		STY0311	ATGGGTA TTAGTTT ATGGGTA	0
3206	CHIP4942	STY specific		STY0350	ATGGTTA TTAGATA ATGGTTA	0
3207	CHIP4958	STY specific		STY1018	ATGAACG TTAGTCC ATGAACG	0
3208	CHIP4974	STY specific		STY1045	ATGGTAT TTAGTTA ATGGTAT	0
3209	CHIP4989	STY specific		STY1061	ATGAACG TTAGACC ATGAACG	0
3210	CHIP5097	STY specific		STY2036	ATGACTG TTAGATC ATGACTG	0
3211	CHIP4944	STM/STY		STY0476	ATGAAAA TTAGCA GTGAAAA	0
3212	CHIP4960	STY specific		STY1020	ATGAAC TTAGCGA ATGAAC	0
3213	CHIP4976	STY specific		STY1047	ATGACTT TTAGGCC ATGACTT	0

3214	CHIP4991	STY specific		STY1063	ATGACAA TTACTCC(ATGACAA	0
3215	CHIP5099	STY specific		STY2039	ATGGCAC TTATTTG(ATGGCAC	0
3216	CHIP5114	STY specific		STY2055	ATGTTAA(TTAGGCG ATGTTAA	0
3217	CHIP5049	STY specific		STY1625	ATGGCAG TTAGTTG(ATGGCAG	0
3218	CHIP5064	STM/STY		STY1672	ATGAAGA TTATGTT(ATGAAGA	0
3219	CHIP5080	STY specific		STY2016	ATGGCCC TTATGCT(ATGGCCC	0
3220	CHIP5093	STY specific		STY2032	ATGAGTT TTAAGAG ATGAGTT	0
3221	CHIP5116	STY specific		STY2057	ATGCACA TTATATA GTGCACA	0
3222	CHIP5132	STY specific		STY2073	ATGAGCA TTAGATG ATGAGCA	0
3223	CHIP5066	STY specific		STY1760	ATGAAAA TTAGGCG ATGAAAA	0
3224	CHIP4995	STY specific		STY1067	ATGTCGG TTATGCA ATGTCGG	0
3225	CHIP5103	STY specific		STY2043	ATGAAGC TTATCCG ATGAAGC	0
3226	CHIP5118	STY specific		STY2059	ATGACTA TTATTCAT TTAGCTA	0
3227	CHIP5224	STY specific		STY3660	ATGAATT TTATTTA ATGAATT	0
3228	CHIP5239	STY specific		STY3676	ATGACAG TTAGCAA ATGACAG	0
3229	CHIP5386	STY specific		STY4654	ATGAATA TTAGTGA ATGAATA	0
3230	CHIP5396	STY specific		STY4671	ATGAATT(TTAATTC ATGAATT	0
3231	CHIP5412	STY specific		STY4824	ATGTTTA(TTAATCT ATGTTTA	0
3232	CHIP5427	STY specific		STY4849	ATGACGC TTAAGGG GTGACGC	0
3233	CHIP5280	STM/STY			ATGTCTG TTATTGC ATGTCTG	0
3234	CHIP5301	STY specific		STY4525	ATGGTAC TTAACCA GTGGTAC	0
3235	buffer	none			buffer	0
3236	empty	none			empty	0
3237	empty	none			empty	0
3238	empty	none			empty	0
3239	empty	none			empty	0
3240	empty	none			empty	0
3241	CHIP0850	STM/STY	STM1227	STY1267	ATGGATA TTACTGC ATGGATA	1
3242	CHIP2665	STM/STY	STM0126	STY0146	ATGGCTG TTAACCT ATGGCTG	1
3243	CHIP2681	STM specil	STM0159		ATGGGAA TTATCTT ATGGGAA	1
3244	CHIP2697	STM/STY	STM0182	STY0200	ATGAAAC TTAGTGA ATGAAAC	1
3245	CHIP2721	STM/STY	STM0233	STY0257	ATGGGAT TTACAAT ATGGGAT	1
3246	CHIP2737	STM/STY	STM1513	STY1548	ATGGCAG TTAATTG ATGGCAG	1
3247	CHIP2707	STM/STY	STM0194	STY0221	ATGAGCA TTACCGA GTGAGCA	1
3248	CHIP3299	STM/STY	STM0660	STY0705	ATGTTTT(TTACGCC ATGTTTT	1
3249	CHIP3315	STM/STY	STM0696	STY0734	ATGAAAT TTAGCGT ATGAAAT	1
3250	CHIP2572	STM specil	STM3827		ATGGTGA TTATCCG ATGGTGA	1
3251	CHIP2588	STM specil	STM3846		ATGACGG TTATTTG TTAGCGG	1
3252	CHIP2604	STM/STY	STM3879	STY3899	ATGGCTC TTAGCAT ATGGCTC	1
3253	CHIP2582	STM/STY	STM3841		ATGGCGC TTAGTGT ATGGCGC	1
3254	CHIP2598	STM/STY	STM3860	STY3923	ATGACAA TTAAGGC ATGACAA	1
3255	CHIP2614	STM/STY	STM0014	STY0014	ATGGGAT TTAGCGA ATGGGAT	1
3256	CHIP0847	STM/STY	STM2399	STY2637	ATGTTAA(TTAACAA ATGTTAA	1
3257	CHIP0863	STM/STY	STM0775	STY0808	ATGACCC TTATACT ATGACCC	1
3258	CHIP2670	STM/STY	STM0137	STY0157	ATGAAAA TTAAGC ATGAAAA	1
3259	CHIP4080	STM/STY			ATGTTTG TTAACA TTGTTTG	0
3260	CHIP3808	STM/STY	STM1085	STY1112	ATGGATC TTAGTCG ATGGATC	1
3261	CHIP2384	STM/STY	STM3402	STY4395	ATGAATA TTACCC GTGAATA	1
3262	CHIP2400	STM/STY	STM3458	STY4340	ATGTCTC TTAATAG ATGTCTC	1
3263	CHIP2416	STM/STY	STM3496	STY4300	ATGCATA TTACATC ATGCATA	1
3264	CHIP3880	STM/STY	STM1252	STY1869	ATGAAAT TTATACC ATGAAAT	1
3265	CHIP2394	STM/STY	STM3450	STY4348	ATGAAAC TTAGAAT ATGAAAC	1

3266	CHIP2410	STM/STY	STM3487	STY4309	ATGGCAG TTAGTTG ATGGCAG	1
3267	CHIP3874	STM/STY	STM1233	STY1273	ATGGCAA TTATAAC GTGGCAA	1
3268	CHIP3890	STM/STY	STM1275	STY1843	ATGAAAT TTA CTTT ATGAAAT	1
3269	CHIP4003	STM/STY	STM2104	STY2316	ATGACAA TTA CTGA ATGACAA	1
3270	CHIP4019	STM/STY	STM2133	STY2346	ATGGAAA TTATTGC ATGGAAA	1
3271	CHIP2444	STM/STY	STM3537	STY4273	ATGACGC TTATCCT ATGACGC	1
3272	CHIP2460	STM/STY	STM3574	STY4237	ATGAGTA TTATTCG ATGAGTA	1
3273	CHIP4021	STM/STY	STM2135	STY2348	ATGGACA TTACACC ATGGACA	1
3274	CHIP4037	STM specil	STM2724		ATGAAAT TTA AATC ATGAAAT	1
3275	CHIP3765	STM/STY	STM0296	STY0328	ATGGCTC TTAGCGC ATGGCTC	1
3276	CHIP3781	STM specil	STM0328		ATGTGTA TTAGAAA TTGTGTA	1
3277	CHIP4015	STM/STY	STM2124	STY2337	ATGTTTA TTA CTGA ATGTTTA	1
3278	CHIP4031	STM/STY			ATGAATC TTA CTGC ATGAATC	0
3279	CHIP4055	STM specil	STM2748		ATGCCTG TTATA TA ATGCCTG	1
3280	CHIP3783	STM specil	STM0330		ATGGATA TTA ACCG ATGGATA	1
3281	CHIP3799	STM/STY	STM1064	STY1085	ATGGAAC TTATTGT ATGGAAC	1
3282	CHIP2375	STM/STY	STM1475	STY1647	ATGAACC TTATCCC ATGAACC	1
3283	CHIP3433	STM/STY	STM0884	STY0917	ATGTTTG TTA AATG ATGTTTG	1
3284	CHIP3449	STM specil	STM0905		ATGTGGA TTA CTTA ATGTGGA	1
3285	CHIP3465	STM specific			ATGGAAA TTATA CT ATGGAAA	0
3286	CHIP3105	STM/STY	STM2528	STY2773	ATGCATG TTAGCCA ATGCATG	1
3287	CHIP3121	STM/STY	STM2562	STY2809	ATGATAA TTA CTCT ATGATAA	1
3288	CHIP3522	STM specil	STM1031		ATGATGA TTATA AC ATGATGA	1
3289	CHIP3491	STM/STY	STM0970	STY0968	ATGTTAT TTA ATAC ATGTTAT	1
3290	CHIP3507	STM/STY	STM0995	STY0997	ATGTTGC TTACCTG ATGTTGC	1
3291	CHIP4108	STM/STY	STM4061	STY3810	ATGAATC TTATA CA ATGAATC	1
3292	CHIP3564	STM/STY	STM4224	STY4420	ATGATGA TTATTCC ATGATGA	1
3293	CHIP4164	STM/STY	STM2910	STY3034	ATGAATC TTAGGCT ATGAATC	1
3294	CHIP3612	STM/STY	STM4342	STY4702	ATGGCTG TTAGCGT ATGGCTG	1
3295	CHIP3470	STM specil	STM0927		ATGCCTT TTAGACT ATGCCTT	1
3296	CHIP3494	STM/STY	STM0974	STY0974	ATGAAAG TTA ATGA GTGAAAG	1
3297	CHIP3510	STM/STY	STM1005	STY1011	ATGGCTA TTA CTGC ATGGCTA	1
3298	CHIP3535	STM/STY	STM4188	STY4405	ATGAGCA TTAGTCC GTGAGCA	1
3299	CHIP4127	STM specil	STM4102		ATGGAAG TTATGGC ATGGAAG	1
3300	CHIP3575	STM/STY	STM4253	STY4449	ATGGAAA TTA ATAG ATGGAAA	1
3301	CHIP3673	STM/STY	STM4467	STY4805	ATGGAAA TTA AATA ATGGAAA	1
3302	CHIP3017	STM/STY	STM2334	STY2564	ATGCCTG TTAGGTC ATGCCTG	1
3303	CHIP3033	STM/STY	STM2361	STY2591	ATGGCAT TTA ATTAC ATGGCAT	1
3304	CHIP2285	STM/STY	STM1208	STY1248	ATGCGGT TTATCCT GTGCGGT	1
3305	CHIP0226	STM specil	STM3121		ATGGAAC TTAGCCA ATGGAAC	1
3306	CHIP2333	STM/STY	STM1165	STY1203	ATGAAGC TTAGATA GTGAAGC	1
3307	CHIP0252	STM/STY	STM4159	STY3726	ATGAAAA TTA CCGC ATGAAAA	1
3308	CHIP2351	STM/STY	STM1320	STY1791	ATGAATT TTATCGA ATGAATT	1
3309	CHIP3620	STM/STY	STM4356	STY4713	ATGATGG TTAGGTA ATGATGG	1
3310	CHIP2964	STM specil	STM2005		ATGGCAT TTACGGT ATGGCAT	1
3311	CHIP2980	STM/STY	STM2261	STY2487	ATGGTTG TTAGTGC ATGGTTG	1
3312	CHIP2996	STM/STY	STM2291	STY2521	ATGGAGA TTAGTGG ATGGAGA	1
3313	CHIP2966	STM specil	STM2007		ATGCCCC TTA CTTA ATGCCCC	1
3314	CHIP2982	STM/STY	STM2263	STY2489	ATGGAAC TTACGCA ATGGAAC	1
3315	CHIP2998	STM/STY	STM2294	STY2524	ATGAAAA TTA AAAG ATGAAAA	1
3316	CHIP3014	STM/STY	STM2331	STY2561	ATGTCCC TTATTGA ATGTCCC	1
3317	CHIP3038	STM/STY	STM2369	STY2600	ATGTCTG TTAGTAC ATGTCTG	1

3318	CHIP2298	STM/STY	STM1313	STY1800	ATGAGTA TTAGAAT ATGAGTA	1
3319	CHIP0561	STM/STY	STM1414	STY1706	ATGCGTT TTATTCT ATGCGTT	1
3320	CHIP1412	STM/STY	STM3876	STY3902	ATGGAAA TTATGGC ATGGAAA	1
3321	CHIP1340	STM/STY	STM0302	STY0337	ATGTGGA TTACGTA ATGTGGA	1
3322	CHIP1356	STM/STY	STM0230	STY0253	ATGATCG TTAGGAC ATGATCG	1
3323	CHIP1476	STM/STY	STM4234	STY4430	ATGGAGT TTAGAAG ATGGAGT	1
3324	CHIP1492	STM/STY	STM2388	STY2620	ATGACTA TTAATTT ATGACTA	1
3325	CHIP1390	STM/STY	STM0131	STY0151	ATGTCGC TTATTGT ATGTCGC	1
3326	CHIP3907	STM/STY	STM1304	STY1810	ATGCGGC TTATACG ATGCGGC	1
3327	CHIP3931	STM specil	STM1353		ATGAATC TTAGCGG ATGAATC	1
3328	CHIP3947	STM/STY	STM1374	STY1749	ATGGCTG TTAGCTA ATGGCTG	1
3329	CHIP0540	STM/STY	STM1574	STY1491	ATGTTTC TTATCGG ATGTTTC	1
3330	CHIP0564	STM/STY	STM1417	STY1703	ATGCGTA TTATTCG ATGCGTA	1
3331	CHIP0566	STM/STY	STM0400	STY0438	ATGGAAA TTACGCC ATGGAAA	1
3332	CHIP1329	STM/STY	STM2255	STY2481	ATGGAAA TTAGAAA ATGGAAA	1
3333	CHIP1441	STM/STY	STM2572	STY2818	ATGAACT TTAACC ATGAACT	1
3334	CHIP1369	STM/STY	STM2070	STY2279	ATGAAAA TTAACC ATGAAAA	1
3335	CHIP1385	STM/STY	STM0105	STY0122	ATGCAAG TTAGTAA ATGCAAG	1
3336	CHIP1409	STM/STY	STM0144	STY0166	ATGGAAA TTAGTTG ATGGAAA	1
3337	CHIP1516	STM/STY	STM2272	STY2499	ATGAGCC TTAACC ATGAGCC	1
3338	CHIP1540	STM/STY	STM2444	STY2681	ATGGCCG TTAACC ATGGCCG	1
3339	CHIP1017	STM/STY	STM0829	STY0867	ATGCAGT TTACAGG ATGCAGT	1
3340	CHIP1033	STM/STY	STM2015	STY2218	ATGCGTC TTAAGG ATGCGTC	1
3341	CHIP1596	STM/STY	STM0592	STY0636	ATGTCAT TTACAGG ATGTCAT	1
3342	CHIP3144	STM specil	STM2600		ATGAAAG TTAACGT ATGAAAG	1
3343	CHIP3154	STM specil	STM2610		ATGAAAT TTATTTT ATGAAAT	1
3344	CHIP2030	STM/STY	STM3749	STY4044	ATGAAAA TTAAGC ATGAAAA	1
3345	CHIP2046	STM/STY	STM3630	STY4168	ATGAGTA TTATTCG ATGAGTA	1
3346	CHIP2062	STM/STY	STM3557	STY4254	ATGATAT TTAAGAT ATGATAT	1
3347	CHIP2078	STM/STY	STM0952	STY0950	ATGATAA TTAACC ATGATAA	1
3348	CHIP1535	STM/STY	STM2519	STY2764	ATGGTAC TTAACC ATGGTAC	1
3349	CHIP1561	STM/STY	STM0477	STY0521	ATGGCAC TTAGGGC ATGGCAC	1
3350	CHIP1585	STM/STY	STM0514	STY0562	ATGTTTG TTAACAG ATGTTTG	1
3351	CHIP1993	STM/STY	STM4399	STY4757	ATGGCTT TTATTC ATGGCTT	1
3352	CHIP2009	STM/STY	STM4508	STY4863	ATGAACA TTATACC ATGAACA	1
3353	CHIP2025	STM/STY	STM4581	STY4928	ATGGCTC TTATTTG ATGGCTC	1
3354	CHIP2041	STM/STY	STM3659	STY4139	ATGGACC TTATTC ATGGACC	1
3355	CHIP3199	STM/STY	STM3235	STY3415	ATGGCTA TTATTTT ATGGCTA	1
3356	CHIP2075	STM/STY	STM3483	STY4313	ATGAAAC TTATCCA ATGAAAC	1
3357	CHIP0585	STM/STY	STM3835	STY3943	ATGTCGA TTAATA ATGTCGA	1
3358	CHIP0697	STM/STY	STM2077	STY2286	ATGCTGG TTAACAT ATGCTGG	1
3359	CHIP0625	STM/STY	STM0413	STY0451	ATGAAAA TTAGAAG ATGAAAA	1
3360	CHIP0641	STM/STY	STM1707	STY1344	ATGACGT TTATGCC ATGACGT	1
3361	CHIP1886	STM/STY	STM3408	STY4389	ATGAAAA TTAACC ATGAAAA	1
3362	CHIP0596	STM/STY	STM3486	STY4310	ATGGAGA TTACGCC ATGGAGA	1
3363	CHIP0708	STM/STY	STM1960	STY2168	ATGGCTT TTAGGAC ATGGCTT	1
3364	CHIP0724	STM/STY	STM2581	STY2827	ATGAACC TTATTC ATGAACC	1
3365	CHIP0748	STM/STY	STM2463	STY2700	ATGAATC TTATACA ATGAATC	1
3366	CHIP1799	STM/STY	STM3993	STY3887	ATGGCAA TTACAAG ATGGCAA	1
3367	CHIP0631	STM/STY	STM2893	STY3016	ATGCATT TTAATT ATGCATT	1
3368	CHIP0743	STM/STY	STM1241	STY1883	ATGTTTC TTATTC ATGTTTC	1
3369	CHIP0767	STM/STY	STM2885	STY3008	ATGGTAA TTATGCG ATGGTAA	1

3370	CHIP1826	STM/STY	STM0870	STY0903	ATGAATA TTATCCT GTGAATA	1
3371	CHIP1858	STM/STY	STM0847	STY0886	ATGAATA TTATTCC ATGAATA	1
3372	CHIP1890	STM/STY	STM3473	STY4323	ATGACTA TTAATGC ATGACTA	1
3373	CHIP0186	STM/STY	STM2047	STY2252	ATGGATA TTATCGC ATGGATA	1
3374	CHIP1229	STM/STY	STM4288	STY4487	ATGCCGT TTAGGTG ATGCCGT	1
3375	CHIP1245	STM/STY	STM1899	STY2107	ATGGCAG TTACAGG ATGGCAG	1
3376	CHIP1269	STM/STY	STM3365	STY3546	ATGAAAA TTAACCG GTGAAAA	1
3377	CHIP1293	STM/STY	STM0043	STY0052	ATGGCTA TTAAGCC TTGGCTA	1
3378	CHIP4674	STM/STY	STM0269	STY0290	ATGAGCA TTAAGG ATGAGCA	1
3379	CHIP4700	STM/STY	STM1643	STY1426	ATGACGT TTAATA ATGACGT	1
3380	CHIP0141	STM/STY	STM4020	STY3858	ATGCACA TTAGTCG ATGCACA	1
3381	CHIP0165	STM/STY	STM0800	STY0833	ATGTTTA TTATCGC ATGTTTA	1
3382	CHIP0189	STM/STY	STM2050	STY2255	ATGGCGA TTATTGA ATGGCGA	1
3383	CHIP1232	STM/STY	STM4298	STY4497	ATGATGA TTAACGG ATGATGA	1
3384	CHIP1248	STM/STY	STM1906	STY2114	ATGATCG TTACGGT ATGATCG	1
3385	CHIP0415	STM/STY	STM2062	STY2268	ATGCTGT TTAACGA ATGCTGT	1
3386	CHIP0439	STM/STY	STM4259	STY4456	ATGAAGA TTATTC ATGAAGA	1
3387	CHIP1290	STM/STY	STM2686	STY2872	ATGCCGC TTATCTA GTGCCGC	1
3388	CHIP1306	STM/STY	STM0045	STY0054	ATGAAGC TTACACC ATGAAGC	1
3389	CHIP0104	STM/STY	STM4451	STY4790	ATGCGCT TTAACGC ATGCGCT	1
3390	CHIP4703	STM/STY	STM1528	STY1533	ATGGGTA TTAATAG ATGGGTA	0
3391	CHIP0064	STM/STY	STM3918	STY3637	ATGTTCT TTAACTT TTCTTGC	1
3392	CHIP0026	STM/STY	STM3961	STY3598	ATGTTTC TTAAGCA ATGTTTC	1
3393	CHIP1743	STM/STY	STM2980	STY3120	ATGAAAG TTATTAT CAAGTTG	1
3394	CHIP0090	STM/STY	STM4149	STY3736	ATGGCTA TTAGTCC ATGGCTA	1
3395	CHIP0874	STM/STY	STM1180	STY1219	ATGCAAA TTACATC ATGCAAA	1
3396	CHIP0890	STM/STY	STM3476	STY4320	ATGTTTA TTAATTA ATGTTTA	1
3397	CHIP0900	STM/STY	STM3360	STY3540	ATGCGAA TTAAGC ATGCGAA	1
3398	CHIP1751	STM/STY	STM2954	STY3083	ATGACAA TTAGAGA ATGACAA	1
3399	CHIP1775	STM/STY	STM4092	STY3778	ATGACAA TTACGCT GTGACAA	1
3400	CHIP0005	STM/STY	STM3983	STY3577	ATGCTTT TTAAGCC ATGCTTT	1
3401	CHIP0021	STM/STY	STM3966	STY3593	ATGGCGC TTATGCT ATGGCGC	1
3402	CHIP0037	STM/STY	STM3950	STY3609	ATGCGTT TTATATC ATGCGTT	1
3403	CHIP0047	STM/STY	STM3939	STY3620	ATGTACC TTACGAA TTGTACC	1
3404	CHIP2290	STM/STY	STM1266	STY1855	ATGTTTA TTATTA CTTAGTA	1
3405	CHIP0095	STM/STY	STM4154	STY3731	ATGAAAG TTAACCG GTGAAAG	1
3406	CHIP0879	STM/STY	STM1700	STY1352	ATGGGTT TTAACCG ATGGGTT	1
3407	CHIP0895	STM/STY	STM1918	STY2127	ATGACAT TTATGCT ATGACAT	1
3408	CHIP1746	STM/STY	STM2964	STY3103	ATGCTGG TTATGTC ATGCTGG	1
3409	CHIP1125	STM/STY	STM0886	STY0919	ATGAAAG TTAGACA ATGAAAG	1
3410	CHIP4409	STM/STY	STM0517	STY0565	ATGGCAA TTAACCG ATGGCAA	1
3411	CHIP1165	STM/STY	STM0997	STY0999	ATGAACT TTACCAG ATGAACT	1
3412	CHIP1189	STM/STY	STM1579	STY1486	ATGCAAA TTATTTCC ATGCAAA	1
3413	CHIP4473	STM/STY	STM0336	STY0369	ATGCGCA TTAACCG ATGCGCA	1
3414	CHIP2857	STM/STY	STM1734	STY1317	ATGTCTA TTATTGG ATGTCTA	1
3415	CHIP2875	STM/STY	STM1783	STY1909	ATGGCAA TTATTGC ATGGCAA	1
3416	CHIP2891	STM/STY	STM1818	STY1948	ATGAAGA TTAGGCT TTGAAGA	1
3417	CHIP2907	STM/STY	STM1848	STY1979	ATGGCTC TTAGTCT ATGGCTC	1
3418	CHIP2923	STM/STY	STM1877	STY2083	ATGTCCT TTAGCGT ATGTCCT	1
3419	CHIP4388	STM/STY	STM0478	STY0522	ATGACTA TTAGCTT ATGACTA	1
3420	CHIP1144	STM/STY	STM0612	STY0660	ATGAGAC TTAACCG ATGAGAC	1
3421	CHIP1146	STM/STY	STM0625	STY0674	ATGTCCT TTAACCG ATGTCCT	1

3422	CHIP1162	STM/STY	STM0984	STY0985	ATGCATA TTATTGGI ATGCATA	1
3423	CHIP4462	STM/STY	STM0604	STY0648	ATGCAAC TTATTTA/ ATGCAAC	1
3424	CHIP1218	STM/STY	STM1608	STY1456	ATGACCG TTAGGCC ATGACCG	1
3425	CHIP2774	STM specil	STM1572		ATGAAAC TTAGAAC ATGAAAC	1
3426	CHIP2790	STM/STY	STM1605	STY1459	ATGGATA TTAATCA(ATGGATA	1
3427	CHIP2480	STM/STY	STM3615	STY4188	ATGGCAA TTAACCTT(ATGGCAA	1
3428	CHIP4616	STM/STY	STM3130		ATGATGA TTAGCGC ATGATGA	1
3429	CHIP2520	STM/STY	STM3698	STY4097	ATGAACA TTAGGCT ATGAACA	1
3430	CHIP4656	STM/STY	STM2849	STY2971	ATGTCTG TTATTT(ATGTCTG	1
3431	CHIP4201	STM/STY	STM2975	STY3115	ATGGGAA TTAATGG(ATGGGAA	1
3432	CHIP4313	STM/STY	STM2691	STY2877	ATGACCC TTATGCT(ATGACCC	1
3433	CHIP4355	STM/STY	STM0414	STY0452	ATGACAA TTATTGA ATGACAA	1
3434	CHIP4371	STM/STY	STM0450	STY0492	ATGAATC(TTATTTT(ATGAATC(	1
3435	CHIP2467	STM/STY	STM3584	STY4227	ATGCGCC TTAGTCT ATGCGCC	1
3436	CHIP2491	STM/STY	STM3635		ATGATTA TTACTTC(TTGATTA/	1
3437	CHIP2507	STM/STY	STM3678	STY4118	ATGCTCG TTAAGAA ATGCTCG	1
3438	CHIP2523	STM/STY	STM3705	STY4090	ATGAGGC TTATCTT(ATGAGGC	1
3439	CHIP4334	STM/STY	STM0258	STY0279	ATGCGCT TTATTGC ATGCGCT	1
3440	CHIP4350	STM/STY	STM0405	STY0443	ATGAAAT TTAATCA/ ATGAAAT	1
3441	CHIP4278	STM/STY	STM3144	STY3315	ATGCATG TTATTGC/ ATGCATG	1
3442	CHIP4582	STM/STY	STM2815	STY2941	ATGCAAC TTAGTGC ATGCAAC	1
3443	CHIP2486	STM/STY	STM3625	STY4173	ATGCAGC TTATTCA/ ATGCAGC	1
3444	CHIP2510	STM/STY	STM3681	STY4115	ATGCAGC TTAGCCT ATGCAGC	1
3445	CHIP2140	STM/STY	STM3299	STY3477	ATGCAAG TTAAGG ATGCAAG	1
3446	CHIP2156	STM/STY	STM3214	STY3392	ATGACGA TTATTTAC ATGACGA	1
3447	CHIP2172	STM/STY	STM3134	STY3305	ATGAAGA TTAGCGG ATGAAGA	1
3448	CHIP1621	STM/STY	STM2827	STY2948	ATGAGCA TTATTGC/ ATGAGCA	1
3449	CHIP4521	STM/STY	STM2190	STY2424	ATGAATA TTATTTT(ATGAATA/	1
3450	CHIP4537	STM/STY	STM2225	STY2462	ATGAGTA TTACACC GTGAGTA	1
3451	CHIP1623	STM/STY	STM2839	STY2961	ATGAGTT TTAATCC ATGAGTT	1
3452	CHIP1647	STM/STY	STM2217	STY2453	ATGGGCC TTATCGT(ATGGGCC	1
3453	CHIP4547	STM specil	STM2238		ATGTTAG TTACTGG ATGTTAG	1
3454	CHIP4563	STM/STY	STM2162	STY2392	ATGAAAC TTATTTT(GTGAAAC	1
3455	CHIP1895	STM/STY	STM0934	STY0930	ATGATTG TTAGCGG ATGATTG	1
3456	CHIP1911	STM/STY	STM3430	STY4368	ATGATCC TTAGAGT ATGATCC	1
3457	CHIP1673	STM/STY	STM2149	STY2378	ATGAAAC TTAATCG ATGAAAC	1
3458	CHIP4573	STM/STY	STM2178	STY2408	ATGTCTG TTAATAA(ATGTCTG	1
3459	CHIP1905	STM/STY	STM3420	STY4378	ATGGCTA TTAACGG ATGGCTA	1
3460	CHIP2113	STM/STY	STM3589	STY4214	ATGCTAC TTAATAA/ ATGCTAC	1
3461	CHIP2129	STM/STY	STM3340	STY3521	ATGGACG TTACCGC ATGGACG	1
3462	CHIP1969	STM/STY	STM4527	STY4885	ATGGCTG TTACTCA/ ATGGCTG	1
3463	CHIP1955	STM/STY	STM4410	STY4769	ATGAGTT TTAATAA ATGAGTT	1
3464	CHIP1971	STM/STY	STM4557	STY4907	ATGACAT TTAATCT(ATGACAT	1
3465	CHIP1987	STM/STY	STM4339	STY4699	ATGCGCT TTACGAA(ATGCGCT	1
3466	CHIP0305	STM/STY	STM4458	STY4798	ATGAGCA TTAGCGA ATGAGCA	1
3467	CHIP2212	STM/STY	STM3253	STY3435	ATGTTCA TTACAGT ATGTTCA	1
3468	CHIP0345	STM/STY	STM0667	STY0712	ATGAGCC TTATTCC ATGAGCC	1
3469	CHIP2199	STM/STY	STM3322	STY3501	ATGATAA TTATGCC ATGATAA	1
3470	CHIP2215	STM/STY	STM3234	STY3414	ATGGATT TTAGGAA ATGGATT	1
3471	CHIP0348	STM/STY	STM0186	STY0211	ATGCAAG TTAACCC(ATGCAAG	1
3472	CHIP0364	STM/STY	STM1403	STY1717	ATGATGA TTAAGCA ATGATGA	1
3473	CHIP0380	STM/STY	STM3044	STY3200	ATGGAAC TTATGCC ATGGAAC	1

3474	CHIP3355	STM specil	STM0769		ATGAATG TTAGTCA(ATGAATG	1
3475	CHIP0359	STM/STY	STM1398	STY1722	ATGTCTT(TTATGAG ATGTCTT	1
3476	CHIP0375	STM/STY	STM1090	STY1120	ATGGAAA TTATGCA ATGGAAA	1
3477	CHIP3334	STM/STY	STM0726	STY0768	ATGGTTA TTAGTTA TTGGTTA	1
3478	CHIP3366	STM/STY	STM0788	STY0821	ATGACGC TTAACGC ATGACGC	1
3479	CHIP3398	STM/STY	STM0832	STY0871	ATGCCGC TTATTTTA ATGCCGC	1
3480	CHIP2187	STM/STY	STM3049	STY3205	ATGGTGC TTATGCC ATGGTGC	1
3481	CHIP4192	STM/STY	STM2955	STY3093	ATGGCCA TTA CTGG ATGGCCA	1
3482	CHIP4351	STM/STY	STM0406	STY0444	ATGAGCT TTACAGC ATGAGCT	1
3483	CHIP4384	STM/STY	STM0473	STY0516	ATGTCTG TTAACGA ATGTCTG	1
3484	CHIP4284	STM/STY	STM3159	STY3332	ATGGGTA TTACCCT GTGGGTA	1
3485	CHIP4207	STM/STY	STM2983	STY3123	ATGAAAA TTAGTTT ATGAAAA	1
3486	CHIP0490	STM/STY	STM1996	STY2204	ATGACGA TTAAGC ATGACGA	1
3487	CHIP3588	STM/STY	STM4285	STY4484	ATGAGTA TTAACCC ATGAGTA	1
3488	CHIP3573	STM/STY	STM4251	STY4447	ATGACCA TTAGGAC ATGACCA	1
3489	CHIP3605	STM/STY	STM4331	STY4691	ATGGGGT TTAGTTC ATGGGGT	1
3490	CHIP4503	STM/STY	STM1121	STY1156	ATGGCAA TTAGCTA ATGGCAA	1
3491	CHIP1044	STM specil	STM3720		ATGAGTG TTATAGA ATGAGTG	1
3492	CHIP1005	STM/STY	STM2299	STY2529	ATGAAAG TTATGAT ATGAAAG	1
3493	CHIP2564	STM/STY	STM2252	STY2478	ATGTGTG TTATTAC TGTGGAA	0
3494	CHIP1206	STM/STY	STM2732	STY4639	ATGCGAA TTAGTGG ATGCGAA	1
3495	CHIP1215	STM/STY	STM1616	STY1448	ATGATTA TTAGCGC ATGATTA	1
3496	CHIP1160	STM/STY	STM1526	STY1535	ATGAATG TTACCGC ATGAATG	1
3497	CHIP1200	STM/STY	STM1652	STY1416	ATGAACA TTAGCGT ATGAACA	1
3498	CHIP1129	STM/STY	STM1876	STY2082	ATGAAAA TTATTTA ATGAAAA	1
3499	CHIP1408	STM/STY	STM0143	STY0165	ATGAAAG TTAACGC ATGAAAG	1
3500	CHIP1322	STM/STY	STM3792	STY3990	ATGAACG TTAGGAC ATGAACG	1
3501	CHIP1411	STM/STY	STM3878	STY3900	ATGCTGA TTAGCGC ATGCTGA	1
3502	CHIP1460	STM/STY	STM0417	STY0456	ATGAACC TTAGGCC ATGAACC	1
3503	CHIP4252	STM/STY	STM3087	STY3241	ATGAAAA TTAATTT ATGAAAA	1
3504	CHIP3576	STM/STY	STM4255		ATGGGTC TTAATTT ATGGGTC	1
3505	CHIP2816	STM/STY	STM1645	STY1424	ATGAGTA TTAGAAT ATGAGTA	1
3506	CHIP2841	STM/STY	STM1687	STY1374	ATGAATA TTATTTG ATGAATA	1
3507	CHIP2538	STM/STY	STM3760		ATGATAT TTAACAG GTGATAT	1
3508	CHIP2903	STM/STY	STM1840	STY1970	ATGAAAA TTACCAG GTGAAAA	1
3509	CHIP3161	STM specil	STM2618		ATGAAAC TTATTGA ATGAAAC	1
3510	CHIP3338	STM/STY	STM0742	STY0788	ATGTGGT TTAGCTT ATGTGGT	1
3511	CHIP1083	STM specil	PSLT069		ATGATGC TTATGCT ATGATGC	1
3512	CHIP1068	STM specil	PSLT050		ATGAGCC TTAGACA ATGAGCC	0
3513	CHIP1108	STM specil	PSLT099		ATGTCTC TTACCCT ATGTCTC	1
3514	CHIP1053	STM specil	PSLT006		ATGCAGG TTATATG GTGCAGG	1
3515	CHIP1085	STM specil	PSLT071		ATGAGAC TTATGAC ATGAGAC	1
3516	CHIP1117	STM specil	PSLT109		ATGGCCT TTACAGT ATGGCCT	0
3517	CHIP4898	none	R460049		ATGAAAG TTACCAT ATGAAAG	0
3518	CHIP4899	none	R460050		ATGGTGA TTAGGCA ATGGTGA	0
3519	CHIP4886	none	R460031		ATGACCA TTATTTAC ATGACCA	0
3520	CHIP4895	none	R460040		ATGAATT TTATTTT GTGAATT	0
3521	CHIP4881	none	R460017		ATGAAAG TTAGTTA ATGAAAG	0
3522	CHIP4751	STM/STY			TCGACTT GCCAGAC TCGACTT	0
3523	CHIP4827	STM/STY	STM0907	STY1042	TGGTTTC GCGATAC TGGTTTC	1
3524	CHIP4831	STM specil	STM0911		GCTATCC GCGGTCT GCTATCC	1
3525	CHIP4835	STM/STY	STM2779		AAAACGC AAGACCG AAAACGC	1

3526	CHIP4839	STM/STY		ATGACAA	CGTTCGG	ATGACAA	0	
3527	CHIP4843	STM/STY		TGCATGG	ACTCACC	TGCATGG	0	
3528	CHIP4847	STM/STY		TGCAGGA	GCCTTTT	TGCAGGA	0	
3529	CHIP5021	STY specific	STY1596	ATGACTG	TTATTGT	GTGACTG	0	
3530	CHIP5037	STY specific	STY1613	ATGGTCG	TTATTCA	ATGGTCC	0	
3531	CHIP5052	STY specific	STY1629	ATGGCCA	TTAGCTG	GTGGCCA	0	
3532	CHIP5068	STY specific	STY1879	ATGCTGA	TTAAGCA	ATGCTGA	0	
3533	CHIP5082	STY specific	STY2020	ATGCCTG	TTATGCT	ATGCCTG	0	
3534	CHIP5190	STY specific	STY3086	ATGATGA	TTATTCC	TTGATGA	0	
3535	CHIP5039	STY specific	STY1615	ATGACAA	TTAGAAT	ATGACAA	0	
3536	CHIP5054	STY specific	STY1631	ATGATGT	TTATCTC	GTGATGT	0	
3537	CHIP5070	STY specific	STY1887	ATGAGTT	TTAATTA	ATGAGTT	0	
3538	CHIP5084	STY specific	STY2022	ATGAAAA	TTACTTC	ATGAAAA	0	
3539	CHIP5192	STY specific	STY3088	ATGACGA	TTACTGG	ATGACGA	0	
3540	CHIP5206	STY specific	STY3287	ATGCAGC	TTATGCT	ATGCAGC	0	
3541	CHIP4962	STY specific	STY1027	ATGACCA	TTACGAT	ATGACCA	0	
3542	CHIP4978	STY specific	STY1049	ATGACGA	TTAGGCG	ATGACGA	0	
3543	CHIP4993	STY specific	STY1065	ATGAAAA	TTACCCA	GTGAAAA	0	
3544	CHIP5101	STY specific	STY2041	ATGGCAA	TTAAGCG	ATGGCAA	0	
3545	CHIP5208	STY specific	STY3289	ATGTTTC	TTAATTA	TTGTTTC	0	
3546	CHIP5222	STY specific	STY3658	ATGGCAG	TTACGGG	ATGGCAG	0	
3547	CHIP4980	STY specific	STY1051	ATGAATA	TTAAATC	ATGAATA	0	
3548	CHIP5087	STY specific	STY2026	ATGAACG	TTACGCA	ATGAACG	0	
3549	CHIP5196	STY specific	STY3092	ATGCCTG	TTATTCC	TTGCCTG	0	
3550	CHIP5126	STY specific	STY2067	ATGGATA	TTACTCA	ATGGATA	0	
3551	CHIP5142	STY specific	STY2297	ATGAGGA	TTATGCT	GTGAGGA	0	
3552	CHIP5158	STY specific	STY2364	ATGATGA	TTACGCA	ATGATGA	0	
3553	CHIP5308	STY specific	STY4536	ATGGCTT	TTAGGAC	ATGGCTT	0	
3554	CHIP5323	STY specific	STY4559	ATGGCAA	TTACTGA	GTGGCAA	0	
3555	CHIP5337	STY specific	STY4576	ATGAAAT	TTAATTT	ATGAAAT	0	
3556	CHIP5353	STY specific	STY4593	ATGCTGG	TTAGGCG	ATGCTGG	0	
3557	CHIP5286	STY specific	STY4221	ATGAAAT	TTAAAAA	ATGAAAT	0	
3558	CHIP5309	STY specific	STY4539	ATGAACA	TTACGAC	ATGAACA	0	
3559	buffer	none				buffer	0	
3560	empty	none				empty	0	
3561	empty	none				empty	0	
3562	empty	none				empty	0	
3563	empty	none				empty	0	
3564	empty	none				empty	0	
3565	CHIP2641	STM/STY	STM0072	STY0082	ATGATGA	TTAATCC	ATGATGA	1
3566	CHIP3241	STM/STY	STM3315	STY3494	ATGTCGC	TTACACG	ATGTCGC	1
3567	CHIP3257	STM/STY	STM3354	STY3534	ATGACTA	TTATTTG	ATGACTA	1
3568	CHIP3273	STM/STY	STM3388	STY3568	ATGCCGG	TTATTTT	ATGCCGG	1
3569	CHIP3297	STM specil	STM0658		ATGAATA	TTAGAAA	ATGAATA	1
3570	CHIP3313	STM/STY	STM0692	STY0730	ATGGAGC	TTAGTAA	ATGGAGC	1
3571	CHIP2715	STM/STY	STM0220	STY0243	ATGAAGC	TTAGCGT	ATGAAGC	1
3572	CHIP2731	STM/STY	STM1505	STY1556	ATGAAGA	TTACCAG	ATGAAGA	1
3573	CHIP2747	STM/STY	STM1536	STY1527	ATGGCAG	TTATGAT	ATGGCAG	1
3574	CHIP0789	STM/STY	STM4455	STY4795	ATGCAAA	TTAGGCG	ATGCAAA	1
3575	CHIP0805	STM/STY	STM2033	STY2238	ATGCATT	TTAGGCC	ATGCATT	1
3576	CHIP2612	STM/STY	STM0007	STY0007	ATGACGG	TTACAGC	ATGACGG	1
3577	CHIP0799	STM/STY	STM1724	STY1327	ATGGCTG	TTACCTT	ATGGCTG	1

3578	CHIP0815	STM/STY	STM2023	STY2226	ATGAAAC TTAATGT(ATGAAAC	1
3579	CHIP0831	STM/STY	STM1726	STY1325	ATGACAA TTAGATT ATGACAA	1
3580	CHIP2638	STM specil	STM0065		ATGCGGT TTATAAA/ ATGCGGT	1
3581	CHIP2654	STM/STY	STM0096	STY0111	ATGCCTT TTATTGG ATGCCTT	1
3582	CHIP3246	STM/STY	STM3333	STY3513	ATGTCGC TTATTGT GTGTCGC	1
3583	CHIP3792	STM specil	STM1050		ATGACTT TTA CTGG ATGACTT	1
3584	CHIP3816	STM/STY	STM1096	STY1128	ATGACAA TTAACCA ATGACAA	1
3585	CHIP3832	STM/STY	STM1129	STY1166	ATGTCAC TTAGCGT ATGTCAC	1
3586	CHIP3848	STM/STY	STM1167	STY1205	ATGTTTG TTAACGC ATGTTTG	1
3587	CHIP3864	STM/STY	STM1210	STY1250	ATGATTA TTATCCC ATGATTA	1
3588	CHIP3888	STM/STY	STM1273	STY1848	ATGAAAC TTATTTT(ATGAAAC	1
3589	CHIP3842	STM/STY	STM1155	STY1192	ATGACGA TTAATAG(ATGACGA	1
3590	CHIP3858	STM/STY	STM1202	STY1241	ATGTTTT TTAACGG ATGTTTT	1
3591	CHIP2434	STM/STY	STM3526	STY4277	ATGGAAA TTACGAC ATGGAAA	1
3592	CHIP2450	STM/STY	STM3551	STY4260	ATGAAAC TTAGTAT(ATGAAAC	1
3593	CHIP3715	STM/STY	STM4542	STY4895	ATGAATA TTAGGAG ATGAATA	1
3594	CHIP3731	STM/STY	STM4584	STY4931	ATGCACC TTATCGA ATGCACC	1
3595	CHIP3892	STM/STY	STM1277	STY1841	ATGCGAA TTACAGC ATGCGAA	1
3596	CHIP3717	STM/STY	STM4546	STY4899	ATGACGA TTATACC(GTGACGA	1
3597	CHIP3733	STM/STY	STM4586	STY4933	ATGGATC TTAACGG ATGGATC	1
3598	CHIP3749	STM/STY	STM0274	STY0298	ATGGCAA TTAGGCA ATGGCAA	1
3599	CHIP4061	STM specil	STM2754		ATGCTGG TTAAGCA ATGCTGG	1
3600	CHIP4077	STM/STY	STM2775	STY2892	ATGAGAC TTATCGG ATGAGAC	1
3601	CHIP3727	STM specil	STM4573		ATGCCAG TTACGGC ATGCCAG	1
3602	CHIP3751	STM specil	STM0277		ATGAACA TTACGGC ATGAACA	1
3603	CHIP3767	STM specil	STM0299		ATGGTTA TTAAGGT GTGGTTA	1
3604	CHIP4079	STM/STY	STM2777	STY2894	ATGGGTA TTA AAAAC(ATGGGTA	1
3605	CHIP4095	STM/STY	STM4008		ATGATGG TTA AAAAC(ATGATGG	1
3606	CHIP3823	STM/STY	STM1106	STY1140	ATGAAAA TTAATAG/ ATGAAAA	1
3607	CHIP3057	STM/STY	STM2405	STY2646	ATGCAAA TTATCCC(ATGCAAA	1
3608	CHIP3073	STM/STY	STM2449	STY2686	ATGACAC TTAGTAC GTGACAC	1
3609	CHIP3089	STM/STY	STM2490	STY2728	ATGACAC TTA CTTA TTGACAC	1
3610	CHIP3489	STM/STY	STM0968	STY0966	ATGTCCA TTAGATG ATGTCCA	1
3611	CHIP3505	STM/STY	STM0993	STY0995	ATGTCAT TTATTCT ATGTCAT	1
3612	CHIP4098	STM/STY	STM4015	STY3863	ATGTTCT TTA CT CG TTGTTCT	0
3613	CHIP3115	STM/STY	STM2545	STY2791	ATGCTGC TTA CT TG(ATGCTGC	1
3614	CHIP3131	STM specil	STM2587		ATGATTA TTA AACG ATGATTA	1
3615	CHIP4116	STM/STY	STM4079	STY3791	ATGACTG TTAAGGC ATGACTG	1
3616	CHIP4140	STM/STY	STM4118	STY3755	ATGCAAT TTATTGA ATGCAAT	1
3617	CHIP3596	STM/STY	STM4308	STY4509	ATGCTTT TTA GAAA ATGCTTT	1
3618	CHIP4188	STM specil	STM2943		ATGGACA TTA TTA C ATGGACA	1
3619	CHIP3094	STM/STY	STM2503	STY2744	ATGAAAC TTA CT GA ATGAAAC	1
3620	CHIP3118	STM/STY	STM2558	STY2805	ATGAGTT TTA AAGC ATGAGTT	1
3621	CHIP3134	STM specific			ATGGCAA TTA GCGG ATGGCAA	0
3622	CHIP4111	STM/STY	STM4068	STY3802	ATGGGTA TTA GTGA TTGGGTA	1
3623	CHIP4135	STM specil	STM4113		ATGACTA TTA CCG ATGACTA	1
3624	CHIP4151	STM/STY	STM2857	STY2979	ATGCGTT TTA AACT ATGCGTT	1
3625	CHIP3681	STM specil	STM4490		ATGATCC TTA TGCA ATGATCC	1
3626	CHIP3697	STM/STY	STM4515	STY4872	ATGGTTC TTA TTA C ATGGTTC	1
3627	CHIP0194	STM/STY	STM2055	STY2260	ATGGAAA TTA CGTC ATGGAAA	1
3628	CHIP2293	STM/STY	STM1271	STY1850	ATGCGGC TTA TTA CT ATGCGGC	1
3629	CHIP2317	STM/STY	STM1483	STY1584	ATGCAAC TTA GGC ATGCAAC	1

3630	CHIP2341	STM/STY	STM1234	STY1274	ATGATAG TTAGACC GTGATAG	1
3631	CHIP2335	STM/STY	STM1213	STY1253	ATGACAA TTAGGAC ATGACAA	1
3632	CHIP0276	STM/STY	STM3478	STY4318	ATGAACC TTAACGA ATGAACC	1
3633	CHIP2948	STM/STY	STM1940	STY2149	ATGATGA TTATTCT ATGATGA	1
3634	CHIP3644	STM specil	STM4417		ATGTCTA TTAATCC ATGTCTA	1
3635	CHIP3660	STM specil	STM4434		ATGAAAG TTATTTCT ATGAAAG	1
3636	CHIP3676	STM specil	STM4484		ATGGAAG TTAGAAA ATGGAAG	1
3637	CHIP3646	STM specil	STM4419		ATGTCTC TTAGGCT ATGTCTC	1
3638	CHIP3662	STM specil	STM4436		ATGAAAA TTAACGT ATGAAAA	1
3639	CHIP3678	STM/STY	STM4486	STY4820	ATGACGA TTAGAAG ATGACGA	1
3640	CHIP3022	STM/STY	STM2341	STY2571	ATGAACG TTAATCA ATGAACG	1
3641	CHIP0199	STM/STY	STM1925	STY2134	ATGGGAA TTATGCC ATGGGAA	1
3642	CHIP2306	STM/STY	STM1341	STY1769	ATGCAAA TTATTTTC ATGCAAA	1
3643	CHIP3992	STM/STY	STM2080	STY2289	ATGAAAA TTAATCA ATGAAAA	1
3644	CHIP1420	STM/STY	STM3836	STY3942	ATGTCAC TTAATCC ATGTCAC	1
3645	CHIP1436	STM/STY	STM2568	STY2814	ATGCCGC TTATACT ATGCCGC	1
3646	CHIP1364	STM/STY	STM0207	STY0229	ATGAAAA TTAGCCA ATGAAAA	1
3647	CHIP1388	STM/STY	STM0127	STY0147	ATGCGTT TTATCGA ATGCGTT	1
3648	CHIP1404	STM/STY	STM0108	STY0125	ATGTTAA TTAACGG GTGTTAA	1
3649	CHIP1494	STM/STY	STM2385	STY2617	ATGGATA TTAATCT GTGGATA	1
3650	CHIP3915	STM/STY	STM1321	STY1790	ATGGGTT TTAATCA ATGGGTT	1
3651	CHIP0508	STM/STY	STM1978	STY2186	ATGATGA TTAGGAT ATGATGA	1
3652	CHIP0524	STM/STY	STM2147	STY2376	ATGCAGC TTAATTC ATGCAGC	1
3653	CHIP3971	STM/STY	STM1469	STY1653	ATGGTAA TTAACGT ATGGTAA	1
3654	CHIP3995	STM specil	STM2089		ATGACCT TTATAAC ATGACCT	1
3655	CHIP3997	STM/STY	STM2094	STY2304	ATGATGA TTAATCT GTGATGA	1
3656	CHIP1425	STM/STY	STM3852	STY3931	ATGTCCC TTAACGC ATGTCCC	1
3657	CHIP1353	STM/STY	STM0218	STY0241	ATGGCTA TTATTCC ATGGCTA	1
3658	CHIP1465	STM/STY	STM0422	STY0461	ATGAGTT TTATGCC ATGAGTT	1
3659	CHIP1393	STM/STY	STM0136	STY0156	ATGCTAA TTAGCTC ATGCTAA	1
3660	CHIP1505	STM/STY	STM2320	STY2550	ATGGAAT TTATGCG ATGGAAT	1
3661	CHIP0977	STM specil	STM1054		ATGATAG TTACAGG ATGATAG	1
3662	CHIP1001	STM/STY	STM1016	STY1024	ATGGCCC TTATTGG ATGGCCC	0
3663	CHIP1564	STM/STY	STM0502	STY0548	ATGACAG TTATGCT ATGACAG	1
3664	CHIP1580	STM/STY	STM0493	STY0538	ATGGCCA TTATGCT ATGGCCA	1
3665	CHIP1988	STM/STY	STM4341	STY4701	ATGACGA TTACCAG ATGACGA	1
3666	CHIP3152	STM specil	STM2608		ATGATTT TTAGTGA ATGATTT	1
3667	CHIP3162	STM/STY	STM1021	STY1035	ATGGCTA TTATGCG ATGGCTA	0
3668	CHIP3178	STM/STY	STM3186	STY3364	ATGCAAA TTAATGC ATGCAAA	1
3669	CHIP3194	STM/STY	STM3218	STY3396	ATGAAAG TTAACC ATGAAAG	1
3670	CHIP3210	STM/STY	STM3261	STY3444	ATGAAAT TTAGGAA ATGAAAT	1
3671	CHIP1511	STM/STY	STM2296	STY2526	ATGCTGG TTAGCCG GTGCTGG	1
3672	CHIP1543	STM/STY	STM2427	STY2663	ATGGAAC TTAGGCA ATGGAAC	1
3673	CHIP1569	STM/STY	STM0519	STY0567	ATGAAAC TTAGGAC ATGAAAC	1
3674	CHIP1046	STM/STY	STM0028	STY0033	ATGTATT TTAGTCA ATGTATT	0
3675	CHIP3141	STM specil	STM2597		ATGATGG TTATGAC ATGATGG	1
3676	CHIP3157	STM specil	STM2613		ATGAATG TTAATGA ATGAATG	0
3677	CHIP3173	STM/STY	STM2652	STY2845	ATGTTGT TTACAGG ATGTTGT	1
3678	CHIP3189	STM/STY	STM3205	STY3384	ATGATGA TTAGAAG TTGATGA	1
3679	CHIP2059	STM/STY	STM3586	STY4224	ATGACGT TTACCC ATGACGT	1
3680	CHIP3223	STM/STY	STM3280	STY3461	ATGATGA TTACGCA ATGATGA	1
3681	CHIP0593	STM/STY	STM0419	STY0458	ATGGCAT TTATGGC ATGGCAT	1

3682	CHIP0609	STM/STY	STM2440	STY2677	ATGAATA(TTAAATC(GTGAATA	1
3683	CHIP0721	STM/STY	STM0845	STY0884	ATGGCGC(TTACTGC(ATGGCGC	1
3684	CHIP0737	STM/STY	STM0264	STY0285	ATGAGCA(TTACGCC(ATGAGCA	1
3685	CHIP0580	STM/STY	STM1422	STY1698	ATGAGCG(TTATGGT(ATGAGCG	1
3686	CHIP0692	STM/STY	STM2352	STY2582	ATGATTG(TTATTTA(GTGATTG	1
3687	CHIP0620	STM/STY	STM0013	STY0013	ATGGCGA(TTAGCGA(ATGGCGA	1
3688	CHIP0636	STM/STY	STM1737	STY1314	ATGACCC(TTACTCA(ATGACCC	1
3689	CHIP0756	STM/STY	STM2455	STY2692	ATGATCA(TTAATTT(ATGATCA	1
3690	CHIP1807	STM/STY	STM4078	STY3792	ATGGCTG(TTAACTT(ATGGCTG	1
3691	CHIP0727	STM/STY	STM0066	STY0076	ATGATTA(TTATTTT(TTGATTA	1
3692	CHIP0751	STM/STY	STM2460	STY2697	ATGGGAA(TTATGTT(ATGGGAA	1
3693	CHIP1802	STM/STY	STM4123	STY3750	ATGGCAC(TTACAAC(ATGGCAC	1
3694	CHIP1834	STM/STY	STM0758	STY0799	ATGGCGC(TTAATGG(ATGGCGC	1
3695	CHIP1866	STM/STY	STM0746	STY0792	ATGGCCA(TTAGATT(ATGGCCA	1
3696	CHIP0584	STM/STY	STM2807	STY2932	ATGGCAA(TTATAGC(TTGGCAA	1
3697	CHIP0386	STM/STY	STM1519	STY1541	ATGACGA(TTAGTAG(ATGACGA	1
3698	CHIP0402	STM/STY	STM2879	STY3002	ATGGGTT(TTATACT(TTGGGTT	1
3699	CHIP1253	STM/STY	STM1680	STY1383	ATGACTG(TTACGAC(ATGACTG	1
3700	CHIP1277	STM/STY	STM3378	STY3558	ATGCGTC(TTAGCGC(GTGCCTC	1
3701	CHIP0466	STM/STY	STM0239	STY0264	ATGGCGC(TTATGAG(ATGGCGC	1
3702	CHIP0107	STM/STY	STM1231	STY1271	ATGATGC(TTAGCGC(ATGATGC	1
3703	CHIP0125	STM/STY	STM4168	STY3717	ATGGATC(TTAGCGC(ATGGATC	1
3704	CHIP4724	STM/STY	STM2375	STY2606	ATGAGTT(TTAATTC(ATGAGTT	1
3705	CHIP3628	STM/STY	STM4377	STY4733	ATGATGT(TTACCCG(ATGTCTT	1
3706	CHIP0389	STM/STY	STM1393	STY1727	ATGTCTG(TTATACC(ATGTCTG	1
3707	CHIP0405	STM/STY	STM1193	STY1232	ATGTATA(TTAGAAA(ATGTATA	1
3708	CHIP1256	STM/STY	STM1704	STY1347	ATGAACT(TTAAACG(ATGAACT	1
3709	CHIP1250	STM/STY	STM1904	STY2112	ATGGTAA(TTAATAC(ATGGTAA	1
3710	CHIP0447	STM/STY			ATGCCAG(TTAGCCC(ATGCCAG	0
3711	CHIP0463	STM specil	STM1008		ATGTGCG(TTAGCCG(ATGTGCG	0
3712	CHIP0479	STM/STY	STM1142	STY1179	ATGTTTA(TTACCGC(ATGTTTA	1
3713	CHIP4687	STM/STY	STM0717	STY0757	ATGCAGC(TTAGTAC(GTGCAGC	1
3714	CHIP0128	STM/STY	STM4171	STY3714	ATGAACA(TTAAAAG(GTGAACA	1
3715	CHIP0010	STM/STY	STM3978	STY3581	ATGGACC(TTATTTA(ATGGACC	1
3716	CHIP0034	STM/STY	STM3953	STY3606	ATGGACA(TTACAGG(ATGGACA	1
3717	CHIP0066	STM/STY	STM3915	STY3639	ATGAGCG(TTACGCC(ATGAGCG	1
3718	CHIP2868	STM/STY	STM1764	STY1288	ATGGAGT(TTATTTT(AGAGTAA	1
3719	CHIP1709	STM/STY	STM1822	STY1952	ATGTCTA(TTATACC(ATGTCTA	1
3720	CHIP1725	STM/STY	STM1738	STY1313	ATGCTGT(TTAAAAG(GTGCTGT	1
3721	CHIP1735	STM/STY	STM3010	STY3153	ATGCTGT(TTACTCA(ATGCTGT	1
3722	CHIP1759	STM/STY	STM2897	STY3020	ATGATTC(TTAAGAC(ATGATTC	1
3723	CHIP0948	STM/STY	STM2699	STY4605	ATGAGCG(TTAGGCT(ATGAGCG	1
3724	CHIP0185	STM/STY	STM2046	STY2251	ATGAGGA(TTACCTC(AGGAGCA	1
3725	CHIP0539	STM/STY	STM1576	STY1489	ATGACAC(TTATTGT(ATGACAC	1
3726	CHIP0045	STM/STY	STM3941	STY3618	ATGGATG(TTATTGT(ATGGATG	1
3727	CHIP0055	STM/STY	STM3927	STY3628	ATGACTG(TTATTCG(ATGACTG	1
3728	CHIP0079	STM/STY	STM3900	STY3656A	ATGACAG(TTAAGCC(ATGACAG	1
3729	CHIP3133	STM specil	STM2589		ATGATGG(TTAGAGA(ATGGGAA	0
3730	CHIP1714	STM/STY	STM1807	STY1936	ATGTTGC(TTAACGA(ATGTTGC	1
3731	CHIP1730	STM/STY	STM1715	STY1335	ATGCATA(TTAATCA(ATGCATA	1
3732	CHIP1754	STM/STY	STM2934	STY3059	ATGAACA(TTATGCA(ATGAACA	1
3733	CHIP1133	STM/STY	STM1880	STY2086	ATGGCTA(TTAGCCT(ATGGCTA	1

3734	CHIP1149	STM/STY	STM0617	STY0666	ATGAACA TTAATAAC ATGAACA	1
3735	CHIP1173	STM/STY	STM1545	STY1517	ATGAATA TTATTCT ATGAATA	1
3736	CHIP4457	STM/STY	STM0598	STY0642	ATGACCG TTAGGCT ATGACCG	1
3737	CHIP1213	STM/STY	STM1612	STY1452	ATGACCT TTATGGT ATGACCT	1
3738	CHIP2761	STM specil	STM1555		ATGGCGA TTACCGT ATGGCGA	1
3739	CHIP2779	STM/STY	STM1587	STY1478	ATGTCAC TTATTCA ATGTCAC	1
3740	CHIP2795	STM/STY	STM1615	STY1449	ATGAGTT TTATTGT ATGAGTT	1
3741	CHIP2811	STM/STY	STM1634	STY1437	ATGTCAT TTAACTG ATGTCAT	1
3742	CHIP2931	STM/STY	STM1892	STY2100	ATGAAAT TTATGAG GTGAAAT	1
3743	CHIP1128	STM/STY	STM0892	STY0925	ATGCGCT TTAACGG ATGCGCT	1
3744	CHIP4412	STM/STY	STM0522	STY0569	ATGGTCG TTAACCT ATGGTCG	1
3745	CHIP4414	STM/STY	STM0523	STY0571	ATGTCTT TTAAGTC ATGTCTT	1
3746	CHIP1178	STM/STY	STM0961	STY0959	ATGATGA TTAAGTC ATGATGA	1
3747	CHIP1202	STM/STY	STM1640	STY1429	ATGAATA TTAGCGT ATGAATA	1
3748	CHIP2862	STM/STY	STM1747		ATGCAGC TTAAGA GTGCAGC	1
3749	CHIP2878	STM/STY	STM1792	STY1919	ATGTGGC TTATCCC ATGTGGC	1
3750	CHIP2894	STM/STY	STM1828	STY1958	ATGGAAT TTATTCC ATGGAAT	1
3751	CHIP4600	STM/STY	STM3074	STY3232	ATGGTTA TTAACAT ATGGTTA	1
3752	CHIP2504	STM/STY	STM3672	STY4126	ATGGCCG TTAATTA ATGGCCG	1
3753	CHIP4640	STM specil	STM1553		ATGTTCA TTATTTA ATGTTCA	1
3754	CHIP2552	STM/STY	STM3799	STY3980	ATGTTTA TTATGGG GTGTTTA	1
3755	CHIP4209	STM/STY	STM2986	STY3126	ATGTTTG TTAGCGA ATGTTTG	1
3756	CHIP4241	STM/STY	STM3065	STY3221	ATGAAGT TTAAGTC GTGAAGT	1
3757	CHIP4267	STM specil	STM3120		ATGCCCG TTAGGAA ATGCCCG	1
3758	CHIP4283	STM/STY	STM3154		ATGGAGC TTAATC ATGGAGC	1
3759	CHIP4587	STM/STY	STM2840	STY2962	ATGTCTA TTATTTT ATGTCTA	1
3760	CHIP4611	STM/STY	STM3086	STY3240	ATGTCTG TTAAGTC ATGTCTG	1
3761	CHIP4627	STM specil	STM4186		ATGAAAT TTACGGC CTGAAAT	1
3762	CHIP4643	STM/STY	STM3654	STY4146	ATGACTG TTAATTT GGTACTG	1
3763	CHIP4246	STM specil	STM3080		ATGCTAT TTAGCTT ATGCTAT	1
3764	CHIP4262	STM/STY			ATGAAAT TTACTTT ATGAAAT	0
3765	CHIP4374	STM/STY	STM0455	STY0497	ATGAAAC TTACCTT ATGAAAC	1
3766	CHIP2470	STM/STY	STM3590	STY4213	ATGATAA TTAGTGC ATGATAA	1
3767	CHIP4614	STM/STY	STM3108	STY3263	ATGGCAA TTAGTCC ATGGCAA	1
3768	CHIP4630	STM/STY			ATGCGCA TTAATAA AGCCGCA	0
3769	CHIP1956	STM/STY	STM4438	STY4777	ATGTTAC TTATTGT ATGTTAC	1
3770	CHIP1972	STM/STY	STM4561	STY4911	ATGACTA TTAAGTC ATGACTA	1
3771	CHIP1605	STM/STY	STM2812	STY2938	ATGACGA TTAATTT ATGACGA	1
3772	CHIP1629	STM/STY	STM2128	STY2341	ATGCGCT TTATATC ATGCGCT	1
3773	CHIP1645	STM/STY	STM2215	STY2451	ATGCTAA TTACCAT ATGCTAA	1
3774	CHIP1661	STM/STY	STM2099	STY2309	ATGCCCG TTACCCT ATGCCCG	1
3775	CHIP1631	STM/STY	STM2131	STY2344	ATGACTG TTATACC ATGACTG	1
3776	CHIP4531	STM/STY	STM2203	STY2438	ATGAAAT TTAGGCC ATGAAAT	1
3777	CHIP1671	STM/STY	STM2122	STY2335	ATGACTG TTATTCA ATGACTG	1
3778	CHIP1687	STM/STY	STM1846	STY1977	ATGGAAA TTAGAAC ATGGAAA	1
3779	CHIP2087	STM/STY	STM3695	STY4101	ATGCTTA TTACGAC ATGCTTA	1
3780	CHIP2103	STM/STY	STM3645	STY4157	ATGAAAA TTAAGTC ATGAAAA	1
3781	CHIP1681	STM/STY	STM2192	STY2426	ATGATTA TTATCTG ATGATTA	1
3782	CHIP1697	STM/STY	STM1775	STY1900	ATGGATT TTATGGC ATGGATT	1
3783	CHIP2097	STM/STY	STM3670	STY4128	ATGAAAA TTAGCGG ATGAAAA	1
3784	CHIP1929	STM/STY	STM1869A		ATGAATG TTATACC ATGAATG	0
3785	CHIP1945	STM/STY	STM4375	STY4731	ATGGCAA TTAGCCT ATGGCAA	1

3786	CHIP2161	STM/STY	STM3183	STY3361	ATGGAAA TTAGTAT(TTGGAAA	1
3787	CHIP2147	STM/STY	STM3273	STY3456	ATGTTAG TTAGCAT(GTGTTAG	1
3788	CHIP2163	STM/STY	STM3158	STY3331	ATGGCAA TTATTTCC(ATGGCAA	1
3789	CHIP2179	STM/STY	STM3067	STY3223	ATGGAAG TTAAGCT(ATGGAAG	1
3790	CHIP2196	STM/STY	STM3325	STY3504	ATGATCC TTAAGCT(ATGATCC	1
3791	CHIP0329	STM/STY	STM3759	STY4027	ATGTCCT TTACCCA(ATGTCCT	1
3792	CHIP2236	STM/STY	STM3164	STY3337	ATGAACA TTAGCGC(ATGAACA	1
3793	CHIP0316	STM/STY	STM1660	STY1404	ATGATCC TTAAGCG(ATGATCC	1
3794	CHIP0332	STM/STY	STM3763	STY4023	ATGACTG TTAAGCG(ATGACTG	1
3795	CHIP2239	STM/STY	STM3156	STY3329	ATGAAAG TTATTTT(ATGAAAG	1
3796	CHIP2255	STM/STY	STM3077	STY3237	ATGAAA' TTATTTG(ATGAAA'	1
3797	CHIP2271	STM/STY	STM1083	STY1110	ATGTCGA TTAATAC(ATGTCGA	1
3798	CHIP3363	STM/STY	STM0785	STY0818	ATGAAAC TTAGTAC(ATGAAAC	1
3799	CHIP2250	STM/STY	STM3097	STY3250	ATGAGCC TTAATAC(ATGAGCC	1
3800	CHIP2266	STM/STY	STM1063	STY1084	ATGTGTG TTAGGAC(ATGTGTG	1
3801	CHIP3342	STM/STY	STM0748	STY0794	ATGATGA TTACAGA(ATGATGA	1
3802	CHIP3374	STM/STY	STM0795	STY0828	ATGAGTT TTATTCA(ATGAGTT	1
3803	CHIP3406	STM/STY	STM0842	STY0881	ATGACCG TTAGAAG(ATGACCG	1
3804	CHIP0304	STM/STY	STM1599	STY1465	ATGGTAA TTAGGGT(ATGGTAA	1
3805	CHIP4366	STM/STY	STM0440	STY0482	ATGAGTC TTAGTGC(ATGAGTC	1
3806	CHIP4233	STM/STY	STM3034	STY3183	ATGCACA TTAATAA(ATGCACA	1
3807	CHIP4259	STM/STY	STM3102	STY3255	ATGAGTG TTAATCA(ATGAGTG	1
3808	CHIP4393	STM/STY	STM0485	STY0529	ATGTTTG TTAGAAT(ATGTTTG	1
3809	CHIP4449	STM/STY	STM0587	STY0630	ATGGAAT TTATTTCC(ATGGAAT	1
3810	CHIP1536	STM/STY	STM2498	STY2739	ATGAAGA TTATTTG(ATGAAGA	1
3811	CHIP3525	STM specil	STM1034		ATGGCTA TTAGCCA(GTGGCTA	1
3812	CHIP4557	STM/STY	STM2148	STY2377	ATGAAA' TTATCGA(ATGAAA'	1
3813	CHIP4487	STM/STY	STM0355	STY0385	ATGCAGT TTACCTC(ATGCAGT	1
3814	CHIP1020	STM/STY	STM0411	STY0449	ATGGCTA TTATCGT(ATGGCTA	1
3815	CHIP2036	STM/STY	STM3702	STY4093	ATGGCCA TTAACGC(ATGGCCA	1
3816	CHIP1990	STM/STY	STM4379	STY4735	ATGATTA TTATTGA(ATGATTA	1
3817	CHIP4150	STM/STY	STM2856	STY2978	ATGTGCA TTATCTC(ATGTGCA	1
3818	CHIP2326	STM/STY	STM1118	STY1154	ATGCCAA TTATACG(ATGCCAA	1
3819	CHIP2343	STM/STY	STM1249	STY1875	ATGATGA TTAGTTA(ATGATGA	1
3820	CHIP2299	STM/STY	STM1314	STY1799	ATGTTTG TTATTTCC(ATGTTTG	1
3821	CHIP2544	STM/STY	STM3772	STY4013	ATGCCTG TTAGAGT(ATGCCTG	1
3822	CHIP2545	STM/STY	STM3773	STY4012	ATGCGGT TTAACTA(ATGCGGT	1
3823	CHIP2632	STM/STY	STM0056	STY0065	ATGAACG TTAACG(ATGAACG	1
3824	CHIP2617	STM/STY	STM0018	STY0018	ATGGCTA TTAGTAA(ATGGCTA	1
3825	CHIP2633	STM/STY	STM0057	STY0066	ATGACCA TTACACC(ATGACCA	1
3826	CHIP2618	STM/STY	STM0019	STY0019	ATGACCA TTATCTG(ATGACCA	1
3827	CHIP2620	STM/STY	STM0029	STY0035	ATGAGAC TTAGATA(ATGAGAC	1
3828	CHIP2652	STM/STY	STM0093	STY0108	ATGAAA' TTACATA(ATGAAA'	1
3829	CHIP1004	STM/STY	STM1146	STY1183	ATGTCCG TTAATAT(ATGTCCG	1
3830	CHIP2794	STM/STY	STM1613	STY1451	ATGATGA TTATTGT(ATGATGA	1
3831	CHIP2827	STM/STY	STM1662	STY1402	ATGATCA TTAATCA(ATGATCA	1
3832	CHIP2788	STM/STY	STM1603	STY1461	ATGCTTA TTAACGA(ATGCTTA	1
3833	CHIP2758	STM specil	STM1551		ATGGCAT TTATAAG(ATGGCAT	1
3834	CHIP3200	STM/STY	STM3237	STY3417	ATGAGCA TTAGGCT(ATGAGCA	1
3835	CHIP1091	STM specil	PSLT082		ATGGGAA TTACGTA(ATGGGAA	1
3836	CHIP1084	STM specil	PSLT070		ATGATCC TTAGGGA(ATGATCC	1
3837	CHIP1116	STM specific			ATGATGA TTAGTCC(ATGATGA	0

3838	CHIP1061	STM specil	PSLT031		ATGAGTC TTATGAA(ATGAGTC	1
3839	CHIP1093	STM specil	PSLT084		ATGAACC TTAATTA/ATGAACC	1
3840	CHIP0655	STM specil	PSLT035		ATGTTAA(TTACCCC.ATGTTAA(	1
3841	CHIP4905	none	R460058		ATGCCAG TTAGATA(ATGCCAG	0
3842	CHIP4906	none	R460059		ATGAAAA TTAACAA(ATGAAAA	0
3843	CHIP4894	none	R460039		ATGTTTG(TTATTTG/ATGTTTG(	0
3844	CHIP4900	none	R460053		ATGTTGA TTATCTC(ATGTTGA	0
3845	CHIP4888	none	R460033		ATGTATC,TTACAGC ATGTATC,	0
3846	CHIP4752	STM specil	PSLT023		GACCTGG TCAGCGG GACCTGG	1
3847	CHIP4828	STM/STY	STM2714	STY4618	TCGTTTA(ACGTTTC. TCGTTTA(	1
3848	CHIP4832	STM/STY			CAAACGC AAGGGAT CAAACGC	0
3849	CHIP4836	STM specific			GAACAAA AATACCG GAACAAA	0
3850	CHIP4840	STM specific			GTAACCA CTTCTGC GTAACCA	0
3851	CHIP4844	STM specil	STM0923		AAAATGA, TATCGAC AAAATGA,	1
3852	CHIP4848	STM/STY	STM3114	STY3270	TTCAGCC TCGCTAT, TTCAGCC	1
3853	CHIP4934	STY specific		STY0327	ATGGAAC TTAAGAG ATGGAAC	0
3854	CHIP4950	STM/STY		STY0746	ATGAGTC TTACGCC ATGAGTC	0
3855	CHIP4966	STY specific		STY1031	ATGGCGA TTATTCA1ATGGCGA	0
3856	CHIP4982	STY specific		STY1053	ATGTGGA TTAAGAG(ATGTGGA	0
3857	CHIP4997	STY specific		STY1069	ATGCGAT TTACGCC ATGCGAT	0
3858	CHIP5105	STY specific		STY2045	ATGAAAA TTAAGAG ATGAAAA	0
3859	CHIP4952	STY specific		STY0945	ATGCCCC TTAATCC ATGCCCC	0
3860	CHIP4968	STY specific		STY1033	ATGCATA TTACATT1ATGCATA	0
3861	CHIP4983	STY specific		STY1055	ATGAGTT TTAAGAG ATGAGTT	0
3862	CHIP4999	STY specific		STY1071	ATGAGCA TTAGAGT.ATGAGCA	0
3863	CHIP5107	STY specific		STY2047	ATGAGAG TTATTGA/ATGAGAG	0
3864	CHIP5122	STY specific		STY2063	ATGGCTT TTACCCC ATGGCTT	0
3865	CHIP5056	STY specific		STY1633	ATGACTG TTAATGG ATGACTG	0
3866	CHIP5072	STY specific		STY1890	ATGAAAA TTATTTAC ATGAAAA	0
3867	CHIP5085	STY specific		STY2024	ATGGAGC TTAAGAG(ATGGAGC	0
3868	CHIP5194	STY specific		STY3090	ATGAACC TTATTGG ATGAACC	0
3869	CHIP5124	STY specific		STY2065	ATGAACA TTAATCA/ATGAACA	0
3870	CHIP5140	STM/STY		STY2209	ATGAAAT, TTAATCT(GTGAAT	0
3871	CHIP5074	STY specific		STY2003	ATGAATC, TTAATGC TTGAATC,	0
3872	CHIP5003	STM/STY			ATGTTTCG TTATTGA ATGTTTCG	0
3873	CHIP5110	STY specific		STY2051	ATGGTGG TTACAAA ATGGTGG	0
3874	CHIP5216	STM/STY		STY3533	ATGACTA TTAAGCG ATGACTA,	0
3875	CHIP5232	STM/STY		STY3668	ATGAGCC TTAATAC/ATGAGCC	0
3876	CHIP5246	STY specific		STY3684	ATGAACC TTAGTGC ATGAACC	0
3877	CHIP5389	STY specific		STY4663	ATGACCG TTAGCGG ATGACCG	0
3878	CHIP5404	STY specific		STY4680	ATGTTGA TTAGGCA ATGTTGA	0
3879	CHIP5420	STY specific		STY4832	ATGAAAA TTATGTT(ATGAAAA	0
3880	CHIP5435	STM/STY		STY4881	ATGAGTG TTAGGCT ATGAGTG	0
3881	CHIP5374	STY specific		STY4632	ATGAAAT(TTACTTT1ATGAAAT(	0
3882	CHIP5390	STY specific		STY4664	ATGCCCC TTAACTT1ATGCCCC	0
3883	buffer	none			buffer	0
3884	empty	none			empty	0
3885	empty	none			empty	0
3886	empty	none			empty	0
3887	empty	none			empty	0
3888	empty	none			empty	0
3889	CHIP2745	STM specil	STM1531		ATGCATG TTATTTCG,ATGCATG	1

3890	CHIP2570	STM/STY	STM3823	STY3955	ATGCGAA TTATTTTT ATGCGAA	1
3891	CHIP0803	STM/STY	STM0434	STY0473	ATGAAAA TTACCAT ATGAAAA	1
3892	CHIP0819	STM/STY	STM2019	STY2222	ATGACGC TTATACC ATGACGC	1
3893	CHIP2626	STM/STY	STM0039	STY0047	ATGAAAC TTATGCC GTGAAAC	1
3894	CHIP2642	STM/STY	STM0075	STY0085	ATGAAGA TTAATG ATGAAGA	1
3895	CHIP0837	STM/STY	STM4050	STY3823	ATGAGTA TTAAGT ATGAGTA	1
3896	CHIP0853	STM/STY	STM3173	STY3350	ATGCTAT TTAACC ATGCTAT	1
3897	CHIP3244	STM/STY	STM3327	STY3506	ATGAAAA TTATTCC ATGAAAA	1
3898	CHIP3260	STM/STY	STM3366	STY3546a	ATGAGTC TTAACG ATGAGTC	1
3899	CHIP3276	STM/STY	STM3391	STY3570	ATGGCAA TTAATCA ATGGCAA	1
3900	CHIP3292	STM/STY	STM0653	STY0704	ATGATGA TTACGGC GTGATGA	1
3901	CHIP2678	STM/STY	STM0154	STY0177	ATGAGTA TTATTTT ATGAGTA	1
3902	CHIP2694	STM/STY	STM0178	STY0196	ATGCTGG TTAACC ATGCTGG	1
3903	CHIP2710	STM/STY	STM0210	STY0232	ATGGCTG TTAACGC ATGGCTG	1
3904	CHIP2726	STM/STY	STM0241	STY0266	ATGGTGA TTAAGT ATGGTGA	1
3905	CHIP2742	STM specil	STM1525		ATGGCGC TTAGTAT GTGGCGC	1
3906	CHIP0776	STM specil	STM3636		ATGAAAA TTATTCC ATGAAAA	1
3907	CHIP2448	STM/STY	STM3543	STY4268	ATGAAAA TTAATA ATGAAAA	1
3908	CHIP3713	STM specil	STM4539		ATGTCAC TTAGATT ATGTCAC	1
3909	CHIP3737	STM/STY	STM4592	STY4940	ATGGCCC TTATTGC GTGGCCC	1
3910	CHIP4049	STM specil	STM2742		ATGGTAA TTAAGT ATGGTAA	1
3911	CHIP3777	STM specil	STM0325		ATGTTGG TTACCGA ATGTTGG	0
3912	CHIP3793	STM specil	STM1052		ATGGACA TTATTTT ATGGACA	1
3913	CHIP4027	STM/STY	STM2708	STY4613	ATGGCAG TTATTTT ATGGCAG	1
3914	CHIP4043	STM specil	STM2734		ATGACTA TTAACGT ATGACTA	1
3915	CHIP3771	STM/STY	STM0311	STY0356	ATGTGCG TTAATT ATGTGCG	1
3916	CHIP4083	STM/STY	STM2783	STY2901	ATGCTAA TTAGGT ATGCTAA	1
3917	CHIP3819	STM/STY	STM1101	STY1134	ATGAAGG TTATTTT ATGAAGG	1
3918	CHIP3835	STM/STY	STM1135	STY1172	ATGGAGA TTAATAT ATGGAGA	1
3919	CHIP3789	STM specific			ATGATTA TTATGCT ATGATTA	0
3920	CHIP3813	STM/STY	STM1092	STY1124	ATGCCAG TTACAGC ATGCCAG	1
3921	CHIP3829	STM/STY	STM1126	STY1162	ATGGGAA TTAGCTG ATGGGAA	1
3922	CHIP3845	STM/STY	STM1158	STY1195	ATGCAAT TTATTTT ATGCAAT	1
3923	CHIP3861	STM/STY	STM1206	STY1246	ATGATCA TTACAAA ATGATCA	1
3924	CHIP2437	STM specil	STM3529		ATGGTTA TTAACCT ATGGTTA	1
3925	CHIP2383	STM/STY	STM3401	STY4396	ATGATGG TTACGCT ATGATGG	1
3926	CHIP3847	STM/STY	STM1164	STY1202	ATGAAAA TTAATTG ATGAAAA	1
3927	CHIP2423	STM/STY	STM3506	STY4290	ATGAAAA TTAGTGA ATGAAAA	1
3928	CHIP2439	STM specil	STM3530		ATGTTGA TTATTTG TTGTTGA	1
3929	CHIP2463	STM/STY	STM3579	STY4232	ATGACTC TTAAGT ATGACTC	1
3930	CHIP4112	STM/STY	STM4073	STY3797	ATGAGCG TTATTTT ATGAGCG	1
3931	CHIP3530	STM specil	STM1039		ATGTTTT TTAGGAC ATGTTTT	1
3932	CHIP3546	STM specil	STM4204		ATGAACA TTAATA ATGAACA	1
3933	CHIP3570	STM/STY	STM4246	STY4442	ATGGCAG TTAAGT ATGGCAG	1
3934	CHIP3586	STM/STY	STM4283	STY4482	ATGAAAA TTATTGG ATGAAAA	1
3935	CHIP4178	STM/STY	STM2929	STY3054	ATGCGAA TTATTTT ATGCGAA	1
3936	CHIP3426	STM/STY	STM0871	STY0904	ATGAAAC TTATCGG TTGAAAC	1
3937	CHIP3044	STM/STY	STM2379	STY2610	ATGCGCC TTAAGT TTGCGCC	1
3938	CHIP3452	STM specil	STM0909		ATGGACC TTATTCC ATGGACC	1
3939	CHIP3468	STM specil	STM0925		ATGATGA TTAAGT TTGATGA	0
3940	CHIP3108	STM/STY	STM2532	STY2778	ATGAAAC TTAAGG ATGAAAC	1
3941	CHIP3533	STM/STY	STM4184	STY4402	ATGAAAA TTAACC ATGAAAA	1

3942	CHIP3549	STM specil	STM4207		ATGAAAG TTAGTGA	ATGAAAG	1
3943	CHIP3583	STM/STY	STM4278	STY4476	ATGAGCG TTATGGC	ATGAGCG	1
3944	CHIP3599	STM/STY	STM4315	STY4515	ATGCTAA TTAATTA	ATGCTAA	1
3945	CHIP3615	STM/STY	STM4347	STY4707	ATGCGCC TTACAAA	GTGCGCC	1
3946	CHIP3055	STM/STY	STM2401	STY2639	ATGTTTC TTAGATG	ATGTTTC	1
3947	CHIP3071	STM/STY	STM2446	STY2683	ATGTCTC TTATAGC	ATGTCTC	1
3948	CHIP3087	STM/STY	STM2488	STY2726	ATGGCTT TTA	CTTG ATGGCTT	1
3949	CHIP0266	STM/STY	STM1295	STY1819	ATGCGAA TTACCGA	ATGCGAA	1
3950	CHIP0282	STM/STY	STM0024	STY0029	ATGAAAA TTAGTCA	ATGAAAA	1
3951	CHIP3626	STM/STY	STM4374	STY4730	ATGCATA TTACCAT	ATGCATA	1
3952	CHIP3642	STM/STY	STM4411	STY4770	ATGCGAA TTAGGGC	ATGCGAA	1
3953	CHIP2986	STM/STY	STM2273	STY2500	ATGAAAA TTATTTA	ATGAAAA	1
3954	CHIP3010	STM/STY	STM2319	STY2549	ATGATCC TTATCCA	ATGATCC	1
3955	CHIP3004	STM/STY	STM2311	STY2542	ATGTCAT TTAGCGC	ATGTCAT	1
3956	CHIP3020	STM/STY	STM2339	STY2569	ATGTCTG TTAATGA	ATGTCTG	1
3957	CHIP0197	STM/STY	STM2058	STY2263	ATGCGCC TTACTGC	ATGCGCC	1
3958	CHIP0213	STM/STY	STM3242	STY3424	ATGAATG TTATGCA	ATGAATG	1
3959	CHIP0229	STM specil	STM0197		ATGATGT TTACGAC	ATGATGT	1
3960	CHIP2328	STM/STY	STM1149	STY1186	ATGAGCT TTACCCG	ATGAGCT	1
3961	CHIP0231	STM specil	STM0199		ATGAAAA TTA	CTGA ATGAAAA	1
3962	CHIP0247	STM/STY	STM0367	STY0399	ATGACGA TTAATTA	TATGACGA	1
3963	CHIP2346	STM/STY	STM1284	STY1832	ATGACCT TTATGCA	ATGACCT	1
3964	CHIP2362	STM/STY	STM1428	STY1694	ATGCAAC TTAGTGA	ATGCAAC	1
3965	CHIP3631	STM/STY	STM4383	STY4739	ATGACTC TTAAGCA	GTGACTC	1
3966	CHIP3647	STM specil	STM4420		ATGGCCA TTATCGC	ATGGCCA	1
3967	CHIP1500	STM/STY	STM2356	STY2586	ATGAAAC TTATGCG	ATGAAAC	1
3968	CHIP3921	STM/STY	STM1337	STY1773	ATGTCAC TTATTTA	ATGTCAC	1
3969	CHIP3945	STM/STY	STM1372	STY1751	ATGGCTG TTATACC	ATGGCTG	1
3970	CHIP0538	STM/STY	STM4560	STY4910	ATGACGT TTAGTGT	ATGACGT	1
3971	CHIP3985	STM/STY	STM1494	STY1570	ATGCACA TTAGACG	ATGCACA	1
3972	CHIP1317	STM/STY	STM3776	STY4008	ATGAATG TTA	ACTC ATGAATG	1
3973	CHIP0572	STM/STY	STM4230	STY4426	ATGGCGA TTA	AACA ATGGCGA	1
3974	CHIP1423	STM/STY	STM3882	STY3896	ATGCGAA TTACTCC	ATGCGAA	1
3975	CHIP1359	STM/STY	STM0248	STY0275	ATGGCAA TTATTTT	GTGGCAA	1
3976	CHIP1375	STM/STY	STM1991	STY2199	ATGGCGC TTACGCC	ATGGCGC	1
3977	CHIP1487	STM/STY	STM4241	STY4437	ATGGAAA TTA	ACGT ATGGAAA	1
3978	CHIP3908	STM/STY	STM1305	STY1809	ATGACGC TTATACC	ATGACGC	1
3979	CHIP3910	STM/STY	STM1308	STY1805	ATGCGTA TTATTCT	ATGCGTA	1
3980	CHIP3934	STM specil	STM1356		ATGGATT TTA	CTTG ATGGATT	1
3981	CHIP3958	STM/STY	STM1442	STY1680	ATGTCTG TTACCGC	ATGTCTG	1
3982	CHIP0551	STM/STY	STM1176	STY1215	ATGTCTA TTAGATT	ATGTCTA	1
3983	CHIP3998	STM/STY	STM2095	STY2305	ATGAAAA TTATAAA	CATGAAAA	1
3984	CHIP1338	STM/STY	STM0319	STY0364	ATGACGT TTATGCC	ATGACGT	1
3985	CHIP2012	STM/STY	STM4513	STY4869	ATGACGA TTA	AACA ATGACGA	1
3986	CHIP2028	STM/STY	STM4596	STY4945	ATGAAGC TTA	AAAT ATGAAGC	1
3987	CHIP2052	STM/STY	STM3617	STY4183	ATGATGA TTA	ACGT ATGATGA	1
3988	CHIP3216	STM/STY	STM3270	STY3453	ATGGACA TTACGCC	ATGGACA	1
3989	CHIP1509	STM/STY	STM2306	STY2536	ATGCGTA TTATAAC	ATGCGTA	1
3990	CHIP1525	STM/STY	STM2286	STY2515	ATGAGCC TTAGCCG	ATGAGCC	1
3991	CHIP1551	STM/STY	STM2491	STY2729	ATGAATC TTACGCG	ATGAATC	1
3992	CHIP1583	STM/STY	STM0505	STY0551	ATGCAAA TTAGCTT	ATGCAAA	1
3993	CHIP3139	STM specil	STM2595		ATGATGC TTA	ATGATGC	1

3994	CHIP3155	STM specil	STM2611		ATGTTTG` TTATTTG(ATGTTTG`	1
3995	CHIP2031	STM/STY	STM3746	STY4047	ATGTTTG, TTATCCG` ATGTTTG,	1
3996	CHIP2047	STM/STY	STM3629	STY4169	ATGTTGC TTA`CTTC` ATGTTGC	1
3997	CHIP2049	STM/STY	STM3626	STY4172	ATGAGTA TTA`ACTC/ ATGAGTA	1
3998	CHIP2065	STM/STY	STM3545	STY4266	ATGACCT TTATTTAC` ATGACCT	1
3999	CHIP0975	STM specil	STM1042		ATGATGA TTAAGAA/ ATGATGA	1
4000	CHIP0999	STM/STY	STM1014	STY1022	ATGTCAA, TTACCCC ATGTCAA,	0
4001	CHIP1023	STM/STY	STM4470	STY4808	ATGGCAA TTAGTGA/ ATGGCAA	1
4002	CHIP1039	STM/STY	STM2945	STY3073	ATGCCAG TTATGTC/ ATGCCAG	1
4003	CHIP0649	STM/STY	STM4460	STY4800	ATGGCTA TTACAGA/ ATGGCTA	1
4004	CHIP1804	STM/STY	STM4101	STY3768	ATGAGTG TTACAGC` ATGAGTG	1
4005	CHIP1836	STM/STY	STM0706	STY0747	ATGGCCC TTAAGGT, ATGGCCC	1
4006	CHIP1876	STM/STY	STM0713	STY0753	ATGCTGA TTAATGT` ATGCTGA	1
4007	CHIP0586	STM/STY	STM0544	STY0590	ATGTCGC TTATGGG ATGTCGC	1
4008	CHIP0602	STM/STY	STM2565	STY2812	ATGATGG TTAACCA/ ATGATGG	1
4009	CHIP1815	STM/STY	STM4049	STY3824	ATGGCAA TTAATCG/ GTGGCAA	1
4010	CHIP1847	STM/STY	STM0645	STY0696	ATGGTCA TTACCGG ATGGTCA	0
4011	CHIP1879	STM/STY	STM0268	STY0289	ATGGATC TTATACG/ ATGGATC	1
4012	CHIP0589	STM/STY	STM2559	STY2806	ATGAACG TTATTTCC` ATGAACG	1
4013	CHIP0613	STM/STY	STM3502	STY4294	ATGCAAG TTATGCT` ATGCAAG	1
4014	CHIP0629	STM/STY	STM1695	STY1356	ATGCCGT TTA`CTCT(ATGCCGT	1
4015	CHIP0680	STM/STY	STM0110	STY0129	ATGGCAG TTACCGC ATGGCAG	1
4016	CHIP0608	STM/STY	STM1749	STY1302	ATGGCTG TTAAGCG ATGGCTG	1
4017	CHIP0632	STM/STY	STM2892	STY3015	ATGGGCC TTAGGCG ATGGGCC	1
4018	CHIP0752	STM/STY	STM2459	STY2696	ATGAACA TTAGGAA GTGAACA	1
4019	CHIP1819	STM/STY	STM4029	STY3849	ATGAGTC TTA`CTCC` ATGAGTC	1
4020	CHIP1851	STM/STY	STM0634	STY0684	ATGAGTG TTAGAAC/ GTGAGTG	1
4021	CHIP0123	STM/STY	STM4165	STY3720	ATGCTAA, TTAAGCG ATGCTAA,	1
4022	CHIP0139	STM/STY	STM4022	STY3856	ATGAACA TTAACGA/ ATGAACA,	1
4023	CHIP4738	STM/STY	STM4002	STY3879	ATGAGTT TTAACGG GTGAGTT	1
4024	CHIP0387	STM/STY	STM1518	STY1542	ATGAAAA` TTA`AAGG` ATGAAAA`	1
4025	CHIP0403	STM/STY	STM1191	STY1230	ATGGCCC TTA`CTTA(ATGGCCC	1
4026	CHIP1254	STM/STY	STM1682	STY1381	ATGTCAC TTATGCC` ATGTCAC	1
4027	CHIP0429	STM/STY	STM2501	STY2742	ATGGGTC TTAGTCT(ATGGGTC	1
4028	CHIP1280	STM/STY	STM3362	STY3543	ATGAAAA TTA`CTTA1 ATGAAAA/	1
4029	CHIP0469	STM/STY	STM3719	STY4076	ATGAAAA` TTA`CTTT1 ATGAAAA`	1
4030	CHIP4677	STM/STY	STM0305	STY0342	ATGATGC TTATCGG ATGATGC	1
4031	CHIP0118	STM/STY	STM4160	STY3725	ATGTTAC(TTATGCT/ ATGTTAC(	1
4032	CHIP4717	STM/STY	STM3774	STY4010	ATGAAAC TTACATC` ATGAAAC	1
4033	CHIP4711	STM/STY	STM1948	STY2156	ATGCATC TTATTTAT ATGCATC	1
4034	CHIP0152	STM/STY	STM3870	STY3908	ATGGAAA TTACGCG ATGGAAA	1
4035	CHIP0176	STM/STY	STM2037	STY2242	ATGAATG TTACAGT` ATGAATG	1
4036	CHIP1227	STM/STY	STM4294	STY4493	ATGTCTT(TTAATCC` ATGTCTT(	1
4037	CHIP1243	STM/STY	STM1911	STY2120	ATGATGG TTAGAAA` ATGATGG	1
4038	CHIP1267	STM/STY	STM1712	STY1339	ATGTCGT TTAGTTC/ ATGTCGT	1
4039	CHIP0898	STM/STY	STM2670	STY2857	ATGCAAA TTATGCG ATGCAAA	1
4040	CHIP1749	STM/STY	STM2960	STY3098	ATGAGTA TTAACGC` ATGAGTA	1
4041	CHIP0938	STM/STY	STM0428	STY0467	ATGCTGA TTATACC` ATGCTGA	1
4042	CHIP0011	STM/STY	STM3977	STY3582	ATGCAAT TTAATC1 ATGCAAT1	1
4043	CHIP0035	STM/STY	STM3952	STY3607	ATGCTGA TTACAGC ATGCTGA	1
4044	CHIP0059	STM/STY	STM3923		ATGAAAG TTAATAC1 ATGAAAG	1
4045	CHIP1136	STM/STY	STM1885	STY2093	ATGTTGT TTA`AAAA(TTGTTAC(	1

4046	CHIP0069	STM/STY	STM3912	STY3642	ATGCGTT TTACGAT ATGCGTT	1
4047	CHIP2658	STM/STY	STM0107	STY0124	ATGCAAC TTAAATC/CAACGCC	1
4048	CHIP1704	STM/STY	STM1748	STY1303	ATGATTC TTAGTTG GTGATTC	1
4049	CHIP1720	STM/STY	STM1788	STY1915	ATGACTG TTATGAG ATGACTG	1
4050	CHIP1736	STM/STY	STM3001	STY3142	ATGAAAC TTAGATA ATGAAAC	1
4051	CHIP0927	STM/STY	STM1743	STY1308	ATGAGCT TTATAGC ATGAGCT	1
4052	CHIP1786	STM/STY	STM4042	STY3833	ATGAAAC TTATTTTT ATGAAAC	1
4053	CHIP0032	STM/STY	STM3955	STY3604	ATGGACG TTATTTTT ATGGACG	1
4054	CHIP0072	STM/STY	STM3907	STY3650	ATGATTG TTACGGC GTGATTG	1
4055	CHIP3145	STM specil	STM2601		ATGCCGA TTAGAGC CCGAAAA	1
4056	CHIP1715	STM/STY	STM1804	STY1933	ATGGCAA TTACAGC ATGGCAA	1
4057	CHIP2865	STM/STY	STM1756	STY1294	ATGCAAT TTAAAGA ATGCAAT	1
4058	CHIP2785	STM/STY	STM1597	STY1467	ATGACGA TTAATGC ATGACGA	1
4059	CHIP2905	STM/STY	STM1845	STY1976	ATGAACA TTACTTA ATGAACA	1
4060	CHIP2929	STM/STY	STM1890	STY2098	ATGCTGG TTAATCG ATGCTGG	1
4061	CHIP4402	STM/STY	STM0504	STY0550	ATGTCCG TTAATAC ATGTCCG	1
4062	CHIP4418	STM/STY	STM0527	STY0575	ATGATAA TTATTTTT ATGATAA	1
4063	CHIP4420	STM/STY	STM0531	STY0579	ATGAAAC TTATCCT ATGAAAC	1
4064	CHIP4444	STM/STY	STM0579	STY0621	ATGGACG TTAGCGC ATGGACG	1
4065	CHIP4468	STM/STY	STM0616	STY0664	ATGTCCA TTAACGC ATGTCCA	1
4066	CHIP2756	STM/STY	STM1549		ATGACGC TTAGGGG ATGACGC	1
4067	CHIP2876	STM/STY	STM1785	STY1911	ATGAAAA TTACCAG ATGAAAA	1
4068	CHIP2796	STM/STY	STM1617	STY1447	ATGATCC TTATAGC ATGATCC	1
4069	CHIP2798	STM/STY	STM1620	STY1444	ATGAAAA TTA CTGG ATGAAAA	1
4070	CHIP2822	STM/STY	STM1653	STY1415	ATGCCAG TTAGTGA ATGCCAG	0
4071	CHIP2838	STM/STY	STM1681	STY1382	ATGAGAT TTAAAGA ATGAGAT	1
4072	CHIP4399	STM/STY	STM0498	STY0544	ATGTCTC TTAGCGT ATGTCTC	1
4073	CHIP1155	STM/STY	STM1522	STY1538	ATGACAA TTAATGC ATGACAA	1
4074	CHIP1171	STM/STY	STM1560	STY1503	ATGAGTT TTATGAT ATGAGTT	1
4075	CHIP4249	STM specil	STM3083		ATGGACA TTAACCC ATGGACA	1
4076	CHIP4361	STM/STY	STM0435	STY0474	ATGAAGG TTAATCG ATGAAGG	1
4077	CHIP2465	STM/STY	STM3582	STY4229	ATGGCAA TTATCCC ATGGCAA	1
4078	CHIP4601	STM/STY	STM4041	STY3834	ATGCAGC TTAATTA TTGCAGC	0
4079	CHIP2505	STM/STY	STM3673	STY4123	ATGAAAT TTATTGC ATGAAAT	1
4080	CHIP2529	STM/STY	STM3732	STY4062	ATGGCAG TTA CTGT ATGGCAG	1
4081	CHIP2531	STM/STY	STM3739	STY4054	ATGAGAT TTAAGAC ATGAGAT	1
4082	CHIP4204	STM/STY	STM2977	STY3117	ATGAAAC TTATACT ATGAAAC	1
4083	CHIP4316	STM/STY	STM2695		ATGAACT TTATTCA GTGAACT	1
4084	CHIP4348	STM/STY	STM0396	STY0430	ATGACGT TTATGCC ATGACGT	1
4085	CHIP4276	STM/STY	STM3138	STY3309	ATGTTTA TTACAGT ATGTTTA	1
4086	CHIP2476	STM/STY	STM3601	STY4202	ATGATGG TTAATAT ATGATGG	1
4087	CHIP2518	STM/STY	STM3696	STY4100	ATGAAGA TTATGCG GTGAAGA	1
4088	CHIP2550	STM/STY	STM3784	STY3998	ATGCAGG TTATACT ATGCAGG	1
4089	CHIP4311	STM/STY	STM2689	STY2875	ATGGTCA TTAACCG GTGGTCA	1
4090	CHIP4335	STM/STY	STM0052	STY0061	ATGGTGA TTATACT ATGGTGA	0
4091	CHIP4359	STM/STY	STM0423	STY0462	ATGGACT TTATTTA ATGGACT	1
4092	CHIP4287	STM/STY	STM3165	STY3338	ATGGCTA TTAACCG ATGGCTA	1
4093	CHIP4545	STM specil	STM2236		ATGAGTG TTACACA ATGAGTG	1
4094	CHIP4561	STM/STY	STM2157	STY2387	ATGCTGA TTA CTTC ATGCTGA	1
4095	CHIP1893	STM/STY	STM0938	STY0934	ATGTTTT TTAGGCC ATGTTTT	1
4096	CHIP2101	STM/STY	STM3650	STY4152	ATGTCGA TTAACGT ATGTCGA	1
4097	CHIP1933	STM/STY	STM4338	STY4698	ATGTCCT TTAATGC ATGTCCT	1

4098	CHIP1957	STM/STY	STM4439	STY4778	ATGCGTA TTAACGA ATGCGTA	1
4099	CHIP1919	STM/STY	STM3438	STY4360	ATGATTC TTAACGA ATGATTC	1
4100	CHIP1935	STM/STY	STM4357	STY4714	ATGATGA TTAATCG ATGATGA	1
4101	CHIP2143	STM/STY	STM3285	STY3466	ATGGCGA TTAGTCC ATGGCGA	1
4102	CHIP2159	STM/STY	STM3200	STY3379	ATGAAAG TTAATTC ATGAAAG	1
4103	CHIP2175	STM/STY	STM3128	STY3297	ATGAATA TTAATTC ATGAATA	1
4104	CHIP1616	STM/STY	STM2816	STY2942	ATGAAGG TTAGAAG ATGAAGG	1
4105	CHIP1977	STM/STY	STM4582	STY4929	ATGATGC TTAATAC ATGATGC	1
4106	CHIP4494	STM/STY	STM0376	STY0408	ATGTTTA TTAGCTA ATGTTTA	1
4107	CHIP1642	STM/STY	STM2212	STY2448	ATGGCAG TTACGCG ATGGCAG	1
4108	CHIP1658	STM/STY	STM2091	STY2301	ATGATTG TTAACGA ATGATTG	1
4109	CHIP1674	STM/STY	STM2150	STY2379	ATGCTAA TTACCGA ATGCTAA	1
4110	CHIP1690	STM/STY	STM1836	STY1965	ATGAAAA TTACGAA GTGAAAA	1
4111	CHIP2244	STM/STY			ATGTGCC TTAATGT ATGTGCC	0
4112	CHIP2260	STM/STY	STM3064	STY3220	ATGAAAC TTAATCC ATGAAAC	1
4113	CHIP3344	STM/STY	STM0750	STY0796	ATGAGCA TTACATC ATGAGCA	1
4114	CHIP3392	STM/STY	STM0820	STY0855	ATGTCTT TTAATCG ATGTCTT	1
4115	CHIP2189	STM/STY	STM3043	STY3199	ATGAAAA TTATTTA ATGAAAA	1
4116	CHIP0322	STM/STY	STM1179	STY1218	ATGATCA TTAGAGT ATGATCA	1
4117	CHIP3371	STM/STY	STM0792	STY0825	ATGAAAC TTAATCG ATGAAAC	1
4118	CHIP3419	STM specil	STM0860		ATGTATT TTACAGC ATGTATT	1
4119	CHIP2200	STM/STY	STM3317	STY3496	ATGAGTA TTAAGGC ATGAGTA	1
4120	CHIP0333	STM/STY	STM3764	STY4022	ATGGAGC TTATTGA ATGGAGC	1
4121	CHIP2248	STM/STY	STM3101	STY3254	ATGAATA TTATAAC ATGAATA	1
4122	CHIP0381	STM/STY	STM1947	STY2155	ATGATCA TTACTGG TTGATCA	1
4123	CHIP2195	STM/STY	STM3330	STY3510	ATGTTGT TTAATCG ATGTTGT	1
4124	CHIP2211	STM/STY	STM3254	STY3436	ATGTTTG TTACAGC ATGTTTG	1
4125	CHIP2227	STM/STY	STM3211	STY3390	ATGCCGC TTAATCG ATGCCGC	1
4126	CHIP0360	STM/STY	STM1399	STY1721	ATGAAAA TTAGCTC ATGAAAA	1
4127	CHIP0384	STM specil	STM2232		ATGATCT TTATTTT ATGATCT	1
4128	CHIP3351	STM specil	STM0763		ATGTTAG TTATTTA TTGTTAG	1
4129	CHIP0484	STM/STY	STM0740	STY0786	ATGTTAG TTAGCGT ATGTTAG	1
4130	CHIP0534	STM/STY	STM2873	STY2994	ATGGCAA TTAACGG ATGGCAA	1
4131	CHIP0527	STM/STY	STM2799	STY2920	ATGAATT TTAGATT ATGAATT	1
4132	CHIP0496	STM/STY	STM3727	STY4067	ATGGCTA TTATTTG ATGGCTA	1
4133	CHIP0699	STM/STY	STM2676	STY2863	ATGGTAA TTAAGCT ATGGTAA	1
4134	CHIP4427	STM/STY	STM0541	STY0587	ATGGCGA TTAGGCC ATGGCGA	1
4135	CHIP1021	STM/STY	STM1706	STY1345	ATGAGCG TTAGCCG ATGAGCG	1
4136	CHIP1038	STM/STY	STM1699		ATGTCCA TTACGCT ATGTCCA	1
4137	CHIP1032	STM/STY	STM1966	STY2174	ATGAAAA TTATTTT ATGAAAA	1
4138	CHIP4511	STM/STY	STM1592	STY1473	ATGTCGC TTACAGG ATGTCGC	1
4139	CHIP0042	STM/STY	STM3944	STY3615	ATGCCAA TTACCGT ATGCCAA	1
4140	CHIP0070	STM/STY	STM3910	STY3647	ATGGCAA TTATTTA ATGGCAA	1
4141	CHIP1161	STM/STY	STM0982	STY0982	ATGACCA TTAACCG ATGACCA	1
4142	CHIP4182	STM specil	STM2937		ATGATGA TTATTGA TTGATGA	1
4143	CHIP2094	STM/STY	STM3675	STY4121	ATGCATT TTATTTT CATTACT	1
4144	CHIP3936	STM specil	STM1358		ATGAAAA TTACGCC ATGAAAA	1
4145	CHIP3929	STM specil	STM1351		ATGAGTT TTAGCCG ATGAGTT	1
4146	CHIP4732	STM/STY	STM3945		ATGCAAT TTATTTT ATGCAAT	1
4147	CHIP3609	STM/STY	STM4336	STY4696	ATGGTTA TTACTGC ATGGTTA	1
4148	CHIP4330	STM/STY	STM4599	STY4948	ATGACTA TTATGTT ATGACTA	1
4149	CHIP4332	STM/STY	STM0001	STY0001	ATGAACC TTAGCCC ATGAACC	1

4150	CHIP4327	STM/STY	STM4462		ATGTCGT TTATTTG(ATGTCGT	1
4151	CHIP4505	STM/STY	STM1722		ATGGCAG TTAGGAA ATGGCAG	1
4152	CHIP4499	STM specil	STM1281		ATGTACG TTAGTCC(ATGTACG	1
4153	CHIP3185	STM/STY	STM3197	STY3376	ATGCTGA TTAGTGT ATGCTGA	1
4154	CHIP3229	STM/STY	STM3293	STY3471	ATGTACG TTAGCGCATGTACG	1
4155	CHIP3427	STM/STY	STM0873	STY0906	ATGCGCA TTAATGG ATGCGCA	1
4156	CHIP3492	STM/STY	STM0971		ATGCGCG TTACAGA TTGCGCG	1
4157	CHIP3438	STM specil	STM0894		ATGCAAA TTAAAGA ATGCAAA	1
4158	CHIP3329	STM/STY	STM0719	STY0759	ATGCAAC TTAAACG ATGCAAC	1
4159	CHIP1062	STM specil	PSLT032		ATGCATT TTAGCAC ATGCATT	1
4160	CHIP1102	STM specil	PSLT093		ATGTTTA TTATTTTC GTGTTTA	1
4161	CHIP1071	STM specil	PSLT056		ATGTTCA TTATCCA(ATGTTCA	1
4162	CHIP1111	STM specil	PSLT102		ATGGGAA TTACCTG GTGGGAA	1
4163	CHIP0171	STM specil	PSLT080		ATGAGAA TTACGCT ATGAGAA	1
4164	CHIP0428	STM specil	PSLT008		ATGGAGC TTATACG ATGGAGC	1
4165	CHIP4753	STM/STY			CGCAACT TGGGCAG CGCAACT	0
4166	CHIP4757	STM specil	PSLT108		CGGGATC ACGCTCT CGGGATC	1
4167	CHIP4761	STM/STY	STM0032	STY0039	GGCCATT AAGATCG GGCCATT	1
4168	CHIP4765	STM/STY			CGTCAGC ACCTTAG CGTCAGC	0
4169	CHIP4769	STM/STY			CGTTTTT AACTGCA CGTTTTT	0
4170	CHIP4773	STM/STY			CTCTTCC TAGAGGC CTCTTCC	0
4171	CHIP4849	STM/STY			GGGTGAT ATGCAGC GGGTGAT	0
4172	CHIP4853	STM/STY			ACCATTT(CACAGGC ACCATTT	0
4173	CHIP4857	STM/STY			AGATTGG CAGCGTC AGATTGG	0
4174	CHIP4861	STM/STY			AATACCG GGTAGTT AATACCG	0
4175	CHIP4865	STM specific			GAACAAA CCAGATC GAACAAA	0
4176	CTRL004	none			human plac	0
4177	CHIP5198	STY specific		STY3189	ATGTTAT TTAGAGG ATGTTAT	0
4178	CHIP5128	STY specific		STY2069	ATGAATA TTACCGG ATGAATA	0
4179	CHIP5144	STY specific		STY2299	ATGAAAA TTATTTT(ATGAAAA	0
4180	CHIP5248	STY specific		STY3686	ATGGCTG TTACCCC GTGGCTG	0
4181	CHIP5182	STY specific		STY3064	ATGAGTA TTATTGA ATGAGTA	0
4182	CHIP4919	STY specific		STY0207	ATGAAAA TTAAGG ATGAAAA	0
4183	CHIP5212	STY specific		STY3345	ATGCAGG TTAATTC(ATGCAGG	0
4184	CHIP5228	STY specific		STY3664	ATGGCAA TTAATTC(ATGGCAA	0
4185	CHIP5242	STM/STY		STY3680	ATGAAAG TTAGTCC ATGAAAG	0
4186	CHIP5176	STY specific		STY2887	ATGGCTT TTAGAGG ATGGCTT	0
4187	CHIP4913	STY specific		STY0201	ATGCTTT TTACGGA ATGCTTT	0
4188	CHIP4929	STY specific		STY0314	ATGCCCC TTATTCA ATGCCCC	0
4189	CHIP5230	STY specific		STY3666	ATGGCTG TTATACA(ATGGCTG	0
4190	CHIP5244	STY specific		STY3682	ATGCTGG TTAGTTT(GTGCTGG	0
4191	CHIP5259	STM/STY		STY3706	ATGGGGC TTAATTC(ATGGGGC	0
4192	CHIP5274	STY specific		STY4075	ATGGGTA TTAAAGG TTGGGTA	0
4193	CHIP5018	STY specific		STY1593	ATGACGA TTAGTCA ATGACGA	0
4194	CHIP5034	STY specific		STY1610	ATGACAT TTAACCA(ATGACAT	0
4195	CHIP5166	STY specific		STY2750	ATGCATT TTAATAC ATGCATT	0
4196	CHIP5180	STM/STY		STY2906	ATGAAAA TTATTTT(ATGAAAA	0
4197	CHIP5277	STM/STY			ATGGCAA TTAACCT(ATGGCAA	0
4198	CHIP5378	STM/STY			ATGGCTG TTATACA(ATGGCTG	0
4199	CHIP5394	STY specific		STY4668	ATGATCT TTAGGCA ATGATCT	0
4200	CHIP5409	STY specific		STY4821	ATGAAGC TTATTTT ATGAAGC	0
4201	CHIP5316	STY specific		STY4549	ATGACAG TTATCTC ATGACAG	0

4202	CHIP5330	STY specific		STY4569	ATGGCGA TTAATTT(ATGGCGA	0
4203	CHIP5428	STY specific		STY4850	ATGACTA TTAGCCT ATGACTA	0
4204	CHIP5368	STY specific		STY4619	ATGAAAA TTAGGCC ATGAAAA	0
4205	CHIP5380	STY specific		STY4648	ATGCTCA TTAACGG TTGCTCA	0
4206	CHIP5391	STY specific		STY4665	ATGTTCC TTAATTG ATGTTCC	0
4207	buffer	none			buffer	0
4208	empty	none			empty	0
4209	empty	none			empty	0
4210	empty	none			empty	0
4211	empty	none			empty	0
4212	empty	none			empty	0
4213	CHIP3321	STM/STY	STM0703	STY0744	ATGAACG TTACATA ATGAACG	1
4214	CHIP2578	STM/STY	STM3833	STY3945	ATGATGA TTATTTT ATGATGA	1
4215	CHIP2594	STM/STY	STM3856	STY3927	ATGGCTG TTAACGT ATGGCTG	1
4216	CHIP2610	STM/STY	STM3888	STY3888	ATGCCTT TTAATTA ATGCCTT	1
4217	CHIP0843	STM/STY	STM1778	STY1904	ATGACCC TTATTTT ATGACCC	1
4218	CHIP0859	STM/STY	STM0111	STY0130	ATGGCCA TTATTTG ATGGCCA	1
4219	CHIP2628	STM/STY	STM0042	STY0050	ATGAGTT TTATGAG ATGAGTT	1
4220	CHIP2660	STM/STY	STM0119	STY0139	ATGTTCC TTATAGA ATGTTCC	1
4221	CHIP2676	STM/STY	STM0150	STY0173	ATGATGG TTAGTGG ATGATGG	1
4222	CHIP2692	STM specil	STM0176		ATGAATT TTAAGGC ATGAATT	1
4223	CHIP2708	STM specil	STM0201		ATGAAAA TTAAGC ATGAAAA	1
4224	CHIP2724	STM/STY	STM0238	STY0263	ATGGAAA TTATTCAT GTGGAAA	1
4225	CHIP3254	STM/STY	STM3346	STY3526	ATGCAAA TTACGGC ATGCAAA	1
4226	CHIP3270	STM/STY	STM3381	STY3561	ATGGACG TTAAGCT ATGGACG	1
4227	CHIP3286	STM/STY	STM0647	STY0698	ATGCGAT TTAGTTA GTGCGAT	1
4228	CHIP3302	STM/STY	STM0671	STY0717	ATGACAA TTACAAC ATGACAA	1
4229	CHIP3318	STM/STY	STM0700	STY0738	ATGAGTA TTAGCCG ATGAGTA	1
4230	CHIP0784	STM/STY	STM1962	STY2170	ATGACCT TTATGAG ATGACCT	1
4231	CHIP3896	STM/STY	STM1285	STY1831	ATGAATA TTACGAC ATGAATA	1
4232	CHIP4009	STM/STY	STM2115	STY2328	ATGGCGC TTATCGC ATGGCGC	1
4233	CHIP4033	STM/STY	STM2718	STY4623	ATGAAGT TTAGATA ATGAAGT	1
4234	CHIP4057	STM specil	STM2750		ATGTTTC TTATGGC ATGTTTC	1
4235	CHIP4073	STM specil	STM2766		ATGAGCC TTAGGTC ATGAGCC	1
4236	CHIP4089	STM/STY	STM2792	STY2912	ATGAATA TTACGCT ATGAATA	1
4237	CHIP3739	STM/STY	STM4597	STY4946	ATGAAAA TTAGCGG ATGAAAA	1
4238	CHIP3755	STM specil	STM0284		ATGGTCT TAAAAT ATGGTCT	1
4239	CHIP4067	STM specil	STM2760		ATGTCGC TTAATCA ATGTCGC	1
4240	CHIP3795	STM/STY	STM1057	STY1078	ATGACAC TTAGGCT ATGACAC	1
4241	CHIP2379	STM/STY	STM1495	STY1569	ATGACCA TTAACGG ATGACCA	1
4242	CHIP2395	STM/STY	STM3452	STY4346	ATGTCCA TTATTTAT ATGTCCA	1
4243	CHIP3797	STM/STY	STM1060	STY1081	ATGGCGA TTAATTTI GTGGCGA	1
4244	CHIP2373	STM/STY	STM1456	STY1666	ATGGTAT TTATCCT ATGGTAT	1
4245	CHIP2389	STM/STY	STM3421	STY4377	ATGCGTT TTATTC ATGCGTT	1
4246	CHIP2405	STM/STY	STM3467	STY4329	ATGTGGC TTAACCT ATGTGGC	1
4247	CHIP2421	STM/STY	STM3500	STY4296	ATGCGCC TTACAGC ATGCGCC	1
4248	CHIP3885	STM/STY	STM1265	STY1856	ATGACTG TTAAGCA ATGACTG	1
4249	CHIP3831	STM/STY	STM1128	STY1164	ATGATTA TTATAAT ATGATTA	1
4250	CHIP3855	STM/STY	STM1199	STY1238	ATGAAAA TTAAGCA ATGAAAA	1
4251	CHIP3871	STM/STY	STM1218	STY1258	ATGAATA TTAAGCA ATGAATA	1
4252	CHIP2447	STM/STY	STM3542	STY4269	ATGAGCA TTACAGC TTGAGCA	1
4253	CHIP3520	STM specil	STM1029		ATGTTTG TTACCAT ATGTTTG	1

4254	CHIP3544	STM specil	STM4202		ATGGCGA TTATCCA ATGGCGA	1
4255	CHIP4106	STM/STY	STM4057	STY3814	ATGACTG TTACCGG ATGACTG	1
4256	CHIP4122	STM/STY	STM4090	STY3780	ATGACTG TTAAACG ATGACTG	1
4257	CHIP4146	STM/STY	STM4129	STY3745	ATGACCC TTACCTT ATGACCC	1
4258	CHIP4162	STM/STY	STM2907	STY3030	ATGGAAT TTAACCTT ATGGAAT	1
4259	CHIP3610	STM/STY	STM4337	STY4697	ATGTTGA TTAATCG ATGTTGA	1
4260	CHIP3050	STM/STY	STM2391	STY2623	ATGGTCA TTAGAAC ATGGTCA	1
4261	CHIP3436	STM/STY	STM0891	STY0924	ATGAGTA TTAGTGA ATGAGTA	1
4262	CHIP3076	STM/STY	STM2472	STY2709	ATGGATG TTAAAGC ATGGATG	1
4263	CHIP3092	STM/STY	STM2494	STY2735	ATGTTCA TTACATT ATGTTCA	1
4264	CHIP3116	STM/STY	STM2551	STY2797	ATGTCAG TTAACCA ATGTCAG	1
4265	CHIP4109	STM/STY	STM4065	STY3805	ATGAAAC TTATGCC ATGAAAC	1
4266	CHIP4125	STM/STY	STM4098	STY3771	ATGTTAT TTATTTT ATGTTAT	1
4267	CHIP4159	STM specil	STM2903		ATGGAAG TTACCAA ATGGAAG	1
4268	CHIP4175	STM/STY	STM2926	STY3051	ATGGTAA TTAGGCC ATGGTAA	1
4269	CHIP4191	STM/STY	STM2953	STY3082	ATGACAA TTAACCT ATGACAA	1
4270	CHIP3439	STM specil	STM0895		ATGAACG TTAACCT ATGAACG	1
4271	CHIP3455	STM specific			ATGAAAA TTATGCG ATGAAAA	0
4272	CHIP3471	STM specil	STM0928		ATGACCA TTAATTG TTGACCA	1
4273	CHIP2349	STM/STY	STM1310	STY1803	ATGACTC TTACCTT ATGACTC	1
4274	CHIP2365	STM/STY	STM1437	STY1685	ATGAATA TTAACCT ATGAATA	1
4275	CHIP2954	STM/STY	STM1984	STY2192	ATGGTGA TTAACCG GTGGTGA	1
4276	CHIP3650	STM specil	STM4423		ATGGCGT TTAATAT TTGGCGT	1
4277	CHIP2994	STM/STY	STM2285	STY2514	ATGAAAT TTATTGC ATGAAAT	1
4278	CHIP3690	STM/STY	STM4499	STY4855	ATGTTTC TTAGAGG ATGTTTC	1
4279	CHIP3684	STM specil	STM4493		ATGCGGA TTACAAT ATGCGGA	1
4280	CHIP3700	STM/STY	STM4518		ATGAAAA TTAGTGG ATGAAAA	1
4281	CHIP2280	STM/STY	STM1136	STY1173	ATGTATC TTAAAGT ATGTATC	1
4282	CHIP2296	STM/STY	STM1296	STY1818	ATGGATG TTAGAAA ATGGATG	1
4283	CHIP2312	STM/STY	STM1446	STY1676	ATGAAAT TTAACCT ATGAAAT	1
4284	CHIP0253	STM/STY	STM1470	STY1652	ATGTCCC TTAATCC ATGTCCC	1
4285	CHIP2314	STM/STY	STM1476	STY1646	ATGGGAC TTAATGC ATGGGAC	1
4286	CHIP2330	STM/STY	STM1154	STY1191	ATGTCAC TTATTCT ATGTCAC	1
4287	CHIP0271	STM/STY	STM2864	STY2986	ATGTTCT TTAACCT ATGTTCT	1
4288	CHIP2370	STM/STY	STM1453	STY1669	ATGAACA TTAATA ATGAACA	1
4289	CHIP2959	STM/STY	STM1990	STY2198	ATGCGTT TTAACCT ATGCGTT	1
4290	CHIP2975	STM/STY	STM2074	STY2283	ATGAGTC TTACAGC ATGAGTC	1
4291	CHIP3905	STM/STY	STM1298	STY1816	ATGCGGT TTATTCC ATGCGGT	1
4292	CHIP0498	STM/STY	STM1444	STY1678	ATGAAAT TTAATCG ATGAAAT	1
4293	CHIP3953	STM/STY	STM1433	STY1689	ATGAGCA TTAACCT ATGAGCA	1
4294	CHIP3969	STM/STY	STM1466	STY1656	ATGAAAA TTATTGT ATGAAAA	1
4295	CHIP0562	STM/STY	STM1415	STY1705	ATGAAGA TTAACCT ATGAAGA	1
4296	CHIP1413	STM/STY	STM3875	STY3903	ATGCAGC TTATTGT ATGCAGC	1
4297	CHIP1319	STM/STY	STM3782	STY4000	ATGAATG TTAGGCA ATGAATG	1
4298	CHIP1431	STM/STY	STM2578	STY2824	ATGGCTG TTAGCCG ATGGCTG	1
4299	CHIP1455	STM/STY	STM0398	STY0433	ATGCTGG TTAATCG ATGCTGG	1
4300	CHIP1471	STM/STY	STM4183	STY4401	ATGATGA TTAAGCC ATGATGA	1
4301	CHIP1399	STM/STY	STM0069	STY0079	ATGAGCT TTAACCT ATGAGCT	1
4302	CHIP3916	STM/STY	STM1322	STY1789	ATGATGT TTAACCG ATGATGT	1
4303	CHIP3918	STM/STY	STM1330	STY1781	ATGAACA TTATCGA ATGAACA	1
4304	CHIP0511	STM/STY	STM1981	STY2189	ATGATCC TTATGGG ATGATCC	1
4305	CHIP3966	STM/STY	STM1462	STY1660	ATGAATG TTAGGCA ATGAATG	1

4306	CHIP3982	STM/STY	STM1489	STY1575	ATGCTGA TTACGCC ATGCTGA	1
4307	CHIP0575	STM/STY	STM2371	STY2602	ATGCATC TTAAGAA/ATGCATC	1
4308	CHIP1434	STM/STY	STM2573	STY2819	ATGAAAA TTATTGC/ATGAAAA	1
4309	CHIP3160	STM specil	STM2617		ATGAACA TTAATTA/ATGAACA	1
4310	CHIP3176	STM/STY	STM3180	STY3358	ATGCTTA/TTAAACG/ATGCTTA/	1
4311	CHIP2060	STM/STY	STM3570	STY4241	ATGATTC/TTATTCA/ATGATTC/	1
4312	CHIP2076	STM/STY	STM3482	STY4314	ATGGATA TTAGTCA/ATGGATA	1
4313	CHIP0970	STM/STY	STM0346	STY0380	ATGAAAA TTAGAAG ATGAAAA/	1
4314	CHIP0986	STM/STY	STM1382	STY1739	ATGTTTA/TTAATTA/ATGTTTA/	1
4315	CHIP1559	STM/STY	STM0465	STY0509	ATGAAAC TTAATAC/ATGAAAC	1
4316	CHIP1591	STM/STY	STM0559	STY0607	ATGTTGA TTATTTCC/ATGTTGA	1
4317	CHIP1999	STM/STY	STM4414	STY4773	ATGAGCT TTATTTCC/ATGAGCT	1
4318	CHIP2015	STM/STY	STM4532	STY4890	ATGGATA TTAGTGG ATGGATA	1
4319	CHIP3179	STM/STY	STM3189	STY3367	ATGTCTT TTACCCC/ATGTCTT	1
4320	CHIP3195	STM/STY	STM3219	STY3397	ATGAGCT TTAATCC/ATGAGCT	1
4321	CHIP3197	STM/STY	STM3221	STY3401	ATGACCT TTATTGT/ATGACCT	1
4322	CHIP2073	STM/STY	STM3491	STY4305	ATGGCGC TTAAGA/ATGGCGC	1
4323	CHIP1522	STM/STY	STM2338	STY2568	ATGTCCC TTAGTGC GTGTCCC	1
4324	CHIP1546	STM/STY	STM2553	STY2800	ATGATGC TTATGAT/ATGATGC	1
4325	CHIP1570	STM/STY	STM0529	STY0577	ATGATCC TTATTGC/ATGATCC	1
4326	CHIP1586	STM/STY	STM0528	STY0576	ATGAAAA TTATTGG/ATGAAAA	1
4327	CHIP0745	STM/STY	STM2909	STY3033	ATGAATG TTACACC/ATGAATG	1
4328	CHIP1812	STM/STY	STM4060	STY3811	ATGCGCA TTAGTGG ATGCGCA	1
4329	CHIP1844	STM/STY	STM0663	STY0708	ATGTACG TTAACA/ATGTACG	1
4330	CHIP1884	STM/STY	STM3406	STY4391	ATGTCAG TTAAGCC ATGTCAG	1
4331	CHIP0682	STM/STY	STM2582	STY2828	ATGGCGA TTAGTGA/ATGGCGA	1
4332	CHIP0698	STM/STY	STM2078	STY2287	ATGTTAA(TTATTGA/ATGTTAA/	1
4333	CHIP1823	STM/STY	STM4009	STY3871	ATGATCG TTAGTCT GTGATCG	1
4334	CHIP1855	STM/STY	STM0879	STY0912	ATGAGCA TTATCCG/ATGAGCA	1
4335	CHIP1887	STM/STY	STM3410	STY4387	ATGAGTT TTAAGAA/ATGAGTT	1
4336	CHIP0597	STM specil	STM2772		ATGGCTA TTAATTC/ATGGCTA	1
4337	CHIP0709	STM/STY	STM1184	STY1223	ATGCGTA TTACCGG/ATGCGTA	1
4338	CHIP0725	STM/STY	STM2580	STY2826	ATGAGCA TTACAGA/ATGAGCA	1
4339	CHIP0592	STM/STY	STM3614	STY4189	ATGAAAA TTAGGAG ATGAAAA/	1
4340	CHIP0704	STM/STY	STM2555	STY2802	ATGTTAA TTATGCG ATGTTAA/	1
4341	CHIP0640	STM/STY	STM1124	STY1159	ATGGGAA TTAGCCA ATGGGAA	0
4342	CHIP0664	STM/STY	STM1467	STY1655	ATGCAAA TTACAGC ATGCAAA	1
4343	CHIP1827	STM/STY	STM0867	STY0900	ATGAGTA TTAGACG ATGAGTA	1
4344	CHIP1859	STM/STY	STM0836	STY0877	ATGAGTC TTACGGC/ATGAGTC	1
4345	CHIP4706	STM/STY	STM1858	STY1993	ATGAAGT TTAGCAA/ATGAAGT	1
4346	CHIP4722	STM/STY	STM2173	STY2403	ATGAACG TTAACA/ATGAACG	1
4347	CHIP3333	STM/STY	STM0725	STY0767	ATGTATT(TTAATGC/TATTGTC/	1
4348	CHIP1222	STM/STY	STM4304	STY4502	ATGAAAC TTATAGG/ATGAAAC	1
4349	CHIP1238	STM/STY	STM1938	STY2146	ATGAAAA TTAATGC/ATGAAAA	1
4350	CHIP1262	STM/STY	STM1679	STY1384	ATGAGGC TTAGTGC ATGAGGC	1
4351	CHIP1264	STM/STY	STM1688	STY1373	ATGGGTC TTACAGT ATGGGTC	1
4352	CHIP0453	STM/STY	STM4262	STY4460	ATGGTGT TTACATT/ATGGTGT	1
4353	CHIP1304	STM/STY	STM0048	STY0057	ATGTCTA TTATGCC/ATGTCTA/	1
4354	CHIP4685	STM/STY	STM1025	STY1039	ATGAAAA TTAGAAA/ATGAAAA	1
4355	CHIP4701	STM/STY	STM1649	STY1420	ATGTCCA TTAATA/ATGTCCA	1
4356	CHIP0142	STM/STY	STM4019	STY3859	ATGAATT(TTAGATA/ATGAATT/	1
4357	CHIP0136	STM/STY	STM3567	STY4244	ATGAAGG TTAGTAC/ATGAAGG	1

4358	CHIP4735	STM/STY	STM2728	STY3669	ATGCAGG TTAATTG/ATGCAGG	1
4359	CHIP3760	STM/STY			ATGATGT TTAAGG/ATGATGT	0
4360	CHIP0400	STM/STY	STM2436	STY2674	ATGATCG TTAGCGA ATGATCG	1
4361	CHIP1251	STM/STY	STM1903	STY2111	ATGATCT TTAGAAA ATGATCT	1
4362	CHIP0440	STM/STY	STM4260	STY4457	ATGAATA TTAAGGT ATGAATA	1
4363	CHIP1733	STM/STY	STM3019	STY3164	ATGGCGC TTAGTCG ATGGCGC	1
4364	CHIP0922	STM/STY	STM3209	STY3388	ATGCCGC TTAGTAC ATGCCGC	1
4365	CHIP1773	STM/STY	STM2877	STY3000	ATGCATT TTATTTG ATGCATT	1
4366	CHIP0019	STM/STY	STM3968	STY3591	ATGTCCA TTACAGC ATGTCCA	1
4367	CHIP0920	STM/STY	STM3838	STY3940	ATGATGT TTAGATA TGTCACT	1
4368	CHIP2181	STM/STY	STM3063	STY3219	ATGCGCA TTATTTAC CGCAGG	1
4369	CHIP0053	STM/STY	STM3929	STY3626	ATGACCA TTAGAGA ATGACCA	1
4370	CHIP2249	STM/STY	STM3100	STY3253	ATGTGAA TTAATC/TGAACGA	1
4371	CHIP0093	STM/STY	STM4152	STY3733	ATGTCTA TTATTTA ATGTCTA	1
4372	CHIP0877	STM/STY	STM0543	STY0589	ATGAGAC TTATTCC ATGAGAC	1
4373	CHIP0893	STM/STY	STM1916	STY2125	ATGGCGC TTACATG ATGGCGC	1
4374	CHIP0909	STM/STY	STM4004	STY3877	ATGTCTG TTAATG/ATGTCTG	1
4375	CHIP1762	STM/STY	STM3014	STY3158	ATGGCTG TTATGCT ATGGCTG	1
4376	CHIP1794	STM/STY	STM4011	STY3869	ATGAGCC TTAACG ATGAGCC	1
4377	CHIP0040	STM/STY	STM3947	STY3612	ATGATGC TTATAAA ATGATGC	1
4378	CHIP0080	STM/STY	STM3899	STY3657	ATGTCAC TTACGCC ATGTCAC	1
4379	CHIP0872	STM/STY	STM1959		ATGGCAC TTAACGC ATGGCAC	0
4380	CHIP0888	STM/STY	STM2946	STY3074	ATGTCCC TTACCT ATGTCCC	1
4381	CHIP2769	STM/STY	STM1567	STY1493	ATGAAAG TTAACGA ATGAAAG	1
4382	CHIP2793	STM/STY	STM1610	STY1454	ATGACCA TTAAGG ATGACCA	1
4383	CHIP2817	STM/STY	STM1646	STY1423	ATGAAGG TTATTTA ATGAAGG	1
4384	CHIP2833	STM/STY	STM1671	STY1393	ATGATGA TTACAGT ATGATGA	1
4385	CHIP1142	STM/STY	STM1542	STY1520	ATGAAAG TTAATGG ATGAAAG	1
4386	CHIP1158	STM/STY	STM1510	STY1551	ATGACCG TTAATCT ATGACCG	1
4387	CHIP1168	STM/STY	STM1000	STY1004	ATGAGCC TTAGAAG ATGAGCC	1
4388	CHIP4452	STM/STY	STM0590	STY0634	ATGACCG TTATCGC ATGACCG	1
4389	CHIP4476	STM/STY	STM0339	STY0372	ATGAAAA TTAATGG ATGAAAA	1
4390	CHIP2860	STM/STY	STM1741	STY1310	ATGTCAC TTAATCC ATGTCAC	1
4391	CHIP2780	STM/STY	STM1589	STY1476	ATGATGG TTACGCA TTGATGG	1
4392	CHIP2900	STM/STY	STM1835	STY1964	ATGTCGT TTAACGG ATGTCGT	1
4393	CHIP2806	STM specil	STM1629		ATGCCTA TTATCTG ATGCCTA	1
4394	CHIP2926	STM/STY	STM1884	STYkdgA	ATGAAAA TTAATGC ATGAAAA	1
4395	CHIP2942	STM/STY	STM1932	STY2141	ATGGCAG TTAGTGA ATGGCAG	1
4396	CHIP4407	STM/STY	STM0515	STYglxA2	ATGAAAC TTACGCA ATGAAAC	1
4397	CHIP4423	STM/STY	STM0537	STY0585	ATGTTAA TTAATTA ATGTTAA	1
4398	CHIP4439	STM specil	STM0572		ATGTCTG TTAATAT ATGTCTG	1
4399	CHIP4345	STM/STY	STM0393	STY0426	ATGCGTA TTACGCC GTGCGTA	1
4400	CHIP4281	STM/STY	STM3150	STY3321	ATGACTG TTATTTCT ATGACTG	1
4401	CHIP4585	STM/STY	STM2831	STY2952	ATGTTCA TTAGCGC ATGTTCA	1
4402	CHIP2489	STM/STY	STM3632	STY4165	ATGGCAC TTATTTCT ATGGCAC	1
4403	CHIP4625	STM/STY	STM4509	STY4865	ATGGACC TTATCGC ATGGACC	1
4404	CHIP4649	STM/STY	STM2395	STY2632	ATGAAAA TTAGAAG ATGAAAA	1
4405	CHIP2539	STM/STY	STM3765	STY4021	ATGGGTT TTAAGCG ATGGGTT	1
4406	CHIP4212	STM/STY	STM2992	STY3130	ATGATAA TTATCCT ATGATAA	1
4407	CHIP4228	STM/STY	STM3026	STY3174	ATGTCCA TTAGTTA ATGTCCA	1
4408	CHIP4260	STM/STY	STM3105	STY3258	ATGGTTC TTATTTA ATGGTTC	1
4409	CHIP4380	STM/STY	STM0464	STY0508	ATGAGTC TTAATTG ATGAGTC	1

4410	CHIP4596	STM/STY	STM2803	STY2926	ATGCCGC TTACTGT/ATGCCGC	1
4411	CHIP2526	STM/STY	STM3725	STY4069	ATGCAA TTATTTCT/ATGCAA	1
4412	CHIP4199	STM/STY	STM2972	STY3111	ATGCTCG TTACCGC ATGCTCG	1
4413	CHIP4223	STM/STY	STM3018	STY3163	ATGGACG TTAGCGC GTGGACG	1
4414	CHIP4247	STM specil	STM3081		ATGTCAA TTAGCCA ATGTCAA	1
4415	CHIP4271	STM/STY	STM3125	STY3294	ATGTCCT TTATCTG/ATGTCCT	1
4416	CHIP4583	STM/STY	STM2829	STY2950	ATGGCTA TTAATAA/ATGGCTA	1
4417	CHIP1669	STM/STY	STM2117	STY2330	ATGTTTA TTATGGT ATGTTTA	1
4418	CHIP1685	STM/STY	STM2243		ATGATTT(TTACCAA)GTGATTT	1
4419	CHIP2085	STM/STY	STM3712	STY4083	ATGCCGC TTAATGA/ATGCCGC	1
4420	CHIP1917	STM/STY	STM3436	STY4362	ATGCCAC TTATTTCT/ATGCCAC	1
4421	CHIP2133	STM/STY	STM3329	STY3508	ATGCAGT TTACGCT/ATGCAGT	1
4422	CHIP2149	STM/STY	STM3251	STY3433	ATGAACA TTAATTTCT/ATGAACA	1
4423	CHIP2111	STM/STY	STM3592	STY4211	ATGAATA(TTACTGT)ATGAATA	1
4424	CHIP2127	STM/STY	STM0951	STY0949	ATGAAAC TTAGATT ATGAAAC	1
4425	CHIP1959	STM/STY	STM4444	STY4783	ATGGAAG TTAGCTA/ATGGAAG	1
4426	CHIP1975	STM/STY	STM4570	STY4921	ATGGCAA TTAATCT/ATGGCAA	1
4427	CHIP4484	STM specil	STM0352		ATGCGTA TTATTGG/ATGCGTA	1
4428	CHIP4500	STM/STY	STM1300	STY1814	ATGCGCC TTATAGC/ATGCGCC	1
4429	CHIP1985	STM/STY	STM4328	STY4688	ATGCCGC TTACGCC ATGCCGC	1
4430	CHIP1618	STM/STY	STM2819	STY2945	ATGAGTG TTACCAC/ATGAGTG	1
4431	CHIP4526	STM/STY	STM2196	STY2430	ATGGAGA TTACCTCT/ATGGAGA	1
4432	CHIP4542	STM specil	STM2233		ATGAGCA TTATTTTA/ATGAGCA	1
4433	CHIP4558	STM/STY	STM2151	STY2380	ATGAAAA TTATTTTA/ATGAAAA	1
4434	CHIP4574	STM/STY	STM2179	STY2409	ATGACTC TTATTCG/ATGACTC	1
4435	CHIP0361	STM/STY	STM1400	STY1720	ATGAATC TTAAGCG ATGAATC	1
4436	CHIP2268	STM/STY	STM1069	STY1090	ATGAAAT TTACTTC/ATGAAAT	1
4437	CHIP3352	STM specil	STM0764		ATGTATA TTATATT/ATGTATA	1
4438	CHIP3400	STM/STY	STM0834	STY0875	ATGAATT(TTATTTTA)ATGAATT	1
4439	CHIP0306	STM/STY	STM1302	STY1812	ATGAAAT TTAACA(ATGAAAT	1
4440	CHIP2213	STM/STY	STM3250	STY3432	ATGGCCA TTAGGTC ATGGCCA	1
4441	CHIP3387	STM/STY	STM0815	STY0850	ATGTTTC TTACATC/ATGTTTC	1
4442	CHIP2184	STM/STY	STM3056	STY3212	ATGCAA TTAACGA/ATGCAA	1
4443	CHIP0317	STM/STY	STM1958	STYnml	ATGAAAG TTATGTC/ATGAAAG	1
4444	CHIP2224	STM/STY	STM3224	STY3404	ATGAATA TTATTGC/ATGAATA	1
4445	CHIP2256	STM/STY	STM3075	STY3233	ATGCCAG TTATTCT/ATGCCAG	1
4446	CHIP2272	STM/STY	STM1097	STY1129	ATGAAAC TTAGCTC/ATGAAAC	1
4447	CHIP0312	STM/STY	STM2875	STY2996	ATGGAAA TTAATGG/ATGGAAA	1
4448	CHIP0328	STM/STY	STM3758	STY4029	ATGTTAG TTAATGC/ATGTTAG	1
4449	CHIP2235	STM/STY	STM3167	STY3341	ATGACCT TTATGCC/ATGACCT	1
4450	CHIP0368	STM/STY	STM1406	STY1714	ATGGATA TTAGATT/ATGGATA	1
4451	CHIP2275	STM/STY	STM1107	STY1141	ATGAGCG TTAAGGG/ATGAGCG	1
4452	CHIP3359	STM/STY	STM0778	STY0811	ATGTCAT(TTAATTA)ATGTCAT	1
4453	CHIP1552	STM/STY	STM2484	STY2722	ATGGACT TTAATTT/ATGGACT	1
4454	CHIP1529	STM/STY	STM2539	STY2785	ATGGCCT TTAACCC/ATGGCCT	1
4455	CHIP1554	STM/STY	STM2482	STY2720	ATGATTA(TTACACC)ATGATTA	1
4456	CHIP1579	STM/STY	STM0480	STY0524	ATGTCGC TTAATCT/ATGTCGC	1
4457	CHIP1696	STM/STY	STM1797	STY1925	ATGGGAA TTAGCCG/ATGGGAA	1
4458	CHIP3536	STM/STY	STM4194	STY4411	ATGGCAC TTAACGT/ATGGCAC	1
4459	CHIP2014	STM/STY	STM4531	STY4889	ATGTTTG TTAACAA(ATGTTTG	1
4460	CHIP2067	STM/STY	STM3525	STY4278	ATGAAAG TTACGCG/ATGAAAG	1
4461	CHIP2116	STM/STY	STM3565	STY4247	ATGAAGC TTAGCGC/ATGAAGC	1

4462	CHIP3598	STM/STY	STM4314	STY4514	ATGAGAT TTACGTA TTGAGAT	1
4463	CHIP3559	STM specil	STM4218		ATGCGAA TTACAGC ATGCGAA	1
4464	CHIP4041	STM/STY	STM2731	STY4638	ATGGCTG TTATACA ATGGCTG	1
4465	CHIP2498	STM/STY	STM3658	STY4140	ATGCAGC TTAGCTA ATGCAGC	1
4466	CHIP3728	STM specil	STM4574		ATGAAAA TTAGAGA ATGAAAA	1
4467	CHIP3775	STM/STY	STM0318	STY0363	ATGACAC TTAACAC ATGACAC	1
4468	CHIP1311	STM/STY	STM0004	STY0004	ATGAGAC TTATTATTAGACCAT	1
4469	CHIP3979	STM/STY	STM1485	STY1582	ATGGGGT TTACGCA GTGGGGT	1
4470	CHIP3956	STM/STY	STM1438	STY1684	ATGTTTCG TTA AAAAG ATGTTTCG	0
4471	CHIP2621	STM/STY	STM0030	STY0036	ATGCGGC TTA AACCC ATGCGGC	1
4472	CHIP2637	STM/STY	STM0064	STY0073	ATGCATG TTATAAT ATGCATG	1
4473	CHIP2622	STM/STY	STM0031	STY0038	ATGACTA TTATCGT ATGACTA	1
4474	CHIP2623	STM/STY	STM0034	STY0041	ATGAAAA TTA AAC ATGAAAA	1
4475	CHIP4498	STM/STY	STM1159	STY1197	ATGCGTC TTAGAAG ATGCGTC	1
4476	CHIP3096	STM specil	STM2508		ATGGACC TTA ACTA GTGGACC	1
4477	CHIP3217	STM/STY	STM3272	STY3455	ATGCTAA TTA AAAA ATGCTAA	1
4478	CHIP3198	STM/STY	STM3232	STY3412	ATGAAAA TTACCAC ATGAAAA	1
4479	CHIP3443	STM specil	STM0899		ATGAACA TTA CTTA ATGAACA	1
4480	CHIP3500	STM/STY	STM0987	STY0989	ATGGATC TTATGAT ATGGATC	1
4481	CHIP3462	STM specil	STM0919		ATGGAGA TTA AACG ATGGAGA	1
4482	CHIP3346	STM/STY	STM0757	STY0798	ATGGATT TTA ACGG ATGGATT	1
4483	CHIP1070	STM specil	PSLT053		ATGATGT TTATTGA GTGATGT	1
4484	CHIP1110	STM specil	PSLT101		ATGAACG TTA CTGT GTGAACG	1
4485	CHIP1079	STM specil	PSLT065		ATGCGCA TTACGGC TGTCGCA	1
4486	CHIP0169	STM specil	PSLT077		ATGAGCG TTAGAGG ATGAGCG	1
4487	CHIP0419	STM specil	PSLT017		ATGTCAT TTATTCAC GTGTCAT	1
4488	CHIP0421	STM specil	PSLT014		ATGTTAA TTATTGC ATGTTAA	1
4489	CHIP4754	STM specil	PSLT059		GATGTCC CGGCCTC GATGTCC	1
4490	CHIP4758	STM/STY	STM1919	STY2128	TTTAACC CCTTCAC TTTAACC	1
4491	CHIP4762	STM/STY			TGCGCTC AAGTCAT TGCGCTC	0
4492	CHIP4766	STM/STY			AACCCAC CGTCAAT AACCCAC	0
4493	CHIP4770	STM/STY			ATTTTCG TTTCAA ATTTTCG	0
4494	CHIP4774	STM/STY	STM0291	STY0321	TTATGGC CGGTGCA TTATGGC	1
4495	CHIP4850	STM/STY			CACAGCC GCCGGAC CACAGCC	0
4496	CHIP4854	STM/STY			AATGCAT TCTGTCG AATGCAT	0
4497	CHIP4858	STM specific			GTTGAGC GCATTTG GTTGAGC	0
4498	CHIP4862	STM specific			AGCCAGC AAATTAC AGCCAGC	0
4499	CHIP4866	STM/STY			GAAAAAG GGTTAAC GAAAAAG	0
4500	CTRL005	none			human plac	0
4501	CHIP5112	STY specific		STY2053	ATGGATA TTA ACAG GTGGATA	0
4502	CHIP5218	STM/STY		STY3632	ATGAAAG TTA ATAC ATGAAAG	0
4503	CHIP5233	STY specific		STY3670	ATGAAAC TTAGTTG ATGAAAC	0
4504	CHIP5255	STY specific		STY2889	ATGCTTA TTAGGGA ATGCTTA	0
4505	CHIP5271	STY specific		STY3950	ATGAGGA TTA ATGA TTGAGGA	0
4506	CHIP5014	STM/STY		STY1545	ATGAAAC TTACGCG ATGAAAC	0
4507	CHIP5130	STY specific		STY2071	ATGACTA TTA AAGT ATGACTA	0
4508	CHIP5146	STY specific		STY2349	ATGATAA TTATTCAT GTGATAA	0
4509	CHIP5162	STM/STY			ATGAAAA TTAGGCT ATGAAAA	0
4510	CHIP5265	STY specific		STY3918	ATGAAAC TTATTTT ATGAAAC	0
4511	CHIP5008	STY specific		STY1361	ATGGCTA TTAGCGC ATGGCTA	0
4512	CHIP5024	STY specific		STY1599	ATGATTA TTAGTGC ATGATTA	0
4513	CHIP5148	STY specific		STY2351	ATGAAGT TTA ATTA ATGAAGT	0

4514	CHIP5164	STY specific		STY2748	ATGAAGA TTAGTTA/ATGAAGA	0
4515	CHIP5178	STY specific			ATGATCA TTAGGGAATGATCA	0
4516	CHIP4915	STY specific		STY0203	ATGATAA TTAGTGG ATGATAA	0
4517	CHIP4931	STY specific		STY0323	ATGACCG TTAGGTG ATGACCG	0
4518	CHIP4947	STM/STY		STY0479	ATGATAA TTATTCA/ATGATAA	0
4519	CHIP5253	STY specific		STY3692	ATGAAAC TTACGCC ATGAAAC	0
4520	CHIP5269	STY specific		STY3948	ATGAAAA TTAAAAG/ATGAAAA	0
4521	CHIP5283	STY specific		STY4208	ATGTTCC TTAACGA/ATGTTCC	0
4522	CHIP5297	STY specific		STY4521	ATGCAAA TTATACC ATGCAAA	0
4523	CHIP5320	STY specific		STY4554	ATGAATG TTAGGAA ATGAATG	0
4524	CHIP5334	STY specific		STY4573	ATGAATC TTAGGCC ATGAATC	0
4525	CHIP5397	STY specific		STY4672	ATGGCTA TTATGCT/ATGGCTA	0
4526	CHIP5413	STY specific		STY4825	ATGACCA TTACCGT GTGACCA	0
4527	CHIP5354	STY specific		STY4594	ATGAGCA TTATGCA/ATGAGCA	0
4528	CHIP5287	STY specific		STY4222	ATGAAAA TTATTCA/ATGAAAA	0
4529	CHIP5302	STY specific		STY4526	ATGACTT TTAGGCT ATGACTT	0
4530	CHIP5317	STY specific		STY4550	ATGAAAA TTATAAT/ATGAAAA	0
4531	buffer	none			buffer	0
4532	empty	none			empty	0
4533	empty	none			empty	0
4534	empty	none			empty	0
4535	empty	none			empty	0
4536	empty	none			empty	0
4537	CHIP0771	STM/STY	STM2895	STY3018	ATGCAAC TTATCTC/ATGCAAC	1
4538	CHIP0795	STM/STY	STM0488	STY0532	ATGCGTA TTAACCG ATGCGTA	1
4539	CHIP0811	STM/STY	STM2027	STY2232	ATGTTGA TTACAGC ATGTTGA	1
4540	CHIP0827	STM/STY	STM3788	STY3994	ATGCTTT/TTACGCT ATGCTTT	1
4541	CHIP2634	STM/STY	STM0060	STY0069	ATGAGAC TTAATCA/ATGAGAC	1
4542	CHIP2650	STM/STY	STM0090	STY0105	ATGAATA TTAACTC ATGAATA	1
4543	CHIP0845	STM/STY	STM0231	STY0254	ATGTCTG TTAGTCA/ATGTCTG	1
4544	CHIP3236	STM/STY	STM3306	STY3485	ATGGAAA TTAGTCT/ATGGAAA	1
4545	CHIP3252	STM/STY	STM3344	STY3524	ATGGCTG TTAACGT ATGGCTG	1
4546	CHIP3268	STM/STY	STM3377	STY3557	ATGATGA TTAATAA/ATGATGA	1
4547	CHIP3284	STM/STY	STM0639	STY0690	ATGACGG TTATACG/ATGACGG	1
4548	CHIP3300	STM/STY	STM0662	STY0707	ATGATTA TTAGTGC ATGATTA	1
4549	CHIP2686	STM/STY	STM0169	STY0191	ATGGCAG TTATTTT/ATGGCAG	1
4550	CHIP2702	STM/STY	STM0188	STY0213	ATGTCTG TTATTCG/ATGTCTG	1
4551	CHIP2718	STM/STY	STM0224	STY0247	ATGGCGA TTACCAG ATGGCGA	1
4552	CHIP2734	STM/STY	STM1508	STY1553	ATGCAAA TTATTTT/ATGCAAA	1
4553	CHIP2750	STM/STY	STM1540	STY1522	ATGATGA TTATCCT ATGATGA	1
4554	CHIP2575	STM specil	STM3830		ATGACTC TTATGTG/ATGACTC	1
4555	CHIP2456	STM/STY	STM3569	STY4242	ATGAATA TTAATCG/ATGAATA	1
4556	CHIP3721	STM/STY	STM4559	STY4909	ATGATGA TTAGTGT ATGATGA	1
4557	CHIP3745	STM/STY	STM0257	STY0278	ATGCCTC TTAGTCC/ATGCCTC	1
4558	CHIP3769	STM/STY	STM0309	STY0354	ATGATGA TTATGCG ATGATGA	1
4559	CHIP3785	STM specil	STM0332		ATGGCTA TTATAAC/ATGGCTA	1
4560	CHIP3801	STM/STY	STM1068	STY1089	ATGACCA TTAGTTC/ATGACCA	1
4561	CHIP4035	STM/STY	STM2720		ATGAAAA TTAGTCT/ATGAAAA	1
4562	CHIP3763	STM specil	STM0294		ATGCTGC TTAGGCA ATGCTGC	1
4563	CHIP4075	STM specil	STM2768		ATGACAA TTATTTT/ATGACAA	1
4564	CHIP3803	STM/STY	STM1073	STY1095	ATGTTAA TTACGGC ATGTTAA	1
4565	CHIP3827	STM/STY	STM1119	STY1155	ATGGCAA TTAGCCG ATGGCAA	1

4566	CHIP3843	STM/STY	STM1156	STY1193	ATGCCAG T TACTCA (ATGCCAG	1
4567	CHIP4093	STM/STY	STM3994	STY3886	ATGAATC T TATGGT (GTGAATC	1
4568	CHIP3821	STM/STY	STM1104	STY1138	ATGCCGC T TATTTA (ATGCCGC	1
4569	CHIP3837	STM/STY	STM1138	STY1175	ATGTGCG T TATTTT (GTGTGCC	1
4570	CHIP3853	STM/STY	STM1196	STY1235	ATGAGCA T TACGCC (ATGAGCA	1
4571	CHIP3869	STM/STY	STM1216	STY1256	ATGCCTG T TATGCA (ATGCCTG	1
4572	CHIP2445	STM/STY	STM3538	STY4272	ATGTCCA T TATTCC (ATGTCCA	1
4573	CHIP3839	STM/STY	STM1150	STY1187	ATGATGA T TATTCA (ATGATGA	1
4574	CHIP2415	STM/STY	STM3495	STY4301	ATGAGCA T TAGATG (ATGAGCA	1
4575	CHIP2431	STM specil	STM3519		ATGATGA T TATCCT (ATGATGA	1
4576	CHIP3895	STM/STY	STM1283	STY1834	ATGAATT T TATGAT (ATGAATT	1
4577	CHIP4096	STM/STY	STM4012	STY3867	ATGAATA T TATCTC (ATGAATA	1
4578	CHIP4120	STM/STY	STM4087	STY3783	ATGAGTC T TACAGC (ATGAGTC	1
4579	CHIP3538	STM specil	STM4196		ATGATTA T TAAACGC (ATGATTA	1
4580	CHIP3554	STM specil	STM4212		ATGGCTG T TAAACCG (ATGGCTG	1
4581	CHIP3578	STM/STY	STM4268	STY4466	ATGTCTA T TAGATA (ATGTCTA	1
4582	CHIP3594	STM/STY	STM4305	STY4503	ATGACGC T TAAAGCG (GTGACGC	1
4583	CHIP4186	STM specil	STM2941		ATGACAA T TACGCG (ATGACAA	1
4584	CHIP3434	STM/STY	STM0889	STY0922	ATGAACG T TAGTCC (ATGAACG	1
4585	CHIP3060	STM/STY	STM2415	STY2654	ATGAAAA T TACTGC (ATGAAAA	1
4586	CHIP3460	STM specil	STM0917		ATGATGC T TAAATGA (GTGATGC	1
4587	CHIP3476	STM/STY	STM0939	STY0935	ATGATTC T TAAATCC (ATGATTC	1
4588	CHIP3508	STM/STY	STM1002	STY1006	ATGCATG T TAAAGCA (ATGCATG	1
4589	CHIP3541	STM specil	STM4199		ATGACTC T TATGGT (ATGACTC	1
4590	CHIP4133	STM specil	STM4110		ATGTGTA T TACAGT (GTGTGTA	1
4591	CHIP3591	STM/STY	STM4290	STY4489	ATGCTGA T TATTCA (ATGCTGA	1
4592	CHIP3607	STM/STY	STM4334	STY4694	ATGGCGA T TATTTT (ATGGCGA	1
4593	CHIP3047	STM/STY	STM2383	STY2615	ATGAAAA T TAGAGT (ATGAAAA	1
4594	CHIP3063	STM/STY	STM2423	STY2659	ATGAAAA T TAAAAC (ATGAAAA	1
4595	CHIP3079	STM/STY	STM2476	STY2713	ATGCGCT T TAAACGC (ATGCGCT	1
4596	CHIP3095	STM/STY	STM2506		ATGAGTC T TAAACGT (GTGAGTC	0
4597	CHIP0274	STM/STY	STM2876	STY2999	ATGCCAC T TACCGT (ATGCCAC	1
4598	CHIP3618	STM/STY	STM4351	STY4711	ATGAAAA T TACTGC (ATGAAAA	1
4599	CHIP3634	STM/STY	STM4392	STY4748	ATGACCA T TAGTCT (ATGACCA	1
4600	CHIP2978	STM/STY	STM2259	STY2485	ATGAAAC T TACACC (ATGAAAC	1
4601	CHIP3674	STM/STY	STM4482		ATGCCAT T TAAATGC (ATGCCAT	1
4602	CHIP3018	STM/STY	STM2335	STY2565	ATGGAAA T TAGGCA (ATGGAAA	1
4603	CHIP3012	STM/STY	STM2326	STY2556	ATGGTGA T TAGCGG (ATGGTGA	1
4604	CHIP3708	STM specil	STM4534		ATGCGCA T TAAAAC (ATGCGCA	1
4605	CHIP0205	STM/STY	STM1954	STY2162	ATGAAAT T TATTGG (ATGAAAT	1
4606	CHIP0221	STM/STY	STM3443	STY4355	ATGAAAG T TAAATCG (ATGAAAG	1
4607	CHIP2320	STM/STY	STM1074	STY1096	ATGCGTA T TATTCA (ATGCGTA	1
4608	CHIP2336	STM/STY	STM1222	STY1262	ATGAAAA T TAGCGT (ATGAAAA	1
4609	CHIP0239	STM/STY	STM2468	STY2704	ATGAAAA T TATACG (GTGAAAA	1
4610	CHIP2338	STM/STY	STM1225	STY1265	ATGAAGA T TAAATCG (ATGAAGA	1
4611	CHIP2354	STM/STY	STM1328	STY1783	ATGAACA T TAGAAG (GTGAACA	1
4612	CHIP3623	STM/STY	STM4371	STY4728	ATGGGAA T TATTCG (ATGGGAA	1
4613	CHIP3639	STM/STY	STM4405	STY4763	ATGACCT T TATTTAC (ATGACCT	1
4614	CHIP3655	STM specil	STM4428		ATGCCAG T TAAATGT (ATGCCAG	1
4615	CHIP0482	STM/STY	STM1145	STY1182	ATGCATA T TACTGT (ATGCATA	1
4616	CHIP0506	STM/STY	STM1862	STY2000	ATGCGCA T TATTTCT (ATGCGCA	1
4617	CHIP0530	STM/STY	STM1751	STY1299	ATGAGCG T TATTCC (ATGAGCG	1

4618	CHIP0546	STM/STY	STM1173	STY1212	ATGCAAA TTATAGG ATGCAAA	1
4619	CHIP3993	STM specil	STM2087		ATGCTTA TTA CTTA ATGCTTA	1
4620	CHIP1325	STM/STY	STM3796	STY3986	ATGGCAA TTATTCC ATGGCAA	1
4621	CHIP1415	STM/STY	STM3864	STY3914	ATGGCAA TTACATC ATGGCAA	1
4622	CHIP1439	STM/STY	STM2641	STY2834	ATGATGA TTATCTA ATGATGA	1
4623	CHIP1367	STM/STY	STM0243	STY0270	ATGAGCA TTACCGT ATGAGCA	1
4624	CHIP1383	STM/STY	STM0094	STY0109	ATGCAGT TTA CTTG ATGCAGT	1
4625	CHIP1495	STM/STY	STM2382	STY2614	ATGGACA TTAATTC ATGGACA	1
4626	CHIP3924	STM/STY	STM1344	STY1766	ATGATTG TTATCGC ATGATTG	1
4627	CHIP3926	STM/STY	STM1348	STY1762	ATGGATA TTAGTAC ATGGATA	1
4628	CHIP0519	STM/STY	STM0999	STY1002	ATGATGA TTAGAAC ATGATGA	1
4629	CHIP0543	STM/STY	STM3562	STY4250	ATGAAAC TTATGCC ATGAAAC	1
4630	CHIP0559	STM/STY	STM1412	STY1708	ATGGTGA TTAGAAAT ATGGTGA	1
4631	CHIP1330	STM/STY	STM2257	STY2483	ATGGCAA TTACCGC ATGGCAA	1
4632	CHIP1346	STM/STY	STM0279	STY0302	ATGTCTT TTA AATT ATGTCTT	0
4633	CHIP2020	STM/STY	STM4556	STY4906	ATGTCTG TTATTTCT ATGTCTG	1
4634	CHIP2044	STM/STY	STM3644	STY4158	ATGACCC TTATGAG TTGACCC	1
4635	CHIP3208	STM/STY	STM3257	STY3439	ATGAAAG TTAGGCG GTGAAAG	1
4636	CHIP3224	STM/STY	STM3281	STY3462	ATGAAGC TTATTGC ATGAAGC	1
4637	CHIP1517	STM/STY	STM2414	STY2653	ATGAAAA TTAGTCC ATGAAAA	1
4638	CHIP1533	STM/STY	STM2521	STY2766	ATGAGCA TTAGATG GTGAGCA	0
4639	CHIP1567	STM/STY	STM0510	STY0558	ATGGGAT TTAGGGT ATGGGAT	1
4640	CHIP1599	STM/STY	STM0606	STY0651	ATGGCTA TTAATGT ATGGCTA	1
4641	CHIP3147	STM specil	STM2603		ATGGGAT TTAACCG ATGGGAT	1
4642	CHIP2023	STM/STY	STM4576	STY4923	ATGACAA TTAGCGC ATGACAA	1
4643	CHIP2039	STM/STY	STM3667	STY4131	ATGAGCC TTATTCG ATGAGCC	1
4644	CHIP2055	STM/STY	STM3606	STY4197	ATGCAGC TTAATTC ATGCAGC	1
4645	CHIP2057	STM/STY	STM3602	STY4201	ATGATCG TTATACG ATGATCG	1
4646	CHIP3221	STM specil	STM3277		ATGGGGC TTAAGGA ATGGGGC	1
4647	CHIP0983	STM/STY	STM4457	STY4797	ATGGTAA TTATTCA ATGGTAA	1
4648	CHIP1015	STM/STY	STM1379	STY1743	ATGAAAA TTAATCG ATGAAAA	1
4649	CHIP1031	STM/STY	STM4293	STY4492	ATGTTAA TTATTCG ATGTTAA	1
4650	CHIP1047	STM/STY	STM1169	STY1207	ATGAGAA TTATTCG GTGAGAA	1
4651	CHIP0753	STM/STY	STM2458	STY2695	ATGAAAC TTAGAAG ATGAAAC	1
4652	CHIP1820	STM/STY	STM4028	STY3850	ATGATTG TTATACC ATGATTG	1
4653	CHIP1852	STM/STY	STM0633	STY0683	ATGAGTA TTATTTCT ATGAGTA	1
4654	CHIP0578	STM/STY	STM1420	STY1700	ATGAATG TTAACCA ATGAATG	1
4655	CHIP0594	STM/STY	STM2035	STY2240	ATGGCGC TTATAAT ATGGCGC	1
4656	CHIP0610	STM/STY	STM3699	STY4096	ATGCCGT TTAGATG ATGCCGT	1
4657	CHIP1831	STM/STY	STM0811	STY0846	ATGGCTA TTATTTCT ATGGCTA	1
4658	CHIP1863	STM/STY	STM0783	STY0816	ATGCTGG TTAGGCG ATGCTGG	1
4659	CHIP0581	STM/STY	STM1378	STY1744	ATGAAAA TTAGAGT ATGAAAA	1
4660	CHIP0693	STM/STY	STM2351	STY2581	ATGATGT TTATTTCT ATGATGT	1
4661	CHIP0621	STM/STY	STM0113	STY0132	ATGAGCC TTACACG ATGAGCC	1
4662	CHIP0637	STM/STY	STM0209	STY0231	ATGAAAA TTA CTGC ATGAAAA	1
4663	CHIP0688	STM/STY	STM0451	STY0493	ATGAATA TTAGTTT GTGAATA	1
4664	CHIP0624	STM/STY	STM3409	STY4388	ATGAAAA TTAGAGG ATGAAAA	1
4665	CHIP0736	STM/STY	STM2881	STY3004	ATGAATA TTA CACC ATGAATA	1
4666	CHIP0760	STM/STY	STM0546	STY0593	ATGAAGA TTATGAC ATGAAGA	1
4667	CHIP1835	STM/STY	STM0729	STY0772	ATGCCGA TTA CAAA ATGCCGA	1
4668	CHIP1867	STM/STY	STM0739	STY0782	ATGTCCG TTATTTT ATGTCCG	1
4669	CHIP0131	STM/STY	STM4174	STY3711	ATGATAC TTAACGG GTGATAC	1

4670	CHIP0147	STM/STY	STM3593	STY4210	ATGCAAA T TACTCC GTGCAAA	1
4671	CHIP0179	STM/STY	STM2040	STY2245	ATGAGAT TTAATCA ATGAGAT	1
4672	CHIP0395	STM/STY	STM2883		ATGCTTA TTATCCT ATGCTTA	1
4673	CHIP0411	STM/STY	STM2322	STY2552	ATGAGTT TTATTGC ATGAGTT	1
4674	CHIP1270	STM/STY	STM3364	STY3545	ATGGGCA TTAGCTA ATGGGCA	1
4675	CHIP0437	STM/STY	STM4257	STY4452	ATGGAAG TTAGATA ATGGAAG	0
4676	CHIP1288	STM/STY	STM2669	STY2856	ATGGTTG TTATGGT ATGGTTG	1
4677	CHIP0477	STM/STY	STM1140	STY1177	ATGCGTG TTAATAA ATGCGTG	1
4678	CHIP0110	STM/STY	STM4024	STY3854	ATGGTTC TTATACA ATGGTTC	1
4679	CHIP0126	STM/STY	STM4169	STY3716	ATGTTAC TTATTGC ATGTTAC	1
4680	CHIP4733	STM/STY	STM2846	STY2968	ATGAGCC TTAGTCA ATGAGCC	1
4681	CHIP0144	STM/STY	STM4017	STY3861	ATGTCTA TTAATTA ATGTCTA	1
4682	CHIP0160	STM/STY	STM0670	STY0716	ATGACTA TTAAGGC ATGACTA	1
4683	CHIP4375	STM/STY	STM0456	STY0498	ATGATCA TTACGGA ATCAATA	1
4684	CHIP1235	STM/STY	STM4277	STY4475	ATGGCAA TTATTGG ATGGCAA	1
4685	CHIP1259	STM/STY	STM1669	STY1395	ATGGTTT TTAATTC GTGGTTT	1
4686	CHIP1275	STM/STY	STM3383	STY3563	ATGCCAT TTATTTCA TGCCAT	1
4687	CHIP1741	STM/STY	STM2988	STY3128	ATGAAAG TTAGCCG ATGAAAG	1
4688	CHIP1757	STM/STY	STM2916	STY3041	ATGACGA TTATCTC ATGACGA	1
4689	CHIP1781	STM/STY	STM4058	STY3813	ATGATAG TTAGGTT ATGATAG	1
4690	CHIP0512	STM/STY	STM0864	STY0897	ATGAAAC TTAATTT AACCGC	1
4691	CHIP0043	STM/STY	STM3943	STY3616	ATGAACG TTAGCGA ATGAACG	1
4692	CHIP0075	STM/STY	STM3904	STY3653	ATGCCTA TTAACCT ATGCCTA	1
4693	CHIP1401	STM/STY	STM0073	STY0083	ATGATGA TTAAGCG ATGACGA	1
4694	CHIP0077	STM/STY	STM3902	STY3655	ATGCAAC TTAGGCG ATGCAAC	1
4695	CHIP3102	STM/STY	STM2524	STY2769	ATGATGA TTACCGG ATGAATA	1
4696	CHIP1712	STM/STY	STM1814	STY1944	ATGATAA TTAATTC ATGATAA	1
4697	CHIP1728	STM/STY	STM1730	STY1321	ATGAATT TTATTTT ATGAATT	1
4698	CHIP1744	STM/STY	STM2974	STY3113	ATGGAAC T TACTCT ATGGAAC	1
4699	CHIP1770	STM/STY	STM2936	STY3061	ATGTTTT TTAGGAC ATGTTTT	1
4700	CHIP0024	STM/STY	STM3963	STY3596	ATGGCGC TTATTCG GTGGCGC	0
4701	CHIP0048	STM/STY	STM3938	STY3621	ATGACGC TTATGCG ATGACGC	1
4702	CHIP0088	STM/STY	STM4147	STY3738	ATGAGTG TTAGAAC ATGAGTG	1
4703	CHIP1707	STM/STY	STM1826	STY1956	ATGCGCA TTAATCA ATGCGCA	1
4704	CHIP1723	STM/STY	STM1771	STY1281	ATGACAC TTAGGCA ATGACAC	1
4705	CHIP2873	STM/STY	STM1781	STY1907	ATGATGC T TAACTG GTGATGC	1
4706	CHIP2897	STM/STY	STM1832	STY1961	ATGAGCC TTACTGG GTGAGCC	1
4707	CHIP2921	STM/STY	STM1874	STY2080	ATGATGC TTAATAA ATGATGC	1
4708	CHIP2937	STM/STY	STM1901	STY2109	ATGCGTA TTAGTTA ATGCGTA	1
4709	CHIP4410	STM/STY	STM0518	STY0566	ATGTTAC TTAACGG ATGTTAC	1
4710	CHIP4426	STM/STY	STM0540	STY0586	ATGCCTA TTATTCAT ATGCCTA	1
4711	CHIP4436	STM/STY	STM0567	STY0615	ATGAATA TTACCCT ATGAATA	1
4712	CHIP1192	STM/STY	STM1584	STY1481	ATGAAAA TTATGTC ATGAAAA	1
4713	CHIP1216	STM/STY	STM1618	STY1446	ATGCTGA TTAACGC ATGCTGA	1
4714	CHIP2764	STM/STY	STM1558	STY1505	ATGACAA TTAGGGC ATGACAA	1
4715	CHIP2884	STM/STY	STM1803	STY1931	ATGCGAG TTAGTTA ATGCGAG	1
4716	CHIP2804	STM specil	STM1627		ATGAAAT TTAGTTA ATGAAAT	1
4717	CHIP2814	STM/STY	STM1639	STY1431	ATGGGCA TTAGTCA ATGGGCA	1
4718	CHIP2830	STM/STY	STM1667	STY1397	ATGACGC TTAGTAA ATGACGC	1
4719	CHIP2846	STM/STY	STM1703	STY1349	ATGATGA TTAACGC ATGATGA	1
4720	CHIP1147	STM/STY	STM0626	STY0675	ATGACAG TTAGCCG ATGACAG	1
4721	CHIP1163	STM/STY	STM0985	STY0986	ATGATTG TTAGCGA ATGATTG	1

4722	CHIP1179	STM/STY	STM0963	STY0961	ATGCTCG TTAGCCG ATGCTCG	1
4723	CHIP4257	STM/STY	STM3098	STY3251	ATGTCAT(TTACTGG ATGTCAT(	1
4724	CHIP4377	STM/STY	STM0458	STY0501	ATGATGA TTAGTCG ATGATGA	1
4725	CHIP2473	STM/STY	STM3598	STY4203	ATGAAAA' TTAATAC(ATGAAAA'	1
4726	CHIP4609	STM/STY	STM3048	STY3204	ATGGCTT TTACTCT' ATGGCTT	1
4727	CHIP2513	STM/STY	STM3684	STY4112	ATGAAAC' TTAAGCC ATGAAAC'	1
4728	CHIP2537	STM/STY	STM3755		ATGGCAG TTACTTTT(ATGGCAG	1
4729	CHIP4659	STM/STY	STM3178	STY3355	ATGAAAT' TTACCAA(ATGAAAT'	1
4730	CHIP4308	STM/STY	STM2684	STY2870	ATGTTGG TTACGCC ATGTTGG	1
4731	CHIP4236	STM/STY	STM3046	STY3202	ATGGTCC TTAGTGT' GTGGTCC	1
4732	CHIP4268	STM specil	STM3122		ATGAAAA' TTATTGG' GTGAAAA	1
4733	CHIP2468	STM/STY	STM3585	STY4225	ATGCGCC TTACGCC ATGCGCC	1
4734	CHIP2484	STM/STY	STM3622	STY4178	ATGAGGC TTATGAT(ATGAGGC	1
4735	CHIP2534	STM/STY	STM3747	STY4046	ATGTCCG TTACGGT ATGTCCG	1
4736	CHIP4303	STM/STY	STM2672	STY2859	ATGAATA' TTAGTTT(ATGAATA'	1
4737	CHIP4319	STM/STY	STM2702	STY4608	ATGCAA' TTAACGC GTGCAA	1
4738	CHIP4255	STM/STY	STM3090	STY3243	ATGGCAA TTATTT(ATGGCAA	1
4739	CHIP4367	STM/STY	STM0444	STY0486	ATGTCAA' TTACAGC ATGTCAA'	1
4740	CHIP2471	STM specil	STM3595		ATGAAAC' TTAGCGC ATGAAAC'	1
4741	CHIP4553	STM/STY	STM2127	STY2340	ATGCAGG TTACGCC ATGCAGG	1
4742	CHIP4569	STM/STY	STM2171	STY2401	ATGACCA TTATTTT(ATGACCA	1
4743	CHIP1901	STM/STY	STM3413	STY4385	ATGTGGT TTAATTA(ATGTGGT	1
4744	CHIP1925	STM/STY	STM0942	STY0938	ATGACGG TTACTCC(ATGACGG	1
4745	CHIP1949	STM/STY	STM4388	STY4744	ATGCAA' TTACTTC' ATGCAA'	1
4746	CHIP1965	STM/STY	STM4479	STY4817	ATGATAA' TTATACC(GTGATAA'	1
4747	CHIP1927	STM/STY	STM0931	STY0927	ATGAAAG TTAATCC' ATGAAAG	1
4748	CHIP1943	STM/STY	STM4367	STY4724	ATGCAGT TTACTCC(GTGCAGT	1
4749	CHIP2151	STM/STY	STM3245	STY3428	ATGAATA(TTATTCA(ATGAATA(	1
4750	CHIP2167	STM/STY	STM3147	STY3318	ATGAGCC TTACAAA(ATGAGCC	1
4751	CHIP1608	STM/STY	STM2834	STY2955	ATGAGCC TTAAGCG ATGAGCC	1
4752	CHIP1624	STM/STY	STM2842	STY2964	ATGGCGA TTACACT' ATGGCGA	1
4753	CHIP4486	STM specil	STM0354		ATGAACA' TTACAGA(ATGAACA'	1
4754	CHIP1626	STM/STY	STM2848	STY2970	ATGTTTA(TTAGCTG ATGTTTA(	1
4755	CHIP1650	STM/STY	STM2224	STY2461	ATGTTTA(TTACGCG ATGTTTA(	1
4756	CHIP1666	STM/STY	STM2110	STY2322	ATGCAGG TTAGGGA ATGCAGG	1
4757	CHIP1682	STM/STY	STM2199	STY2434	ATGTTTA(TTAGAAA(ATGTTTA(	1
4758	CHIP1698	STM/STY	STM1772	STY1897	ATGAAAC' TTAGTTC' ATGAAAC'	1
4759	CHIP2252	STM/STY	STM3094	STY3247	ATGCCCT TTATCCT(ATGCCCT	1
4760	CHIP3328	STM/STY	STM0718	STY0758	ATGCAGA TTAGCAT(ATGCAGA	1
4761	CHIP3376	STM/STY	STM0798	STY0831	ATGAGTA TTAGGAC ATGAGTA	1
4762	CHIP3416	STM specil	STM0857		ATGAAAA' TTAGAAT(ATGAAAA'	1
4763	CHIP2197	STM/STY	STM3324	STY3503	ATGACCG TTAGTCT' ATGACCG	1
4764	CHIP0330	STM/STY	STM3761	STY4025	ATGTCTA(TTATGCG ATGTCTA(	1
4765	CHIP3403	STM/STY	STM0838	STY0879	ATGTTAG' TTACTCG(GTGTTAG	1
4766	CHIP2192	STM/STY	STM3348	STY3528	ATGAAAA' TTAGCGC ATGAAAA'	1
4767	CHIP2208	STM/STY	STM3260	STY3443	ATGTTTA(TTAAGAG ATGTTTA(	1
4768	CHIP2232	STM/STY	STM3193	STY3371	ATGTCAT(TTATTTT(ATGTCAT(	1
4769	CHIP0373	STM/STY	STM2266	STY2492	ATGAAAA' TTAATTC(ATGAAAA'	1
4770	CHIP3340	STM/STY	STM0744	STY0790	ATGAATA' TTACTGC ATGAATA'	1
4771	CHIP2203	STM/STY	STM3300	STY3479	ATGCGAT TTAGTTA' ATGCGAT	1
4772	CHIP2219	STM/STY	STM3229	STY3409	ATGTCGA TTAACGA(ATGTCGA	1
4773	CHIP0352	STM/STY	STM3649	STY4153	ATGTCCG TTACAGG ATGTCCG	1

4774	CHIP2259	STM/STY	STM3071	STY3229	ATGACTG TTAACGG ATGACTG	1
4775	CHIP3335	STM/STY	STM0731	STY0774	ATGTCAC TTATGGG GTGTCAC	1
4776	CHIP3367	STM/STY	STM0789	STY0822	ATGTATT(TTAGGAG ATGTATT	1
4777	CHIP0485	STM/STY	STM0741	STY0787	ATGATCG TTAGTAC,ATGATCG	1
4778	CHIP0495	STM/STY	STM3728	STY4066	ATGTCCC TTAGTAC' ATGTCCC	1
4779	CHIP0535	STM/STY	STM2872	STY2993	ATGTCGA TTATGAG ATGTCGA	1
4780	CHIP0560	STM/STY	STM1413	STY1707	ATGGATT TTAAGAA(ATGGATT	1
4781	CHIP1691	STM/STY	STM1823	STY1953	ATGTTTG(TTATTTCG' ATGTTTG	1
4782	CHIP4435	STM/STY	STM0565	STY0613	ATGTTAA TTATTTATATGTTAA	1
4783	CHIP0966	STM/STY	STM4158		ATGGGTT TTACCCC ATGGGTT	1
4784	CHIP0984	STM/STY	STM1389	STY1731	ATGAATA TTAGGTG ATGAATA	1
4785	CHIP2124	STM/STY	STM3507	STY4289	ATGGCTT TTAACGC ATGGCTT	1
4786	CHIP0089	STM/STY	STM4148	STY3737	ATGTCTG TTACGCT ATGTCTG	1
4787	CHIP0082	STM/STY	STM3897	STY3708	ATGGAGA TTATTGT GTGGAGA	1
4788	CHIP0008	STM/STY	STM3980	STY3579	ATGAAAT TTAGTTT ATGAAAT	1
4789	CHIP1209	STM/STY			ATGAAAC TTATCCA(ATGAAAC	0
4790	CHIP1193	STM/STY	STM1590	STY1475	ATGATGA TTAGCGG ATGACGA	1
4791	CHIP0903	STM/STY	STM0102	STY0119	ATGGTAT TTACGTT GTATGGT	1
4792	CHIP3968	STM/STY	STM1465	STY1657	ATGGTGC TTATGCC ATGGTGC	1
4793	CHIP4690	STM/STY	STM1248	STY1876	ATGTTCC TTAAGTGG ATGTTCC	1
4794	CHIP4740	STM/STY	STM2880	STY3003	ATGAAAA TTATAAG ATGAAAA	1
4795	CHIP4091	STM/STY	STM2796	STY2916	ATGGGTT TTAATGA(ATGGGTT	1
4796	CHIP4331	STM/STY	STM0114	STY0133	ATGTCAC TTAATGT ATGTCAC	1
4797	CHIP4318	STM/STY	STM2698	STY4604	ATGGCGC TTAAGTCA GTGGCGC	1
4798	CHIP4497	STM/STY	STM0707		ATGAGTG TTAGAAC GTGAGTG	1
4799	CHIP2743	STM/STY	STM1529		ATGCCTT TTAATG' ATGCCTT	0
4800	CHIP4515	STM/STY	STM3797	STY3985	ATGAACC TTACGGC ATGAACC	1
4801	CHIP3226	STM/STY	STM3288	STY3469	ATGATTA(TTAAAAG' ATGATTA	1
4802	CHIP3230	STM/STY	STM3294	STY3472	ATGAGTA TTAACGC ATGAGTA	1
4803	CHIP3515	STM/STY	STM1022	STY1036	ATGAATC TTATCGA ATGAATC	1
4804	CHIP3516	STM specil	STM1023		ATGCCTG TTAAGC ATGCCTG	1
4805	CHIP3479	STM specil	STM0947		ATGCAGC TTAGTCC ATGCAGC	1
4806	CHIP3339	STM/STY	STM0743	STY0789	ATGAAGT TTACAAG ATGAAGT	1
4807	CHIP1086	STM specil	PSLT072		ATGTATA TTATCGG ATGTATA	1
4808	CHIP1118	STM specil	PSLT110		ATGACGA TTACATC ATGACGA	1
4809	CHIP1087	STM specil	PSLT073		ATGGCTA TTATTCT ATGGCTA	1
4810	CHIP0425	STM/STY	PSLT011	STY4845	ATGACGA TTAGTCT GTGACGA	1
4811	CHIP0427	STM specil	PSLT009		ATGAAAA TTAGAAC ATGAAAA	1
4812	CHIP0167	STM specil	PSLT075		ATGTGTC TTAAGTAA ATGTGTC	1
4813	CHIP4755	STM/STY	STM1861		ATGAAAA AGGATGA ATGAAAA	1
4814	CHIP4759	STM/STY			GACAAAT CGCCAGC GACAAAT	0
4815	CHIP4763	STM/STY	STM1995		ATATGCT CTGGTAG ATATGCT	1
4816	CHIP4767	STM/STY			GGGCAGC AATGATC GGGCAGC	0
4817	CHIP4771	STM/STY			AAACGCT TTCAATA AAACGCT	0
4818	CHIP4775	STM/STY	STM2211		GAAAGCC AATGCGG GAAAGCC	1
4819	CHIP4851	STM/STY			TGCTGAC CGCCAGA TGCTGAC	0
4820	CHIP4855	STM/STY			TCATTGT TTAATGA TCATTGT	0
4821	CHIP4859	STM/STY			CGATATG CGGAAAA CGATATG	0
4822	CHIP4863	STM/STY			CGCAGCA GCCGCGT CGCAGCA	0
4823	CHIP4867	STM specil	STM1046		AACGATG TCCAGCC AACGATG	1
4824	CTRL006	none			human plac	0
4825	CHIP5120	STY specific		STY2061	ATGTCGT TTAAGTAA ATGTCGT	0

4826	CHIP5136	STY specific		STY2077	ATGCAGC TTAGAGC ATGCAGC	0
4827	CHIP5152	STY specific		STY2356	ATGGGCC TTAATCA ATGGGCC	0
4828	CHIP5174	STY specific		STY2885	ATGGCAG TTAATCA GTGGCAG	0
4829	CHIP4911	STY specific		STY0115	ATGATGC TTAGCGT ATGATGC	0
4830	CHIP4927	STY specific		STY0312	ATGTTCA TTATTCA ATGTTCA	0
4831	CHIP5220	STY specific		STY3644	ATGCAAC TTATTGC ATGCAAC	0
4832	CHIP5235	STY specific		STY3672	ATGCCAT TTATTCT ATGCCAT	0
4833	CHIP5250	STY specific		STY3688	ATGACGC TTAATCA ATGACGC	0
4834	CHIP5184	STY specific		STY3066	ATGTATC TTAGCGT ATGTATC	0
4835	CHIP4921	STY specific		STY0296	ATGACAT TAAAAA ATGACAT	0
4836	CHIP4937	STY specific		STY0345	ATGAATT TTAATTT ATGAATT	0
4837	CHIP5237	STY specific		STY3674	ATGGGAA TTATGGG ATGGGAA	0
4838	CHIP5252	STY specific		STY3690	ATGAATA TTATGGA ATGAATA	0
4839	CHIP5267	STY specific		STY3922	ATGCGCT TTAGTTC ATGCGCT	0
4840	CHIP5010	STY specific		STY1367	ATGAAAC TTATGCT GTGAAAC	0
4841	CHIP5026	STY specific		STY1601	ATGGCAA TTAATGC ATGGCAA	0
4842	CHIP5042	STY specific		STY1618	ATGGCTT TTAGCGA ATGGCTT	0
4843	CHIP5172	STY specific		STY2883	ATGATGA TTACGAC ATGATGA	0
4844	CHIP5188	STY specific		STY3070	ATGGATT TTATTCC ATGGATT	0
4845	CHIP5371	STM/STY		STY4627	ATGAACA TAAAAA ATGAACA	0
4846	CHIP5383	STY specific		STY4651	ATGAGCT TTAATA ATGAGCT	0
4847	CHIP5401	STY specific		STY4676	ATGGGGA TTAATCA ATGGGGA	0
4848	CHIP5417	STY specific		STY4829	ATGATGA TTATGCG ATGATGA	0
4849	CHIP5324	STY specific		STY4560	ATGGTCA TTAATGC ATGGTCA	0
4850	CHIP5338	STY specific		STY4577	ATGAGAT TTATTGG ATGAGAT	0
4851	CHIP5436	STM/STY		STY4883	ATGAACA TTATTCC ATGAACA	0
4852	CHIP5375	STM/STY		STY4635	ATGGCAG TTAATCA GTGGCAG	0
4853	CHIP5387	STY specific		STY4656	ATGATTA TTAACGA ATGATTA	0
4854	CHIP5398	STY specific		STY4673	ATGACGC TTAGTAA ATGACGC	0
4855	buffer	none			buffer	0
4856	empty	none			empty	0
4857	empty	none			empty	0
4858	empty	none			empty	0
4859	empty	none			empty	0
4860	empty	none			empty	0
4861	CHIP0779	STM/STY	STM4291	STY4490	ATGCGTT TTATGCC ATGCGTT	1
4862	CHIP2586	STM specil	STM3844		ATGGCAC TTATACG ATGGCAC	1
4863	CHIP2602	STM/STY	STM3874	STY3904	ATGTTTT TTAAGCG ATGTTTT	1
4864	CHIP0835	STM/STY	STM3320	STY3499	ATGAAGC TTAACC ATGAAGC	1
4865	CHIP0851	STM/STY	STM3181	STY3359	ATGACGC TTACACG ATGACGC	1
4866	CHIP3234	STM/STY	STM3304	STY3483	ATGTACG TTAAGCG ATGTACG	1
4867	CHIP2636	STM/STY	STM0063	STY0072	ATGAACG TTAATCA ATGAACG	1
4868	CHIP2668	STM/STY	STM0134	STY0154	ATGATCA TTATGCC ATGATCA	1
4869	CHIP2684	STM/STY	STM0167	STY0189	ATGAAGA TTAATTA ATGAAGA	1
4870	CHIP2700	STM/STY	STM0185	STY0210	ATGACAG TTAGCGA ATGACAG	1
4871	CHIP2716	STM/STY	STM0222	STY0245	ATGCTGG TTAGAGC ATGCTGG	1
4872	CHIP2732	STM/STY	STM1506		ATGAAAA TTAATTT ATGAAAA	1
4873	CHIP3262	STM/STY	STM3369	STY3549	ATGAGGC TTATTGC GTGAGGC	1
4874	CHIP3278	STM/STY	STM0631	STY0680	ATGTTCC TTATAAT ATGTTCC	1
4875	CHIP3294	STM specil	STM0655		ATGGATA TTATAGA ATGGATA	1
4876	CHIP3310	STM/STY	STM0687	STY0725	ATGCGTA TTAGAAA ATGCGTA	1
4877	CHIP3326	STM/STY	STM0714	STY0754	ATGAACA TTAGGCA ATGAACA	1

4878	CHIP0792	STM/STY	STM2398	STY2635	ATGTTTCG TTATTTTC/ATGTTTCG	1
4879	CHIP4001	STM/STY	STM2101	STY2311	ATGAAAT TTATTGC/ATGAAAT	1
4880	CHIP3729	STM specil	STM4575		ATGAAAA TTACAGA ATGAAAA	1
4881	CHIP3753	STM/STY	STM0282	STY0305	ATGACAG TTAAGTGT/ATGACAG	1
4882	CHIP4065	STM specil	STM2758		ATGAAAA TTAGTGT/ATGAAAA	1
4883	CHIP4081	STM/STY	STM2780	STY2897	ATGGCTA TTAATA/ATGGCTA	1
4884	CHIP1121	STM specil	STM1044		ATGAAAT TTATTTTC/ATGAAAT	1
4885	CHIP3747	STM/STY	STM0272	STY0294	ATGGAAA TTAGCAA/ATGGAAA	1
4886	CHIP4059	STM specil	STM2752		ATGAACA TTAGAAT/ATGAACA	1
4887	CHIP3787	STM/STY	STM0335	STY0368	ATGAAAT TTAGCAT/ATGAAAT	1
4888	CHIP3811	STM/STY	STM1088	STY1117	ATGCCAA TTAATA/ATGCCAA	1
4889	CHIP2387	STM/STY	STM3412	STY4386	ATGTATC TTAACAT/ATGTATC	1
4890	CHIP2403	STM/STY	STM3465	STY4332	ATGCAAG TTACGCC/ATGCAAG	1
4891	CHIP3805	STM/STY	STM1080	STY1103	ATGACTG TTACATG/ATGACTG	1
4892	CHIP2381	STM/STY	STM1502	STY1561	ATGACAA TTAAGTGT/ATGACAA	1
4893	CHIP2397	STM/STY	STM3455	STY4343	ATGAAAG TTAATGG/ATGAAAG	1
4894	CHIP2413	STM/STY	STM3492	STY4304	ATGGCTT TTAGCGT/ATGGCTT	1
4895	CHIP3877	STM/STY	STM1238	STY1278	ATGGAAA TTACATA/ATGGAAA	1
4896	CHIP3893	STM/STY	STM1279	STY1839	ATGATTG TTAATTG/ATGATTG	1
4897	CHIP2399	STM/STY	STM3457	STY4341	ATGGAAG TTAATGG/ATGGAAG	1
4898	CHIP3863	STM/STY	STM1209	STY1249	ATGGGCC TTAATGA/ATGGGCC	1
4899	CHIP3879	STM/STY	STM1251	STY1871	ATGGCAC TTATGAT/ATGGCAC	1
4900	CHIP2455	STM specil	STM3559		ATGTTTA TTATTTA/ATGTTTA	1
4901	CHIP4104	STM/STY	STM4045	STY3828	ATGCAAA TTAGTAC/ATGCAAA	1
4902	CHIP3552	STM specil	STM4210		ATGTATG TTACAGA/ATGTATG	1
4903	CHIP4114	STM/STY	STM4076	STY3794	ATGATGA TTATGCC/ATGATGA	1
4904	CHIP4130	STM specil	STM4107		ATGAAAT TTAATGC/ATGAAAT	1
4905	CHIP4154	STM/STY	STM2860	STY2982	ATGCCTG TTAATTC/ATGCCTG	1
4906	CHIP4170	STM/STY	STM2918	STY3043	ATGACAA TTAACAT/ATGACAA	1
4907	CHIP3042	STM/STY	STM2377	STY2608	ATGCCAA TTATTCC/ATGCCAA	1
4908	CHIP3058	STM/STY	STM2410	STY2651	ATGCCGC TTATTTG/ATGCCGC	1
4909	CHIP3444	STM specil	STM0900		ATGCTGC TTACGCT/ATGCTGC	1
4910	CHIP3084	STM/STY	STM2485	STY2723	ATGTCTG TTATCCG/ATGTCTG	1
4911	CHIP3484	STM/STY	STM0957	STY0955	ATGAATA TTAATA/ATGAATA	1
4912	CHIP3132	STM specil	STM2588		ATGCCAG TTATGCC/ATGCCAG	0
4913	CHIP4117	STM/STY	STM4082	STY3788	ATGAAGC TTAATTC/ATGAAGC	1
4914	CHIP3565	STM/STY	STM4225	STY4421	ATGAAAA TTAACGG/ATGAAAA	1
4915	CHIP4167	STM/STY	STM2913	STY3038	ATGACAA TTAATCC/ATGACAA	1
4916	CHIP4183	STM specil	STM2938		ATGACGT TTAACCA/ATGACGT	1
4917	CHIP3431	STM/STY	STM0881	STY0914	ATGCAAG TTATTGC/ATGCAAG	0
4918	CHIP3447	STM specil	STM0903		ATGCACA TTAATAAC/ATGCACA	1
4919	CHIP3463	STM specil	STM0920		ATGAAGC TTAGAAA/ATGAAGC	1
4920	CHIP3103	STM/STY	STM2525	STY2770	ATGTCTG TTAATA/ATGTCTG	1
4921	CHIP2357	STM/STY	STM1364	STY1759	ATGGTAA TTATGAC/ATGGTAA	1
4922	CHIP2946	STM/STY	STM1937	STY2145	ATGAAAA TTAACCT/ATGAAAA	1
4923	CHIP2962	STM/STY	STM1994	STY2202	ATGGGCC TTAATTC/ATGGGCC	1
4924	CHIP3658	STM specil	STM4432		ATGGCGC TTAGTAC/ATGGCGC	1
4925	CHIP3682	STM specil	STM4491		ATGCAAA TTAGTTT/ATGCAAA	1
4926	CHIP3698	STM/STY	STM4516	STY4873	ATGAATA TTAGATA/ATGAATA	1
4927	CHIP3692	STM/STY	STM4501	STY4857	ATGAATT TTAGCGA/ATGAATT	1
4928	CHIP3036	STM/STY	STM2366	STY2597	ATGAGCT TTAGGCC/ATGAGCT	1
4929	CHIP2288	STM/STY	STM1228	STY1268	ATGTTAC TTATCCA/ATGTTAC	1

4930	CHIP2304	STM/STY	STM1336	STY1775	ATGGCTC TTATGCC.ATGGCTC	1
4931	CHIP0245	STM/STY	STM2433	STY2670	ATGGGTT TTAATTC ATGGGTT	1
4932	CHIP2344	STM/STY	STM1278	STY1840	ATGACGA TTATGAC(ATGACGA	1
4933	CHIP2322	STM/STY	STM1077	STY1099	ATGAAAA TTAAGAG ATGAAAA	1
4934	CHIP0263	STM/STY	STM2866	STY2987	ATGAGAA TTAATTC/ATGAGAA	1
4935	CHIP0279	STM/STY	STM2269	STY2494	ATGAGTC TTACAGC.ATGAGTC	1
4936	CHIP2951	STM/STY	STM1946	STY2154	ATGAGTG TTAATGT GTGAGTC	1
4937	CHIP2967	STM specil	STM2008		ATGAAAT TTAAGGC ATGAAAT	1
4938	CHIP2983	STM/STY	STM2264	STY2490	ATGCTGG TTATTCTTATGCTGG	1
4939	CHIP3913	STM/STY	STM1316	STY1797	ATGAGCC TTAGTGG ATGAGCC	1
4940	CHIP3937	STM specil	STM1359		ATGGATG TTAGGCT ATGGATG	1
4941	CHIP3961	STM/STY	STM1450		ATGAAGA TTACAGC ATGAAGA	1
4942	CHIP3977	STM/STY	STM1481	STY1587	ATGGCAA TTATCTTATGGCAA	1
4943	CHIP0570	STM/STY	STM4232	STY4428	ATGAAAA TTACCC ATGAAAA	1
4944	CHIP1421	STM/STY	STM3825	STY3952	ATGCGCC TTAATTTATGCGCC	1
4945	CHIP1327	STM/STY	STM3804	STY3975	ATGCCGC TTATATA/ATGCCGC	1
4946	CHIP1351	STM/STY	STM0216	STY0239	ATGGCAA TTAATCG ATGGCAA	1
4947	CHIP1463	STM/STY	STM0372	STY0404	ATGACAG TTAACGC.ATGACAG	1
4948	CHIP1391	STM/STY	STM0132	STY0152	ATGATCA. TTAATTC ATGATCA.	1
4949	CHIP1503	STM/STY	STM2327	STY2557	ATGGATT. TTAATTC ATGGATT.	1
4950	CHIP0501	STM/STY	STM1721	STY1329	ATGCGAG TTAATGT(ATGCGAG	1
4951	CHIP0503	STM/STY	STM3837	STY3941	ATGAAAT TTACAGC ATGAAAT	1
4952	CHIP3950	STM/STY	STM1392	STY1728	ATGAATT TTAAGTA/ATGAATT	1
4953	CHIP3974	STM/STY	STM1473		ATGAAAA TTAGAAC ATGAAAA	1
4954	CHIP0567	STM/STY	STM0545	STY0592	ATGCTGA TTAACCG ATGCTGA	1
4955	CHIP1426	STM/STY	STM3849	STY3934	ATGGCGA TTATGAA(ATGGCGA	1
4956	CHIP1442	STM/STY	STM0356	STY0387	ATGTACA TTACGTG ATGTACA	1
4957	CHIP3168	STM/STY	STM2644	STY2837	ATGGATC TTAACCC ATGGATC	1
4958	CHIP3192	STM/STY	STM3215	STY3393	ATGATGC TTAATCC/ATGATGC	1
4959	CHIP2068	STM/STY	STM3524	STY4279	ATGTTGA TTAATGT(ATGTTGA	1
4960	CHIP0962	STM/STY	STM4155		ATGCTGG TTATTCA1ATGCTGG	1
4961	CHIP0978	STM specil	STM1055		ATGTTAA(TTATAAA/ATGTTAA	1
4962	CHIP0994	STM specil	STM2631		ATGAAAA TTAATGG.ATGAAAA	0
4963	CHIP1575	STM/STY	STM0593	STY0637	ATGAATC TTAGCCA ATGAATC	1
4964	CHIP1991	STM/STY	STM4381	STY4737	ATGACTG TTAACCG ATGACTG	1
4965	CHIP2007	STM/STY	STM4477	STY4816	ATGGAGT TTAATCT ATGGAGT	1
4966	CHIP3171	STM/STY	STM2650	STY2843	ATGACCA TTATGCT(ATGACCA	1
4967	CHIP3187	STM/STY	STM3202	STY3381	ATGGCTC TTATCGT ATGGCTC	1
4968	CHIP3203	STM/STY	STM3243	STY3426	ATGAGTA TTAGAAC.ATGAGTA	1
4969	CHIP3205	STM/STY	STM3249	STY3431	ATGAATA TTATTTTATGAATA	1
4970	CHIP1514	STM/STY	STM2289	STY2519	ATGAACG TTAATAAC ATGAACG	1
4971	CHIP1538	STM/STY	STM2496	STY2737	ATGTCAT TTACAGT ATGTCAT	1
4972	CHIP1562	STM/STY	STM0486	STY0530	ATGCAAA TTAGAAA.ATGCAAA	1
4973	CHIP1578	STM/STY	STM0472	STY0515	ATGAGTG TTACAAT ATGAGTG	1
4974	CHIP1594	STM specil	STM0573		ATGGAAA TTAATTTATGGAAA	1
4975	CHIP1796	STM/STY	STM4007	STY3874	ATGTCCG TTAACCG ATGTCCG	1
4976	CHIP1828	STM/STY	STM0844	STY0883	ATGATCT TTATCCT(ATGATCT	1
4977	CHIP1868	STM/STY	STM0738	STY0781	ATGAAC TTAATTT(ATGAAC	1
4978	CHIP0674	STM/STY	STM4006	STY3875	ATGGCAA TTAATTT(ATGGCAA	1
4979	CHIP0690	STM/STY	STM2354	STY2584	ATGAAAA TTAACCG ATGAAAA	1
4980	CHIP0706	STM/STY	STM0118	STY0138	ATGAAAC TTAGCTA GTGAAAC	1
4981	CHIP1839	STM/STY	STM0694	STY0732	ATGGCAA TTAGCG ATGGCAA	1

4982	CHIP1871	STM/STY	STM0735	STY0778	ATGATGA TTATGCG ATGATGA	1
4983	CHIP0677	STM/STY	STM0228	STY0251	ATGATTG TTAACGA GTGATTG	1
4984	CHIP0701	STM/STY	STM2674	STY2861	ATGTTTA TTATGCC GTGTTTA	1
4985	CHIP0717	STM/STY	STM4361	STY4718	ATGGCTA TTATTCA(ATGGCTA	1
4986	CHIP0733	STM/STY	STM1777	STY1902	ATGACCC TTA CTCC ATGACCC	1
4987	CHIP0600	STM/STY	STM2500	STY2741	ATGAATA TTATTCC ATGAATA	1
4988	CHIP0720	STM/STY	STM0846	STY0885	ATGTTCA TTACAGG ATGTTCA	1
4989	CHIP0744	STM specil	STM1240		ATGAATA TTACGCT ATGAATA	1
4990	CHIP1811	STM/STY	STM4062	STY3809	ATGATTA TTAGTAC ATGATTA	1
4991	CHIP1843	STM/STY	STM0664	STY0709	ATGTCAA TTATTTG(ATGTCAA	1
4992	CHIP1883	STM/STY	STM3399	STY4398	ATGTCTG TTACGGT ATGTCTG	1
4993	CHIP4714	STM/STY	STM1600	STY1464	ATGGCTA TTACCTG ATGGCTA	1
4994	CHIP4730	STM/STY	STM2634	STY1013	ATGCGCC TTAGTTT(ATGCGCC	0
4995	CHIP0187	STM/STY	STM2048	STY2253	ATGAACG TTA CTCC ATGAACG	1
4996	CHIP1230	STM/STY	STM4286	STY4485	ATGTTCC TTAGAGG ATGTTCC	1
4997	CHIP1246	STM/STY	STM1949	STY2157	ATGAGTA TTA CTGG ATGAGTA	1
4998	CHIP0443	STM/STY			ATGGTAG TTAGCGT ATGGTAG	0
4999	CHIP1272	STM/STY	STM3357	STY3537	ATGCAGA TTAGGCA GTGCAGA	1
5000	CHIP1296	STM/STY	STM0010	STY0010	ATGAACG TTACGCC ATGAACG	1
5001	CHIP1312	STM/STY	STM0003	STY0003	ATGGTGA TTATCCC ATGGTGA	1
5002	CHIP4693	STM/STY	STM1331	STY1779a	ATGGATA TTAGATT ATGGATA	1
5003	CHIP4709	STM/STY	STM1872	STY2078	ATGATAA TTA AAA G CTGATAA	1
5004	CHIP3211	STM/STY	STM3264	STY3447	ATGCATT TTATTAG CATT TTC	1
5005	CHIP4727	STM/STY	STM2475	STY2712	ATGAAAA TTA CTTC ATGAAAA	1
5006	CHIP3456	STM specil	STM0913		ATGTGCG TTATTATC GTGGCGC	1
5007	CHIP0392	STM/STY	STM2188	STY2421	ATGAGTG TTAGGCC ATGAGTG	1
5008	CHIP0408	STM/STY	STM0570	STY0619	ATGACCC TTA AAA T ATGACCC	1
5009	CHIP0432	STM/STY	STM0191	STY0218	ATGGCGC TTAGAAA ATGGCGC	1
5010	CHIP0448	STM/STY			ATGGTCA TTATCCC ATGGTCA	0
5011	CHIP0914	STM/STY	STM2325	STY2555	ATGCACG TTATTTA ATGCACG	1
5012	CHIP1765	STM/STY	STM3007	STY3150	ATGAAAA TTA ACGT ATGAAAA	1
5013	CHIP0003	STM/STY	STM3985	STY3575	ATGGACA TTATTCT ATGGACA	1
5014	CHIP0027	STM/STY	STM3960	STY3599	ATGACCT TTACGCG ATGACCT	1
5015	CHIP0051	STM/STY	STM3935	STY3624	ATGCTAA TTA CTGC ATGCTAA	1
5016	CHIP0091	STM/STY	STM4150	STY3735	ATGGCTA TTAGTTC ATGGCTA	1
5017	CHIP0061	STM/STY	STM3921	STY3634	ATGAGTT TTAGCGC ATGAGTT	1
5018	CHIP0085	STM/STY	STM4137	STY3742	ATGACCC TTATGCA ATGACCC	1
5019	CHIP0869	STM/STY	STM1972	STY2180	ATGACCA TTACACC ATGACCA	1
5020	CHIP0885	STM/STY	STM2431	STY2667	ATGTTCC TTA CTGC ATGTTCC	1
5021	CHIP0901	STM/STY	STM0104	STY0121	ATGGCTG TTATTCA(ATGGCTG	1
5022	CHIP1752	STM/STY	STM2952	STY3081	ATGTCCA TTACGCC ATGTCCA	1
5023	CHIP1778	STM/STY	STM4084	STY3786	ATGGCCG TTACCAG ATGGCCG	1
5024	CHIP0696	STM/STY	STM2076	STY2285	ATGATTA TTATACG ATGATTA	1
5025	CHIP0056	STM/STY	STM3926	STY3629	ATGTCGC TTATGCT ATGTCGC	1
5026	CHIP0096	STM/STY	STM4166	STY3719	ATGGATC TTA ATCA ATGGATC	1
5027	CHIP0880	STM/STY	STM0380	STY0412	ATGGCGA TTACATC ATGGCGA	1
5028	CHIP0896	STM/STY	STM1921	STY2130	ATGAGCA TTAGGCG GTGAGCA	1
5029	CHIP2881	STM/STY	STM1796	STY1924	ATGATAC TTA CTGC ATGATAC	1
5030	CHIP2801	STM/STY	STM1624	STY1440	ATGGCGA TTA AAGC ATGGCGA	1
5031	CHIP2825	STM/STY	STM1658	STY1406	ATGAACC TTA CCGA ATGAACC	1
5032	CHIP1126	STM/STY	STM0887	STY0920	ATGAAAA TTA CTGC ATGAAAA	1
5033	CHIP1150	STM/STY	STM0619	STY0668	ATGATGC TTA ATGA ATGATGC	1

5034	CHIP1166	STM/STY	STM0990	STY0992	ATGCTTT TTA	CTCC(ATGCTTT	1
5035	CHIP1176	STM/STY	STM3766	STY4020	ATGAAAA TTA	ATGG(ATGAAAA	1
5036	CHIP4460	STM/STY	STM0602	STY0646	ATGAACC TT	ATATT(ATGAACC	1
5037	CHIP2852	STM/STY	STM1719	STY1331	ATGAGCG TT	ATCCG(ATGAGCG	1
5038	CHIP2772	STM/STY	STM1570	STY1492	ATGACCA TT	ATGCC(ATGACCA	1
5039	CHIP2892	STM/STY	STM1821	STY1951	ATGACGG TT	ACTCG(GTGACGG	1
5040	CHIP2908	STM/STY	STM1849	STY1980	ATGAGTC TTA	ACGT(ATGAGTC	1
5041	CHIP2918	STM specil	STM1870		ATGGAAC TT	ATGAA(GTGGAAC	1
5042	CHIP2934	STM/STY	STM1897	STY2105	ATGAAAA TT	ATTCT(ATGAAAA	1
5043	CHIP4391	STM/STY	STM0482	STY0526	ATGCAAC TT	AGCGC(ATGCAAC	1
5044	CHIP4415	STM/STY	STM0524	STY0572	ATGTTCC TT	ATTTA(ATGTTCC	1
5045	CHIP4431	STM/STY	STM0557	STY0605	ATGAGAA TT	ATTTA(ATGAGAA	1
5046	CHIP1187	STM/STY	STM1575	STY1490	ATGAGTT TT	ACGCA(ATGAGTT	1
5047	CHIP4265	STM specil	STM3118		ATGATGA TTA	AATC(ATGATGA	1
5048	CHIP4577	STM/STY	STM2288	STY2518	ATGCCGC TT	ATGCC(ATGCCGC	0
5049	CHIP4593	STM/STY	STM2774	STY2891	ATGCCCG TT	ATCCT(ATGCCCG	1
5050	CHIP2497	STM/STY	STM3655	STY4144	ATGTCTG TT	ATTGA(ATGTCTG	1
5051	CHIP4633	STM/STY	STM0747		ATGTCAA TT	ACAGT(ATGTCAA	1
5052	CHIP4657	STM specil	STM4111		ATGCCGC TT	ACGTA(CTACGGC	0
5053	CHIP4292	STM/STY	STM3175	STY3352	ATGATGA TTA	ACGA(GTGATGA	1
5054	CHIP4220	STM/STY	STM3013	STY3157	ATGTCAT TT	AGAGC(ATGTCAT	1
5055	CHIP4244	STM/STY	STM3078	STY3238	ATGAGCA TT	ACTCG(ATGAGCA	1
5056	CHIP4364	STM specil	STM0438		ATGGATA TT	ATCGA(GTGGATA	1
5057	CHIP4588	STM/STY	STM2843	STY2965	ATGAACC TT	AGAAA(ATGAACC	1
5058	CHIP2492	STM/STY	STM3643	STY4159	ATGATTC TT	ACGGC(ATGATTC	1
5059	CHIP2542	STM/STY	STM3770	STY4015	ATGGATA TT	ATGCT(ATGGATA	1
5060	CHIP4215	STM/STY	STM2998	STY3136	ATGAATC TT	AGGGC(GTGAATC	1
5061	CHIP4231	STM/STY	STM3030	STY3178	ATGAAAA TT	AATGC(ATGAAAA	1
5062	CHIP4263	STM/STY	STM3115	STY3272	ATGGTAA TT	AGGCA(GTGGTAA	1
5063	CHIP4279	STM/STY	STM3145	STY3316	ATGTCTG TT	ATGCA(ATGTCTG	1
5064	CHIP4591	STM/STY	STM2721	STY4626	ATGACAG TT	AGCAA(ATGACAG	1
5065	CHIP1677	STM/STY	STM2163	STY2393	ATGATTG TT	ACACA(ATGATTG	1
5066	CHIP1693	STM/STY	STM1819	STY1949	ATGGCGC TT	ACTCT(ATGGCGC	1
5067	CHIP1909	STM/STY	STM3428	STY4370	ATGGCGA TT	ACTTG(ATGGCGA	1
5068	CHIP2117	STM/STY	STM3550	STY4261	ATGAAAG TT	ATGCC(ATGAAAG	1
5069	CHIP2141	STM/STY	STM3296	STY3474	ATGGCGA TT	ATTTG(ATGGCGA	1
5070	CHIP2157	STM/STY	STM3208	STY3387	ATGCGTG TT	ACGCC(ATGCGTG	1
5071	CHIP2119	STM/STY	STM3548	STY4263	ATGAACA TT	ATTTT(ATGAACA	1
5072	CHIP2135	STM/STY	STM3310	STY3489	ATGTTTA TT	ACTGT(ATGTTTA	1
5073	CHIP1967	STM/STY	STM4507	STY4862	ATGAAAT TT	AGGCA(ATGAAAT	1
5074	CHIP1983	STM/STY	STM4323	STY4682	ATGGCTC TT	ACGGT(ATGGCTC	1
5075	CHIP4492	STM/STY	STM0374	STY0406	ATGTTAT TT	AATAT(ATGTTAT	1
5076	CHIP1632	STM/STY	STM2143	STY2372	ATGAAAG TT	ATAGT(ATGAAAG	1
5077	CHIP1610	STM/STY	STM2836	STY2957	ATGGTTT TT	ATCCA(ATGGTTT	1
5078	CHIP1634	STM/STY	STM2155	STY2384	ATGCCCT TT	ATTTT(ATGCCCT	1
5079	CHIP4534	STM/STY	STM2221	STY2458	ATGACCA TT	ACCGT(GTGACCA	1
5080	CHIP4550	STM/STY	STM2244	STY2469	ATGCATC TT	ATTTA(TTGCATC	0
5081	CHIP4566	STM/STY	STM2168	STY2398	ATGTTGG TTA	ATCG(ATGTTGG	1
5082	CHIP1898	STM/STY	STM0259	STY0280	ATGACAA TT	ATACC(ATGACAA	1
5083	CHIP0369	STM/STY	STM1407	STY1713	ATGTTTG TT	AATTT(ATGTTTG	1
5084	CHIP3336	STM/STY	STM0733	STY0776	ATGGTAA TT	ACACA(ATGGTAA	1
5085	CHIP3384	STM/STY	STM0810	STY0845	ATGAACC TTA	AGCA(ATGAACC	1

5086	CHIP0290	STM/STY	STM2678	STY2865	ATGCAAC TTAGCTT/ATGCAAC	1
5087	CHIP2205	STM/STY	STM3271	STY3454	ATGTCCA TTAATCG GTGTCCA	0
5088	CHIP2221	STM/STY	STM3227	STY3407	ATGCTTA TTAGCCA ATGCTTA	1
5089	CHIP3411	STM/STY	STM0851	STY0890	ATGCGAT TTACCCC ATGCGAT	1
5090	CHIP0309	STM/STY	STM1385	STY1736	ATGTGGA TTAGACC ATGTGGA	1
5091	CHIP2216	STM/STY	STM3233	STY3413	ATGGGAC TTAGCCA ATGGGAC	1
5092	CHIP2240	STM/STY	STM3155	STY3328	ATGCTTC TTAACTT(ATGCTTC	1
5093	CHIP2264	STM/STY	STM3045	STY3201	ATGCAGC TTAGGCG ATGCAGC	1
5094	CHIP3348	STM/STY	STM0760	STY0801	ATGAATT TTAGCCG ATGAATT	1
5095	CHIP0320	STM/STY	STM1183	STY1222	ATGTCCA TTAGCGA ATGTCCA	1
5096	CHIP0336	STM/STY	STM1915	STY2124	ATGATGC TTAAGAG ATGATGC	1
5097	CHIP2243	STM/STY	STM3129	STY3298	ATGAGCC TTAATAAC ATGAGCC	1
5098	CHIP0376	STM/STY	STM1113	STY1149	ATGGCGA TTATTCA(ATGGCGA	1
5099	CHIP3343	STM/STY	STM0749	STY0795	ATGCAAC TTAGTAA ATGCAAC	1
5100	CHIP3375	STM/STY	STM0796	STY0829	ATGGCGC TTAGTCA(ATGGCGC	1
5101	CHIP1576	STM/STY	STM0599	STY0643	ATGATCT TTATCCC ATGATCT	1
5102	CHIP1530	STM/STY	STM2537	STY2783	ATGGGAC TTAATCT(ATGGGAC	1
5103	CHIP1555	STM/STY	STM2481	STY2719	ATGGCGA TTATTTT(ATGGCGA	1
5104	CHIP1620	STM/STY	STM2826	STY2947	ATGCTGA TTAGTAA(ATGCTGA	1
5105	CHIP3528	STM specil	STM1037		ATGACCC TTACATG(ATGACCC	1
5106	CHIP3560	STM specil	STM4219		ATGCGCA TTACAGC ATGCGCA	1
5107	CHIP2081	STM/STY	STM3741	STY4051	ATGGCAC TTAACGA ATGGCAC	1
5108	CHIP2092	STM/STY	STM3686	STY4110	ATGAAGG TTATTTG(ATGAAGG	1
5109	CHIP3574	STM/STY	STM4252	STY4448	ATGGCGT TTATAGC ATGGCGT	1
5110	CHIP3551	STM specil	STM4209		ATGCGCT TTATCTC ATGCGCT	1
5111	CHIP4025	STM/STY	STM2139	STY2367	ATGCATG TTATGGC GTGCATG	1
5112	CHIP4042	STM specil	STM2733		ATGGCTA TTAATTC(ATGGCTA	1
5113	CHIP2483	STM/STY	STM3621	STY4179	ATGTATA TTATGGC ATGTATA	1
5114	CHIP3748	STM/STY	STM0273	STY0297	ATGGCTA TTATTCC(ATGGCTA	1
5115	CHIP3928	STM specil	STM1350		ATGAGTG TTATACC(ATGAGTG	1
5116	CHIP1592	STM/STY	STM0563	STY0611	ATGATGG TTAATGA ATGATGG	1
5117	CHIP3940	STM specil	STM1362		ATGATGA TTAACAC ATGATGA	1
5118	CHIP1170	STM/STY	STM1563	STY1497	ATGACAA TTAGGCG ATGACAA	1
5119	CHIP2629	STM/STY	STM0044	STY0053	ATGCAGC TTAAGAC TTGCAGC	1
5120	CHIP2574	STM specil	STM3829		ATGACAG TTAGTTT(ATGACAG	1
5121	CHIP2567	STM/STY	STM3820	STY3958	ATGAAAA TTATTGC(ATGAAAA	1
5122	CHIP2656	STM/STY	STM0099		ATGAACG TTAATTA TTGAACG	1
5123	CHIP4506	STM specil	STM1794		ATGTGGT TTATTGT ATGTGGT	1
5124	CHIP3112	STM/STY	STM2542	STY2788	ATGGCTT TTATTTT(ATGGCTT	1
5125	CHIP3213	STM/STY	STM3266	STY3449	ATGCTCG TTAATCA GTGCTCG	1
5126	CHIP3151	STM specil	STM2607		ATGGCAA TTACAGT ATGGCAA	1
5127	CHIP3428	STM/STY	STM0875	STY0908	ATGAAAA TTAGCCG GTGAAAA	1
5128	CHIP3477	STM/STY	STM0943	STY0940	ATGGAAA TTATGCA ATGGAAA	1
5129	CHIP3511	STM/STY	STM1006	STY1012	ATGAGCA TTATGTT(ATGAGCA	1
5130	CHIP3379	STM/STY	STM0805	STY0839	ATGCGCA TTAGCCC ATGCGCA	1
5131	CHIP1094	STM specil	PSLT085		ATGAGCC TTATGCA ATGAGCC	1
5132	CHIP1055	STM specil	PSLT021		ATGCCGA TTAGGGC TTGCCGA	0
5133	CHIP1103	STM specil	PSLT094		ATGCACA TTATTGC(ATGCACA	1
5134	CHIP0170	STM specil	PSLT078		ATGTCGG TTAATTA ATGTCGG	1
5135	CHIP0420	STM specil	PSLT016		ATGATGA TTAATTC ATGATGA	1
5136	CHIP0423	STM specil	PSLT015		ATGATGA TTAATTC ATGATGA	1
5137	CHIP4756	STM specil	PSLT066		ACACCAC TCATCGT ACACCAC	1

5138	CHIP4760	STM/STY		GCGATCC GCGGATA	GCGATCC	0	
5139	CHIP4764	STM/STY		TGCTGGA CCTTTAA	TGCTGGA	0	
5140	CHIP4768	STM/STY		TGAGTGC CAGACCA	TGAGTGC	0	
5141	CHIP4772	STM/STY	STM0252	ATGAAGG TTTTCGCT	ATGAAGG	0	
5142	CHIP4776	STM specific	STM0292	GGACTTG TCCCTTA	GGACTTG	1	
5143	CHIP4852	STM/STY		GCAATGC TTATCTT	GCAATGC	0	
5144	CHIP4856	STM specific		GCGCTGA TTTTCTT	GCGCTGA	0	
5145	CHIP4860	STM specific		ATGACGA CACGCAC	ATGACGA	0	
5146	CHIP4864	STM specific		CAGGTGT CCGACTT	CAGGTGT	0	
5147	CTRL003	none			human plac	0	
5148	CTRL002	none			LT2 gDNA	0	
5149	CHIP5210	STY specific	STY3343	ATGAAAA TTATGGA	ATGAAAA	0	
5150	CHIP5226	STY specific	STY3662	ATGTTTG TTACAGC	ATGTTTG	0	
5151	CHIP5160	STY specific	STY2629	ATGGAAC TTATTTG	TTGGAAC	0	
5152	CHIP5263	STY specific	STY3844	ATGGTCA TTACAAG	ATGGTCA	0	
5153	CHIP5006	STY specific	STY1359	ATGCCGC TTAGCAC	ATGCCGC	0	
5154	CHIP5022	STY specific	STY1597	ATGAACC TTAGTCA	ATGAACC	0	
5155	CHIP5138	STM/STY	STY2167	ATGGCAC TTAACGC	ATGGCAC	0	
5156	CHIP5154	STY specific	STY2358	ATGACAT TTAATCA	ATGACAT	0	
5157	CHIP5257	STY specific		ATGGCTT TTAGAGG	ATGGCTT	0	
5158	CHIP5273	STY specific	STY4039	ATGACGC TTAATTA	GTGACGC	0	
5159	CHIP5016	STY specific	STY1591	ATGAGCC TTAATCT	ATGAGCC	0	
5160	CHIP5032	STY specific	STY1608	ATGAAAA TTACAGT	ATGAAAA	0	
5161	CHIP5156	STY specific	STY2362	ATGTGCA TTAGTAC	GTGTGCA	0	
5162	CHIP5170	STY specific	STY2880	ATGGAGC TTATCTT	ATGGAGC	0	
5163	CHIP5186	STY specific	STY3068	ATGATAA TTAATGG	TTGATAA	0	
5164	CHIP4923	STY specific	STY0301	ATGCAGA TTATTTA	ATGCAGA	0	
5165	CHIP4939	STY specific	STY0347	ATGAGTC TTAGGCT	GTGAGTC	0	
5166	CHIP4955	STY specific	STY1015	ATGAGCA TTATGCT	ATGAGCA	0	
5167	CHIP5261	STY specific	STY3763	ATGATGA TTAAGCT	ATGATGA	0	
5168	CHIP5276	STM/STY	STM3689	STY4107	ATGAAAG TTAGAAC	ATGAAAG	1
5169	CHIP5289	STM/STY		ATGGACC TTACGGT	ATGGACC	0	
5170	CHIP5305	STY specific	STY4530	ATGCGTC TTAGGCT	ATGCGTC	0	
5171	CHIP5326	STY specific	STY4564	ATGTTCT TTAGGGC	TTGTTCT	0	
5172	CHIP5342	STY specific	STY4582	ATGTGTA TTAATTT	ATGTGTA	0	
5173	CHIP5405	STY specific	STY4706	ATGCCGC TTATGCG	ATGCCGC	0	
5174	CHIP5346	STY specific	STY4586	ATGGCAG TTAATCA	ATGGCAG	0	
5175	CHIP5281	STM/STY	STY4162	ATGAGAT TTAATTT	ATGAGAT	0	
5176	CHIP5294	STY specific	STY4415	ATGAATG TTAATTA	GTGAATG	0	
5177	CHIP5310	STY specific	STY4540	ATGGGCT TTAGTCG	ATGGGCT	0	
5178	CHIP5406	STY specific	STY4755	ATGACCA TTAGTGG	ATGACCA	0	
5179	buffer	none			buffer	0	
5180	empty	none			empty	0	
5181	empty	none			empty	0	
5182	empty	none			empty	0	
5183	empty	none			empty	0	
5184	empty	none			empty	0	

& > 90% sequence identity over the entire amplified fragment - with no other gene meeting either criteria
 quence identity over the entire amplified fragment; aSTM and aSTY if the respective gene is better repre
 · 90% sequence identity over the entire amplified fragment; aSTM and aSTY if the respective gene is be
 R > 90% sequence identity over the entire amplified fragment; aSTM and aSTY if the respective gene is

each genome

BEST_OVI (1)	GENE_	BEST_OVI (2)	PRIMA (3)	SECON (4)	SINGLE GENE	Description	GENE_ST,
100	1	99	STM1968		fliE	putative_Fl	2056008
100	1	100	STM3172		sufI	suppressor	3334467
100	1	100	STM2021		cboQ	synthesis_	2102023
100	1	100	STM0086		kefC	CPA2_fam	98778
100	1	100	STM0141		guaC	GMP_redu	164053
100	1	100	STM0128		murG	UDP-N-acc	149957
100	1	100	STM0161		kdgT	2-keto-3-de	190200
100	1	100	STM0183		folK	7,8-dihydro	213398
100	1	100	STM0215		map	methionine	253052
100	1	100	STM0247		abc	putative_Al	287023
100	0	100	STM1532			putative_de	1608028
100	1	100	STM0685		nagE	Sugar_Spe	745258
100	1	100	STM0711		ybgI	putative_cy	778048
100	1	100	STM4456		mgtA	P-type_ATI	4699688
100	1	100	STM2032		cbiD	synthesis_	2109684
100	1	100	STM1998		umuD	error-prone	2081163
100	1	100	STM1004		pncB	nicotinate_	1096831
100	1	100	STM3842		yidC	putative_Pi	4046425
100	1	100	STM3867		atpA	membrane	4076434
100	1	100	STM0050			putative_ni	58946
100	0	100	STM0098			putative_se	115477
100	1	100	STM3334			putative_cy	3503078
100	1	100	STM3370		cafA	RNase_G	3539847
100	1	100	STM1098		hpaC	4-hydroxyp	1185196
100	1	100	STM1130			putative_in	1219460
100	1	100	STM1168		yceH	putative_cy	1253127
100	1	100	STM3510		yhgH	putative_ar	3668696
100	0	60	STM3532			putative_di	3697030
100	1	100	STM3571		ftsY	GTPase_d	3738746
100	0	59	STM1188			putative_in	1273246
100	1	100	STM3515		malT	transcriptio	3676900
100	1	100	STM3534		glgP	glycogen_	3698912
100	1	100	STM3573		yhhL	putative_in	3740930
100	1	100	STM4568		deoA	thymidine_	4822334
100	0	98	STM2723			Fels-2_pro	2865801
100	1	100	STM3556		ugpA	ABC_supe	3725410
100	1	100	STM4547		yjjQ	putative_tr	4806117
100	1	100	STM4588		creB	response_	4844233
100	1	100	STM2738			Fels-2_pro	2876179
100	0	65.686	STM2755			putative_he	2893685

100	1	100	STM2776	iroE	putative_hy	2922612
100	1	100	STM4103		putative_cy	4315517
100	1	100	STM2858	hypE	putative_hy	3002515
100	1	100	STM2927	surE	survival_pr	3068478
100	1	100	STM0882	ybjF	putative_tR	953113
100	0	60.396	STM0904		Fels-1_pro	974374
100	1	100	STM2489	dapA	dihydrodipi	2604043
100	0	62.264	STM0898		Fels-1_pro	967911
100	0	100	aSTM2479		putative_in	1030493
100	0	100	STM0954		putative_re	1068134
100	1	100	STM0983	ycaI	Gifsy-2_pro	1119429
100	0	62.5	STM1032		putative_Al	4287100
100	1	100	STM4077	yneA	phosphoen	4335253
100	1	100	STM4119	ppc	putative_in	4558172
100	1	100	STM4310		ABC_supe	948385
100	1	100	STM0877	potF	Fels-1_pro	979568
100	0	64.356	STM0910		putative_pr	2656256
100	1	100	STM2523	gcpE	putative_pe	2690310
100	1	100	STM2552		paral_putat	1042190
100	1	100	STM0962	ycaJ	putative_tr	2720726
100	1	100	STM2575		DNA_cytos	2074329
100	1	100	STM1992	dcm	response_I	2369994
100	1	100	STM2270	rbsB	putative_in	4767736
100	1	100	STM4514	yjiH	4-hydroxyp	1195422
100	1	100	STM1108	hpaA	putative_N'	2458408
100	1	100	STM2346		sigma_F_(:	2044747
100	1	100	STM1956	fliA	putative_fir	230657
100	0	67	STM0195	stfA	putative_M	1251062
100	1	100	STM1166	yceL	putative_Ni	1450542
100	1	100	STM1368		putative_gl	4618366
100	1	100	STM4376	yjfC	Salmonella	3007282
100	1	100	STM2862	sitB	glutathionir	1525740
100	1	100	STM1451	gst	putative_cy	2071620
100	1	100	STM1988		putative_Al	2145827
100	1	100	STM2068	yeeF		
100	0	100	aSTM2293		NADH_der	2439055
100	1	100	STM2328	nuoA	putative_cy	4683942
100	1	100	STM4440		putative_in	4731314
100	0	57.547	STM4488		putative_di	4760028
100	1	100	STM4506	pdxB	erythronate	2482355
100	1	100	STM2370		putative_Al	1341721
100	1	100	STM1257		pyridine_nu	1555695
100	1	100	STM1479	pntA	aminoacyl-	360973
100	1	100	STM0316	pepD	putative_tr	193404
100	1	100	STM0164		2,3,4,5-tetr	249289
100	1	100	STM0213	dapD	D-alanine-l	152611
100	1	100	STM0130	ddlB	succinylorn	1382194
100	1	100	STM1303	astC	phenylalan	1416677
100	1	100	STM1338	pheT	putative_el	1434509
100	0	73.267	STM1354	ydiQ	bifunctiona	2240261
100	1	100	STM2146	thiD	sensory_hi	1546405
100	1	100	STM1471	rstB		

100	1	100	STM1418	ssaQ	Secretion_	1497708
100	1	100	STM3863		putative_pe	4072743
100	1	100	STM0281		putative_cy	319771
100	1	100	STM0219	frr	ribosome_I	257148
100	1	100	STM1982	rcaA	positive_tra	2067427
100	1	100	STM2402	yfdZ	putative_ar	2516005
100	1	100	STM2317	nuoM	NADH_def	2425818
100	1	100	STM1349	pps	phosphoen	1427770
100	1	100	STM2871	prgK	cell_invasic	3014996
100	1	100	STM2443	cysU	ABC_supe	2554592
100	1	100	STM0503	ybbM	putative_YI	563150
100	1	100	STM4003	yihI	putative_cy	4210467
100	1	100	STM4348	psd	phosphatid	4592578
100	0	65.347	STM2609		Gifsy-1_prc	2757539
100	1	100	STM3184	yqiB	putative_cy	3347315
100	1	100	STM3555	ugpE	ABC_supe	3724568
100	1	100	STM3290	argG	argininosuc	3458857
100	1	100	STM2349	yfcG	putative_gl	2460413
100	1	100	STM0512	sfbC	putative_bi	572988
100	1	100	STM4396	ytfB	putative_ce	4633077
100	1	100	STM4481	idnR	L-idonate_I	4724731
100	1	100	STM2793	gabP	APC_famil	2943010
100	1	100	STM4511	yjiE	putative_tra	4765066
100	1	100	STM4594	sthA	putative_fir	4852095
100	1	99	STM3657		putative_ot	3842899
100	0	100	STM3252	agaR	aga_opero	3421438
100	0	55.556	STM3278		putative_cy	3444196
100	1	100	STM4106	katG	catalase;_h	4319583
100	1	100	STM1824	pabB	p-aminobe	1921169
100	1	100	STM0548	fimF	putative_fir	609692
100	1	100	STM4027	rbcN	tRNA_proc	4237342
100	1	100	STM0630	crcB	high-copy_	693182
100	1	100	STM3407	fmt	10-formylte	3577461
100	1	99	STM1244	pagD	PhoP_regu	1331176
100	1	100	STM4127	yjiC	putative_tra	4345579
100	1	100	STM0690	citB	citrate_utili	752726
100	1	100	STM0732	sdhC	succinate_I	797992
100	1	100	STM0977	serC	3-phospho	1061475
100	1	99	STM0584	entD	enterocheli	640808
100	1	100	STM3475	nirD	nitrite_redu	3626055
100	1	97	STM4163	thiE	thiamin_ph	4379856
100	1	100	STM3564	livK	ABC_supe	3732393
100	0	97	STM2778	aSTM2779	pseudogen	2926094
100	1	100	STM1623		putative_ca	1711702
100	1	100	STM1172	flgM	anti-FliA_(ε	1257046
100	1	100	STM3376	yhdH	putative_o	3547011
100	1	100	STM0033		putative_5'	37103
100	1	99	STM0083		putative_in	95271
100	0	100	STM1250		putative_cy	1335092
100	1	100	STM4021	yihS	putative_is	4231606
100	0	100	STM3352	aSTM0055;_aSTM076	putative_sc	3520046
100	1	100	STM0023	bcfC	fimbrial_us	25803

100	1	100 STM2043	pduG	Propanedic	2120853
100	1	100 STM4300	fumB	fumarase_	4545365
100	0	100	STM1929 otsB	trehalose-6	2024696
100	1	100 STM2502	ppx	exopolyphc	2617008
100	1	100 STM4263	yjcB	putative_in	4501537
100	1	100 STM2671	yfiR	putative_pe	2812985
100	1	100 STM0062	citX2	putative_cy	72400
100	1	100 STM3798	emrD	MFS_famil	3999689
100	1	100 STM3970	ubiE	S-adenosyl	4177291
100	1	100 STM3954	yigG	putative_in	4159570
100	1	100 STM2086	rfbU	LPS_side_	2166238
100	1	100 STM2393	yfdC	putative_tr	2504807
100	1	100 STM1816	minE	cell_divisio	1913634
100	1	100 STM1736	yciA	putative_Ar	1830799
100	1	100 STM2982	gcvA	regulator_c	3134272
100	1	100 STM2914		putative_nu	3057042
100	1	100 STM4097		putative_ot	4306021
100	1	100 STM0578	nfnB	dihydropter	637028
100	1	100 STM4091	hslU	ATPase_α	4299150
100	1	99 STM2053	pduS	Propanedic	2128736
100	1	100 STM3957	pldA	outer_merr	4161623
100	1	100 STM3928	wecF	TDP-Fuc4I	4137118
100	1	100 STM1263		putative_pe	1345840
100	1	100 STM3027	stdC	putative_fir	3187727
100	1	100 STM2963		putative_M	3115076
100	1	100 STM0430	phnR	2-aminoeth	483349
100	1	100 STM3974	tatB	component	4180762
100	1	100 STM0516	allR	putative_re	576564
100	0	72 STM0574		putative_tr	634316
100	1	100 STM0564		putative_o	620328
100	1	100 STM0600	cstA	carbon_sta	661274
100	1	100 STM1614		putative_P	1703205
100	0	100 STM1556		putative_N	1633281
100	1	100 STM1598	ydcR	putative_re	1688394
100	1	100 STM1633		putative_pe	1723891
100	1	100 STM1635		putative_Al	1725331
100	1	100 STM1894	ruvB	Holliday_ju	1989054
100	1	100 STM0492	ybaL	putative_C	550350
100	1	100 STM0627	dcuC	DcuC_fami	690391
100	1	100 STM3769		putative_pt	3969657
100	1	100 STM0603	ybdL	putative_ar	664891
100	1	100 STM0596	entE	2,3-dihydr	657440
100	1	100 STM2739		Fels-2_pro	2876815
100	1	100 STM1750	tdk	thymidine_	1846003
100	1	100 STM1595	srfC	ssrAB_acti	1684073
100	1	100 STM1641	hrpA	helicase,_/	1731334
100	1	100 STM1668		putative_ot	1760349
100	1	100 STM4390		putative_cy	4630237
100	1	100 STM2660	clpB	ATP-deper	2802116
100	1	100 STM3024	yohM	putative_in	3184177
100	1	100 STM0381		putative_in	434715
100	0	61.905 STM3119		putative_m	3278175

100	1	100	STM0459	ybaO	putative_tr	516267
100	1	100	STM3096	yqgE	putative_tr	3258102
100	1	100	STM3692	ltdP	LctP_trans	3885912
100	1	100	STM3807	yidE	paral_putat	4007527
100	1	100	STM2993	recD	exonucleas	3144276
100	1	100	STM3028	stdB	putative_ot	3188511
100	1	100	STM0402		putative_th	458073
100	1	100	STM3611	yhjH	putative_Di	3786584
100	1	100	STM3651		putative_ac	3837736
100	1	100	STM3682	selB	selenocyst	3870846
100	1	100	STM3729	radC	putative_Di	3922680
100	1	100	STM3771		putative_pt	3971409
100	1	100	STM0704	kdpC	P-type_ATI	769694
100	1	100	STM4564	yjjV	putative_hy	4817980
100	1	100	STM2813	emrR	transcriptio	2961121
100	1	100	STM2130	baeS	sensory_ki	2223137
100	1	100	STM2216	yejA	putative_Al	2316219
100	1	100	STM2100	wcaL	putative_gl	2181442
100	1	100	STM2165	yehZ	putative_Al	2260075
100	1	100	STM2197		putative_pt	2294265
100	0	62.136	STM2230		putative_pe	2330961
100	1	100	STM2177		putative_flt	2273632
100	1	100	STM0933	ybjT	putative_nt	1007623
100	1	100	STM3642	tag	3-methyl-ac	3829352
100	1	100	STM3547		putative_tr	3716370
100	1	100	STM3669	yiaL	putative_cy	3856649
100	1	100	STM3580		putative_in	3747662
100	1	100	STM3339	nanA	N-acetyln	3508119
100	1	100	STM3238	yhaN	putative_in	3402015
100	1	100	STM3141		molybdenu	3305364
100	1	100	STM2852	hycB	hydrogena	2998373
100	1	100	STM3203	ygiM	putative_Sl	3368544
100	1	100	STM1401	sseD	Secretion_	1486467
100	1	100	STM1115	scsC	Suppressic	1202448
100	0	60.784	STM0765		putative_ca	828571
100	1	100	STM0835		putative_M	902271
100	1	100	STM1387	ttrR	Tetrathiona	1473102
100	1	100	STM0772	gpmA	phosphogly	836363
100	1	100	STM0816	ybhS	putative_Al	880835
100	0	100	STM0861	ylil	putative_de	933950
100	1	100	STM3316	yrbl	putative_pr	3481969
100	1	100	STM1973	fliJ	flagellar_fli	2061301
100	1	100	STM3140	yghU	putative_gl	3304430
100	0	99	STM0809		putative_in	874971
100	0	60.784	STM0856		putative_el	927479
100	0	68.317	STM4421		putative_N.	4663940
100	1	100	STM4441		putative_cy	4684291
100	1	100	STM0436	yajR	putative_M	488355
100	0	62.136	STM4422		putative_cy	4665461
100	1	100	STM0601	ybdD	putative_cy	663443
100	0	100	STM0521	ybbV	putative_cy	582405
100	0	100	STM0556		putative_tr	614199

100	1	100	STM0581		putative_re	639016
100	1	100	STM0582	ybdJ	putative_in	639363
100	1	100	STM1787		hydrogena	1885943
100	0	61.905	STM0334		putative_cy	377573
100	0	57.009	STM2507		putative_in	2621481
100	1	100	STM2279	yfaE	putative_fe	2384928
100	1	100	STM3151	yghW	putative_cy	3313952
100	1	100	STM0885		putative_in	955899
100	1	100	STM0614	ybdQ	putative_Ul	677372
100	1	100	STM3778		putative_he	3979137
100	1	100	STM3708	tdh	threonine_;	3902882
100	1	100	STM3779		putative_pt	3979551
100	1	100	STM3808	ibpB	small_heat	4009378
100	1	100	STM3810	yidQ	putative_ot	4010636
100	0	60.377	STM3517		putative_Dl	3679971
100	0	100	STM1120	ycdF	pseudogen	1206167
100	1	99	STM4070		putative_cy	4280021
100	0	100	STM4124	oxyS	stable_RN/	4342881
100	1	100	STM4520		putative_cy	4775923
100	0	100	STM0467	ffs	signal_recc	524424
100	1	99	STM1464	malY	pseudogen	1538720
100	1	100	STM0823	ybiJ	putative_pe	890462
100	1	100	STM0649		putative_hy	711944
100	1	100	STM1934		putative_ot	2028816
100	1	100	STM2350	yfcH	putative_st	2461186
100	0	61	PSLT045	rlgA	putative_re	P36761
100	0	62.264	PSLT049	aPSLT050	putative_Dl	P40871
100	0	60.377	PSLT076	traY	conjugative	P62274
100	0	63.107	PSLT030		putative_cy	P20910
100	0	66	PSLT047		putative_cy	P38923
100	0	63.303	PSLT060		putative_cy	P50166
100	0	67		PSLT020	hypothetic	P15561
63.725	0	65.094		tral		R14810
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yidR	putative_cy	4010973
yidA	putative_hy	4034205
pstB	ABC_supe	4060740
uhpA	response_I	3990554
yhbE	pseudogen	3471407
nanE	putative_M	3505777
yhbN	putative_Al	3483076
	putative_ca	3523796
envR	transcriptio	3560028
	putative_pe	713524
nagA	N-acetylglu	742917
kdpB	P-type_ATI	770287
ydeD	putative_pe	1595829
lpfC	long_polar_	3824115
rnpA	RNase_P,_	4045842
	putative_sh	4066214
yaal	putative_pe	10841
pagC	PhoP_regu	1332251
rpoE	sigma_E_(	2779428
rbsK	ribokinase_	4095611
caiF	transcriptio	80548
ftsI	division_sp	141726
yach	putative_ou	183846
yhdJ	putative_m	3556644
	ABC-type_	1568523
yheL	putative_ou	3602835
holB	DNA_polyn	1284262
ycfD	putative_cy	1316024
yeaQ	putative_in	1353139

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100	1	100	STM3488	hofQ	putative_tr	3643213
100	1	100	STM1235	ymfB	putative_M	1322749
100	1	99	STM1276		putative_pe	1354140
100	1	100	STM2105	manC	mannose-1	2188501
100	1	100	STM2134		putative_in	2226730
100	0	64.151	STM2745		putative_in	2883501
100	1	100	STM1290	gapA	glyceralde	1368693
100	1	100	STM2123	yegE	putative_P	2208530
100	1	100	STM0008	mog	putative_m	8729
100	1	100	STM0287		putative_pe	328515
100	1	100	STM0314		pseudogen	359074
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100	0	66	STM4114	pfID	putative_py	4328814
100	0	100	STM4281	nrfE	formate-de	4519832
100	0	69.307	STM2939	ygcH	putative_cy	3079454
100	1	100	STM2404		putative_cf	2519133
100	1	100	STM2448	yfeZ	putative_in	2559259
100	0	66	STM0929		putative_in	1003900
100	0	70	STM0906		Fels-1_pro	976812
100	0	63.551	aSTM0923	aSTM0922		
100	1	100	STM2530		putative_ar	2662913
100	1	100	STM2563	yfhG	putative_tr	2705408
100	1	100	STM4030		putative_cy	4239649
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100	1	100	STM2854	hypA	guanine-nu	2999798
100	1	100	STM2935	cysD	ATP-sulfur	3074391
100	0	81	STM0893		Fels-1_pro	962612
100	1	100	STM2473	talA	transaldola	2582530
100	1	100	STM0958	trxB	thioredoxin	1035228
100	1	100	STM0988	kdsB	CTP:CMF-	1074664
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100	1	100	STM4406	ytfK	putative_cy	4643319
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100	1	100	STM2343		putative_cy	2456334
100	1	100	STM1923	motA	proton_cor	2020124
100	1	100	STM2364	dedD	paral_putat	2476690
100	1	100	STM1219	ycfW	ABC_trans	1304572
100	1	100	STM1426	ribE	riboflavin_s	1503552
100	0	100	STM1237	ymfC	putative_rit	1323548
100	1	100	STM0025	bcfE	fimbrial_su	29433
100	1	100	STM1986	yedP	putative_hy	2068949
100	1	100	STM1325	ydiZ	putative_cy	1404703
100	1	100	STM4368	vacB	putativea_ε	4611064
100	1	100	STM4401	ytfG	paral_putat	4638180
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100	1	100	STM4502		putative_cy	4756323
100	1	100	STM2281		putative_tr	2386536
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100	1	100	STM2342		putative_in	2454922

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100	1	100	STM2701			Fels-2_pro	2850109
100	1	100	STM2467		eutT	putative_cc	2576556
100	1	100	STM2654		kgtP	MFS_famil	2794375
100	1	100	STM0361			cytochrome	410166
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100	1	100	STM1979		fliP	flagellar_bi	2065326
100	1	100	STM2874		prgH	cell_invasic	3016342
100	1	100	STM1913		flhA	flagellar_bi	2008212
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100	1	100	STM3701		secB	molecular_	3896036
100	1	100	STM3509		bioH	putative_hy	3667888
100	0	64.706	STM4157			putative_cy	4375350
100	1	100	STM1774		sirC	Regulation	1872112
100	1	100	STM0513		ybbB	putative_A	573686
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100	1	100	STM3206		folB	dihydroneo	3371486
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100	1	100	STM3738		yigC	putative_in	3930542
100	1	100	STM2548		asrA	anaerobic_	2686443
100	1	100	STM1203		ptsG	Sugar_Spe	1286369
100	1	100	STM4001		yihA	putative_G	4209252
100	1	100	STM0831		dps	stress_resp	897487
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100	1	100	STM0385		yaiC	putative_di	438129

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100	0	98	STM2132		pseudogen	2225528
100	1	100	STM0669	phoL	putative_pt	733236
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100	1	100	STM4167	hemE	uroporphyr	4384145
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100	1	100	STM2063	phsC	Hydrogen_	2137321
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100	1	100	STM3723	rfaQ	lipopolysac	3917859
100	1	100	STM3987	hemG	protoporph	4195136
100	1	100	STM2583	lepA	GTP-bindir	2726772
100	1	100	STM3946	yifL	putative_ot	4152022
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100	1	100	STM1977	fliN	flagellar_bi	2064536
100	1	100	STM1802	dadX	alanine_rac	1901605
100	1	100	STM2384	aroC	chorismate	2494541
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100	1	100	STM1647	ldhA	fermentativ	1740029
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100	1	100	STM1674		putative_ba	1767332
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100	1	100	STM0580		putative_re	638146

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100	1	100 STM1769	yehN	putative_Ai	1868323
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100	1	100 STM1898	ruvC	Holliday_ju	1993228
100	1	100 STM3802	dsdA	D-serine_d	4004453
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100	0	64 STM3084		putative_re	3247098
100	0	100 STM3133		putative_ar	3293145
100	1	100 STM3914	rhIB	putative_hc	4123427
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100	1	100 STM2687	yfjG	putative_O	2825858
100	1	100 STM3053	gcvP	glycine_cle	3212137
100	1	100 STM3106	ansB	periplasmic	3265481
100	1	100 STM4131	murl	glutamate_	4349899
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100	0	90 STM2237		putative_in	2337198
100	1	100 STM2159	yehU	paral_putat	2254460
100	1	100 STM2194	yehG	putative_es	2291442
100	1	100 STM2106	wcal	putative_gl	2189940
100	1	100 STM2164	yehY	putative_Al	2258902
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100	1	100 STM3054	gcvH	glycine_cle	3215173

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100	1	100	STM1397	sseA	Secretion_	1483601
100	1	100	STM0819	ybiH	putative_tr	884682
100	1	100	STM0866	mdfA	multidrug_t	938495
100	1	100	STM0409		hypothetica	465308
100	0	100	STM2682		putative_cy	2822174
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100	0	80.392	STM2735		Fels-2_pro	2875037
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100	1	100	STM3392	yhdV	putative_ou	3565622
100	1	98	STM0078	fixX	putative_fe	91744
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100	0	62.385	PSLT026		putative_in	P32929
100	0	63	PSLT042		putative_ba	P07569
100	0	96	PSLT012	orf7	putative_ou	P03730
100	1	98	PSLT007 aPSLT010		plasmid-en	P07904
100	0	93	PSLT013	pefl	putative_cy	P86973
100	0	74	aPSLT105 PSLT107		antisense_	P61461
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100	0	61.538	STM0174		stiH	putative_fir 203991
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100	1	100	STM0234		ldcC	lysine_dec 276022
100	1	100	STM1514		ydeJ	putative_C 1592376
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100	1	100	STM2292	yfaX	putative_tr	2399433
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100	1	99	STM0344		putative_re	388783
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100	0	98	STM4478		putative_cy	4722003
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100	0	79	PSLT055	samA	mutagenes	P47352
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100	0	63	PSLT064		putative_in	P53359

100	0	76	PSLT051		putative_cy	P42461
100	0	72	PSLT024	aPSLT023	hypothetic	P17369
100	0	63.366	PSLT062		putative_cy	P52188
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100	1	100	STM2424	yfeR	putative_tr	2536770	
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100	1	100	STM2526	ndk	nucleoside	2660070	
100	0	59.804	STM0915		Fels-1_pro	986714	
100	1	100	STM2510	guaA	GMP_syntl	2622805	
100	1	100	STM2544	yfhP	believed_tc	2682931	
100	0	65.347	STM2586	aSTM1868	Gifsy-1_pro	2733337	
100	1	100	STM4059	cpxR	response_I	4269746	
100	0	87	STM4213		putative_pl	4433964	
100	1	100	STM2911		putative_pe	3053279	
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100	1	100	STM2486		putative_in	2601110
100	1	100	STM0972		homologou	1054061
100	1	100	STM1003		putative_tr	1095317
100	1	100	STM0991	smtA	S-adenosyl	1077406
100	1	100	STM1953	yedO	putative_1-	2042050
100	1	100	STM2075	hisH	glutamine_	2154058
100	1	100	STM2333	yfbS	putative_re	2443994
100	1	100	STM2054	pduT	Propanedic	2130094
100	1	100	STM1270	yeaS	paral_putat	1350595
100	1	100	STM1132		putative_su	1221641
100	1	100	STM1327	ydiY	putative_sa	1406311
100	1	100	STM0371	prpE	putative_ac	421688
100	1	100	STM1318	katE	catalase;_f	1397114
100	1	100	STM4355	yjeS	putative_Fc	4597229
100	0	100	aSTM1995			
100	1	100	STM1390	orf242	putative_re	1475260
100	1	100	STM4378	yjfN	putative_in	4621281
100	0	64.356	STM4418		sugar_(anc	4659425
100	1	100	STM2276	ubiG	3-demethyl	2380316
100	0	63.462	STM4494		putative_Al	4742171
100	1	100	STM4519		putative_N.	4774458
100	1	100	STM2298	pmrF	putative_gl	2405113
100	1	99	STM2332		putative_hy	2443303
100	0	63.889	STM4537		putative_P'	4795858
100	1	100	STM1269		putative_cf	1349853
100	0	64.22	STM0200	stfG	putative_m	235734
100	1	100	STM0368	prpB	putative_ca	417977
100	1	100	STM2649	trxC	thioredoxin	2788654
100	1	100	STM0390	aroM	protein_of_	441859
100	1	100	STM4236	dgkA	diacylglyce	4458772
100	1	100	STM2347	yfcE	putative_pt	2459019
100	1	100	STM2297	yfbE	putative_Di	2403953
100	1	100	STM4226	yjbA	putative_in	4446172
100	1	100	STM1375	ynhG	putative_Ly	1457989
100	1	100	STM1582	nhoA	putative_ar	1668376
100	1	100	STM2265	ada	bifunctiona	2363134
100	1	100	STM3785		putative_re	3984439
100	1	100	STM2577	acpS	holo-[acyl-c	2722062
100	1	100	STM0165	speD	S-adenosyl	194201
100	1	100	STM2061	sbmC	DNA_gyras	2135405
100	1	100	STM0146	ampD	N-acetyl-ar	169354
100	1	100	STM0156		putative_pe	183042
100	1	100	STM1333	thrS	threonine_t	1412202
100	1	100	STM0425	thil	sulfur_tran	477868
100	1	100	STM1477	ydgl	putative_ar	1552544
100	1	100	STM0495	ybaK	putative_cy	555403
100	1	100	STM0496	ybaP	putative_cy	556084
100	1	100	STM0594	fepB	ABC_supe	654990
100	1	100	STM4475	valS	valine_tRN	4717013
100	1	100	STM4598	arcA	response_i	4855370
100	1	100	STM3216		putative_m	3380802
100	1	100	STM3743	spoU	putative_tR	3936186

100	1	100	STM1260		putative_in	1343990	
100	1	100	STM2421		xapB	MFS_supe	2533547
100	1	100	STM2773		iroB	putative_gl	2916377
100	0	61.386	STM2604			Gifsy-1_pr	2751976
100	1	100	STM1019	STM2621		Gifsy-2_pr	1109305
100	0	56.863	STM2606			Gifsy-1_pr	2753822
100	1	100	STM2642		yfiC	putative_tr	2782035
100	1	100	STM3192			putative_ar	3355503
100	1	100	STM3587		yhil	paral_puta	3755696
100	1	100	STM3490		yrfB	putative_in	3644757
100	1	100	STM2453			putative_cy	2562583
100	1	100	STM2887		spaS	surface_pr	3031533
100	0	98	STM2465		eutM	putative_de	2575212
100	1	100	STM4056		yiiM	putative_cy	4267166
100	1	100	STM0661		ybeK	putative_pt	725558
100	1	100	STM0708		ybfA	putative_pe	774461
100	1	100	STM2900		invH	invasion_p	3044389
100	1	100	STM0552		fimW	putative_fir	612706
100	1	100	STM0784		ybhA	putative_hy	848199
100	1	100	STM0771			putative_Al	835496
100	1	100	STM1070		ompA	putative_hy	1160965
100	1	100	STM1177		flgE	flagellar_bi	1259808
100	1	100	STM1776		prfA	peptide_ch	1873331
100	1	100	STM1928		otsA	trehalose-6	2023300
100	1	99	STM1999			putative_cy	2081709
100	1	100	STM3869		atpF	membrane	4078536
100	1	100	STM1435		gloA	glyoxalase_	1512450
100	1	100	STM1952		yecS	putative_Al	2041361
100	1	100	STM1675			putative_st	1768000
100	1	100	STM2638		rseB	anti_sigma	2777790
100	1	100	STM0730		gltA	citrate_syn	795954
100	1	100	STM1230		phoQ	sensory_ki	1317226
100	1	100	STM4175		purD	phosphorib	4391161
100	1	100	STM3286		infB	protein_ch	3453610
100	1	99	STM2041		pduD	Propanedic	2119633
100	1	100	STM4453		treC	trehalose_	4695100
100	1	100	STM1394		ssaC	Secretion_	1480402
100	1	100	STM1194		fabD	malonyl-Cc	1278281
100	1	100	STM1705		osmB	osmotically	1799923
100	1	100	STM3355			putative_ta	3522864
100	1	100	STM3721		rfaP	lipopolysac	3915948
100	0	79	STM1009	STM2632		Gifsy-2_pr	1101256
100	1	100	STM1143		csgB	minor_curli	1231133
100	1	100	STM3979		ubiB	FMN_reduc	4185162
100	1	100	STM2673		rpIS	50S_ribosc	2814873
100	1	100	STM3925		wecE	TDP-4-oxo	4133663
100	1	100	STM3906			putative_cy	4115668
100	1	100	STM1181		flgl	putative_fl	1263356
100	1	100	STM3477		cysG	siroheme_	3627468
100	1	100	STM3002		lgt	phosphatid	3158818
100	1	100	STM3210		dnaG	DNA_biosy	3374506
100	1	100	STM0427		phnU	2-aminoeth	480160

100	1	100	STM4036	fdoH	formate_de	4243843
100	1	100	STM0828	glnQ	ABC_supe	894742
100	1	100	STM3982	fadA	3-ketoacyl-	4188137
100	1	100	STM1914	flhB	putative_pr	2010283
100	1	100	STM0996	ycbK	putative_ot	1087121
100	1	100	STM3677	sgbE	L-ribulose-	3863965
100	1	100	STM0179	yadE	putative_xy	209795
100	1	100	STM0608	ahpC	alkyl_hydr	670449
100	1	100	STM3011	galR	transcriptio	3170624
100	1	100	STM4039		putative_in	4249107
100	1	100	STM1893	zunB	ABC_supe	1988190
100	1	100	STM1559		putative_gl	1638192
100	1	100	STM1578	narY	nitrate_red	1664425
100	1	100	STM1580	narV	nitrate_red	1666661
100	1	100	STM0337	stbD	putative_fir	379705
100	1	100	STM1739	cls	cardiolipin_	1832868
100	1	100	STM1800	ycgQ	putative_hc	1898798
100	1	100	STM1847	yebR	putative_G	1943986
100	1	100	STM1891	znuA	ABC_supe	1986415
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100	0	100	STM0479		putative_tr	537930
100	1	100	STM0613		putative_hy	676537
100	0	73	STM0571		putative_in	629330
100	1	100	STM0591	fepG	ABC_supe	651576
100	1	100	STM0341		putative_in	385573
100	1	100	STM0624	citC	citrate_lyas	686566
100	0	62.376	STM1552		putative_cy	1627919
100	1	100	STM1793		putative_cy	1891949
100	0	60.784	STM1630		putative_in	1720151
100	1	100	STM1886	zwf	glucose-6-p	1979667
100	0	59.292	STM1933		putative_rit	2027922
100	0	63.462	STM3169		putative_di	3331597
100	1	100	STM2692		putative_Hl	2842712
100	1	100	STM3069	pgk	phosphogly	3230692
100	1	100	STM0410		putative_re	465699
100	1	100	STM3152		putative_m	3314324
100	1	100	STM2832	srlA	PTS_family	2978308
100	0	100	STM0266		putative_cy	304665
100	1	100	STM4529		putative_cy	4785923
100	1	100	STM2978	fucU	conserved_	3131516
100	0	92	STM2697		Fels-2_pro	2846293
100	1	100	STM0386	proC	pyrroline-5-	439256
100	1	100	STM0439	cyoE	protohaem	493354
100	1	100	STM3004	ygdP	putative_in	3162168
100	1	100	STM4445		putative_di	4686469
100	1	100	STM1504	ynfA	putative_in	1581800
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100	1	100	STM2838	gutQ	putative_pc	2982442
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100	0	100	STM0350		homology_	392419
100	1	100	STM2828	oraA	regulator	2974237
100	1	100	STM2191	galS	transcriptio	2288115

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100	1	100	STM2140	yegS	putative_di	2234013
100	1	100	STM2172	yohG	putative_O	2268829
100	1	100	STM2204	fruA	Sugar_Spe	2303581
100	1	100	STM2142	yegT	putative_M	2236271
100	1	100	STM2175		putative_m	2271771
100	1	100	STM3671	yiaM	putative_tr	3858208
100	1	100	STM0930	orfB	putative_cy	1005367
100	1	100	STM4369	yjfH	putative_tR	4613593
100	1	100	STM3451	yheN	putative_A	3603486
100	1	100	STM4362	hflX	putative_G	4604955
100	1	100	STM3279	mtr	HAAAP_fa	3444787
100	1	100	STM4583	trpR	transcriptio	4841030
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100	1	100	STM2213	yeiU	putative_pe	2312525
100	1	100	STM3112	mltC	membrane	3270153
100	0	100	STM3061	ygfA	putative_li	3222350
100	1	100	STM0756	nadA	quinolinate	820233
100	1	100	STM0821	dinG	LexA_regu	887158
100	1	100	STM3042	recJ	ssDNA_ex	3201949
100	1	100	STM3267	yraP	paral_putat	3436344
100	1	100	STM0806	moaE	molybdopte	872889
100	1	100	STM0852	yliG	putative_Fe	923529
100	1	100	STM1384	ttrC	Tetrathiona	1469410
100	1	100	STM3231	yqjK	putative_in	3397501
100	0	100	STM2771	aSTM1959 fljB	Flagellar_s	2913230
100	1	100	STM3073		putative_Al	3234327
100	1	100	STM0843	pflF	putative_py	911347
100	1	100	STM0378	yaiY	putative_in	432726
100	1	100	STM0446	bolA	morphogere	501001
100	0	64.706	STM4489		putative_st	4731963
100	0	78	STM2694		Fels-2_pro	2844427
100	0	61.386	STM4535		putative_P	4794934
100	0	98	STM4335	ecnA	putative_er	4580195
100	0	58.654	STM4320		putative_ba	4565999
100	1	100	STM4324	cutA	putative_pe	4569061
100	1	100	STM4340	frdD	fumarate_r	4582479
100	1	100	STM2899	invF	invasion_p	3043282
100	1	100	STM1779	ipk	isopenteny	1876644
100	1	100	STM2709		Fels-2_pro	2857059
100	1	100	STM2107	wcaH	GDP-manr	2191160
100	1	100	STM3605		putative_pt	3779106
100	1	100	STM3303	rpmA	50S_ribosc	3472501
100	1	100	STM3111	yggX	putative_cy	3269765
100	1	100	STM3052		putative_ou	3210788
100	1	100	STM1888	pykA	pyruvate_k	1982477
100	1	100	STM1644	ydbL	putative_pe	1736631
100	1	99	STM3361	yhcN	putative_ou	3528863
100	1	100	STM2059	yeeX	putative_cy	2133648
100	1	100	STM0290		putative_cy	332086
100	1	100	STM2426		putative_cy	2538781
100	0	59.434	STM2584	gogB	Gifsy-1_prc	2728976

100	1	99 STM2492		putative_G	2606156
100	1	100 STM2518	yfgJ	putative_cy	2651147
100	1	100 STM2380	yfcL	putative_cy	2492048
100	1	100 STM2400		putative_in	2513797
100	1	100 STM1770	chaB	cation_tran	1868756
100	1	100 STM0635	lipB	putative_liç	697288
100	1	100 STM0688	ybfN	putative_liç	750990
100	1	100 STM2365	folC	multifunctic	2477354
100	0	62.5 PSLT046		putative_cç	P37528
100	0	60.784 PSLT025		putative_cy	P18119
100	0	61.386 PSLT001		putative_cy	P00094
100	0	65.385 PSLT111	finO	conjugative	P93355
100	0	63 PSLT061		putative_in	P50928
100	0	63 PSLT027	ccdA	toxin_addic	P20096
100	0	77.451 PSLT002		putative_pł	P00712
100	0	41.026 PSLT005	tap	replication_	P01850
56.731	0	66		R1032	
100	1	100 STM0475	acrB	RND_famil	529247
100	0	100 aSTM0479			
100	0	97 aSTM0521			
100	1	99 STM0555		pseudogen	613750
100	0	100 aSTM0585			
100	0	100 aSTM0621			
59.223	1	100			
63.725	1	100			
61.682	1	100			
80	0	100			
61.165	1	100			
62	1	100			
63.725	1	100			
82	1	100			
57.944	1	100			
60.396	0	100			
44.118	1	100			
70	1	100			
65	1	100			
100	1	100 aSTM1457			
63.725	0	100			
62.5	0	100			
64.151	0	100			
58.095	1	100			
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59.259	1	100			
61.765	1	100			
79	1	100			
61.538	1	100			
63.81	1	100			
98	0	100 aSTM2732			
60	1	100			
55.238	1	100			
73	1	100			

77	1	100				
59.048	1	100				
58.095	1	100				
99	1	100		aSTM4281		
59.406	1	100				
58.252	1	100				
95	1	100		aSTM0324		
100	1	100	STM0172	yadG	putative_Al	202181
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100	1	100	STM1511	ydfG	putative_o	1588802
100	1	100	STM4292	basR	response_I	4533719
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100	1	100	STM3872	atpl	membrane	4080176
100	1	100	STM3385	fis	site-specifi	3556262
100	1	100	STM2034	cibB	synthesis_c	2111466
100	1	100	STM2018	cobU	bifunctiona	2099140
100	1	100	STM0061	citF2	putativ_bifl	70880
100	1	100	STM3305	ispB	octaprenyl_	3473347
100	0	64.078	STM3343		putative_cy	3511454
100	1	100	STM0095	rluA	23S_rRNA	109331
100	1	100	STM0152	aceE	pyruvate_d	176240
100	0	66.019	STM0177	stiA	putative_fir	208383
100	1	100	STM0208	dgt	deoxyguan	242845
100	1	100	STM0240	yaeJ	putative-tR	281234
100	0	100	STM1524	ynel	putative_su	1601183
100	1	100	STM0648	leuS	leucine_tRl	709125
100	0	50	STM0672		putative_in	737297
100	1	100	STM0716		putative_pt	781628
100	1	100	STM4552		putative_in	4810361
100	1	100	STM2715		Fels-2_pro	2859833
100	0	71	STM2749		putative_cy	2888824
100	1	100	STM4563	yjjU	putative_pt	4816910
100	1	100	STM4593	sthB	putative_fir	4849512
100	0	64.706	STM0293		putative_cy	337829
100	0	71	STM0326		pseudogen	369924
100	0	58.252	STM1053		Gifsy-2_pr	1141587
100	1	100	STM4330	mopA	chaperone	4575111
100	1	100	STM0312	yafK	putative_pe	356810
100	0	63.462	STM1045		Gifsy-2_pr	1130676
100	1	100	STM1079	yccV	putative_in	1170371
100	1	100	STM1122	ycdC	putative_tr	1206508
100	1	100	STM1157	yceI	putative_se	1244860
100	1	100	STM1205	ycfF	putative_pr	1290403
100	1	100	STM1081		putative_ou	1172172
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100	1	100	STM3456	yheV	putative_cy	3607000
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100	1	100	STM3541	gntU	low_affinity	3710158
100	1	100	STM0964	dmsA	anaerobic_	1045321
100	1	100	STM4014		putative_pe	4222967
100	1	100	STM4075	ydeY	putative_Al	4285030

100	0	69	STM4115		pflC	putative_py	4331077
100	1	100	STM2859		fhIA	formate_hy	3003702
100	0	100	STM2917		ygbK	paral_putat	3059448
100	1	100	STM4108		gldA	glycerol_de	4322703
100	1	100	STM2850		hycD	hydrogena:	2995621
100	0	100	STM2908			putative_cy	3049599
100	0	62.745	STM2942			putative_tr:	3081915
100	1	100	STM2413		yfeC	putative_ne	2529353
100	1	100	STM2480		narQ	sensory_hi	2591762
100	0	84	STM1026	aSTM2614		Gifsy-2_prc	1113935
100	1	100	STM4085		glpX	unknown_f	4293220
100	0	69.903	STM4112		frwC	PTS_syste	4327301
100	1	100	STM4287		phnO	putative_re	4529018
100	0	60	STM4346		yjeO	putative_in	4588852
100	1	100	STM2422		xapA	xanthosine	2534858
100	1	100	STM1258			putative_A`	1342527
100	1	100	STM1480		pntB	pyridine_nu	1557235
100	0	100	STM2514		ratB	putative_ot	2634402
100	1	100	STM0022		bcfB	fimbrial_ch	25112
100	1	100	STM4373		yjfK	putative_cy	4616616
100	1	100	STM4409		ytfM	putative_ot	4646053
100	1	100	STM4416		mpl	UDP-N-acc	4656671
100	1	100	STM2274			putative_pe	2377974
100	0	60.55	STM4492			putative_cy	4738772
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100	1	100	STM1133			putative_de	1222932
100	1	100	STM1334		infC	protein_ch:	1414242
100	1	100	STM2357			putative_ar	2467178
100	1	100	STM1255			putative_Al	1339123
100	0	73	STM0198		stfE	putaive_mi	234749
100	1	100	STM1153		msyB	acidic_prot	1240791
100	1	100	STM1282		yeaK	putative_cy	1357717
100	1	100	STM1427		cfa	cyclopropa	1504235
100	1	100	STM1160		solA	putative_sa	1246421
100	1	100	STM1294		ansA	cytoplasmic	1371798
100	1	100	STM3997		dsbA	periplasmic	4204199
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100	0	64.356	STM1868	aSTM2586	mig-3	Homology_	1963476
100	1	100	STM1449		tyrS	tyrosine_tR	1523487
100	1	100	STM1373		sufS	selenocyste	1456185
100	1	100	STM1170		mviN	putative_vit	1254964
100	1	99	STM1416		ssaO	Secretion_	1496995
100	1	100	STM3873		gidB	associate_	4081172
100	1	100	STM2646		yfiD	putative_fo	2785906
100	1	100	STM0236		mesJ	cell_cycle_	278671
100	1	100	STM0401		malZ	maltodextri	456184
100	1	100	STM4189		yjbB	putative_PI	4412289
100	1	100	STM4273		yjcG	putative_S'	4511508
100	1	100	STM1306		astB	succinylarg	1385917
100	1	100	STM1345		ydiU	putative_cy	1423573
100	1	100	STM1439		ydhF	putative_al	1515074
100	0	59.048	STM2770		fljA	Flagellar_s	2912623

100	1	100 STM2097		rfbB	dTDP-gluc	2177495
100	1	100 STM2571			putative_ar	2716579
100	1	100 STM0205		yadS	putative_in	240609
100	1	100 STM0076		fixB	putative_el	89470
100	1	100 STM0147		ampE	putative_tr	169914
100	1	100 STM3613		yhjJ	putative_Zr	3788563
100	1	100 STM3523		glpR	transcriptio	3686448
100	1	100 STM2305		menE	o-succinylb	2411673
100	1	100 STM2520		yfgL	putative_se	2653048
100	0	100	STM0412		putative_in	467156
100	1	100 STM0558		yfdH	putative_gl	616437
100	1	100 STM4577		smp	membrane	4832463
100	1	100 STM3666		ysaA	paral_putat	3854019
100	1	100 STM3604			putative_in	3777236
100	1	100 STM3494		yrfE	putative_N'	3649301
100	1	100 STM2290		yfaV	putative_M	2396869
100	1	100 STM2497		uraA	NCS2_fam	2610656
100	1	100 STM2337		ackA	acetate_kir	2447939
100	1	100 STM1015	STM2625		Gifsy-2_pr	1107230
100	1	100 STM0532		arcC	putative_ca	595118
100	1	100 STM4407		ytfL	putative_he	4643676
100	0	91 STM2616			Gifsy-1_pr	2762064
100	1	100 STM3179		mdaB	NADPH_sp	3342910
100	1	100 STM3484		dam	DNA_aden	3638690
100	1	100 STM2206		fruF	phosphoen	2306224
100	1	100 STM2278		nrdB	ribonucleos	2383798
100	1	100 STM2456		eutL	putative_ca	2565667
100	1	100 STM4080			putative_rit	4289409
100	1	100 STM0695		ybfE	LexA_regu	757809
100	1	100 STM1242		envE	putative_er	1329896
100	1	100 STM2886		sicA	surface_pr	3030898
100	1	100 STM3996		yihE	putative_hc	4203196
100	1	100 STM0853		yliH	putative_cy	925085
100	1	100 STM3464		prkB	putative_pt	3613968
100	1	100 STM4187		iclR	acetate_op	4407211
100	1	100 STM1676			putative_al	1768804
100	1	100 STM3416		rpsD	30S_ribosc	3584316
100	1	100 STM2184		sanA	vancomycil	2280227
100	1	100 STM1731			putative_ca	1826933
100	1	100 STM4173		hydH	sensory_ki	4388436
100	1	100 STM2505	aSTM2506		putative_in	2621103
100	1	100 STM3003		ptsP	General_P'	3159909
100	0	100	STM2891;	spaO	surface pre	3034335
100	1	100 STM2065		phsA	Hydrogen s	2138675
100	1	100 STM3363		yhcO	putative cy	3529556
100	1	100 STM0016			putative pro	16493
100	1	99 STM0560			pseudogen	618145
100	1	100 STM0047		lspA	prolipoprot	56689
100	1	100 STM0715			putative cy	781437
100	1	100 STM1666			pseudogen	1759249
100	1	100 STM4018		yihP	putative GF	4227237
100	1	100 STM2408		mntH	Nramp fam	2523719

100	1	100	STM2189	mgIA	ABC super	2284964
100	1	100	STM1365	ydiJ	paral putati	1446504
100	1	100	STM1763	narH	nitrate redu	1856881
100	1	100	STM1798	ycgR	putative inr	1897268
100	1	100	STM3020		putative tra	3180959
100	1	100	STM2962	gudT	putative MF	3113237
100	1	100	STM3008	tas	putative alc	3165550
100	1	100	STM3984	pepQ	proline dip	4191689
100	1	100	STM3539	asd	aspartate-s	3708628
100	1	100	STM0092	surA	peptidyl-pro	104470
100	1	100	STM3922	rffG	dTDP-gluc	4131679
100	1	100	STM3903	ilvE	branched-c	4110897
100	1	100	STM1752	galU	glucose-1-p	1847828
100	1	100	STM4153	rpoB	RNA polym	4365908
100	1	100	STM1808		putative cy	1909153
100	1	100	STM0103	araB	L-ribulokin	119590
100	1	100	STM1745	oppB	ABC super	1838566
100	1	100	STM2166	bglX	beta-D-gluc	2261173
100	0	100	STM3981		putative cy	4186882
100	1	100	STM0597	entB	2,3-dihydro	659064
100	1	100	STM1710	pgpB	phosphatid	1803149
100	1	100	STM1755	yehJ	putative cy	1851059
100	0	86.139	STM1596	ydcX	putative inr	1686262
100	1	100	STM1622	ydcG	paral putati	1709827
100	1	100	STM1657		putative me	1751277
100	1	100	STM1672		putative cy	1765644
100	1	100	STM0490	aes	acetyl este	547873
100	1	100	STM0622	citE	citrate lyas	685368
100	1	100	STM3750	yicJ	putative GF	3946906
100	1	100	STM1581	yddE	putative ph	1667447
100	1	100	STM1716	sohB	putative pe	1813085
100	1	100	STM1607		putative ou	1697538
100	1	100	STM1561		putative ou	1642630
100	0	100	STM1593	srfA	ssrAB activ	1679771
100	1	100	STM1619		cryptic ami	1707358
100	1	100	STM1883	purT	phosphorib	1975664
100	1	100	STM1701	yciW	putative cy	1793124
100	1	100	STM1708	yciM	putative N-	1801515
100	1	100	STM2677	ffh	4.5S-RNP	2817202
100	1	100	STM3031		ail and omp	3193102
100	0	63	STM3082		putative zir	3243347
100	1	100	STM0433	thiJ	4-methyl-5	486227
100	1	100	STM0457	cof	putative hy	514231
100	0	69	STM3599		putative inr	3771094
100	1	100	STM3050	yqfB	putative cy	3208837
100	1	100	STM3685	mtlA	PTS family	3875267
100	1	100	STM3777		putative cy	3978794
100	1	100	STM2976	fucl	L-fucose is	3128220
100	1	100	STM3025		putative cy	3185253
100	1	100	STM3142		putative fer	3306074
100	1	100	STM3603	treF	cytoplasmic	3775574
100	1	100	STM3104	yggW	putative ox	3263114

100	1	100	STM3693	lldR	putative tra	3887564
100	1	100	STM3780		putative fru	3979830
100	1	100	STM2668		putative cy	2809378
100	1	100	STM2160	yehV	putative tra	2256368
100	1	100	STM2082	rfbP	LPS side c	2160931
100	1	100	STM2114	wcaB	putative ac	2197480
100	1	100	STM2170	yohD	putative De	2267357
100	1	100	STM3404	smg	putative cy	3575235
100	1	100	STM3607	yhjC	putative tra	3780701
100	1	100	STM1811	ycgN	putative cy	1910420
100	1	100	STM3646	yiaE	2-keto-D-gl	3833687
100	1	100	STM3549		putative inr	3718415
100	1	100	STM3326	mtgA	peptidoglyc	3488887
100	1	100	STM4480	yjgQ	putative pe	4723454
100	1	100	STM4322	yjdC	putative ba	4566770
100	1	100	STM3309	yrbB	putative ST	3476650
100	1	100	STM3244	tdcB	threonine c	3411386
100	1	100	STM3146	hybD	putative pro	3308293
100	1	100	STM2835	srID	glucitol (so	2980225
100	0	66	STM2003		pseudogen	2083492
100	0	100		STM2195	putative tra	2292287
100	1	100	STM2198		putative re	2295185
100	0	62.857	STM2234		putative tai	2334834
100	1	100	STM2205	fruK	fructose-1-	2305286
100	1	100	STM3403	yrdD	putative DM	3574666
100	1	100	STM3434	rpsC	30S riboso	3592442
100	1	100	STM3033		putative nu	3195156
100	1	100	STM0874	mdaA	oxygen-ins	945781
100	1	100	STM3198		putative inr	3359781
100	1	100	STM3091	galP	MFS family	3253339
100	1	100	STM1078		putative cy	1169910
100	1	99	STM0804	moaC	molybdopte	872164
100	1	100	STM0850	yliC	putative AE	921604
100	1	100	STM1091	sopB	Salmonella	1178231
100	1	100	STM0745	tolQ	tol protein,	813428
100	1	100	STM0794	bioB	biotin synth	860170
100	1	100	STM0841	ybiU	putative cy	908933
100	1	100	STM3331	gltD	glutamate :	3498993
100	1	100	STM3757	misL	putative au	3954761
100	1	100	STM2665	yfiA	ribosome a	2807668
100	1	100	STM2387	sixA	phosphohis	2497411
100	1	100	STM4240	yjbJ	putative cy	4461489
100	1	100	STM3415	rpoA	RNA polym	3583301
100	1	100	STM1692	sapA	ABC super	1783678
100	1	100	STM0462	glnK	regulatory |	520524
100	1	100	STM4042A		putative br	4252841
100	1	100	STM0721		putative gly	786074
100	1	100	STM4141		putative cy	4359853
100	0	62.5	STM2439	yfeL	putative me	2550981
100	0	60	STM1011	STM2629	Gifsy-2 pro	1104740
100	0	75	STM4206		putative ph	4426919
100	0	100	STM2722		Fels-2 prop	2864035

100	1	100	STM1882	yebG	DNA dama	1975243
100	0	99	STM2713	aSTM2714	Fels-2 pro	2858895
100	0	95	STM2727		Fels-2 pro	2869683
100	1	100	STM4088	yiiU	putative cy	4297115
100	1	100	STM2931	ygbQ	putative Se	3071474
100	1	99	STM1376	lppB	putative m	1459057
100	1	100	STM1367	ydiH	putative cy	1450027
100	0	100	STM1447	ydhA	putative ou	1522316
100	1	98	STM1056		Gifsy-2 pro	1143523
100	1	100	STM2464	eutN	putative de	2574812
100	1	100	STM0160	yacL	putative cy	189603
100	0	96	STM4191		putative cy	4414757
100	1	99	STM1856		putative cy	1953418
100	1	100	STM1833		putative inr	1931276
100	1	100	STM1875	yobA	putative ho	1969542
100	1	100	STM1869		Homology 1	1965507
100	1	100	STM1926		putative cy	2022741
100	0	63	PSLT022	aPSLT021	pseudogen P	16074
100	0	61.165	PSLT095	traN	conjugative P	74623
100	0	63.107	PSLT058	aPSLT059	pseudogen P	49454
100	0	62.264	PSLT096	trbE	conjugative P	76460
100	0	61.765	PSLT003	repC	DNA replic	P01334
100	0	60.396	PSLT089	trbI	conjugative P	71216
60.396	0	60		stbB		R20934
60.952	0	60.952		fip		R14184
45.631	0	45.631		ccgD		R25466
56	0	56		traA		R4537
59.434	0	51.961		ORF2		R1729
63.107	0	59.259		orfD		R37828
100	0	100	aSTM0637			
100	0	61.165	aSTM0657			
100	0	100	aSTM0740			
100	0	58.824	aSTM2600			
100	0	60	STM2614		Gifsy-1 pro	2760468
100	0	100	aSTM2646			
78	1	100				
59.223	1	100				
50	1	100				
98	0	100		aSTM2720		
80	1	100				
64	1	100				
62.857	1	100				
60.377	1	100				
95	1	100				
94	0	100				
99	1	100		aSTM3755		
100	1	100		aSTM1506		
61.682	1	100				
56.731	1	100				
88	0	100				
67.327	1	100				
61.111	1	100				

60	1	100			
99	0	100	aSTM2722		
92	0	100			
62.5	1	100			
97	1	100	aSTM0283		
62.376	1	100			
61.321	1	100			
99	0	100	aSTM3657		
61.538	1	100			
53.333	1	100			
60.194	1	100			
96	1	100		aPSLT012	
100	1	100	aSTM3656		
60	1	100			
60.577	1	100			
98	1	100		aSTM4312	
95	1	100			
97	1	100			
62.385	1	100			
100	1	100	STM3371	yhdE	putative int 3541306
100	0	64.151	STM0657	ybeU	putative cy 720347
100	1	100	STM0691		putative pe 753852
100	1	100	STM3822	torA	trimethylar 4020811
100	0	71.569	STM3171	ygiK	putative int 3333115
100	1	100	STM2020	cbiO	synthesis c 2101199
100	1	100	STM3834		putative tra 4037940
100	1	100	STM3857	pstS	ABC super 4063585
100	1	100	STM3787	uhpT	MFS family 3986180
100	0	100	STM0079	yaaU	putative MF 92178
100	1	100	STM0129	murC	L-alanine a 151143
100	1	100	STM0163		pyridoxine 192411
100	1	100	STM0120	yabC	putative S- 140407
100	1	100	STM3345	rplM	50S riboso 3512814
100	1	100	STM3380	accC	acetyl CoA 3550576
100	1	100	STM0644	cobD	putative arr 705777
100	1	100	STM0665	gltI	ABC super 728909
100	1	100	STM0698	pgm	phosphogl 759758
100	1	100	STM0227	fabZ	(3R)-hydro. 266536
100	1	100	STM1509	ydfZ	putative cy 1587602
100	1	100	STM2098	galF	putative glt 2178957
100	1	100	STM2125	yegD	putative he 2212491
100	1	100	STM0255	yafB	2,5-diketo-l 295069
100	1	99	STM0300	safB	putative fir 342829
100	1	100	STM2129	yegB	putative MF 2221725
100	1	99	STM2719		Fels-2 prop 2861303
100	0	61.165	STM2751		putative PT 2889739
100	0	64.815	STM2767		putative Su 2908420
100	1	100	STM2795	ygaU	putative Ly 2945151
100	0	100	STM1099	hpaB	4-hydroxyp 1185726
100	0	62.264	STM2761		putative inr 2901480
100	0	100	STM2786		tricarboxyli 2934590
100	0	98	STM1089		putative inr 1177543

100	1	100	STM3419	rpmJ	50S riboso	3585879
100	1	100	STM3466	crp	catabolite ε	3615645
100	1	100	STM3499	yhgE	putative inr	3654477
100	1	100	STM1094	pipD	Pathogenic	1180638
100	1	100	STM1127		putative tra	1215275
100	1	100	STM1161	yceP	putative cyf	1247652
100	1	100	STM1207	ycfM	putative ou	1291153
100	1	100	STM1239		putative cyf	1326083
100	1	100	STM1280	yeaL	putative inr	1357003
100	1	100	STM0980	cmk	cytidine mc	1064994
100	0	63.551	STM1038		Gifsy-2 pro	1124410
100	0	70	STM4211		putative ph	4430534
100	1	100	STM4245	qor	quinone ox	4465543
100	1	100	STM4282	nrfG	part of forr	4522051
100	1	100	STM2928	ygbO	paral putati	3069220
100	1	100	STM4223	yjbF	putative ou	4442531
100	1	100	STM4270		putative tra	4509386
100	1	100	STM4306		putative an	4554323
100	1	100	STM2378	fabB	3-oxoacyl-[	2488622
100	1	100	STM2435	pdxK	pyridoxal-p	2547554
100	0	69	STM0924		Fels-1 proç	994962
100	1	100	STM4034	fdhE	putative for	4242285
100	0	75.248	STM4208		putative cyf	4428341
100	1	100	STM4235	plsB	glycerolphc	4456181
100	1	100	STM2912		putative tra	3054575
100	1	100	STM2950		putative mε	3093384
100	0	59.048	STM0902		Fels-1 proç	972547
100	1	100	STM1315	celD	transcriptio	1393977
100	1	100	STM2466	eutD	putative ph	2575543
100	1	100	STM1232	purB	adenylosuc	1319487
100	1	100	STM1432	ydhO	putative ce	1510121
100	0	99	STM1967		putative 50	2055502
100	1	100	STM2256	napB	periplasmic	2354295
100	0	58	STM4424		putative en	4666970
100	1	100	STM4447		putative pe	4688701
100	1	100	STM2321	nuol	NADH deh	2430363
100	1	100	STM2348	yfcF	putataive g	2459626
100	1	100	STM1955	fliZ	putative reç	2044137
100	0	78	STM0196	stfC	putative firr	231303
100	1	100	STM1927	yecG	putative un	2022854
100	1	100	STM1307	astE	succinylglu	1387253
100	1	100	STM1448	pdxH	pyridoxine	1522704
100	1	100	STM4064	cdh	CDP-diacyl	4274586
100	1	100	STM2863	sitC	Salmonella	3008100
100	1	100	STM1452	ydgR	putative PC	1526450
100	0	99	STM2513	shdA	similar to th	2627589
100	1	100	STM1346	ydiE	putative cyf	1425050
100	1	100	STM1454	ydgQ	putative N/	1529192
100	1	100	STM1430	purR	transcriptio	1507920
100	1	100	STM1371	sufC	putative AE	1454196
100	0	100		STM2869; orgA	putative fla	3013788
100	1	100	STM1434	rnt	RNase T, c	1511702

100	1	100	STM1482	ydgF	putative me	1560250
100	0	86	STM2088	rfbX	LPS side cl	2168625
100	1	100	STM3800	dsdC	transcriptio	4001949
100	1	100	STM2647	ung	uracil-DNA	2786608
100	1	100	STM0397	phoB	response r	450795
100	1	100	STM0245	yaeC	putative ou	285523
100	1	100	STM0100		putative cy	116816
100	1	100	STM0070	caiD	carnitine ra	81725
100	1	100	STM1950	sdiA	transcriptio	2039658
100	1	100	STM1683	tyrR	transcriptio	1776180
100	1	100	STM3563	livH	ABC super	3731407
100	1	100	STM1490		putative ch	1567098
100	1	100	STM3793		putative su	3993591
100	1	100	STM0357	mod	DNA methy	403331
100	1	100	STM0416	ribD	bifunctiona	469844
100	1	100	STM4233	ubiC	chorismate	4454699
100	1	100	STM0097	polB	DNA polyr	113082
100	1	100	STM3239	yhaO	putative H/	3403351
100	1	100	STM3481	trpS	tryptophan	3636247
100	1	100	STM0345		putative inr	389499
100	1	100	STM2442	cysW	ABC super	2553717
100	1	100	STM0507	ybbA	putative AE	566439
100	1	100	STM0605	ybdN	putative 3'-	666642
100	1	100	STM2651	yfiQ	putative ac	2789880
100	1	100	STM3204	cca	tRNA nucle	3369221
100	1	100	STM3248	garR	tartronate s	3416453
100	1	100	STM3276	yhbW	putative alk	3442333
100	0	60	STM1043		Gfsy-2 pro	1129424
100	1	100	STM1013	STM2627	Gfsy-2 pro	1105785
100	1	100	STM2529		putative an	2662287
100	1	100	STM2547		putative hy	2685383
100	1	100	STM0533	purK	phosphorib	596052
100	0	59.615	STM2599		Gfsy-1 pro	2748177
100	1	100	STM4551		putative diç	4809046
100	1	100	STM3707	yibD	putative gly	3901354
100	1	100	STM2353	hisQ	ABC super	2463622
100	1	100	STM0012	dnaK	chaperone	11593
100	1	100	STM1723	trpE	anthranilat	1818550
100	1	100	STM2809	proV	ABC super	2955951
100	1	100	STM4051		putative ou	4262552
100	1	100	STM0646	holA	DNA polym	707489
100	1	100	STM2462	eutJ	paral putati	2572547
100	1	100	STM4125	oxyR	regulatory j	4343080
100	1	100	STM0779	modE	transcriptio	844442
100	1	100	STM0770		putative AE	834417
100	1	100	STM2806	nrdI	stimulates	2952099
100	1	100	STM1339	himA	integration	1419069
100	1	100	STM3379	accB	acetylCoA	3550095
100	1	100	STM0053		putative tra	61794
100	1	100	STM0036		putative arj	41723
100	0	97	STM1245		pseudogen	1331488
100	1	100	STM2010		putative cy	2092807

100	1	100 STM3868	atpH	membrane	4077988
100	1	100 STM2049	pduN	Propanedic	2124929
100	1	100 STM4307		putative an	4554942
100	1	100 STM1909	argS	arginine tR	2002597
100	1	100 STM3367	yhcS	putative tra	3533298
100	1	100 STM3718	rfal	UDP-D-gal	3913515
100	1	100 STM4329	mopB	chaperone	4574774
100	1	100 STM1141	csgE	curli produc	1229328
100	1	100 STM4025	yihW	putative gly	4235755
100	1	100 STM4170	hupA	DNA-bindir	4386709
100	1	99 STM2434		putative cyf	2547318
100	1	100 STM2044	pduH	Propanedic	2122675
100	1	100 STM4296	adi	arginine de	4538697
100	1	100 STM3898	yifE	putative Ly	4106500
100	1	100 STM1961	fliS	flagellar bic	2050820
100	1	100 STM1713	cysB	transcriptio	1808407
100	1	100 STM4247	alr	alanine rac	4468038
100	1	100 STM3321	yhbH	putative sig	3485866
100	1	100 STM0429	phnS	2-aminoethr	482138
100	1	100 STM3976	yigW	putative hy	4182134
100	1	100 STM3959	rhtC	RhtB family	4164469
100	1	100 STM3942		putative cyf	4150114
100	1	100 STM4443		putative inr	4684978
100	1	100 STM0006	yaaJ	putative AC	5966
100	1	100 STM1182	flgJ	flagellar bic	1264453
100	1	100 STM1969	fliF	flagellar bic	2056539
100	1	100 STM2948	cysJ	sulfite redu	3090711
100	1	100 STM3000	ppdA	prepilin pe	3157362
100	1	100 STM3022		putative tra	3182523
100	1	100 STM4089	menG	putative m	4297576
100	1	100 STM3972	aarF	putative re	4178658
100	1	100 STM1588	yncC	putative re	1676097
100	1	100 STM1544	pqaA	PhoPQ-reg	1619783
100	1	100 STM1566	sfcA	NAD-linkec	1645811
100	1	100 STM1812	ycgM	putative Fu	1910959
100	1	100 STM1843		putative tra	1938638
100	1	100 STM1887	yebK	putative tra	1981484
100	1	100 STM1902	yecD	putative isc	1997208
100	1	100 STM0506	tesA	multifunctic	565854
100	1	100 STM0530	yIbE	putative cyf	593034
100	0	100 STM0577		putative tra	636379
100	1	100 STM1642	acpD	acyl carrier	1735437
100	1	100 STM1548		putative S-	1624913
100	1	100 STM1720	yciO	putative tra	1816780
100	1	100 STM1766	narX	sensory his	1864282
100	1	100 STM1805	fadR	negative re	1905889
100	1	100 STM1850	yebU	paral putati	1948575
100	1	99 STM1665		putative cyf	1758535
100	1	100 STM0481	priC	primosoma	539116
100	1	100 STM3166		putative ca	3326399
100	1	100 STM2690		putative ou	2839118
100	1	100 STM4530	yjiA	putative co	4786300

100	1	100 STM0392	rdgC	putative ex	442929
100	1	100 STM3126		putative arr	3285412
100	1	100 STM2567	yfhD	putative pe	2712397
100	1	100 STM2784	tctE	tricarboxyli	2932359
100	1	100 STM3163	yqhC	putative tra	3323045
100	0	87 STM0840	ybiV(2)	putative hy	908009
100	1	100 STM3803	yidF	putative cyf	4005857
100	1	100 STM2663	yfiO	putative lip	2806659
100	0	99 STM2706	aSTM2703	Fels-2 prop	2853995
100	1	100 STM2814	emrA	multidrug r	2961778
100	1	99 STM2804		putative cyf	2951154
100	1	100 STM3663	bax	gene trans	3849391
100	1	100 STM3724	kdtA	3-deoxy-D-	3919338
100	1	100 STM2971	sdaB	L-serine de	3122119
100	1	100 STM2997	ppdC	prepilin pe	3156099
100	1	100 STM2187	yeiA	putative dif	2282628
100	1	100 STM2223	yejH	putative AT	2324548
100	1	100 STM2246	narP	response r	2346702
100	1	100 STM1820	yeaZ	putative mc	1917765
100	1	100 STM3426	rpsH	30S riboso	3589414
100	1	100 STM0944	yljA	putative cyf	1022347
100	1	100 STM0935	poxB	pyruvate de	1010107
100	1	100 STM3437	rplB	50S riboso	3593803
100	1	100 STM4345	yjeM	putative AF	4587298
100	1	100 STM4391	rpsF	30S riboso	4630514
100	1	100 STM3201	glnE	adenylyl tra	3364040
100	1	100 STM3131		putative cyf	3290972
100	1	100 STM4395	yifZ	putative pe	4632101
100	1	100 STM4510		putative as	4764326
100	1	100 STM4325	dcuA	Dcu family,	4569529
100	1	100 STM0375	ampH	penicillin- b	428855
100	1	100 STM2144	yegV	putative su	2238540
100	1	100 STM2219	yejF	putative AT	2320155
100	1	100 STM2227	yejL	putative cyf	2328661
100	1	100 STM2111	wcaE	putative tra	2194318
100	1	100 STM2169	yohC	paral putati	2266638
100	1	100 STM3687	mtlR	repressor f	3878549
100	1	100 STM3608	yhjD	putative tR	3781673
100	1	100 STM3511	yhgl	putative Th	3669438
100	1	100 STM3236	yhaK	putative cyf	3401013
100	1	100 STM1889	msbB	myristoyl tr	1983992
100	1	100 STM1409	ssaJ	Secretion s	1490277
100	1	100 STM0720		putative gly	785165
100	1	100 STM0814	ybhQ	putative inr	879241
100	0	61.321 STM0859		putative tra	932023
100	1	100 STM1062	uup	putative AT	1152005
100	0	60.577 STM0761		fumarate h	824918
100	1	100 STM0807	ybhL	putative pe	873389
100	0	59.091 STM0854		putative cyf	926181
100	1	100 STM1383	ttrA	Tetrathione	1466355
100	1	100 STM3230	yqjE	putative inr	3397106
100	1	100 STM4382	yjfR	putative Zn	4623806

100	0	54	STM1867	STM2585A	pagK	PhoPQ-act	1963179
100	1	100	STM1396		ssaE	Secretion s	1483095
100	1	100	STM0379		yaiZ	putative inr	433302
100	1	100	STM2390		yfcZ	putative cyf	2501740
100	1	98	STM3471		yhfG	putative cyf	3620946
100	1	100	STM2022		cbiN	synthesis c	2102687
100	1	100	STM0431		phnW	2-aminoeth	484208
100	1	100	STM4393		rpsR	30S riboso	4631235
100	1	100	STM3432		rpmC	50S riboso	3591828
100	1	100	STM4449			putative he	4691448
100	1	100	STM0349			putative ou	391990
100	1	100	STM3095		gshB	glutathione	3256939
100	1	99	STM1162		dinI	DNA dama	1248196
100	1	99	STM2906			putative cyf	3048219
100	0	98	STM3806			pseudogen	4007176
100	0	65	STM4214			putative cyf	4435381
100	1	100	STM3463		yheU	putative cyf	3613710
100	1	100	STM0448		clpP	proteolytic	503210
100	1	100	STM1243			homology v	1330832
100	1	100	STM1291		yeaA	putative do	1370000
100	1	100	STM1293		pncA	nicotinamic	1371115
100	1	100	STM4558		rimI	modificatio	4812651
100	1	100	STM3886		rbsR	transcriptio	4096544
100	1	100	STM1873			putative pe	1968296
100	1	100	STM4276			putative cyf	4515859
100	1	99	STM0727			putative cyf	793739
100	1	100	STM2161			putative inr	2257159
100	1	100	STM2329			putative cyf	2439893
100	1	100	STM1809			putative cyf	1909566
100	0	62.745	PSLT057			putative cyf	P48748
100	0	71.845	PSLT104		traD	conjugative	P84323
100	0	61.765	PSLT067			putative cyf	P54974
100	0	79	PSLT105	aPSLT106; trbH		conjugative	P86566
100	0	60.396	PSLT043			putative ph	P34155
100	0	62.5	PSLT097		traF	conjugative	P76687
51.923	0	52.941			stbC		R21652
59.615	0	63.393			orfD		R22202
58.416	0	52.885			repA		R31743
66.019	0	62.857			traF		R11287
60.784	0	60.784			traB		R4853
82	0	58.252					R44385
100	0	100	aSTM2560				
100	1	100	STM0701		speF	ornithine de	763379
100	0	51.429	aSTM2597				
100	0	100	aSTM0828				
100	0	59.091	aSTM0854				
100	0	100	aSTM0863				
63.964	1	100					
46.078	1	100					
50.495	1	100					
58.252	0	100					
92	0	100					

63.725	1	100						
62	1	100						
98	1	100		aSTM2132				
100	0	100		aSTM2479				
90	0	100						
98	1	100						
59.434	1	100						
100	1	100		aSTM1995				
61.818	1	100						
57.143	1	100						
75	1	100						
59.223	1	100						
79	1	100						
46.535	1	100						
66.019	1	100						
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60.377	1	100						
61.165	1	100						
52.475	1	100						
99	0	100	aSTM2711					
62.385	1	100						
63.208	1	100						
58.824	1	100						
60.396	1	100						
100	1	100	STM2712			Fels-2 prop	2858501	
59.615	1	100						
100	0	100	aSTM2721					
87	1	100						
61	1	100						
61.321	1	100						
64.423	1	100						
100	1	100	STM0180	panD	aspartate 1	211031		
100	1	100	STM0244	rscF	regulator in	285000		
100	0	100	STM1530		putative ou	1606415		
100	1	100	STM1718	btuR	cob(I)alami	1815127		
100	1	100	STM3855	pstA	ABC super	4061600		
100	1	100	STM3887	yieO	putative MF	4097508		
100	1	100	STM4580	nadR	three acitiv	4835809		
100	1	100	STM2026	cbiJ	synthesis c	2105211		
100	1	100	STM3448	rpsL	30S riboso	3602335		
100	1	100	STM2451	hemF	coproporpt	2561205		
100	1	100	STM3319	yhbG	putative AE	3483637		
100	1	100	STM3358		putative req	3525927		
100	0	100		STM0135	putative inr	158199		
100	1	100	STM0168	yacA	putative mu	196532		
100	1	100	STM0187	yackK	regulator fc	217030		
100	1	100	STM0223	sfsA	putative mε	260995		
100	1	100	STM1507	yaeL	putative tra	1584546		
100	1	100	STM1538	ydfJ	putative hy	1611996		
100	0	63.107	STM0656	ybeS	putative mc	718902		
100	0	100	aSTM0701					
100	0	66.337	STM4538		putative PT	4796627		

100	1	100	STM2138		putative cy	2232578
100	0	94	STM2730		Fels-2 pro	2872688
100	0	63.366	STM2757		putative cy	2894907
100	1	100	STM4578	serB	3-phospho	4833224
100	1	100	STM0260	dniR	transcriptio	299923
100	1	100	STM0310	ghmA	phosphohe	355281
100	0	62	STM0333		putative tra	376663
100	1	100	STM1072	yccR	putative D	1163100
100	1	100	STM1492		putative bir	1569671
100	0	61	STM0327		putative cy	370739
100	1	100	STM1059	ycbW	putative cy	1148137
100	1	100	STM1455	ydgP	putative Na	1529887
100	1	100	STM1137	ycdY	paral putati	1226849
100	1	100	STM1189	yceF	putative inf	1274491
100	0	100	STM1215	ycfS	putative pe	1297782
100	1	100	STM1459		putative ox	1534348
100	1	100	STM3424	rplR	50S riboso	3588505
100	1	100	STM3468	argD	acetylornit	3618456
100	1	100	STM3505	feoA	ferrous iror	3663890
100	0	56	aSTM3530			
100	0	62	STM3558		homology t	3727936
100	1	100	STM0992	mukF	mukF prote	1078202
100	1	100	STM4054		putative dic	4265227
100	1	100	STM4104		putative 5'	4316777
100	1	100	STM4128	yijD	putative inr	4346230
100	1	100	STM2905		putative ac	3047619
100	0	75	STM2940		putative cy	3080086
100	1	100	STM4117	yijO	paral putati	4332297
100	0	55.882	STM2865	avrA	putative inr	3009898
100	1	100	STM2920		putative tra	3062607
100	1	100	STM2392	vacJ	lipoprotein	2503763
100	0	66.019	STM0908		Fels-1 pro	977770
100	1	100	STM2493	perM	putative Pe	2606696
100	1	100	STM4185	aceK	isocitrate d	4405078
100	1	100	STM4100	metB	cystathionii	4309713
100	1	100	STM4120	argE	acetylornit	4338273
100	0	100	STM2925	nlpD	lipoprotein	3066549
100	1	100	STM2381	yfcM	putative cy	2492356
100	1	100	STM2445	ucpA	putative ox	2556599
100	1	100	STM2241	STM1051 sspH2	Leucine-ric	2340885
100	1	100	STM1100	hpaR	4-hydroxyp	1187506
100	1	100	STM1301		putative mu	1380453
100	1	100	STM4350	orn	oligoribonu	4594797
100	1	99	STM4386	sgaH	putative he	4627439
100	0	62.264	STM4431		puttive thia	4674770
100	1	100	STM2260	napD	periplasmic	2358901
100	0	63.725	STM4483	idnO	5-keto-D-gl	4727174
100	1	100	STM4500	yjhP	putative SA	4753941
100	1	100	STM4533	tsr	methyl-acc	4790082
100	0	100	STM1221	cobB	putative nic	1306775
100	1	100	STM1440	sodC	copper/zinc	1516050
100	0	100		STM1148; ymdC	putative ph	1233491

100	1	100	STM3442	hopD	leader pep	3596910
100	1	100	STM2469	eutP	putative etf	2578023
100	1	100	STM1223	potC	ABC super	1308749
100	1	100	STM1326	pfkB	6-phosphol	1405090
100	1	100	STM4370	yjfl	putative cy	4614456
100	1	100	STM1226	potA	ABC super	1312030
100	1	100	STM0021	bcfA	fimbrial sut	24469
100	1	100	STM1297	selD	selenophos	1375609
100	1	100	STM1335	rpml	50S riboso	1414772
100	1	100	STM1429	ydhB	putative tra	1506991
100	1	100	STM3560	livF	ABC super	3728654
100	1	100	STM0112	leuB	3-isopropyl	131076
100	1	100	STM0689	citA	citrate-prot	751371
100	1	100	STM4231	lamB	phage lamB	4452079
100	1	100	STM3883	rbsC	ABC super	4093597
100	1	100	STM0203	yadQ	putative Cl	238661
100	1	100	STM0452	cypD	peptidyl pro	508668
100	1	100	STM0403	yajB	putative cy	458885
100	1	100	STM4242		putative ou	4462562
100	1	100	STM2372		putative tra	2484593
100	1	100	STM1324		putative cy	1403736
100	0	56.311	STM1355	ydiP	putative tra	1435737
100	1	100	STM1472		putative pe	1547817
100	1	100	STM2079	wzzB	regulator o	2156832
100	1	100	STM3851	yieG	putative xa	4057734
100	1	100	STM0221	uppS	undecaprei	259355
100	1	100	STM2060	yeeA	putative inr	2134228
100	1	100	STM0125	mraY	phospho-N	146315
100	1	100	STM2362	purF	amidophos	2474336
100	1	100	STM3568	rpoH	sigma H (s	3735927
100	1	100	STM3282	pnp	polynucleo	3449247
100	1	100	STM2554	hcaT	putative MF	2692346
100	0	62	STM1018	STM2622	Gifsy-2 pro	1108723
100	1	100	STM0226	lpxD	UDP-3-O-(	265405
100	0	62.162	STM2594	aSTM1041	Gifsy-1 pro	2743185
100	1	100	STM3736		putative tra	3928434
100	1	100	STM3627	dppD	ABC super	3811340
100	1	100	STM3553	ugpQ	glyceropho	3722759
100	1	100	STM3742	spoT	bifunctiona	3934070
100	1	100	STM2345		putative tra	2457383
100	1	100	STM2557	cadC	transcriptio	2696631
100	1	99	STM2438	yfeK	putative pe	2550588
100	1	100	STM0830	glnH	ABC super	896264
100	1	100	STM0583	ybdK	putative cy	639678
100	1	100	STM4465		putative ori	4707266
100	1	100	STM2643	srmB	ATP-deper	2782903
100	1	100	STM3195	ribB	3,4 dihydro	3357851
100	1	100	STM4248	tyrB	tyrosine arr	4469303
100	1	100	STM2549	asrB	anaerobic s	2687490
100	1	100	STM2071	hisG	ATP phosp	2149615
100	1	100	STM0549	fimZ	fimbrial pro	610256
100	1	100	STM4026	yihX	paral putati	4236749

100	1	100 STM0880	potI	ABC super	951678
100	1	100 STM0709	phrB	deoxyribod	774778
100	1	100 STM4067		putative AC	4277918
100	1	100 STM0681	nagD	putative ph	740893
100	1	100 STM0728	nei	endonuclea	793925
100	1	100 STM4105	metF	5,10-methy	4318528
100	1	100 STM4266	soxR	redox-sens	4504380
100	0	100 aSTM4261			
100	1	100 STM2556	hmpA	dihydropter	2695259
100	1	100 STM0155		putative ou	182720
100	1	100 STM4164	thiC	5'-phospho	4380491
100	1	100 STM4023	yihU	putative ox	4233764
100	0	95 STM4069		putative pe	4279841
100	1	100 STM2878	sptP	protein tyrc	3022071
100	1	100 STM1192	plsX	putative fat	1276153
100	1	100 STM1702	rnb	RNase II, n	1794346
100	1	100 STM2662	rluD	pseudourid	2805547
100	1	100 STM0049	lytB	regulates tl	57796
100	1	100 STM1024		Gifsy-2 pro	1112864
100	1	100 STM3775		putative gly	3975943
100	1	100 STM1410		putative cyf	1491044
100	1	100 STM1729	yciF	putative cyf	1825830
100	0	92.079	STM2725	pseudogen	2868690
100	1	100 STM0420	pgpA	phosphatid	472980
100	1	100 STM1659	ogt	O-6-alkylg	1753663
100	1	100 STM1760		putative TF	1853726
100	1	100 STM1825	yeaB	putative NT	1922537
100	1	100 STM1767	narL	response r	1866071
100	1	100 STM2995	ptr	protease III	3149646
100	1	100 STM2930	ispD	4-phospho	3070745
100	1	100 STM2919	ygbI	putative re	3061824
100	1	100 STM1114	scsB	Suppressic	1200565
100	1	100 STM0088	apaH	diadenosin	101424
100	1	100 STM3930	yifK	putative AF	4139420
100	1	100 STM3913	gppA	guanosine	4121827
100	1	100 STM4151	rplJ	50S riboso	4364661
100	1	100 STM1815	minD	cell divisio	1912818
100	1	100 STM1841		putative ou	1937220
100	1	100 STM1920	cheW	purine-binc	2016654
100	1	100 STM4190	pepE	(alpha)-asp	4413996
100	1	100 STM0432	phnX	2-aminoeth	485318
100	1	100 STM4043	yiiL	putative cyf	4253496
100	0	100 STM3964	aSTM3963 metR	regulator fc	4168560
100	0	99 STM0610		putative co	673151
100	1	100 STM1733		putative fer	1828869
100	1	100 STM1577	narZ	nitrate red	1660688
100	1	100 STM1609	tehA	TDT family	1698945
100	0	97 STM1631	sseJ	Salmonella	1721293
100	1	100 STM1670		putative se	1763257
100	1	100 STM0476	acrA	acridine eff	532419
100	1	100 STM1543		putative tra	1618320
100	1	100 STM1527		putative inr	1604153

100	1	100	STM0979	ycaL	putative Zn	1064060
100	1	100	STM0615	ybdR	putative de	678023
100	1	100	STM1740	yciU	putative cy	1834362
100	0	96	STM1550		putative cy	1626565
100	0	63.889	STM1571	yddG	putative pe	1653824
100	1	100	STM1604	ydcP	putative co	1693636
100	0	100		STM1638	putative SA	1729115
100	0	56.19	STM1896		putative cy	1991104
100	1	100	STM1878	exoX	DNA exon	1971072
100	1	100	STM2973	fucO	L-1,2-prop	3124504
100	1	100	STM3021		putative inr	3181899
100	1	100	STM3062	serA	D-3-phospl	3223279
100	1	100	STM3093	endA	DNA-speci	3255404
100	1	100	STM0445	yajG	putative lip	500119
100	1	100	STM3581	yhhS	putative MF	3748223
100	1	100	STM3618	yhjN	putative ce	3798531
100	1	100	STM3676	sgbU	putative 3-l	3863111
100	1	100	STM3704	pmgI	phosphogly	3897564
100	1	100	STM2961	ygcY	putative d-ç	3111900
100	1	100	STM2991	amiC	N-acetylm	3141356
100	1	100	STM3040	lysS	lysine tRNA	3199219
100	1	100	STM3588	yhiN	putative pe	3757069
100	1	100	STM2981	ygdD	putative srr	3133858
100	0	98	STM4312		putative ph	4560083
100	0	60.784	STM3745		putative cy	3938965
100	1	100	STM3177	ygiX	putative tra	3340798
100	1	100	STM3016	araE	MFS family	3175802
100	1	100	STM2214	spr	putative lip	2313658
100	1	100	STM2096	rfbD	TDP-rham	2176596
100	1	100	STM2158	yehT	putative reç	2253744
100	1	100	STM0940	ybjX	homologue	1017515
100	1	100	STM3662	xylR	xylose ope	3848152
100	1	99	STM4317		putative he	4562560
100	1	100	STM3706	yigQ	putative pe	3900405
100	1	100	STM3596	yhiR	putative cy	3767646
100	1	100	STM3503	greB	transcriptio	3660551
100	1	100	STM3295	folP	7,8-dihydro	3463737
100	1	100	STM4569	deoB	phosphope	4823708
100	0	72	STM0351		putative ca	393893
100	1	100	STM3284	truB	tRNA pseu	3452044
100	1	100	STM3185	yqiE	putative reç	3347734
100	1	100	STM3107	yggN	putative pe	3266716
100	1	100	STM2817	luxS	quorum se	2966270
100	1	100	STM2181	yohJ	putative eff	2277922
100	1	100	STM2220	yejG	putative cy	2321748
100	1	100	STM2222	rsuA	16S rRNA	2323701
100	1	100	STM2154	mrp	putative AT	2248465
100	1	100	STM2407	ypeC	putative pe	2523332
100	1	100	STM3425	rplF	50S riboso	3588868
100	1	100	STM3472	ppiA	peptidyl-pr	3621222
100	1	100	STM4363	hflK	with HflC, ç	4606451
100	1	100	STM3762	cigR	putative inr	3960748

100	1	100	STM3157	yghA	putative ox	3318580
100	1	100	STM3060	ygfE	putative cy	3221727
100	1	100	STM0782	modB	ABC super	846448
100	1	100	STM0822	ybiB	putative tra	889332
100	1	100	STM2679	yfjD	putative m	2819585
100	1	100	STM2081	gnd	gluconate-t	2159361
100	1	100	STM0773	galM	galactose-	837339
100	1	100	STM0817	ybhF	putative AE	881958
100	1	100	STM0862	yliJ	putative glu	934627
100	1	100	STM3314	yrbG	putative C	3479971
100	1	100	STM3222	ygjQ	putative int	3390225
100	0	100	STM4313		putative cy	4560360
100	1	100	STM0366	yahO	putative pe	415676
100	1	99	STM2576	yfhL	putative fer	2721690
100	0	61	STM2635		Gifsy-1 pro	2775325
100	1	100	STM4459	pyrI	aspartate c	4703496
100	1	100	STM0586	fes	enterocheli	644002
100	1	100	STM4121	argC	N-acetyl-g	4339513
100	1	100	STM4365	yjeT	putative inr	4608796
100	1	100	STM1388	orf70	putative cy	1473820
100	0	100	STM3384	yhdG	putative TII	3555271
100	0	61.765	STM4198		putative cy	4419382
100	1	100	STM4250	yjbQ	putative cy	4471525
100	1	100	STM2736		Fels-2 prop	2875278
100	1	100	STM2787		tricarboxyli	2935579
100	1	100	STM3995	yihD	putative cy	4202850
100	1	99	STM2904		putative AE	3047332
100	0	70.297	STM4116	frwD	PTS system	4331957
100	1	100	STM2932	ygbE	putative inr	3071976
100	1	100	STM1461	ydgT	putative cy	1535535
100	1	100	STM1503	ynfB	putative pe	1581306
100	1	99	STM2045	pduJ	Propanedic	2123044
100	1	100	STM4394	rplI	50S riboso	4631504
100	1	100	STM3444	bfd	regulatory	3597923
100	1	100	STM0307		homology t	350943
100	1	100	STM1813	ycgL	putative cy	1911668
100	0	100	STM1782	yehH	putative inr	1880563
100	1	100	STM1857		putative ac	1955007
100	1	100	STM1881	yebF	putative pe	1974822
100	1	100	STM1839		putative pe	1936561
100	1	100	STM2209		putative inr	2309636
100	0	83	aPSLT066			
100	0	73	aPSLT023	aPSLT024		
100	0	60.194	PSLT079	traE	conjugative	P63346
100	0	63.889	PSLT038	spvC	Salmonella	P27178
100	0	62.5	aPSLT059	aPSLT058		
100	0	77	aPSLT105 PSLT106		homologue	P86575
58	0	58		traK		R19577
63	0	61.321		traM		R4194
64.356	0	72		tetA		R42760
56.19	0	56.863		orf80		R26644
59.615	0	66.337		traG		R12486

61.386	0	61.386	kikA	R2076
100	0	62.5 aSTM0655		
100	0	61.165 STM2590		Gifsy-1 pro 2740856
100	0	100 aSTM0741		
100	0	61.468 aSTM2611		
100	0	53.922 aSTM2631	STM1010	Gifsy-2 pro 1104268
100	0	100 aSTM2670		
60.577	1	100		
61.765	1	100		
59.615	1	100		
90	1	100		
76	1	100		
98	1	100		
98	0	100	aSTM3911	
59.259	1	100		
89	1	100		
57.282	1	100		
60.748	1	100		
59.406	1	100		
75	1	100		
90	1	100		
78	0	100		
63	1	100		
65.347	1	100		
99	1	100 aSTM0437		
60.952	1	100		
97	1	100	aSTM2778	
64.545	1	100		
73	1	100		
62	1	100		
41.748	1	100		
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58.252	1	100		
62.376	1	100		
64.151	1	100		
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65	1	100		
56	1	100		
100	1	100	aSTM3552	
58.824	1	100		
70.874	1	100		
60.185	1	100		
64.078	1	100		
100	1	100 STM0190	mrcB	transpeptid 220923
100	1	100 STM0680	asnB	asparagine 738939
100	1	100 STM0702	kdpE	response r 766339
100	1	100 STM3832		putative pe 4035356
100	1	100 STM2028	cbiG	synthesis c 2106724
100	1	100 STM3789	uhpB	sensory his 3989052
100	0	63.366 STM3845		putative inr 4051378
100	1	100 STM3877	asnA	asparagine 4085308
100	1	100 STM0041		putative gly 48372

100	1	100	STM0116	ilvI	acetolactat	135898
100	1	100	STM0149		putative pe	171810
100	0	76	STM0175	stiC	putativie fir	205079
100	1	100	STM3328	arcB	sensory his	3490492
100	1	100	STM3368	tldD	suppresses	3534350
100	1	100	STM0629	cspE	RNA chape	692915
100	0	65.686	STM0654	ybeQ	putative TF	717078
100	1	100	STM0686	glnS	glutamine t	747421
100	1	100	STM0712	ybgJ	putative ca	778807
100	1	100	STM0242	proS	proline tRN	282467
100	1	100	STM1541		putative re	1616470
100	1	100	STM2113	wcaC	putative gly	2196266
100	1	100	STM4591	sthE	putative m	4847811
100	0	61.111	STM0278		putative pe	318153
100	1	100	STM0321	proB	gamma-glu	366315
100	0	93	STM2707		Fels-2 pro	2855566
100	0	97	STM0283		putative inr	322420
100	0	67	STM2759		putative di	2897643
100	1	100	STM2781	virK	virulence g	2928373
100	1	100	STM1087	pipA	Pathogenic	1175548
100	1	100	STM1111	yccD	putative cy	1198694
100	0	95	STM2769	aSTM0325; aSTM032	putative tra	2910977
100	1	100	STM2798	ygaP	putative rh	2946350
100	1	100	STM1102	hpaE	4-hydroxyp	1189507
100	1	100	STM3453	fkpA	FKBP-type	3604871
100	1	99	STM3489	yrfA	putative inr	3644366
100	1	100	STM1236		putative pe	1323222
100	1	100	STM1319	cedA	cell divisio	1399731
100	1	100	STM1147		putative AC	1233013
100	1	100	STM1197	fabF	3-oxoacyl-[	1280435
100	1	100	STM1217	ycfU	ABC transp	1302568
100	1	100	STM1267		putative cy	1349294
100	1	100	STM3578	yhhP	small ubiq	3746509
100	0	54.808	STM1030		Gifsy-2 pro	1116367
100	0	63.81	STM4195		putative Na	4416715
100	1	100	STM4221	pgi	glucoseph	4440162
100	1	100	STM4264	yjcC	putative di	4502381
100	1	100	STM4297	melR	regulator o	4541197
100	1	100	STM2376		putative pe	2487283
100	1	100	STM4249	aphA	non-specifi	4470683
100	1	100	STM4284	yjcO	putative TF	4524484
100	1	100	STM4326	aspA	aspartate a	4570945
100	1	100	STM0890	artI	ABC super	960294
100	0	54.369	STM0916		Fels-1 pro	987126
100	1	100	STM0937	hcp	hybrid clus	1012963
100	1	100	STM4066		putative su	4276949
100	0	79	STM4217		putative so	4436517
100	0	58.333	STM2902		putative cy	3045697
100	1	100	STM4332	yjeJ	putative inr	4577402
100	1	100	STM0878	potG	ABC super	949585
100	0	63.366	aSTM0911	aSTM0912		
100	1	100	STM0202	hemL	glutamate-	237211

100	1	100	STM0369	prpC	putative cit	418987
100	1	100	STM1347	aroH	3-deoxy-D-	1425398
100	1	100	STM1935	ftn	cytoplasmic	2029391
100	1	100	STM1993	yedJ	putative hy	2075833
100	1	100	STM2271	rscC	sensory his	2370747
100	0	65.686	STM4433		putative thi	4676890
100	1	100	STM2310	menF	isochorism	2417382
100	1	100	STM2336		putative cy	2447144
100	1	100	STM2057	pduW	Propanedic	2131440
100	1	100	STM2924	rpoS	sigma S (si	3065494
100	1	100	STM0206	btuF	putative co	241269
100	0	62.745	STM2636		Gifsy-1 pro	2775587
100	1	100	STM1340	btuC	ABC super	1419571
100	1	100	STM1076	mgsA	methylglyo	1168524
100	1	100	STM2867	hilC	bacterial re	3012107
100	1	100	STM4094	cytR	transcriptio	4302181
100	1	100	STM1945	pgsA	phosphatid	2035813
100	1	100	STM2898	invG	invasion pr	3041597
100	1	100	STM1431	sodB	superoxide	1509413
100	1	100	STM1144	csgA	curlin majo	1231630
100	1	100	STM3726	mutM	formamido	3921131
100	1	100	STM3716	rfaY	lipopolysac	3911766
100	1	100	STM1478	ydgH	putative pe	1554224
100	1	100	STM1468	fumA	fumarase /	1542187
100	1	100	STM1498		putative dir	1574418
100	1	100	STM3781		putative su	3980753
100	1	100	STM0308	yafV	putative an	351721
100	1	100	STM0363		putative tra	411513
100	1	100	STM2013	yeeO	putative M/	2094377
100	1	100	STM2067	sbcB	exonucleas	2144261
100	1	100	STM0133	ftsZ	tubulin-like	155683
100	1	100	STM2323	nuoG	NADH deh	2431894
100	1	100	STM0317	gpt	guanine-hy	362679
100	1	100	STM1980	fliQ	flagellar bic	2066073
100	1	100	STM1487	ynfL	putative tra	1564074
100	1	100	STM3447	rpsG	30S riboso	3601769
100	1	100	STM3847	yidY	putative MF	4054077
100	1	100	STM0387	yail	putative cy	440205
100	1	100	STM0441	cyoC	cytochrome	494585
100	1	100	STM4269	yjcE	putative CF	4507645
100	1	100	STM2312	elaA	putative ac	2419138
100	1	100	STM3258		Sugar spec	3428115
100	0	99	STM4156		putative cy	4374607
100	1	100	STM1381	orf245	putative cy	1464057
100	1	100	STM2512	xseA	exonucleas	2626079
100	1	100	STM0500	ybbJ	putative M	560973
100	1	100	STM4413		putative im	4653168
100	1	100	STM3190	ygiE	putative div	3353086
100	1	100	STM3220	ygiO	paral putati	3388354
100	1	100	STM3265	yraN	putative en	3435327
100	0	61.165	STM3291		putative cy	3460352
100	1	100	STM1773	ycaA	putative tra	1871299

100	1	100 STM2300		putative cy	2408072	
100	1	100 STM2447		putative ou	2558622	
100	1	100 STM4471	miaE	hydroxylas	4713345	
100	1	100 STM2794	ygaE	putative tra	2944452	
100	1	100 STM4512	iadA	isoaspartyl	4766093	
100	1	100 STM4595		putative fir	4852849	
100	0	100 STM3656	glyQ	glycine tRN	3841849	
100	1	100 STM1753	hnr	Response	1848939	
100	1	100 STM1693	sapB	ABC super	1785324	
100	1	100 STM4048	rhaS	positive re	4259065	
100	1	100 STM3998	yihG	putative en	4204835	
100	1	100 STM0813	ybhP	putative cy	878350	
100	1	100 STM0797	bioD	dethiobiotir	863096	
100	1	100 STM0089	apaG	putative cy	102283	
100	1	100 STM4040	yiiG	putative cy	4250363	
100	1	100 STM0641	ybeA	putative cy	703955	
100	1	100 STM0261	gloB	hydroxyacy	301362	
100	1	100 STM0978	aroA	3-enolpyru	1062634	
100	1	100 STM2355	argT	ABC super	2465511	
100	1	100 STM2685	smpA	small mem	2825074	
100	1	100 STM0059	citD2	putative cit	69710	
100	1	99 STM0362		putative cy	411193	
100	1	100 STM1854		putative inr	1951563	
100	1	100 STM3594	prlC	oligopeptid	3763940	
100	0	100 aSTM0710				
100	1	100 STM4303	dcuR	response r	4549177	
100	0	100	STM1936	yecH	putative cy	2029934
100	1	100 STM1684	ycjF	putative inr	1777869	
100	1	100 STM2637	rseC	regulator o	2777314	
100	1	100 STM1139	csgG	putative tra	1228025	
100	1	100 STM2958	barA	sensory his	3106519	
100	0	95 aSTM2769 STM0324	aSTM0325	putative inr	369158	
100	0	95 STM4161		putative inv	4378924	
100	1	99 STM3460		pseudogen	3611808	
100	1	100 STM3297	ftsJ	23S rRNA	3466728	
100	1	100 STM2052	pduQ	Propanedic	2127627	
100	1	100 STM4279	nrfC	putative nit	4518215	
100	1	99 STM1975	fliL	flagellar bic	2063063	
100	1	100 STM1512	dcp	dipeptidyl c	1589687	
100	1	100 STM4130	btuB	outer mem	4348110	
100	1	100 STM0609	ahpF	alkyl hydro	671254	
100	1	100 STM1744	oppC	ABC super	1837643	
100	1	100 STM4072	ydeV	putative su	4280606	
100	1	100 STM3967	dlhH	putative die	4173793	
100	1	100 STM3951	uvrD	DNA-deper	4155541	
100	1	100 STM0085	yabF	putative N/	98255	
100	1	100 STM3059	ygfB	putative cy	3220982	
100	1	100 STM1971	fliH	flagellar bic	2059202	
100	1	100 STM2430	cysK	subunit of c	2543231	
100	1	100 STM2432	ptsI	General PT	2544892	
100	1	100 STM1717	yciK	putative ox	1814369	
100	1	100 STM2951	ygcF	putative Or	3096557	

100	1	100	STM2949		ptpS	putative sy	3092934
100	1	100	STM4013			putative m	4222099
100	1	100	STM1912		flhE	flagellar pr	2007820
100	1	100	STM1656			putative Zn	1750148
100	0	100	STM1554			putative co	1630405
100	0	100	STM1795			putative ho	1893531
100	1	100	STM1830		manX	Sugar Spe	1928533
100	1	100	STM1853		prpA	serine/thre	1950689
100	1	100	STM1900		ntpA	dATP pyro	1994556
100	1	100	STM0888		artM	ABC super	958903
100	1	100	STM0520			putative pe	581082
100	1	100	STM0998		aspC	aspartate a	1088406
100	1	100	STM0589		fepE	ferric enter	649596
100	1	100	STM0338		stbC	putative fir	381035
100	1	100	STM1557			putative ar	1634745
100	1	100	STM1746		oppA	ABC super	1839608
100	1	100	STM1786			hydrogena	1884828
100	1	100	STM1827			putative di	1924779
100	1	100	STM1651		nifJ	putative py	1742125
100	1	100	STM1678			putative 2'-	1770971
100	1	100	STM0497			putative pe	556964
100	1	100	STM2984		csdA	putative se	3135956
100	0	83	aSTM2703	aSTM2706			
100	1	100	STM0270			putative cy	309113
100	1	100	STM0408		secF	preprotein	464189
100	1	100	STM3148		hybB	putative cy	3310487
100	1	100	STM2830		ygaD	putative cy	2976000
100	1	100	STM3633			putative ba	3819242
100	0	62.136	STM4540			putative glu	4798534
100	1	100	STM3737			putative Zn	3929410
100	0	65.686	STM3170			putative inr	3332622
100	1	100	STM3009		ygeD	putative eff	3166677
100	1	100	STM3076		tkkA	transketola	3236393
100	1	100	STM2845		hycl	protease in	2991705
100	1	100	STM3647		yiaF	putative ou	3834711
100	1	100	STM3680		aldB	aldehyde d	3867973
100	1	100	STM3768			putative se	3968544
100	1	100	STM2979		fucR	positive re	3131996
100	0	100	STM3029		stdA	putative fir	3191120
100	1	100	STM2200		lysP	APC family	2298888
100	0	56.731	STM2235			putative ph	2335364
100	1	100	STM2208			putative inr	2308969
100	1	100	STM3731		dut	deoxyuridir	3924722
100	1	100	STM3435		rplV	50S riboso	3593161
100	1	100	STM4364		hflC	with HflK, p	4607713
100	1	100	STM3414		rplQ	50S riboso	3582877
100	1	100	STM0941		ybjY	paral putati	1018611
100	1	100	STM4366		purA	adenylosuc	4609096
100	1	100	STM3247		garK	glycerate k	3415210
100	1	100	STM3149		hybA	function un	3311655
100	1	100	STM2833		srIE	PTS family	2978868
100	1	100	STM4446			putative se	4687586

100	1	100 STM4579		radA	putative AT	4834276
100	0	80 STM0353			putative ca	398560
100	1	100 STM2844			putative pe	2990869
100	1	100 STM2207		setB	proton efflu	2307723
100	1	100 STM2090		rfbH	LPS side c	2170926
100	1	100 STM2092		rfbF	LPS side c	2173350
100	1	100 STM2152		stcA	paral putati	2247097
100	1	100 STM1765		narK	MFS super	1862544
100	1	100 STM3668		yiaK	putative m	3855639
100	1	100 STM3575		yhhN	putative inr	3741737
100	1	100 STM3336		nanK	putative M	3504905
100	1	100 STM3226		yqjA	putative De	3395194
100	1	100 STM1402		sseE	Secretion s	1487057
100	1	100 STM1116		scsD	Suppressic	1203061
100	1	100 STM0791		hutH	histidine ar	856655
100	1	100 STM0837		ybiS	putative pe	903897
100	1	100 STM3057		ubiH	2-octapren	3218465
100	1	100 STM1103		hpaD	4-hydroxyp	1190975
100	1	100 STM0787		hutI	Imidazolon	851841
100	1	100 STM0827		ybiO	paral putati	892401
100	1	100 STM1601		ugtL	putative m	1691246
100	1	100 STM3256			putative ph	3425825
100	1	100 STM3187		ygiB	putative inr	3350255
100	1	100 STM2470		eutS	putative ca	2578515
100	1	100 STM2304		pmrD	polymyxin I	2411318
100	1	100 STM3862		glmU	N-acetyl gli	4071053
100	1	100 STM0424		xseB	exonucleas	477416
100	1	100 STM2805		nrdH	glutaredoxi	2951857
100	1	100 STM0454		ybaW	putative es	511166
100	0	94 STM3353	STM0766	oadG-1	putative so	3521837
100	1	100 STM3429		rplX	50S riboso	3590714
100	1	100 STM3431		rpsQ	30S riboso	3591574
100	1	100 STM4402		ytfH	putative tra	4639116
100	1	100 STM2153		yehE	putative ou	2247906
100	1	97 STM1930			pseudogen	2025662
100	1	99 STM1065		ymbA	putative ou	1156822
100	1	100 STM2653		yfiM	putative ou	2794055
100	1	100 STM1443		ydhI	putative inr	1519449
100	0	100 STM2664			pseudogen	2807432
100	1	100 STM4096		rpmE	50S riboso	4305763
100	1	99 STM4302			putative cy	4548594
100	1	100 STM0449		clpX	specificity c	504085
100	1	100 STM1728		yciG	putative cy	1825558
100	1	100 STM1272		yoaG	putative cy	1351771
100	0	98 STM2704			Fels-2 prop	2852997
100	1	100 STM0237		rof	modulator c	280047
100	1	100 STM0017			putative pro	17043
100	0	100	STM2251;	ccmD	heme expo	2351391
100	1	100 STM0359			putative cy	408548
100	1	98 STM1093			putative cy	1180419
100	1	100 STM3566			putative cy	3734285
100	1	100 STM1851			putative cy	1950129

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100	0	58 PSLT087		conjugative P67730	
100	0	61.765 PSLT036		putative tra P25877	
100	0	61.111 PSLT088	traC	conjugative P68593	
100	0	63.725 PSLT039	spvB	Salmonella P28191	
100	0	60.194 PSLT081	traB	conjugative P64639	
100	0	62.136 PSLT018	pefA	plasmid-en P13569	
62.037	0	62.037	traJ		R18046
62.162	0	61.321	traO		R10403
62	0	82	rec		R50134
61.905	0	61.905			R43854
62.857	0	58.416	ardR		R26893
61.538	0	62	traC		R7471
100	0	62 aSTM2587			
100	1	100 STM0710	ybgH	putative PC	776238
100	0	100 aSTM0760			
100	1	100 STM0848	yliA	putative AT	918101
100	0	60.396 aSTM0855			
100	0	100 aSTM0891			
70	1	100			
99	1	100	aSTM3945		
64.486	1	100			
100	1	100	aSTM2514		
100	1	100	aSTM2883		
71	1	100			
62	1	100			
57.843	1	100			
100	0	100 aSTM2516			
86	1	100			
50.505	1	100			
85	1	100			
63.208	1	100			
60.396	1	100			
94	0	100			
61.905	1	100			
65.347	1	100			
61	1	100			
63.107	1	100			
100	1	100	aSTM3859		
61.165	1	100			
63.889	1	100			
66	1	100			
64.762	1	100			
63.725	1	100			
54.369	1	100			
56.604	1	100			
68	1	100			
99	1	100	aSTM2695		
67.961	1	100			
98	1	100	aSTM2704		
62.376	1	100			
61.538	1	100			

60.952	1	100			
54.286	1	100			
86	1	100			
100	1	100	STM1071	sulA	suppressor 1162374
100	1	100	STM4227	malG	ABC super 4446748
100	1	100	STM0142	hofC	putative co 165127
100	1	100	STM0173	yadH	putative AE 203104
100	1	100	STM0192	fhuC	ABC super 225976
100	1	100	STM0246	yaeE	putative AE 286377
100	1	100	STM3375	yhdA	putative diç 3544867
100	1	100	STM0652		putative siç 714545
100	1	100	STM0684	nagB	glucosamir 744131
100	0	70.093	STM3639	lpfB	long polar f 3826666
100	1	100	STM3839	rpmH	50S riboso 4045685
100	1	100	STM3858		putative ph 4064792
100	0	44	STM3637	lpfD	long polar f 3823018
100	1	100	STM3850	yieF	putative ox 4057105
100	1	100	STM3884	rbsB	ABC super 4094587
100	1	100	STM3713	rfaL	O-antigen I 3908290
100	1	100	STM0225	hlpA	histone-like 264916
100	1	100	STM0121	ftsL	cell divisior 141345
100	0	87	STM2765		putative tra 2907066
100	1	100	STM2790	ygaF	paral putati 2938844
100	1	100	STM1484		putative pro 1560968
100	1	100	STM3439	rplD	50S riboso 3594941
100	1	100	STM3480	yhfL	putative ou 3635932
100	1	100	STM3508		putative cyf 3666938
100	0	98	STM3411		putative cyf 3581638
100	0	100	STM3462	yheT	putative hy 3612635
100	1	100	STM3498	yrfl	heat shock 3653483
100	1	100	STM1254		putative ou 1338127
100	1	100	STM1287		arylsulfataç 1365225
100	1	100	STM2118	wza	putative po 2201511
100	0	58.416	STM3528		putative pe 3690841
100	1	100	STM3554	ugpC	ABC super 3723496
100	1	100	STM2120	asmA	suppressor 2204991
100	1	99	STM2711		Fels-2 proç 2858062
100	1	100	STM0286		putative cyf 327730
100	1	100	STM0313	dinP	DNA polym 357800
100	1	100	STM2112	wcaD	putative co 2195077
100	0	100	STM2137		putative cyf 2231496
100	0	61.765	STM2740		Fels-2 proç 2878169
100	0	64.078	STM2756		putative su 2894344
100	0	63.107	STM1048		Gifsy-2 pro 1132792
100	1	100	STM1082		bacterial re 1172746
100	1	100	STM0869		paral putati 941972
100	0	61.818	STM0897		Fels-1 proç 966309
100	0	60.194	STM0914		Fels-1 proç 986133
100	1	100	STM0932		putative nu 1006514
100	1	100	STM2543	nifS	putative an 2681537
100	0	61.386	STM2585		Gifsy-1 pro 2731356
100	1	100	STM2511	guaB	IMP dehydi 2624452

100	1	100	STM0986	ycaQ	putative cy	1073201
100	0	60	STM1033		Gfsy-2 pro	1120666
100	0	58	STM4215		putative cy	4435575
100	1	100	STM2851	hycC	hydrogena	2996547
100	1	100	STM2922		putative 3-p	3063775
100	1	100	STM2474	tktB	transketola	2583500
100	1	100	STM0945	clpA	ATP-bindin	1022698
100	1	100	STM0989		mukF prote	1075621
100	0	59.048	STM1036		Gfsy-2 pro	1123434
100	0	65.347	STM4201		putative ph	4422192
100	1	100	STM4243	yjbN	putative TII	4463960
100	1	100	STM4442		putative cy	4684653
100	1	100	STM2318	nuoL	NADH deh	2427661
100	1	99	STM2344		putative ph	2456687
100	1	100	STM1117	agp	glucose-1-p	1203700
100	1	100	STM1259		putative AT	1343318
100	1	100	STM1112	cbpA	curved DN	1198999
100	1	100	STM1067	fabA	beta-hydro	1157908
100	1	100	STM2516	sinI	putative ou	2647592
100	1	99	STM0026	bcfF	fimbrial sut	29994
100	0	100	STM1987		putative inr	2069743
100	1	100	STM2066	sopA	Secreted e	2141570
100	0	100	STM2275		putative re	2379349
100	1	100	STM1989	yedI	putative inr	2071882
100	1	100	STM2069	yeeY	putative tra	2147471
100	1	100	STM2280		putative pe	2385184
100	1	100	STM2314		putative ch	2420643
100	1	100	STM2358		putative cy	2468648
100	0	100	STM1187	rluC	23S rRNA	1272131
100	1	100	STM1174	flgB	flagellar bic	1258247
100	1	100	STM3446	fusA	protein cha	3599558
100	1	100	STM0340	stbA	putative fir	384403
100	1	100	STM0162		putative inr	191150
100	1	100	STM0442	cyoB	cytochrome	495189
100	1	100	STM4272		putative inr	4510780
100	1	100	STM4182	metA	homoserine	4400841
100	1	100	STM0139	yacF	putative cy	162464
100	1	100	STM2301	pqaB	putative me	2408968
100	0	62.963	STM1361	ydiM	putative MF	1442952
100	1	100	STM1436	nemA	N-ethylmal	1512926
100	1	100	STM0399	brnQ	LIVCS fam	453258
100	0	100		STM1411; ssaK	Secretion s	1491589
100	1	100	STM4228	malF	ABC super	4447653
100	1	100	STM0322	proA	gamma-glu	367430
100	1	100	STM0166	speE	spermidine	195016
100	1	100	STM2001	yeel	putative inr	2082351
100	1	100	STM2403	glk	glucokinas	2517964
100	1	100	STM2307	menB	dihydroxyn	2413999
100	1	100	STM2295	yfaO	putative NT	2402597
100	1	100	STM2546	suhB	inositol mo	2684435
100	1	100	STM4472	ytgA	putative inr	4714391
100	1	100	STM0535	lpxH	UDP-2,3-di	597743

100	0	63.725	STM2592		Gifsy-1 pro	2742145
100	0	59.406	STM2602		Gifsy-1 pro	2750476
100	1	100	STM4566	yjlI	putative cy	4819621
100	1	100	STM3700	gpsA	glycerol-3-p	3895017
100	1	100	STM3610	yhjG	putative inr	3784414
100	1	100	STM3514	malP	maltodextrin	3673913
100	1	100	STM2406		putative ox	2522220
100	1	100	STM2483	dapE	N-succinyl-	2597694
100	1	100	STM0959	lrp	regulator fc	1036742
100	1	100	STM0569	ybdG	putative tra	625635
100	1	100	STM4437	yjgA	putative cy	4681180
100	0	100		STM4544 dnaT	primosome	4803532
100	1	100	STM3734	rph	RNase PH	3926679
100	1	100	STM3212	mug	DNA glycos	3378372
100	1	100	STM3255		putative ph	3424411
100	1	100	STM3735	yicC	putative str	3927521
100	0	97	STM4524	hsdS	specificity c	4777606
100	1	100	STM0117	ilvH	acetolactat	137562
100	1	100	STM2888	spaR	surface pre	3032590
100	1	100	STM0736	sucA	2-oxoglutar	801745
100	1	100	STM4299	melB	GPH family	4543837
100	1	100	STM2675	rimM	16S rRNA	2816073
100	1	100	STM2550	asrC	anaerobic s	2688319
100	1	100	STM2072	hisD	histidinal d	2150617
100	1	100	STM0320	phoE	outer mem	364980
100	1	100	STM0494	ushA	UDP-sugar	553634
100	1	100	STM1058	pyrD	dihydro-orc	1146961
100	1	99	STM4319	phoN	non-specifi	4563589
100	1	100	STM4063	sbp	ABC super	4273496
100	1	100	STM0668	ybeY	putative mε	732766
100	1	100	STM0723		putative AE	788110
100	1	100	STM2039	pudB	Propanedic	2117238
100	1	100	STM4309		putative pe	4556468
100	1	100	STM1951	yecC	putative AE	2040612
100	1	100	STM1677		putative tra	1769947
100	0	100	aSTM4261			
100	1	100	STM0058	citC2	putative cit	68637
100	0	94.34	STM1268		putative cy	1349621
100	1	100	STM4176	purH	bifunctiona	4392462
100	1	100	STM2536	pepB	putative an	2676118
100	1	100	STM2042	pduE	Propanedic	2120322
100	1	100	STM4301	dcuB	Dcu family,	4547107
100	1	100	STM1931	araH	putative int	2026132
100	1	100	STM1195	fabG	3-oxoacyl-[	1279223
100	1	100	STM1664		putative tra	1757889
100	1	100	STM2667	pheA	bifunctional:	2808257
100	1	100	STM0005	yaaA	putative cy	5114
100	1	100	STM3794		putative re	3994836
100	1	100	STM1474		pseudogen	1550866
100	1	100	STM4037	fdoG	formate de	4244758
100	1	100	STM3969	yigN	putative inr	4175765
100	1	100	STM3936	hemX	uroporphyr	4143121

100	1	100	STM3068		fba	fructose-bi	3229511
100	1	100	STM1976		fliM	flagellar bic	2063535
100	0	100		STM2429	cysZ	required fo	2542306
100	1	100	STM1789			putative hy	1888483
100	1	100	STM3287		nusA	transcriptio	3456313
100	1	100	STM2970		sdaC	putative H/	3120771
100	1	100	STM4052			putative C4	4263393
100	1	100	STM3975		tatC	part of sec	4181313
100	1	100	STM3958		recQ	ATP-deper	4162558
100	1	100	STM3956		yigl	putative pro	4160991
100	1	100	STM0489		hemH	ferrochelate	546914
100	0	100	STM4146	aSTM3445	tufB	protein cha	4360603
100	1	100	STM1970		fliG	flagellar bic	2058214
100	1	100	STM2947		cysI	sulfite redu	3088999
100	1	100	STM2999		ppdB	prepilin pe	3156808
100	1	100	STM1686		pspE	phage sho	1780473
100	1	100	STM0501		ybbK	putative inr	561422
100	1	100	STM0526		ylbA	putative gly	587927
100	0	64.356	STM0575			putative inr	635173
100	1	100	STM1636			putative AE	1726059
100	1	100	STM1711		ribA	GTP cyclot	1804109
100	1	100	STM1761		narI	nitrate red	1855497
100	1	100	STM1801		ycgO	putative CF	1899809
100	1	100	STM1834		yebN	putative Ye	1932090
100	1	99	STM1860			putative tra	1956854
100	1	100	STM1907		cutC	copper hon	2001025
100	1	100	STM0491		gsk	inosine-gua	548997
100	1	100	STM1533			putative hy	1608903
100	1	100	STM1523		yneJ	putative tra	1600208
100	1	100	STM0973		pflB	pyruvate fo	1055096
100	1	100	STM0621		citF	bifunctiona	683829
100	1	100	STM1562			putative pe	1643558
100	1	100	STM1594		srfB	ssrAB activ	1681095
100	1	100	STM3597		gor	glutathione	3768593
100	1	100	STM3631			putative xa	3816585
100	0	61.386	STM4503			putative inr	4757441
100	1	100	STM3730		dfp	flavoproteir	3923518
100	1	100	STM2956		relA	(p)ppGpp s	3102880
100	1	100	STM2680			putative cy	2820947
100	0	100	STM0382			putative pe	435597
100	0	100	STM0437			putative pe	490256
100	1	100	STM0463		amtB	putative An	520894
100	0	60.396	STM3600			putative su	3772467
100	1	100	STM3660		xylB	xylulokinas	3844913
100	0	100	STM3691			putative inr	3881228
100	1	97	STM4389		yjfY	putative ou	4629768
100	1	100	STM0388		aroL	shikimate k	440845
100	1	100	STM0421		yajO	putative ox	473599
100	0	100		STM3161	metC	cystathionii	3320995
100	1	100	STM2847		hycG	hydrogena	2992575
100	1	100	STM3664		malS	alpha-amyl	3850531
100	1	100	STM3335		yhch	putative cy	3504441

100	1	100	STM3263	yraL	putative m	3432400
100	1	100	STM3153	yqhA	putative m	3316274
100	1	100	STM0364	foxA	ferrioxamin	412663
100	1	100	STM2802	ygaM	putative inr	2949309
100	1	100	STM2201	yeiE	putative tra	2300547
100	0	100	STM0373	yaiU	flagellar pro	425165
100	1	100	STM2183	cdd	cytidine/de	2279166
100	1	100	STM2085	rfbN	LPS side c	2165293
100	1	100	STM2141	fbaB	3-oxoacyl-[	2234965
100	1	100	STM2174	yohl	putative nit	2270724
100	1	100	STM3417	rpsK	30S riboso	3584970
100	1	100	STM2108	wcaG	bifunctiona	2191635
100	1	100	STM2167	dld	D-lactate d	2263737
100	1	100	STM0262	yafS	putative SA	302152
100	1	100	STM3624	yhjU	putative inr	3806420
100	1	100	STM3546	yhhY	putative tra	3715617
100	1	100	STM3307	murA	UDP-N-ace	3474895
100	1	99	STM4385	ptxA	putative PT	4626961
100	1	100	STM4468	yjgK	putative cy	4711221
100	1	100	STM4587	creA	putative pe	4843747
100	1	100	STM3740	gmk	guanylate k	3933098
100	1	100	STM3298	yhbY	putative RM	3467442
100	1	100	STM3228	yqjC	putative pe	3396388
100	1	100	STM3349	degS	periplasmic	3516877
100	1	100	STM3262		transcriptio	3431469
100	1	100	STM3225	ygjU	putative dic	3393500
100	1	100	STM0628	pagP	PhoPQ-act	692155
100	1	100	STM0170	hpt	hypoxanthi	200816
100	1	100	STM0722		putative AE	787336
100	1	100	STM4344	yjeA	putative py	4586095
100	1	100	STM1405	sseG	Secretion s	1488754
100	1	100	STM1521	marC	putative M	1598190
100	0	62.376	STM0762		fumarate h	825478
100	1	100	STM0808	ybhM	putative int	874240
100	0	59.406	STM0855		putative ele	926614
100	0	99	STM4521	yjiS	putative cy	4776033
100	0	61.765	STM3117		putative lac	3276380
100	1	100	STM0469	rpmE2	putative 50	526352
100	1	100	STM2965	yqcC	putative cy	3116326
100	0	100		STM3088; yqgC	putative cy	3251177
100	0	49.074	STM1866		pseudogen	1962089
100	1	100	STM4271		putative inr	4510377
100	0	79	STM4216		putative inr	4436190
100	1	100	STM4274	yjch	putative inr	4513154
100	0	58.095	STM1035		Gifsy-2 pro	1123154
100	1	99	STM3422	rpmD	50S riboso	3587804
100	0	60.952	STM1012	STM2628	Gifsy-2 pro	1105050
100	1	100	STM4562		putative inr	4816607
100	1	100	STM1564	yddX	putative cy	1645181
100	0	100	STM2717		Fels-2 pro	2860542
100	1	100	STM0623	citD	citrate lyas	686273
100	1	100	STM0953	infA	protein cha	1030347

100	1	100	STM2716		Fels-2 proç	2860323
100	1	100	STM0140	yacE	putative nu	163207
100	1	100	STM0280		putative ou	319231
100	1	100	STM0181	panC	pantothena	211506
100	1	100	STM0389	yaiA	putative cyf	441417
100	1	100	STM0020		putative cyf	23335
100	1	100	STM3160		putative inr	3320736
100	1	100	STM1852	yebW	putative inr	1950479
100	1	100	STM1585		putative ou	1672219
100	1	100	STM0470	rpmJ2	putative 50	526618
100	1	100	STM1838	yobF	putative cyf	1935769
100	1	100	STM1565	rpsV	30S riboso	1645491
100	1	100	STM0780		putative ou	845359
100	0	60.784	PSLT041	spvR	Salmonella	P31427
100	0	61	PSLT098	traQ	conjugative	P77650
100	0	53.922	PSLT083	trbD	conjugative	P66624
100	0	63.208	PSLT103	traT	conjugative	P83215
100	0	61.165	PSLT052	parA	plasmid pa	P43817
100	0	66.038	PSLT092	traU	conjugative	P72228
62	0	60.377		nuc		R13481
62.376	0	63.366		eex		R8192
61.111	0	61.111		korB		R2746
50.943	0	55.34		traL		R3160
70	0	58		arsB		R47964
65.347	0	68		tetR		R42008
100	0	83	STM2703		Fels-2 proç	2851911
100	0	64.356	aSTM0910			
100	0	60.377	STM0912		Fels-1 proç	983263
100	0	100	aSTM2960			
100	0	100	aSTM2971			
100	0	61.386	aSTM0925	aSTM2589		
64	1	100				
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62.376	1	100				
60.396	1	100				
67.327	1	100				
57.692	1	100				
62.5	1	100				
61.765	1	100				
100	1	100		aSTM1473		
44	1	100				
64.078	1	100				
56	1	100				
67	1	100				
60.377	1	100				
62.136	1	100				
77	0	100				
58.416	1	100				
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100	0	100		aSTM1869		831919
61	1	100				
59	0	100				

62.963	1	100
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63.81	1	100
59.804	1	100
63.81	1	100
60.185	1	100
86	1	100
91	1	100
63.107	1	100
100	0	100 aSTM2708

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100	1	100 STM1780
100	1	100 STM0106
100	1	100 STM3338
100	1	100 STM3372
100	1	100 STM0214
100	1	100 STM0682
100	0	100 STM3390
100	1	100 STM0235
100	0	100 STM1515
100	1	100 STM1964
100	1	100 STM3710
100	1	100 STM2025
100	1	100 STM1963
100	1	100 STM2031
100	1	100 STM1997
100	1	100 STM0046
100	1	100 STM0082
100	1	100 STM3311
100	0	65.421 STM0331
100	1	100 STM1066
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100	1	100 STM1151
100	1	100 STM1200
100	1	100 STM1220
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100	1	100 STM1185
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100	1	100 STM1264
100	1	100 STM1289
100	0	62 STM4571
100	1	100 STM0002
100	0	64.815 STM2746
100	0	60.784 STM2762
100	1	100 STM4549

prsA	phosphorib	1877761
yabJ	putative AE	123410
nanT	MFS family	3506513
mreD	rod shape-	3541908
glnD	uridylyltran	250143
nagC	transcriptio	741692
acrE	transmembr	3561104
yaeR	putative lac	278219
ydeI	putative pe	1593330
yedD	putative ou	2053191
rfaD	ADP-L-glyc	3905316
cbiK	synthesis c	2104414
amyA	cytoplasmic	2051667
cbiE	synthesis c	2109085
umuC	error-prone	2079892
ileS	isoleucine t	53855
	putative se	94771
yrbD	putative AE	3477600
	putative fur	374837
rmf	ribosome n	1157641
	putative pe	1196332
mdoH	membrane	1237946
tmk	thymidylate	1283624
ycfX	putative re	1305845
	putative ou	1220666
rne	RNase E	1268354
ycfJ	putative ou	1295937
	putative ba	3697979
yhhF	putative m	3740347
deoC	2-deoxyrib	4821413
aadA	Aminoglycc	1346596
yeaD	putative en	1367474
	putative ou	4825898
thrA	aspartokin	337
	putative Ex	2886073
	putative inr	2903614
	putative cy	4807528

100	1	100	STM4589	creC	sensory kir	4844922
100	0	100	STM0288		putative cy	328955
100	0	93	STM2764		putative int	2906452
100	1	100	STM2789		putative cy	2937832
100	1	100	STM1095	copS	Copper res	1182280
100	1	100	STM2389	yfcY	paral putati	2500252
100	1	100	STM2425	yfeH	putative Na	2537786
100	1	100	STM2478		putative be	2587868
100	1	100	STM0950		homologue	1027679
100	1	100	STM0981	rpsA	30S riboso	1065791
100	1	100	STM1020	STM2620	Gfsy-2 pro	1109954
100	1	100	STM0955	aat	leucyl, phe	1030877
100	1	100	STM2564	yfhK	putative se	2706174
100	1	100	STM4031		putative cy	4240092
100	1	100	STM4109	talC	putative tra	4323818
100	1	100	STM2868		putative cy	3013339
100	1	100	STM4327	fxsA	suppresses	4572683
100	1	100	STM2487	purC	phosphorib	2602104
100	1	100	STM2535	sseB	enhances s	2675232
100	1	100	STM2570		putative ph	2715207
100	1	100	STM4044		putative iro	4253807
100	1	100	STM4086	glpK	glycerol kin	4294342
100	1	100	STM4122	argB	acetylgluta	4340525
100	1	100	STM2284	glpA	sn-glycerol	2390236
100	0	59.048	STM4498		putative inr	4751237
100	1	100	STM4526	hsdR	endonuclea	4780759
100	1	100	STM1922	motB	enables fla	2019198
100	1	100	STM1323	yniB	putative re	1403157
100	1	100	STM0370	prpD	putative pro	420196
100	1	100	STM4237	lexA	SOS respo	4459249
100	1	100	STM2861	sitA	Salmonella	3006368
100	1	100	STM1445	slyB	putative ou	1520368
100	1	100	STM4398	cycA	APC family	4634848
100	0	59.223	STM4425		putative de	4667909
100	1	100	STM4448		putative ph	4689457
100	1	100	STM4403	cpdB	2':3'-cyclic-	4639560
100	0	65.385	STM4427		putative en	4670360
100	1	100	STM4454	treB	pseudogen	4696802
100	0	64	STM4495		putative typ	4743262
100	0	61.386	STM4536		putative PT	4795371
100	1	100	STM1256		putative AE	1340757
100	1	100	STM1493		putative pe	1570328
100	1	100	STM3801	dsdX	putative Gr	4003098
100	1	100	STM3826	torS	sensory kir	4026452
100	1	100	STM0360		cytochrom	408766
100	1	100	STM0077	fixC	related to c	90461
100	1	100	STM0151	pdhR	transcriptio	175316
100	1	100	STM4238	dinF	DNA-dama	4460035
100	1	100	STM2330	lrhA	NADH deh	2440125
100	1	100	STM1342	btuD	ABC super	1421194
100	1	100	STM0865	ybjG	putative pe	937574
100	1	100	STM1458	ydgM	putative alt	1533770

100	1	100 STM1499		putative dir	1576952
100	1	100 STM1501	ynfC	putative inr	1579950
100	1	100 STM3791		putative cy	3991219
100	1	100 STM2574		putative pe	2719414
100	1	100 STM0404	queA	S-adenosyl	459560
100	1	100 STM4192		putative cy	4414893
100	1	100 STM2368	truA	pseudourid	2480462
100	0	100 STM0347		putative res	391056
100	1	100 STM2527		putative po	2660622
100	1	100 STM0460	mdlA	putative AE	516766
100	1	100 STM0566		putative inr	622059
100	1	99 STM1329		putative inr	1408220
100	1	100 STM4408	msrA	peptide me	4645202
100	1	100 STM4476	holC	DNA polym	4719868
100	1	100 STM2648	yfiF	putative tR	2787413
100	1	100 STM3199	yqiK	paral putati	3360420
100	1	100 STM3241	tdcE	pyruvate fo	3406432
100	1	100 STM3274	yhbU	putative pro	3440273
100	1	100 STM4099	metJ	transcriptio	4309131
100	0	100 STM1380	orf32	putative hy	1463105
100	1	100 STM0471	ylaC	putative inr	526814
100	1	100 STM2791	gabD	succinate-s	2940134
100	0	64.706 STM2605		Gifsy-1 pro	2752336
100	1	100 STM2639	rseA	anti sigma	2778746
100	0	100 STM3191		putative arj	3354502
100	1	100 STM3619	yhjO	glycosyltra	3800842
100	1	100 STM3269	yhbO	putative int	3437752
100	1	100 STM1419	yscR	Secretion s	1498744
100	1	100 STM2499	purM	phosphorib	2613073
100	1	100 STM1125	putP	SSS family	1211980
100	1	100 STM2808	nrdF	ribonucleos	2954637
100	1	100 STM0271		putative cy	309924
100	1	100 STM2882	sipA	cell invasio	3024679
100	1	100 STM3501	envZ	sensory his	3658257
100	1	100 STM1694	sapC	ABC super	1786276
100	1	100 STM4047	rhaB	rhamnuloki	4257308
100	1	100 STM0550	fimY	putative req	611492
100	1	100 STM1224	sifA	lysosomal	1309844
100	1	100 STM1163	pyrC	dihydro-orc	1248515
100	1	100 STM3470	fic	putative ce	3620354
100	1	100 STM4038	fdhD	putative for	4248003
100	1	100 STM0640	mrda	cell elonga	702023
100	1	100 STM0256	yafC	putative tra	295893
100	0	100 STM1457		putative res	1531570
100	1	100 STM2884	sipC	cell invasio	3027857
100	1	100 STM1171	flgN	flagellar bic	1256619
100	1	100 STM4254	uvrA	UvrA with l	4473213
100	1	100 STM2688	smpB	small prote	2826484
100	1	100 STM0035		putative arj	40131
100	1	100 STM4139	coaA	pantothena	4358694
100	1	98 STM3688		putative cy	3879149
100	1	100 STM3865	atpD	membrane	4074111

100	1	100 STM0395	sbcC	ATP-deper	446241
100	1	100 STM2889	spaQ	surface pre	3033385
100	1	100 STM2064	phsB	Hydrogen s	2138082
100	1	100 STM1917	cheB	methyl este	2012690
100	1	100 STM1709	yciS	putative inr	1802691
100	1	100 STM1391	ssrB	Secretion s	1476167
100	1	100 STM3722	rfaG	glucosyltra	3916738
100	1	100 STM0348		putative inr	391708
100	0	99 STM4162	thiF	catalyzes tl	4379105
100	1	100 STM3986	trkH	Trk family,	4193673
100	1	100 STM2522	hisS	histidine tR	2654871
100	1	100 STM3924	wecD	lipopolysac	4133110
100	1	100 STM3905	ilvA	threonine c	4113840
100	1	100 STM1762	narJ	nitrate redu	1856174
100	1	100 STM1791		putative hy	1889470
100	1	100 STM1735	yciB	putative int	1830099
100	1	100 STM0145	nadC	quinolinate	168373
100	1	100 STM0426	phnV	2-aminoeth	479360
100	1	100 STM4035	fdol	formate de	4243211
100	1	100 STM1395	ssaD	Secretion s	1481876
100	1	99 STM0547	fimH	minor fimb	608675
100	1	100 STM3948	yigA	putative cy	4153083
100	1	100 STM3909	ilvC	ketol-acid r	4117377
100	1	100 STM0184	pcnB	poly(A) pol	213874
100	1	100 STM1831	manY	Sugar Spe	1929554
100	1	100 STM1784	ychF	putative G	1881818
100	1	100 STM2896	invA	invasion pr	3038400
100	1	100 STM0474	ybaJ	putative cy	528377
100	1	100 STM1539		putative hy	1613801
100	1	100 STM1516	ydeE	putative MF	1594414
100	1	100 STM0966	dmsC	anaerobic c	1048395
100	1	100 STM0611		putative ox	673704
100	0	100 STM1546		putative mc	1622640
100	0	83 STM1569	fdnH	formate de	1649544
100	1	100 STM1602	sifB	Salmonella	1692181
100	0	84 STM1626	trg	methyl-acc	1715879
100	1	100 STM1648	hslJ	heat shock	1741129
100	1	100 STM1697		putative Di	1789095
100	1	100 STM0508	ybbP	putative inr	567122
100	1	100 STM0511	sfbB	putative AE	571979
100	1	100 STM0536	ppiB	peptidyl-pro	598468
100	1	100 STM0595	entC	isochorism	656255
100	1	100 STM2710		Fels-2 prop	2857415
100	1	100 STM1768	ychP	putative inv	1866722
100	1	100 STM1806	nhaB	NhaB famil	1906828
100	0	100 STM2729		Fels-2 prop	2870268
100	1	100 STM3012		putative tra	3171663
100	1	100 STM3683	selA	selenocyst	3872693
100	1	100 STM3752		putative cy	3948987
100	1	100 STM3168	ygiR	putative Fe	3328938
100	1	100 STM3005	mutH	methyl-dire	3163381
100	0	61.765 STM3085		putative ou	3248052

100	1	100	STM3137		putative urc	3298907
100	1	100	STM2810	proW	ABC super	2957146
100	1	100	STM2800		putative inr	2948325
100	1	100	STM3382	panF	SSS family	3552266
100	0	59.223	STM1040		Gifsy-2 pro	1125600
100	1	100	STM3055	gcvT	glycine clea	3215588
100	0	100	STM3089	yqgD	putative inr	3251338
100	1	100	STM3124		putative re	3284090
100	1	100	STM0468	ylaB	putative di	524577
100	1	100	STM3609	yhjE	putative MF	3783052
100	0	60.784	STM4429		putative cyf	4672417
100	1	100	STM4387	sgaU	putative he	4628099
100	1	100	STM4474	yjgN	putative inr	4715684
100	1	100	STM4590	creD	tolerance tr	4846404
100	1	100	STM2841	ygbD	putative ox	2986507
100	1	100	STM2180		putative tra	2276882
100	1	100	STM2083	rfbK	LPS side c	2162433
100	1	100	STM2801	ygaC	putative cyf	2948809
100	1	100	STM2193	folE	GTP cyclot	2290444
100	1	100	STM2103	wcaJ	putative UI	2185572
100	1	100	STM2176		putative glu	2272979
100	1	100	STM1799	emtA	membrane	1898016
100	1	100	STM3674	lyxK	L-xylulose l	3860963
100	0	60.396	STM2240		putative cyf	2339567
100	1	100	STM1842	kdgR	putative tra	1937671
100	1	100	STM3690		putative inr	3880501
100	1	100	STM3441	rpsJ	30S riboso	3596219
100	1	100	STM4360	miaA	delta(2)-isc	4603542
100	1	100	STM3240	tdcG	L-serine de	3404998
100	1	100	STM3301	yhbZ	putative G	3470219
100	1	100	STM3217	aer	aerotaxis s	3382755
100	1	100	STM3139	gsp	bifunctiona	3302347
100	1	100	STM3066	yggA	putative LY	3227589
100	1	100	STM1178	flgF	flagellar bic	1261040
100	1	100	STM3207	ygiH	putative inr	3371952
100	1	100	STM1386	ttrS	Tetrathione	1471349
100	0	86		STM3753; sugR	ATP bindin	3950009
100	1	100	STM3194		putative dis	3357003
100	1	100	STM3103	yggV	putative Xa	3262528
100	1	100	STM3051	bglA	6-phospho	3209307
100	1	99	STM0759	ybgS	putative ho	823066
100	1	100	STM3136		putative D-	3297423
100	1	100	STM3072		putative inr	3233748
100	1	100	STM1105	hpaH	4-hydroxyp	1192359
100	1	100	STM0777		putative inr	841820
100	1	100	STM0818		membrane	883687
100	1	100	STM0863	dacC	D-alanyl-D-	935497
100	1	100	STM0466	ybaZ	putative m	523957
100	1	100	STM0391	yaiE	putative cyf	442607
100	0	100	STM3127		putative cyf	3287120
100	0	96	STM0561		Sensor pro	618590
100	0	85	STM0562		putative tra	619028

100	1	100	STM2541	yfhF	putative re	2680771
100	1	100	STM1983	dsrB	regulatory l	2068089
100	0	72	STM2231		homologue	2331492
100	1	100	STM2185	b2145	putative inr	2280943
100	1	100	STM0825	ybil	putative Dr	891007
100	1	100	STM4450		putative inr	4691680
100	1	100	STM4523	yjiW	LexA regul	4777047
100	1	100	STM2923		putative cyf	3065213
100	1	100	STM1369	sufA	putative He	1452315
100	1	100	STM1123		putative pe	1207143
100	1	100	STM1377	lpp	murein lipo	1459379
100	1	100	STM3652		putative cyf	3838209
100	1	100	STM3703	yibN	putative Rf	3896885
100	0	100	STM0037		putative cyf	42932
100	1	100	STM0071	caiC	crotonobet	82564
100	1	100	STM0038		putative arj	44312
100	1	100	STM0087	folA	dihydrofola	100839
100	1	100	STM0091	pdxA	NAD-deper	103481
100	1	100	STM0080		putative ou	93607
100	0	63	STM2630		Gifsy-1 pro	2770340
100	1	99	STM1632		putative inr	1722640
100	1	100	STM1689	pspB	phage sho	1781463
100	1	100	STM1673		putative ou	1766967
100	0	66.337	STM1628		putative cyf	1718823
100	1	100	STM3196	yqiC	putative cyf	3358881
100	0	65	PSLT044		putative int	P35113
100	0	59.615	PSLT028	ccdB	toxin addic	P20316
100	0	63.208	PSLT091	traW	conjugative	P71599
100	0	67.961	PSLT037	spvD	Salmonella	P26267
100	0	58.654	PSLT063		putative cyf	P52689
100	0	62.617	PSLT100	traH	conjugative	P78468
52.475	0	53.333		ardB		R27355
64	0	72.277		mucA		R28193
63.462	0	63.462		traD		R8435
44.762	0	56.481		ardA		R24042
58	0	62.5		korA		R3903
100	0	100	PSLT010	srgB	sdiA-regul	P05639
100	0	74	aSTM0893			
100	0	96	aSTM2771	aSTM1959		
100	0	65.347	aSTM0914			
100	0	53.465	aSTM0916			
100	0	54.369	STM0922		Fels-1 pro	993599
100	1	100	STM3113	nupG	MFS family	3271455
62.617	1	100				
51.961	1	100				
63.208	1	100				
58	1	100				
59.223	1	100				
55.446	1	100				
98.02	1	100	aSTM0437			
60.377	1	100				
61.386	0	100				

59.804	1	100
57.547	0	100
43.689	1	100
87	1	100
100	1	100 aSTM1450
66.981	0	100
62.5	1	100
62.264	1	100
83	1	100
83	1	100
50.98	1	100
58.095	1	100
59.406	1	100
69	1	100
94	1	100
60.194	1	100
58.416	1	100
64.423	1	100
63.107	1	100
100	0	100 aSTM3655
66.99	1	100

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100	1	100 STM1227
100	1	100 STM0126
100	0	64.356 STM0159
100	1	100 STM0182
100	1	100 STM0233
100	1	100 STM1513
100	1	100 STM0194
100	0	100 STM0660
100	1	100 STM0696
100	0	73 STM3827
100	0	58.879 STM3846
100	1	100 STM3879
100	0	100 STM3841
100	1	100 STM3860
100	1	100 STM0014
100	1	100 STM2399
100	1	100 STM0775
100	1	100 STM0137
100	0	100 aSTM2779
100	1	100 STM1085
100	1	100 STM3402
100	1	100 STM3458
100	1	100 STM3496
100	1	100 STM1252
100	1	99 STM3450

pepT	putative pe	1313417
murD	UDP-N-acε	147400
	putative re	188515
panB	3-methyl-2-	212486
	putative en	274183
	putative cy	1592074
fhuB	ABC super	227660
	putative cy	724288
ybfF	putative en	758236
dgoT	MFS family	4029213
	putative re	4052406
yieN	paral putati	4087750
	putative inr	4046165
	putative dij	4067127
	putative tra	15014
pgtP	Phosphogl	2512130
galT	galactose-	839524
mutT	7,8-dihydro	161546
aSTM2778		
yccA	putative TE	1174268
yrdC	putative tra	3574089
yheR	putative N/	3609016
yrfG	putative hy	3652384
	putative cy	1336322
yheM	putative ox	3603130

100	1	100	STM3487	aroK	shikimate k	3642227
100	1	100	STM1233	ycfC	membrane	1320861
100	1	100	STM1275	yaoF	putative he	1353820
100	1	100	STM2104	cpsG	phosphom:	2187020
100	1	100	STM2133		putative cy	2225846
100	1	100	STM3537	glgX	glycosyl hy	3704122
100	1	100	STM3574	yhhM	putative inr	3741224
100	1	100	STM2135		putative inr	2227457
100	0	61.386	STM2724		Fels-2 proç	2866927
100	1	100	STM0296		putative cy	340454
100	0	65.049	STM0328		putative pe	371403
100	1	100	STM2124	alkA	3-methyl-a	2211488
100	0	99	aSTM2714	aSTM2713		
100	0	65.741	STM2748		putative tra	2888373
100	0	64.078	STM0330		putative 3-i	374196
100	1	100	STM1064	pqiB	paraquat-ir	1155185
100	1	100	STM1475	rstA	response r	1551289
100	1	100	STM0884		putative inr	954526
100	0	59.091	STM0905		Fels-1 proç	975824
100	0	60.194	aSTM0922	aSTM0923		
100	1	100	STM2528		putative dir	2661485
100	1	100	STM2562	yfhA	putative tra	2704074
100	0	65.347	STM1031		Gifsy-2 pro	1116857
100	1	100	STM0970	pflA	pyruvate fo	1052688
100	1	100	STM0995	ycbB	putative pe	1085020
100	1	100	STM4061	yiiP	putative CI	4271243
100	1	100	STM4224	yjbG	putative pe	4443196
100	0	99	STM2910		putative cy	3052902
100	1	100	STM4342	frdB	fumarate re	4583255
100	0	72	STM0927		Fels-1 proç	1001442
100	1	100	STM0974	focA	putative FN	1057438
100	1	100	STM1005		Gifsy-2 pro	1098228
100	1	100	STM4188	methH	B12-depen	4408252
100	0	78	STM4102		putative inr	4313424
100	1	99	STM4253		putative ou	4472626
100	1	100	STM4467		putative arç	4709325
100	1	100	STM2334	yfbT	putative ph	2445897
100	1	100	STM2361		putative reç	2472873
100	1	100	STM1208	ycfN	putative cy	1291772
100	0	65.385	STM3121		putative tra	3279660
100	1	100	STM1165	grxB	glutaredoxi	1250351
100	1	100	STM4159	thiH	deoxyxyluk	4377022
100	1	100	STM1320	ydjN	part of a ki	1400075
100	1	100	STM4356	yjeF	putative su	4598367
100	0	62.5	STM2005		putative en	2084458
100	1	100	STM2261	napF	ferredoxin-	2359154
100	1	100	STM2291	yfaW	paral putati	2398214
100	0	64.151	STM2007		putative TF	2086921
100	1	100	STM2263	yojI	putative AE	2360762
100	1	100	STM2294	yfaZ	putative inr	2401776
100	1	100	STM2331	yfbQ	putative ar	2441995
100	1	100	STM2369	usg	putative as	2481274

100	1	100 STM1313	celB	PTS family	1392210
100	1	100 STM1414	ssaV	Secretion s	1493656
100	1	100 STM3876	asnC	transcriptio	4084699
100	1	100 STM0302	safD	putative firr	346098
100	1	100 STM0230	rnhB	RNAse HII	268928
100	1	100 STM4234	ubiA	p-hydroxyb	4455210
100	1	100 STM2388	yfcX	paral putati	2498105
100	1	100 STM0131	ftsQ	cell divisior	153533
100	1	100 STM1304	astA	arginine su	1383411
100	0	78 STM1353	ydiR	putative ele	1433552
100	1	99 STM1374	ynhA	putative Su	1457418
100	1	100 STM1574	smvA	Methyl viok	1656810
100	1	100 STM1417	ssaP	Secretion s	1497353
100	1	100 STM0400	proY	putative AF	454652
100	1	100 STM2255	napC	periplasmic	2353683
100	1	100 STM2572	yfhH	putative AE	2717588
100	1	100 STM2070	yeeZ	putative de	2148431
100	1	100 STM0105	yabl	putative De	122604
100	1	100 STM0144	ppdD	putative ma	167714
100	1	100 STM2272	gyrA	DNA gyras	2373711
100	1	100 STM2444	cysP	ABC super	2555425
100	1	100 STM0829	glnP	ABC super	895461
100	1	100 STM2015	erfK	putative pe	2096296
100	1	100 STM0592	fepD	ABC super	652565
100	0	36 STM2600		Gifsy-1 pro	2749476
100	0	62.5 STM2610		Gifsy-1 pro	2758320
100	1	100 STM3749	yicl	putative alç	3944576
100	1	100 STM3630	dppA	ABC super	3814422
100	1	100 STM3557	ugpB	ABC super	3726361
100	1	100 STM0952		putative tra	1029345
100	1	100 STM2519	engA	putative G1	2651457
100	1	100 STM0477	acrR	acrAB oper	533754
100	1	100 STM0514	ybbS	putative tra	574850
100	1	100 STM4399	ytfE	putative ce	4636369
100	1	100 STM4508	trpS2	putative try	4761826
100	1	100 STM4581	yjjK	putative AE	4837159
100	1	100 STM3659	yiaB	putative inr	3844385
100	1	100 STM3235	yhaJ	putative tra	3400012
100	1	100 STM3483	rpe	D-ribulose-	3637995
100	1	100 STM3835	gyrB	DNA gyras	4038855
100	1	100 STM2077	hisF	imidazole ç	2155370
100	1	100 STM0413	tsx	nucleoside	467537
100	1	100 STM1707	pyrF	orotidine-5'	1800587
100	1	100 STM3408	sun	putative rR	3578460
100	1	100 STM3486	aroB	dehydroqui	3641082
100	1	100 STM1960	fliD	flagellar bic	2049402
100	1	100 STM2581	rnc	RNase III, r	2724827
100	1	100 STM2463	eutE	putative alc	2573397
100	1	100 STM3993	mobB	molybdopte	4201684
100	1	100 STM2893	invI	surface pre	3036256
100	1	100 STM1241	msgA	Macrophag	1329466
100	1	100 STM2885	sipB	cell invasio	3029114

100	1	100 STM0870		putative tra	942709
100	1	100 STM0847	ybiK	putative as	917149
100	1	100 STM3473	yhfC	putative MF	3622071
100	1	100 STM2047	pduL	Propanedic	2123805
100	1	100 STM4288	phnB	putative cy	4529604
100	1	100 STM1899	yebC	putative cy	1993786
100	1	100 STM3365	yhcQ	putative m	3531973
100	1	100 STM0043	rpsT	30S riboso	52280
100	1	100 STM0269		putative cy	308622
100	1	100 STM1643		putative inr	1736039
100	0	100 STM4020	yihR	putative alc	4230745
100	1	100 STM0800	slrP	leucine-rich	866944
100	1	100 STM2050	pduO	Propanedic	2125214
100	1	100 STM4298	melA	alpha-galac	4542398
100	1	100 STM1906	yecP	putative en	1999818
100	1	100 STM2062	dacD	DD-carbox	2136025
100	1	100 STM4259		putative AE	4479864
100	1	100 STM2686	yfjF	putative cy	2825578
100	1	100 STM0045	ribF	flavokinase	52872
100	1	100 STM4451	nrdG	anaerobic i	4691968
100	1	100 STM1528	aSTM1529	putative ou	1605156
100	1	100 STM3918	rfe	undecaprei	4127073
100	1	100 STM3961	pldB	lysophosph	4165860
100	1	100 STM2980	ygdE	putative SA	3132765
100	1	100 STM4149	rplK	50 S ribosc	4363105
100	1	100 STM1180	flgH	flagellar bic	1262646
100	1	100 STM3476	nirC	FNT family	3626647
100	1	100 STM3360	argR	repressor c	3528028
100	1	100 STM2954	mazG	putative py	3100610
100	1	100 STM4092	hslV	peptidase c	4300491
100	1	100 STM3983	fadB	3-hydroxya	4189310
100	1	100 STM3966		putative ar	4172370
100	1	100 STM3950	yigB	putative hy	4154689
100	1	100 STM3939	cyaA	adenylate c	4146367
100	1	100 STM1266		putative tra	1348191
100	1	100 STM4154	rpoC	RNA polym	4370013
100	1	100 STM1700	fabI	enoyl-[acyl-	1792136
100	1	100 STM1918	cheR	glutamate i	2013736
100	1	100 STM2964	yqcB	putative sy	3115544
100	1	100 STM0886		putative su	956229
100	1	100 STM0517	gcl	glyoxylate c	577467
100	1	100 STM0997	ycbL	putative Me	1087697
100	1	100 STM1579	narW	nitrate redu	1665969
100	1	100 STM0336	stbE	putative fir	378981
100	1	100 STM1734	yciC	putative inr	1829299
100	1	100 STM1783	pth	peptidyl-tR	1881093
100	1	100 STM1818	fadD	acyl-CoA s	1915222
100	1	100 STM1848	yebS	putative inr	1944612
100	1	100 STM1877		putative ar	1970392
100	1	100 STM0478	aefA	putative sr	534526
100	1	100 STM0612		putative hy	675980
100	1	100 STM0625	dpiB	sensory his	688027

100	1	100	STM0984	msbA	ABC super	1070435
100	1	97	STM0604	ybdM	putative tra	666052
100	1	100	STM1608	tehB	paral putati	1698362
100	0	83	STM1572	nmpC	new outer r	1655173
100	1	100	STM1605	ydcN	putative ox	1695679
100	1	100	STM3615	yhjK	putative Di	3791714
100	0	100	STM3130		putative cy	3290592
100	1	100	STM3698		putative pe	3892725
100	1	100	STM2849	hycE	hydrogena	2993894
100	1	100	STM2975	fucP	pseudogen	3126871
100	1	100	STM2691		putative AE	2840524
100	1	100	STM0414	yajl	putative ou	468700
100	1	100	STM0450	lon	DNA-bindir	505542
100	1	100	STM3584	nikR	nickel-resp	3751343
100	0	100	STM3635	yhjW	putative m	3820576
100	1	100	STM3678		putative ba	3864821
100	1	100	STM3705	yibP	paral putati	3899118
100	1	100	STM0258	yafD	putative cy	298240
100	1	100	STM0405	tgt	tRNA-guan	460821
100	1	100	STM3144	hybF	putative hy	3307478
100	1	100	STM2815	emrB	putative MF	2962967
100	1	100	STM3625	yhjV	putative H/	3808931
100	1	100	STM3681		putative tra	3869680
100	1	100	STM3299	greA	transcriptio	3467930
100	1	100	STM3214	yqjH	putative tra	3379159
100	1	100	STM3134		putative pe	3294419
100	1	100	STM2827	alaS	alanyl-tRN/	2971371
100	1	100	STM2190	mgIB	ABC super	2286618
100	1	100	STM2225		putative inr	2326826
100	1	100	STM2839	ygaA	putative req	2983365
100	1	100	STM2217	yejB	putative AE	2318034
100	0	62.745	STM2238		putative ph	2337824
100	1	100	STM2162	yehW	putative AE	2257247
100	1	100	STM0934	ltaA	L-allo-threc	1009067
100	1	100	STM3430	rplN	50S riboso	3591039
100	1	100	STM2149	stcD	putative ou	2242832
100	1	100	STM2178		putative 1,2	2274349
100	1	100	STM3420	secY	preprotein	3586027
100	1	100	STM3589	pitA	PiT family,	3758496
100	1	100	STM3340	yhck	putative req	3509147
100	1	100	STM4527	mrr	restriction c	4784466
100	1	100	STM4410	ytfN	putative pe	4647783
100	1	100	STM4557	holD	DNA polym	4812269
100	1	100	STM4339	blc	outer mem	4581834
100	1	100	STM4458	yjgF	putative tra	4703033
100	1	100	STM3253		putative fru	3422605
100	1	100	STM0667	ybeX	putative CE	731730
100	1	100	STM3322	ptsN	sugar spec	3486271
100	1	100	STM3234	yhaH	putative inr	3399608
100	1	100	STM0186	dksA	dnaK supp	216398
100	1	100	STM1403	sscB	Secretion s	1487525
100	1	100	STM3044	xerD	recombina	3204425

100	0	73.267	STM0769		putative cy	833339
100	1	100	STM1398		sseB Secretion s	1483934
100	1	100	STM1090		pipC Pathogenic	1177873
100	0	100	STM0726		putative gly	791776
100	1	100	STM0788		hutG formimionc	853061
100	1	100	STM0832		ybiF putative pe	898293
100	1	100	STM3049		yqfA putative he	3208014
100	1	100	STM2955		putative tra	3102440
100	1	100	STM0406		yajC preprotein	461971
100	1	100	STM0473		hha hemolysin	528131
100	1	100	STM3159		exbB uptake of e	3320009
100	1	100	STM2983		ygdI putative lip	3135536
100	1	100	STM1996		cspB putative co	2079225
100	1	100	STM4285		fdhF formate de	4525350
100	1	100	STM4251		yjbR putative cy	4471944
100	1	100	STM4331		yjel putative ou	4576983
100	1	99	STM1121		ymdF putative cy	1206204
100	0	61.165	STM3720		yibR putative inr	3915683
100	1	100	STM2299		yfbG paral putati	2406093
100	0	100	STM2252	STM3817	ccmC ABC super	2351600
100	1	98	STM2732		Fels-2 proç	2873769
100	1	100	STM1616		putative Su	1705470
100	1	100	STM1526		yneG putative cy	1603570
100	1	99	STM1652		ynaF putative un	1746131
100	1	100	STM1876		holE DNA polym	1970054
100	1	100	STM0143		hofB putative int	166319
100	1	100	STM3792		putative L-f	3992244
100	1	100	STM3878		yieM putative inr	4086305
100	1	100	STM0417		ribH riboflavin s	471036
100	1	100	STM3087		yqgB putative inr	3250912
100	0	99	STM4255		putative cy	4476003
100	1	100	STM1645		ynbE putative ou	1736962
100	1	100	STM1687		pspD phage shoç	1780863
100	0	99	STM3760		putative cy	3959108
100	1	100	STM1840		yobG putative inr	1936919
100	0	76	STM2618		Gifsy-1 pro	2763574
100	1	100	STM0742		ybgT putative ou	812267
100	0	62.136	PSLT069		psiB Plasmid SÇ	P57322
100	0	62.264	PSLT050	aPSLT049	putative cy	P40981
100	0	61.765	PSLT099		trbB conjugative	P77930
100	0	62.857	PSLT006		repA DNA replic	P01908
100	0	64	PSLT071		pseudogen	P59000
100	0	58	aPSLT108	PSLT109	pseudogen	P89312
66	0	64			qacEdelta1	R38223
61.165	0	70			sul1	R38564
64.151	0	63.208			ccgAl	R23032
62.136	0	63.107			mpr	R30037
57	0	57			traE	R9694
100	0	100	aSTM1826			
100	1	100	STM0907		Fels-1 proç	977159
100	0	62	STM0911		Fels-1 proç	981876
100	0	100	STM2779		putative inr	2926295

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100	0	100 aSTM3076
100	0	100 aSTM0964
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58.416	1	100
70	1	100
90	1	100
55	1	100
78	1	100
46.226	1	100
75	1	100
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60.577	1	100
73	1	100
68	1	100
53	1	100
64.706	0	100
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73	1	100
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64.762	1	100
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60.377	1	100
83	1	100
59.406	1	100
61.682	1	100
63.366	1	100
64.078	1	100
59.223	1	100

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100	1	100 STM0220
100	1	100 STM1505
100	1	100 STM1536
100	1	100 STM4455
100	0	100 STM2033
100	1	100 STM0007
100	1	100 STM1724

caiB	l-carnitine c	84180
yrbH	putative po	3480962
	putative tar	3522247
	putative mε	3557926
ybeV	putative mc	721039
	putative tra	755353
dxr	1-deoxy-D-	257846
rspA	putative de	1582248
	putative hy	1610688
treR	transcriptio	4698357
cbiC	synthesis c	2110823
talB	transaldola	7665
trpD	anthranilat	1820112

100	1	100	STM2023		cbiM	synthesis c	2102970
100	1	100	STM1726		trpB	tryptophan	1823079
100	0	94	STM0065			putative vir	75088
100	1	100	STM0096		hepA	RNA polym	110002
100	1	100	STM3333			putative pu	3501838
100	0	76	STM1050			Gifsy-2 pro	1138914
100	1	100	STM1096		copR	Copper res	1183637
100	1	100	STM1129			putative inr	1218274
100	1	100	STM1167		rimJ	acetylation	1252507
100	1	100	STM1210		ycfP	putative es	1293657
100	1	100	STM1273			putative nit	1352183
100	1	100	STM1155		htrB	lauroyl/myr	1242616
100	1	100	STM1202		ycfH	putative mε	1285277
100	1	100	STM3526		glpD	sn-glycerol	3688731
100	1	100	STM3551		ggt	gamma-glu	3720462
100	1	100	STM4542		yjjA	putative ou	4802273
100	0	99	STM4584		yjjX	putative cy	4841458
100	1	100	STM1277		yeaO	putative cy	1354437
100	1	100	STM4546		yjjP	paral putati	4804628
100	1	100	STM4586		rob	transcriptio	4842666
100	1	100	STM0274			putative cy	314499
100	0	63.462	STM2754			putative he	2892409
100	1	100	STM2775		iroD	Similar to ε	2921336
100	0	59	STM4573		stjC	putative fir	4828889
100	0	41.748	STM0277			putative cy	317683
100	0	85	STM0299		safA	putative ou	342209
100	1	100	STM2777		iroN	TonB-depe	2923589
100	0	100	STM4008			putative cy	4216987
100	1	100	STM1106		hpal	4-hydroxyp	1193173
100	1	100	STM2405			putative thi	2520388
100	0	100	STM2449			putative ac	2559695
100	1	100	STM2490		gcvR	transcriptio	2605001
100	1	100	STM0968		ycaD	putative MF	1049608
100	1	100	STM0993		mukE	putative ch	1079505
100	0	100		STM4015		putative cy	4224005
100	1	100	STM2545			putative rR	2683585
100	0	56.757	STM2587			Gifsy-1 pro	2733905
100	1	100	STM4079		yneC	putative inr	4289070
100	1	100	STM4118		yijP	putative Int	4333309
100	1	100	STM4308			putative co	4555731
100	0	74.51	STM2943			putative cy	3082472
100	1	100	STM2503			putative diç	2618585
100	1	100	STM2558		cadB	APC family	2698536
100	0	63.725	aSTM2590	aSTM2591			
100	1	100	STM4068			putative req	4279021
100	0	70.476	STM4113		frwB	PTS system	4328395
100	1	100	STM2857		hypD	putative hy	3001358
100	0	62.745	STM4490			putative Mr	4735575
100	1	100	STM4515		yjiJ	putative su	4769280
100	0	95	STM2055		pduU	Propanedic	2130648
100	1	100	STM1271		yeaR	putative cy	1351406
100	1	100	STM1483		ydgE	putative mε	1560599

100	1	100	STM1234		trmU	tRNA (5-m	1321589
100	1	100	STM1213		ycfQ	putative tra	1296551
100	0	99	STM3478		bigA	putative su	3629167
100	1	100	STM1940			putative ce	2033128
100	0	65	STM4417			putative tra	4658541
100	0	65.686	STM4434			putative pe	4677985
100	0	65.138	STM4484		idnD	L-idonate 5	4727963
100	0	60.396	STM4419			sugar (and	4661317
100	0	60.396	STM4436			putative en	4680240
100	0	100	STM4486		yjgB	putative alc	4729769
100	1	100	STM2341			putative tra	2454095
100	1	100	STM1925		flhD	regulator o	2021717
100	1	100	STM1341		btuE	ABC super	1420643
100	1	100	STM2080		udg	UDP-glucos	2157958
100	1	100	STM3836		recF	gap repair	4041298
100	1	100	STM2568		yfhC	putative Cy	2713992
100	1	100	STM0207		pfs	5'-methylth	242062
100	1	100	STM0127		ftsW	essential co	148716
100	1	100	STM0108		tbpA	thiamine-bi	125687
100	1	100	STM2385		yfcB	putative me	2495662
100	1	99	STM1321		ydjM	LexA regul	1401603
100	1	100	STM1978		fliO	flagellar bic	2064949
100	1	100	STM2147		thiM	hydroxyethy	2241048
100	1	100	STM1469		fumC	fumarase C	1544000
100	0	65.686	STM2089		rfbJ	LPS side ch	2169999
100	1	100	STM2094		rfbC	dTDP-4,de	2175118
100	1	100	STM3852		yieH	putative ph	4059240
100	1	100	STM0218		pyrH	uridylylate ki	256276
100	1	100	STM0422		dxs	1-deoxyxyl	474630
100	1	100	STM0136		secA	preprotein	158689
100	1	100	STM2320		nuoJ	NADH dehyd	2429798
100	0	84.158	STM1054			Gifsy-2 pro	1142282
100	1	100	STM1016	STM2624		Gifsy-2 pro	1107990
100	1	100	STM0502		ybbL	putative AE	562486
100	1	100	STM0493		fsr	putative MF	552241
100	1	100	STM4341		frdC	fumarate re	4582849
100	0	53.774	STM2608			Gifsy-1 pro	2755586
100	1	100	STM1021	STM2619		Gifsy-2 pro	1110765
100	1	100	STM3186		tolC	outer mem	3348567
100	1	100	STM3218		oat	putative ac	3384795
100	1	100	STM3261			galactitol-1	3430315
100	1	100	STM2296		ais	aluminum i	2403067
100	1	100	STM2427		lig	DNA ligase	2539001
100	1	100	STM0519		glxR	tartronic se	580138
100	0	100		STM0028	bcfH	putative thi	31274
100	0	64.356	STM2597			Gifsy-1 pro	2747033
100	0	60.185	STM2613	STM1027		Gifsy-1 pro	2759863
100	1	100	STM2652		pssA	phosphatid	2792655
100	1	100	STM3205		bacA	bacitracin r	3370567
100	1	100	STM3586		yhiH	putative AE	3752958
100	1	100	STM3280		deaD	cysteine su	3446185
100	1	100	STM0419		thiL	thiamin-mc	472025

100	1	100	STM2440	cysM	cysteine sy	2551651
100	1	100	STM0845	moeB	molybdopte	914962
100	1	100	STM0264	dnaQ	DNA polym	303402
100	1	100	STM1422	ssaU	Secretion s	1500431
100	1	100	STM2352	hisM	ABC super	2462918
100	1	100	STM0013	dnaJ	heat shock	13595
100	1	100	STM1737	tonB	energy trar	1831260
100	1	100	STM2455	eutK	putative ca	2565160
100	1	100	STM4078	yneB	putative fru	4288151
100	1	100	STM0066	carA	carbamoyl-	75880
100	1	100	STM2460	eutH	putative tra	2570024
100	1	100	STM4123	argH	argininosuc	4341419
100	1	100	STM0758	ybgR	putative CI	822017
100	1	100	STM0746	tolR	tol protein,	814124
100	1	100	STM2807	nrdE	ribonucleos	2952482
100	1	100	STM1519	marA	transcriptio	1597094
100	1	100	STM2879	sicP	chaparone,	3023689
100	1	100	STM1680	ycjI	putative ca	1773800
100	1	100	STM3378		putative inr	3549103
100	1	100	STM0239	yaeQ	putative cyI	280692
100	1	100	STM1231	phoP	response r	1318689
100	1	100	STM4168	nfi	endonuclea	4385219
100	1	100	STM2375		putative cyI	2486915
100	1	100	STM4377	aidB	putative ac	4619614
100	1	100	STM1393	ssaB	Secretion s	1479999
100	1	100	STM1193	fabH	3-oxoacyl-[	1277312
100	1	100	STM1704	yciT	putative req	1798912
100	1	100	STM1904	yecN	putative inr	1998642
100	0	100	aSTM4261			
100	0	79	STM1008	STM2633	Gifsy-2 pro	1100136
100	1	100	STM1142	csgD	putative tra	1229728
100	1	100	STM0717		putative inr	782654
100	1	100	STM4171	yjaH	putative inr	4386993
100	1	100	STM3978	yigC	putative ox	4183598
100	1	100	STM3953	yigF	putative inr	4159174
100	1	100	STM3915	trxA	thioredoxin	4124836
100	1	100	STM1764	narG	nitrate red	1858413
100	1	100	STM1822	yoaB	putative tra	1920559
100	1	100	STM1738	ycil	putative cyI	1832212
100	1	100	STM3010	aas	bifunctiona	3167872
100	1	100	STM2897	invE	invasion pr	3040482
100	1	99	STM2699		Fels-2 pro	2849227
100	1	100	STM2046	pduK	Propanedic	2123323
100	1	100	STM1576	narU	MFS super	1659208
100	1	100	STM3941		putative inr	4149560
100	1	100	STM3927		putative inr	4136042
100	1	100	STM3900	ilvL	ilvGEDA op	4108735
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100	1	100	STM1807	dsbB	putative dis	1908514
100	1	100	STM1715	yciN	putative cyI	1812792
100	1	100	STM2934	cysN	ATP-sulfur	3072942
100	1	100	STM1880	yebE	putative inr	1974069

100	1	100	STM0617	rna	RNase I, cl	679989
100	1	100	STM1545		putative m	1621409
100	1	100	STM0598	entA	2,3-dihydr	659921
100	1	100	STM1612		putative ce	1701798
100	0	65.686	STM1555		putative tra	1632130
100	1	100	STM1587	yncD	paral putati	1673910
100	1	100	STM1615		putative nu	1704532
100	1	100	STM1634		putative an	1724659
100	1	100	STM1892	znuC	ABC super	1987387
100	1	100	STM0892	ybjP	putative lip	962001
100	1	100	STM0522	allP	putative NC	582566
100	1	100	STM0523	allB	allantoinas	583958
100	1	100	STM0961	lolA	periplasmic	1041566
100	1	100	STM1640	ydcF	putative inr	1730470
100	0	99	STM1747		putative inr	1841307
100	1	100	STM1792		putative cy	1890393
100	1	100	STM1828	yoaE	putative inr	1926504
100	1	100	STM3074		putative AE	3235022
100	1	100	STM3672	yiaN	putative De	3858684
100	0	91	STM1553		pseudogen	1628820
100	1	100	STM3799		putative pe	4000800
100	1	100	STM2986		putative int	3137904
100	1	100	STM3065	yggE	putative pe	3226749
100	0	60.577	STM3120		putative tra	3278726
100	0	100	STM3154		putative AT	3317048
100	1	100	STM2840		putative fla	2985071
100	1	100	STM3086	speA	arginine de	3248927
100	0	63.551	STM4186		putative cy	4406793
100	1	100	STM3654		pseudogen	3839283
100	0	64.706	STM3080		putative m	3241814
100	0	100	aSTM3114			
100	1	100	STM0455	ybaX	putative (al	511670
100	1	100	STM3590	uspB	universal s	3760132
100	1	100	STM3108	yggL	putative cy	3267485
100	0	99	aSTM0555			
100	1	100	STM4438	pmbA	putative pe	4681827
100	1	100	STM4561	osmY	hyperosmo	4815879
100	1	100	STM2812		putative inr	2959440
100	1	100	STM2128	yegO	putative res	2218648
100	1	100	STM2215	rtn	putative m	2314556
100	1	100	STM2099	wcaM	putative co	2180028
100	1	100	STM2131	baeR	response r	2224537
100	1	100	STM2203	nfo	endonucle	2302659
100	1	100	STM2122	udk	uridine/cyti	2207558
100	1	100	STM1846	proQ	activator of	1943202
100	1	100	STM3695	yibK	putative tR	3889591
100	1	100	STM3645	yiaD	putative ou	3832806
100	1	100	STM2192	yeiB	putative inr	2289287
100	1	100	STM1775	hemK	putative pr	1872498
100	1	100	STM3670		putative ch	3857137
100	0	100	aSTM0907	STM1869A	putative pr	1966094
100	1	100	STM4375	yjfM	putative inr	4617725

100	1	100	STM3183	icc	cyclic 3',5'	3346463
100	1	100	STM3273	yhbT	putative lipi	3439532
100	1	100	STM3158	exbD	uptake of e	3319577
100	1	100	STM3067	yggB	putative mε	3228424
100	1	100	STM3325	yrbL	putative cyf	3488180
100	1	100	STM3759	marT	putative tra	3958198
100	1	100	STM3164	yqhD	putative alc	3324137
100	1	100	STM1660	fnr	transcriptio	1754332
100	1	100	STM3763	mgtB	Mg2+ trans	3961542
100	1	100	STM3156		putative cyf	3318052
100	1	100	STM3077	yggG	putative Zn	3238660
100	1	100	STM1083	yccX	putative ph	1173574
100	1	100	STM0785	ybhE	putative 3-α	849181
100	1	100	STM3097	yqgF	putative en	3258665
100	1	100	STM1063	pqiA	paraquat-ir	1153927
100	1	100	STM0748	tolB	tol protein r	815964
100	1	100	STM0795	bioF	7-keto-8-ar	861207
100	1	100	STM0842	ybiV(1)	putative hy	910460
100	1	99	STM1599	pdgL	Periplasmic	1689954
100	1	100	STM0440	cyoD	cytochrome	494256
100	1	100	STM3034		putative cyf	3195554
100	1	100	STM3102	yggU	putative cyf	3262230
100	1	100	STM0485	ybaB	putative cyf	542881
100	1	100	STM0587	ybdZ	putative cyf	645247
100	1	100	STM2498	upp	uracil phos	2612033
100	0	60	STM1034		Gifsy-2 pro	1122838
100	1	100	STM2148		putative pe	2242255
100	1	99	STM0355		putative Cc	401402
100	1	100	STM0411	yajD	putative cyf	466561
100	1	100	STM3702	grxC	glutaredoxi	3896547
100	1	100	STM4379	yjfO	putative lipi	4621687
100	1	100	STM2856	hypC	putative hy	3001086
100	1	100	STM1118	yccJ	putative cyf	1204975
100	1	100	STM1249		putative pe	1334045
100	1	100	STM1314	celC	PTS family	1393619
100	1	100	STM3772		putative ph	3971905
100	1	100	STM3773		putative Nt	3972549
100	0	99	STM0056		putative ox	66654
100	1	100	STM0018		putative ex	17867
100	1	100	STM0057		putative cit	67052
100	0	100	STM0019		putative hy	20058
100	1	100	STM0029		putative tra	32545
100	1	100	STM0093	imp	Organic so	105810
100	1	100	STM1146	ymdA	putative pe	1232604
100	1	100	STM1613		putative PT	1702913
100	1	100	STM1662	ynaJ	putative inr	1756279
100	1	100	STM1603	yncJ	putative pe	1693405
100	0	59.223	STM1551		putative cyf	1626839
100	1	100	STM3237	yhaL	putative cyf	3401738
100	0	61.321	PSLT082	traP	conjugative P66050	
100	0	64.706	PSLT070	psiA	Plasmid SC P57753	
100	0	63.107	aPSLT108	aPSLT109		

100	0	61.765 PSLT031	rsdB	resolvase	P21466
100	0	57.798 PSLT084	traV	conjugative	P66866
100	0	58.416 PSLT035		putative tra	P25309
61	0	61	arsR		R45382
61.386	0	64.815	arsD		R45783
71.569	0	71.569	mucB		R28621
56.731	0	60.396			R41659
61.386	0	61.386	ccgC		R25049
100	0	70 PSLT023	repA2	DNA replic	P16636
100	1	99 STM2714		Fels-2 proç	2859028
100	0	100 aSTM2777			
100	0	61.538 aSTM0915			
100	0	64 aSTM0918			
100	0	63.551 STM0923		Fels-1 proç	994231
100	1	100 STM3114	speC	ornithine de	3272773
61.538	1	100			
100	1	100	aSTM0705		
59.048	1	100			
63.551	0	100			
62.376	1	100			
90	1	100			
58.252	1	100			
60.952	1	100			
65.385	1	100			
63.725	0	100			
59.615	1	100			
62.376	1	100			
78	1	100			
53.465	1	100			
57.282	1	100			
62	1	100			
40	1	100			
99	1	100			
55.446	1	100			
98	0	100	aSTM1056		
61.765	1	100			
99	0	100	aSTM0056		
100	1	100	aSTM2729		
94	1	100			
53.398	1	100			
71	1	100			
64.356	1	100			
97	1	100	aSTM4524		
92	1	100			
64.151	1	100			
	0				
	0				
	0				
	0				
	0				
	0				
100	0	61 STM1531		putative hy	1607674

100	1	100	STM3823	torC	trimethylar	4023353
100	1	100	STM0434	apbA	ketopantoa	486780
100	1	100	STM2019	cbiP	synthesis c	2099682
100	1	100	STM0039	nhaA	NhaA famil	46190
100	1	100	STM0075	fixA	putative fla	88684
100	1	100	STM4050	rhaT	DMT Supe	4260899
100	1	100	STM3173	plsC	1-acyl-sn-g	3335953
100	1	100	STM3327	yhbL	sigma cros	3489612
100	1	100	STM3366	yhcR	putative inr	3532913
100	1	100	STM3391	acrF	RND family	3562273
100	1	100	STM0653	ybeL	putative cyf	716566
100	1	100	STM0154	lpdA	lipoamide c	181007
100	0	99	STM0178	yadI	putative PT	209293
100	1	100	STM0210	yaeG	putative inr	246072
100	1	100	STM0241	cutF	pseudogen	281688
100	0	75	STM1525	yneH	putative glu	1602644
100	0	57.426	STM3636	lpfE	long polar f	3822485
100	1	100	STM3543	gntR	transcriptio	3712167
100	0	63.462	STM4539		putative glu	4797476
100	1	100	STM4592	sthD	putative firr	4848937
100	0	63.107	STM2742		putative cyf	2880444
100	0	95	STM0325	aSTM0324; aSTM276	putative IS:	369197
100	0	62.617	STM1052		pseudogen	1141007
100	1	100	STM2708		Fels-2 proç	2856164
100	0	60.377	STM2734		Fels-2 proç	2874631
100	1	100	STM0311	yafJ	putative glu	356072
100	1	100	STM2783	nxiA	putative nic	2931213
100	1	100	STM1101	hpaG	4-hydroxyp	1188221
100	1	100	STM1135	ycdW	paral putati	1225066
100	0	61.165	aSTM1046	aSTM1047		
100	1	100	STM1092	orfX	putative cyf	1180248
100	1	100	STM1126	phoH	PhoB-depe	1214315
100	1	100	STM1158		putative inr	1245432
100	1	100	STM1206	ycfL	putative ou	1290765
100	0	77	STM3529		putative gly	3692494
100	1	100	STM3401	aroE	dehydroshi	3573266
100	1	100	STM1164	yceB	putative ou	1249666
100	1	100	STM3506	feoB	FeoB famil	3664136
100	0	61.165	STM3530		pseudogen	3693941
100	1	100	STM3579	yhhQ	putative int	3746924
100	1	100	STM4073	ydeW	putative tra	4282286
100	0	65.094	STM1039		Gfsy-2 pro	1125205
100	0	67	STM4204		putative inr	4424446
100	1	100	STM4246	dnaB	putative reç	4466591
100	1	100	STM4283	gltP	DAACS far	4523016
100	1	100	STM2929	ispF	2C-methyl-	3070266
100	1	100	STM0871	ybjM	putative inr	944665
100	1	100	STM2379		putative pe	2489936
100	0	48.039	STM0909		Fels-1 proç	979090
100	0	66.019	STM0925	aSTM2589	Fels-1 proç	995580
100	1	100	STM2532		putative inr	2667763
100	1	100	STM4184	aceA	isocitrate ly	4403672

100	0	78	STM4207		putative ph	4427609
100	1	100	STM4278	nrfB	formate-de	4517565
100	1	100	STM4315		putative Ar	4560882
100	1	100	STM4347	yjeP	putative pe	4589233
100	1	100	STM2401	ddg	cold shock	2514561
100	1	100	STM2446		putative iro	2557628
100	1	100	STM2488	nlpB	lipoprotein-	2602992
100	1	100	STM1295	sppA	protease IV	1372910
100	1	100	STM0024	bcfD	fimbrial suk	28425
100	1	100	STM4374	yjfL	putative inr	4617317
100	1	100	STM4411	ytfP	putative cyf	4651565
100	1	100	STM2273		putative de	2376757
100	1	100	STM2319	nuoK	NADH deh	2429499
100	1	100	STM2311	elaB	putative inr	2418778
100	1	100	STM2339	yfcC	putative int	2451580
100	1	100	STM2058	pduX	Propanedic	2132712
100	1	100	STM3242	tdcD	propionate	3408760
100	0	83	STM0197	stfD	putative pe	233978
100	1	100	STM1149	mdoC	membrane	1234992
100	0	66	STM0199	stfF	putative mi	235258
100	1	100	STM0367	prpR	regulator fc	416087
100	1	100	STM1284	yeaH	putative cyf	1360419
100	1	100	STM1428	ydhC	putative MF	1505673
100	1	100	STM4383	sgaT	putative PT	4625200
100	0	61.538	STM4420		putative inr	4663106
100	1	100	STM2356	ubiX	3-octapren	2466582
100	1	100	STM1337	pheS	phenylalan	1415678
100	1	100	STM1372	sufD	required fo	1454917
100	1	100	STM4560	prfC	peptide cha	4813888
100	1	100	STM1494		ABC-type t	1571259
100	1	100	STM3776	yicM	putative MF	3977385
100	1	100	STM4230	malkK	bifunctiona	4450881
100	1	100	STM3882	rbsA	ABC super	4092086
100	1	100	STM0248	yaeD	putative de	288244
100	1	100	STM1991	vsr	DNA mism	2073878
100	1	100	STM4241	zur	transcriptio	4461800
100	0	100	STM1305	astD	succinylglu	1384442
100	1	100	STM1308	spy	periplasmic	1388557
100	0	73	STM1356	ydiO	putative ac	1436703
100	1	100	STM1442	ydhJ	putative mt	1518586
100	1	100	STM1176	flgD	flagellar bic	1259083
100	1	100	STM2095	rfbA	dTDP-gluc	2175670
100	1	100	STM0319	crl	transcriptio	364528
100	1	100	STM4513	yjiG	putative pe	4767278
100	1	100	STM4596		putative inr	4853733
100	1	100	STM3617	bcsC	endo-1,4-D	3797418
100	1	100	STM3270	yhbP	putative cyf	3438250
100	1	100	STM2306	menC	o-succinylb	2413037
100	1	100	STM2286	glpC	sn-glycerol	2393110
100	1	100	STM2491	bcp	thiol peroxi	2605639
100	1	100	STM0505	ybbO	putative ox	564929
100	0	63.107	STM2595		Gifsy-1 pro	2746252

100	0	60.194	STM2611		Gifsy-1 pro	2758957	
100	1	100	STM3746		gltS	GltS family	3939819
100	1	100	STM3629		dppB	ABC super	3813246
100	1	100	STM3626		dppF	ABC super	3810330
100	1	100	STM3545		yhhX	putative ox	3714111
100	0	58.095	STM1042			Gifsy-2 pro	1128993
100	1	100	STM1014	STM2626		Gifsy-2 pro	1106244
100	1	100	STM4470		yjgD	putative cy	4712917
100	1	100	STM2945		sopD	secreted pi	3087148
100	1	100	STM4460		pyrB	aspartate c	4703970
100	1	100	STM4101		metL	aspartokin	4310876
100	1	100	STM0706		kdpA	P-type ATF	772356
100	1	100	STM0713		ybgK	putative ca	779457
100	1	100	STM0544		fimI	fimbrial pro	604748
100	1	100	STM2565		purG	phosphorib	2708254
100	1	100	STM4049		rhaR	positive reg	4260054
100	0	100		STM0645	ybeN	putative Ni	706846
100	1	100	STM0268			putative cy	306723
100	1	100	STM2559		cadA	lysine deca	2699950
100	1	100	STM3502		ompR	response r	3659606
100	1	100	STM1695		sapD	ABC super	1787166
100	1	100	STM0110		leuD	3-isopropyl	129057
100	1	100	STM1749		adhE	iron-depen	1843128
100	1	100	STM2892		invJ	surface pre	3035246
100	1	100	STM2459		eutA	CPPZ-55 p	2568624
100	1	100	STM4029		yjiD	putative ac	4238645
100	1	100	STM0634		ybeF	putative tra	696033
100	1	100	STM4165		rsd	regulator o	4382750
100	1	100	STM4022		yihT	putative alc	4232863
100	1	100	STM4002			putative cy	4210124
100	1	100	STM1518		marB	multiple an	1596850
100	1	100	STM1191		rpmF	50S riboso	1275846
100	1	100	STM1682		tpx	thiol peroxi	1775584
100	1	100	STM2501		ppk	polyphosph	2614937
100	1	99	STM3362			putative pe	3529230
100	1	100	STM3719		rfaB	UDP-D-gal	3914534
100	0	99	STM0305			putative cy	349674
100	1	99	STM4160		thiG	deoxyxyluk	4378152
100	1	100	STM3774			putative inr	3975544
100	1	100	STM1948			putative inr	2039215
100	1	100	STM3870		atpE	membrane	4079066
100	1	100	STM2037		pduF	Propanedic	2115527
100	1	100	STM4294		yjdE	putative AF	4536161
100	1	100	STM1911			putative cy	2006444
100	1	100	STM1712		acnA	aconitate h	1804755
100	1	100	STM2670		aroF	3-deoxy-D-	2811475
100	1	100	STM2960		gudD	d-glucarate	3110539
100	1	100	STM0428		phnT	2-aminoeth	481023
100	1	100	STM3977		rfaH	transcriptio	4182924
100	1	100	STM3952		corA	MIT family,	4158175
100	0	100	STM3923		rffH	glucose-1- μ	4132779
100	1	100	STM1885		edd	6-phospho	1977621

100	1	100 STM3912	rep	rep helicase	4119763
100	1	100 STM0107	yabK	putative bir	124101
100	1	100 STM1748	ychE	putative int	1842004
100	1	100 STM1788		putative Ni	1887755
100	1	100 STM3001	thyA	thymidylate	3158017
100	1	100 STM1743	oppD	ABC super	1836624
100	1	100 STM4042		putative br	4252099
100	1	100 STM3955	rarD	chloramph	4160063
100	1	100 STM3907		putative cy	4115982
100	0	48.571 STM2601		Gifsy-1 pro	2750082
100	1	100 STM1804	ycgB	putative cy	1904310
100	1	100 STM1756	purU	formyltetra	1851568
100	1	100 STM1597	ydcW	putative alc	1686834
100	1	100 STM1845	prc	carboxy-ter	1941134
100	1	100 STM1890	yebA	putative Pe	1985080
100	1	100 STM0504	ybbN	paral putati	564015
100	1	100 STM0527	allC	allantoate	588723
100	1	100 STM0531	yIbF	putative cy	594305
100	1	100 STM0579	ybdF	putative cy	637778
100	1	100 STM0616	rnk	regulator o	679344
100	0	99 STM1549		putative tra	1626005
100	1	100 STM1785		putative cy	1883068
100	1	100 STM1617		putative rib	1705919
100	1	100 STM1620		putative ox	1707842
100	0	99	STM1653	putative me	1746615
100	1	100 STM1681	ycjG	putative ch	1774503
100	1	100 STM0498	ybaR	putative co	557945
100	1	100 STM1522	ydeA	MFS family	1598902
100	1	100 STM1560		putative al	1640717
100	0	77 STM3083		putative M	3244366
100	1	100 STM0435	yajQ	putative cy	487799
100	1	100 STM3582	yhhT	putative Pe	3749572
100	0	100	STM4041; aSTM4042	putative inr	4251776
100	1	100 STM3673	yiaO	putative dic	3859973
100	1	100 STM3732	ttk	putative tra	3925285
100	1	100 STM3739	yicF	putative DM	3931156
100	1	100 STM2977	fucK	L-fuculokin	3130096
100	0	99 STM2695		Fels-2 pro	2844714
100	1	100 STM0396	sbcD	ATP-deper	449378
100	1	100 STM3138		putative me	3300619
100	0	100 STM3601		putative ph	3773376
100	1	100 STM3696		putative tra	3890132
100	0	100 STM3784		putative ph	3983948
100	1	100 STM2689		pseudogen	2827580
100	0	100	STM0052	putative tra	61106
100	1	100 STM0423	ispA	geranyltran	476516
100	1	100 STM3165	yqhE	2,5-diketo-l	3325406
100	0	52.427 STM2236		putative ph	2336666
100	1	100 STM2157	yehS	putative cy	2253230
100	1	100 STM0938	ybjE	putative inr	1014759
100	1	100 STM3650		putative pe	3836825
100	1	100 STM4338	sugE	putative DM	4581500

100	1	100	STM4439	cybC	cytochrome	4683278
100	1	100	STM3438	rplW	50S riboso	3594642
100	1	100	STM4357	yjeE	putative nu	4599886
100	0	99	STM3285	rbfA	ribosome-t	3452988
100	1	100	STM3200	rfaE	bifunctiona	3362559
100	1	100	STM3128		putative ox	3287509
100	1	100	STM2816		putative gly	2964554
100	1	100	STM4582	slt	lytic mureir	4838999
100	1	100	STM0376	sbmA	putative AE	430359
100	0	100	STM2212	yeiR	putative co	2311509
100	1	100	STM2091	rfbG	LPS side c	2172266
100	1	100	STM2150	stcC	paral putati	2243855
100	1	100	STM1836		putative pe	1933582
100	0	100	aSTM3113			
100	1	100	STM3064	iciA	inhibitor of	3225590
100	1	100	STM0750	ybgF	putative pe	817825
100	1	100	STM0820	rhIE	putative AT	885586
100	1	100	STM3043	dsbC	protein dist	3203688
100	1	100	STM1179	flgG	flagellar bic	1261809
100	1	100	STM0792	ybhB	putative Ph	858260
100	0	59.804	STM0860		putative inr	933178
100	1	100	STM3317	yrbK	putative inr	3482532
100	1	100	STM3764	mgtC	Mg2+ trans	3964488
100	1	100	STM3101	yggT	putative int	3261667
100	1	100	STM1947	uvrY	putative res	2038247
100	1	100	STM3330	gltB	glutamate :	3494523
100	1	100	STM3254		putative fru	3423470
100	1	100	STM3211	rpoD	sigma D (s	3376266
100	1	100	STM1399	sscA	Secretion s	1484521
100	0	64	STM2232	oafA	O-antigen f	2332130
100	0	57.547	STM0763		transcriptio	826492
100	1	100	STM0740	cydA	cytochrome	809529
100	1	100	STM2873	prgI	cell invasio	3016075
100	1	100	STM2799	stpA	DNA-bindir	2947225
100	1	99	STM3727	rpmG	50S riboso	3922038
100	1	100	STM2676	rpsP	30S riboso	2816640
100	1	100	STM0541	ybcJ	putative cy	602488
100	1	100	STM1706	yciH	putative tra	1800261
100	0	100	STM1699	ycjE	putative cy	1791719
100	1	100	STM1966	yedF	putative tra	2055004
100	1	100	STM1592	ydcY	putative cy	1679314
100	0	100	STM3944		putative inr	4150937
100	1	100	STM3910	ppiC	peptidyl-pro	4118944
100	1	100	STM0982	himD	integration	1067620
100	0	85	STM2937	ygbF	putative inr	3078244
100	1	100	STM3675	sgbH	putative 3-l	3862456
100	0	83	STM1358	aroD	3-dehydroc	1439617
100	0	76	STM1351	ydiT	putative fer	1431919
100	0	99	STM3945		pseudogen	4151314
100	1	100	STM4336	ecnB	putative en	4580479
100	1	100	STM4599	yjjY	putative inr	4856182
100	1	100	STM0001	thrL	thr operon	190

100	0	97.03 STM4462	yjgG	putative cy	4705022
100	0	100 STM1722	trpL	trp operon	1818411
100	0	93 STM1281		putative inr	1357613
100	1	99 STM3197	glgS	glycogen b	3359314
100	1	100 STM3293	secG	preprotein	3461852
100	1	100 STM0873	ybjC	putative inr	945507
100	0	98 STM0971		putative cy	1053604
100	0	65 STM0894		Fels-1 pro	963965
100	1	100 STM0719		putative UI	784017
100	0	64.078 PSLT032		putative di	P22257
100	0	60 PSLT093		conjugative	P73239
100	0	62.376 PSLT056		putative cy	P48285
100	0	57.282 PSLT102	traS	conjugative	P82685
100	0	64.356 PSLT080	traK	conjugative	P63899
100	0	63 PSLT008	srgC	sdiA-regul	P03967
100	0	100 aSTM1828			
100	0	63.889 PSLT108	tral	conjugative	P87282
100	1	100 STM0032		putative an	35339
100	0	100 aSTM2043			
100	0	100 aSTM2119			
100	0	99 aSTM2210			
100	0	100 aSTM0966			
100	0	100 aSTM3181			
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89	1	100			
98	0	100 aSTM0946 aSTM1957; aSTM2471; aSTM3032; aSTM3479; aSTM4			
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100	1	100	STM3833		putative mæ 4036632
100	1	100	STM3856	pstC	ABC super 4062490
100	1	100	STM3888	yieP	putative reç 4098947
100	1	100	STM1778	lolB	outer mem 1876024
100	1	100	STM0111	leuC	3-isopropyl 129673
100	1	100	STM0042		putative so 50451
100	1	100	STM0119	yabB	putative cy 139947
100	1	100	STM0150	aroP	APC family 173380
100	0	76	STM0176	stiB	putative fir 207652
100	0	59.813	STM0201		putative ou 236264
100	1	100	STM0238	yaeP	putative cy 280294
100	1	100	STM3346	yhcM	putative AT 3513545
100	1	99	STM3381	yhdT	putative inr 3552034
100	1	100	STM0647	rlpB	a minor lipc 708520
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100	1	100	STM0700	potE	APC family 762063
100	1	100	STM1962	fliT	flagellar bic 2051227
100	1	100	STM1285	yeaG	putative Se 1361828
100	0	100	STM2115	wcaA	putative gly 2197971
100	1	100	STM2718		Fels-2 proç 2860745
100	0	61	STM2750		putative PT 2889221
100	0	60.784	STM2766		putative cy 2907785
100	1	100	STM2792	gabT	4-aminobur 2941597
100	1	100	STM4597		putative pe 4854789
100	0	63.107	STM0284		putative sh 323396
100	0	76	STM2760		putative int 2900439
100	1	100	STM1057	pepN	aminopepti 1144141
100	1	100	STM1495	ynfl	putative co 1572274
100	1	100	STM3452	yheO	putative reç 3603872
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100	1	100	STM3421	rplO	50S riboso 3587366
100	1	100	STM3467	yhfK	putative inr 3616326
100	1	100	STM3500	pckA	phosphoen 3656566
100	1	100	STM1265		putative reç 1347529
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100	1	100	STM1199	yceG	putative pe 1282612
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100	1	100	STM3542	gntK	gluconate l 3711495
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100	1	100	STM4057		putative inr	4267930
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100	1	100	STM4129	trmA	tRNA (urac	4346636
100	1	100	STM2907	pphB	serine/thre	3048771
100	1	100	STM4337	ecnR	putative ba	4580656
100	1	100	STM2391	fadL	transport o	2502389
100	1	100	STM0891	artP	ABC super	961043
100	1	100	STM2472	maeB	paral putati	2579979
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100	1	100	STM4098		putative ary	4306884
100	0	63.725	STM2903		putative cyf	3046317
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100	1	100	STM2953	pyrG	CTP synth	3098745
100	0	58.879	STM0895		Fels-1 prop	964573
100	0	61.468	aSTM0912	aSTM0911		
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100	1	100	STM1470	tus	replication	1545400
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100	1	100	STM2555	glyA	serine hydr	2693681	
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100	1	100	STM4262		putative AE	4499193	
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100	1	100	STM1025		Gifsy-2 pro	1113125	
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100	1	100 STM3929	wecG	putative UI	4138473
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100	1	100 STM1671		putative ba	1764396
100	1	100 STM1542		putative zir	1617320
100	1	100 STM1510	ydfH	putative re	1587986
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100	1	100 STM0339	stbB	putative fir	383580
100	1	100 STM1741		putative vo	1834739
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100	1	100 STM1835	rrmA	23S rRNA	1932707
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100	1	100 STM2831	mltB	membrane	2976975
100	1	100 STM3632		putative PC	3817968
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100	1	100	STM2117	wzb	putative pr	2201056
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100	1	100	STM3712	rfaC	heptosyl tr	3907297
100	1	100	STM3436	rpsS	30S riboso	3593508
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100	1	100	STM3592	yhiP	putative PC	3761614
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100	1	100	STM1485		acid shock	1562058	
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100	0	64.356	STM0919		Fels-1 proç	991786	
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100	0	64.356	PSLT101		traG	conjugative	P79847
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100	0	59.406	STM0332
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100	0	100	STM2720
100	0	58.416	STM0294
100	0	93	STM2768
100	1	100	STM1073
100	1	100	STM1119

invB	surface pre	3037969
adk	adenylate k	546041
cbiH	synthesis c	2105999
uhpC	membrane	3987714
citE2	putative cit	70000
ksgA	S-adenosyl	102663
dnaE	DNA polym	269548
nlp	regulatory f	3474550
rpsI	30S riboso	3512406
	putative nit	3548098
mrdB	rod shape-	700908
gltL	ABC super	726610
gcd	glucose de	198220
ligT	2'-5' RNA li	217751
yaeT	putative ou	262379
ydfI	putative m	1586069
	putative hy	1615333
dgoR	galactonate	4033255
ftsX	putative int	3737027
yjjG	putative ha	4813116
	putative dru	296912
yafH	putative ac	352597
	putative hy	375715
lonH	putative pro	1158495
	Fels-2 pro	2861960
	putative cy	338838
	putative tra	2910681
yccS	putative eff	1163692
wraB	trp-repress	1205223

100	1	100	STM1156	yceA	putative en	1243756
100	1	100	STM3994	mobA	putative mc	4202196
100	1	100	STM1104	hpaF	4-hydroxyp	1191836
100	1	100	STM1138	ycdZ	putative inr	1227456
100	1	100	STM1196	acpP	acyl carrier	1280113
100	1	100	STM1216	mfd	transcriptio	1298895
100	1	100	STM3538	glgB	1,4-alpha-ç	3706095
100	1	100	STM1150	mdoG	periplasmic	1236418
100	1	100	STM3495	yrfF	putative inr	3650187
100	0	63	STM3519	rtcB	putative cyf	3681363
100	1	100	STM1283	yeaJ	putative Me	1358285
100	1	100	STM4012		putative co	4220856
100	1	100	STM4087	glpF	MIP chann	4295871
100	0	57.009	STM4196		putative cyf	4417918
100	0	85	STM4212		putative ph	4433440
100	1	100	STM4268	yjcD	putative xa	4506146
100	1	100	STM4305		putative an	4551958
100	0	75	STM2941	yghJ	putative cyf	3080843
100	1	100	STM0889	artQ	ABC super	959571
100	1	100	STM2415	gltX	glutamate t	2530163
100	0	65.714	STM0917		Fels-1 prop	988336
100	1	100	STM0939	ybjD	homology v	1015860
100	1	100	STM1002		putatiave d	1093858
100	0	61.765	STM4199		putative cyf	4419834
100	0	70.588	STM4110	ptsA	General PT	4324491
100	1	100	STM4290	proP	MFS family	4530970
100	1	100	STM4334	efp	elongation	4579610
100	1	100	STM2383	mepA	murein DD	2493713
100	1	100	STM2423	yfeN	putative ou	2535947
100	1	100	STM2476	ypfG	putative pe	2585921
100	0	100	STM2506	aSTM2505	putative inr	2621211
100	1	100	STM2876	hilA	invasion ge	3019856
100	1	100	STM4351		putative arç	4595404
100	1	100	STM4392	priB	primosoma	4630916
100	1	100	STM2259	napA	periplasmic	2356418
100	0	100	STM4482	idnT	GntP famil	4725793
100	1	100	STM2335	yfbU	putative cyf	2446567
100	1	100	STM2326	nuoC	NADH deh	2436488
100	0	73	STM4534		putative Nt	4792067
100	1	100	STM1954	fliY	putative pe	2043190
100	1	100	STM3443	bfr	bacteriofer	3597374
100	1	100	STM1074	yccF	putative inr	1165864
100	1	100	STM1222	potD	ABC super	1307678
100	1	100	STM2468	eutQ	putative etf	2577356
100	1	100	STM1225	potB	ABC super	1311183
100	1	100	STM1328		putative ou	1407118
100	1	100	STM4371	yjfJ	putative Ph	4614875
100	1	100	STM4405	ytfJ	putative tra	4642501
100	0	75	STM4428		putative pe	4671190
100	1	100	STM1145	csgC	putative cu	1232147
100	1	100	STM1862	pagO	PhoPQ-act	1959507
100	1	100	STM1751	hns	DNA-bindir	1847283

100	1	100	STM1173	flgA	flagellar bic	1257431	
100	0	74	STM2087	rfbV	LPS side c	2167619	
100	1	100	STM3796	ilvB	acetolactat	3995917	
100	1	100	STM3864	atpC	membrane	4073671	
100	1	100	STM2641	nadB	quinolinate	2780428	
100	1	100	STM0243	yaeB	paral putati	284296	
100	1	100	STM0094	djIA	DnaJ like c	108424	
100	1	100	STM2382	yfcA	putative pe	2492904	
100	1	100	STM1344	ydiV	putative Di	1422798	
100	1	100	STM1348	ydiA	putative inr	1426600	
100	1	100	STM0999	ompF	outer mem	1089781	
100	1	100	STM3562	livM	ABC super	3730133	
100	1	100	STM1412	ssaL	Secretion s	1492229	
100	1	100	STM2257	napH	ferredoxin-	2354860	
100	0	99	STM0279	STM0276	putative cy	318679	
100	1	100	STM4556	rsmC	16S rRNA |	4811138	
100	1	100	STM3644	bisC	biotin sulfo	3830320	
100	1	100	STM3257		putative ta	3426829	
100	1	100	STM3281	nlpl	lipoprotein,	3448253	
100	1	100	STM2414	yfeD	putative ne	2529717	
100	0	100		STM2521	yfgM	putative inr	2654237
100	1	100	STM0510	sfbA	putative AE	571112	
100	1	100	STM0606	ybdO	putative tra	668043	
100	0	59.434	STM2603		Gifsy-1 pro	2750893	
100	1	100	STM4576	lplA	lipoate-pro	4831413	
100	1	100	STM3667	yiaJ	transcriptio	3854609	
100	1	100	STM3606	yhjB	putative tra	3779468	
100	1	100	STM3602		putative re	3774529	
100	0	74	STM3277		putative inr	3443318	
100	1	100	STM4457		putative tra	4702512	
100	1	100	STM1379	orf48	putative an	1461740	
100	1	100	STM4293	yjdB	putative int	4534384	
100	1	100	STM1169	mviM	putative vir	1253776	
100	1	100	STM2458	eutB	ethanolami	2567251	
100	1	100	STM4028	yihZ	D-Tyr-tRN/	4238211	
100	1	100	STM0633	lipA	lipoate synt	694862	
100	1	98	STM1420	ssaS	Secretion s	1499388	
100	1	100	STM2035	cbiA	synthesis c	2112422	
100	1	100	STM3699	cysE	serine acet	3894118	
100	1	100	STM0811	ybhN	putative ne	876150	
100	1	100	STM0783	modC	ABC super	847140	
100	1	100	STM1378	pykF	pyruvate ki	1459926	
100	1	100	STM2351	hisP	ABC super	2462131	
100	1	100	STM0113	leuA	2-isopropyl	132167	
100	1	100	STM0209	htrA	periplasmic	244492	
100	1	100	STM0451	hupB	DNA-bindir	508105	
100	1	100	STM3409	trkA	Trk system	3579771	
100	1	100	STM2881	iacP	putative ac	3024412	
100	1	100	STM0546	fimD	outer mem	606048	
100	1	100	STM0729	abrB	putative tra	794771	
100	1	100	STM0739	sucD	succinyl-C	807077	
100	1	100	STM4174	hydG	response r	4389839	

100	1	100 STM3593	yhiQ	putative SA	3763175
100	1	100 STM2040	pduC	Propanedic	2117958
100	0	100 STM2883	sipD	cell invasio	3026755
100	1	100 STM2322	nuoH	NADH deh	2430920
100	1	100 STM3364	yhcP	putative inr	3530000
100	0	100	STM4257; aSTM4258	putative inr	4477857
100	1	100 STM2669	tyrA	bifunctiona	2810344
100	1	100 STM1140	csgF	curli produc	1228885
100	1	100 STM4024	yihV	putative su	4234825
100	1	100 STM4169	yjaG	putative cyf	4385932
100	1	100 STM2846	hycH	processing	2992168
100	1	100 STM4017	yihO	putative Gf	4225770
100	1	100 STM0670	miaB	methylthiol	734487
100	1	100 STM0456	ybaE	putative AE	512430
100	1	100 STM4277	nrfA	nitrite redu	4516104
100	1	100 STM1669		homology t	1761200
100	1	100 STM3383	prmA	methylator	3553729
100	1	100 STM2988	mltA	membrane	3139759
100	1	100 STM2916	ygbL	putative fuc	3058813
100	1	100 STM4058	cpxA	sensory kir	4268376
100	1	100 STM0864	deoR	transcriptio	936744
100	1	99 STM3943	cyaY	putative Fr	4150547
100	1	100 STM3904	ilvD	dihydroxya	4111987
100	1	100 STM0073	caiA	putative ac	85509
100	1	100 STM3902	ilvM	acetolactat	4110619
100	0	100 STM2524	yfgA	paral putati	2657401
100	1	100 STM1814	minC	cell divisior	1912087
100	1	100 STM1730	yciE	putative cyf	1826407
100	1	100 STM2974	fucA	L-fucose-	3125669
100	1	100 STM2936	iap	aminopepti	3075550
100	0	100 STM3963	aSTM3964 yigM	paral putati	4167773
100	1	100 STM3938	hemC	porphobilin	4145049
100	1	100 STM4147	secE	preprotein	4362017
100	1	100 STM1826	sdaA	L-serine de	1923379
100	1	100 STM1771	chaA	CaCA fami	1869253
100	1	100 STM1781	yhcM	putative Su	1878857
100	1	100 STM1832	manZ	Sugar Spe	1930358
100	1	100 STM1874		putative inr	1968666
100	1	100 STM1901	aspS	aspartate tl	1995111
100	1	100 STM0518	gip	glyoxylate	579261
100	0	99 STM0540	ybcI	putative me	601815
100	0	100 STM0567		putative AT	622698
100	1	100 STM1584	ansP	APC family	1670649
100	1	100 STM1618		putative tra	1706567
100	0	100 STM1558		putative gly	1636060
100	1	100 STM1803	dadA	D-amino ac	1902689
100	0	65.049 STM1627		alcohol def	1717673
100	0	100 STM1639	cybB	cytochrom	1729823
100	1	100 STM1667		putative thi	1759693
100	1	100 STM1703	yciR	putative PA	1796542
100	1	100 STM0626	dpiA	response r	689657
100	1	100 STM0985	lpxK	tetraacyldis	1072180

100	1	100	STM0963	serS	serine tRN	1043792
100	1	100	STM3098		putative tra	3259128
100	1	100	STM0458		putative cy	515099
100	0	100	STM3598		putative L-:	3769992
100	1	100	STM3048	ygfZ	putative an	3206918
100	1	100	STM3684	yibF	putative glt	3874183
100	0	99	STM3755	rhuM	putative cyf	3951733
100	1	100	STM3178	ygiY	putative se	3341454
100	1	100	STM2684	recN	protein use	2823264
100	0	100	STM3046	ygfX	putative inr	3206008
100	0	59.804	STM3122		putative an	3280586
100	1	100	STM3585	yhhJ	putative AE	3751834
100	1	100	STM3622	yhjS	putative cyf	3804664
100	1	100	STM3747	yicE	putative NC	3941252
100	1	100	STM2672	yfiN	putative di	2813496
100	0	100	STM2702		Fels-2 pro	2851384
100	1	100	STM3090	metK	methionine	3251693
100	1	100	STM0444	ampG	MFS family	498600
100	0	61.765	STM3595		putative ph	3766164
100	1	100	STM2127	yegN	paral putati	2215525
100	1	100	STM2171	yohF	putative ox	2268002
100	1	99	STM3413	yhdN	putative cyf	3582401
100	1	100	STM0942	ybjZ	putative AE	1019726
100	1	100	STM4388	sgaE	putative L-:	4628953
100	1	100	STM4479	yjgP	putative pe	4722354
100	1	100	STM0931	ybjR	putative an	1005687
100	1	100	STM4367	yjeB	putative ne	4610601
100	1	100	STM3245	tdcA	transcriptio	3412473
100	1	100	STM3147	hybC	hydrogena:	3308787
100	1	100	STM2834	slrB	PTS family	2979851
100	1	100	STM2842	hypF	hydrogena:	2987737
100	0	64	STM0354		putative tra	400860
100	1	100	STM2848	hycF	hydrogena:	2993342
100	1	100	STM2224	rplY	50S riboso	2326433
100	1	99	STM2110	wcaF	putative ac	2193748
100	1	100	STM2199	cirA	outer mem	2296551
100	1	100	STM1772	kdsA	3-deoxy-D-	1870407
100	1	100	STM3094	yggJ	putative cyf	3256140
100	1	100	STM0718		putative cyf	782991
100	1	100	STM0798	uvrB	UvrB with l	864433
100	0	54.902	STM0857		putative ac	928720
100	1	100	STM3324	ptsO	NPr, phosp	3487659
100	1	100	STM3761	sisA	putative inr	3959839
100	1	100	STM0838	ybiT	putative AT	905036
100	1	100	STM3348	degQ	serine end	3515417
100	1	100	STM3260		PTS family	3428898
100	1	100	STM3193		putative thi	3356317
100	1	100	STM2266	apbE	putative thi	2364276
100	1	100	STM0744	ybgC	putative es	813027
100	1	100	STM3300	dacB	D-alanyl-D-	3468654
100	1	100	STM3229	yqjD	putative inr	3396798
100	1	100	STM3649	cspA	major cold	3836439

100	1	100	STM3071		putative DM	3233297
100	0	100	STM0731		putative intr	797197
100	1	100	STM0789	hutC	histidine uti	854047
100	1	100	STM0741	cydB	cytochrome	811113
100	1	100	STM3728	rpmB	50S riboso	3922226
100	1	100	STM2872	prgJ	cell invasio	3015751
100	1	100	STM1413	ssaM	Secretion s	1493303
100	1	100	STM1823	yoaH	putative cyf	1920909
100	1	100	STM0565		putative pe	621810
100	0	100	STM4158		putative cyf	4376683
100	1	100	STM1389	orf319	putative intr	1474128
100	1	100	STM3507	yhgG	putative cyf	3666467
100	1	100	STM4148	nusG	component	4362402
100	1	100	STM3897	yifA	putative tra	4105545
100	1	100	STM3980		putative ou	4186117
100	0	100		aSTM2712; aSTM2713		
100	1	100	STM1590	yncA	putative ac	1678345
100	1	100	STM0102	araA	L-arabinos	118077
100	0	100	STM1465	malX	pseudogen	1538863
100	1	99	STM1248		pseudogen	1333542
100	1	99	STM2880		putative cyf	3024108
100	1	100	STM2796	yqaE	putative Yq	2945700
100	1	98.851	STM0114	leuL	leu operon	133826
100	0	95	STM2698		Fels-2 prop	2849093
100	0	100	STM0707		putative ou	774035
100	0	100	STM1529	aSTM1528	putative intr	1605547
100	1	100	STM3797	ivbL	ilvB operon	3997712
100	1	100	STM3288	yhbC	putative cyf	3457843
100	1	100	STM3294	mrsA	phosphoglu	3462407
100	1	100	STM1022		Gifsy-2 pro	1111509
100	0	59.615	STM1023		Gifsy-2 pro	1112373
100	0	64	STM0947		putative int	1026087
100	1	99	STM0743	ybgE	putative intr	812517
100	0	57.426	PSLT072		putative tra P60129	
100	0	64.423	PSLT110	traX	conjugative P92560	
100	0	57.282	PSLT073	traM	conjugative P61014	
100	1	99	PSLT011	srgA	sdiA-regula P06671	
100	0	73	PSLT009	rcK	resistance P04992	
100	0	65.385	PSLT075	traJ	conjugative P61587	
100	0	98	STM1861		putative cyf	1957835
100	0	100	aSTM0007			
100	0	100	STM1995	ompS1	putative po	2077569
100	0	100	aSTM2097			
100	0	100	aSTM2204			
100	0	100	STM2211	yeiP	putative elc	2310493
100	0	100	aSTM3152			
100	0	100	aSTM3216			
100	0	100	aSTM3241			
100	0	100	aSTM3348			
100	0	62.617	STM1046		Gifsy-2 pro	1131381
100	0					
59.406	1	100				

80	1	100	
61.765	1	100	
89	0	100	
59.813	1	100	
56.436	1	100	
63.462	1	100	
48.544	1	100	
88	1	100	
67.593	1	100	
60.194	1	100	
60.194	1	100	
95	1	100	
93	0	100	
62.5	1	100	
58.333	1	100	
45.545	1	100	
60	1	100	
88	0	100	
74.51	1	100	
100	0	100	aSTM2722
64.078	1	100	
83	1	100	
65.385	0	100	
61	1	100	
67	1	100	
99	1	100	
100	1	100	
61.111	1	100	
75	1	100	

aSTM4525
aSTM2729

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	0				
	0				
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	0				
100	1	100	STM4291	basS	sensory kir 4532639
100	0	56.436	STM3844		pseudogen 4049833
100	1	100	STM3874	gidA	associate v 4081898
100	1	100	STM3320	rpoN	sigma N (s 3484410
100	1	100	STM3181	parE	DNA topois 3343962
100	1	100	STM3304	rplU	50S riboso 3472778
100	1	100	STM0063	citG2	putative mc 72929
100	1	100	STM0134	lpxC	UDP-3-O-a 156935
100	1	100	STM0167	yacC	putative pe 195983
100	1	100	STM0185	yadB	putative glu 215433
100	1	100	STM0222	cdsA	CDP-diglyc 260126
100	0	100	STM1506	rspB	putative de 1583473
100	1	100	STM3369	yhdP	paral putati 3535940
100	1	100	STM0631	ybeM	putative hy 693656
100	0	58.416	STM0655	ybeR	putative cy 718198
100	1	100	STM0687	ybfM	putative ou 749534
100	1	100	STM0714	ybgL	putative lac 780379

100	1	100	STM2398		pgtC	Phosphogl	2510501
100	1	100	STM2101		wcaK	putative ga	2182659
100	0	61.386	STM4575			putative ou	4830411
100	1	100	STM0282			putative ou	321111
100	0	73	STM2758			putative ph	2895879
100	1	99	STM2780			homologue	2926802
100	0	68.317	STM1044		sodC	Gifsy-2 pro	1130053
100	1	100	STM0272			putative AT	311194
100	0	66	STM2752			putative PT	2890110
100	1	100	STM0335			putative ou	378536
100	1	100	STM1088		pipB	Pathogenic	1176450
100	1	100	STM3412		zntR	Zn(II)-respr	3581965
100	1	100	STM3465		yhfA	putative inr	3614933
100	1	100	STM1080		yccW	putative SA	1170746
100	1	100	STM1502		speG	spermidine	1580710
100	1	100	STM3455		slyD	FKBP-type	3606315
100	1	100	STM3492		yrfD	putative pe	3645753
100	1	100	STM1238		icdA	isocitrate d	1324385
100	1	100	STM1279		yeaM	putative re	1356188
100	1	100	STM3457		kefB	CPA2 fami	3607211
100	1	100	STM1209		ycfO	putative gly	1292607
100	1	100	STM1251			putative mc	1335516
100	0	65.094	STM3559		yhhV	putative cy	3728301
100	1	100	STM4045		rhaD	rhamnulos	4255082
100	0	82	STM4210			putative mc	4429581
100	1	100	STM4076		ydeZ	putative AE	4286070
100	0	62.037	STM4107		yijF	putative pe	4321821
100	1	100	STM2860		ygbA	putative cy	3005842
100	0	100	STM2918		ygbJ	3-hydroxyis	3060704
100	1	100	STM2377			putative inr	2487868
100	1	100	STM2410		yfeA	putative Di	2526558
100	0	60.194	STM0900			Fels-1 pro	969999
100	1	100	STM2485		ypfl	putative ac	2599076
100	1	100	STM0957		cydD	ABC super	1033348
100	0	95	STM2588	STM0926	STM1049	Gifsy-1 pro	2734726
100	1	100	STM4082		yiiQ	putative pe	4291145
100	1	100	STM4225		yjbH	putative ou	4443933
100	1	100	STM2913			putative pe	3055549
100	0	86	STM2938			putative cy	3078537
100	0	100		STM0881	ybjO	putative inr	952597
100	0	63.366	STM0903			Fels-1 pro	973404
100	0	67.647	STM0920			Fels-1 pro	992242
100	1	100	STM2525		yfgB	putative Fe	2658697
100	1	100	STM1364		ydiK	putative pe	1445121
100	1	100	STM1937		tyrP	HAAAP far	2030400
100	1	100	STM1994			putative inr	2076620
100	0	60.784	STM4432			putative thi	4675900
100	0	63.462	STM4491			putative AT	4736677
100	1	100	STM4516		yjiN	putative inr	4770684
100	1	100	STM4501			putative cy	4755577
100	1	100	STM2366		accD	acetylCoA	2478690
100	1	100	STM1228			putative pe	1314650

100	1	100	STM1336	rplT	50S riboso	1415020
100	1	100	STM2433	crr	PTS family	2546660
100	1	100	STM1278	yeaN	putative MF	1354903
100	1	100	STM1077	yccT	putative pe	1169077
100	1	100	STM2866	sprB	transcriptio	3010967
100	1	100	STM2269	yojN	putative se	2367308
100	1	100	STM1946	uvrC	UvrC with l	2036418
100	0	60.784	STM2008		putative pe	2088672
100	1	100	STM2264	alkB	DNA repair	2362481
100	1	100	STM1316	celF	phospho-bi	1394944
100	0	52.427	STM1359	ydiB	putative sh	1440420
100	0	100	STM1450	pdxY	pyridoxal ki	1524821
100	1	100	STM1481		putative me	1558798
100	1	100	STM4232	malM	periplasmic	4453601
100	1	100	STM3825	torT	periplasmic	4025332
100	1	100	STM3804	yidG	putative inr	4006384
100	1	100	STM0216	rpsB	30S riboso	254297
100	1	100	STM0372	hemB	5-aminolev	423678
100	1	100	STM0132	ftsA	ATP-bindin	154360
100	1	100	STM2327	nuoB	NADH deh	2438377
100	1	100	STM1721	trpH	trpR contro	1817408
100	1	100	STM3837	dnaN	DNA polym	4042519
100	1	100	STM1392	ssrA	Secretion s	1476836
100	0	100	STM1473	ompN	outer mem	1549676
100	1	100	STM0545	fimC	periplasmic	605325
100	1	100	STM3849	yieE	putative cy	4056350
100	1	100	STM0356		putative inr	401889
100	1	100	STM2644	yfiE	putative tra	2784255
100	1	100	STM3215	yqjI	putative tra	3380158
100	1	100	STM3524	glpG	protein of c	3687300
100	0	100	STM4155		putative inr	4374278
100	0	65.347	STM1055		Gifsy-2 pro	1142566
100	0	61	STM2631	STM1010	Gifsy-1 pro	2770520
100	1	100	STM0593	ybdA	putative PC	653683
100	1	100	STM4381	yjfQ	putative tra	4622946
100	1	100	STM4477	pepA	aminopepti	4720448
100	1	100	STM2650	yfiP	putative cy	2789146
100	1	100	STM3202	ygiF	putative cy	3367001
100	1	100	STM3243	tdcC	HAAAP far	3410034
100	1	100	STM3249	garL	2-Dehydro-	3417369
100	1	100	STM2289		putative 2,	2396040
100	1	100	STM2496	yfgE	putative AT	2609860
100	1	100	STM0486	recR	putative rec	543210
100	1	100	STM0472	maa	maltose o-i	527401
100	0	65.094	STM0573		putative inr	633240
100	1	100	STM4007	glnA	glutamine s	4215599
100	1	100	STM0844	pflE	putative py	913785
100	1	100	STM0738	sucC	succinyl-Cc	805911
100	1	100	STM4006	glnL	sensory kir	4214275
100	1	100	STM2354	hisJ	ABC super	2464491
100	1	100	STM0118	fruR	transcriptio	138337
100	1	100	STM0694	fldA	flavodoxin	757128

100	1	100	STM0735	sdhB	succinate c	800502
100	1	100	STM0228	lpxA	UDP-N-acc	266995
100	1	100	STM2674	trmD	tRNA (guar	2815261
100	1	100	STM4361	hfq	host factor	4604575
100	1	100	STM1777	hemA	glutamyl tR	1874454
100	1	100	STM2500	purN	polyphosph	2614110
100	1	100	STM0846	moeA	molybdopte	915711
100	0	51	STM1240	envF	putative en	1328189
100	1	100	STM4062	pfkA	6-phosphol	4272330
100	1	100	STM0664	gltJ	ABC super	728009
100	1	100	STM3399	yrdA	putative fer	3572482
100	1	100	STM1600		putative inr	1690983
100	1	98	STM2634	aSTM1007	putative cyf	2775045
100	1	100	STM2048	pduM	Propanedic	2124434
100	1	100	STM4286	lpxO	putative dic	4527852
100	1	100	STM1949	yecF	putative cyf	2039367
100	0	100	aSTM4261			
100	1	100	STM3357		putative reg	3525275
100	1	100	STM0010	htgA	positive reg	10092
100	1	100	STM0003	thrB	homoserine	2801
100	1	100	STM1331		putative inr	1409558
100	1	98	STM1872		putative cyf	1968119
100	0	100	STM3264	yraM	paral putati	3433327
100	1	100	STM2475		putative cyf	2585563
100	0	63.462	STM0913		Fels-1 prop	985463
100	1	100	STM2188	mgIC	ABC super	2283938
100	1	100	STM0570	apeE	outer mem	627193
100	1	100	STM0191	fhuA	outer mem	223738
100	0	100	aSTM4261			
100	1	100	STM2325	nuoE	NADH deh	2435985
100	1	100	STM3007	ygdR	putative PC	3165141
100	1	100	STM3985	yigZ	putative cyf	4193020
100	1	100	STM3960	rthB	homoserine	4165129
100	1	100	STM3935	hemY	a late step	4141922
100	1	100	STM4150	rplA	50S riboso	4363537
100	1	100	STM3921	wecC	UDP-N-acc	4130417
100	1	100	STM4137	murB	UDP-N-acc	4356672
100	1	100	STM1972	flil	flagellum-s	2059909
100	1	100	STM2431	ptsH	PTS family	2544586
100	1	100	STM0104	araC	transcriptio	121640
100	1	100	STM2952	eno	enolase	3097364
100	1	100	STM4084	fpr	ferredoxin-	4292377
100	1	100	STM2076	hisA	N-(5'-phosp	2154651
100	1	100	STM3926	wzxE	O-antigen t	4134795
100	1	100	STM4166	yjaD	putative NT	4383331
100	1	100	STM0380	ddlA	D-alanine-l	433543
100	1	100	STM1921	cheA	sensory his	2017178
100	1	100	STM1796	treA	trehalase, p	1895070
100	0	100	STM1624		putative cyf	1713259
100	1	100	STM1658	ydaL	putative Sn	1752842
100	1	100	STM0887	artJ	ABC super	957935
100	1	100	STM0619	citG	putative mc	682406

100	1	100 STM0990	ycbC	putative Kic	1076494
100	1	100 STM3766		putative cy	3966637
100	1	100 STM0602	ybdH	putative gly	663676
100	1	100 STM1719	yciL	putative rib	1815804
100	0	100 STM1570	fdnG	putative mc	1650442
100	1	100 STM1821	yoaA	putative DM	1918518
100	1	100 STM1849		putative inr	1945858
100	0	79 STM1870		Homology f	1966514
100	1	100 STM1897	yebB	putative pe	1992627
100	1	100 STM0482	ybaN	putative ph	539712
100	1	100 STM0524	ybbY	putative tra	585378
100	1	100 STM0557		putative inr	614804
100	1	100 STM1575		putative tra	1658415
100	0	46.078 STM3118		putative ac	3276825
100	0	98 STM2288	aSTM2293	putative cy	2395858
100	1	100 STM2774	iroC	putative AT	2917573
100	1	100 STM3655	glyS	glycine tRN	3839770
100	0	100 STM0747	tolA	tol protein,	814617
100	0	62.5 aSTM4110 STM4111		pseudogen	4326628
100	1	100 STM3175		putative ba	3339316
100	1	100 STM3013	lysA	diaminopir	3172695
100	1	100 STM3078	speB	agmatinas	3239519
100	0	65 STM0438		putative TF	491989
100	1	100 STM2843	hydN	electron tra	2990123
100	1	100 STM3643	yiaC	putative ac	3829911
100	1	100 STM3770		putative ph	3970514
100	1	100 STM2998	ygdB	putative pe	3156404
100	1	100 STM3030		putative pe	3192423
100	1	100 STM3115	yqgA	putative inr	3275333
100	1	100 STM3145	hybE	putative hy	3307812
100	1	100 STM2721		Fels-2 pro	2863059
100	1	100 STM2163	yehX	putative AE	2257962
100	1	100 STM1819	slp	putative ou	1917112
100	1	100 STM3428	rplE	50S riboso	3590160
100	1	100 STM3550		putative ph	3719383
100	1	100 STM3296	hflB	ATP-deper	3464690
100	1	100 STM3208	gcp	putative O-	3372814
100	1	100 STM3548		putative cy	3717600
100	1	100 STM3310	yrbC	putative AE	3476946
100	1	100 STM4507	uxuR	transcriptio	4761052
100	1	100 STM4323	dsbD	thiol:disulf	4567382
100	1	100 STM0374	yaiV	putative inr	428187
100	1	100 STM2143	yegU	putative gly	2237539
100	1	100 STM2836	gutM	putative glu	2981080
100	1	100 STM2155	metG	methionine	2249739
100	1	100 STM2221	bcr	MFS family	2322483
100	0	100	STM2244; aSTM0926	homolog of	2345014
100	1	100 STM2168	pbpG	D-alanyl-D-	2265525
100	1	100 STM0259	yafE	putative mc	299097
100	1	99 STM1407	ssaH	Secretion s	1489793
100	1	100 STM0733	sdhD	succinate c	798375
100	0	100 STM0810		putative inr	875587

100	1	100	STM2678	corE	putative cy	2818729
100	0	100		STM3271 yhbQ	putative cy	3438731
100	1	100	STM3227	yqjB	putative ou	3395860
100	1	100	STM0851	yliD	putative AE	922527
100	1	100	STM1385	ttrB	Tetrathion	1470433
100	1	100	STM3233	yqjG	putative glt	3398498
100	1	100	STM3155		putative cy	3317655
100	0	100	STM3045	fldB	flavodoxin	3205434
100	1	100	STM0760	aroG	3-deoxy-D-	823772
100	1	100	STM1183	flgK	flagellar bic	1265468
100	1	100	STM1915	cheZ	chemotacti	2011628
100	1	100	STM3129		putative N/	3288972
100	1	100	STM1113	scsA	Suppressic	1200154
100	1	100	STM0749	pal	tol protein	817291
100	1	100	STM0796	bioC	biotin biosy	862348
100	1	100	STM0599	ybdB	putative pro	660679
100	1	100	STM2537	yfhJ	believed to	2677648
100	1	100	STM2481	acrD	RND family	2593647
100	1	100	STM2826	csrA	carbon stoi	2970951
100	0	64.423	STM1037		Gifsy-2 pro	1123997
100	0	63.208	STM4219		putative cy	4438132
100	1	100	STM3741	rpoZ	RNA polym	3933776
100	1	100	STM3686	mtlD	mannitol-1-	3877404
100	1	100	STM4252		putative inr	4472301
100	0	75	STM4209		putative inr	4429372
100	1	99	STM2139		putative inr	2233116
100	0	93	STM2733		Fels-2 prop	2874070
100	1	100	STM3621	yhjR	putative cy	3804216
100	1	100	STM0273		putative cy	313933
100	0	67	STM1350	ydiD	homologue	1430189
100	1	100	STM0563		putative tra	619258
100	0	62.963	STM1362	ydiL	putative cy	1444304
100	1	100	STM1563	osmC	putative res	1644237
100	1	100	STM0044	yaaY	putative cy	52649
100	0	63.107	STM3829	dgoK	2-oxo-3-de	4032380
100	1	100	STM3820		putative cy	4018596
100	0	100	STM0099		putative inr	116299
100	0	96.667	STM1794		putative pe	1893098
100	1	100	STM2542	nifU	NifU homol	2681123
100	1	100	STM3266	yraO	putative ph	3435744
100	0	62.136	STM2607		Gifsy-1 pro	2755399
100	1	100	STM0875	rimK	ribosomal p	946561
100	1	100	STM0943	cspD	similar to C	1021802
100	1	100	STM1006		Gifsy-2 pro	1099565
100	1	100	STM0805	moaD	molybdopte	872636
100	0	60.87	PSLT085	traR	conjugative	P67516
100	0	63	PSLT021	aPSLT022	pseudogen	P15921
100	0	66.019	PSLT094	trbC	conjugative	P73532
100	0	60	PSLT078	traL	conjugative	P63013
100	0	67.327	PSLT016	pefD	plasmid-en	P10248
100	0	56.436	PSLT015	orf5	putative ou	P09676
100	0	63.366	PSLT066	ssbB	single-strar	P54401

im in the respective genome
 presented by an alternative spot
 tter represented by an alternative spot
 better represented by an alternative spot

GENE_EN	LT2_GENE	STRAND	BEST_HIT_%ID	2ND_BEST%ID	BEST_HIT_%ID	
2056322	atggcagca	-	STM1968	100	STM1968	100
3335879	atgcattcag	-	STM3172	100	STM3172	100
2102700	atgaccgggc	-	STM2021	100	STM0713	61.765
100640	atggatagcc	+	STM0086	100	STM0492	89
165096	atgcgtattga	+	STM0141	100	STM2511	64
151024	atgagtggtc	+	STM0128	100	STM2252	60
191153	atgaacatca	+	STM0161	100	STM0651	77
213877	atgacgatcg	-	STM0183	100	STM0281	61.682
253846	atggctatctc	-	STM0215	100	STM2323	60
288054	atgattaaact	-	STM0247	100	STM0828	73
1608915	gtgcaaagat	-	STM1532	100	STM3744	63.366
747210	atgaatatttta	+	STM0685	100	STM1203	74
778791	atgaaaaac	+	STM0711	100	STM0711	100
4702396	atgctaaaaa	+	STM4456	100	STM3763	78
2110823	atgagcgagc	-	STM2032	100	STM4275	63.303
2081582	atggaattttc	-	STM1998	100	PSLT055	66
1098033	atgacacaat	-	STM1004	100	STM1115	62.264
4048071	atggattcgc	+	STM3842	100	STM3373	62.376
4077975	atgcaactga	-	STM3867	100	STM3867	100
60148	atgggcaaa	+	STM0050	100	STM0050	98.28
116097	atgaaatattc	-	STM0098	100	STM0098	100
3504358	atgcagaac	+	STM3334	100	STM0525	74.286
3541316	atgacggctg	-	STM3370	100	STM1185	76
1185708	atgcaagtag	-	STM1098	100	STM3796A	61.386
1220620	atggggatgc	+	STM1130	100	STM0557	58.333
1253774	atgaaatattg	+	STM1168	100	STM4127	65.347
3669379	atgctaacag	+	STM3510	100	STM0760	74
3697935	atgactcaga	+	STM3532	100	STM1469	62.264
3740221	atggcaaaa	-	STM3571	100	STM2677	64
1273989	atgctcatt	+	STM1188	100	STM3647	59
3679605	atgttgattcc	+	STM3515	100	STM1057	62.136
3701359	atgaatgctc	-	STM3534	100	STM3514	76
3741202	atgatgtgatt	+	STM3573	100	STM3006	67
4823656	gtgtttctcgc	+	STM4568	100	STM4568	100
2866841	atgagtgaac	+	STM2723	100	STM0977	63.107
3726297	atgcatcatc	-	STM3556	100	STM3555	63
4806842	atgctgccag	+	STM4547	100	STM3011	62.376
4844922	atgcagcaac	+	STM4588	100	STM2131	72
2876811	atgagtttaatt	+	STM2738	100	STM3280	57.143
2894320	atgaaattac	-	STM2755	100	STM4386	66.667

2923547	atgtatggtcg +	STM2776	100	STM1063	82	STM2776	100
4316641	atgccgcctci -	STM4103	100	STM3296	63.366	STM4103	100
3003483	atgcaacagt +	STM2858	100	STM2829	60.396	STM2858	100
3069239	atgcgcatatt -	STM2927	100	STM1033	62.5	STM2927	100
954243	atgcagtgcg +	STM0882	100	STM2957	63.551	STM0882	100
974766	atgccaggat -	STM0904	100	STM0750	58.333	STM0904	100
2604921	atgttcacggc -	STM2489	100	STM3265	63.889	STM2489	100
968606	atgtttgtgaa -	STM0898	100	STM0731	61.165	STM0898	100
		STM2479	100	STM3331	82	STM2479	100
1030876	atgttttcggc -	STM0954	100	STM0953	73	STM0954	100
1070398	atgaagataa +	STM0983	100	STM0261	60	STM0983	100
1120742	atggaagag +	STM1032	100	STM0911	87	STM1032	100
4288122	atggcaaga +	STM4077	100	STM1692	63.107	STM4077	100
4337904	atgaacgaa -	STM4119	100	STM3042	62.136	STM4119	100
4559077	atgctgttacg +	STM4310	100	PSLT007	65	STM4310	100
949497	atgaccgcct +	STM0877	100	STM1222	65.686	STM0877	99.73
981676	atgacgggg +	STM0910	100	STM1031	86	STM0910	100
2657374	atgcataacc -	STM2523	100	STM0738	62	STM2523	100
2690948	atgaagcca -	STM2552	100	STM2342	94	STM2552	95.52
1043533	gtgagcaatc +	STM0962	100	STM3604	62.376	STM0962	100
2721652	atgaatatca +	STM2575	100	STM3753	66	STM2575	100
2075759	atgcaggaa -	STM1992	100	STM2481	71	STM1992	100
2370644	atgaacaata +	STM2270	100	STM2146	62.727	STM2270	100
4768620	tgtctttttacc -	STM4514	100	STM3282	54.369	STM4514	100
1196318	atgtgccaac +	STM1108	100	STM2493	86	STM1108	100
2458962	atggtggaac -	STM2346	100	STM0685	54.369	STM2346	100
2045466	atgaattcact -	STM1956	100	STM2248	72	STM1956	100
231217	atgaatacag +	STM0195	100	STM0964	91	STM0195	100
1252270	atgtcgcgcg -	STM1166	100	STM0426	59.223	STM1166	100
1451888	atggtgttac -	STM1368	100	STM1320	72	STM1368	100
4619529	atgctacgac +	STM4376	100	STM3188	71	STM4376	100
3008103	atgagtcaat +	STM2862	100	STM2351	72.277	STM2862	100
1526345	atgaaactgt -	STM1451	100	STM3827	61.386	STM1451	100
2071865	atgcaaaatt -	STM1988	100			STM1988	100
2147191	atgaccatgt -	STM2068	100	STM1379	64	STM2068	100
		STM2293	100	STM2288	96	STM2293	100
2439498	atgagtatgtc -	STM2328	100			STM2328	100
4684280	gtgagacgc +	STM4440	100	STM1690	60.784	STM4440	100
4731601	atggcgcttac +	STM4488	100	STM3844	56	STM4488	100
4760702	atgataaaaag -	STM4506	100	STM2466	55.769	STM4506	100
2483491	gtgaaaattct -	STM2370	100	STM3062	66	STM2370	90.89
1342533	atgctctataa +	STM1257	100	STM0463	66.337	STM1257	100
1557224	atgcgaattg +	STM1479	100	STM2816	68	STM1479	100
362430	gtgtctgaact -	STM0316	100	STM1752	59.406	STM0316	100
194171	atgaaaggaa +	STM0164	100	STM2837	61.765	STM0164	100
250113	atgcagcagt -	STM0213	100	STM1971	63.303	STM0213	100
153531	atggctgata +	STM0130	100			STM0130	100
1383420	atgtctctgtc +	STM1303	100	STM3468	82	STM1303	100
1419064	atgaaattca +	STM1338	100	STM3280	62.617	STM1338	100
1435273	atgaaaataa -	STM1354	100	STM0075	73.267	STM1354	100
2241061	atgcaacgaa -	STM2146	100	STM1723	64.815	STM2146	100
1547706	atgaaaaagi -	STM1471	100	STM3178	64.706	STM1471	100

1498676 atgtaagaal +	STM1418	100		STM1418	100
4073441 atgctattcaç -	STM3863	100	STM3660	58.824 STM3863	100
321114 atgagctgga +	STM0281	100	STM0183	61.765 STM0281	100
257705 gtgattagcg; +	STM0219	100	STM1770	58.416 STM0219	100
2068050 atgtcaacga +	STM1982	100	STM1409	60.377 STM1982	100
2517243 atggctgactt -	STM2402	100	STM2073	70 STM2402	100
2427347 atgttattaccr -	STM2317	100	STM2318	69 STM2317	100
1430148 atgtccaaca +	STM1349	100	STM4343	63.725 STM1349	100
3015754 atgattcgctg -	STM2871	100	STM1409	56.075 STM2871	100
2555425 atgctgcccgt -	STM2443	100	STM2442	66.337 STM2443	100
563929 atgaacgagr +	STM0503	100	STM0852	57.843 STM0503	100
4210982 atgaaaaaa +	STM4003	100	STM3645	64 STM4003	100
4593546 ttgttaaactç -	STM4348	100	STM4524	64.706 STM4348	100
2758033 atgaacgtga -	STM2609	100	STM4489	60.194 STM2609	100
3347737 atgaagcgtt; -	STM3184	100	STM1467	75 STM3184	100
3725413 atgatagaga -	STM3555	100	STM3556	88 STM3555	100
3460266 ttgcataaaa; +	STM3290	100	STM1885	66.667 STM3290	100
2461060 atgattgacct +	STM2349	100	STM3140	63.725 STM2349	100
573647 gtggatgattt; +	STM0512	100	STM0246	66.667 STM0512	100
4633712 atgcccgggç -	STM4396	100	STM0960	59 STM4396	100
4725729 atgaggaatç -	STM4481	100	STM1527	66.038 STM4481	100
2944410 atggggcaat +	STM2793	100	STM1584	71.569 STM2793	100
4765974 atggatgtaa; -	STM4511	100	STM0764	61.765 STM4511	100
4852778 atgaaacacç -	STM4594	100	STM0176	75 STM4594	100
3843201 atgataatga; -	STM3657	100		STM3657	100
3422271 gtggcaaaa; -	STM3252	100		STM3252	100
3444726 atgagtgaac +	STM3278	100		STM3278	100
4321763 atgagcacgç; +	STM4106	100	STM0638	56.863 STM4106	100
1922533 atgatgaaga +	STM1824	100		STM1824	100
610210 atgatccttcg +	STM0548	100	STM0291	58.416 STM0548	100
4238214 atgctaaaaa +	STM4027	100	STM1796	61.165 STM4027	100
693565 gtgttacagct -	STM0630	100	STM4188	59 STM0630	100
3578408 gtgtcagattc +	STM3407	100	STM4513	58.654 STM3407	100
1331439 atgaaacatç -	STM1244	100	STM0357	92 STM1244	100
4346214 gtgatgggtgl +	STM4127	100	STM1168	63.889 STM4127	100
753865 atgaaacagr; -	STM0690	100	STM3711	58.879 STM0690	100
798381 atgataagaa +	STM0732	100	STM0530	61.538 STM0732	96.3
1062563 atggctcagg +	STM0977	100	STM2723	63.725 STM0977	100
641512 atgctgacatç -	STM0584	100	STM0985	59.406 STM0584	100
3626381 atgagtcagtt; +	STM3475	100	STM0282	60.194 STM3475	100
4380491 atgtatcagcç -	STM4163	100	STM2540	64.078 STM4163	100
3733502 atgaaacggç; -	STM3564	100	STM3567	88 STM3564	100
2926408 ggtatagcac +	STM2778	100	STM2779	100 STM2778	100
1713210 atgttgaatcc -	STM1623	100		STM1623	100
1257339 atgagcattgç; -	STM1172	100	STM3009	65.385 STM1172	100
3547985 atgcaggcgt +	STM3376	100	STM1827	61.682 STM3376	100
38674 atggtttatatç -	STM0033	100	STM4104	77 STM0033	100
95465 atgctcccgg +	STM0083	100	STM3953	60 STM0083	100
1335364 ttgttctggtg +	STM1250	100	STM4261	55 STM1250	100
4232847 atgaaatggtl; -	STM4021	100		STM4021	100
3521821 atgaccattgç; -	STM0055	100	STM0767	100 STM3352	100
28424 atgcgtaatç; +	STM0023	100	STM4593	78 STM0023	100

2122685 atgcgatata+	STM2043	100 STM0326	85 STM2043	100
4547011 atgtcgaaaa-	STM4300	100 STM1468	92 STM4300	100
2025499 gtggcagaa-	STM1929	100 STM2994	75.728 STM1929	89.04
2618549 atgccaattta+	STM2502	100 STM3913	68.317 STM2502	100
4501818 atggctgcca-	STM4263	100 STM2175	63.303 STM4263	100
2813503 atgcgttttct+	STM2671	100 STM2450	49.505 STM2671	100
72951 atgaagggc+	STM0062	100 STM0620	66 STM0062	100
4000873 atgaaaagga+	STM3798	100 STM3799	74 STM3798	100
4178046 atgggtggaag+	STM3970	100 STM3348	73 STM3970	100
4160028 atgcctcccc-	STM3954	100 STM2874	52.475 STM3954	100
2167299 atgatcgtaa-	STM2086	100 STM0284	62.5 STM2086	100
2505748 atggatagcc+	STM2393	100 STM4271	64.706 STM2393	99.89
1913900 atggcattact+	STM1816	100 STM4199	61.111 STM1816	100
1831200 atgacaaca-	STM1736	100 STM3567	58.491 STM1736	100
3135189 atgtcaaac-	STM2982	100 STM0888	63.107 STM2982	100
3057992 atgcagattat-	STM2914	100 STM0122	65.714 STM2914	100
4306683 atgaaaaatc-	STM4097	100	STM4097	100
637681 atggatattct-	STM0578	100	STM0578	100
4300481 atgtctgaaat-	STM4091	100 STM3571	68 STM4091	100
2130091 atgagcacc+	STM2053	100 STM1457	63 STM2053	99.93
4162492 atgcggggcg+	STM3957	100 STM0145	50.485 STM3957	100
4138476 atgagtttaat+	STM3928	100 STM3851	65.049 STM3928	100
1346487 gtgattcattta+	STM1263	100 STM1033	55.446 STM1263	100
3188470 atgaaaaac-	STM3027	100 PSLT016	69.159 STM3027	100
3115525 atggcggaa-	STM2963	100 STM2051	62.136 STM2963	100
484068 atgaaatctat-	STM0430	100 STM2853	60.377 STM0430	100
4181310 gtgtttgatatc+	STM3974	100 STM0309	64.356 STM3974	100
577382 atgacggaa+	STM0516	100 STM4187	65.686 STM0516	96.13
635170 atgagtgaag-	STM0574	100 STM3769	72 STM0574	100
621653 atgacacagt+	STM0564	100 STM3596	63.725 STM0564	100
663379 atgaataaat+	STM0600	100 STM4532	89 STM0600	100
1704518 atgtttgattac+	STM1614	100 STM3260	70.192 STM1614	100
1634732 atgagtgcatt+	STM1556	100 STM2023	60 STM1556	100
1689818 atgaaaaaal-	STM1598	100 STM2803	68 STM1598	100
1724652 atgttatccaa+	STM1633	100 STM1954	55.66 STM1633	100
1726062 atggctttact+	STM1635	100 STM1951	72 STM1635	100
1990064 atgatagaag-	STM1894	100	STM1894	100
552026 atgcatcacg-	STM0492	100 STM0086	89 STM0492	100
691776 atgctaacag-	STM0627	100 STM4052	83 STM0627	100
3970517 atgatgagca-	STM3769	100 STM0574	72 STM3769	100
666051 atgagaaata+	STM0603	100 STM1307	63.366 STM0603	100
659050 atgcgtatac+	STM0596	100 STM1350	67.327 STM0596	100
2877840 atgagcatca+	STM2739	100 STM0981	87 STM2739	100
1846620 atggcacagc-	STM1750	100 STM2975	59.434 STM1750	100
1686217 atgacaaaar+	STM1595	100 STM3247	63.107 STM1595	100
1735236 atgactgaac-	STM1641	100 STM0189	73 STM1641	100
1761179 gtgcgtatgtc-	STM1668	100 STM2087	72.277 STM1668	100
4630443 gtgtggcaaaa+	STM4390	100	STM4390	100
2804689 atgcgtctgg-	STM2660	100 STM0272	73.267 STM2660	100
3185043 atgggtgaat+	STM3024	100 STM2063	74 STM3024	100
435428 atgtttatggg+	STM0381	100 STM0239	61.905 STM0381	100
3278702 atgaacacgt-	STM3119	100 STM0255	61.905 STM3119	100

516725 atgttagataa +	STM0459	100	STM0046	61.386	STM0459	100
3258665 atgaatttaca +	STM3096	100			STM3096	100
3887567 atgaacctctc +	STM3692	100			STM3692	100
4009188 atgagtgatai -	STM3807	100	STM1555	63.107	STM3807	100
3146111 atgacaatcc -	STM2993	100	STM2868	62.385	STM2993	100
3191000 atgaaaattar -	STM3028	100	STM0196	66	STM3028	100
458675 atggctactggt -	STM0402	100	STM0608	70	STM0402	100
3787351 atgataaagc -	STM3611	100	STM2106	55.66	STM3611	100
3838221 gtgggacgtg -	STM3651	100	STM1257	62.5	STM3651	100
3872696 atgattattgc -	STM3682	100			STM3682	100
3923345 atggatacgtt -	STM3729	100	STM2745	63.81	STM3729	100
3971894 atggccaata -	STM3771	100	STM1830	63.366	STM3771	100
770278 atgacggttt -	STM0704	100	STM2556	60.377	STM0704	100
4818753 gtgagctggc +	STM4564	100	STM1202	65.385	STM4564	100
2961651 atggatagttc +	STM2813	100	STM0524	89	STM2813	100
2224540 atgaaagtctc +	STM2130	100	STM0703	70	STM2130	100
2318024 atgattgccc +	STM2216	100	STM3647	62.264	STM2216	100
2182662 atgaaagtca -	STM2100	100			STM2100	100
2260992 atgacgatctc -	STM2165	100	STM0650	61.538	STM2165	100
2295152 atgagcattat +	STM2197	100	STM4578	82	STM2197	100
2331464 atgaagcagc -	STM2230	100	STM2753	59	STM2230	100
2274333 atgaccaaat -	STM2177	100	STM1101	68	STM2177	100
1009056 gtggcgcaac -	STM0933	100	STM3010	64	STM0933	100
3829933 atgcagcgttc +	STM3642	100			STM3642	100
3717584 atgaaatttga +	STM3547	100	STM1382	69.307	STM3547	100
3857113 atgatttttga +	STM3669	100	STM3637	65	STM3669	100
3748219 atgccaattt +	STM3580	100	STM2909	65	STM3580	100
3509012 atggcaaaa -	STM3339	100	STM1345	61.538	STM3339	100
3403325 atgtttgaatct -	STM3238	100	STM4272	60.784	STM3238	100
3306074 atgcgaatac -	STM3141	100	STM1772	65.094	STM3141	100
2998981 gtgaatcgtttt -	STM2852	100	STM2843	71	STM2852	100
3369158 atgcaaaaat +	STM3203	100	STM2660	72.816	STM3203	100
1487054 atggaagcgc +	STM1401	100	STM0763	62.745	STM1401	100
1203071 atgaaataca +	STM1115	100	STM1004	62.5	STM1115	100
829818 ttgttggttttag +	STM0765	100	STM3356	61.765	STM0765	100
902744 atgggtcgtcc +	STM0835	100	STM3274	48	STM0835	100
1473722 atggcgacaac +	STM1387	100	STM4174	88	STM1387	100
837115 atggctgtaac -	STM0772	100	STM0272	75	STM0772	100
881965 atgagtaagtr -	STM0816	100	STM3586	65.347	STM0816	100
934630 atggctaaag +	STM0861	100	STM1380	52.427	STM0861	100
3482535 atgagtaaag +	STM3316	100	STM0175	68.807	STM3316	100
2061744 atggcacaac +	STM1973	100	STM2206	62.037	STM1973	100
3305296 atggcagata +	STM3140	100	STM2349	63.366	STM3140	100
875579 ttggtgatgat +	STM0809	100	STM4076	60.577	STM0809	100
928426 atggctcttta +	STM0856	100	STM1353	69	STM0856	100
4665445 atggaacaac -	STM4421	100	STM2791	62.385	STM4421	100
4684653 atggaacagc +	STM4441	100			STM4441	100
489704 atgacgccaac -	STM0436	100			STM0436	98.47
4665763 atgaaacaac -	STM4422	100	STM1785	57.692	STM4422	100
663640 atgttcgatac +	STM0601	100	STM4531	77	STM0601	100
582659 atgcgtgaaa +	STM0521	100	STM0522	94	STM0521	100
614417 atgagcggta -	STM0556	100			STM0556	100

639357	atgaccatttc +	STM0581	100	STM1519	66.337	STM0581	100
639611	atgaaacac -	STM0582	100	STM0431	60.577	STM0582	100
1887736	atgagtaacc +	STM1787	100	STM1538	80	STM1787	100
377845	atgacgttaa -	STM0334	100	STM0333	74	STM0334	100
2621717	atgtacttaga -	STM2507	100	STM0981	56	STM2507	100
2385182	atgggacgc +	STM2279	100	STM0936	58	STM2279	100
3314239	atgaataatc -	STM3151	100	STM1631	57.282	STM3151	100
956219	atgaaagatt +	STM0885	100	STM4130	50.495	STM0885	100
677800	atgtataaga -	STM0614	100	STM0935	73	STM0614	100
3979460	atgtcagcaa +	STM3778	100	STM0513	62.264	STM3778	100
3903907	atgaaagcgt -	STM3708	100	STM1082	64.356	STM3708	100
3979820	atgattagac -	STM3779	100	STM1474	51	STM3779	100
4009806	atgcgtaact -	STM3808	100	STM2494	66.981	STM3808	100
4010971	gtgatgataa +	STM3810	100	STM0168	57.143	STM3810	100
3680231	atggctgcaa -	STM3517	100			STM3517	100
1206274	atgcaatatg +	STM1120	100	STM1121	71	STM1120	100
4280152	gtgatacgcc +	STM4070	100	STM4064	87	STM4070	100
4342984	cagaggctcc +	STM4124	100	STM0912	30	STM4124	100
4776066	atggttgctg -	STM4520	100	STM4355	53.465	STM4520	100
524539	gggctctgtt +	STM0467	100	STM1057	46	STM0467	100
1538853	atgttcgatttt -	STM1464	100	STM1223	65.094	STM1464	100
890722	atgaaaacc -	STM0823	100	STM3361	69.231	STM0823	100
712285	atggcacgcc +	STM0649	100	STM3103	60.952	STM0649	100
2029151	atgaagcctc +	STM1934	100	STM4261	88	STM1934	100
2462079	atgcagattct +	STM2350	100			STM2350	100
P37321	atggcacttta -	PSLT045	100	STM0416	61.682	PSLT045	100
P41287	atgaagcca +	PSLT049	100	PSLT050	100	PSLT049	100
P62594	atgttaattaa +	PSLT076	100	STM2746	60.194	PSLT076	100
P21431	atgacacggt +	PSLT030	100	STM3135	71	PSLT030	100
P39411	atgccgcag -	PSLT047	100	STM2610	59	PSLT047	100
P50387	atgaactattc +	PSLT060	100	STM3427	63.303	PSLT060	100
P15764	ctggaaggca +	PSLT020	100	STM3176	67	PSLT020	67.57
R18046	-	STM1818	63.725	STM2126	56.364	STM2126	2.92
		STM0326	100	STM2043	72	STM0326	100
2401661	atgctaatagt -	STM2293	100	STM0593	71.287	STM2293	100
		STM2354	100	STM2355	77	STM2354	100
		STM2421	100	STM3113	72.549	STM2421	100
		STM2474	100	STM3076	85	STM2474	100
		STM2481	100	STM0475	87	STM2481	100
		STM0066	100	STM1976	60.577	STM0066	95.6
		STM4547	46.078	PSLT075	44.34	STM4547	9.45
		STM0459	57			STM0459	21.28
		STM0821	61.165	STM0108	59.804	STM0821	17.84
		STM1141	60.194			STM1141	13.6
		STM0296	100	STM0573	58	STM0296	75.16
		STM0747	100	STM0450	66.038	STM0747	73.25
		STM1019	100	STM2621	100	STM1019	95
		STM2235	60.377	STM0407	57.282	STM2235	37.75
		STM3683	60.784			STM3683	10.52
		STM0437	100	STM0438	65.347	STM0437	95.1

	STM3275	61	STM2862	60.194	STM2862	17.95
	PSLT023	61			PSLT023	7.42
	STM0268	57.843			STM0268	9.35
	STM0199	66	STM1533	49.505	STM0199	53.28
	STM2238	59.615	STM4499	57.426	STM4499	15.59
	STM0103	61.165			STM0103	24.83
	STM3709	62.136			STM3709	6.53
	STM2097	62.037	STM0356	59.259	STM0356	13.37
	STM2178	50			STM2178	23.48
	STM2087	58			STM2087	22.64
	STM3691	64.078	STM0301	63	STM0301	9.03
	STM2710	100	STM3478	63.107	STM2710	97.6
	STM4246	78.431	STM3724	61.765	STM4246	15.66
	STM0521	63.462	STM1283	60.784	STM0521	21.14
	STM0293	64.151			STM0293	6.83
	PSLT013	93	STM1584	71	PSLT013	86.4
	PSLT021	61.165	STM2532	50.943	PSLT021	12.27
	STM1855	80			STM1855	70.4
	STM4500	87	STM2414	64.706	STM4500	73.95
	STM3705	52.83	STM3330	39	STM3705	12.45
4012199 atgaaacaa:-	STM3811	100			STM3811	96.69
4035050 atggctattaa-	STM3831	100	STM4010	68	STM3831	100
4061513 atgagtatggl-	STM3854	100	STM0428	73	STM3854	100
3991144 atgatcaccg-	STM3790	100	STM2246	62	STM3790	100
3472371 atgaagcag:-	STM3302	100	STM2581	61.538	STM3302	100
3506466 atgctgttact-	STM3337	100	STM1129	79	STM3337	100
3483630 atgaaattca:+	STM3318	100	STM3146	61.386	STM3318	100
3525064 atggaaccce-	STM3356	100	STM2333	62.745	STM3356	100
3560690 atggcgaag:-	STM3389	100	STM0477	78	STM3389	100
714477 atgaaaatta:+	STM0651	100	STM0161	77	STM0651	100
744071 atgtatgcttta-	STM0683	100	STM0054	68	STM0683	100
772335 atgagtcgca-	STM0705	100	STM0498	74	STM0705	100
1596731 atgatgtcgcc+	STM1517	100			STM1517	100
3826643 atgacatgga-	STM3638	100	STM0023	83	STM3638	100
4046201 gtggtaagct+	STM3840	100	STM4477	63.366	STM3840	100
4067032 atgacaaag:-	STM3859	100	STM3183	62.376	STM3859	100
11245 atgcatctgt-	STM0011	100	STM1427	66	STM0011	100
1332808 atgaaaaata+	STM1246	100	PSLT009	73	STM1246	100
2780003 atgagcgag:-	STM2640	100	STM4247	58.654	STM2640	100
4096540 atgaaaaccç+	STM3885	100	STM3793	63.725	STM3885	100
80943 atgtgtgaaa:+	STM0068	100	STM3242	56	STM0068	98.51
143492 atgaaagcaç+	STM0122	100	STM1836	79	STM0122	100
185468 atgacgttgc-	STM0157	100	STM0157	65.385	STM0157	100
3557528 atgaaagcç+	STM3386	100	STM3214	62.385	STM3386	100
1569671 atgataaac-	STM1491	100	STM2163	77	STM1491	100
3603122 atgctgcatac-	STM3449	100	STM1974	58.654	STM3449	100
1285266 atgaaatggt:+	STM1201	100	STM0484	63.366	STM1201	100
1317145 atggaatacc-	STM1229	100	STM3407	64.423	STM1229	100
1353387 atgggcattct+	STM1274	100	STM1797	69	STM1274	100

2185439 atgagtttacg -	STM2102	100	STM2102	100
3644451 atgaagcgat -	STM3488	100 STM3489	86 STM3488	100
1323210 atgttcaagc -	STM1235	100 STM1301	58.879 STM1235	100
1354451 atgtttcagtta +	STM1276	100	STM1276	100
2189943 atgataatgc -	STM2105	100 STM2084	72 STM2105	100
2227446 atgttctggatt +	STM2134	100 STM2043	54.369 STM2134	100
2885570 atgaaacgc +	STM2745	100 STM3776	56.863 STM2745	100
1369688 atgactatca -	STM1290	100 STM2558	66.038 STM1290	100
2211520 atgagtaaac +	STM2123	100 STM3388	83.168 STM2123	100
9319 atggatacct +	STM0008	100 STM0803	71.287 STM0008	100
328931 gtgaaaaagi +	STM0287	100 STM0757	62.037 STM0287	100
360206 atgggcaatt +	STM0314	100 STM3937	64.545 STM0314	100
1132720 atggcaacgc +	STM1046	100 STM1047	100 STM1047	100
4331111 atgaccatc +	STM4114	100 STM0843	60.748 STM4114	100
4522054 ttgcataatct +	STM4281	100 STM2249	85 STM4281	100
3080104 gtgtatctct -	STM2939	100 STM2643	62.745 STM2939	100
2520368 atgttccacc +	STM2404	100 STM1049	65.686 STM2404	100
2559708 atgaagagta -	STM2448	100 PSLT104	63.462 STM2448	100
1004271 atgggtatcc -	STM0929	100 STM3429	60.194 STM0929	100
977156 atgaaaatgc +	STM0906	100 STM2237	68 STM0906	100
	STM0922	100 STM0923	100 STM0923	100
2665318 atgggttttati -	STM2530	100 STM4305	75 STM2530	100
2706172 atgaatttaag -	STM2563	100 STM1183	62.857 STM2563	100
4240095 atgagaactc -	STM4030	100 STM2560	47 STM4030	100
4426922 atgaaaatttc -	STM4205	100 STM0558	82 STM4205	100
3000154 atgcacgaa +	STM2854	100 STM3144	67 STM2854	100
3075299 atggatcaaa -	STM2935	100	STM2935	100
963937 atgacgtctt -	STM0893	100 STM1005	81 STM0893	100
2583480 atgaaccagc +	STM2473	100 STM0007	84 STM2473	100
1036196 atgggcacgc -	STM0958	100 STM0609	62 STM0958	100
1075410 atgagtttcgtr +	STM0988	100 STM1993	65.347 STM0988	100
1060460 atgacgcaa -	STM0975	100 STM0490	60.952 STM0975	100
2742000 atggcgccgc -	STM2590	100 STM2591	100 STM2591	100
4643591 ttgcgccttaa +	STM4406	100 STM4298	61.538 STM4406	100
2389963 atgttgagtati -	STM2283	100 STM2198	81 STM2283	100
2456606 atgaaaatca -	STM2343	100 STM0618	63.636 STM2343	100
2021011 gtgcttatctta -	STM1923	100	STM1923	100
2477364 atggcgagta -	STM2364	100 STM1882	62.5 STM2364	100
1305816 atggcgctgc +	STM1219	100 STM4479	60.185 STM1219	100
1504193 atgtttacggg +	STM1426	100 STM2491	61.165 STM1426	100
1324213 atcgcgcaat -	STM1237	100 STM4193	74 STM1237	90.24
29978 atgaacagat +	STM0025	100 STM1088	63.107 STM0025	100
2069764 atgctctcaat +	STM1986	100 STM1624	93.069 STM1986	100
1404993 atggccagtg -	STM1325	100 STM1610	56.863 STM1325	100
4613502 atgtcacaag +	STM4368	100 STM3504	61.765 STM4368	100
4639028 atgattgctatr -	STM4401	100 STM3495	64.762 STM4401	100
4670359 atgaaaggc +	STM4426	100	STM4426	100
4729741 atggccgggc +	STM4485	100 STM3542	69.307 STM4485	100
4756931 atgaaagtca +	STM4502	100 STM2473	64 STM4502	100
2387414 atgacactaa +	STM2281	100 STM3834	61 STM2281	100
2423466 atgcttaacgc -	STM2315	100 STM4369	66.667 STM2315	100
2456313 atgtttatcctt -	STM2342	100 STM2552	66.667 STM2342	100

2021720 atgataatga:-	STM1924	100	STM3464	91	STM1924	100
2851281 atggctcagg-	STM2701	100	STM4213	59.434	STM2701	100
2577359 atgaacgattt-	STM2467	100	STM0352	66.019	STM2467	100
2795676 atggcagaa:-	STM2654	100	STM0689	84	STM2654	100
411176 atgaccatcg+	STM0361	100	STM0741	79	STM0361	100
2099143 atgagtaagc-	STM2017	100	STM0992	53.774	STM2017	100
4439817 atgacagag:-	STM4220	100	STM0094	64.762	STM4220	100
2968491 ttgatcccg:-	STM2818	100			STM2818	100
1433495 atgctggatg:-	STM1352	100	STM0077	73	STM1352	100
2066063 atgcgccggtt+	STM1979	100	STM1419	72	STM1979	100
3017520 atggaaacat-	STM2874	100			STM2874	100
2010290 atggctaact-	STM1913	100	STM2896	76	STM1913	100
2175112 gtgtctcatatt-	STM2093	100			STM2093	100
4092078 atgaagaaa+	STM3881	100	STM4130	61.682	STM3881	100
256131 atggctgaaa+	STM0217	100	STM0442	63	STM0217	92.21
438037 atgaaaataa+	STM0384	100	STM1151	56.604	STM0384	100
4416348 atgctgaccg+	STM4193	100	STM2222	69	STM4193	100
88203 atgaaaaatg-	STM0074	100	STM3501	61	STM0074	100
1390025 atgaataacc-	STM1309	100	STM1180	61.905	STM1309	100
1439421 gtgtctctgc-	STM1357	100	STM4047	92	STM1357	100
1538497 atgattgatatt-	STM1463	100	STM2842	61.905	STM1463	100
1108645 atgagcaac+	STM1017	100	STM2623	100	STM1017	100
4715489 atgaataatgi-	STM4473	100	STM1428	65.686	STM4473	100
603568 atggcagca:-	STM0542	100			STM0542	100
2743182 atggaacat-	STM2593	100	STM0919	77	STM2593	100
4819649 atgaacaac:-	STM4565	100	STM0970	63.725	STM4565	100
3896503 atgtcagaac-	STM3701	100	STM3121	61.165	STM3701	100
3668658 atgaatgaca-	STM3509	100	STM3630	62.136	STM3509	100
4376360 atgatccac+	STM4157	100	STM2137	77	STM4157	100
1872501 atgacaattg:-	STM1774	100	STM4278	59.804	STM1774	100
574780 atgcaagac:-	STM0513	100	STM2958	59.633	STM0513	100
2746982 atgtttctcaat-	STM2596	100	STM1039	69.608	STM2596	100
1115662 atgatgagaa+	STM1028	100	STM2612	100	STM1028	100
4638099 atgattagcg:-	STM4400	100	STM2485	63.366	STM4400	100
	STM1026	100	STM2614	100	STM2614	100
2796235 ttggctatcaa-	STM2655	100	STM3301	61.321	STM2655	100
3371848 gtgatggatal-	STM3206	100	STM3504	67	STM3206	100
3702812 atgcaggtttt:-	STM3535	100			STM3535	100
3931159 atgctgttgca+	STM3738	100	STM0205	59.804	STM3738	100
2687486 atggctatca+	STM2548	100	STM4416	74	STM2548	100
1287802 atgtttaagaa+	STM1203	100	STM0685	74	STM1203	100
4209884 ttgactaacct-	STM4001	100			STM4001	100
897990 atgagtaccg-	STM0831	100			STM0831	100
871627 atggcttcac+	STM0802	100	STM0419	63.208	STM0802	96.77
1500434 atggcacaa+	STM1421	100	STM2585	56.436	STM1421	100
2565112 atgaaaaag:-	STM2454	100	STM1512	65.094	STM2454	100
4285036 atgcaaatca+	STM4074	100	STM3882	70	STM4074	100
704743 ttgcagggtat:-	STM0642	100	STM0175	61.165	STM0642	100
306726 atgaccggc:-	STM0267	100	PSLT023	77.228	STM0267	100
2152997 atgagcactg+	STM2073	100	STM2402	70	STM2073	100
1788966 atgggtgaa+	STM1696	100	STM0192	68.317	STM1696	100
439241 atgttcccaa+	STM0385	100	STM4551	67.308	STM0385	100

1910068	atgtctgaacç-	STM1810	100	STM1339	59.804	STM1810	100
2225846	atgacagaa:+	STM2132	100			STM2132	100
734321	gtgttcagcgt-	STM0669	100	STM1126	64	STM0669	100
4530502	atgtcattacc-	STM4289	100			STM4289	100
2002360	atggcgaact-	STM1908	100			STM1908	100
4499153	atgggaaata+	STM4261	100	STM3533	62	STM4261	100
3913497	atggattcattl-	STM3717	100	STM3718	61	STM3717	100
1952734	gtgactaaca-	STM1855	100	STM2743	58.559	STM1855	100
4385209	atgaccgaac+	STM4167	100			STM4167	100
4076383	atggccggcç-	STM3866	100	STM4532	88	STM3866	100
2366579	atgaaagtta:-	STM2267	100	STM1473	86	STM2267	100
878353	atgaaatgçg-	STM0812	100	STM0956	86	STM0812	99.76
469840	atgcattgcc+	STM0415	100	STM4211	59.223	STM0415	98.9
4267159	atgagttatac+	STM4055	100	STM1431	66	STM4055	99.5
2138085	atgaatactat-	STM2063	100	STM3024	57.426	STM2063	100
1782415	atgggtattttl-	STM1690	100	STM4440	60.577	STM1690	100
2822177	atgagtagta:-	STM2681	100	STM3146	63.107	STM2681	100
3588490	atggctcaca-	STM3423	100	STM0305	57	STM3423	100
3918893	atgcgttttcat-	STM3723	100	STM2360	63.551	STM3723	100
4195681	gtgaaaacat+	STM3987	100	STM0611	60	STM3987	100
2728571	atgaagaacç-	STM2583	100	STM3446	63	STM2583	100
4152225	atgaaaaacç+	STM3946	100			STM3946	100
4126843	atgaatcttac+	STM3917	100	STM1545	68	STM3917	100
2064949	atgagtgaca+	STM1977	100	STM2345	62.5	STM1977	100
1902675	atgaccggcç-	STM1802	100	STM4247	67.961	STM1802	100
2495626	atggcagga:-	STM2384	100	STM2947	64.356	STM2384	100
2435988	atgaaaaacç-	STM2324	100	STM0285	59.804	STM2324	100
3926600	atgaaaccgt-	STM3733	100	STM0602	78.431	STM3733	100
2850099	atggctttacc-	STM2700	100	STM0963	51.485	STM2700	100
3034345	atggggaatgç-	STM2890	100	STM1979	72	STM2890	100
4257311	atgaccactc-	STM4046	100	STM1570	60.396	STM4046	100
4180758	atgggtggtal+	STM3973	100	STM0632	68	STM3973	100
3339205	atgagcgata-	STM3174	100	STM2272	76	STM3174	100
2526505	atggaccggcç+	STM2409	100			STM2409	100
4110619	atgaacgggç+	STM3901	100	STM3796	74	STM3901	100
117936	atgttagaag:-	STM0101	100	STM3677	83	STM0101	93.05
3072955	atggcgctgc-	STM2933	100	STM2934	74	STM2933	90.99
3063775	atgagattgai+	STM2921	100	STM2356	67.327	STM2921	100
4219996	atgcatatçç-	STM4010	100	STM0437	79	STM4010	100
587847	atgaagattgi+	STM0525	100	STM3247	77	STM0525	100
1048393	atgacaaccç+	STM0965	100	STM1497	100	STM0965	100
636401	atgatcaaatt-	STM0576	100	STM0747	60.952	STM0576	100
1728426	atggcgctac+	STM1637	100	STM4464	87	STM1637	100
1812389	atgggtaaagç-	STM1714	100	STM1298	69.903	STM1714	100
1649551	atgagtaagçl-	STM1568	100	STM4035	74	STM1568	100
1915149	ttgaattacca-	STM1817	100	STM1326	61.682	STM1817	100
1741018	atgaaactcg+	STM1647	100	STM1099	59.615	STM1647	100
1961336	atgaaaacgç+	STM1864	100			STM1864	99.03
1767922	atgactacaa-	STM1674	100	STM1296	63.107	STM1674	100
1990684	gtgataggca-	STM1895	100	STM3731	69.608	STM1895	100
597625	atgtcttcccçg-	STM0534	100	STM0530	61.538	STM0534	100
638727	gtggctcgctç-	STM0580	100	STM2729	61.386	STM0580	100

1748244 atgcaagaa: +	STM1654	100	STM1654	100
1670137 atgccatata: -	STM1583	100 STM4456	62 STM1583	100
388683 ttgaaagtaa: +	STM0343	100 STM2215	67 STM0343	100
1868676 atgcaaaaata +	STM1769	100 STM2107	64.078 STM1769	100
1697484 atgcgctctgtt: +	STM1606	100 STM0214	64 STM1606	100
1967922 gtggcgcttat +	STM1871	100 STM1861	92 STM1871	100
1993749 gtgtcgattatt -	STM1898	100 STM2842	65.686 STM1898	100
4005775 atggaaaac: +	STM3802	100 STM1495	59 STM3802	100
3139649 atgtcagtggt -	STM2987	100 STM2034	62.264 STM2987	100
2854025 gtggatatacc: -	STM2705	100 STM3858	58.095 STM2705	100
3247898 ttgtttacacta -	STM3084	100 STM1805	61 STM3084	100
3294023 atgccacgta -	STM3133	100	STM3133	100
4124692 atgagcaaa: -	STM3914	100 STM0820	71 STM3914	100
3847789 atgcaggctt: -	STM3661	100 STM4519	57.843 STM3661	100
1272022 cgcgtcgcce: +	STM1186	100 STM0514	60.185 STM1186	100
3118729 atgtcttctat: +	STM2968	100 STM3152	62.136 STM2968	100
2826334 gtggattatttt: -	STM2687	100 STM1061	61.321 STM2687	100
3215010 atgacacag: -	STM3053	100 STM4356	61.765 STM3053	100
3266527 atggagtttttc -	STM3106	100 STM3598	72 STM3106	100
4350750 atggctacca +	STM4131	100 STM4130	74 STM4131	100
3268530 atgaaaaac: -	STM3109	100 STM1128	58 STM3109	100
682368 atgtcttatcc -	STM0618	100 STM3166	62.745 STM0618	100
	STM2211	100 STM2210	97 STM2211	100
2946340 atgacagag: +	STM2797	100 STM4123	64.423 STM2797	100
1783566 atggctgaatt +	STM1691	100 STM4174	79 STM1691	100
3199143 atgactgagg +	STM3039	100 STM2295	63.366 STM3039	100
415444 atggagccgt -	STM0365	100	STM0365	100
3839141 atgaaaatca -	STM3653	100 STM2546	55 STM3653	100
2302580 atgacagaar +	STM2202	100 STM2461	68 STM2202	100
2337527 atgcctcata: -	STM2237	100 STM0906	68 STM2237	100
2256145 atgtacgagtt -	STM2159	100 STM4380	67 STM2159	100
2292179 atggaaatgc +	STM2194	100 STM4188	77 STM2194	100
2191163 atgaagatcc -	STM2106	100 STM3477	65.714 STM2106	100
2260071 gtgagtgatg: -	STM2164	100 STM3375	62.376 STM2164	100
3889527 atgattatttca +	STM3694	100 STM4454	60.396 STM3694	100
3596186 atgattggttta -	STM3440	100 STM2241	57.426 STM3440	100
4601683 atgatttatcgr +	STM4358	100 STM2991	65 STM4358	100
3592429 atgttacaacc -	STM3433	100 STM0447	56 STM3433	100
3198333 atggttttgag: -	STM3038	100 STM2925	76 STM3038	100
4622949 atgatagcga +	STM4380	100 STM1523	67 STM4380	100
4807477 atggaaaac: +	STM4548	100 STM4548	63 STM4548	100
4579569 atggcgcata -	STM4333	100 STM0768	58 STM4333	100
2252471 atgaaaatttc +	STM2156	100 STM2156A	72 STM2156	100
731710 atggcatttgc -	STM0666	100 STM4227	59 STM0666	100
3255309 atgaaaacc: +	STM3092	100 STM0602	62.857 STM3092	100
1168488 atggaactga +	STM1075	100 STM3951	66.337 STM1075	100
846448 atggcgcatt: +	STM0781	100	STM0781	100
921543 atgacgcaat +	STM0849	100 STM0705	64.706 STM0849	100
3487662 atggtactgat +	STM3323	100 STM3961	62.037 STM3323	100
851603 gtgaatacatt -	STM0786	100 STM1781	51.923 STM0786	100
892404 atgtccgcc: +	STM0826	100 STM3130	63.636 STM0826	100
3215562 atgagcaac: -	STM3054	100 STM0978	90 STM3054	100

303338	atgcttaaac:-	STM0263	100	STM0263	100
3392004	atgatacgttt:+	STM3223	100	STM3223	100
1483927	atgatgataa:+	STM1397	100 STM1777	56.436 STM1397	100
885356	atgaatattcc-	STM0819	100 STM1122	66 STM0819	100
939727	atgcagaatc+	STM0866	100 STM4517	70 STM0866	100
465673	atgaaaaact+	STM0409	100 STM0452	61.321 STM0409	100
2822368	atgtgtcgtga-	STM2682	100 STM1848	89 STM2682	100
4751240	gtgctcgatc-	STM4497	100 STM4363	68 STM4497	100
4785936	atgccgatgg+	STM4528	100 STM3380	54.455 STM4528	100
4563341	atgatctccac+	STM4318	100 STM3109	62.385 STM4318	100
4424282	atgaacacg:-	STM4203	100 STM4123	77 STM4203	100
4442497	atgatgaaa+	STM4222	100	STM4222	100
4419133	atggattacg:-	STM4197	100 STM2902	61.765 STM4197	100
4400684	atgatgattaa-	STM4181	100	STM4181	100
2098373	atgcagacac-	STM2016	100 STM4272	61.165 STM2016	97.28
2883465	atgaaaatcc+	STM2744	100	STM2744	100
2875270	atgctgactac-	STM2735	100 STM2734	71 STM2735	100
2876062	atgagtactg:-	STM2737	100 STM4310	60.396 STM2737	100
3451893	atgtctctaag-	STM3283	100 PSLT110	67 STM3283	100
3206668	atggatattca-	STM3047	100 STM0153	52 STM3047	100
3428894	atgaaacgta+	STM3259	100 STM2840	63 STM3259	100
1679309	atgaaccagt+	STM1591	100 STM2129	62.136 STM1591	100
1610392	atgactatctc-	STM1534	100 STM2993	59.223 STM1534	100
1701581	atggtggaag-	STM1611	100 STM2956	71.154 STM1611	100
3565843	atgaaaagat+	STM3392	100 STM4307	51.961 STM3392	100
92031	atgacatctcc+	STM0078	100 STM1351	77 STM0078	100
1579855	atgatgaaa-	STM1500	100 STM1732	56.731 STM1500	100
2703997	atgaaaaag:-	STM2561	100 STM0462	85 STM2561	100
		STM2509	100 STM0555	96 STM2509	100
2562454	atgcaaacac+	STM2452	100 STM4572	61.538 STM2452	100
2712396	ttggtgtgctc+	STM2566	100 STM3166	89 STM2566	100
2609833	atgaccgacac+	STM2495	100 STM4579	61.905 STM2495	100
2678195	atgccgaag:-	STM2538	100 STM0730	61.386 STM2538	100
790692	atgtatttttac+	STM0724	100 STM2087	60.952 STM0724	100
698292	atgaaaacc:-	STM0636	100 STM1345	59.804 STM0636	100
2411323	atgggcgtaa+	STM2303	100	STM2303	100
P40785	atgctgccgg+	PSLT048	100 STM1712	62.376 PSLT048	100
P19420	gtggccattcc-	PSLT026	100 STM0141	59.223 PSLT026	100
P33966	atgccgatca+	PSLT042	100 STM1323	61.905 PSLT042	100
P07919	atggcgtctg:-	PSLT012	100 STM0019	61.386 PSLT012	100
P03870	atgtcgctgcac+	PSLT007	100 PSLT010	100 PSLT007	100
P08116	atgagtgaati-	PSLT013	100 STM4097	50.962 PSLT013	100
P87203	atgatggaaa-	PSLT105	100 PSLT107	100 PSLT105	100
P61628	ttgactggcgc:-	PSLT074	100 STM2189	48.039 PSLT074	100
R1027	-	STM1837	45.098 STM2089	37 STM1837	23.01
		STM0353	100 STM0498	73 STM0353	100
		STM0476	100 STM3390	73 STM0476	100
		STM0498	100 STM0353	69.307 STM0498	100
		STM0522	100 STM1444	62.037 STM0522	100
		STM0558	100 STM4205	67 STM0558	100
		STM0600	100 STM4532	91 STM0600	100
		STM1215	100 STM1375	69 STM1215	98.45

	STM3217	60.185	STM0142	55.34	STM3217	10.84
	STM4216	79	STM3624	61.165	STM4216	57.53
	STM0306	46	STM0994	39.604	STM0306	13.69
	STM1268	94	STM1268	53.922	STM1268	95.5
	STM1918	62.264	STM4261	60.377	STM4261	13.02
	STM0498	61.682	STM2463	59.615	STM2463	18.36
	STM2356	61.386	STM0055	58.252	STM2356	22.68
	STM2702	90	STM2772	74	STM2702	67.88
	STM0627	62.617	STM1764	61.682	STM0790	14.95
	STM2977	64.706	STM1683	58.654	STM1683	15.69
	STM3746	25		STM3746	16.02	
	STM4208	75.248	STM0014	55.34	STM4208	38.64
	STM0016	71	STM2085	66.055	STM0016	55.23
	STM2706	94	STM2703	60	STM2706	17.07
	STM2616	91	STM0896	64.356	STM2616	48.84
	STM1965	56.731		STM1965	13.81	
	STM4202	79		STM4202	40.74	
	STM1324	61.765	STM1355	37	STM1324	15.62
	STM0193	60.194		STM0193	13.54	
	STM4453	39		STM4453	3.49	
	STM0564	58.416		STM0564	18.3	
	STM2087	74	STM0855	60.577	STM2087	60.59
	STM0090	62.376	STM3976	59.434	STM3976	39.58
	STM3191	60	STM1392	59.406	STM1392	11.74
	STM4159	56.604		STM4159	4.58	
	STM1436	59.223	STM4261	58.824	STM4261	9.37
	STM0650	62.162	STM2589	54	STM0650	20.62
	PSLT032	67.619		PSLT032	15.3	
	STM4413	60.952	STM2882	57.944	STM4413	28.98
	STM1365	60.396	STM1356	59	STM1365	1.85
	STM2720	100	STM2978	57.282	STM2720	93.85
	STM1005	68	STM0642	62.963	STM0642	5.95
	STM3280	60.577		STM3280	12.7	
3201627 atgactcagg -	STM3041	100	STM1776	79	STM3041	80.25
2510504 atgaagggg:-	STM2397	100	STM1386	73	STM2397	100
2108533 atgtcagaga -	STM2029	100	STM0489	76.238	STM2029	100
3746485 atgaaaaata +	STM3577	100	STM1919	87	STM3577	100
144966 gtggcagatc +	STM0123	100		STM0123	100	
188454 gtgctagaag +	STM0158	100	STM2305	63.725	STM0158	100
171810 atggcaaact -	STM0148	100	STM2515	61	STM0148	100
205070 atgaagaatti -	STM0174	100	STM3513	70.476	STM0174	100
227663 atgctgattt: +	STM0193	100	STM3011	59.804	STM0193	100
278163 atgaacatca +	STM0234	100	STM2559	83	STM0234	100
1592903 atgagattag: -	STM1514	100	STM2830	67	STM1514	100
3827985 atggagttttta -	STM3640	100	STM0543	61.386	STM3640	100
759733 atgaaaacg: +	STM0697	100	STM2364	56	STM0697	100
2055007 gtgatcggtgt +	STM1965	100	STM3543	65.049	STM1965	100
3907297 atgaaaatttt: +	STM3711	100	STM3712	60.396	STM3711	100
2104417 atgaacggta -	STM2024	100	STM2745	56.19	STM2024	100
1823069 atgcaaacc: +	STM1725	100	STM4160	68.317	STM1725	100

94547 atgaaacca+	STM0081	100	STM2532	54.455	STM0081	100
4060725 atggacagtc-	STM3853	100	STM2976	62.037	STM3853	100
16432 atgtctattccc+	STM0015	100			STM0015	100
3269737 atgcaagcgt+	STM3110	100	STM0776	59	STM3110	100
3478938 atgctgttaaa-	STM3312	100	STM2971	70	STM3312	100
3515260 atgttcacgac+	STM3347	100	STM1694	65	STM3347	100
694776 atgggtgaga+	STM0632	100	STM3973	68	STM0632	100
1198040 atggaatgga-	STM1110	100	PSLT072	59.804	STM1110	100
1240790 gtgcgtatatt+	STM1152	100	STM3201	64.078	STM1152	100
3653464 atgaaagaa+	STM3497	100	STM2293	61.111	STM3497	100
3686451 atgcgaaaa+	STM3522	100	STM4005	73.529	STM3522	100
3713987 atgatctactt-	STM3544	100	STM1640	57.843	STM3544	100
4801951 gtgctgatata-	STM4541	100			STM4541	100
1290061 atgtctttcatt-	STM1204	100	STM0030	70	STM1204	100
3690831 atggaagag-	STM3527	100	STM4572	55	STM3527	100
3722746 atgaaacgct+	STM3552	100	STM2594	64.035	STM3552	100
4804637 atgggtataal-	STM4545	100	STM2975	52.885	STM4545	100
4842669 atgttacaggt+	STM4585	100	STM0772	52	STM4585	100
340352 gtgtaacga+	STM0295	100	STM2478	60.784	STM0295	100
3744642 atgtcgaccc+	STM3576	100	STM0705	73.077	STM3576	100
4828875 gtgaagtatt-	STM4572	100	STM0023	63.366	STM4572	100
2869623 atgtcaatca-	STM2726	100			STM2726	100
2888219 atgctttgcttt+	STM2747	100	STM2088	77	STM2747	100
2906071 atggcaaaa+	STM2763	100	STM2740	66	STM2763	100
2937538 atggataacct+	STM2788	100	STM3474	50.485	STM2788	100
4465368 atgctggaac+	STM4244	100	STM2493	66.346	STM4244	100
4538399 atgaggatttg-	STM4295	100	STM2867	62.745	STM4295	100
941804 atgaccgtcc-	STM0868	100			STM0868	100
965733 atgggcagcc-	STM0896	100			STM0896	100
2587664 atgtcgcaaa-	STM2477	100	STM1578	64.545	STM2477	100
1027342 atgatgactg-	STM0948	100			STM0948	100
2561202 atgagcacttt+	STM2450	100	STM2991	69.608	STM2450	100
1012954 atgatgacga-	STM0936	100	STM0767	66	STM0936	100
1052395 atgccgaatg+	STM0969	100	STM4345	66.038	STM0969	100
1084675 atgattgaac+	STM0994	100	STM4507	65.385	STM0994	100
1128996 gtggacagcc+	STM1041	100	STM2594	100	STM1041	100
4302087 gtggcacaac-	STM4093	100	STM2588	68	STM4093	100
3045712 atggatacga+	STM2901	100	STM1000	57.282	STM2901	100
4585772 gtgcaaacct-	STM4343	100	STM0734	73	STM4343	100
2533278 atggaacga-	STM2420	100	STM1487	80	STM2420	99.66
991786 atggaccag+	STM0918	100	STM2594	80	STM0918	100
2673748 atgaccacc+	STM2533	100	STM2691	64.762	STM2533	100
2715203 ttggtcagccc-	STM2569	100	STM0399	58.416	STM2569	100
2703610 atgaaaaca+	STM2560	100	STM0710	84	STM2560	100
4594714 atgggcgacc-	STM4349	100	STM2701	70	STM4349	100
2092761 atggaaaata-	STM2009	100	STM4063	63.551	STM2009	100
2425631 atggacgtca-	STM2316	100	STM2318	70.297	STM2316	92.01
2472662 atgactgact-	STM2360	100	STM3723	65.686	STM2360	100
1282609 atgttttaatta+	STM1198	100	STM0682	60.784	STM1198	100
2131455 atgaagcgttt+	STM2056	100	STM2469	62	STM2056	100
3599486 gtgtctaaag-	STM3445	100	STM4146	100	STM3445	100
1566321 gtggttgctga+	STM1488	100	STM0682	70	STM1488	100

349557 atgatggaac +	STM0304	100	STM0179	52.941	STM0304	100
1518586 atgaaactct -	STM1441	100	STM3364	62.376	STM1441	100
4634552 atgctgcccg +	STM4397	100	STM3453	68.317	STM4397	100
135513 atgccagagc +	STM0115	100	STM3064	61.386	STM0115	100
2035112 atgctgatatg -	STM1941	100	STM1522	60.194	STM1941	100
2086104 atgggcaagt +	STM2006	100	STM2760	71	STM2006	100
4680187 atgaatatcg +	STM4435	100	STM4533	53.465	STM4435	100
2420577 atggaattaal +	STM2313	100	STM3627	61.538	STM2313	91.34
2454102 atgattaagct -	STM2340	100	STM1956	59	STM2340	100
4707210 atgggtaaatl -	STM4464	100			STM4464	100
4750626 atgaatattga -	STM4496	100	STM1619	63	STM4496	100
2471174 atgagtaaca -	STM2359	100	STM0205	63.889	STM2359	100
1275794 atgcaaaagc +	STM1190	100	STM0097	63.462	STM1190	100
1422484 atgcgttttgg +	STM1343	100	STM3453	66	STM1343	100
1174181 atgttgatctt -	STM1084	100			STM1084	100
346076 atgaagttca +	STM0301	100	STM3638	65	STM0301	100
274002 atgagctctga +	STM0232	100	STM0935	61.765	STM0232	100
498147 atgagactca -	STM0443	100	STM0600	62.376	STM0443	100
180807 atggctatcgc +	STM0153	100	STM4491	62.5	STM0153	100
1397070 atggaacgc +	STM1317	100	STM4220	70	STM1317	100
1442588 atgtctcaga -	STM1360	100	STM1361	65	STM1360	100
2930491 gtgaaaatac +	STM2782	100	STM4196	61.261	STM2782	100
1535446 atgactacaa -	STM1460	100	STM1117	61.111	STM1460	100
1563954 gtgagtcgta -	STM1486	100	STM0328	65.385	STM1486	100
4450528 atgggagata -	STM4229	100	STM3391	73	STM4229	100
350612 atgaaaaact -	STM0306	100			STM0306	100
432688 atgtcggcgg +	STM0377	100	STM1799	61	STM0377	100
464178 gtgttaaacc +	STM0407	100			STM0407	100
146321 atgattagcgt +	STM0124	100	STM3965	85.437	STM0124	100
2476379 atggtctggat -	STM2363	100	STM0797	60.396	STM2363	100
2934435 atgctctctt -	STM2785	100	STM4292	71	STM2785	100
1454179 atgtctcgtaa +	STM1370	100	STM3478	63.208	STM1370	100
3730136 atgagtcagc -	STM3561	100	STM3560	67	STM3561	100
520312 atgctgagttt +	STM0461	100	STM0817	68	STM0461	100
625593 gtgaaaaac +	STM0568	100	STM0150	79	STM0568	100
2310589 atggcctcttc +	STM2210	100	STM2211	97	STM2210	100
4653171 atgacctcaa -	STM4412	100	STM1368	68.932	STM4412	100
2785844 gtgacaccgc +	STM2645	100	STM3557	48.039	STM2645	100
3829195 atgattgtaac -	STM3641	100	STM4121	61.165	STM3641	100
3442155 atggcagtgat +	STM3275	100	STM4477	71	STM3275	100
2400215 atgttggaatc -	STM2292	100	STM3533	66	STM2292	100
2680575 atggattactt -	STM2540	100	STM4163	64.706	STM2540	100
31209 atgcctccgc +	STM0027	100	STM0545	65.347	STM0027	100
4656496 atgaaaacgtl -	STM4415	100	STM1806	62.136	STM4415	100
4803529 atgaaaaatg -	STM4543	100	STM1015	68	STM4543	100
2748188 atgagcaaa -	STM2598	100	STM0915	91	STM2598	100
4808925 atggcctacc -	STM4550	100			STM4550	100
3905113 atgctgggg -	STM3709	100			STM3709	100
3804215 atggcgattct -	STM3620	100			STM3620	100
3437654 gtgcaagggtg -	STM3268	100			STM3268	100
2388600 atgaaaacc -	STM2282	100	STM3553	71	STM2282	100
2383685 atgaatcaga +	STM2277	100			STM2277	100

3037972 atgaaaaca-	STM2894	100	STM1415	71	STM2894	100
4292270 atgaccatac+	STM4083	100	STM3174	66.019	STM4083	100
761998 atgagtaatc-	STM0699	100	STM2202	58.654	STM0699	100
805769 atgagtagcg+	STM0737	100	STM2709	64.356	STM0737	100
4214266 atgcaacgaç-	STM4005	100	STM1691	75	STM4005	100
3620322 atgacctgct-	STM3469	100	STM0066	59	STM3469	100
4208917 atggttcagat+	STM3999	100	STM4358	65	STM3999	100
948036 atgatatcact+	STM0876	100	STM0918	62.376	STM0876	100
3611740 atgattgtttct+	STM3459	100	STM0838	71.287	STM3459	100
4504293 atgtcgcatac-	STM4265	100	STM0581	66	STM4265	100
2723913 gtggaagggl-	STM2579	100		STM2579	100	
1973856 atgttgccaa-	STM1879	100	STM1467	88	STM1879	100
4388182 atgaaacgg-	STM4172	100	STM2389	61.765	STM4172	100
4225702 atgaaatctc-	STM4016	100	STM0668	53.846	STM4016	100
1503335 gtgcagaagt-	STM1425	100	STM0768	88	STM1425	99.71
2550529 gtgcgagttc+	STM2437	100	STM0128	62	STM2437	100
1025624 atggggggaç+	STM0946	100	STM1957	100	STM0946	100
2805550 atgaatgcac-	STM2661	100		STM2661	100	
61084 atgacagcat+	STM0051	100	STM0661	67	STM0051	100
1100093 atgcgccttat-	STM1007	100	STM2634	100	STM1007	100
1956371 atgttcaggtc+	STM1859	100	STM2150	62.162	STM1859	100
3196209 atgcataaaa+	STM3035	100	PSLT002	77.228	STM3035	100
4616643 atgctctttacç+	STM4372	100	STM1684	60.784	STM4372	99.91
4759365 atgcacacct+	STM4504	100	STM0358	86	STM4504	100
2127615 atgaatacttc+	STM2051	100	STM2463	74	STM2051	100
4519839 atgacatccg+	STM4280	100	STM2251	68.932	STM4280	100
1999821 atgtctcaccç+	STM1905	100	STM0937	63.725	STM1905	100
4479874 gtgaaatatal+	STM4258	100	STM2734	58.252	STM4258	100
9942 atgggcaac-	STM0009	100	STM3296	60	STM0009	100
2846296 atgatgatggl-	STM2696	100		STM2696	100	
48317 atgagcatgt+	STM0040	100	STM0876	58	STM0040	100
4129234 atgacacaac+	STM3919	100	STM2079	59.406	STM3919	100
4167692 atgtatcagg+	STM3962	100	STM0457	68.317	STM3962	100
4145052 atgagtattct-	STM3937	100	STM0602	79.208	STM3937	100
3232923 atgaccgtac-	STM3070	100	STM1290	62.376	STM3070	99.9
1850948 atgagaaaa-	STM1754	100	STM1335	65	STM1754	100
1889473 gtggcgaatg+	STM1790	100	STM1789	90	STM1790	88.82
3178335 atgatttgaal-	STM3017	100	STM2642	66.355	STM3017	100
3110461 atgaaaataç-	STM2959	100	STM3247	79	STM2959	100
3137604 atgacaaaac+	STM2985	100	STM1374	58	STM2985	100
4265208 atgaacacat-	STM4053	100	STM3170	82	STM4053	100
3120206 ttgattacaca+	STM2969	100	STM3905	50	STM2969	100
4241418 atgccactgg-	STM4032	100	STM3201	62.5	STM4032	100
4172026 atgacaatatt+	STM3965	100	STM0124	86	STM3965	100
4154689 atgacggatg+	STM3949	100	STM1763	65.049	STM3949	100
4130420 gtgaaagtac+	STM3920	100	STM0309	66.337	STM3920	100
4358659 atgaaagata+	STM4138	100	STM4292	60.952	STM4138	100
3156083 atgttaagggl-	STM2996	100	STM1603	89	STM2996	100
1836627 atgaatgctgt-	STM1742	100	STM0848	73	STM1742	100
4291032 atgcgacatc-	STM4081	100	STM0989	62.264	STM4081	100
540793 atgaccgcgç+	STM0483	100	STM1960	72	STM0483	100
601388 atgaagcggt-	STM0538	100	STM4540	60	STM0538	100

643813 atgaacaag:-	STM0585	100 STM2777	83 STM0585	100
1061289 atgaaagcat+	STM0976	100 STM0818	63.303 STM0976	100
347795 atgtcttatgc:+	STM0303	100 STM0063	62.037 STM0303	100
1624681 atgctcagaaa+	STM1547	100	STM1547	100
1673646 atgcacttac:-	STM1586	100 STM0189	50 STM1586	100
1715818 atggaaaaa:+	STM1625	100 STM4591	61 STM1625	100
1756224 atggctatgta+	STM1661	100 STM4381	62 STM1661	100
1742064 gtgccgcggt+	STM1650	100	STM1650	100
1791530 atgccgtttac-	STM1698	100 STM2084	68.627 STM1698	100
570855 atgacaatta:+	STM0509	100 STM1804	65.347 STM0509	100
1093541 atgaagcttg:-	STM1001	100 STM0459	58.095 STM1001	100
1033347 atgcbgcgcb:-	STM0956	100 STM0662	67.647 STM0956	100
683825 atgcbgcctgt-	STM0620	100 STM0062	66 STM0620	100
670008 atgattaaac:-	STM0607	100 STM2995	60.396 STM0607	100
1828531 atgaaaaaal-	STM1732	100 STM0791	68.519 STM1732	100
1656785 atgctggatgt+	STM1573	100 STM1573	72.549 STM1573	100
1709631 gtgaatataal-	STM1621	100 STM3644	66 STM1621	100
1749661 gtgaccacttt-	STM1655	100 STM0820	74 STM1655	100
1780330 atgtcaatga:-	STM1685	100 STM3208	63.107 STM1685	100
3106461 atggcgcaat-	STM2957	100 STM0882	63.366 STM2957	100
3164971 atgttatgtgca+	STM3006	100 STM2119	71.569 STM3006	100
3197290 atgataatga:+	STM3036	100 STM0858	61.321 STM3036	100
3260926 atgaatatgg:-	STM3099	100 STM0143	69 STM3099	100
502963 atgcaagtttc+	STM0447	100 STM2383	69 STM0447	100
3751251 atgtaccagg+	STM3583	100 STM2563	61.765 STM3583	100
3867855 atgaacgtac+	STM3679	100	STM3679	100
3968557 atgcagcag:-	STM3767	100 STM4447	64 STM3767	100
3340646 atgaaaaaal-	STM3176	100 PSLT020	67 STM3176	100
3175689 gtgaaaacg:-	STM3015	100 STM3014	47 STM3015	100
3241600 ttgatgttatttt-	STM3079	100 STM0232	48.113 STM3079	100
3283578 atgttgaatct-	STM3123	100 STM2065	61.386 STM3123	100
3813236 atgtcacagg-	STM3628	100 STM0851	74 STM3628	100
3853982 atgacattttc:+	STM3665	100	STM3665	96.75
3892651 atggctttaag+	STM3697	100 STM3833	90 STM3697	100
3944473 atgaaattgal+	STM3748	100 STM2811	63.107 STM3748	100
408271 atgatgaatal+	STM0358	100	STM0358	100
2999588 atgactatttg:-	STM2853	100 STM0430	60 STM2853	100
3293106 atgggatattt:-	STM3132	100 STM0945	58.824 STM3132	100
3001095 atgtgtacgar+	STM2855	100 STM2683	76 STM2855	100
2279012 atgatgacat:+	STM2182	100 STM4272	59.223 STM2182	100
2165292 atgtctttcttc-	STM2084	100 STM2105	72 STM2084	100
2207467 atgcbgttatg:-	STM2121	100 STM2253	60.748 STM2121	100
2348990 atgaaacgc:-	STM2248	100 STM3813	100 STM2248	100
2320153 atgccgcgat+	STM2218	100 STM1744	58.654 STM2218	100
2240225 atggaacaac:-	STM2145	100 STM3935	62.037 STM2145	100
1940940 atgatgcgaa-	STM1844	100 STM2970	70.297 STM1844	100
3585732 gtggcccgtta-	STM3418	100 STM3877	58.416 STM3418	100
3761289 atggcttataa+	STM3591	100 STM1927	68 STM3591	100
3510547 atggattgtgc:-	STM3341	100 STM2325	65.347 STM3341	100
3788509 atgtctaaaa:+	STM3612	100 STM3541	63.725 STM3612	100
3671706 atgccattagt+	STM3512	100 STM4482	75 STM3512	100
4642511 atgttagaac:+	STM4404	100 STM0309	62.617 STM4404	100

3346463	atgtctacgct -	STM3182	100	STM3182	64.762	STM3182	100
2982410	atgaaacctc +	STM2837	100	STM0193	65.686	STM2837	100
2282634	atgccgcaac +	STM2186	100	STM3331	86	STM2186	100
3322981	atggctgtcat +	STM3162	100	STM3226	77	STM3162	100
1490280	atgagcgtag +	STM1408	100	STM2838	66.667	STM1408	100
800488	atgaaactgc +	STM0734	100	STM4343	73	STM0734	100
870241	atgcgcaatc -	STM0801	100	STM2909	63	STM0801	100
932017	atgaacgata +	STM0858	100	STM3036	62.5	STM0858	100
1259071	gtggcgctgtt +	STM1175	100	STM4227	71.154	STM1175	100
860083	atgacaacgc -	STM0793	100	STM3218	78	STM0793	100
907980	ttgttgcgtaat +	STM0839	100			STM0839	100
3501721	atgacgaatc +	STM3332	100	STM3332	58	STM3332	100
3954686	atgatgagaa +	STM3756	100			STM3756	100
3352095	atggaaaga +	STM3188	100	STM4376	70.588	STM3188	100
1488757	atgaaaattc +	STM1404	100	STM1639	88	STM1404	100
900049	atgaaaaaa +	STM0833	100	STM2947	60.194	STM0833	100
4626951	atgaccgtac +	STM4384	100	STM1320	89.32	STM4384	100
4674353	atgtcaatga -	STM4430	100	STM3793	63.462	STM4430	100
446068	atgaaaaaa -	STM0394	100	STM0257	67.327	STM0394	100
4780601	atgaacaata -	STM4525	100	STM0602	63.81	STM4525	100
511062	atgaaacac +	STM0453	100	STM3626	61.386	STM0453	100
612544	ttgtggcac -	STM0551	100	STM4355	70.297	STM0551	100
613781	gtgattcaca -	STM0554	100	STM0555	100	STM0554	70
341459	atgctcgctat +	STM0298	100	STM2764	77	STM0298	100
386609	atgtattacag +	STM0342	100	STM0345	62.745	STM0342	100
389526	atgagtcaga +	STM0344	100	STM0341	66	STM0344	100
3117812	gtggacgaac -	STM2967	100	STM2269	47	STM2967	100
4562243	ttgaatgcttc -	STM4316	100	STM2647	57.407	STM4316	100
4280508	atggcgctcg -	STM4071	100	STM0233	57.547	STM4071	100
3983951	atgagtaaaa -	STM3783	100	STM1315	59	STM3783	100
3307450	atgtgtattgg -	STM3143	100	STM2856	71.845	STM3143	100
1610688	atgtgtattgg -	STM1535	100	STM1555	72.549	STM1535	100
1597931	ttgaaaagca -	STM1520	100	STM3025	58.824	STM1520	100
4007083	atgaagatttc -	STM3805	100	STM3804	62.745	STM3805	100
3938962	atgtcaggcc +	STM3744	100	STM1216	71	STM3744	100
3806423	atgatgacca +	STM3623	100	STM2065	46	STM3623	100
3995913	atgcagaaa -	STM3795	100	STM2006	53.465	STM3795	100
3679968	atggggcaaa -	STM3516	100	STM3528	60.177	STM3516	100
1449967	ttgatctggaa +	STM1366	100	STM0599	72	STM1366	100
4352814	aggctgtag +	STM4133	98.649	STM0250	86.486	STM4133	98.65
1961788	ctgacgccgc -	STM1865	100	STM1999	66	STM1865	100
4722122	atggatttcga -	STM4478	100	STM4478	63.208	STM4478	100
4209131	atgttctatctt +	STM4000	100			STM4000	100
4359829	tattcgtcaca -	STM4140	100			STM4140	100
4119663	ctgcccgttg +	STM3911	100	STM0757	65	STM3911	100
3557775	atgatacgtat +	STM3387	100			STM3387	100
3476501	atgttgggctg -	STM3308	100	STM2136	59.223	STM3308	100
2032915	gtggtaaaaa -	STM1939	100	STM4088	88	STM1939	100
P47352	atgttcgctttg -	PSLT054	100	STM1997	73	PSLT054	100
P47774	atgttactgctt -	PSLT055	100	STM1998	66	PSLT055	100
P30915	atgaatatgat -	PSLT040	100			PSLT040	100
P53682	atgtccggac +	PSLT064	100	STM1876	64	PSLT064	100

P43402	atgaaaaag:-	PSLT051	100	STM3508	76	PSLT051	100
P17677	ttgaagtcatt:+	PSLT023	100	PSLT024	100	PSLT024	94.5
P52622	atgcagtattc+	PSLT062	100	STM2167	61.765	PSLT062	100
P01845	gtgtctacccc+	PSLT004	100	STM1811	47	PSLT004	100
R20925	+	STM1560	60.952	STM2432	51	STM1560	15.77
		STM2267	100	STM1572	86	STM2267	100
		STM2351	100	STM1951	70	STM2351	100
		STM2355	100	STM2354	77	STM2355	100
		STM2473	100	STM0007	71	STM2473	100
2591576	atgaatcgttt-	STM2479	100	STM3331	71	STM2479	100
2622648	ttgatctctgcc-	STM2509	100	STM0555	72	STM2509	100
		STM0175	66	STM3638	65	STM0546	22.14
		STM3680	30			STM3680	11.63
		STM0541	100			STM0541	99.5
		STM0105	62.037			STM0105	24.32
		STM3787	61.538			STM3787	7.08
		STM0373	100	STM1787	64.22	STM0373	47.16
		STM2697	57.843	STM3601	57.282	STM3601	31.84
		STM3174	63.107			STM3174	13.63
		STM3921	50	STM3577	36	STM3921	6.83
		STM0197	83	STM3027	67.647	STM0197	57.59
		STM1391	60.577			STM1391	28.43
		STM3020	55	STM1365	49.038	STM3020	26.58
		STM3467	62.376	STM0118	58	STM3467	16.89
		STM0447	61.468	STM0175	59.048	STM0175	35.54
		STM4421	61.165	STM1026	50.962	STM4421	6.36
		STM0371	54.902	STM0157	52.427	STM0371	8.05
		STM0907	100	STM1869A	99	STM0907	97.1
		STM3191	61.321			STM3191	10.73
		STM1848	61.321	STM3822	60	STM3822	15.17
66637	atgaccattgc-	STM0055	100	STM3352	100	STM0055	95
		STM2730	90	STM3484	66	STM2730	72.22
		STM1832	59.804	STM2594	58	STM2574	25.7
		STM4185	100	STM0194	88	STM4185	95.65
		STM3920	60.784	STM3499	59	STM3920	19.51
		STM1828	47	STM2219	27	STM1828	22.07
		STM3674	65.714	STM1727	60.185	STM2443	35.31
		STM4514	100	STM2807	62.745	STM4514	91.08
		STM0625	63.107	STM4200	58.824	STM4200	40.67
		STM3000	59.434	STM1229	58.095	STM3000	23.97
		STM2730	94	STM3484	73	STM2730	80.5
		STM3787	60.396	STM1320	60.194	STM3787	17.89
		STM0745	50			STM0745	35.34
		STM0625	59.804			STM0625	6.48
4020818	atgattaagc:-	STM3821	100	STM3624	67.961	STM3821	100
4049577	atgagccata+	STM3843	100	STM2580	64.762	STM3843	100
4080167	atggcttcag:-	STM3871	100			STM3871	100
3911616	atgggcagc:-	STM3715	100	STM3715	67.308	STM3715	100
3479758	atgggtcagtr-	STM3313	100	STM0662	76	STM3313	100

3518712	gtgattctgttc-	STM3350	100	STM0769	72	STM3350	100
3511191	atggctgtcgr-	STM3342	100	STM2099	62.857	STM3342	100
3544559	atgttgaaaa:-	STM3374	100	STM0659	63.462	STM3374	100
699612	atgaagacc:-	STM0637	100	STM0863	80	STM0637	100
724212	atggataatgr-	STM0659	100	STM0012	65.385	STM0659	100
756846	atgactgaca-	STM0693	100	STM4534	87	STM0693	100
4025359	atgtcacatc:+	STM3824	100	STM3502	71	STM3824	100
1612045	atgttattgata-	STM1537	100	STM1788	77.228	STM1537	100
4031783	atgaaaataa-	STM3828	100	STM2291	66	STM3828	65.21
4056192	atgaagaaal+	STM3848	100	STM3485	64.762	STM3848	100
4091462	atgagcactg+	STM3880	100			STM3880	100
1411310	atgcttataatt-	STM1332	100			STM1332	100
841597	atgagagtatt-	STM0776	100	STM3110	58.824	STM0776	99.9
2109095	atgaaagatg-	STM2030	100	STM2030	63.366	STM2030	100
3910706	atgattaaaa:-	STM3714	100			STM3714	100
97848	atgagtaata:+	STM0084	100			STM0084	100
162454	atgtctgacgt-	STM0138	100			STM0138	100
202072	atgaaagac:-	STM0171	100			STM0171	100
247704	atgtatgaca:-	STM0211	100	STM4049	49	STM0211	100
3576804	atggcccgtta-	STM3405	100	STM0651	60	STM3405	100
3612437	atgtcgaaga-	STM3461	100	STM1751	62.136	STM3461	100
1295758	ttgactacacc+	STM1211	100	STM3588	50	STM1211	100
1337978	atggcacattt-	STM1253	100	STM1639	65	STM1253	100
1364935	gtgaccaa:-	STM1286	100	STM0433	63.366	STM1286	100
2201059	atgacagaa:-	STM2116	100	STM1491	89	STM2116	98.36
1297685	atgaaaaac:+	STM1214	100	STM0823	61.905	STM1214	100
1345643	atgcaacaac:+	STM1261	100			STM1261	100
1367375	atgaaatcag+	STM1288	100	STM3165	62.857	STM1288	100
2204905	atggaatgga+	STM2119	100	STM1828	89	STM2119	100
4857408	atgctgtgtaa+	STM4600	100	STM2545	67.327	STM4600	100
2892114	atgaacaaa:+	STM2753	100	STM2277	56.436	STM2753	100
2193724	atgtcaaaag-	STM2109	100	STM4275	78	STM2109	100
2231045	atgtttaaacc+	STM2136	100	STM0185	59.804	STM2136	99.78
316639	gtgagcctga+	STM0275	100	STM4314	61.905	STM0275	100
340952	atgctgtaaag+	STM0297	100	STM2765	84	STM0297	100
374194	atgtctgctaa+	STM0329	100	STM0111	74	STM0329	100
1151992	atgaattctct:+	STM1061	100			STM1061	100
4345380	atgccacattc-	STM4126	100	STM4534	92	STM4126	100
3058808	atgccgcgttt-	STM2915	100	STM0518	62.376	STM2915	100
2497311	atgaaaaag:+	STM2386	100			STM2386	100
2537696	atgaactattc-	STM2424	100	STM0256	66	STM2424	100
993587	atgctgggac:+	STM0921	100	STM2592	77	STM0921	100
2660501	atggctattga-	STM2526	100	STM2851	62.376	STM2526	100
987115	atgaacaaa:+	STM0915	100	STM2598	91	STM0915	100
2624382	atgacggaa:-	STM2510	100	STM4290	62	STM2510	100
2683425	atgagactga-	STM2544	100	STM3619	80	STM2544	100
2733915	atgacgtttaa-	STM1868	100	STM2586	100	STM2586	100
4270444	atgaataaaa-	STM4059	100	STM3824	69	STM4059	100
4435391	atggcagcta-	STM4213	100	STM3086	64.151	STM4213	100
3054487	atgacgtatc:-	STM2911	100	STM2815	65	STM2911	100
3086703	gtgtcgatata-	STM2944	100	STM0615	57	STM2944	100
2553727	atgagcattg:-	STM2441	100	STM1491	88	STM2441	100

2601973 atgcgctggc -	STM2486	100 STM1576	58.879 STM2486	99.31
1055020 atgccagttac +	STM0972	100 STM2945	69 STM0972	100
1096753 atgttagagc: +	STM1003	100 STM0006	66 STM1003	100
1078209 atgcaggatc +	STM0991	100 STM2166	62 STM0991	100
2043036 atgccactac -	STM1953	100 STM3965	62.745 STM1953	100
2154651 gtgatgaacg +	STM2075	100 STM0266	59.406 STM2075	100
2445820 gtgaacggtg -	STM2333	100 STM3356	62.745 STM2333	100
2130648 atgtctcagg: +	STM2054	100 STM2455	65.049 STM2054	100
1351233 gtgttcgagg: +	STM1270	100 STM3959	62.376 STM1270	91.42
1222921 gtgatagcaa +	STM1132	100 STM3338	73 STM1132	100
1407069 atgaagctttt: +	STM1327	100 STM0201	63 STM1327	100
423574 atgtcttttagc +	STM0371	100 STM4275	73 STM0371	100
1399366 atgtcgcata: -	STM1318	100	STM1318	100
4598383 atgttatggtc: -	STM4355	100 STM3204	86.139 STM4355	100
	STM1995	100 STM1473	88 STM1995	100
1475988 atgtcgtattct -	STM1390	100 STM2160	74 STM1390	100
4621601 atggagcgtc -	STM4378	100 STM3279	57.843 STM4378	100
4660858 atgtccacatc -	STM4418	100 STM4419	69.307 STM4418	100
2381044 atgaacactg +	STM2276	100	STM2276	100
4743262 atgaaaatag -	STM4494	100 STM4581	91 STM4494	100
4775828 atggcttacc: +	STM4519	100 STM2791	72 STM4519	100
2406096 atgtttgacgc +	STM2298	100 STM3346	63.81 STM2298	100
2443902 atgaagcag: +	STM2332	100 STM0491	63.725 STM2332	100
4796637 atggtagagg +	STM4537	100 STM4037	64.078 STM4537	100
1350398 atgattcgca +	STM1269	100 STM1269	63.107 STM1269	100
236264 atggctaaaa +	STM0200	100 STM4301	87 STM0200	100
418864 atgtctttacat +	STM0368	100 STM4184	77.982 STM0368	100
2789073 atgaacacc: +	STM2649	100 STM3915	64.706 STM2649	100
442536 atgagtcggt: +	STM0390	100 STM2545	65.421 STM0390	100
4459140 atggccaata +	STM4236	100	STM4236	100
2459570 atgaaactga -	STM2347	100 STM2732	63.725 STM2347	100
2405110 atggctgaag +	STM2297	100 STM3925	64.356 STM2297	100
4446582 atgatgccatt +	STM4226	100 STM4268	54.206 STM4226	100
1458990 atgaaacgtg +	STM1375	100 STM1215	70 STM1375	100
1669221 atgacctctttt -	STM1582	100 STM0361	61 STM1582	100
2364195 atgatgaaa: -	STM2265	100 STM1659	62 STM2265	100
3985182 atgaaaacat -	STM3785	100 STM1239	58.824 STM3785	100
2722442 atggcgattct -	STM2577	100 STM1048	56.881 STM2577	100
194995 ttgaaaaagc -	STM0165	100	STM0165	100
2135872 atggattacg: -	STM2061	100 STM0547	60.396 STM2061	100
169917 atgttgccag: +	STM0146	100 STM0931	51.485 STM0146	100
183833 atgaaaaag: -	STM0156	100 STM0611	60.577 STM0156	100
1414130 atgcctgttatt +	STM1333	100 STM4024	65.741 STM1333	100
479316 atgaagtttat: +	STM0425	100 STM3288	55 STM0425	100
1553926 atggaaaaa: -	STM1477	100 STM2558	63.107 STM1477	100
555882 atgacacc: -	STM0495	100 STM4549	65.385 STM0495	100
556878 atggagctatt -	STM0496	100 STM0702	59.259 STM0496	100
655946 gtgagactcc -	STM0594	100 STM0979	67.327 STM0594	100
4719868 atggaaaag: -	STM4475	100 STM0977	89 STM4475	100
4856086 atgcagacc: -	STM4598	100 STM3502	70 STM4598	100
3382367 atgtttttgcat: -	STM3216	100 STM1919	84 STM3216	100
3936875 atgaatccaa +	STM3743	100 STM4369	66 STM3743	100

1345123 atggagtattt:-	STM1260	100 STM1663	64.706 STM1260	100
2534803 atgggtattac-	STM2421	100 STM3113	81 STM2421	100
2917492 atgcgtattctç+	STM2773	100 STM2113	54.286 STM2773	100
2752323 atgtcatttacc-	STM2604	100 STM2514	52.427 STM2604	100
1109538 atgagaattg:+	STM1019	100 STM2621	100 STM1019	100
2755402 gtgaagcgcç:-	STM2606	100 STM2750	58 STM2606	100
2782772 atgtctcagtc-	STM2642	100 STM1775	65.421 STM2642	100
3356297 atgcgtgatg:+	STM3192	100 STM4098	76 STM3192	100
3756763 atggacaaa:-	STM3587	100 STM1535	64.423 STM3587	100
3645230 gtgaacgcgc:-	STM3490	100 STM0952	71.698 STM3490	100
2563860 atggacgag:+	STM2453	100 STM2995	64 STM2453	100
3032603 atgtcctcgac:-	STM2887	100 STM0965	61.905 STM2887	100
2575502 atggaagcat-	STM2465	100 STM2038	72 STM2465	100
4267918 ttgcacgtctg+	STM4056	100	STM4056	100
726493 atggcactgc-	STM0661	100 STM0051	67 STM0661	100
774667 atggaacact+	STM0708	100 STM2251	60 STM0708	100
3044832 atgaaaaaal+	STM2900	100	STM2900	100
613302 atgtcgcgtat-	STM0552	100 STM4526	56.436 STM0552	100
849017 atgactgcac-	STM0784	100 STM3831	67 STM0784	95.12
836272 atgcgcgggt+	STM0771	100 STM0878	72 STM0771	100
1162017 atgaaaaag:-	STM1070	100 STM3645	62 STM1070	100
1261019 atgtcttttctc+	STM1177	100 STM2499	64.486 STM1177	100
1874413 atgaagcctt:-	STM1776	100 STM3041	79 STM1776	100
2024721 atgagtcgitt:-	STM1928	100 STM4188	63.107 STM1928	100
2081870 atgggcgcçç:-	STM1999	100 STM1865	66 STM1999	100
4079006 gtgaatcttaa-	STM3869	100 STM1185	62.857 STM3869	100
1512857 atgcgtttattg-	STM1435	100 STM2127	69 STM1435	100
2042029 atgcaagaa:-	STM1952	100 STM0445	66.981 STM1952	100
1768713 atgacgctatt+	STM1675	100 STM0598	74 STM1675	100
2778746 atgaagcaar-	STM2638	100	STM2638	100
797237 atggctgatar-	STM0730	100 STM0369	61.905 STM0730	100
1318689 atgaataaatl-	STM1230	100 STM3501	65 STM1230	100
4392450 atgaaagtatl-	STM4175	100 STM2222	70 STM4175	100
3456288 atgacagatg-	STM3286	100 STM1776	62.857 STM3286	100
2120307 atggaaatta:+	STM2041	100 STM2247	53.465 STM2041	100
4696752 atgactattcc-	STM4453	100 STM1560	73 STM4453	99.64
1481895 atggtagtaa:+	STM1394	100	STM1394	100
1279210 atgacgcaat+	STM1194	100 STM3767	62.136 STM1194	100
1800141 atgtttatgacç+	STM1705	100 STM0575	62.136 STM1705	100
3523763 atgagcaaaa:-	STM3355	100 STM0880	90 STM3355	100
3916745 atggttgagct-	STM3721	100	STM3721	100
1104141 atgagtggaar-	STM1009	100 STM2632	100 STM1009	100
1231588 atgaaaaaac:+	STM1143	100 STM2410	63 STM1143	100
4185863 atgacaacct+	STM3979	100 STM2427	61 STM3979	100
2815220 atgagcaacç:-	STM2673	100 STM4220	53 STM2673	100
4134793 atgattcctttt:+	STM3925	100 STM3273	65 STM3925	100
4115985 gtgggatcttc+	STM3906	100 STM1793	52 STM3906	100
1264453 gtgtttaaagc+	STM1181	100 STM1349	61.321 STM1181	100
3628841 gtggaccattt+	STM3477	100 STM2029	60 STM3477	100
3159693 atgaccagta-	STM3002	100 STM2571	63.208 STM3002	100
3376251 atggctggac+	STM3210	100 STM2388	67.327 STM3210	100
481020 atgtcactcat-	STM0427	100 STM2253	72 STM0427	100

4244745 atggcttatca -	STM4036	100 STM1569	84 STM4036	100
895464 gtgattgaattl -	STM0828	100 STM0891	80 STM0828	100
4189300 atggaacagc -	STM3982	100 STM3019	70 STM3982	100
2011434 gtggcagaaç -	STM1914	100 STM0286	68.627 STM1914	99.73
1087669 atggacaaat +	STM0996	100 STM3628	89.109 STM0996	100
3864660 atggttagagc +	STM3677	100 STM0101	83 STM3677	99.29
211024 atggttatgcg +	STM0179	100	STM0179	99.76
671012 atgccttaatt +	STM0608	100 STM0402	70 STM0608	100
3171652 atggcgaccç +	STM3011	100 STM2191	78.218 STM3011	100
4250138 atgaaaaagç -	STM4039	100 STM4040	68 STM4039	100
1988975 atgattgaattl +	STM1893	100 STM0669	63.462 STM1893	100
1640720 atgatcccaa -	STM1559	100 STM1843	93 STM1559	100
1665969 atgaaaatac +	STM1578	100 STM1763	89 STM1578	100
1667341 atgatacagtl +	STM1580	100 STM1761	78 STM1580	100
381030 atgcttttagtl -	STM0337	100 PSLT100	61.165 STM0337	100
1834328 atgacaacct +	STM1739	100 STM0812	90 STM1739	100
1899712 atgtctctgttl +	STM1800	100 STM4358	65 STM1800	100
1944570 atgacaggaa -	STM1847	100 STM3905	62.037 STM1847	100
1987416 gtgatagaatl -	STM1891	100 STM3750	62 STM1891	100
1757803 atgttcactga +	STM1663	100 STM1260	64.706 STM1663	100
538865 atggaacgtc -	STM0479	100 STM3508	81 STM0479	100
677304 atggaaaaai +	STM0613	100 STM4307	75 STM0613	100
632059 atgaataaaç +	STM0571	100 STM3773	73 STM0571	100
652565 atgttctttctc -	STM0591	100 STM0517	65.138 STM0591	99.7
386337 atgatggatgl +	STM0341	100 STM0344	66 STM0341	100
687642 atgtttggcaa -	STM0624	100 STM0058	79.208 STM0624	100
1628827 atgaacctag +	STM1552	100	STM1552	100
1893085 atgttgattal +	STM1793	100 STM0741	83 STM1793	100
1720867 atgaatgatgl -	STM1630	100 STM2478	73.077 STM1630	100
1981142 atggcggttaa -	STM1886	100 STM4460	62.385 STM1886	100
2028560 atgaaaattgl -	STM1933	100 STM2589	64.706 STM1933	100
3332580 atgaaaaaac +	STM3169	100 STM4054	92 STM3169	100
2843875 atggacgatc +	STM2692	100 STM2851	48 STM2692	97.73
3231855 atgtctgtaatl -	STM3069	100	STM3069	100
466391 atgaccagac +	STM0410	100 STM4203	72.816 STM0410	100
3315967 atgctgttctç -	STM3152	100 STM4533	88 STM3152	100
2978871 atgatcgaaa +	STM2832	100 STM2750	64 STM2832	100
305720 atggacatgl -	STM0266	100 STM3674	60.952 STM0266	100
4786225 atgagcatgg +	STM4529	100 STM2197	57.843 STM4529	100
3131938 atgctaaaaa +	STM2978	100 STM2356	66.99 STM2978	100
2849100 atgagtgaca -	STM2697	100 STM0256	70 STM2697	100
440065 atggagaagç -	STM0386	100 STM1170	55.769 STM0386	100
494244 atgatgttaatl -	STM0439	100	STM0439	100
3162698 gtgattgatga -	STM3004	100 STM4328	61.905 STM3004	100
4687602 atgtttgattal +	STM4445	100 STM4413	73 STM4445	100
1582126 atgctaaaga +	STM1504	100 STM3242	62.376 STM1504	100
4117213 gtggatttacg -	STM3908	100 STM4125	72 STM3908	100
2983368 atgctggagc +	STM2838	100 STM3315	75.49 STM2838	95.96
3710241 atgcgacttat +	STM3540	100 STM3541	84 STM3540	100
393930 gtgagaaccç -	STM0350	100 STM3983	64.078 STM0350	100
2974737 atgagtgaac -	STM2828	100 STM4188	87 STM2828	92.78
2289137 atgatcacca -	STM2191	100 STM3011	78.218 STM2191	100

2328481 atgagtctgg:-	STM2226	100 STM0834	56 STM2226	100
2234912 atggctaactt +	STM2140	100 STM2466	90.099 STM2140	100
2270265 atgaatcgta:-	STM2172	100 STM0350	64.151 STM2172	100
2305269 atgaaaacg:-	STM2204	100 STM3858	80 STM2204	100
2237542 atgaaaacg:+	STM2142	100 STM2421	66 STM2142	100
2272964 atgactcacg -	STM2175	100 STM3275	61.682 STM2175	100
3858681 atgaagcgg:+	STM3671	100 STM1373	65.347 STM3671	100
1005690 atgcagtttc:+	STM0930	100 STM3593	70.192 STM0930	100
4614324 atgagcgaat +	STM4369	100 STM2315	66.346 STM4369	100
3603872 atgctgtatgc -	STM3451	100 STM1255	66.981 STM3451	100
4606235 ttgtttgaccgt +	STM4362	100 STM0994	59.615 STM4362	100
3446031 atggcaacac -	STM3279	100 STM1937	64 STM3279	100
4841356 atgaccagc +	STM4583	100 STM2894	54.902 STM4583	100
2969556 atgtacgcac -	STM2820	100 STM2334	61 STM2820	100
2313244 atgacgatga +	STM2213	100 STM3089	59.804 STM2213	100
3271238 atgatgaaa +	STM3112	100 STM1799	62 STM3112	100
3222898 atgattcggc +	STM3061	100 STM1901	47.059 STM3061	91.96
821276 atgagcgtaa +	STM0756	100 STM3691	62.037 STM0756	100
889302 atggcattga +	STM0821	100 STM2648	61 STM0821	100
3203682 gtgaaacaa -	STM3042	100 STM4119	62.136 STM3042	100
3436919 atgaaggcat +	STM3267	100 STM2129	59.813 STM3267	100
873341 atgcacgaa +	STM0806	100 STM2120	63.81 STM0806	100
924854 atgagtaatgi -	STM0852	100 STM2994	78 STM0852	100
1470432 atgacgcattc -	STM1384	100 STM2316	65.049 STM1384	100
3397800 gtgagcagc +	STM3231	100 STM3827	61.386 STM3231	100
2914750 atggcacaa -	STM1959	100 STM2771	100 STM2771	100
3235034 atgcatccgtt +	STM3073	100 STM3200	63.107 STM3073	100
913779 atgaccac -	STM0843	100 STM2719	66.667 STM0843	100
433034 atggctgattc -	STM0378	100 STM4472	60.952 STM0378	100
501318 atgatgatac +	STM0446	100 STM3308	60.784 STM0446	100
4735478 atggatgaca +	STM4489	100 STM1466	60 STM4489	100
2844645 atgatgaact -	STM2694	100	STM2694	100
4795356 atgaagaga +	STM4535	100 STM0798	61.386 STM4535	100
4580371 atgggtgcagc +	STM4335	100 STM0593	62 STM4335	100
4566331 atgcagattg +	STM4320	100 STM4128	67.647 STM4320	100
4569408 atgcttgatgt -	STM4324	100 STM2170	64.151 STM4324	100
4582838 atgattaatcc -	STM4340	100 STM2316	64.486 STM4340	100
3043932 atgtcattttct -	STM2899	100 STM2392	55.882 STM2899	100
1877495 atgatgacc +	STM1779	100 STM4126	62 STM1779	100
2857418 atgacgctgt -	STM2709	100 STM0737	64.486 STM2709	100
2191663 ttgagaatca -	STM2107	100 STM1769	64.22 STM2107	100
3779462 atgccgcac +	STM3605	100	STM3605	100
3472758 atggcacata -	STM3303	100	STM3303	100
3270040 atgagcaga +	STM3111	100 STM1264	44.86 STM3111	100
3211681 atgaaacgat -	STM3052	100 STM1655	59.615 STM3052	100
1983919 atgtccagaa +	STM1888	100 STM1378	79 STM1888	100
1736954 atgaaaaagi -	STM1644	100 STM3693	62.857 STM1644	100
3529126 atgaaaatca +	STM3361	100 STM0823	69.231 STM3361	100
2133983 atggaaaca -	STM2059	100 PSLT096	56 STM2059	100
332532 atggatcgac +	STM0290	100	STM0290	100
2539008 gtgcctgaga -	STM2426	100 STM4492	59.223 STM2426	100
2730469 ttgacatatag +	STM2584	100 STM2137	65 STM2584	100

2606509 ttgattccgct:-	STM2492	100	STM0525	71	STM2492	100
2651368 atggaaata:-	STM2518	100	STM4396	53.465	STM2518	100
2492323 atgatcgcg:-	STM2380	100	STM3586	66	STM2380	100
2514039 atgatctatt:-	STM2400	100	STM3625	64.356	STM2400	100
1868986 atgccgata:-	STM1770	100	STM0219	56.731	STM1770	100
697863 atgcataact:-	STM0635	100	STM3582	60	STM0635	100
751322 atgaaaaa:-	STM0688	100	STM0322	65.347	STM0688	100
2478622 atgaaaaac:-	STM2365	100	STM2485	64.762	STM2365	100
P38268 atggaaca:-	PSLT046	100	STM4410	73.267	PSLT046	100
P18415 atggatgctg:-	PSLT025	100	STM0496	59.259	PSLT025	100
P00378 gtgttaagta:-	PSLT001	100	STM0820	62.617	PSLT001	100
P93918 atgactgagc:-	PSLT111	100	STM2984	62.037	PSLT111	99.45
P51692 atgagaaac:-	PSLT061	100	STM2536	61.538	PSLT061	100
P20314 atgaagcag:-	PSLT027	100	STM2933	61.165	PSLT027	100
P01155 gtgttatccct:-	PSLT002	100	STM3035	77.451	PSLT002	100
P01927 atgctcagaa:-	PSLT005	100	STM2435	57.692	PSLT005	100
R1673 -						
532396 atgcctaatt:-	STM0475	100	STM2481	87	STM0475	100
	STM0479	100	STM3766	76	STM0479	100
	STM0521	100	STM2007	60	STM0521	100
614164 agccgcaat:-	STM0555	100	STM2136	60.377	STM0555	100
	STM0585	100	STM2777	71	STM0585	100
	STM0621	100	STM0061	78	STM0621	100
	STM3274	41.176		STM3274	2.37	
	STM1049	80	STM0926	79	STM2706	21.65
	STM1820	58.416	STM3483	58	STM3483	3.94
	STM0489	63.725	STM4475	62.5	STM4475	36.33
	STM4210	82		STM4210	32.34	
	STM3744	60.194	STM4202	58.824	STM3744	7.57
	STM1015	70	STM2625	70	STM1015	60.6
	STM4214	65	STM4387	60.748	STM4214	33.36
	STM1457	100	STM2053	62.136	STM1457	96.17
	STM3474	61.905	STM2458	60	STM2458	14.95
	STM0713	61.165	STM1135	56.604	STM1135	11.64
	STM1974	64.151		STM1974	5.6	
	STM2036	43.564		STM2036	15.89	
	STM1380	100	STM2123	50	STM1380	60.76
	STM2542	59.223	STM1336	56.731	STM2542	24.31
	STM2944	59.048	STM2086	57.426	STM2944	50.97
	STM1008	79	STM2633	79	STM1008	19.8
	STM4522	61.538	STM3821	57.282	STM3821	21.04
	STM0887	63.81	STM4552	26	STM0887	28.95
	STM2732	98	STM2347	58.095	STM2732	96.2
	STM2289	55.238	STM2360	36	STM2289	32.82
	STM0605	73		STM0605	58.66	

	STM2694	77	STM4415	59.804	STM2694	68	
	STM2761	59.048	STM4262	55.14	STM2761	40.62	
	STM1394	58.095	STM2342	54.902	STM1394	12.42	
	STM4281	99	STM4281	76.238	STM4281	82.52	
	STM0782	41			STM0782	3.16	
	STM1963	57.692	STM0109	55.446	STM0109	4.03	
	STM0324	95	STM0325	95	STM0324	93.2	
203107	atgaccattgc+	STM0172	100	STM4230	73	STM0172	100
268931	atggcggcac+	STM0229	100			STM0229	100
1589548	atgatcggttta-	STM1511	100	STM3017	63	STM1511	100
4534387	atgaagatac-	STM4292	100	STM2785	71	STM4292	100
2508508	atgttgaatga-	STM2396	100	STM1387	71	STM2396	100
4080556	atgtctgtgtc-	STM3872	100	STM3478	51	STM3872	100
3556558	atgttcgaac+	STM3385	100	STM0449	72	STM3385	100
2112425	atgacgattct-	STM2034	100	STM2987	62.857	STM2034	100
2099685	atgatgattct-	STM2018	100	STM4273	61.538	STM2018	100
72400	atgaaagag+	STM0061	100	STM0621	85	STM0061	100
3474318	atgaatttga+	STM3305	100	STM2461	61.765	STM3305	100
3512206	atgctgtcga-	STM3343	100	STM1478	63.107	STM3343	100
109990	atggggatgg-	STM0095	100	STM2662	67	STM0095	100
178903	atgtcagaac+	STM0152	100	STM3064	63.889	STM0152	100
208922	atgaaactct-	STM0177	100	STM2119	64	STM0177	100
244362	atggcatcga+	STM0208	100	STM0208	66.981	STM0208	100
281656	atgattgccat+	STM0240	100	STM2597	63.063	STM0240	100
1602571	atgaccatga+	STM1524	100	STM1597	66.667	STM1524	100
711707	atgcaagag-	STM0648	100	STM0046	61	STM0648	100
737872	atgaattacc-	STM0672	100	STM3216	57.843	STM0672	100
782194	gtgaaaaga+	STM0716	100			STM0716	100
4810597	atgttcgagc+	STM4552	100			STM4552	100
2860342	atgaatcctc-	STM2715	100	STM2072	63.551	STM2715	100
2889108	atgaaaaagi+	STM2749	100	STM3306	64	STM2749	100
4817983	gtgggccagc+	STM4563	100	STM2928	50	STM4563	98.08
4852049	gtgcaattctc-	STM4593	100	STM0023	78	STM4593	100
338275	atgttaaattc+	STM0293	100	STM2767	61.321	STM0293	100
370629	atgcaggcta+	STM0326	100	STM0325	74	STM0326	100
1142213	atgtgtggac-	STM1053	100	STM2299	57	STM1053	100
4576757	atggcagcta+	STM4330	100	STM2191	65.347	STM4330	100
357550	atgctgaaaa-	STM0312	100	STM3277	74	STM0312	100
1131371	atgcaggata+	STM1045	100	STM0921	76	STM1045	100
1170688	atgatagcca-	STM1079	100			STM1079	100
1207146	atgtcgcaac+	STM1122	100	STM3190	66.981	STM1122	100
1245435	atgaaaaaa-	STM1157	100	STM3302	61.386	STM1157	100
1290762	gtggcagaa+	STM1205	100	STM2533	61	STM1205	100
1172720	atgaaaaca+	STM1081	100	STM0792	70	STM1081	100
3573269	gtgaaccagc-	STM3400	100	STM2556	59.406	STM3400	100
3607200	atggcaatcc-	STM3456	100	STM1679	60	STM3456	100
3649205	atgacactaa+	STM3493	100	STM0190	64.706	STM3493	100
3681359	atggcaagg-	STM3518	100			STM3518	100
3711498	gtgagtacatt-	STM3541	100	STM3540	84	STM3541	100
1047765	atgaaaaacta+	STM0964	100	STM1498	84	STM0964	100
4223992	atgtgcacatt-	STM4014	100	STM3208	53.774	STM4014	100
4286073	atgttgaaatt+	STM4075	100	STM3072	93	STM4075	100

4331955 atgacattatt+	STM4115	100 STM0844	69 STM4115	100
3005780 atgtcgatac+	STM2859	100 STM2562	74.257 STM2859	100
3060710 atgttaaaaai-	STM2917	100	STM2917	100
4323806 atggatcgca-	STM4108	100 STM3529	76 STM4108	100
2996544 atgagtggtt-	STM2850	100 STM2322	61.765 STM2850	100
3050120 ttgaaaacaa-	STM2908	100 STM0652	64.151 STM2908	100
3082475 atgagtggtt-	STM2942	100 STM3771	59.048 STM2942	100
2529715 atgttcaagg+	STM2413	100 STM0606	63.107 STM2413	100
2593462 gtgacggtta+	STM2480	100 STM1766	65.347 STM2480	100
1114447 atgtgtcttgct-	STM1026	100 STM2614	100 STM1026	100
4294230 atgagacga-	STM4085	100 STM1712	59.434 STM4085	100
4328380 atgaaagag+	STM4112	100 STM3858	70 STM4112	100
4529482 ttgatcctgat-	STM4287	100 STM4455	65.385 STM4287	100
4589166 atgagtccga+	STM4346	100 STM0029	49 STM4346	100
2535691 atgcctcacg-	STM2422	100 STM1913	59.406 STM2422	100
1343324 atgctgagtt+	STM1258	100 STM1646	66.346 STM1258	100
1558623 atgtctggag+	STM1480	100 STM3569	64.706 STM1480	100
2641709 gtgaaatcga-	STM2514	100 STM2515	70 STM2514	100
25798 atgaaaaaa+	STM0022	100 STM0545	76.699 STM0022	100
4617299 atggcaaga+	STM4373	100 STM2668	61.765 STM4373	100
4647786 gtgccacata+	STM4409	100 STM4446	63.208 STM4409	97.47
4658050 atgcgcattc+	STM4416	100 STM0739	63.462 STM4416	100
2379299 atgagtagtc-	STM2274	100 STM2290	66.337 STM2274	100
4741369 ttgcaaatc-	STM4492	100 STM3773	60.55 STM4492	100
4773283 atgcaacgg-	STM4517	100 STM0866	70 STM4517	100
1224038 atgatgacga+	STM1133	100 STM4433	65.686 STM1133	100
1414676 gtgagtctga+	STM1334	100 STM0775	60.185 STM1334	100
2468584 atggataccc-	STM2357	100 STM0400	73.267 STM2357	100
1340757 atgtcgcgcc+	STM1255	100 STM3451	68.627 STM1255	100
235261 atgaggcaat+	STM0198	100 STM2689	62.963 STM0198	100
1241165 atgaccatgt-	STM1153	100 STM0567	49.057 STM1153	100
1358235 atgactgaag-	STM1282	100 STM4581	62.745 STM1282	98.3
1505383 atgagttcatc-	STM1427	100 STM0011	66 STM1427	100
1247539 atgaaatacg-	STM1160	100	STM1160	100
1372814 atgcaaaag-	STM1294	100 STM1806	63.366 STM1294	93.39
4204822 atgaaaaag+	STM3997	100 PSLT011	67 STM3997	100
1391506 atgaacaag+	STM1311	100 STM4410	67.327 STM1311	100
1964357 atgtatatcgg-	STM1868	100 STM2586	100 STM1868	100
1524761 atggcaagc+	STM1449	100	STM1449	100
1457405 atgacatttc+	STM1373	100 STM2984	70 STM1373	100
1256538 atgcaggag+	STM1170	100 PSLT110	64.706 STM1170	100
1497372 atggaaacttt+	STM1416	100 STM1494	62.376 STM1416	100
4081795 gtgctcaaca-	STM3873	100	STM3873	99.05
2786289 atgattacag-	STM2646	100 STM0973	85 STM2646	100
279963 atgaccactc+	STM0236	100 STM1210	63.725 STM0236	100
458001 atgttgaatgc+	STM0401	100 STM1806	72.115 STM0401	100
4413920 gtgttaactttg+	STM4189	100 STM1771	62.5 STM4189	100
4513157 atgaagaga-	STM4273	100 STM0493	56.436 STM4273	100
1387260 atgacggcgc+	STM1306	100 STM2026	73 STM1306	100
1425015 atgaccctgtc+	STM1345	100 STM2913	61.538 STM1345	100
1515970 atggttcagc+	STM1439	100 STM2807	63.208 STM1439	100
2913162 atggaatgtai-	STM2770	100 STM2525	52.475 STM2770	100

2178580	gtgaagatac -	STM2097	100	STM3922	80	STM2097	100
2717472	atgaatcttgg -	STM2571	100	STM3002	63.208	STM2571	100
241232	atgctcgtcta -	STM0205	100	STM0105	63.81	STM0205	100
90411	atgaacaaat +	STM0076	100	STM1353	78	STM0076	100
170768	atgacgctgtt +	STM0147	100	STM3594	74.257	STM0147	100
3790050	atgcagggc -	STM3613	100	STM3635	62.5	STM3613	100
3687206	atgaaacaa -	STM3523	100	STM4025	76	STM3523	100
2413040	atgacattca -	STM2305	100	STM0158	62.617	STM2305	100
2654226	atgcaattgc -	STM2520	100	STM3955	61.386	STM2520	100
467482	atgcggcggc -	STM0412	100	STM1642	60	STM0412	81.55
617363	atgaaaatct -	STM0558	100	STM4205	82	STM0558	100
4833107	atggctcgcg -	STM4577	100	STM1646	63.303	STM4577	100
3854492	atgaaccggt -	STM3666	100	STM4279	89	STM3666	100
3778825	atgacgaata -	STM3604	100	STM3522	70	STM3604	100
3649897	atgaccaca -	STM3494	100	STM3961	60.577	STM3494	100
2398158	atgagcatca -	STM2290	100	STM1107	75	STM2290	100
2611945	atgacgcgcc -	STM2497	100	STM3747	80	STM2497	100
2449141	atgtcgagta +	STM2337	100	STM3242	72	STM2337	100
1107979	atgaaaaac +	STM1015	100	STM2625	100	STM1015	100
596011	atgaaaacgt +	STM0532	100	STM4466	72	STM0532	100
4645019	atgttaaaca -	STM4407	100	STM2119	58.824	STM4407	100
2762627	atgaccactc -	STM2616	100	STM1395	62.617	STM2616	100
3343491	atgagtaaca +	STM3179	100			STM3179	100
3639526	atgaaaaaa -	STM3484	100	STM2730	76	STM3484	100
2307354	atgtccagtt -	STM2206	100	STM3256	68	STM2206	100
2384928	atggcataca +	STM2278	100	STM3177	63.208	STM2278	100
2566326	atgcctgcatt -	STM2456	100			STM2456	100
4290173	atgaacagc +	STM4080	100	STM3241	74	STM4080	100
758102	atggccaaa -	STM0695	100			STM0695	100
1330417	atgacttgctt -	STM1242	100	STM1654	87	STM1242	96.85
3031395	atggattatca -	STM2886	100	STM0802	91	STM2886	100
4204182	atgaacgac +	STM3996	100	STM2187	63.725	STM3996	100
925468	atggctgttga +	STM0853	100	STM2459	67.29	STM0853	100
3614837	atgtcagcca +	STM3464	100	STM2383	63.462	STM3464	100
4408035	atggttgccc -	STM4187	100	STM0516	65.686	STM4187	100
1769673	gtggaatattc -	STM1676	100	STM0234	63.81	STM1676	100
3584936	atggcaagat -	STM3416	100	STM0960	54	STM3416	100
2280946	atgttaaagc +	STM2184	100	STM3222	66	STM2184	100
1827811	atgtttcgaca +	STM1731	100	STM0498	62.136	STM1731	100
4389833	gtgagtttata +	STM4173	100	STM0006	66.019	STM4173	100
2621363	ttgcgctctttt -	STM2505	100	STM2506	100	STM2505	100
3162155	atgctcactcc -	STM3003	100	STM2432	68	STM3003	99.91
3035246	atgtcattgcg -	STM2890	100	STM2891	100	STM2891	57.87
2140951	atgagcatta -	STM2065	100	STM1383	66.019	STM2065	100
3529828	atgaatgtcta -	STM3363	100	STM2040	48.515	STM3363	100
17026	atgaatccaa -	STM0016	100	STM0847	55.446	STM0016	100
618390	atggaatccc -	STM0560	100	STM3941	60.577	STM0560	100
57189	atgagtaaac +	STM0047	100	STM3201	56.311	STM0047	100
781568	atgacgactt +	STM0715	100			STM0715	100
1759587	atgtcgctgtt +	STM1666	100	STM1635	46.078	STM1666	100
4228619	atgagtcaaa -	STM4018	100	STM4017	84	STM4018	100
2524960	atgactgaca -	STM2408	100	STM0054	55	STM2408	100

2286484 atgggcagcæ-	STM2189	100	STM3882	74	STM2189	100
1449560 atgattccacæ+	STM1365	100	STM1542	63.81	STM1365	100
1858416 atgaaaattcç-	STM1763	100	STM1578	89	STM1763	100
1898002 gtgagtggtta+	STM1798	100	STM1200	64.423	STM1798	100
3181822 atgcgttactç-	STM3020	100	STM0611	66.972	STM3020	100
3114595 atgagttcattç-	STM2962	100	STM3698	74	STM2962	100
3166590 atgcactatcæ+	STM3008	100	STM0421	72	STM3008	100
4193020 atggaatcacæ+	STM3984	100	STM2027	64.356	STM3984	100
3709734 atgaaaaatç-	STM3539	100	STM0499	63.303	STM3539	100
105756 atgaagaactç-	STM0092	100	STM0452	65.094	STM0092	100
4132746 atgaaacgcæ+	STM3922	100	STM2097	80	STM3922	100
4111826 atgacgacçæ+	STM3903	100	STM4437	62.617	STM3903	100
1848736 atggctgccc-	STM1752	100	STM2098	77	STM1752	100
4369936 atggtttactçæ+	STM4153	100	STM0609	66.355	STM4153	100
1909494 atgtcccactç+	STM1808	100	STM1271	62.136	STM1808	100
121299 atggcaattgç-	STM0103	100	STM2251	62.963	STM0103	100
1839486 atgttgaaattç-	STM1745	100	STM3629	67.619	STM1745	100
2263470 atgaaatggtç-	STM2166	100		STM2166	100	
4187940 atggggcgtgæ+	STM3981	100	STM4098	79	STM3981	100
659921 atggcaatccæ+	STM0597	100	STM4202	67	STM0597	100
1803913 atgctttcaatt-	STM1710	100		STM1710	100	
1851517 gtgtctcagccæ+	STM1755	100	STM3504	58.416	STM1755	100
1686525 ttgctgtaagç-	STM1596	100	STM4227	60.377	STM1596	100
1711482 atgaatcgtaç-	STM1622	100	STM1150	70.874	STM1622	100
1752431 atgttgagaaç-	STM1657	100	STM3577	82	STM1657	100
1766753 atgtacattatæ+	STM1672	100	STM0294	62.376	STM1672	100
548844 atgaagccgç-	STM0490	100	STM1352	74.286	STM0490	100
686276 atgatttccgcç-	STM0622	100	STM0060	79	STM0622	100
3948288 atgaaaatgç-	STM3750	100	STM0149	74	STM3750	100
1668340 atgaaaccgçæ+	STM1581	100		STM1581	100	
1814131 gtggaattgttç-	STM1716	100	STM3492	65.049	STM1716	100
1698206 atgcgctactçæ-	STM1607	100	STM1333	58.824	STM1607	100
1643415 atgaaaattttç-	STM1561	100	STM0817	66.337	STM1561	100
1681090 gtggcaaaatæ+	STM1593	100	STM0747	59.615	STM1593	100
1707795 atggacatcaæ+	STM1619	100	STM2372	63.366	STM1619	100
1976842 atgacgctattæ+	STM1883	100	STM1801	59.615	STM1883	100
1794104 atggaacaatæ+	STM1701	100	STM2554	50	STM1701	100
1802684 atgttgagattç-	STM1708	100	STM1781	55.34	STM1708	100
2818563 atgttgataaç-	STM2677	100	STM3571	63.366	STM2677	100
3193638 atgaacaaaç-	STM3031	100	STM1043	57	STM3031	100
3244363 atgaaaacgç-	STM3082	100	STM0067	61.386	STM3082	100
486817 atgagcgctcç-	STM0433	100	STM2863	70.874	STM0433	100
515049 atggcccgtcæ+	STM0457	100	STM3962	68.317	STM0457	100
3772413 atgttttgacç-	STM3599	100	STM4301	68	STM3599	100
3209148 atgcagccaæ-	STM3050	100	STM4467	60.952	STM3050	100
3877183 atgtcatccgçæ+	STM3685	100	STM2206	66	STM3685	100
3979153 atgcgaacctæ+	STM3777	100	STM0889	59.406	STM3777	100
3129995 atgaaaaaaæ+	STM2976	100	STM3853	63.107	STM2976	100
3186011 atgacggaarç-	STM3025	100	STM1520	59.406	STM3025	100
3307126 atgaataaatç-	STM3142	100	STM0494	53.774	STM3142	100
3777223 atgctcaaccæ+	STM3603	100	STM1796	78	STM3603	100
3264250 atggctaaacæ+	STM3104	100	STM3660	60.194	STM3104	100

3888340	gtgattgtgat+	STM3693	100	STM0059	64.423	STM3693	100
3980690	atgcctttagtc-	STM3780	100	STM3253	59.804	STM3780	100
2810286	atgactacgc-	STM2668	100	STM2667	58	STM2668	100
2257099	atggcgcttta+	STM2160	100	STM1390	74.257	STM2160	100
2162361	atggataata-	STM2082	100	STM0293	53	STM2082	100
2197968	atgctggaag-	STM2114	100	STM3399	76	STM2114	100
2267953	atgctaatagc+	STM2170	100	STM4324	64.151	STM2170	100
3575708	atgttcgacgt-	STM3404	100	STM1101	89	STM3404	100
3781600	atggataaaa+	STM3607	100	STM1677	62.5	STM3607	99.67
1910881	atggcggata-	STM1811	100			STM1811	100
3834661	atgaagccgt+	STM3646	100	STM2370	66	STM3646	100
3719386	atgaacaag+	STM3549	100	STM3506	61.165	STM3549	100
3489615	atgagcaaa-	STM3326	100	STM3493	58.416	STM3326	100
4724536	atgcagccat+	STM4480	100	STM4160	64.356	STM4480	100
4567345	gtgcaacgtg-	STM4322	100	STM1773	56	STM4322	100
3476946	atgacgccgc-	STM3309	100	STM4438	60.952	STM3309	100
3412375	atgcacattac-	STM3244	100	STM3905	66	STM3244	100
3308787	atgcggatatt-	STM3146	100	STM2681	63.725	STM3146	100
2981004	atgaatcaag+	STM2835	100	STM1195	60	STM2835	100
2083810	atgtcactgac+	STM2003	100	STM0584	63.462	STM2003	100
2292676	gtgaaataca-	STM2195	100	PSLT061	60.194	STM2195	89.66
2296507	atgagataaa+	STM2198	100	STM3788	68.317	STM2198	100
2335361	atgaggcattt-	STM2234	100	STM3343	58.416	STM2234	100
2306224	atgagcaggc-	STM2205	100	STM1326	67.327	STM2205	100
3575208	atggctaaat-	STM3403	100			STM3403	100
3593143	atgggtcaga-	STM3434	100	STM3914	62	STM3434	100
3195554	atgctgaaatt-	STM3033	100	PSLT105	79	STM3033	100
946503	atgagtcgga+	STM0874	100	STM0408	63.208	STM0874	100
3360401	atgaccttattt+	STM3198	100	STM1975	85	STM3198	100
3254733	atgcctgaca+	STM3091	100	STM3016	77	STM3091	100
1170326	atgatgaaag+	STM1078	100	STM2683	65.686	STM1078	100
872649	atgtcgcaatt+	STM0804	100	STM4232	62	STM0804	100
922524	atgcttaacta+	STM0850	100	STM3629	66	STM0850	99.68
1179916	atgcaaatac-	STM1091	100	STM0194	60.748	STM1091	100
814120	gtgactgaca+	STM0745	100	STM3159	70.874	STM0745	100
861210	atggctcgcc+	STM0794	100	STM3704	57.944	STM0794	100
910198	atgacgactc-	STM0841	100	STM0736	70.874	STM0841	100
3500411	atgagccagc+	STM3331	100	STM2479	82	STM3331	100
3957628	atgccaactc+	STM3757	100	STM2513	66	STM3757	100
2808006	atgacaatga+	STM2665	100	STM4292	64.078	STM2665	100
2497896	atgcaagtttt-	STM2387	100			STM2387	100
4461701	atgatgaata+	STM4240	100	STM1695	54.369	STM4240	100
3584290	atgcagggtt-	STM3415	100			STM3415	100
1785327	atgcbgctgg+	STM1692	100	STM3630	64.706	STM1692	100
520862	atgaagctgg+	STM0462	100	STM2561	85	STM0462	100
4253407	Agtgaacgtt+	STM4042A	100	STM1664	64	STM4042A	92.2
787207	atgaaaaggt+	STM0721	100			STM0721	100
4360026	atggagacct-	STM4141	100	STM0651	64.078	STM4141	100
2551520	atgccaggcc+	STM2439	100	STM0189	62.5	STM2439	100
1105000	atgctccaag-	STM1011	100	STM2629	100	STM1011	100
4427281	atgataaaat-	STM4206	100	STM0559	70	STM4206	100
2865801	atgaacacgc+	STM2722	100			STM2722	100

1975533	atggcgggtg:-	STM1882	100	STM4104	68.932	STM1882	100
2859179	atgaggattg:-	STM2713	100	STM2714	100	STM2713	100
2869988	atgaactcat:-	STM2727	100	STM2728	90	STM2727	100
4297354	atgtcttaga:+	STM4088	100	STM0435	59.223	STM4088	100
3071785	atgggtaaac:-	STM2931	100			STM2931	100
1459296	atgaaccgta:-	STM1376	100	STM1377	90	STM1376	100
1450254	gtgatatactg+	STM1367	100	STM2643	60.577	STM1367	100
1522645	atgcctatga:+	STM1447	100	STM0153	60.952	STM1447	100
1143714	atgttcgtaga:-	STM1056	100	STM1241	74	STM1056	100
2575111	atggaggcg:-	STM2464	100	STM4243	59.804	STM2464	100
189965	atggattacg:+	STM0160	100	STM3664	68	STM0160	100
4414858	atggctcatg:+	STM4191	100	STM0520	31	STM4191	100
1953813	atggaattca:+	STM1856	100	STM1422	58.654	STM1856	100
1931746	atgactatca:+	STM1833	100	STM1185	55.446	STM1833	100
1969916	atggcttctt:-	STM1875	100	STM2690	58.824	STM1875	100
1966040	atgaatctgt:-	STM1869	100	STM0713	62.376	STM1869	100
2022857	atgattaattal+	STM1926	100	STM2423	57.426	STM1926	100
P16380	atgtcagggc:-	PSLT021	100	PSLT022	100	PSLT022	100
P76449	atgaaacgta:+	PSLT095	100	STM3051	61.165	PSLT095	100
P49866	ctgtggcagg:-	PSLT058	100	PSLT059	100	PSLT058	100
P76675	atgaagataa:+	PSLT096	100	STM4494	59	PSLT096	100
P01600	ttgatccttga:+	PSLT003	100	STM2875	89	PSLT003	100
P71602	atgagtacaa:+	PSLT089	100	STM2247	62.376	PSLT089	100
R21650	+	STM0976	60			STM0976	10.52
R14810	-	STM2560	60.377	STM3012	48	STM2560	16.42
R25762	-	STM3638	44.554			STM3638	15.11
R4848	+						
R2040	-	STM1284	39	STM1411	37	STM1284	12.49
R38118	+	STM3073	38.835			STM3073	13.61
		STM0637	100	STM0863	74	STM0637	100
		STM0657	100	STM0655	70	STM0657	100
		STM0740	100	STM1792	76	STM0740	100
		STM2600	100	STM0914	74	STM2600	100
2761154	atgccagca:+	STM2614	100	STM4116	59.406	STM2614	100
		STM2646	100	STM4146	59.434	STM2646	100
		STM2944	78			STM2944	46.18
		STM1383	43.564			STM1383	10.38
		STM2739	50	STM3256	37	STM2739	17.73
		STM2720	98	STM3938	47	STM2720	85.78
		STM2233	80	STM3548	62	STM2233	59.17
		STM2807	44			STM2807	3.86
		STM1835	62.857	STM1166	60.55	STM1166	6.97
		STM1099	59.633	STM4453	52.427	STM1099	33.31
		STM2718	95	STM0256	57	STM2718	74.42
		STM2701	94	STM4533	60	STM2701	83.7
		STM3755	99	STM3545	56.311	STM3755	73.2
		STM1506	100	STM3082	71	STM1506	66.92
		STM3865	56.311	STM0370	52.778	STM3865	28.03
		STM1032	56	STM1202	53.922	STM1032	10.25
		STM2708	88	STM1970	62.5	STM2708	81.3
		STM3639	67.327	STM0339	63.107	STM0176	47.93
		STM4051	61.111	STM3650	60.194	STM4051	21.59

	STM3369	60		STM3369	10.41		
	STM2722	99	STM2811	57	STM2722	90.7	
	STM2695	92	STM0038	64.22	STM2695	79.8	
	STM1192	62.5	STM1427	60.396	STM2942	28.11	
	STM0283	97	STM1683	84	STM0283	90	
	STM4325	62.376	STM2668	61.905	STM2668	8.92	
	STM1318	56.311	STM3051	53.922	STM1318	8.48	
	STM3657	99		STM3657	98.3		
	STM4025	61.538	STM3523	59.615	STM0164	17.45	
	STM3807	36.634		STM3807	5.81		
	STM1003	59.615		STM1003	5.75		
	PSLT012	96	STM2922	62.037	PSLT012	92.3	
	STM3656	100	STM0698	64	STM3656	97.3	
	STM0945	60	STM0740	50.98	STM0945	17.72	
	STM1557	54.902	STM4258	49.038	STM1557	15.78	
	STM4312	98	STM2105	64.078	STM4312	36.48	
	STM4317	95	STM0309	63.725	STM4317	89.5	
	STM3096	60.952	STM0979	52	STM3096	39.75	
	STM3639	62.385	STM4594	58.879	STM0300	32.97	
3541899	atgacaactc -	STM3371	100	STM1850	65.049	STM3371	100
721042	atggacaagc +	STM0657	100	STM0655	81	STM0657	100
755255	atgggtgatgt -	STM0691	100	STM2106	58.879	STM0691	100
4023363	atgaaaaata -	STM3822	100	STM3644	72	STM3822	100
3334422	atggacttga +	STM3171	100	STM4052	73.786	STM3171	100
2102014	atgcttgccac -	STM2020	100	STM0511	69	STM2020	100
4038836	atgaattaac +	STM3834	100	STM2281	62	STM3834	100
4064625	atgaaagtal -	STM3857	100	STM2862	67.647	STM3857	100
3987571	atgctggcctt -	STM3787	100	STM2283	78	STM3787	100
93518	atgcagcagc +	STM0079	100	STM4418	66	STM0079	100
152618	atgaatacac +	STM0129	100	STM1744	61.818	STM0129	100
193394	gtggagacta +	STM0163	100	STM0091	66	STM0163	100
141348	atgatggaaa +	STM0120	100	STM0084	62.376	STM0120	100
3513242	atgaaaacttt -	STM3345	100	STM2894	59.223	STM3345	100
3551925	atgttgatae +	STM3380	100	STM4290	61	STM3380	100
706871	atggcgttatt +	STM0644	100	STM4211	65.094	STM0644	100
729835	atgataaagg -	STM0665	100	STM0887	62.745	STM0665	100
761398	atggcaatcc +	STM0698	100	STM0242	74	STM0698	100
266991	ttgactactaa +	STM0227	100		STM0227	100	
1587805	atgatgacat -	STM1509	100	STM3376	63.81	STM1509	100
2179850	atgatgaattt -	STM2098	100	STM1752	77	STM2098	100
2213843	gtgttatcgg +	STM2125	100	STM2048	64.151	STM2125	100
295872	atgactatccc +	STM0255	100	STM3165	70.297	STM0255	100
343542	atggcggtag +	STM0300	100	STM0176	62	STM0300	100
2223137	atgacagaar +	STM2129	100	STM3887	71	STM2129	100
2861956	atgagcctga -	STM2719	100	STM0843	66.019	STM2719	100
2890113	atgatgattta +	STM2751	100	STM2834	60.396	STM2751	100
2910402	atgtccaactc -	STM2767	100	STM0722	77.228	STM2767	100
2945600	atgggactttt -	STM2795	100	STM2559	51.429	STM2795	100
1187288	atgaaacctg -	STM1099	100	STM1591	62.376	STM1099	100
2903354	atgaaaatttc +	STM2761	100	PSLT075	62.136	STM2761	100
2935567	atgaaaaaa +	STM2786	100		STM2786	100	
1177863	ttgacttcttc +	STM1089	100	STM1245	67.961	STM1089	100

3585995 atgaaagttc-	STM3419	100	STM1528	52	STM3419	100
3616277 atgggtctgg+	STM3466	100	STM0103	59.223	STM3466	100
3656186 atggaaagtg-	STM3499	100	STM2062	63	STM3499	100
1182107 atgaaaaagi-	STM1094	100			STM1094	100
1216156 atggagcctc-	STM1127	100	STM1887	61.386	STM1127	100
1247906 atggaaaag:-	STM1161	100	STM2972	59.615	STM1161	100
1291791 atgacaaaa:+	STM1207	100	STM0417	61.321	STM1207	100
1327207 atgctcaaac+	STM1239	100	STM2255	61	STM1239	100
1357407 atgttgatgtc-	STM1280	100	STM0019	56	STM1280	100
1065677 atgacggca:+	STM0980	100			STM0980	100
1125159 atgacagac:+	STM1038	100	STM0916	84	STM1038	100
4432888 ttggccaacg-	STM4211	100	STM0644	65.347	STM4211	100
4466526 atggcaacgc-	STM4245	100			STM4245	100
4522671 atgagccagt+	STM4282	100			STM4282	100
3070269 atgacagagt-	STM2928	100	STM4427	75.248	STM2928	100
4443199 gtggttattttg+	STM4223	100	STM1000	65	STM4223	100
4510273 atggatatca-	STM4270	100	STM1713	61.765	STM4270	100
4554949 atgaaacagt+	STM4306	100	STM2529	74	STM4306	100
2489836 atgaaacgtg-	STM2378	100	STM1197	73	STM2378	100
2548420 atgggacaa(-	STM2435	100	STM1450	59.434	STM2435	100
995486 atgaacaaa:-	STM0924	100	STM1044	70.588	STM0924	100
4243214 atgagtattcg-	STM4034	100	STM2532	70.588	STM4034	100
4429384 atggctgaga-	STM4208	100	STM1717	47	STM4208	100
4458601 atgtccggct(-	STM4235	100			STM4235	100
3055507 ttgacagtaa:+	STM2912	100	STM3367	63.107	STM2912	100
3094181 atggcgtaa(-	STM2950	100	STM4496	85	STM2950	100
973407 atgctgacag+	STM0902	100	STM1991	56	STM0902	100
1394819 atgatgcagc+	STM1315	100	STM3528	75	STM1315	100
2576559 atgatcattga-	STM2466	100	STM2338	68	STM2466	100
1320857 atggaattatc-	STM1232	100	STM0912	57	STM1232	100
1510975 atgaatcgcc-	STM1432	100	STM1485	62.745	STM1432	100
2055888 atgattatttal+	STM1967	100			STM1967	99.23
2354744 atgaaaagc(-	STM2256	100	STM2144	65.094	STM2256	100
4667890 gtgggagcc:+	STM4424	100			STM4424	100
4689330 atgaaactga+	STM4447	100	STM3767	63.462	STM4447	100
2430905 atgaccttaa(-	STM2321	100	STM1458	60.952	STM2321	100
2460270 atgagtaagc-	STM2348	100	STM3949	59	STM2348	100
2044688 atgacggtgc-	STM1955	100			STM1955	100
233960 atggctcact:+	STM0196	100	STM0023	72.115	STM0196	100
2023282 atgagctaca+	STM1927	100	STM3591	68	STM1927	100
1388221 atggataactl+	STM1307	100	STM0603	63.303	STM1307	100
1523360 atgtctgataa+	STM1448	100	STM2914	47	STM1448	100
4275341 atgaaaaaa:+	STM4064	100	STM4070	87	STM4064	100
3008960 atgaactggc+	STM2863	100	STM0433	71.569	STM2863	100
1527955 gtgtctactgc-	STM1452	100	STM3592	74	STM1452	100
2633708 gtgcgaaata-	STM2513	100	STM3478	73	STM2513	100
1425241 atgtcgcgtat-	STM1346	100			STM1346	100
1529884 atgagcgaa(-	STM1454	100	STM2533	54.455	STM1454	100
1508945 atggcaaca(-	STM1430	100	STM3886	68	STM1430	100
1454942 atgttaagcat+	STM1371	100	STM2691	61.765	STM1371	100
3014468 atgctcaaaa-	STM2869	100	STM2870	100	STM2869	55.05
1512349 atgtccgata(-	STM1434	100	STM3027	86	STM1434	100

1560612 atgttttactgg +	STM1482	100 STM1483	58 STM1482	100
2169917 gtgaaagtcc:-	STM2088	100 STM2083	61.165 STM2088	100
4002872 atggaacccc-	STM3800	100 STM3121	59.615 STM3800	98.4
2787297 atggcgactg +	STM2647	100 STM2028	62.745 STM2647	100
451484 atggcgagaa +	STM0397	100 STM3502	72 STM0397	100
286338 atggcgctca:-	STM0245	100 STM0510	76 STM0245	100
117235 atgaatgtga +	STM0100	100 STM2128	58.824 STM0100	100
82510 atgagtgagti-	STM0070	100 STM3983	67.647 STM0070	100
2040380 atgcaggaa:-	STM1950	100 STM1767	65 STM1950	100
1777721 atgctctgg:-	STM1683	100 STM2562	70 STM1683	100
3732333 atgtccgagc-	STM3563	100 STM0813	61 STM3563	100
1568387 atgcatcgtt:-	STM1490	100 STM1489	63 STM1490	100
3994511 atggatatcg:-	STM3793	100 STM4066	67.308 STM3793	100
405289 atgttgaaag +	STM0357	100 STM0564	62.376 STM0357	100
470947 atgcaggatg +	STM0416	100 PSLT108	63.208 STM0416	100
4455196 atgtcacacc +	STM4233	100 STM3701	57.692 STM4233	100
115433 gtggcgcaç-	STM0097	100 STM3370	65.714 STM0097	100
3404682 atggaatcgg-	STM3239	100 STM3625	72 STM3239	100
3637251 atgactaacg-	STM3481	100 STM0421	64 STM3481	100
389987 atgcattcca +	STM0345	100 STM0342	62.745 STM0345	100
2554592 atggcggaaç-	STM2442	100 STM2443	70.192 STM2442	100
567125 atgccagcç +	STM0507	100 STM1218	71.698 STM0507	100
667877 atgtcggtttai-	STM0605	100 STM2239	53 STM0605	100
2792540 atgagccagç +	STM2651	100 STM0918	66.667 STM2651	100
3370462 gtgaagattta +	STM3204	100 STM0460	61.905 STM3204	100
3417343 atgacgatga-	STM3248	100 STM0519	66.337 STM3248	100
3443340 atgactgaca +	STM3276	100 STM4477	64.078 STM3276	100
1129921 atgaaaaag +	STM1043	100 STM0920	74 STM1043	100
1106159 atggcttacc +	STM1013	100 STM2627	100 STM1013	100
2662916 atgagtcagti-	STM2529	100 STM4306	74 STM2529	100
2686261 atgacccttc +	STM2547	100 STM2248	61.538 STM2547	100
597119 atgaagcaaç-	STM0533	100	STM0533	100
2749427 gtgtttgctcat +	STM2599	100 STM3631	63.462 STM2599	100
4810110 atgacaaccc-	STM4551	100 STM0385	66.99 STM4551	100
3902388 atgaaaaata-	STM3707	100 STM3707	59.615 STM3707	100
2464308 atgtgttacgg-	STM2353	100 STM0889	69.608 STM2353	100
13509 atgggtaaaa +	STM0012	100 STM2539	67 STM0012	100
1820112 atgcaaacaç +	STM1723	100 STM2146	66.019 STM1723	100
2957153 atggcaatta +	STM2809	100 STM1226	70.297 STM2809	100
4263235 atggattctgt +	STM4051	100 STM1131	65.049 STM4051	100
708520 atgatcaggti-	STM0646	100 STM0563	65.686 STM0646	100
2573386 atggcgcaç-	STM2462	100 STM0593	70.874 STM2462	100
4343997 atgaatattcg +	STM4125	100 STM0256	65.347 STM4125	100
845230 atgcaggccç-	STM0779	100 STM3576	57 STM0779	100
835496 atgacctgtc +	STM0770	100 STM1340	69.608 STM0770	100
2952509 atgagcgcç +	STM2806	100 STM2948	66.019 STM2806	100
1419368 atggcgcttaç +	STM1339	100 STM0451	60 STM1339	100
3550565 atggatatcg +	STM3379	100 STM0973	62.037 STM3379	100
63413 atgtttatagç-	STM0053	100 STM0625	67 STM0053	97.65
42913 atgatgtttgg +	STM0036	100 STM3966	72 STM0036	100
1331665 atggaacgtc +	STM1245	100 STM1089	63.366 STM1245	100
2092968 atgacagcaç +	STM2010	100 STM1849	82 STM2010	100

4078521 atgtctgaattt -	STM3868	100	STM3165	67.327	STM3868	100
2125204 atgcatctggc +	STM2049	100			STM2049	100
4555715 atgcatgagtt +	STM4307	100	STM0613	62.5	STM4307	100
2004330 gtgaatattca +	STM1909	100	STM4118	61	STM1909	100
3534227 atggaacgat +	STM3367	100	STM3661	63.551	STM3367	100
3914528 atgagcaga: -	STM3718	100	STM3718	61.538	STM3718	100
4575067 atgagtattcg +	STM4329	100	STM0960	63	STM4329	100
1229723 atgaaacgct -	STM1141	100	STM3080	62.136	STM1141	100
4236558 atgagtcttac +	STM4025	100	STM3523	76	STM4025	100
4386981 atgaacaag: +	STM4170	100	STM0451	76	STM4170	100
2547557 atgaagagtt: -	STM2434	100	STM0888	62.136	STM2434	100
2123025 atggacagta +	STM2044	100	STM2365	76.699	STM2044	93.85
4540967 atgatgaaag -	STM4296	100	STM0234	69.903	STM4296	100
4106838 atggcggaa: +	STM3898	100	STM0541	56.863	STM3898	100
2051227 atgtacaccg +	STM1961	100	STM4299	50	STM1961	100
1809381 atgaaattgc: -	STM1713	100	STM4125	80.198	STM1713	100
4469117 atgcaagcg: +	STM4247	100	STM1802	69	STM4247	100
3486153 atgcagctca +	STM3321	100	STM2665	62.745	STM3321	100
483151 atgaaactttc -	STM0429	100	STM4015	61.165	STM0429	100
4182916 atgtttgatatt: +	STM3976	100	STM4564	62.376	STM3976	100
4165089 atgatgatgct +	STM3959	100	STM1270	61.538	STM3959	100
4150476 atgtttttgttai +	STM3942	100	STM1989	61.111	STM3942	100
4685754 atgttcctgat: +	STM4443	100	STM0847	56.863	STM4443	99.61
7396 atgcctgagtt -	STM0006	100	STM1003	66.337	STM0006	100
1265403 atgatcgag +	STM1182	100			STM1182	100
2058221 atgagtgcga +	STM1969	100			STM1969	100
3092510 atgacgacac -	STM2948	100	STM3772	60.194	STM2948	100
3157832 atgaaaaaa: -	STM3000	100	STM0144	62	STM3000	100
3183752 atgtctaaat +	STM3022	100	STM3243	65.421	STM3022	100
4298061 atgaaatacg -	STM4089	100	STM3526	67.29	STM4089	100
4180298 atgacgcca: +	STM3972	100	STM1238	64	STM3972	100
1676762 atgccgggta -	STM1588	100	STM0003	63.107	STM1588	100
1621339 atgtttaagag -	STM1544	100			STM1544	100
1647508 atggaaacta +	STM1566	100			STM1566	100
1911618 atgtatcaac: -	STM1812	100	STM0331	63	STM1812	100
1940011 atggaaaaa: +	STM1843	100	STM2129	89	STM1843	100
1982353 atgaatatgct +	STM1887	100	STM0844	67	STM1887	100
1997774 atgctgaaac +	STM1902	100	PSLT108	60.577	STM1902	100
566468 atgaacttca: -	STM0506	100	STM3614	65	STM0506	94.91
594293 atgtttacatc: +	STM0530	100	STM0680	62.385	STM0530	100
636828 gtgagacatg -	STM0577	100	STM3598	62.745	STM0577	100
1736042 atgagcaag: +	STM1642	100	STM2050	61.905	STM1642	100
1625953 atgactatccc +	STM1548	100	STM0404	65.686	STM1548	100
1817400 atgagccagt -	STM1720	100	STM4581	59	STM1720	100
1866078 atgtttaaacg +	STM1766	100	STM2480	66	STM1766	100
1906608 atggcattaa -	STM1805	100	STM1541	66	STM1805	100
1950014 atggctcaac +	STM1850	100	STM3408	63.725	STM1850	93.39
1759221 atgtctctatg +	STM1665	100			STM1665	100
539631 atgctgttaca -	STM0481	100	STM2308	63.81	STM0481	100
3327883 atgcatataa: +	STM3166	100	STM0618	62.745	STM3166	100
2840527 atgggaaga: +	STM2690	100	STM0793	62.037	STM2690	100
4787256 atgaccccgc: -	STM4530	100	STM4531	74	STM4530	91.93

443840 atgctgtggtr-	STM0392	100		STM0392	100
3286911 atgtttaaana-	STM3126	100	STM0394	74.757 STM3126	100
2713941 ttgaaaaaatl+	STM2567	100		STM2567	100
2933774 atgaagtggg-	STM2784	100	STM2785	93 STM2784	96.52
3323962 atgaaaaaal-	STM3163	100	STM0442	62.5 STM3163	100
908728 ctgaaaaagr-	STM0840	100	STM0842	88 STM0840	100
4006387 atgacaggar-	STM3803	100	STM0036	70.588 STM3803	100
2807396 atgacgcgca+	STM2663	100	STM4540	55.769 STM2663	100
2855569 atgagcgcac-	STM2703	100	STM2706	100 STM2706	100
2962950 atgagcgcac+	STM2814	100	STM2050	82 STM2814	100
2951585 atgacaacgt+	STM2804	100	STM4437	86 STM2804	100
3850215 atgatattgac-	STM3663	100		STM3663	100
3920615 atgctcgaatt+	STM3724	100		STM3724	100
3123486 atgattagcgt+	STM2971	100	STM1826	87 STM2971	100
3156419 atgtcgcaccc-	STM2997	100	STM3220	61.538 STM2997	100
2283863 atgttaacaa-	STM2187	100	STM3512	58.654 STM2187	100
2326308 atgattttaca+	STM2223	100		STM2223	100
2347349 atgcctgaag+	STM2246	100	STM1767	69.307 STM2246	100
1918460 atgcgaattct-	STM1820	100		STM1820	100
3589806 atgagcatgc-	STM3426	100	STM2071	64.423 STM3426	100
1022667 atgggtaaga+	STM0944	100	STM3603	53.465 STM0944	100
1011825 atgaaacaa-	STM0935	100	STM3901	64.706 STM0935	100
3594624 atggcagttgt-	STM3437	100	STM0053	61.111 STM3437	100
4588800 atgaccacac+	STM4345	100	STM0969	66.667 STM4345	100
4630909 atgcgctatta+	STM4391	100	STM1446	65.347 STM4391	100
3366883 atgacgccgc-	STM3201	100	STM2535	63.366 STM3201	100
3291457 atggatgcga-	STM3131	100	STM4509	70 STM3131	100
4633027 atggataccc+	STM4395	100		STM4395	100
4765060 atgaaacac+	STM4510	100		STM4510	100
4570830 atgatagttgt-	STM4325	100	STM3599	68 STM4325	100
429985 atgctgtttgc-	STM0375	100	STM4447	61.538 STM0375	100
2239505 atgaacgggc+	STM2144	100	STM0718	65.714 STM2144	100
2321744 atgacatctcc+	STM2219	100	STM0848	78 STM2219	100
2328888 atgccacaac+	STM2227	100	STM3359	55.14 STM2227	100
2195064 atgttttaagc-	STM2111	100		STM2111	100
2267225 atgaacctg-	STM2169	100	STM3562	61.905 STM2169	100
3879139 atgacgcagc+	STM3687	100	STM3027	69.307 STM3687	100
3782701 atgacgcagc+	STM3608	100		STM3608	100
3670013 atgaccgtat+	STM3511	100	STM2495	65 STM3511	100
3401714 atgattacgar+	STM3236	100	STM3260	60.952 STM3236	100
1984963 atgaaacc-	STM1889	100	STM2068	58.491 STM1889	100
1491026 atgaaggttc+	STM1409	100	STM2871	55.769 STM1409	100
786061 ttgatgaagt+	STM0720	100	STM2746	55.34 STM0720	100
879651 atgaagtggc+	STM0814	100	STM0659	59.804 STM0814	100
932913 atgcactttga-	STM0859	100	STM2996	62.264 STM0859	100
1153912 atgtcattaat+	STM1062	100	STM0838	70 STM1062	100
825463 atgatggaatl-	STM0761	100	STM1486	59.615 STM0761	100
874093 atggacagat+	STM0807	100	STM0808	57.843 STM0807	100
926696 atgcaaactg+	STM0854	100	STM0855	83 STM0854	100
1469417 atggctaattt-	STM1383	100	STM4305	68 STM1383	100
3397504 atggcggact+	STM3230	100	STM1492	88 STM3230	100
4624870 atgagtaaag-	STM4382	100	STM2791	61.165 STM4382	100

1963379	atgaaacacç +	STM1867	100	STM2585A	100	STM1867	100
1483337	atgacaacttt +	STM1396	100	STM0670	52.475	STM1396	100
433517	atgcgtttggc +	STM0379	100	STM3166	54	STM0379	100
2502024	atgagtaaat(-	STM2390	100	STM2485	60.194	STM2390	100
3621113	gtgaagaaa(-	STM3471	100	STM2377	26	STM3471	100
2102968	atgaaaaaa(-	STM2022	100	STM0880	61.905	STM2022	100
485311	atgacttcgçç +	STM0431	100	STM2204	58.491	STM0431	100
4631462	atggcacgttç +	STM4393	100	STM0437	61.165	STM4393	100
3592019	atgaaagca(-	STM3432	100			STM3432	100
4691690	atggccacgç +	STM4449	100	STM3925	60	STM4449	100
392349	atgaaaaagç +	STM0349	100			STM0349	100
3257886	atgatcaagc +	STM3095	100	STM4154	61.321	STM3095	100
1248441	atgcgattga(-	STM1162	100	STM1019	64.078	STM1162	100
3048407	ctggaaaaagç(-	STM2906	100	STM0487	61.538	STM2906	100
4007463	ggaatcttattç +	STM3806	100	STM0117	58.416	STM3806	100
4435578	atgaaatatal(-	STM4214	100	STM2263	59.223	STM4214	100
3613916	ctggcagggçç +	STM3463	100	STM4006	59	STM3463	100
503833	atgtcatacaçç +	STM0448	100	STM0912	59.804	STM0448	100
1331044	ttgtctcgtaaç(-	STM1243	100	STM1996	61	STM1243	100
1370443	gtgagcacgt +	STM1291	100	STM3499	60	STM1291	100
1371771	atgacaaacc(-	STM1293	100			STM1293	100
4813097	atgaacacgçç +	STM4558	100	STM4557	74	STM4558	100
4097542	ttggctactatçç +	STM3886	100	STM1430	68	STM3886	100
1968649	atgaaaaaa(-	STM1873	100	STM1112	86	STM1873	100
4516005	atgaaattttttç +	STM4276	100			STM4276	100
793876	atgccctggcç +	STM0727	100			STM0727	100
2257266	atgcgcgtag +	STM2161	100	STM4410	49.505	STM2161	100
2440045	gtgcccattççç(-	STM2329	100	STM1541	58	STM2329	100
1909739	atgaacagççç(-	STM1809	100	STM4007	54.455	STM1809	100
P49104	gtggataataçç +	PSLT057	100			PSLT057	100
P86566	atgagctttaaçç +	PSLT104	100	STM0960	73.148	PSLT104	100
P55216	atgacagacççç +	PSLT067	100	STM4074	73.077	PSLT067	100
P87285	atggcgggtatçç +	PSLT105	100	PSLT106	100	PSLT105	100
P35180	gtgaagtactçç(-	PSLT043	100	PSLT044	96	PSLT043	100
P77436	atgcgaaaaççç +	PSLT097	100	STM0347	62.5	PSLT097	100
R22020	+	STM3981	48.515			STM3981	13.24
R22546	+	STM1175	59.259			STM1175	27.04
R32462	+	STM0765	58.416	STM1761	56.436	STM0765	9.99
R12447	+						
R7453	+	STM3861	60.784	STM1962	60.185	STM1962	4.14
R44852	+	PSLT031	82	PSLT021	74	PSLT031	45.74
		STM2560	100	STM0710	84	STM2560	100
765577	atgtcagaatt(-	STM0701	100	STM3114	79	STM0701	100
		STM2597	100	STM0916	78	STM2597	100
		STM0828	100	STM1218	84.466	STM0828	100
		STM0854	100	STM0159	62.963	STM0854	100
		STM0863	100	STM0637	73	STM0863	100
		STM0380	63.964	STM4305	54	STM0380	18.9
		STM3467	24			STM3467	10.53
		STM3008	45.545			STM3008	20.64
		STM2697	92	STM2326	63.107	STM2697	46.1

	STM3622	63.725	PSLT036	62.136	PSLT036	32.57
	STM2357	62	STM2547	57.143	STM2547	49.13
	STM2132	98	STM0107	50	STM2132	76.28
	STM2479	100	STM3331	80	STM2479	56.32
	STM2699	90	STM3483	59.615	STM2699	86.5
	STM2912	64	STM0952	61	STM2912	47.16
	STM2762	57.843			STM2762	13.74
	STM1995	100	STM1473	88	STM1995	47.55
	STM4537	61.818	PSLT101	58.416	PSLT101	20.85
	STM2730	57.143			STM2730	13.84
	STM2940	75	STM1791	63.366	STM2940	43.48
	STM3203	58.416			STM3203	12.99
	STM4217	79			STM4217	46.4
	STM2803	66.019	STM1345	60.952	STM2803	18.51
	STM3690	100	STM0618	90	STM3690	96.5
	STM4127	60.377			STM4127	26.99
	STM0912	61.165	STM2221	58	STM2844	21.03
	STM2711	99	STM3683	60.784	STM2711	96.2
	STM2514	62.385	STM2461	61.765	STM2514	4.26
	STM4385	63.208	STM4410	61	STM4410	11.05
	STM1333	56.19	STM1534	49	STM1333	20.36
2858932	gtgaacaaa-	STM2712	100 STM1651	59	STM2712	98.6
		STM3485	48.077		STM3485	20.48
		STM2721	100 STM3375	63.366	STM2721	96.5
		STM4500	87 STM4512	77	STM4500	79.49
		STM4460	61		STM4460	17.11
		STM2058	49.505 STM3053	35.644	STM2058	11.87
		STM0814	64.423 STM3709	59.434	STM3709	25.27
211411	atgattcgca-	STM0180	100 STM2514	65.714	STM0180	100
285404	atgctgtctt-	STM0244	100 STM3054	60.377	STM0244	100
1607533	atgaaaaaa+	STM1530	100 STM0320	76	STM1530	100
1815717	atgagtgatg+	STM1718	100 STM3913	63.462	STM1718	100
4062490	atggctacgc-	STM3855	100 STM0932	67.619	STM3855	100
4098935	atgaccagca-	STM3887	100 STM2129	71	STM3887	100
4837041	gtgtcatcgt+	STM4580	100 STM3119	63.107	STM4580	100
2106002	gtgaatgagg-	STM2026	100 STM1230	61.165	STM2026	100
3602709	atggcaaca-	STM3448	100 STM2074	63	STM3448	100
2562104	atgaaacc+c	STM2451	100 STM3199	61.165	STM2451	100
3484362	atggcaacat+	STM3319	100 STM0817	71.287	STM3319	100
3526556	tgaaaaag-	STM3358	100 STM0817	74	STM3358	100
158627	atggtcgcgg+	STM0135	100 STM3878	72.816	STM0135	86.14
198142	atgttacgcc+	STM0168	100 STM0778	62.5	STM0168	100
217734	atgctatttca-	STM0187	100 STM0498	64.356	STM0187	100
262347	atgctgagtat+	STM0223	100 STM4294	64.706	STM0223	100
1585523	atgacacaa-	STM1507	100 STM0212	60.577	STM1507	100
1613798	atggcatatc-	STM1538	100 STM1787	80	STM1538	100
720335	atgaaaacct+	STM0656	100 STM0658	78	STM0656	100
		STM0701	100 STM3114	86	STM0701	100
4797463	atgatttctgat+	STM4538	100 STM0574	72	STM4538	100

2232994 atgtattcaag -	STM2138	100	STM2088	60.577	STM2138	100
2873545 atgagcaccæ -	STM2730	100	STM3484	76	STM2730	100
2895749 atgaaacagr -	STM2757	100	STM0088	64.356	STM2757	100
4834192 atgcctaaca +	STM4578	100	STM2197	82	STM4578	100
301290 atgaaggca: -	STM0260	100	STM1372	66.346	STM0260	100
355859 atgtaccagg +	STM0310	100	STM3266	62.727	STM0310	100
377628 atgaaaacg: +	STM0333	100	STM0334	74	STM0333	97.87
1163705 atgagagca: +	STM1072	100	STM3909	62.376	STM1072	100
1570318 atggatacga -	STM1492	100	STM1494	67.327	STM1492	100
371062 gtggtaatttt: +	STM0327	100	STM3028	54	STM0327	100
1148679 atgcgaatta: +	STM1059	100	STM0168	63.303	STM1059	100
1530507 atgctgaaaa -	STM1455	100	STM4193	91	STM1455	100
1227403 atgaatgagti +	STM1137	100	STM4122	63.462	STM1137	100
1275075 atgccccgtci -	STM1189	100	STM3687	64.22	STM1189	100
1298747 atgttaacaæ -	STM1215	100	STM1375	70	STM1215	100
1534929 atgactgatta -	STM1459	100	STM3581	62.963	STM1459	100
3588858 atggataaga -	STM3424	100	STM0268	63	STM3424	100
3619673 atggcaactg -	STM3468	100	STM1303	82	STM3468	100
3664117 atgcaattca: +	STM3505	100	STM1708	60.952	STM3505	100
	STM3530	100	STM2274	62	STM3530	100
3728304 atgaccctac -	STM3558	100			STM3558	100
1079524 atgagtgaa: +	STM0992	100	STM0106	63.107	STM0992	100
4266210 atgaagcaæ -	STM4054	100	STM3169	92	STM4054	100
4318333 atgaaagtaa +	STM4104	100	STM0033	77	STM4104	100
4346589 atgaaacagi +	STM4128	100			STM4128	100
3048146 atgatgtttac: +	STM2905	100			STM2905	100
3080832 atgagccaat -	STM2940	100			STM2940	100
4333148 atgtatcacg: -	STM4117	100	STM4048	68	STM4117	100
3010806 atgatatttcg -	STM2865	100	STM3323	59.223	STM2865	100
3063011 atggagttac: -	STM2920	100			STM2920	100
2504518 atgaagcttc: -	STM2392	100	STM3587	66.667	STM2392	100
978255 atgaaatctgtt: +	STM0908	100	STM1029	96	STM0908	100
2607763 atgctcgaaa -	STM2493	100	STM1108	86	STM2493	100
4406829 atgccgcgtg +	STM4185	100	STM0395	62.5	STM4185	100
4310873 atgacgcgta +	STM4100	100	STM3161	66	STM4100	100
4339424 atgaaaaac: -	STM4120	100	STM2483	60.194	STM4120	100
3067682 atgagcgcg: -	STM2925	100	STM3038	76	STM2925	100
2492904 atgaacaata -	STM2381	100	STM3748	60.396	STM2381	100
2557390 atgggtaaac -	STM2445	100	STM2946	62.963	STM2445	100
2343251 atgcccttca -	STM2241	100	STM1051	99	STM2241	100
1187946 atgcatgattc -	STM1100	100			STM1100	100
1380869 atgataaaaa -	STM1301	100	STM0137	75	STM1301	100
4595342 atgagtgccg +	STM4350	100			STM4350	100
4628089 atgtcattacc +	STM4386	100	STM3675	67	STM4386	100
4675819 atgaaaaca: +	STM4431	100	STM0517	59.048	STM4431	100
2359164 atgcgacta -	STM2260	100	STM1115	58.095	STM2260	100
4727938 atgaacgatc -	STM4483	100	STM1195	63.725	STM4483	100
4755572 atgatgatgg: -	STM4500	100	STM4004	61.765	STM4500	100
4791743 atgttaaagc: +	STM4533	100	STM1919	91	STM4533	100
1307596 atgcagtcgc +	STM1221	100	STM3491	69.903	STM1221	100
1516571 atgaagcgat +	STM1440	100	STM1044	68.317	STM1440	100
1234975 atgaagaaa: +	STM1147	100	STM1148	100	STM1148	83.76

3597377 atgtttgtgcc +	STM3442	100	STM3492	87	STM3442	100
2578502 atgaaacgta -	STM2469	100	STM2056	62	STM2469	100
1309528 atgatcggtcç -	STM1223	100	STM1225	65.347	STM1223	100
1406022 atggtagctat -	STM1326	100	STM2205	68	STM1326	100
4614860 atggcatgga +	STM4370	100			STM4370	100
1313166 atgggacagç -	STM1226	100	STM0878	85	STM1226	100
25011 atgaaaaagç +	STM0021	100	STM0543	77	STM0021	100
1376652 atgagcgagç +	STM1297	100			STM1297	99.43
1414969 atgcaaaaç +	STM1335	100	STM1132	52.941	STM1335	100
1507923 atgtggtcggç +	STM1429	100	STM3235	67	STM1429	100
3729367 atggaaaaç -	STM3560	100	STM0891	70	STM3560	100
132167 atgtcgaaga -	STM0112	100	STM3732	66.346	STM0112	100
752675 atggcacaç -	STM0689	100	STM2654	82.075	STM0689	100
4453437 atgatgattac +	STM4231	100			STM4231	100
4094562 atgacaaccç +	STM3883	100	STM2320	62.136	STM3883	100
240082 atgaaaacaç +	STM0203	100	STM1490	61	STM0203	100
510539 atgatggaca +	STM0452	100	STM0139	64.706	STM0452	100
459466 atgaattttctç -	STM0403	100	STM1178	62.745	STM0403	100
4463872 gtgaacaaaç +	STM4242	100	STM4238	58	STM4242	100
2485771 atgacagcaç -	STM2372	100	STM4428	75	STM2372	100
1404596 atgtggcaag -	STM1324	100	STM2858	63.725	STM1324	100
1436627 atgtatcagçç +	STM1355	100	STM0972	59	STM1355	100
1549523 atgctaataç -	STM1472	100	STM1372	71	STM1472	100
2157815 atgacagtgg -	STM2079	100	STM1114	60.748	STM2079	100
4059197 atgagggggaç -	STM3851	100	STM4268	65	STM3851	100
260113 atgtgtctgçç +	STM0221	100	STM1473	61.165	STM0221	100
2135286 gtgçgtgççç -	STM2060	100			STM2060	100
147397 atgttagtttgç +	STM0125	100	STM3279	62.376	STM0125	100
2475853 atgtgçggtat -	STM2362	100	STM0125	54	STM2362	100
3736781 atgacaaaçç -	STM3568	100	STM3211	67	STM3568	100
3451382 ttgcttaatccçç -	STM3282	100	STM0981	62	STM3282	100
2693485 atggcattgçç -	STM2554	100	STM0618	58.252	STM2554	100
1109013 atgaattacgçç +	STM1018	100	STM2622	100	STM1018	100
266430 atgçcctcaat +	STM0226	100	STM0472	61	STM0226	100
2746280 atggaccagçç -	STM1041	100	STM2594	100	STM2594	100
3929336 atgaactgtçç -	STM3736	100	STM0115	60.194	STM3736	100
3812323 atggçggtattçç -	STM3627	100	STM0848	81	STM3627	100
3723499 atgagtaactçç -	STM3553	100	STM2282	71	STM3553	100
3936181 ttgtatctgttgç +	STM3742	100	STM2956	71	STM3742	100
2458402 atgtcgataçç +	STM2345	100	STM3543	65	STM2345	100
2698175 atgcagcaçç +	STM2557	100			STM2557	100
2550968 atgaaaaagçç +	STM2438	100	STM0484	63.107	STM2438	100
897010 atgaagtçççç -	STM0830	100	STM2354	60.194	STM0830	100
640796 atggçgçççç -	STM0583	100	STM0768	67	STM0583	100
4708270 atggttatttca -	STM4465	100	STM4469	83	STM4465	100
2784237 atgactgtaaç +	STM2643	100	STM0820	73.267	STM2643	100
3358504 atgaatcaga -	STM3195	100	STM4044	59.406	STM3195	100
4470496 gtgtttcaaaa +	STM4248	100	STM0998	67.327	STM4248	100
2688308 atgtcacattgç +	STM2549	100	STM3073	62.745	STM2549	100
2150514 atgttagacaçç +	STM2071	100	STM3870	60.577	STM2071	100
610888 atgaaacçççç -	STM0549	100	STM2246	59.434	STM0549	100
4237348 atgçççççççç +	STM4026	100	STM2164	59.804	STM4026	100

952523 atgaataactt +	STM0880	100	STM3355	68	STM0880	100
776199 atgcccaccc +	STM0709	100	STM2253	60.55	STM0709	100
4278958 atgcacgttg +	STM4067	100	STM2976	73.786	STM4067	100
741645 atgacatca -	STM0681	100			STM0681	100
794716 atgcctgaag +	STM0728	100	STM2183	58.095	STM0728	100
4319418 atgagcttttt +	STM4105	100	STM2076	73.333	STM4105	100
4504838 atggaaaaa +	STM4266	100			STM4266	100
	STM4261	100	STM4264	61.905	STM4261	100
2696449 atgcttgacg +	STM2556	100	STM3207	64.348	STM2556	100
183004 atgaaactttt +	STM0155	100			STM0155	100
4382386 atgtctacaac -	STM4164	100	STM0217	58	STM4164	100
4234660 atggcagttat -	STM4023	100	STM3248	64.423	STM4023	100
4280005 atgctgctctg +	STM4069	100	STM0163	31	STM4069	100
3023702 atgctaaagt -	STM2878	100	STM0570	57.843	STM2878	100
1277232 ttgacacgtct +	STM1192	100			STM1192	100
1796280 atgttcagga +	STM1702	100	STM4368	60	STM1702	100
2806527 atggcacacaac -	STM2662	100	STM0095	67	STM2662	100
58746 atgcagatcc +	STM0049	100	STM4471	60.396	STM0049	100
1112989 atgaaaatgc +	STM1024	100	STM2138	57	STM1024	100
3977325 atgcgatacc +	STM3775	100	STM3616	48	STM3775	100
1491592 gtgttgcaact +	STM1410	100	STM4492	61.165	STM1410	100
1826333 atgaatatca +	STM1729	100	STM1729	63.366	STM1729	100
2868826 atgagatcgc -	STM2725	100	STM2724	62	STM2725	65.24
473495 atgaccatttt +	STM0420	100	PSLT108	61.165	STM0420	99.42
1754178 atgctgagatt +	STM1659	100	STM2265	62	STM1659	100
1855255 atgctgttttca -	STM1760	100	STM2007	65	STM1760	100
1923115 gtggatacca +	STM1825	100	STM1825	58.252	STM1825	100
1866721 atgaataatca +	STM1767	100	STM2246	69.307	STM1767	100
3152534 atgccccgca -	STM2995	100	STM1213	68.317	STM2995	100
3071455 atggcagcca -	STM2930	100	STM3274	53.333	STM2930	100
3062588 ttgatacctac +	STM2919	100	STM0864	62.5	STM2919	100
1202451 atgatgattttg +	STM1114	100	STM2981	58	STM1114	100
102272 atggcaactta -	STM0088	100	STM0945	78.218	STM0088	100
4140805 atggcagag +	STM3930	100	STM0400	76	STM3930	100
4123308 atgaattccac -	STM3913	100	STM2502	68.317	STM3913	100
4365158 atggctttaa +	STM4151	100	STM2851	59.406	STM4151	100
1913630 atggcacgca +	STM1815	100	STM0988	59	STM1815	100
1937459 atgctgttgat +	STM1841	100			STM1841	100
2017157 atgaccggtta -	STM1920	100	STM1364	61.538	STM1920	100
4414685 atggaactgc -	STM4190	100	STM4517	87.129	STM4190	100
486130 atgatgaacc +	STM0432	100	STM2485	61.682	STM0432	100
4253810 atgatccgca -	STM4043	100	STM2941	61.538	STM4043	100
4169513 atgatcgaaa -	STM3963	100	STM3964	100	STM3964	100
673711 atggattcaat +	STM0610	100	STM1216	60.396	STM0610	100
1829273 atgagcgttct +	STM1733	100	STM3059	65.385	STM1733	100
1664428 atgagtaaacc +	STM1577	100	STM1764	91	STM1577	100
1699958 atgcgtaatac -	STM1609	100	STM0395	66.667	STM1609	100
1722519 atgccattgac +	STM1631	100	STM2072	64.486	STM1631	100
1764102 ttgtacttcaa -	STM1670	100			STM1670	100
533612 atgaacaaa -	STM0476	100	STM3390	84	STM0476	100
1619606 atgaaaaga -	STM1543	100	STM2962	67	STM1543	100
1605100 atgacagtgc +	STM1527	100	STM2101	72.549	STM1527	100

1064821 atgaaaaata +	STM0979	100 STM3077	82 STM0979	100
679261 atgaaagcat +	STM0615	100 STM2790	63.107 STM0615	100
1834691 atggaaatgg +	STM1740	100 STM0621	61.468 STM1740	100
1626849 atgactataa -	STM1550	100 STM4450	66 STM1550	100
1654648 atggttggtt: +	STM1571	100 STM2885	63.889 STM1571	100
1695600 atgcgccagc -	STM1604	100 STM2428	67.961 STM1604	100
1729552 atggatttaa: +	STM1638	100 STM4293	56.311 STM1638	66.06
1992000 atggccattg: +	STM1896	100 STM1712	56.731 STM1896	100
1971770 atgttcgcat +	STM1878	100 STM0264	72 STM1878	100
3125652 atggcgaac: -	STM2973	100 STM4044	69 STM2973	100
3182381 ttgattaagag +	STM3021	100 STM4270	68.932 STM3021	100
3224511 atggcaaag: -	STM3062	100 STM2370	65 STM3062	100
3256111 atgtaccgta: +	STM3093	100 STM0838	59.615 STM3093	100
500751 atgatggcgg -	STM0445	100 STM3984	68 STM0445	100
3749482 atgatagaaa -	STM3581	100 STM4428	72 STM3581	100
3800831 atgaaaaga: -	STM3618	100 STM2269	63 STM3618	100
3863971 atgcgtaatc: +	STM3676	100 STM4387	75.248 STM3676	100
3899108 atgtcgtttct +	STM3704	100	STM3704	100
3113240 atgacaacgc -	STM2961	100 STM2960	86 STM2961	100
3142609 atgtcgggag -	STM2991	100 STM2450	69.608 STM2991	100
3200736 atgtctgaac: -	STM3040	100 STM1901	69 STM3040	100
3758265 tgggaaaggi -	STM3588	100 STM1211	51.485 STM3588	100
3134253 atgaccagcc -	STM2981	100 STM1466	77.228 STM2981	100
4560352 atggatacac -	STM4312	100 STM2281	66.019 STM4312	100
3939816 atgaaaaaa: -	STM3745	100	STM3745	100
3341457 atgcgaatttt: +	STM3177	100 STM4292	67 STM3177	100
3177220 atggtctctatt -	STM3016	100 STM3091	77 STM3016	100
2314230 atggtcaaatt +	STM2214	100 STM1343	65.094 STM2214	100
2177495 atgaatatctt: -	STM2096	100	STM2096	100
2254463 atgattaaagi -	STM2158	100 STM3790	61 STM2158	100
1018483 atgtcgcgga -	STM0940	100 STM2781	64.706 STM0940	100
3849330 atgtttgataa: +	STM3662	100	STM3662	100
4562853 atgccagccc +	STM4317	100 PSLT016	65.686 STM4317	100
3901367 ttgcctcagtt +	STM3706	100	STM3706	100
3768488 atgctcagtta +	STM3596	100 STM0564	63.462 STM3596	100
3661024 atgaaaacgc +	STM3503	100 STM3299	62.857 STM3503	100
3464585 atgaaactct -	STM3295	100 STM3796	58.416 STM3295	100
4824931 atgaaacgtg +	STM4569	100 STM3390	50.98 STM4569	100
397060 atgaaattcar -	STM0351	100 STM3391	73 STM0351	100
3452988 atgagtcgctc -	STM3284	100 STM0638	53.398 STM3284	100
3348366 atgcgtaaatt: -	STM3185	100 STM4166	63.107 STM3185	100
3267435 atgatgcgca -	STM3107	100 STM0863	58 STM3107	100
2966785 atgccattatt: -	STM2817	100 STM4323	60.377 STM2817	100
2278320 atgagtaagt +	STM2181	100 STM4538	55.34 STM2181	100
2322092 gtgaatacatt -	STM2220	100 STM2220	63.107 STM2220	100
2324396 atgcgacttg: -	STM2222	100 STM3616	63 STM2222	100
2249574 atgaacgaa: -	STM2154	100 STM2341	62.617 STM2154	100
2523658 atgttcaggtc +	STM2407	100 STM0189	64 STM2407	100
3589401 atgtctcgtgtt -	STM3425	100 STM0136	68.627 STM3425	100
3621794 atgtctcaaatt: -	STM3472	100 STM0536	71 STM3472	100
4607710 atggcgtgga +	STM4363	100	STM4363	100
3961227 atgaataatc: -	STM3762	100 STM1770	38 STM3762	100

3319464	atgtctcatctc+	STM3157	100	STM2838	64.762	STM3157	100
3222056	atgtctgcac+	STM3060	100	STM3120	60	STM3060	100
847137	atgatactga+	STM0782	100	STM0880	65.455	STM0782	100
890306	atggattatcg+	STM0822	100	STM1340	60.748	STM0822	100
2820826	atgggtgcat+	STM2679	100			STM2679	100
2160767	atgtccaagc-	STM2081	100	STM1156	64.151	STM2081	100
838379	gtgctaaatg:-	STM0773	100	STM4556	52.427	STM0773	100
883694	atgagtgagc-	STM0817	100	STM3586	77	STM0817	100
935253	atgattacgct-	STM0862	100	STM2176	61	STM0862	100
3480948	atgcttttagc+	STM3314	100	STM0663	64.151	STM3314	100
3390917	atgtctcac+	STM3222	100	STM2184	66	STM3222	100
4560575	gtggtaggca-	STM4313	100	STM4261	67.619	STM4313	100
415951	atgaaaactg+	STM0366	100	STM1546	59.091	STM0366	100
2721950	atggcgctgtt+	STM2576	100	STM2848	56	STM2576	100
2775609	atgagcaaa+	STM2635	100	STM3064	60	STM2635	100
4703957	atgacacac-	STM4459	100	STM0107	56.311	STM4459	100
645216	atgaaagag+	STM0586	100	STM2775	68.317	STM0586	100
4340517	atgttgaatac+	STM4121	100	STM3641	61.386	STM4121	100
4608993	atgaattcaa+	STM4365	100	STM3959	63.366	STM4365	100
1474032	atgacaaaa+	STM1388	100			STM1388	100
3556236	atgcgcatcg+	STM3384	100	STM2174	67.308	STM3384	100
4419837	atgagcaaaa-	STM4198	100	STM4438	89	STM4198	100
4471941	atgtggtatca+	STM4250	100	STM0834	67	STM4250	100
2875787	atgttgattat:-	STM2736	100	STM2378	66.337	STM2736	100
2936013	atgatgagcg+	STM2787	100			STM2787	100
4203119	atgaaatgta+	STM3995	100	STM2968	62.376	STM3995	100
3047622	atgaaaacc+	STM2904	100	STM1228	59.048	STM2904	100
4332310	atggcagtac+	STM4116	100	STM3858	69.307	STM4116	100
3072332	atgcccggta-	STM2932	100	STM4328	60.396	STM2932	100
1535750	atgactgttca-	STM1461	100	STM4314	65.347	STM1461	100
1581647	atgaacaata-	STM1503	100	STM3514	66.019	STM1503	100
2123319	atgaataacg+	STM2045	100	STM2038	82	STM2045	100
4631953	atgcaagttat+	STM4394	100	STM3434	69	STM4394	100
3598117	atgtacgtttgt-	STM3444	100	STM2271	58.654	STM3444	100
351350	atgaaaaact-	STM0307	100	STM1541	62.376	STM0307	100
1912000	ttgaggcaag-	STM1813	100	STM0767	91	STM1813	100
1880841	atgaaacgc-	STM1782	100			STM1782	100
1955426	atggacattc-	STM1857	100			STM1857	100
1975175	atgaataaaa-	STM1881	100	STM2775	74.038	STM1881	100
1936848	atgaacgac-	STM1839	100	STM1748	60.952	STM1839	100
2309758	atgtgtgggtt-	STM2209	100	STM3713	43	STM2209	100
		PSLT066	100	STM4256	81	PSLT066	100
		PSLT023	100	PSLT024	100	PSLT023	100
P63912	atggaacac+	PSLT079	100	STM1185	62	PSLT079	100
P27903	atgcccataa-	PSLT038	100	STM2112	63.889	PSLT038	100
		PSLT058	100	PSLT059	100	PSLT059	100
P86973	atgctgaagtt-	PSLT105	100	PSLT106	100	PSLT105	100
R19993	-	STM0169	54			STM0169	12.95
R4487	+	STM3749	62.617	STM4589	48.077	STM3749	26.58
R43935	+	STM3498	64.356	STM4517	52	STM3498	6.54
R26883	-	STM3859	50.495	STM4262	46.078	STM3859	21.17
R13481	+						

R2390	-	STM2371	61.386	STM2371	23.74
		STM0655	100 STM0657	70 STM0655	100
2741503	atggcaacg-	STM2590	100 STM0923	80 STM2590	100
		STM0741	100 STM1793	69 STM0741	100
		STM2611	100 STM0689	49.02 STM2611	100
1104567	atgaaaaatt-	STM1010	100 STM2631	100 STM2631	100
		STM2670	100 STM1347	78 STM2670	100
		STM3603	60.577	STM3603	7.68
		STM0774	60.185	STM0774	38.65
		STM2712	90 STM2713	44 STM2712	83.1
		STM2555	76 STM0880	67.308 STM2555	52.28
		STM1758	75 STM0285	64.706 STM1758	22.72
		STM3911	98 STM0757	83 STM0757	66
		STM2710	89 STM2457	66.667 STM2710	82.6
		STM0866	37	STM0866	14.87
		STM2188	60.748 STM0437	49.038 STM2188	13.97
		STM2732	75 STM2324	65.714 STM2732	71.6
		STM2716	90 STM1611	64.151 STM2716	84.3
		STM2694	78 STM1842	69 STM2694	52.09
		STM2996	63 STM4382	58.252 STM4382	31.11
		STM2767	65.347 STM4157	60.396 STM0721	18.36
		STM0437	99 STM0438	63 STM0437	97.9
		STM3069	55.882	STM3069	30.19
		STM2778	97 STM2779	72 STM2778	72.41
		STM3822	64.545 STM1656	61.165 STM1656	15.27
		STM0291	73 STM0292	72.549 STM0291	48
		STM0437	62 STM0438	61 STM0438	21
		STM0285	62.376 STM1422	61.386 STM0634	14.78
		STM1635	54.902 STM2140	43.564 STM1635	8.02
		STM2204	62.376	STM2204	6.62
		STM1386	64.151 STM0039	60.396 STM1386	27.14
		STM4518	100 STM3766	89 STM3766	66.02
		STM4458	65 STM2952	59.434 STM4458	44.9
		STM3552	100 STM2253	62.136 STM3552	69.34
		STM1150	57.143 STM2515	55.882 STM1150	29.14
		STM1885	64.078 STM2333	55 STM1885	11.44
223445	atggcgggg+	STM0190	100 STM3493	64.706 STM0190	100
740603	atgtttctatt-	STM0680	100 STM0530	70 STM0680	100
767016	gtgacaaac-	STM0702	100 STM4292	66 STM0702	100
4036618	atgtcgatgg+	STM3832	100 STM3530	74.257 STM3832	100
2107779	atgaataccg-	STM2028	100 STM2019	76.238 STM2028	100
3990554	atgaacacct-	STM3789	100 STM2459	66.346 STM3789	100
4052340	atgtttgaaga+	STM3845	100	STM3845	100
4086300	atgaaaacc+	STM3877	100 STM4281	63.725 STM3877	100
50411	atgccatttat-	STM0041	100 STM2535	63.107 STM0041	100

137559	gtgttcggcta +	STM0116	100	STM3901	81	STM0116	100
173216	atggataagg -	STM0149	100	STM3750	74	STM0149	100
207625	atgcgcaaa -	STM0175	100	STM0023	73	STM0175	100
3492828	atgaagcaa -	STM3328	100	STM2271	66	STM3328	100
3535795	atgagtctga -	STM3368	100			STM3368	100
693124	atgtctaagat +	STM0629	100	STM1837	87	STM0629	100
718073	atgaatcattc -	STM0654	100	STM1760	64.706	STM0654	100
749088	atgagtgagc +	STM0686	100	STM3661	71.287	STM0686	100
779463	gtgcagcga -	STM0712	100	STM0568	60.784	STM0712	100
284185	atgctactac -	STM0242	100	STM0698	74	STM0242	100
1617261	atggagacta +	STM1541	100	STM0151	67	STM1541	100
2197483	atgaatattct -	STM2113	100	STM2773	56.436	STM2113	100
4848896	atgagaaggi -	STM4591	100	STM0026	64	STM4591	100
318536	gtggatactg +	STM0278	100	STM1631	58.416	STM0278	100
367418	atgagtgaca +	STM0321	100	STM2443	61.765	STM0321	100
2856171	atgaatagtct -	STM2707	100			STM2707	100
323193	atgatgaaa +	STM0283	100	STM2397	53	STM0283	100
2899322	atgagtatctt +	STM2759	100	STM3860	67	STM2759	100
2929302	atgacgatgc +	STM2781	100	STM0940	65.347	STM2781	100
1176228	atgctccgg -	STM1087	100	STM1026	85	STM1087	100
1198999	atggctaaca -	STM1111	100	STM3983	52	STM1111	100
2911843	atgaagatgi +	STM0325	100	STM2769	100	STM2769	100
2946877	atgtccattgg +	STM2798	100	STM0564	60	STM2798	100
1190973	atgaagaaa +	STM1102	100	STM3680	69	STM1102	100
3605689	atgaaatcac -	STM3453	100	STM4397	66.346	STM3453	100
3644767	atgaaggcta -	STM3489	100	STM3488	86	STM3489	100
1323551	atgaaacgg -	STM1236	100	STM3822	57.282	STM1236	100
1399973	atgatgaaac +	STM1319	100	STM4122	67.308	STM1319	100
1233552	atgacatcac +	STM1147	100	STM1148	62	STM1147	100
1281676	gtgtctaagc +	STM1197	100	STM2378	73	STM1197	100
1303878	ttgtcggcctt +	STM1217	100	STM2630	87	STM1217	100
1349542	atgactacca -	STM1267	100			STM1267	100
3746754	atgagcgatc -	STM3578	100	STM0878	57.547	STM3578	100
1116900	gtggatcagg +	STM1030	100	STM0909	63.107	STM1030	100
4417656	atgctcggc -	STM4195	100	STM3486	63	STM4195	100
4441811	atgaaaaac +	STM4221	100	STM0417	65.049	STM4221	100
4503982	atgagtcaaa +	STM4264	100	STM0468	68	STM4264	100
4542129	atgagtacgc -	STM4297	100	STM3194	69.524	STM4297	100
2487801	atgaaaacgt +	STM2376	100			STM2376	100
4471396	atgaaaaaa +	STM4249	100	STM0659	61.905	STM4249	100
4525173	atgaaactac -	STM4284	100	STM0192	61.386	STM4284	100
4572381	atgtcaaaca -	STM4326	100	STM1469	65	STM4326	100
961025	atgaaaaaa -	STM0890	100	STM0887	76	STM0890	100
987869	atgggcgtac +	STM0916	100	STM2597	90	STM0916	100
1014615	atgttttgtgt -	STM0937	100			STM0937	100
4277908	atgaaggcc +	STM4066	100	STM3793	67	STM4066	100
4437122	atgcttatca -	STM4217	100	STM2060	63.208	STM4217	100
3046044	atggacatcc +	STM2902	100	STM1767	91	STM2902	100
4578259	atggccttaac -	STM4332	100			STM4332	100
950718	gtgaatgatgi +	STM0878	100	STM1226	85	STM0878	100
		STM0911	100	STM0912	100	STM0911	100
238491	atgagtaagti -	STM0202	100	STM3218	67.327	STM0202	100

420156 atgacagac:	STM0369	100 STM0730	61.765 STM0369	100
1426444 atgaacaga:-	STM1347	100 STM0760	83 STM1347	100
2029888 atgctgaaaa+	STM1935	100 STM1932	70 STM1935	100
2076528 atggactcag-	STM1993	100 STM0988	66 STM1993	100
2373593 ttgaaatacct-	STM2271	100 STM2958	72 STM2271	100
4677912 atgaaaaagr+	STM4433	100 STM1133	65.686 STM4433	100
2418677 gtgcattctatt-	STM2310	100 STM0595	64 STM2310	100
2447599 atgtcgacac-	STM2336	100	STM2336	100
2132654 atgtcttacia+	STM2057	100 STM3242	83.654 STM2057	100
3066486 ttgagtcaga:-	STM2924	100 STM3211	68 STM2924	100
242069 atggctaagc-	STM0206	100	STM0206	100
2776816 atggctatttc:	STM2636	100 PSLT048	63.725 STM2636	100
1420551 atgctgactttt+	STM1340	100 STM0770	69.608 STM1340	99.09
1168982 atggaactga-	STM1076	100	STM1076	100
3012994 atggtattgcc-	STM2867	100 STM4315	68.317 STM2867	100
4303206 gtgaaatcga-	STM4094	100 STM0209	63.81 STM4094	100
2036361 atgcaatttaa-	STM1945	100 STM3423	58 STM1945	100
3043285 atgaagaca:-	STM2898	100 STM1352	67.308 STM2898	100
1509994 atgctgctcga-	STM1431	100 STM4055	66 STM1431	100
1232085 atgaaactttt:	STM1144	100 STM4466	70.755 STM1144	100
3921940 atgcctgaatt-	STM3726	100 STM2206	69 STM3726	100
3912464 atgattattga:-	STM3716	100 STM2548	60 STM3716	100
1555168 atgaagctta:-	STM1478	100 STM3343	64 STM1478	100
1543929 atgtcaaaaca+	STM1468	100 STM4300	92 STM1468	100
1576853 atgaaaatca-	STM1498	100 STM0964	84 STM1498	100
3982237 atgcctgatta-	STM3781	100	STM3781	100
352488 gtgtctggtttg-	STM0308	100 STM0912	63 STM0308	100
412517 atgtctccgat+	STM0363	100 STM3172	64.762 STM0363	100
2095834 atgtggtttca:-	STM2013	100 STM2315	93 STM2013	95.48
2145691 gtgacagtta:+	STM2067	100 STM0592	61.386 STM2067	100
156834 atgtttgaacc+	STM0133	100	STM0133	100
2434626 atgctaattgg:-	STM2323	100 STM1726	71 STM2323	100
363137 atgagcgaa:+	STM0317	100 STM2545	61.111 STM0317	100
2066342 atgactcctc:	STM1980	100 STM2889	62.745 STM1980	100
1564973 atgaatatcg:+	STM1487	100 STM2420	78 STM1487	100
3602239 atgccacgtc-	STM3447	100 STM4454	61.765 STM3447	100
4055264 atgaaacgttt+	STM3847	100 STM2221	77.885 STM3847	100
440660 atgaccatctc:	STM0387	100 STM3490	63.81 STM0387	100
495199 atggcaactg-	STM0441	100 STM3588	64 STM0441	100
4509291 atggaaattttt+	STM4269	100 STM2043	59.804 STM4269	97.34
2419599 atgattgactg-	STM2312	100 STM4530	59.615 STM2312	100
3428579 atgagccaac+	STM3258	100	STM3258	100
4374951 atgttacaga:-	STM4156	100 STM2193	58.824 STM4156	100
1464794 atgaaaattttt:-	STM1381	100 STM3548	77 STM1381	100
2627428 atgttatcctct+	STM2512	100 STM4304	62.385 STM2512	100
561425 atgatagcga-	STM0500	100 STM1567	61.905 STM0500	100
4654331 atgatgaaa-	STM4413	100 STM0434	60.194 STM4413	100
3353859 atgtcagtaac+	STM3190	100 STM1456	78.431 STM3190	100
3389490 atgagccaac:	STM3220	100 STM3338	61 STM3220	100
3435722 atggctcaaa+	STM3265	100 STM2489	65.347 STM3265	100
3461416 atgagtttatttt-	STM3291	100 STM2318	60 STM3291	100
1872108 atgaggtcgtt-	STM1773	100 STM4322	66.981 STM1773	100

2408971 atgacgaaa+	STM2300	100		STM2300	100
2559197 atgaaatcgc-	STM2447	100		STM2447	100
4714157 atgacggtac+	STM4471	100	STM0049	60.784 STM4471	100
2945129 atgaccgccc+	STM2794	100	STM0322	50.943 STM2794	100
4767265 atgcctgattc-	STM4512	100		STM4512	100
4853394 atgttaataa-	STM4595	100	STM0399	60.377 STM4595	100
3842760 atgcaaaaagt-	STM3656	100	STM2284	62.617 STM3656	100
1849952 atgacgcagc-	STM1753	100	STM1767	66.667 STM1753	100
1786289 atgattatcttc+	STM1693	100	STM3708	63.462 STM1693	100
4259901 atgaccgtac+	STM4048	100	STM4117	67.961 STM4048	100
4205743 atgacgaga-	STM3998	100	STM2253	61.165 STM3998	100
879108 atgactcaac-	STM0813	100	STM4451	61.765 STM0813	100
863782 gtgactaaac+	STM0797	100	STM2363	60.577 STM0797	100
102660 atgatcaattc-	STM0089	100	STM3708	66.337 STM0089	100
4251421 atgaccctgg+	STM4040	100	STM4039	68 STM4040	96.19
704422 tgaagctgc-	STM0641	100	STM4408	49.038 STM0641	100
302117 atgaatcttaa-	STM0261	100	STM0983	60 STM0261	100
1063917 atggaatccc+	STM0978	100	STM3054	52 STM0978	100
2466293 atgaagaagc-	STM2355	100	STM2354	85 STM2355	100
2825412 atgcbgctga+	STM2685	100	STM0866	61.765 STM2685	100
70003 atgaaaatca+	STM0059	100	STM0623	66.337 STM0059	100
411417 atggctcgcg+	STM0362	100	STM4293	64.356 STM0362	100
1951727 atgccgccttt-	STM1854	100	STM3884	58.879 STM1854	100
3765982 atgaccaatc-	STM3594	100	STM1512	69 STM3594	100
	STM0710	100	STM2560	84 STM0710	99.8
4549896 atgatcaatgt-	STM4303	100	STM2785	61.905 STM4303	100
2030173 atggattccat-	STM1936	100	STM1908	63.107 STM1936	71.43
1778930 atgagcgaac-	STM1684	100	STM2146	61.321 STM1684	100
2777793 atgattaaagc-	STM2637	100	STM3860	57 STM2637	100
1228858 atgccgcgct-	STM1139	100	STM0028	67 STM1139	100
3109275 atgaccaact+	STM2958	100	STM2271	72 STM2958	100
369379 ttgtccggac+	STM2769	100	STM0324	99 STM2769	100
4379124 atgcagattc-	STM4161	100	STM3210	49 STM4161	100
3612043 atggacgaac-	STM3460	100	STM0665	59.615 STM3460	100
3467354 atgacaggta-	STM3297	100	STM3807	60.194 STM3297	99.52
2128739 atgaatacctt+	STM2052	100	STM2461	72 STM2052	100
4518886 atgagttgca+	STM4279	100	STM4036	66.337 STM4279	100
2063530 atgactgactc+	STM1975	100	STM0096	69 STM1975	100
1591729 atgtcgacga+	STM1512	100	STM3594	69 STM1512	100
4349954 atgattaaaa+	STM4130	100	STM0585	67 STM4130	100
672819 atgctcgaca+	STM0609	100	STM4153	66.99 STM0609	100
1838551 atgatgtaagc-	STM1744	100	STM3628	66.667 STM1744	100
4282198 atggctcgac-	STM4072	100	STM2977	73.267 STM4072	100
4174605 atgacaacgc-	STM3967	100	STM1368	67 STM3967	100
4157703 atggacgtttc+	STM3951	100	STM1075	66.337 STM3951	100
98785 atgatcctcat+	STM0085	100	STM3458	59.223 STM0085	99.62
3221566 atgcttatgtct-	STM3059	100	STM1733	65 STM3059	100
2059909 atgtctaataga+	STM1971	100	STM0213	63.303 STM1971	100
2544202 atgagtaaga+	STM2430	100	STM2440	76.238 STM2430	100
2546619 atgatttcagg+	STM2432	100	STM4110	83.168 STM2432	100
1815130 atgcattacc-	STM1717	100	STM3157	91 STM1717	100
3097228 atgcagtacc-	STM2951	100	STM1975	62.136 STM2951	100

3093296	atgtccacca +	STM2949	100	STM4541	71.963	STM2949	100
4222974	atgtataattc:-	STM4013	100	STM0573	93	STM4013	100
2008212	atgcgtaaat:-	STM1912	100	STM0736	62.617	STM1912	99.24
1751131	gtggaagcc:-	STM1656	100	STM2494	54	STM1656	100
1631871	atgatgagta:-	STM1554	100	STM4491	50.495	STM1554	100
1894856	atgtaccacg +	STM1795	100	STM1655	64.762	STM1795	100
1929501	gtgaccattg: +	STM1830	100	STM3771	64	STM1830	100
1951339	atgatgcggc -	STM1853	100	STM2907	67	STM1853	100
1995008	gtgaaggata -	STM1900	100	STM0994	60.784	STM1900	100
959571	atgcttgagta -	STM0888	100	STM2352	86	STM0888	100
582329	atgagtgaaa +	STM0520	100	STM3776	63.107	STM0520	100
1089596	atgtttgagaa -	STM0998	100	STM4248	67.327	STM0998	100
650732	atgccatctc +	STM0589	100	STM3340	73.077	STM0589	100
383596	atgtcccca:-	STM0338	100	STM0196	64.078	STM0338	100
1635947	atggattitaa +	STM1557	100	STM2242	61.905	STM1557	100
1841356	gtgatagcaa -	STM1746	100	STM1679	77	STM1746	100
1885946	atgaataacg +	STM1786	100	STM1539	87	STM1786	100
1926482	atggcgcaa: +	STM1827	100	STM0468	67.327	STM1827	100
1745649	atgcaaaca: +	STM1651	100	STM3882	72	STM1651	100
1771900	atgaaacaat +	STM1678	100	STM2894	60	STM1678	100
557791	atgtttagaaa -	STM0497	100			STM0497	100
3137161	atgaacgcttt +	STM2984	100	STM1373	70	STM2984	100
		STM2703	100	STM2706	100	STM2703	100
309937	atgaaaaaa:-	STM0270	100			STM0270	100
465160	gtggcacag: +	STM0408	100	STM2758	62.385	STM0408	100
3311665	atgagtcag:-	STM3148	100			STM3148	100
2976497	atgactgaca -	STM2830	100	STM1514	67	STM2830	100
3820249	atggctgttca +	STM3633	100	STM2191	66.019	STM3633	100
4799565	ctgaacaatc +	STM4540	100	STM3601	61.111	STM4540	100
3930291	atgaatcgct: +	STM3737	100	STM2757	61.765	STM3737	100
3333104	atgcgaatac +	STM3170	100	STM4053	82	STM3170	100
3167879	atgagtgagtr:-	STM3009	100	STM1256	63.462	STM3009	98.53
3238384	atgtctcacç -	STM3076	100	STM2474	85	STM3076	100
2992175	gtgactgacg -	STM2845	100			STM2845	100
3835421	atggcgacaç -	STM3647	100	STM2216	63.107	STM3647	100
3869511	atgacgaac:-	STM3680	100	STM1597	77	STM3680	100
3969653	atgacgccç:-	STM3768	100	STM4446	75.248	STM3768	100
3132706	atgaaagcg: +	STM2979	100	STM2414	61.538	STM2979	100
3191830	gtgcttcgtta -	STM3029	100			STM3029	100
2300357	atgggtcca:-	STM2200	100	STM3930	73	STM2200	100
2336605	atgcacaga:-	STM2235	100			STM2235	100
2309634	atgcggggaç -	STM2208	100	STM0849	51	STM2208	100
3925177	atgaaaaaa: +	STM3731	100	STM1895	66	STM3731	99.35
3593493	atggaaacta -	STM3435	100	STM4283	61.538	STM3435	100
4608717	atgcgtaagtr +	STM4364	100	STM0470	59.804	STM4364	100
3583260	atgcgccatc -	STM3414	100			STM3414	100
1019729	atgctgtcta: +	STM0941	100			STM0941	100
4610394	atgggtaaca +	STM4366	100	STM1992	56.436	STM4366	100
3416355	atgaaaatcg -	STM3247	100	STM2959	79	STM3247	100
3312641	gtgaacaga:-	STM3149	100	STM4036	68	STM3149	100
2979839	atgacacggç +	STM2833	100	STM2752	73.267	STM2833	100
4688704	atgccttcgat +	STM4446	100	STM3768	75.248	STM4446	100

4835658	gtggcaaaaç +	STM4579	100	STM4579	100
400848	atgagtcagtr +	STM0353	100 STM0498	81 STM0353	100
2991678	gtgttacacgç -	STM2844	100	STM2844	100
2308904	atgcacaacç +	STM2207	100 STM0264	65.766 STM2207	100
2172239	atgacagcaç -	STM2090	100 STM2421	88 STM2090	100
2174123	atgaaagcç -	STM2092	100 STM2092	61.165 STM2092	100
2247627	atgaaacgtr -	STM2152	100 STM2402	60.194 STM2152	100
1863941	atgagtcactt -	STM1765	100 STM1576	81 STM1765	97.49
3856637	atgaaagtaa +	STM3668	100 STM3857	58 STM3668	100
3742363	atgctttggtç +	STM3575	100 STM3478	51.923 STM3575	100
3505780	atgactacgtr -	STM3336	100 STM3681	65.049 STM3336	100
3395856	atggaactac +	STM3226	100 STM3162	77 STM3226	100
1487473	atggtgcaag +	STM1402	100 STM0724	61.386 STM1402	100
1203567	atggcgggta +	STM1116	100 STM2649	62.136 STM1116	100
858175	atgaacaccç +	STM0791	100 STM3478	63.107 STM0791	100
904817	atgaatatga -	STM0837	100 STM2015	79 STM0837	100
3219643	atgagcgta -	STM3057	100 STM0671	64.706 STM3057	100
1191826	atgggcaagt +	STM1103	100 STM3300	61.765 STM1103	100
853064	atgccggcaac +	STM0787	100 STM0787	60.577 STM0787	100
894623	atgccggtgga -	STM0827	100 STM3787	62.857 STM0827	100
1691644	atgaagaaal -	STM1601	100 STM3544	59 STM1601	100
3426631	atgcagctç +	STM3256	100 STM2206	80 STM3256	100
3350926	atgaaacgç +	STM3187	100 STM3260	61.765 STM3187	100
2578850	atgaataaac -	STM2470	100 STM2055	74 STM2470	100
2411575	atggaatggti -	STM2304	100 STM3349	66.981 STM2304	100
4072423	atgttaaataç -	STM3862	100 STM4579	64.078 STM3862	100
477658	atgccgaagç -	STM0424	100 STM2959	61.905 STM0424	100
2952102	atgagcattar +	STM2805	100 STM1032	61.905 STM2805	100
511564	atgcaaacar +	STM0454	100	STM0454	100
3522091	atgactaatgr -	STM0766	100 STM3353	100 STM3353	100
3591028	atggcagcç -	STM3429	100 STM0929	60.396 STM3429	100
3591828	atgaccgata -	STM3431	100 STM0401	59.615 STM3431	100
4639502	atgccgçgctc +	STM4402	100	STM4402	100
2248187	atgaaaaaal -	STM2153	100 STM2293	67 STM2153	100
2025903	atgactccct -	STM1930	100 STM0658	50 STM1930	100
1157385	atgaaaaaal +	STM1065	100	STM1065	100
2794378	gtgcgçgtgt +	STM2653	100 STM3577	56.731 STM2653	100
1519685	gtgaagtgtal -	STM1443	100 STM4248	61.905 STM1443	100
2807631	tgccgtttttta +	STM2664	100	STM2664	100
4305975	atgaaaaaal +	STM4096	100 STM4147	66.667 STM4096	100
4548860	atggacaata -	STM4302	100 STM2063	56.436 STM4302	100
505356	atgacagata +	STM0449	100 STM0945	65.049 STM0449	100
1825740	atggccgaac +	STM1728	100 STM1513	84 STM1728	100
1351953	atgggaaaaç +	STM1272	100 STM2935	55 STM1272	100
2853404	atgagcçgatt +	STM2704	100 STM0927	79 STM2704	100
280307	atgtcaatga -	STM0237	100 STM3685	61.905 STM0237	100
17486	atgaaaactt -	STM0017	100 STM0031	63 STM0017	100
2351603	gtgagtcçgg -	STM2251	96.386 STM3816	96.386 STM2251	96.39
408649	atgctaataç +	STM0359	100	STM0359	100
1180529	atgacactcc -	STM1093	100 STM3920	50 STM1093	100
3734419	atgacggçtg +	STM3566	100 STM4281	75.728 STM3566	100
1950368	atgatgaaaç +	STM1851	100 STM2791	50 STM1851	100

1928383	gtgatggaga-	STM1829	100	STM3698	57	STM1829	100
P68197	atgcataaat+	PSLT087	100	STM2589	52.941	PSLT087	100
P26140	ttggagtgcg+	PSLT036	100	STM4489	65	PSLT036	100
P71241	gtgaagaacr+	PSLT088	100			PSLT088	100
P29966	atgttgatact-	PSLT039	100	STM4125	61.905	PSLT039	100
P66060	atggcgagca+	PSLT081	100	STM4417	74.51	PSLT081	100
P14087	atgaaaaag-	PSLT018	100	STM4103	71.845	PSLT018	100
R19575	-	STM3973	62.037	STM1222	62	PSLT104	11.06
R11287	+	STM0291	62.162	STM3962	61	STM0291	11.71
R50790	-	STM2679	58.824	STM0435	58.654	STM2679	20.5
R44177	+	STM1124	61.905	STM0286	55.238	STM1124	22.8
R27297	-	STM2307	62.857	STM0322	59.633	STM2307	24.86
R8184	+	STM3705	60.577			STM3705	16.2
		STM2587	100			STM2587	100
777719	atgaataaac-	STM0710	100	STM2560	84	STM0710	100
		STM0760	100	STM2670	71.287	STM0760	100
919972	gtgccgcacc+	STM0848	100	STM1742	73	STM0848	100
		STM0855	100	STM3149	49.505	STM0855	100
		STM0891	100	STM1951	70.588	STM0891	100
		STM1020	70	STM2620	69	STM1020	59.51
		STM3945	99	STM0546	57.426	STM3945	11.74
		STM4262	61.165	STM0084	56.311	STM4262	20.21
		STM2514	100	STM2515	70	STM2514	84.39
		STM2883	100	STM0725	59.804	STM2883	71.49
		STM3639	71	STM0197	64.22	STM0339	42.07
		STM0724	60.194	STM2814	57.407	STM0724	12.38
		STM2516	100			STM2516	93.2
		STM2938	86	STM0177	56	STM2938	73.32
		STM2198	26.263	STM2514	23.232	STM2198	26.27
		STM0299	85	STM3633	62.617	STM0299	68.5
		STM3845	60.748	STM0887	60.194	STM4524	17.15
		STM0671	60.396			STM0671	4.8
		STM2701	94	STM4533	60	STM2701	83.7
		STM3506	44.118	STM3983	43	STM3506	10.52
		STM3040	65.347	STM0757	59.406	STM0757	41.29
		STM3057	54.808			STM3057	6.9
		STM3446	63.107	STM0166	60.396	STM0166	16.3
		STM3859	100	STM3183	61.386	STM3859	66.31
		STM2965	61.165	STM1871	59.406	STM2965	4.03
		STM3241	63.889	STM0318	57.692	STM0318	33.58
		STM4173	66			STM4173	7.87
		STM4201	64.762			STM4201	28.44
		STM2915	63.725	STM2521	53.774	STM2915	6.09
		STM0604	68	STM0268	52	STM0604	56.33
		STM2695	99	STM3445	64.762	STM2695	89.4
		STM2345	67.593	STM2531	63.107	STM3831	11.35
		STM2704	98	STM1050	76	STM2704	86.02
		STM0939	62.376	STM1343	61.765	STM2252	17.05
		STM2435	56			STM2435	11.9

	STM2566	59	STM1922	52	STM2566	8.94
	STM3765	53.922			STM3765	14.03
	PSLT054	86	STM1997	73	PSLT054	79.1
1162883 atgtacacttc -	STM1071	100			STM1071	100
4447638 atggctatggt -	STM4227	100	STM0107	62.264	STM4227	100
166329 atgagcgtta: -	STM0142	100	STM2343	52.427	STM0142	100
203874 atgatgcagc +	STM0173	100	STM4052	55	STM0173	100
226773 atgcagga: +	STM0192	100	STM0590	78.431	STM0192	100
287030 atgtctgagg: -	STM0246	100	STM0512	66.667	STM0246	100
3546807 atgcgatta: -	STM3375	100	STM2164	62.376	STM3375	100
716473 atgaataaga +	STM0652	100	STM2562	77	STM0652	99.84
744931 atgagactga -	STM0684	100			STM0684	100
3827364 atgaaccgct -	STM3639	100	STM0339	65.385	STM3639	100
4045825 atgaaacgc: +	STM3839	100	STM2774	58.252	STM3839	100
4066165 atgactaaaa -	STM3858	100	STM2204	80	STM3858	100
3824097 atgttgaaa: -	STM3637	100	STM3669	65	STM3637	100
4057689 atgaaaaaa: +	STM3850	100	STM2191	64.356	STM3850	100
4095477 atgaacatga +	STM3884	100	STM2759	64.706	STM3884	100
3909504 atgctaacca +	STM3713	100			STM3713	100
265401 gtgaaaaag: +	STM0225	100	STM1009	61	STM0225	100
141710 atgatcagca +	STM0121	100	STM1909	61.538	STM0121	100
2907332 atgcgtaaag -	STM2765	100	STM0297	84	STM2765	100
2940112 atgtatgattt: +	STM2790	100	STM0615	64.356	STM2790	100
1561789 atgcataaaa -	STM1484	100	STM3294	63.725	STM1484	100
3595546 atggaattag: -	STM3439	100	STM3551	49.02	STM3439	100
3636102 atgtttaaatt: +	STM3480	100	STM1130	71.287	STM3480	100
3667852 atggcgacct +	STM3508	100	STM3766	84	STM3508	100
3581907 atgagtcgta -	STM3411	100	STM3410	93	STM3411	100
3613702 atgcgcggt: +	STM3462	100			STM3462	100
3654367 atgattatgcc +	STM3498	100	STM2497	61.765	STM3498	100
1338441 atgacaaata -	STM1254	100	STM2936	60.577	STM1254	100
1366421 atgagcatag +	STM1287	100	STM0036	68	STM1287	100
2202650 atgatgaaat: -	STM2118	100			STM2118	100
3692400 atgggtgggc -	STM3528	100	STM3792	60.377	STM3528	100
3724566 atggctggtt: -	STM3554	100	STM4230	76	STM3554	100
2206847 atgagacgat -	STM2120	100	STM0126	90	STM2120	100
2858508 gtggatgagc -	STM2711	100			STM2711	100
328518 atgcgccgcr +	STM0286	100	STM1914	74	STM0286	100
358855 atgcgcaaa: +	STM0313	100			STM0313	100
2196291 atgtctcgtct -	STM2112	100	STM3963	71.698	STM2112	100
2232542 atggcacgtt +	STM2137	100	STM4157	77	STM2137	100
2879233 atgcctaacc +	STM2740	100	STM2763	66	STM2740	100
2894907 atggaaacgr -	STM2756	100	STM3201	60.577	STM2756	100
1135239 atgagcaaa: +	STM1048	100	STM2589	84	STM1048	100
1173525 atgcatattcg +	STM1082	100	STM3708	83.168	STM1082	100
942592 atgaaagaa: +	STM0869	100			STM0869	98.1
966725 ttgccctcaat -	STM0897	100			STM0897	100
986717 atgtctctgaa +	STM0914	100	STM2600	90	STM0914	100
1007527 atgaaggtag -	STM0932	100	STM2272	71	STM0932	100
2682751 atgaaattac: -	STM2543	100	STM1373	64.706	STM2543	100
2731901 gtgatgagat: +	STM2585	100	STM1216	57.426	STM2585	100
2625918 atgtactgtat -	STM2511	100	STM0141	64	STM2511	100

1074433 atgtcattgcc +	STM0986	100	STM4246	61.321	STM0986	100
1122747 gtgaagaca: +	STM1033	100	STM0912	88	STM1033	100
4436030 atggaaacat -	STM4215	100			STM4215	100
2998373 atgagttcact -	STM2851	100			STM2851	100
3065202 atggcatttga +	STM2922	100	STM3521	63.81	STM2922	100
2585500 atgtcccgtac: +	STM2474	100	STM3076	85	STM2474	100
1024974 atgtcaatca: +	STM0945	100	STM2660	71.845	STM0945	100
1076514 atggaacagt +	STM0989	100	STM4081	63.462	STM0989	100
1124000 atggaggtaa +	STM1036	100	STM0914	62.136	STM1036	100
4422824 atggataaac -	STM4201	100	STM0771	64.356	STM4201	100
4464958 atgcagcctg +	STM4243	100	STM1971	56	STM4243	100
4684955 atgatgaaag +	STM4442	100	STM1720	60.396	STM4442	100
2429502 atgaacatgc -	STM2318	100	STM2316	70	STM2318	100
2457130 atgtcgggaa -	STM2344	100	STM4385	67	STM2344	100
1204941 atgaaaaaal +	STM1117	100	STM1460	59.615	STM1117	100
1343908 atgctgagct: +	STM1259	100	STM0106	62.745	STM1259	100
1199919 atggaactta: -	STM1112	100	STM0013	68	STM1112	100
1158426 atggtagata: -	STM1067	100			STM1067	100
2648551 atgcaagca: -	STM2516	100	STM0322	61	STM2516	100
30512 atgcgtaacg +	STM0026	100	STM4591	64	STM0026	100
2071455 gtgccgcac: -	STM1987	100	STM3388	65.385	STM1987	100
2143918 atgaagatati +	STM2066	100			STM2066	100
2380233 atgttacgtaa +	STM2275	100	STM2746	71.154	STM2275	100
2072793 ttggcaggaa -	STM1989	100	STM2851	60.185	STM1989	100
2148385 atgaaaccac: -	STM2069	100	STM3235	69	STM2069	100
2386374 atgaaagaa: -	STM2280	100	STM0714	62.264	STM2280	100
2421644 atggacaattt +	STM2314	100	STM1880	61	STM2314	100
2469751 atgtatatgcc -	STM2358	100	STM2959	64.035	STM2358	100
1273090 atgaaaaca: +	STM1187	100	STM2662	64.423	STM1187	91.95
1258663 atgctcgaca +	STM1174	100	STM2497	61.468	STM1174	100
3601672 atggctcgtac -	STM3446	100	STM4009	64	STM3446	100
384939 atgtctatgaa -	STM0340	100	STM4258	62.376	STM0340	100
192421 atgaaaatga +	STM0162	100	STM0622	80	STM0162	100
497180 atgttcggaa: -	STM0442	100	STM0217	66	STM0442	100
4511469 gtgaataacg +	STM4272	100	STM3238	59.633	STM4272	100
4401770 atgccgattc: +	STM4182	100	STM3168	62.385	STM4182	100
163207 atgcacaccc -	STM0139	100	STM0452	81	STM0139	100
2410614 atgatgaaati +	STM2301	100			STM2301	100
1444163 atgaaaaatc -	STM1361	100	STM1360	65.049	STM1361	100
1514023 atgtcatcag: -	STM1436	100	STM0979	62.617	STM1436	100
454577 atgaccatc: +	STM0399	100	STM1320	62.376	STM0399	100
1492263 atgagttttact +	STM1410	100	STM1411	100	STM1411	71.5
4449197 atggatgtcat -	STM4228	100	STM3983	63.81	STM4228	100
368680 atgtcggaa: +	STM0322	100	STM2250	66.667	STM0322	100
195876 atggccgaa: -	STM0166	100	STM4091	63	STM0166	100
2083148 atgattaagt: +	STM2001	100	STM3609	70.476	STM2001	100
2518929 atgacaaagt -	STM2403	100	STM1330	63.725	STM2403	100
2414856 atgatctatcc -	STM2307	100			STM2307	100
2403022 atgcgtcaac +	STM2295	100	STM3132	64	STM2295	100
2685238 atgcatccga +	STM2546	100	STM4404	59.406	STM2546	100
4714879 atgaaacgca: -	STM4472	100	STM3603	58.252	STM4472	100
598465 atggcgacac: -	STM0535	100	STM4050	59.223	STM0535	100

2742843 atgcaggac-	STM2592	100	STM0921	77	STM2592	100
2750835 atggcaaca-	STM2602	100			STM2602	100
4821171 atgcctgcct-	STM4566	100	STM3478	63.366	STM4566	100
3896036 atgaacca-	STM3700	100			STM3700	100
3786474 atgactaaag-	STM3610	100	STM3264	67.327	STM3610	100
3676306 atgtcacagc-	STM3514	100	STM3534	76	STM3514	100
2523218 atgattatca+	STM2406	100	STM0421	65	STM2406	100
2598821 atgtcgtgcc+	STM2483	100	STM3053	64.706	STM2483	100
1037236 atggtagata+	STM0959	100	STM0018	61.321	STM0959	100
626882 atgcaggaat-	STM0569	100	STM2551	60.194	STM0569	100
4681731 atgacaaag-	STM4437	100	STM2804	86	STM4437	100
4804071 atgtctccag-	STM4544	100	STM2570	62.857	STM4544	81.45
3927395 atgctccag-	STM3734	100	STM1712	63.366	STM3734	100
3378878 atggttaagg-	STM3212	100	STM0777	62.376	STM3212	100
3425838 atgaaaaag+	STM3255	100	STM2204	70.297	STM3255	100
3928384 atgatccgca+	STM3735	100	STM4009	88	STM3735	100
4779015 atgagtgggg-	STM4524	100	STM2042	61.386	STM4524	100
138053 atgcgccgg+	STM0117	100	STM2654	72.642	STM0117	100
3033381 atgtttacgc-	STM2888	100			STM2888	100
804546 atgcagaac+	STM0736	100	STM0841	70	STM0736	100
4545267 atgagcatct+	STM4299	100	STM3750	63	STM4299	100
2816621 atgagcaag-	STM2675	100	STM4098	59.406	STM2675	100
2689332 atgagcattg+	STM2550	100	STM1497	60	STM2550	100
2151921 atgagcttca+	STM2072	100	STM1947	79	STM2072	100
366032 atgaataaaa-	STM0320	100	STM1530	76	STM0320	100
555286 atgaaattttg+	STM0494	100	STM4104	61.538	STM0494	100
1147971 atgtactatcc+	STM1058	100			STM1058	100
4564341 atgaaaagtc-	STM4319	100			STM4319	100
4274485 atgaaaaagi+	STM4063	100	STM2444	72	STM4063	100
733239 atgagccag-	STM0668	100	STM2314	49.02	STM0668	100
788820 atgaaaatct+	STM0723	100	STM2126	75.49	STM0723	100
2117939 atggcagaa+	STM2039	100	STM2039	60	STM2039	100
4557868 atgaaactca-	STM4309	100			STM4309	100
2041364 atgagtgcga-	STM1951	100	STM2351	82	STM1951	100
1770852 atggacaag-	STM1677	100	STM3607	62	STM1677	100
	STM4261	100	STM0274	62.136	STM4261	100
69680 atgcagaata+	STM0058	100	STM0624	75	STM0058	100
1349770 atgcttattcgt-	STM1268	100	STM3084	60.748	STM1268	100
4394051 atgcaaca-	STM4176	100			STM4176	100
2677401 atgacagaa-	STM2536	100	STM4477	70	STM2536	100
2120843 atgaataccg+	STM2042	100	STM4524	61.765	STM2042	100
4548447 atgttattagt-	STM4301	100	STM3599	68	STM4301	100
2026689 atgaaaaagi-	STM1931	100	STM0618	61.682	STM1931	100
1279957 atgagctttga+	STM1195	100	STM4483	62.963	STM1195	100
1758491 atgacaaa-	STM1664	100	STM4042A	64	STM1664	100
2809417 atgacatcgg+	STM2667	100	STM2668	58	STM2667	100
5887 atgctgattct-	STM0005	100	STM0686	62.857	STM0005	100
3995621 atggagacc+	STM3794	100	STM0864	80	STM3794	100
1551224 ttgaatcaaa+	STM1474	100	STM0071	71.154	STM1474	100
4247808 atgcagggtca-	STM4037	100	STM1570	90	STM4037	100
4177195 gtggatattac+	STM3969	100	STM4347	61.765	STM3969	100
4144290 atgacgga-	STM3936	100	STM3705	64.762	STM3936	100

3230590 atgtctaaaat -	STM3068	100	STM3682	73.267	STM3068	99.91
2064539 atgggcgata +	STM1976	100			STM1976	100
2543067 atggtttcatcæ +	STM2429	100	STM2367	66	STM2429	87.29
1889079 atgaatgcgc +	STM1789	100	STM1536	65.686	STM1789	100
3457815 atgaacaaa(-	STM3287	100	STM0145	57.426	STM3287	100
3122060 atggaaaccæ +	STM2970	100	STM3243	72	STM2970	100
4264700 atgattgaccr -	STM4052	100	STM3171	73.786	STM4052	100
4182092 atggctgtag; +	STM3975	100	STM1361	61.538	STM3975	100
4164405 atggatgaacg +	STM3958	100	STM0692	62.745	STM3958	100
4161476 atgaggtgtcæ -	STM3956	100	STM1893	63.107	STM3956	100
547876 atgcgctcaga +	STM0489	100	STM4578	62.264	STM0489	100
4361787 atgtctaaag; +	STM3445	100	STM4146	100	STM4146	100
2059209 atgagtaatct +	STM1970	100			STM1970	100
3090711 atgagcgaa; -	STM2947	100	STM2384	64.151	STM2947	99.65
3157371 gtgtcaataaæ -	STM2999	100	STM4496	71	STM2999	100
1780787 atgttgaaaa; -	STM1686	100	STM2269	63.462	STM1686	100
562339 atgctcattctt -	STM0501	100	STM3879	59.804	STM0501	100
588712 atgggatatct -	STM0526	100	STM1475	65.347	STM0526	100
635916 atgttgctcac -	STM0575	100	STM1831	64.356	STM0575	100
1726739 atgatcgctg; +	STM1636	100	STM1952	65	STM1636	100
1804699 atgcagcttaæ +	STM1711	100			STM1711	100
1856174 atgcacttct -	STM1761	100	STM1580	78	STM1761	100
1901542 ttggatgctgc +	STM1801	100	STM4062	64.078	STM1801	100
1932710 atgtttgctgg; +	STM1834	100	STM2129	60	STM1834	100
1957711 atggacgaa; -	STM1860	100			STM1860	100
2001771 atggcgttact -	STM1907	100	STM3090	65.421	STM1907	100
550301 atgaaatttcc +	STM0491	100	STM2332	63.208	STM0491	100
1609964 gtgaatcattc -	STM1533	100	STM1791	77.885	STM1533	100
1601080 atggacctga -	STM1523	100	STM4380	65.094	STM1523	100
1057378 atgtccgagc -	STM0973	100	STM3241	88	STM0973	100
685358 atgacgcagæ -	STM0621	100	STM0061	85	STM0621	100
1643887 atgaataaatl -	STM1562	100	STM3320	59.804	STM1562	100
1684076 atgttggtcaa +	STM1594	100	STM1561	63.366	STM1594	100
3769945 atgaccaaæ +	STM3597	100	STM0174	61.404	STM3597	100
3817910 atgccgcaac -	STM3631	100	STM1356	61.538	STM3631	100
4758178 atggaactgc +	STM4503	100	STM4113	65.347	STM4503	100
3924741 atgatgagcc +	STM3730	100	STM0850	77.228	STM3730	100
3105114 atggctcgcg -	STM2956	100	STM3742	71	STM2956	100
2821552 atgtcagaag +	STM2680	100			STM2680	100
436808 atggaatcct; +	STM0382	100	STM1154	76	STM0382	100
491767 atggaaatta; +	STM0437	100	STM0438	67.327	STM0437	100
522180 atgaagatag +	STM0463	100	STM2127	75.49	STM0463	100
3773312 atgagcatca -	STM3600	100	STM2425	58.491	STM3600	100
3846367 atgtatatcgg -	STM3660	100	STM3674	57	STM3660	100
3885613 atgaatagaa +	STM3691	100	STM0126	61.905	STM3691	100
4630043 atgagagccc -	STM4389	100	STM1556	50	STM4389	100
441390 atgatgcaac +	STM0388	100			STM0388	100
474573 atgcaataca -	STM0421	100	STM2406	65	STM0421	100
3322182 atgacggata +	STM3161	100	STM4100	66	STM3161	89.8
2993342 atgagcaattl -	STM2847	100	STM2327	71.287	STM2847	100
3852558 atgaaactgr; +	STM3664	100	STM0160	68	STM3664	99.85
3504908 atgatgatgg; -	STM3335	100	STM2124	65	STM3335	100

3433263 atgaaacaa-	STM3263	100 STM0231	75.248 STM3263	100
3316768 atggaacgct-	STM3153	100 STM2493	62.745 STM3153	100
414771 atgcctttgga+	STM0364	100 STM0191	88 STM0364	100
2949647 atggaggatc+	STM2802	100 STM3229	64 STM2802	100
2301410 atgcatattac-	STM2201	100 STM4448	61.165 STM2201	100
428101 atgcactcctc+	STM0373	100 STM1787	64.22 STM0373	100
2280050 atgcatccac+	STM2183	100 STM4106	62.745 STM2183	100
2166237 atgaaaataa-	STM2085	100 STM0478	59.804 STM2085	100
2236017 atgactgatat-	STM2141	100 STM3747	61.765 STM2141	100
2271662 atgctgtttta-	STM2174	100 STM3384	67.308 STM2174	100
3585359 atggcaaagc-	STM3417	100 STM2530	61.682 STM3417	100
2192600 atgaataagc-	STM2108	100 STM2107	29 STM2108	100
2265467 atgtctccatc+	STM2167	100	STM2167	100
302874 atgaaaccgc+	STM0262	100 STM0055	51 STM0262	100
3808099 atgactcagc+	STM3624	100 STM3821	67.327 STM3624	100
3716105 atgagtgaac+	STM3546	100 STM1569	57.798 STM3546	100
3476154 atggataaatl-	STM3307	100 STM0007	62 STM3307	100
4627425 atgaaattac+	STM4385	100 STM2344	67 STM4385	100
4711673 atgattattggr+	STM4468	100 STM3080	65 STM4468	100
4844220 atgaaataca+	STM4587	100	STM4587	96.93
3933721 atggctcaag+	STM3740	100 STM0937	74.286 STM3740	100
3467774 atgaccggttt+	STM3298	100 STM2898	46 STM3298	100
3396756 atgaaatacc+	STM3228	100 STM3286	64.423 STM3228	100
3517947 atgtttgtgaa+	STM3349	100 STM3348	76 STM3349	100
3432242 atgaactcatt+	STM3262	100 STM2919	68 STM3262	100
3394744 atggctacgc+	STM3225	100 STM0769	64.706 STM3225	100
692727 atgtatgttgcc+	STM0628	100 STM4467	65.385 STM0628	100
201352 atgaaacata+	STM0170	100 STM2069	58.491 STM0170	100
788106 atgaatgattc+	STM0722	100 STM2767	64.706 STM0722	100
4587072 atgagcgaa+	STM4344	100 STM3040	62 STM4344	100
1489443 atgaaacctg+	STM1405	100 STM2290	58.416 STM1405	100
1598855 atgatggattc+	STM1521	100 STM2253	72.277 STM1521	100
826323 atgagtcgtat-	STM0762	100 STM0609	60.396 STM0762	100
874947 gtgggacctc+	STM0808	100 STM4397	59.223 STM0808	100
927468 atggagcgttc+	STM0855	100 STM0854	83 STM0855	100
4776197 atggaatttta+	STM4521	100 STM4520	34 STM4521	100
3276814 atgctattttta-	STM3117	100 STM4040	47 STM3117	100
526612 atgaaacctg+	STM0469	100 STM4264	60.577 STM0469	100
3116655 atgacgactc-	STM2965	100 STM4154	59.615 STM2965	100
3251341 atgggtataa+	STM3088	100 STM3089	100 STM3089	56.25
1962271 atgtttctctta-	STM1866	100 STM1378	53.465 STM1866	100
4510787 atggctgtggr+	STM4271	100 STM2109	66.355 STM4271	100
4436504 atgaaactca-	STM4216	100 STM4014	62.136 STM4216	100
4513468 atgaatgacc-	STM4274	100 STM3610	61.165 STM4274	100
1123453 atggctgacc+	STM1035	100 STM0913	60.194 STM1035	100
3587983 atggcaaagc-	STM3422	100 STM1510	47 STM3422	100
1105460 atgaacaaa-	STM1012	100 STM2628	100 STM1012	100
4816786 atggtaaagc+	STM4562	100 STM2339	50 STM4562	100
1645396 atgtttacttat+	STM1564	100 STM2995	58.716 STM1564	100
2860745 atgaaagtgc-	STM2717	100 STM1721	48.544 STM2717	100
686569 atgaaaataa-	STM0623	100 STM0059	66.337 STM0623	100
1030565 atggccaaa-	STM0953	100 STM0954	73 STM0953	100

2860538	atgacgcttg:-	STM2716	100	STM1102	53.922	STM2716	100
163827	atgaggtata:-	STM0140	100	STM1901	64.706	STM0140	100
319767	gtgaatgaat:+	STM0280	100	STM1284	58.416	STM0280	100
212360	gtgctaatacat:-	STM0181	100			STM0181	100
441608	atgccaacca:+	STM0389	100	STM1399	35	STM0389	100
24039	atgaaaaaa:+	STM0020	100	STM4596	65	STM0020	100
3320885	gtggctttttta:-	STM3160	100	STM1913	45	STM3160	100
1950670	atgttcgcgcgt:+	STM1852	100	STM3255	58.879	STM1852	100
1672440	atgaaaaagi:-	STM1585	100	STM1673	69	STM1585	100
526758	atgcaggtgtt:+	STM0470	100	STM4364	59.804	STM0470	100
1935912	atgtgtggcat:-	STM1838	100	STM1997	59.804	STM1838	100
1645634	atgaaatcga:+	STM1565	100	STM0131	60	STM1565	100
845508	atgttagagtt:+	STM0780	100	STM2970	56.311	STM0780	96.15
P32320	atggatttcttg:-	PSLT041	100	STM1353	60.194	PSLT041	100
P77943	gtgcgtaaat:+	PSLT098	100	STM0770	71.569	PSLT098	100
P66869	gtgataaaaa:+	PSLT083	100	STM2275	51	PSLT083	100
P83946	atgaaaatga:+	PSLT103	100	STM3730	61.165	PSLT103	100
P45022	atggaaaaata:+	PSLT052	100	STM0120	50.98	PSLT052	100
P73220	atgaaacggt:+	PSLT092	100	STM0706	64.423	PSLT092	100
R14014	+	PSLT002	62	STM2857	47.525	PSLT002	20.78
R8419	+	PSLT041	62.376			PSLT041	40.62
R3051	-	STM0772	32			STM0772	10.45
R3894	+						
R49253	+						
R42667	-	STM2448	65.347	STM1824	64.078	STM3493	11.2
2852990	ttgttgacacc:+	STM2703	100	STM2110	63.725	STM2703	100
		STM0910	100	STM1031	79	STM0910	100
985449	atgaaaacc:+	STM0912	100	STM1033	80	STM0912	100
		STM2960	100	STM2961	78	STM2960	100
		STM2971	100	STM1826	79.208	STM2971	100
		STM0925	100	STM2589	100	STM0925	100
		STM2082	64	STM0442	61	STM2082	12.33
		STM0643	64.356	STM3384	56.881	STM3384	51.14
		STM2253	62.376	STM3818	62.376	STM2253	32.15
		STM4533	60.396	STM0927	58.824	STM0927	31.24
		STM1987	67.327	STM0401	62.857	STM4551	22.39
		STM3567	57.692			STM3567	35.34
		STM4589	61.468	STM4110	59.406	STM4215	30.11
		STM1473	100	STM1995	89	STM1473	55.15
		STM3069	44	STM1578	43.564	STM3069	19.23
		STM2730	67	STM3484	67	STM3484	37.5
		STM3275	60.377			STM3275	24.29
		STM2705	77	STM0685	60.577	STM2705	36.61
		STM1679	39			STM1679	31.44
833220	atggaaagtc:+	STM0054	99	STM0768	99	STM0768	93.4
		STM1869	100	STM0908	78	STM1869	89.31
		STM1751	60.952	STM0189	59.223	STM1751	23.4
		STM0410	59	STM3171	58.416	STM0410	27.6

STM2890	62.963	STM1668	58.416	STM1668	43.61
STM1544	56			STM1544	29.64
STM2746	62.136	STM4260	59.633	STM0972	29.42
STM1614	63.81	STM3970	58.095	STM2877	27.24
STM1795	60.185	STM2259	56.863	STM2259	21.07
STM4502	86	STM0941	61.765	STM4502	73.47
STM2696	91	STM0350	61.765	STM2696	85.2
STM2310	61.682			STM2310	10.28
STM2708	100			STM2708	90.8

1878708 gtcctgatat +	STM1780	100	STM2987	61.165	STM1780	100
124117 atgctaaaac -	STM0106	100	STM0878	82	STM0106	100
3508003 atgagtacttc -	STM3338	100	STM1132	73	STM3338	100
3542399 atgggtggcga -	STM3372	100	STM2851	58.252	STM3372	100
252815 atgaataactct -	STM0214	100	STM3208	66.346	STM0214	100
742912 atgacaccaç -	STM0682	100	STM1488	69	STM0682	100
3562261 atgacgaaar +	STM3390	100	STM0476	84	STM3390	100
278608 atgctgggatt +	STM0235	100	STM2285	55.446	STM0235	100
1593722 atgaaactac +	STM1515	100	STM3176	62	STM1515	100
2053616 atgaaaaaaç -	STM1964	100	STM2838	66	STM1964	100
3906248 atgatcatcgt +	STM3710	100	STM2578	60	STM3710	100
2105208 atgaaaaaaç -	STM2025	100	STM0591	66	STM2025	100
2053151 atgaaaaaac +	STM1963	100			STM1963	100
2109690 atgctaacgg -	STM2031	100	STM3782	62.376	STM2031	100
2081160 atgttcgct -	STM1997	100	PSLT054	73	STM1997	100
56689 atgagtgactç +	STM0046	100	STM0648	61	STM0046	100
95061 atgaaaaaaç -	STM0082	100	STM0918	64	STM0082	100
3478151 atgcaaacgç -	STM3311	100	STM0161	90.196	STM3311	100
375715 atgaaactgg +	STM0331	100	STM1812	71	STM0331	100
1157808 atgaagaga +	STM1066	100	STM1255	50.962	STM1066	100
1197270 atgatgaaaç +	STM1109	100			STM1109	100
1240489 atgaataaaaç +	STM1151	100	STM0222	60.396	STM1151	100
1284265 atgggcagta +	STM1200	100	STM1798	65.094	STM1200	100
1306756 atgtattacgg +	STM1220	100	PSLT030	63.551	STM1220	100
1221358 atgaaaatca +	STM1131	100	STM4051	65	STM1131	100
1271557 atgaaaagaç -	STM1185	100	STM3370	76	STM1185	100
1296476 gtgaataaaatç +	STM1212	100	STM1576	68.317	STM1212	100
3698734 atgaaaaagç -	STM3533	100	STM2292	66	STM3533	100
3740943 atgaaaaaaç +	STM3572	100	STM3765	58.416	STM3572	100
4822210 atgccgttggç +	STM4567	100	STM3541	63	STM4567	100
1347384 atgacgctgtç +	STM1264	100	STM3323	55	STM1264	100
1368358 atgattaataa -	STM1289	100			STM1289	100
4826470 atgaaatcca -	STM4571	100	STM3690	50.495	STM4571	100
2799 atgcgagtgt +	STM0002	100	STM4101	76	STM0002	100
2887356 atggaactca +	STM2746	100	STM4495	61.468	STM2746	100
2904897 atgttaataatç -	STM2762	100			STM2762	100
4807986 atgagtctgç -	STM4549	100	STM1179	68.317	STM4549	100

4846346 atgcgcatcg +	STM4589	100 STM4230	70 STM4589	100
329476 atgatggcag +	STM0288	100 STM0657	64.151 STM0288	100
2906919 ttgcaggcgg -	STM2764	100 STM0298	77 STM2764	100
2938818 atgattctgatç +	STM2789	100 STM3058	92 STM2789	100
1183644 atggtaagtt:-	STM1095	100 STM3183	62.857 STM1095	100
2501562 atgcgtcagg -	STM2389	100 STM3982	63 STM2389	100
2538784 atgaaactttt +	STM2425	100 STM2253	64.356 STM2425	100
2589166 atgaaatttac +	STM2478	100 STM3158	62 STM2478	100
1028356 atgtcaagtc -	STM0950	100 STM3761	85 STM0950	100
1067464 atgactgaatç +	STM0981	100 STM3282	62 STM0981	100
1110556 atggcgcacç +	STM1020	100 STM2620	100 STM1020	100
1031581 atgcgctcgg -	STM0955	100 STM2123	61 STM0955	100
2707616 gtgagcgacç -	STM2564	100 STM4058	67 STM2564	100
4240403 gtgcatgttatç -	STM4031	100 STM1285	87 STM4031	100
4324480 atggaactctç -	STM4109	100 STM4589	64 STM4109	100
3013791 gtgataccgg -	STM2868	100 STM2477	54 STM2868	100
4573198 atggctcgcç +	STM4327	100 STM4050	67.925 STM4327	100
2602817 atgcaaaagç -	STM2487	100	STM2487	100
2676017 gtgattcctatç -	STM2535	100 STM3201	63.551 STM2535	100
2716568 atggataaga -	STM2570	100 STM0168	61.386 STM2570	100
4254955 atgagctttatç -	STM4044	100 STM2461	75 STM4044	99.74
4295850 atgactgaaa -	STM4086	100 STM0685	60.784 STM4086	100
4341301 atgatgaatç +	STM4122	100 STM3789	59 STM4122	100
2391864 atgaaaactç +	STM2284	100 STM3319	82.178 STM2284	100
4751839 atgaaaaacç -	STM4498	100 STM4018	64.356 STM4498	100
4784268 atgaacaaat -	STM4526	100 STM2463	70.297 STM4526	100
2020127 atgaaaaatç -	STM1922	100	STM1922	100
1403693 atgacgtatç +	STM1323	100 PSLT042	61.905 STM1323	100
421647 atgtctaccç +	STM0370	100	STM0370	100
4459857 atgaaagcgt +	STM4237	100 STM0797	62.376 STM4237	100
3007285 atgacgaatç +	STM2861	100 STM3328	54 STM2861	100
1520835 atgattaacç -	STM1445	100 STM3645	62.376 STM1445	100
4636257 atggtagatç +	STM4398	100 STM0400	78 STM4398	100
4668919 atgactttaaa +	STM4425	100 STM2514	60.194 STM4425	100
4691370 gtgcgattccc +	STM4448	100	STM4448	100
4641503 atgattaagtt -	STM4403	100 STM1832	63.366 STM4403	100
4671193 atgatgaagc +	STM4427	100 STM2928	76 STM4427	100
4698219 atgagcaaaç -	STM4454	100 STM2810	60.396 STM4454	100
4746939 atgaatacca -	STM4495	100 STM4023	64 STM4495	100
4795832 atgattgttttt +	STM4536	100 STM3493	62.376 STM4536	100
1341731 atgaaattgtt +	STM1256	100 STM4147	63.725 STM1256	100
1571230 atgagattcaç -	STM1493	100 STM2165	61.682 STM1493	100
4004435 atgcacgctç +	STM3801	100 STM4482	68 STM3801	100
4029187 atgtcaacgc +	STM3826	100 STM2271	73 STM3826	100
410169 atggagtttga +	STM0360	100 STM0740	68 STM0360	100
91747 atgtccgaag +	STM0077	100 STM1352	73 STM0077	100
176080 atggcctaca +	STM0151	100 STM1541	64 STM0151	100
4461360 atgccgctttt +	STM4238	100 STM1693	56.731 STM4238	100
2441063 atgataaatç -	STM2330	100 STM1487	62.745 STM2330	100
1421943 atgtctcaattç +	STM1342	100 STM0771	75.248 STM1342	100
938182 atgctgaaaa -	STM0865	100 STM0875	64.762 STM0865	100
1534348 atgaatactat -	STM1458	100 STM3666	65.094 STM1458	100

1579393	gtgatgcccg -	STM1499	100	STM0964	84	STM1499	100
1580669	gtgatacgtgt +	STM1501	100	STM0662	66.019	STM1501	100
3992232	atgacaacac -	STM3791	100	STM3455	71	STM3791	100
2720610	atgtcggcatc -	STM2574	100	STM1576	61.165	STM2574	100
460624	atgcgcggtac +	STM0404	100	STM1548	66.337	STM0404	100
4415432	atggcaaaa +	STM4192	100	STM2482	62.136	STM4192	100
2481274	atgtccggac -	STM2368	100	STM2323	67.925	STM2368	100
391697	atgataaattc +	STM0347	100	PSLT097	63.462	STM0347	100
2661485	atggtaacct -	STM2527	100	STM3666	61.386	STM2527	100
518538	gtgcgattattt +	STM0460	100	STM2020	64	STM0460	100
622619	atggataaat +	STM0566	100	STM1749	62.617	STM0566	100
1408534	atggtgaaa +	STM1329	100	STM4522	59.434	STM1329	100
4645840	atgagtttattt -	STM4408	100	STM3772	51.485	STM4408	100
4720350	atgacaacgc -	STM4476	100	STM3616	62.136	STM4476	100
2788450	atgaacgatg -	STM2648	100	STM0821	61.165	STM2648	100
3362099	atggatgatgl +	STM3199	100	STM2253	61.386	STM3199	100
3408726	atgaaggtaa -	STM3241	100	STM0973	88	STM3241	100
3441268	atggagctgc +	STM3274	100	PSLT033	67	STM3274	100
4309448	atggctgaat -	STM4099	100			STM4099	100
1463998	atgaatgata -	STM1380	100	STM0861	52.427	STM1380	100
527284	atgacagag -	STM0471	100			STM0471	100
2941582	atgcaactta +	STM2791	100	STM4519	71.845	STM2791	100
2753832	gtgcaacgta -	STM2605	100	STM2062	62.376	STM2605	100
2779396	atgcagaaa -	STM2639	100			STM2639	100
3355467	atgtttgacca +	STM3191	100	STM4098	74	STM3191	100
3803466	atgagcgccc -	STM3619	100	STM0285	63	STM3619	100
3438270	atgagtaaga +	STM3269	100	STM2212	90	STM3269	100
1499391	atgtcttacc +	STM1419	100	STM1979	72	STM1419	100
2614110	gtgaccgata +	STM2499	100	STM1177	63.636	STM2499	100
1213488	atggctattag +	STM1125	100	STM0911	63.107	STM1125	100
2955596	atgaaattatc +	STM2808	100	STM3056	66.99	STM2808	100
310826	atgaaacaa -	STM0271	100	STM3570	60.55	STM0271	100
3026736	atggttaca -	STM2882	100	STM2882	54	STM2882	100
3659609	atgaggcga -	STM3501	100	STM2130	65.049	STM3501	100
1787166	atgccttacg +	STM1694	100	STM3628	65	STM1694	100
4258777	atgacttttcg -	STM4047	100	STM3685	74	STM4047	100
612214	atgcgcgagc -	STM0550	100	STM1950	61.165	STM0550	100
1310854	atgccgattac -	STM1224	100	STM1602	62.136	STM1224	100
1249561	atgactgcac -	STM1163	100	STM0971	62.376	STM1163	100
3620956	atgagcgata -	STM3470	100	STM3028	60.377	STM3470	100
4248839	atgaacaata +	STM4038	100	STM3010	66.981	STM4038	100
703924	atgaaacga -	STM0640	100	STM1910	79	STM0640	100
296807	atgaaagcc -	STM0256	100	STM2424	66	STM0256	100
1533777	atgcctaaact -	STM1457	100	STM2053	62.136	STM1457	100
3029086	atgtaattagi -	STM2884	100	STM0521	62	STM2884	100
1257041	atgactcgttt -	STM1171	100	STM0078	49	STM1171	100
4476038	atggataaga -	STM4254	100	STM0891	66.038	STM4254	100
2826966	atgacgaag +	STM2688	100	STM3706	57.143	STM2688	91.48
41624	atgaaaaga +	STM0035	100			STM0035	100
4359644	atgagtataa -	STM4139	100			STM4139	100
3879358	atggcaaaa -	STM3688	100			STM3688	100
4075493	atggctactgc -	STM3865	100			STM3865	100

449381 atgaaaattct-	STM0395	100	PSLT104	71.569	STM0395	99.9
3033645 atggatgattt:-	STM2889	100	STM1420	63	STM2889	100
2138660 atgaatcattt:-	STM2064	100	STM1385	67	STM2064	96.98
2013739 atgagtaaaa-	STM1917	100	STM4005	70.588	STM1917	100
1802999 gtgaaatattt:-	STM1709	100	STM3589	57.547	STM1709	100
1476805 atgaaagaai-	STM1391	100	STM1767	60.577	STM1391	100
3917862 atgagagttg:-	STM3722	100			STM3722	100
391932 atgaaaaagi+	STM0348	100	STM4522	61	STM0348	100
4379863 atgaatgacc-	STM4162	100	STM0845	66	STM4162	100
4195124 atgcattttcg+	STM3986	100	STM0851	60.185	STM3986	100
2656145 gtggcaaaa:-	STM2522	100			STM2522	100
4133658 gtgcaggtaa+	STM3924	100	STM4036	62.136	STM3924	100
4115384 atggcggaat+	STM3905	100	STM3244	66	STM3905	100
1856884 atgattgaact-	STM1762	100	STM1579	77	STM1762	100
1890318 atgagcaacç+	STM1791	100	STM1533	64.706	STM1791	100
1830638 atgaagcagt+	STM1735	100	STM3149	62.136	STM1735	100
169266 atgccgcctc:-	STM0145	100	STM0789	80	STM0145	100
480157 atgctaatttg:-	STM0426	100	STM0479	60.194	STM0426	100
4243846 atgaaacga:-	STM4035	100	STM1568	74	STM4035	100
1483087 atggcatatct+	STM1395	100	STM1181	93	STM1395	100
609682 atgaaaatat:+	STM0547	100	STM0024	64	STM0547	100
4153790 atgaagcaar+	STM3948	100	STM3009	53.846	STM3948	100
4118852 atggctaact:+	STM3909	100	STM2465	59.406	STM3909	100
215292 atgacactac-	STM0184	100	STM2641	57	STM0184	99.78
1930354 atggagattar+	STM1831	100	STM0575	65.049	STM1831	100
1882909 atgggattca:+	STM1784	100	STM0239	66	STM1784	100
3040457 gtgctgctttct-	STM2896	100	STM1913	76	STM2896	100
528751 atggacgaat-	STM0474	100	STM3113	61.261	STM0474	100
1614904 atgcaaacar-	STM1539	100	STM1786	87	STM1539	100
1595601 atgaatccag-	STM1516	100	STM0086	62.857	STM1516	100
1049258 atgggaagtç+	STM0966	100	STM1496	89	STM0966	100
675983 atgagtaatg:+	STM0611	100	STM0964	78	STM0611	100
1624148 atgacaagat-	STM1546	100	STM0366	60.952	STM1546	100
1650428 atgtctatgga-	STM1569	100	STM4036	84	STM1569	100
1693131 atgccaattac+	STM1602	100	STM1224	62.264	STM1602	98.75
1717504 atgggcaacç:-	STM1626	100	STM3152	84	STM1626	100
1741539 atgaagaaa:+	STM1648	100	STM3861	88	STM1648	100
1789691 atgctgcttttt-	STM1697	100	STM3459	55	STM1697	100
569536 atgatagctcç+	STM0508	100			STM0508	100
572995 atgattgaaai+	STM0511	100	STM0247	71	STM0511	100
598962 atggttactttc-	STM0536	100	STM3472	71	STM0536	100
657430 atggatatgtc+	STM0595	100	STM2310	64	STM0595	100
2857993 atgaatgcac-	STM2710	100	STM4040	53.846	STM2710	100
1868146 atgtcattcctc-	STM1768	100	STM2517	66.038	STM1768	100
1908372 atggagatctr+	STM1806	100	STM1294	63.366	STM1806	100
2872697 gtggcagtgga-	STM2729	100	STM0580	60.577	STM2729	100
3172685 atgatggcga+	STM3012	100	STM3011	80	STM3012	91.91
3874084 atgacaagcç-	STM3683	100	STM0285	59.813	STM3683	100
3949331 atgagttataa-	STM3752	100	STM3752	50	STM3752	100
3331109 atgagcgcta-	STM3168	100	STM1383	66	STM3168	100
3164076 atgtccgctct+	STM3005	100	STM1185	59.813	STM3005	100
3248783 atgagcaaat-	STM3085	100			STM3085	100

3300319	atggctacgtt +	STM3137	100	STM0758	62.376	STM3137	100
2958210	atggctgatca +	STM2810	100	STM0543	67.327	STM2810	100
2948774	atgttctctcca +	STM2800	100	STM3513	60	STM2800	100
3553717	atgcagcttgca +	STM3382	100	PSLT034	60.577	STM3382	100
1125929	ctgaataatgca +	STM1040	100	STM2595	80.198	STM1040	100
3216682	atggcccaac -	STM3055	100	STM2551	63.366	STM3055	100
3251637	atgacagaa(-	STM3089	100	STM2213	86	STM3089	100
3284773	atgtcagcctt +	STM3124	100	STM2246	64.423	STM3124	100
526127	gtgacaacac -	STM0468	100	STM4264	68	STM0468	100
3784374	atgcaagca(-	STM3609	100	STM4290	88	STM3609	100
4673217	ctgggtgatat -	STM4429	100	STM0796	84	STM4429	100
4628953	atgctgtcgca +	STM4387	100	STM3676	75.248	STM4387	100
4716871	atgaataacg +	STM4474	100	STM4118	49	STM4474	100
4847753	atggtgaaatc +	STM4590	100			STM4590	100
2987640	atgagtcggg +	STM2841	100	STM3474	71.287	STM2841	100
2277790	atggcgaact +	STM2180	100	STM1713	69	STM2180	100
2163866	atgaacgtag -	STM2083	100	STM2088	61	STM2083	100
2949159	atgtatttacg(-	STM2801	100	STM2162	61.538	STM2801	100
2291112	atgccatcac -	STM2193	100	STM3773	49	STM2193	100
2186966	atgacaaatc -	STM2103	100	PSLT016	60.577	STM2103	100
2273623	atgaagctgt(-	STM2176	100	STM3342	62	STM2176	100
1898627	gtgaaattaa(-	STM1799	100	STM3112	62	STM1799	100
3862459	atgagcaact +	STM3674	100	STM3674	64.706	STM3674	100
2340556	gtgagagcgt(-	STM2240	100	STM4154	68	STM2240	100
1938462	atggcaaac(-	STM1842	100	STM2292	71	STM1842	100
3881184	atgcacaaa(-	STM3690	100	STM4571	49.038	STM3690	100
3596530	atgcagaac(-	STM3441	100	STM1991	61.321	STM3441	100
4604492	atgaatgatg(+	STM4360	100	STM2841	60.577	STM4360	100
3406362	atgattagcgr(-	STM3240	100	STM1826	87	STM3240	100
3471391	atgaagtttgt(-	STM3301	100	STM3655	64.423	STM3301	100
3384275	atgtcttctcat -	STM3217	100	STM1919	84	STM3217	100
3304203	atgagcaaa(-	STM3139	100	STM3188	59	STM3139	100
3228224	gtgatatcttat -	STM3066	100	STM4115	60.952	STM3066	100
1261795	atggatcacg +	STM1178	100	STM1176	65.385	STM1178	100
3372563	atgagtgcaa +	STM3207	100	STM2981	64.078	STM3207	100
1473127	gtgagaggta +	STM1386	100	STM2397	73	STM1386	100
3951199	atgagaatcg +	STM3753	100	STM3754	100	STM3753	77.44
3357680	atggattttatt +	STM3194	100	STM4297	70.192	STM3194	100
3263121	atgcaaaaa(-	STM3103	100	STM4305	63.462	STM3103	100
3210740	atgagaaaa(-	STM3051	100	PSLT095	61.386	STM3051	100
823452	atgaaaatga -	STM0759	100	STM3640	62	STM0759	100
3298895	atggaacag(+	STM3136	100	STM1508	80	STM3136	100
3234326	atggcgcgtc +	STM3072	100	STM4075	81.553	STM3072	100
1193162	atgctcgata(-	STM1105	100	STM2838	64.078	STM1105	100
842728	atggcttttctg -	STM0777	100	STM2638	61.386	STM0777	100
884682	atgaaaaaa(-	STM0818	100	STM4024	62.5	STM0818	100
936699	atgacgcaat +	STM0863	100	STM0637	80	STM0863	100
524346	atgctgtttct -	STM0466	100	STM2560	64.486	STM0466	100
442891	atgctacaaa +	STM0391	100	STM0006	62.264	STM0391	100
3287494	atgcaagcttt -	STM3127	100	STM1057	56.436	STM3127	100
618919	atgctgcgca -	STM0561	100	STM0398	61	STM0561	100
619207	gtgcggcca(-	STM0562	100	STM3173	59.259	STM0562	100

2681094	atgtcgattac -	STM2541	100	STM1369	70	STM2541	100
2068283	atgaaggtga -	STM1983	100	STM4275	91	STM1983	100
2331782	ttgctggaca: +	STM2231	100	STM1056	72	STM2231	100
2281188	atgatcatgg: +	STM2185	100	STM2564	92	STM2185	100
891273	atggcatccg -	STM0825	100	STM4107	61.682	STM0825	100
4691964	atgacttatga +	STM4450	100	STM1550	66	STM4450	100
4777379	atgactaccg -	STM4523	100	STM2814	58.654	STM4523	100
3065449	atgattgccc +	STM2923	100			STM2923	100
1452683	atggaattgc: +	STM1369	100	STM2541	70	STM1369	100
1207538	atgaaacga: -	STM1123	100	STM0353	62	STM1123	100
1459615	atgaatcgta: -	STM1377	100	STM1376	90	STM1377	100
3838496	atgcataca: -	STM3652	100	STM2525	56.863	STM3652	100
3897316	atgcaagaa: -	STM3703	100	STM0351	57	STM3703	100
44185	gtgaatatgtt +	STM0037	100	STM1796	63.725	STM0037	100
84117	atggatatcgt -	STM0071	100	STM1350	61.165	STM0071	100
46027	atgaatacgtt +	STM0038	100	STM0032	80	STM0038	100
101318	atgatcagtct +	STM0087	100	STM0096	63.551	STM0087	100
104470	atgagcagtg -	STM0091	100	STM0163	66	STM0091	100
93837	atgcaaaaa: +	STM0080	100	STM2983	71	STM0080	100
2770498	atgcttaa: +	STM2630	100	STM2525	55	STM2630	100
1722984	atgatcttaa: -	STM1632	100	STM1993	64	STM1632	100
1781687	atgagcgcg: -	STM1689	100			STM1689	100
1767221	gtgccaggg: -	STM1673	100	STM1585	69	STM1673	100
1719098	atgccgcatt: -	STM1628	100	STM3023	66.337	STM1628	100
3359240	atggcgtcca +	STM3196	100	STM2851	64.078	STM3196	100
P36777	atgagcagc: -	PSLT044	100	PSLT043	68	PSLT044	100
P20621	atgcagttta: +	PSLT028	100	STM1349	71.845	PSLT028	100
P72231	gtgaaatggc +	PSLT091	100	STM2104	75.248	PSLT091	100
P26917	atgagagttc: -	PSLT037	100	STM3713	56.436	PSLT037	100
P53123	atgtacggaa +	PSLT063	100	STM2458	87	PSLT063	100
P79850	atgcagggtg +	PSLT100	100	STM0769	66.337	PSLT100	100
R27780	-	STM3135	52.475	STM3848	47.115	STM3135	12.4
R28633	+	STM1998	64	PSLT055	61	STM1998	46.98
R9475	+	STM4153	63.462	STM0408	60	STM4153	6.7
R24551	-	STM2451	41.346	STM3251	39	STM2451	8.37
R4184	+	STM0487	48.039	STM0252	37	STM0487	17.24
P06538	atgatgtgga: -	PSLT010	100	STM1154	59.813	PSLT010	100
		STM0893	100	STM1005	75	STM0893	100
		STM2771	100	STM1959	98	STM2771	100
		STM0914	100	STM2600	74	STM0914	100
		STM0916	100	STM2597	78	STM0916	100
994333	atgaaaaag: +	STM0922	100	STM1046	78	STM0922	100
3272711	atgaatcctaa +	STM3113	100	STM2421	73	STM3113	100
		STM1922	63.208	STM0220	50	STM1922	23.09
		STM3052	58			STM3052	34.48
		STM2677	58.095			STM2677	6.97
		STM1338	52.427	STM0002	52.381	STM0002	10.94
		STM0437	98.02	STM4010	78	STM0437	92.16
		STM1012	60.377	STM2628	60.377	STM1012	31.17

STM3629	59.804	STM0994	53	STM3629	25.91
PSLT047	39	STM1913	35	PSLT047	27.07
STM4213	87	STM2701	61.765	STM4213	69.56
STM1450	100	STM2435	59.406	STM1450	95.93
STM2293	62.5	STM0928	49.057	STM2293	12.34
STM2754	62.264	STM3845	60.396	STM4157	15.03
STM1009	79	STM1870	79	STM1009	24.88
STM1358	83	STM1368	65.347	STM1358	72.9
STM2701	58.095			STM2701	23.86
STM2738	69	STM2175	48.515	STM2738	22.11
STM2721	94			STM2721	83.6
STM2503	59.223	STM2584	56.863	STM2503	8.15
STM4448	58.416			STM4448	4.24
STM3690	64.423	STM4315	59.406	STM3690	6.68
STM0691	63.107	STM4114	62.745	STM0691	2.71
STM3655	100	STM1764	65	STM3655	90
STM0979	66.99	STM1057	58.824	STM0979	13.14

1314646 atggataaac +	STM1227	100	STM0233	51.456	STM1227	100
148716 atggctgatta +	STM0126	100	STM4456	73	STM0126	100
189357 atgggaacct -	STM0159	100	STM2036	60	STM0159	100
213277 atgaaaccce -	STM0182	100	STM0067	67	STM0182	100
275946 atgggattgc +	STM0233	100	STM2502	55	STM0233	100
1592256 atggcagaa +	STM1513	100	STM1728	84	STM1513	100
229717 gtgagcaga +	STM0194	100	STM4281	63	STM0194	100
725526 atgtttggcgt -	STM0660	100			STM0660	100
759006 atgaaattaa -	STM0696	100	STM2424	70	STM0696	100
4030550 atggtgagcg -	STM3827	100	STM3698	72	STM3827	100
4053275 ttgacggcac +	STM3846	100	STM2066	62.745	STM3846	100
4089246 atggctcacc -	STM3879	100	STM1818	63.107	STM3879	100
4046422 atggcgccgc +	STM3841	100	STM2309	73	STM3841	100
4068884 atgacaacc +	STM3860	100	STM0109	76	STM3860	100
15961 atgggatcga +	STM0014	100	STM0030	63	STM0014	100
2513521 atgtaacaat +	STM2399	100	STM3787	65.347	STM2399	100
840570 atgaccccat -	STM0775	100	STM0096	64.423	STM0775	100
161941 atgaaaaaa +	STM0137	100	STM1301	74.257	STM0137	100
	STM2778	100	STM2779	100	STM2778	100
1174927 atggatcgat -	STM1085	100	STM0125	56.481	STM1085	100
3574661 gtgaataata -	STM3402	100	STM4188	81	STM3402	100
3609567 atgtctcagcc -	STM3458	100	STM0085	59	STM3458	100
3653052 atgcatattga +	STM3496	100			STM3496	100
1337365 atgaaattagi +	STM1252	100			STM1252	100
3603486 atgaaacgta -	STM3450	100	STM1457	54	STM3450	100

3642748 atggcagag:-	STM3487	100	STM2404	61.538	STM3487	100
1321508 gtgattgtggc-	STM1233	100	STM0643	82	STM1233	100
1354071 atgaaatttac+	STM1275	100	STM1212	61.765	STM1275	100
2188390 atgacaaaat-	STM2104	100	STM2253	66	STM2104	100
2226730 gtggaatttctt+	STM2133	100	STM3769	78.641	STM2133	98.33
3706098 atgacgcagc-	STM3537	100	STM1558	74	STM3537	100
3741595 atgagtaagc-	STM3574	100	STM1646	58.491	STM3574	100
2229568 atggaacagc+	STM2135	100			STM2135	100
2868678 atgaaatcaa-	STM2724	100	STM0293	71.287	STM2724	100
340702 atggctcgatt-	STM0296	100	STM0517	58.252	STM0296	100
372641 ttgtgatgaa:+	STM0328	100	STM1486	65.385	STM0328	100
2212357 atgtttaccctc-	STM2124	100	STM3335	64	STM2124	100
	STM2713	100	STM2714	100	STM2714	100
2888729 atgcctgaag-	STM2748	100			STM2748	100
374822 atggatacgtt+	STM0330	100	STM1981	53	STM0330	100
1156825 atggaaccta+	STM1064	100	STM4062	70	STM1064	100
1552020 atgaaccgc:-	STM1475	100	STM3502	67.308	STM1475	100
955869 atggaggggc+	STM0884	100	STM4383	67.961	STM0884	100
976222 atgtggatga:+	STM0905	100			STM0905	100
	STM0922	100	STM0923	100	STM0922	100
2662294 atgcatgagtt-	STM2528	100	STM4307	61.386	STM2528	100
2705411 atgataagcc-	STM2562	100	STM0652	77	STM2562	100
1118995 atgatgacaa+	STM1031	100	STM0910	86	STM1031	100
1053512 atgtatttaga-	STM0970	100	STM4565	63.107	STM0970	100
1086861 atgttgcttaat+	STM0995	100	STM4357	66.019	STM0995	100
4272145 atgaatcaaa+	STM4061	100	STM1499	80.392	STM4061	100
4443933 atgatgaaa+	STM4224	100	STM2842	61.165	STM4224	100
3053282 atgaatccat:-	STM2910	100	STM1753	61.111	STM2910	100
4583989 atggctgaga-	STM4342	100	STM0735	72.277	STM4342	100
1002017 atgccttttaa:+	STM0927	100	STM1050	95	STM0927	100
1058295 gtgaaagctg-	STM0974	100	STM1584	62.857	STM0974	100
1099520 atggctaagc-	STM1005	100	STM0893	81	STM1005	100
4412022 atgtctcatgtt+	STM4188	100	STM3384	64	STM4188	100
4314281 atggaagggtt-	STM4102	100	STM3067	78	STM4102	100
4473081 atggaaaac:-	STM4253	100	STM1928	61.386	STM4253	100
4710545 atggaaaagr-	STM4467	100	STM0143	60.952	STM4467	100
2446574 atgcctgagg-	STM2334	100	STM3836	64.22	STM2334	100
2474300 atggcatcca+	STM2361	100	STM2562	68.627	STM2361	100
1292596 gtgcggtcca+	STM1208	100			STM1208	100
3280538 atggaactgc+	STM3121	100	STM1487	64	STM3121	100
1250998 gtgaagcttta-	STM1165	100	STM2341	61.321	STM1165	100
4378155 atgaaaacct-	STM4159	100	STM1692	56.311	STM4159	100
1401466 atgaattttcc:-	STM1320	100	STM1368	72	STM1320	100
4599914 atgatggacc+	STM4356	100	STM2252	64.151	STM4356	100
2084931 atggcattaar+	STM2005	100	STM3655	85	STM2005	100
2359645 atggttgattta-	STM2261	100	STM3014	63.366	STM2261	100
2399431 atggagaata-	STM2291	100	STM3828	66	STM2291	100
2088615 atgcccctcc+	STM2007	100	STM1760	64.151	STM2007	100
2362405 atggaacttct-	STM2263	100	STM1696	64.356	STM2263	100
2402423 atgttttggaa-	STM2294	100	STM3158	63.462	STM2294	100
2443209 atgtcccccac+	STM2331	100	STM0370	58.416	STM2331	100
2482287 atgtctgaagc-	STM2369	100			STM2369	100

1393568	atgagtaacg +	STM1313	100	STM2528	59.406	STM1313	100
1495701	atgcgttcatg +	STM1414	100	STM2896	75	STM1414	100
4085157	atggaaaatt:-	STM3876	100			STM3876	100
346568	atgtggatga: +	STM0302	100	STM0046	61.321	STM0302	100
269524	atgatcgaatt +	STM0230	100			STM0230	100
4456082	atggagtgga +	STM4234	100	STM2253	61.765	STM4234	100
2500252	atgactacca -	STM2388	100	STM3983	66.337	STM2388	100
154363	atgtcgcagg +	STM0131	100	STM3773	66	STM0131	100
1384445	atgcggtgga +	STM1304	100	STM1106	62.5	STM1304	100
1434487	atgaatcatt:-	STM1353	100	STM0076	78	STM1353	100
1457834	atggctgcgc +	STM1374	100	STM2985	58	STM1374	100
1658297	atgttcgtca:-	STM1574	100	STM2221	67	STM1574	100
1497727	atgcgtattac +	STM1417	100	STM2160	61.165	STM1417	100
456022	atggaaagc: +	STM0400	100	STM4398	78	STM0400	100
2354285	atggaaaatt:-	STM2255	100	STM3823	68	STM2255	100
2718436	atgaactgtt:-	STM2572	100	STM3248	63.366	STM2572	100
2149255	atgaaaaag:-	STM2070	100	STM3827	55.446	STM2070	100
123371	atgcaagca: +	STM0105	100	STM2367	63.462	STM0105	100
168151	atggaaaaa:-	STM0144	100	STM3000	61.386	STM0144	100
2376347	atgagcgacc:-	STM2272	100	STM3174	76	STM2272	100
2556441	atggccgtaa:-	STM2444	100	STM4063	72	STM2444	100
896120	atgcagttga -	STM0829	100	STM0663	60	STM0829	100
2097225	atgcgctgat -	STM2015	100	STM0837	79	STM2015	100
653572	atgcatgctc -	STM0592	100	STM0770	66	STM0592	100
2750054	atgaaaggg:-	STM2600	100	STM0914	90	STM2600	100
2758721	atgaaattca: +	STM2610	100	PSLT047	91	STM2610	100
3946894	atgaaaatta:-	STM3749	100	STM3059	61.682	STM3749	100
3816029	atgagtatttc:-	STM3630	100	STM3796A	65.686	STM3630	100
3727677	atgatatcgtt:-	STM3557	100	STM4466	60.396	STM3557	100
1030256	atgataaaa +	STM0952	100	STM2912	66.019	STM0952	100
2652929	atggctacctg -	STM2519	100	STM1804	61.321	STM2519	100
534407	atggcacga: +	STM0477	100	STM3389	75	STM0477	100
575776	atgttgacct -	STM0514	100	STM2424	62	STM0514	100
4637031	atggcttatcg -	STM4399	100	STM2160	64.151	STM4399	100
4762839	atgaacacct -	STM4508	100	STM2489	62.5	STM4508	100
4838826	gtggctcaatt -	STM4581	100	STM0838	69	STM4581	100
3844738	atggacgatc -	STM3659	100	STM3928	61	STM3659	100
3400908	atggctaaag -	STM3235	100	STM2069	69	STM3235	100
3638672	atgaaacagt -	STM3483	100	STM1617	66.99	STM3483	100
4041269	atgtcgaattc -	STM3835	100	STM3181	80	STM3835	100
2156146	atgctggcaa +	STM2077	100	STM0450	64.078	STM2077	100
468400	atgaaaaaa:-	STM0413	100	STM4261	59.406	STM0413	100
1801324	atgacgtttac -	STM1707	100			STM1707	100
3579749	atgaaaaaa +	STM3408	100	STM1850	63.725	STM3408	100
3642170	atggagaggi:-	STM3486	100	STM1075	63	STM3486	100
2050805	atggcttcaat +	STM1960	100	STM0483	72	STM1960	100
2725507	atgaacccc:-	STM2581	100	STM3302	61.165	STM2581	100
2574800	atgaatcaac -	STM2463	100	STM2051	74	STM2463	100
4202199	atgataccgc -	STM3993	100	STM2470	63.366	STM3993	97.18
3036699	atgcattcgct -	STM2893	100	STM4065	49.02	STM2893	100
1329705	atgttcgtcga -	STM1241	100	STM1056	74	STM1241	100
3030895	atggtaaatg:-	STM2885	100	STM1571	62	STM2885	100

944394	gtgaatataa:-	STM0870	100	STM3186	62.037	STM0870	100
918090	atgaataaag+	STM0847	100	STM0371	68.317	STM0847	100
3623252	atgactaaca+	STM3473	100	STM0125	71.845	STM3473	100
2124437	atggataaag+	STM2047	100	STM2144	65.347	STM2047	100
4530047	atgccgttaaç-	STM4288	100	STM0182	62	STM4288	100
1994526	atggcaggtc-	STM1899	100	STM3768	61.321	STM1899	100
3532905	gtgaaaaca:-	STM3365	100	STM4347	64.762	STM3365	100
52543	ttggctaata:-	STM0043	100	STM2509	59.223	STM0043	100
309116	atgagcacgt-	STM0269	100	STM2249	58.824	STM0269	100
1736488	atgacgtctgç-	STM1643	100			STM1643	100
4231602	atgaggatgg-	STM4020	100	STM0492	60.952	STM4020	100
869241	atgtttaatatt:+	STM0800	100	STM2241	69	STM0800	100
2126224	atggcgattta+	STM2050	100	STM3742	63.462	STM2050	100
4543753	atgatgacgg+	STM4298	100	STM1255	58	STM4298	100
2000789	atgatcgagtt+	STM1906	100	STM3042	70	STM1906	100
2137197	atgctgttgaa-	STM2062	100	STM0863	63.725	STM2062	100
4481183	atgaagatta:+	STM4259	100	STM3003	89	STM4259	100
2825868	gtgccggata-	STM2686	100	STM2988	62.136	STM2686	100
53810	atgaagctga+	STM0045	100	STM3506	66.355	STM0045	100
4692432	atgcgctacc-	STM4451	100	STM0813	62.963	STM4451	100
1605698	atgggtataa:-	STM1528	100	STM1529	100	STM1528	100
4128176	gtgaagtact+	STM3918	100	STM4556	76	STM3918	99.9
4166876	atgtttcagca+	STM3961	100	STM3323	63.366	STM3961	100
3133865	atgaataaag-	STM2980	100	STM0838	61.765	STM2980	99.73
4363533	atggctaaga+	STM4149	100			STM4149	100
1263344	atgcaaaaat+	STM1180	100	STM3485	64.151	STM1180	100
3627456	atgtttacaga+	STM3476	100	STM0974	59.048	STM3476	100
3528498	atgcgaagct+	STM3360	100	STM4463	65.347	STM3360	100
3101410	atgacaacta-	STM2954	100	STM1258	60	STM2954	100
4301021	gtgacaaca:-	STM4092	100	STM1509	71	STM4092	100
4191499	atgctttataa:-	STM3983	100	STM0070	67.647	STM3983	100
4173713	ttgtctcatggç+	STM3966	100	STM0036	72	STM3966	100
4155405	atgcgtttttac+	STM3950	100	STM0790	64.706	STM3950	100
4148913	ttgtacctctat+	STM3939	100	STM2834	70.297	STM3939	100
1349039	atggctactttt+	STM1266	100	STM1390	93	STM1266	99.65
4374236	gtgaaagattt+	STM4154	100	STM4337	61.165	STM4154	100
1792924	atgggttttcttt+	STM1700	100	STM2758	89	STM1700	100
2014602	atgacatcatç-	STM1918	100	STM2689	63	STM1918	100
3116326	atgctggaga-	STM2964	100	STM0703	64	STM2964	100
957716	atgaaagcgç:+	STM0886	100			STM0886	100
579248	atggcaaaaç+	STM0517	100	STM0116	65.347	STM0517	100
1088344	atgaactatcç+	STM0997	100			STM0997	100
1666664	atgcaaatcc+	STM1579	100	STM1762	77	STM1579	100
379739	atgcgcaattç-	STM0336	100	STM0339	58.252	STM0336	100
1830042	atgtctatcac+	STM1734	100			STM1734	100
1881701	atggatctact+	STM1783	100	STM1172	59.223	STM1783	100
1916907	ttgaagaagç-	STM1818	100	STM3983	70.588	STM1818	100
1945895	atggctctgçç+	STM1848	100	STM1063	64.423	STM1848	100
1971048	atgtcctctgç+	STM1877	100			STM1877	100
537888	atgactatgttç+	STM0478	100	STM4347	72	STM0478	100
676537	atgagacgtgç+	STM0612	100	STM1385	78	STM0612	100
689688	atgtcctgtca+	STM0625	100	STM0053	67	STM0625	100

1072183 atgcataacg +	STM0984	100 STM0891	72 STM0984	100
666669 atgcaacacc -	STM0604	100 STM4110	59 STM0604	100
1698958 atgaccgttc -	STM1608	100 STM2882	65 STM1608	100
1656261 atgaaactta +	STM1572	100 STM2267	82 STM1572	100
1696215 atggataacc -	STM1605	100 STM1664	60.396 STM1605	100
3793687 atggcaatgg -	STM3615	100 STM1703	63 STM3615	100
3290972 atgatgacac -	STM3130	100 STM0826	65 STM3130	100
3894035 atgaacaca +	STM3698	100 STM2962	74 STM3698	100
2995603 atgtctgaag -	STM2849	100	STM2849	100
3128188 atgggaaac +	STM2975	100 STM3792	67 STM2975	100
2842704 atgaccgc +	STM2691	100 STM2441	64.356 STM2691	100
469239 atgacaaga -	STM0414	100	STM0414	100
507896 atgaatcctg +	STM0450	100 STM0747	68.317 STM0450	100
3751744 atgcaacgtg +	STM3584	100	STM3584	91.78
3822267 atgagataca -	STM3635	100 STM4447	70.588 STM3635	96.74
3865636 atgctcgaatt -	STM3678	100 STM4117	61 STM3678	100
3900401 atgagggga +	STM3705	100 STM3936	65.385 STM3705	100
299019 atgcgctatgt +	STM0258	100 PSLT092	61.386 STM0258	100
461948 atgaaatttg +	STM0405	100 STM3686	54.455 STM0405	100
3307819 atgcatgagc -	STM3144	100 STM2854	67 STM3144	100
2964505 atgcaacag +	STM2815	100 STM1574	64.356 STM2815	100
3810229 atgcaggac +	STM3625	100 STM3239	71.845 STM3625	100
3870561 atgcagcaat +	STM3681	100 PSLT059	67.961 STM3681	100
3468406 atgcaagcta -	STM3299	100 STM3503	63.462 STM3299	100
3379926 atgacgacat -	STM3214	100 STM0141	79.412 STM3214	100
3295723 atgaagatga -	STM3134	100 STM2318	62.745 STM3134	100
2974001 atgagcaag -	STM2827	100 STM0602	61.165 STM2827	100
2287616 atgaataaga -	STM2190	100 STM2191	75 STM2190	100
2327446 gtgagtaaag -	STM2225	100	STM2225	100
2984885 atgagttttcc -	STM2839	100 STM1691	74.257 STM2839	100
2319128 atgggcgcc +	STM2217	100 STM1745	62.745 STM2217	100
2339155 atgttagaaa +	STM2238	100 STM3118	60.396 STM2238	100
2257978 gtgaaacga -	STM2162	100 STM2810	61.765 STM2162	99.86
1010068 atgattgattta -	STM0934	100 STM4042	54.455 STM0934	100
3591410 atgatccaag -	STM3430	100 STM2970	55 STM3430	100
2243839 atgaaactct -	STM2149	100	STM2149	100
2275386 atgtctgaaat -	STM2178	100	STM2178	100
3587358 atggctaaac -	STM3420	100 STM1960	64.356 STM3420	100
3759992 atgctacatt +	STM3589	100 STM2333	64.078 STM3589	100
3509938 atggacgtta -	STM3340	100 STM0151	76.471 STM3340	100
4785380 atggctgtcc +	STM4527	100 STM1890	87 STM4527	100
4651562 atgagtttatg +	STM4410	100 PSLT046	73.267 STM4410	100
4812706 atgacatccc +	STM4557	100 STM0192	60.714 STM4557	100
4582367 atgcgcttgct -	STM4339	100 STM1478	94 STM4339	100
4703419 atgagcaaa -	STM4458	100 STM1009	61 STM4458	100
3423459 atgttcattatt +	STM3253	100 STM1378	64.423 STM3253	100
732608 atgagcgac -	STM0667	100 STM2119	60 STM0667	100
3486762 atgataata +	STM3322	100 STM2745	59.804 STM3322	100
3399973 atggattggta +	STM3234	100 STM0768	57.843 STM3234	100
216853 atgcaagaa -	STM0186	100 STM0111	92.079 STM0186	100
1487959 atgatgatga +	STM1403	100 STM1170	58 STM1403	100
3205321 atggaacag -	STM3044	100 STM3949	63 STM3044	100

834037	atgaatgaaa+	STM0769	100	STM3350	72	STM0769	100
1484524	atgtcttcagg+	STM1398	100	STM1637	60	STM1398	100
1178214	atggaaaagtc-	STM1090	100	STM1879	51	STM1090	100
793671	ttggttagccg+	STM0726	100	STM3124	64.078	STM0726	100
854002	atgacgcaat+	STM0788	100	STM1216	74	STM0788	100
899180	atgccggggt-	STM0832	100	STM2913	61.765	STM0832	100
3208673	atgggtcaaaa-	STM3049	100	STM1904	62.136	STM3049	100
3102796	atgttttgacg-	STM2955	100	STM4174	57.143	STM2955	100
462303	atgagctttttt+	STM0406	100	STM3225	61.165	STM0406	100
528349	atgtctgataa-	STM0473	100	STM2281	62.617	STM0473	100
3320743	gtgggtaatai-	STM3159	100	STM0745	71	STM3159	100
3135763	atgaaaaagi-	STM2983	100	STM0080	70.874	STM2983	100
2079437	atgacgacg-	STM1996	100	STM3649	75	STM1996	100
4527497	atgaaaaaa-	STM4285	100	STM2974	65.714	STM4285	100
4472300	atgaccatttc+	STM4251	100	STM0579	57	STM4251	100
4577354	ttgattatggg+	STM4331	100	STM0995	58.491	STM4331	100
1206371	atggcaaac+	STM1121	100	STM1513	83	STM1121	100
3915916	atgagtgage-	STM3720	100	STM1094	61.538	STM3720	100
2408075	atgaaagcc+	STM2299	100	STM1184	64	STM2299	100
2352337	atgtggaaa-	STM2252	100	STM3817	100	STM2252	99.6
2874002	atgcgaaata-	STM2732	100	STM3591	60.194	STM2732	100
1705907	atgattaatga+	STM1616	100	STM2344	65.686	STM1616	100
1603929	atgaatgcfg+	STM1526	100	STM3644	68.932	STM1526	100
1746565	atgaacaga+	STM1652	100	STM0614	69.608	STM1652	100
1970284	atgaaaaca+	STM1876	100	PSLT064	64	STM1876	100
167704	atgaaagac-	STM0143	100	STM3099	69	STM0143	100
3993560	atgaacgata-	STM3792	100	STM2975	67	STM3792	100
4087729	atgctggccg-	STM3878	100	STM1651	61.111	STM3878	98.14
471506	atgaacattat+	STM0417	100	STM1207	69	STM0417	95.73
3251043	atgaaaaag-	STM3087	100			STM3087	100
4476119	atgggtgcgg+	STM4255	100	STM3145	59.406	STM4255	100
1737153	atgaaaatga-	STM1645	100	STM1155	61.111	STM1645	100
1781081	atgaataact-	STM1687	100			STM1687	100
3959221	gtgatattct-	STM3760	100	STM1061	49.02	STM3760	100
1937062	gtgaaaaaal-	STM1840	100	STM4383	59	STM1840	100
2763714	atgaaacca-	STM2618	100	STM1548	73.267	STM2618	100
812380	atgtgtatttc+	STM0742	100	STM1326	58.416	STM0742	100
P57756	atgatgcgta+	PSLT069	100	STM2249	59.406	PSLT069	100
P41307	atgagccacc-	PSLT049	100	PSLT050	100	PSLT050	100
P78478	atgtctctcaa+	PSLT099	100	STM3632	49.505	PSLT099	100
P02789	gtgcaggca+	PSLT006	100	STM2379	62.5	PSLT006	100
P59818	atgagactcg+	PSLT071	100			PSLT071	100
P89881	atggcctgct-	PSLT108	100	PSLT109	100	PSLT108	100
R38570	+	STM1653	66	STM2513	62.037	STM1653	49.82
R39403	+	STM3506	59.091	STM4029	54	STM3506	14
R23211	-	STM0933	64.151	STM2958	63.81	STM0933	41.94
R30828	+	STM3229	59.223	STM4399	44	STM3229	12.21
R10392	+						
		STM1826	100	STM2971	79.208	STM1826	100
977773	atgaatgagti+	STM0907	100	STM0291	61.165	STM0907	100
983411	atgaattttctg+	STM0911	100	STM1032	81	STM0911	100
2926627	ttgtttgaaa-	STM2779	100	STM1270	55	STM2779	100

STM2961	100	STM2960	78	STM2961	100
STM3076	100	STM2474	85	STM3076	100
STM0964	100	STM1499	81	STM0964	100
STM0364	61.682	STM2338	47.525	STM0364	29.58
STM4362	54.455			STM4362	17.57
STM4211	70	STM3459	63	STM4211	9.01
STM3999	52.427	STM3159	50.485	STM3999	40.89
STM0073	55			STM0073	12.82
STM0196	78	STM3024	66.019	STM0196	26.87

STM4209	75			STM4209	64.78
STM2996	61.386	STM0141	60.194	STM0313	27.82
STM0384	60.577	STM0834	48.544	STM0384	23.25
STM0198	73	STM0199	59	STM0198	54.05
STM0083	47	STM2257	40	STM0083	25.25

STM2977	64.706	STM3478	56.311	STM2977	10.18
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STM4508	64.423	STM2775	56.731	STM4508	11.91
STM4422	59.406	STM3845	59	STM3845	20.9
STM2739	73	STM3287	62.5	STM2739	53.49
PSLT108	62.376			PSLT108	13.59

STM2898	64.762			STM2898	8.14
STM0385	59.615	STM4023	58.252	STM4023	52.49
STM2088	86	STM4422	61.386	STM2088	64.4
STM3356	60.377	STM1614	60.194	STM1614	13.46
PSLT066	83	STM4256	80	STM4256	47.25

STM2128	63.366	STM2523	63	STM2128	8.13
STM1557	64.078	STM0785	60.396	STM0785	6.42

85397 atgaatcattt:-	STM0072	100		STM0072	99.75	
3481948 atgtcgcattt:+	STM3315	100	STM2838	75.49	STM3315	100
3522864 atgactaaaa-	STM3354	100	STM0498	70.874	STM3354	100
3560025 atgccggttaç+	STM3388	100	STM1703	76	STM3388	100
722511 atgaatatctg+	STM0658	100	STM0656	78	STM0658	100
756279 atggagcttcç-	STM0692	100	STM3028	63.208	STM0692	100
259042 atgaagcaat+	STM0220	100		STM0220	100	
1583462 atgaagattgl+	STM1505	100	STM3833	64.762	STM1505	100
1611296 atggcagaaç-	STM1536	100	STM1789	65.686	STM1536	100
4699304 atgcaaaaçç-	STM4455	100	STM3886	66.667	STM4455	100
2111455 atgcattatatç-	STM2033	100	STM2463	62.617	STM2033	100
8618 atgacggacç+	STM0007	100	STM2473	84	STM0007	100
1821707 atggctgatat+	STM1724	100	STM0848	76	STM1724	100

2103707 atgaaacttg:-	STM2023	100	STM2851	63.107	STM2023	100
1824272 atgacaaca+ +	STM1726	100			STM1726	100
75435 atgcggttaat+ +	STM0065	100	STM0142	52.941	STM0065	100
112908 atgccttttac:-	STM0096	100	STM2479	73	STM0096	100
3503091 gtgtcgcagg+ +	STM3333	100	STM4564	60.577	STM3333	100
1139495 atgacttttaa:-	STM1050	100	STM0927	95	STM1050	100
1184383 atgacaattat-	STM1096	100	STM4292	67	STM1096	100
1218954 atgtcactatt:-	STM1129	100	STM3337	79	STM1129	100
1253091 atgtttggctat+ +	STM1167	100	STM3944	68	STM1167	100
1294199 atgattattati+ +	STM1210	100	STM0236	62.857	STM1210	100
1352824 atgaaactcg+ +	STM1273	100	STM3909	90	STM1273	100
1243536 atgacgaagt-	STM1155	100	STM2401	70	STM1155	100
1286074 atgttttagtc+ +	STM1202	100	STM4564	64.762	STM1202	100
3690239 atggaaacc:-	STM3526	100	STM4089	66.346	STM3526	100
3722204 atgaaacca:-	STM3551	100	STM2249	75	STM3551	100
4802734 atgaatacag-	STM4542	100	STM0546	65.385	STM4542	100
4841973 atgcaccagc-	STM4584	100	PSLT108	74.51	STM4584	100
1354784 atgcgaatcc-	STM1277	100	STM1226	61.165	STM1277	100
4805539 ttgctgtctggc-	STM4546	100	STM4011	56.311	STM4546	96.51
4843535 atggatcagg-	STM4586	100	STM1519	70	STM4586	100
316007 atggcaaac+ +	STM0274	100	STM4301	57	STM0274	100
2893611 atgctggaggt+ +	STM2754	100	STM1855	55.446	STM2754	100
2922580 atgagactga+ +	STM2775	100	STM0586	68.317	STM2775	100
4829596 atgccagca:-	STM4573	100	STM2112	59	STM4573	100
318168 atgaacaga+ +	STM0277	100	STM0757	88	STM0277	100
342721 gtggttattca+ +	STM0299	100	STM0972	58.654	STM0299	100
2925769 atgggtatga:-	STM2777	100	STM0585	83	STM2777	100
4217415 atgatggcga-	STM4008	100	STM2272	70	STM4008	100
1193964 atgaaaaatg+ +	STM1106	100	STM2289	72.277	STM1106	100
2522040 atgcaaaac-	STM2405	100	STM0994	62.136	STM2405	100
2560231 gtgacacatc-	STM2449	100	STM0951	60	STM2449	100
2605639 ttgtgtatgca+ +	STM2490	100	STM3791	89	STM2490	100
1050756 atgtccacct+ +	STM0968	100	STM1901	58.824	STM0968	100
1080209 atgtcattgac+ +	STM0993	100	STM1378	60.396	STM0993	100
4224853 atgaataagc-	STM4015	100	STM0429	60.784	STM4015	88.16
2684316 atgctgcaaa-	STM2545	100	STM4600	67.327	STM2545	100
2734729 atgattaaatt:-	STM2587	100	STM1868	96	STM2587	100
4289399 atgactgttatt+ +	STM4079	100	STM4571	50	STM4079	100
4335042 atgcaatcca-	STM4118	100	STM1909	61	STM4118	100
4556384 atgccatgta+ +	STM4308	100	STM0285	63.462	STM4308	100
3084028 atggacaatt-	STM2943	100	STM2459	62.5	STM2943	100
2620798 atgaaactaa-	STM2503	100	STM2410	70	STM2503	100
2699867 atgagttctgt+ +	STM2558	100	STM4294	68.932	STM2558	100
	STM2590	100	STM2591	100	STM2590	100
4279743 ttgcagggtga+ +	STM4068	100	STM2449	63.303	STM4068	100
4328715 atgactaaaa+ +	STM4113	100	STM3858	71.429	STM4113	100
3002476 atgctgtttgt+ +	STM2857	100	STM0956	63.393	STM2857	100
4736564 atgatccgcg+ +	STM4490	100	STM3952	58	STM4490	100
4770464 atggttcatgc-	STM4515	100	STM1041	58.654	STM4515	100
2130998 atggaaaga+ +	STM2055	100	STM2470	74	STM2055	100
1351768 atgctggca:-	STM1271	100	STM0796	62.5	STM1271	100
1560928 gtgcaacaat+ +	STM1483	100	STM1482	58	STM1483	100

1322740	gtgatagaat:-	STM1234	100	STM1234	100
1297186	atgacaacgc-	STM1213	100	STM2451	59.223
3635028	atgaacccta+	STM3478	100	STM2513	71.698
2034567	atgatgatgc:-	STM1940	100	STM1197	63.107
4659374	atgtctaaac:+	STM4417	100	PSLT081	72
4679211	atgaaagaa:+	STM4434	100	STM2207	65.094
4728994	atggaagtaa-	STM4484	100	STM0067	62.264
4662753	atgtctcaga:+	STM4419	100	STM4418	69
4681124	atgaaaattg:+	STM4436	100	STM4436	
4730788	atgacgataa-	STM4486	100	STM1229	63.462
2454925	atgaacgtaa-	STM2341	100	STM2154	65.049
2022067	atgggaacaa:-	STM1925	100	STM2941	62.5
1421194	atgcaaaaact+	STM1341	100	STM4232	50
2159124	atgaaaatca-	STM2080	100	STM4057	90
4042371	atgtcactgac-	STM3836	100	STM2334	63.725
2714543	atgccgccc:-	STM2568	100	STM0530	57.798
242760	atgaaaatcg-	STM0207	100	STM1387	92.308
149960	atgcgtttatct+	STM0127	100	STM0639	62.617
126670	gtgttaaaaa:-	STM0108	100	STM2641	63.725
2496594	gtggataaaa-	STM2385	100	STM1775	63
1402202	atgggttttatc-	STM1321	100	STM0545	62.5
2065326	atgatgaaga+	STM1978	100	STM3459	86.275
2241845	atgcagcctg-	STM2147	100	STM2147	
1545403	atggtaacgg+	STM1469	100	STM4326	65
2170898	atgaccttttg-	STM2089	100	STM0030	62.5
2175669	gtgatgattgt:-	STM2094	100	STM1236	55.446
4059905	atgtccaaa+	STM3852	100	STM3242	52.885
257001	atggctacca+	STM0218	100	STM2829	62.5
476492	atgagttttgal-	STM0422	100	STM0422	
161394	atgctaataca:+	STM0136	100	STM1776	63.551
2430352	atggaattcgc:-	STM2320	100	STM0591	64
1142581	gtgtaccatttt-	STM1054	100	STM0554	57
1108337	atggcccgcac+	STM1016	100	STM2624	100
563163	atgacagaa:+	STM0502	100	STM0878	82
553461	atggccatga-	STM0493	100	STM3764	68
4583244	atgacgacta-	STM4341	100	STM2515	57.547
2757517	atgattccgg-	STM2608	100	STM2608	
1111376	atggctaaatt+	STM1021	100	STM2619	100
3350042	atgcaaatga+	STM3186	100	STM0870	61.905
3386084	atgaaagca:+	STM3218	100	STM0793	78
3431358	atgaaatcag+	STM3261	100	STM1542	63.81
2403672	gtgctggcatt-	STM2296	100	STM3789	63.462
2541016	atggaacca:-	STM2427	100	STM3406	64.078
581016	atgaaactgg+	STM0519	100	STM3248	67
32119	atgtattatca:+	STM0028	100	STM1139	67
2747779	atgatgggae-	STM2597	100	STM0916	90
2760192	atgaatgaca-	STM1027	100	STM2613	100
2794010	atgttgcaaaa+	STM2652	100	STM4410	62.857
3371391	ttgatgagcg:-	STM3205	100	STM3799	66.346
3755648	gtgagccagc-	STM3586	100	STM0817	77
3448125	atgatgagttc-	STM3280	100	STM1655	68.627
473002	atggcatgtg:+	STM0419	100	STM1694	76.238

2552562	gtgaatacatt-	STM2440	100	STM2430	76	STM2440	100
915711	atggcggaac-	STM0845	100	STM4162	66	STM0845	100
304133	atgagcactg+	STM0264	100	STM0490	66.038	STM0264	100
1501489	atgagcagag:+	STM1422	100	STM2887	60	STM1422	100
2463625	gtgattgagai-	STM2352	100	STM0888	86	STM2352	100
14734	atggcgaaa:+	STM0013	100	STM1112	68.317	STM0013	100
1831988	atgacccttg:-	STM1737	100	STM2364	59.434	STM1737	100
2565654	atgatcaatg:-	STM2455	100	STM2045	72	STM2455	100
4289026	atggctgatt:+	STM4078	100	STM0618	65.766	STM4078	100
77028	ttgattaagtc:+	STM0066	100	STM3469	59	STM0066	100
2571250	atgggaatta:-	STM2460	100	STM4294	64.078	STM2460	100
4342795	atggcactttg+	STM4123	100	STM4203	77.451	STM4123	100
822955	atggcgact-	STM0758	100	STM3137	64.151	STM0758	100
814552	atggccaga:+	STM0746	100	STM3158	66	STM0746	100
2954626	ttggcaacaa+	STM2807	100	STM2806	46	STM2807	100
1597528	ttgagtattgc-	STM1519	100	STM4586	70	STM1519	100
3024081	ttgcaagcac-	STM2879	100	STM1344	56.436	STM2879	100
1774528	atgactgtcac+	STM1680	100	STM1760	60	STM1680	100
3549702	gtgcgtctgac+	STM3378	100	STM1560	61.386	STM3378	100
281237	atggcgctta:+	STM0239	100	STM1784	92	STM0239	100
1319363	atgatgcgcg-	STM1231	100	STM2785	65.347	STM1231	100
4385890	atggatctcgc+	STM4168	100	STM3725	64.151	STM4168	100
2487283	atgagttggg:+	STM2375	100	STM3514	62.136	STM2375	100
4621236	atgtctggc:+	STM4377	100	STM1356	59.223	STM4377	99.81
1480400	atgtctgagg:+	STM1393	100			STM1393	100
1278265	atgtatacga:+	STM1193	100	STM3239	52.381	STM1193	100
1799664	atgaactccc+	STM1704	100			STM1704	100
1999037	atggtaagcg+	STM1904	100	STM0267	63.725	STM1904	100
		STM4261	100	STM2284	60.952	STM4261	99.7
1101293	atgtgcgccc-	STM1008	100	STM2633	100	STM1008	100
1230378	atgttaatga:-	STM1142	100	STM3606	63	STM1142	100
782989	gtgcagccc:+	STM0717	100	PSLT041	60	STM0717	100
4387685	gtgaacagttt+	STM4171	100	STM2251	65.385	STM4171	100
4185076	atggacgccc:+	STM3978	100	STM2317	89	STM3978	100
4159554	atggacaag:-	STM3953	100	STM0030	60.194	STM3953	100
4125165	atgagcgata+	STM3915	100	STM2649	64.151	STM3915	100
1862156	atgagtaaati-	STM1764	100	STM1577	91	STM1764	100
1920903	atgtctatcgt:+	STM1822	100			STM1822	100
1832508	gtgctgtatgt+	STM1738	100			STM1738	100
3170031	atgctgtttgg:-	STM3010	100	STM4038	67	STM3010	100
3041600	atgattcctgg-	STM2897	100			STM2897	100
2849529	atgagcgaac:-	STM2699	100	PSLT101	66.99	STM2699	100
2123805	atggcgaata+	STM2046	100	STM1559	65	STM2046	100
1660596	atgacacgac+	STM1576	100	STM1765	81	STM1576	100
4150102	atggatgttttt:+	STM3941	100	STM0560	59.406	STM3941	100
4137121	atgactgtact+	STM3927	100	STM1479	83.168	STM3927	100
4108833	atgacagccc+	STM3900	100	STM3235	56.566	STM3900	100
2740794	atgggaaagi:-	STM0925	100	STM2589	100	STM2589	99.91
1909044	atgttgcgattt+	STM1807	100	STM3537	62.376	STM1807	100
1813043	atgcataaag+	STM1715	100	STM3264	59.615	STM1715	100
3074381	atgaacacc:-	STM2934	100	STM0659	57.843	STM2934	100
1974728	atggctaact:-	STM1880	100	STM2314	62.376	STM1880	100

680795 atgaacaca:-	STM0617	100	STM4103	60.396	STM0617	100
1622650 atgaatacta:-	STM1545	100	STM3917	68	STM1545	100
660676 atgaccggct+	STM0598	100	STM1073	60.194	STM0598	100
1702916 atgacctttct+	STM1612	100	STM3838	62.857	STM1612	100
1633137 atggcgaca:-	STM1555	100	STM3011	66.019	STM1555	100
1676030 atgaaaattai+	STM1587	100	STM3504	61.905	STM1587	97.92
1705338 atgagttggct+	STM1615	100	STM0725	59.434	STM1615	100
1725306 atgtcatcag:-	STM1634	100	STM3658	58.824	STM1634	100
1988193 gtgaaatgtg:-	STM1892	100	STM0783	76.699	STM1892	100
962516 atgcttattc-	STM0892	100			STM0892	100
583879 atggtcggcg+	STM0522	100	STM0521	94	STM0522	100
585319 atgtctttgatt+	STM0523	100	STM4445	63	STM0523	100
1042180 atgatgaaa+	STM0961	100	STM3626	57.426	STM0961	100
1731270 atgaatacaa-	STM1640	100	STM1295	63.81	STM1640	100
1841621 gtgcagcact+	STM1747	100	STM1586	60.194	STM1747	100
1891937 atgtgggatg:-	STM1792	100	STM0740	87	STM1792	100
1928060 atggaattatt:-	STM1828	100	STM2119	89	STM1828	100
3235699 atggttacgtt:-	STM3074	100	STM2441	68	STM3074	100
3859961 atggccgtgg+	STM3672	100	STM3171	64	STM3672	100
1629597 atgttcaccgt-	STM1553	100	STM2136	47.525	STM1553	100
4001885 gtggtaaaaa-	STM3799	100	STM3798	74	STM3799	100
3138791 atgtttgtgta+	STM2986	100	STM3955	68	STM2986	100
3227495 atgaagttca:-	STM3065	100	STM0747	59.406	STM3065	100
3279568 atgcccagata-	STM3120	100	STM3060	60.396	STM3120	100
3317563 atggagcctg-	STM3154	100	STM0464	63	STM3154	100
2986510 atgtctattctg+	STM2840	100	STM1533	65	STM2840	100
3250903 atgtctgacg:-	STM3086	100	STM4213	62.376	STM3086	100
4407200 ctgaaattata-	STM4186	100	STM4185	55	STM4186	100
3839618 ggtactgcca-	STM3654	100	STM0555	59	STM3654	100
3242287 atgctatatg-	STM3080	100	STM4468	65	STM3080	100
	STM3114	100	STM0701	86	STM3114	100
512365 atgaaacgc:-	STM0455	100	STM0209	67	STM0455	100
3760467 atgataagca-	STM3590	100	STM4037	60.577	STM3590	100
3267811 atggcaaag:-	STM3108	100	STM2381	60	STM3108	100
	STM0555	100	STM2509	96	STM0555	100
4683179 atggcatttgc+	STM4438	100	STM0087	61.765	STM4438	95.15
4816496 atgactatga+	STM4561	100	STM0055	62.376	STM4561	100
2960624 atgacgaaa+	STM2812	100	STM2690	62.376	STM2812	100
2221728 atgcttttttc+	STM2128	100	STM2127	73	STM2128	100
2316112 atgctaacac+	STM2215	100	STM0343	67	STM2215	100
2181431 atgcccgcg:-	STM2099	100	STM0516	61.905	STM2099	100
2225259 atgactgaatt+	STM2131	100	STM3502	74	STM2131	100
2303516 atgaaataca+	STM2203	100			STM2203	100
2208199 atgactgatc:-	STM2122	100	STM2933	48.039	STM2122	100
1943888 atggaaaatc-	STM1846	100	STM3869	59.615	STM1846	100
3890064 atgcttaacat+	STM3695	100	STM3176	61.905	STM3695	100
3833468 atgaaaaaa+	STM3645	100	STM1445	62.376	STM3645	100
2290429 atggagcgtg-	STM2192	100	STM0775	62.376	STM2192	98.45
1873331 atggattttca:-	STM1775	100	STM2642	65.347	STM1775	100
3858069 atgaaaaata+	STM3670	100	STM2690	65	STM3670	100
1966381 atgggttgttg:-	STM0907	100	STM1869A	99	STM0907	100
4618363 atggcaaaa:+	STM4375	100	STM2228	69	STM4375	100

3347290	ttggaagcc -	STM3183	100	STM1095	63.462	STM3183	100
3440056	gtgttagataa -	STM3273	100	STM3925	65	STM3273	100
3320002	atggcaatgc -	STM3158	100	STM0746	66.355	STM3158	100
3229284	atggaagattl -	STM3067	100	STM4102	78	STM3067	100
3488812	atgacctcttæ +	STM3325	100	STM3615	60.748	STM3325	100
3959055	atgtcctgcta -	STM3759	100	STM4414	60.952	STM3759	100
3325300	atgaacaattl +	STM3164	100	STM2461	54	STM3164	100
1755126	atgttaaaattl +	STM1660	100	STM3700	63.551	STM1660	100
3964268	atgactgaca -	STM3763	100	STM4456	78	STM3763	100
3318456	atgaaagaaæ +	STM3156	100			STM3156	100
3239418	atgaaaattcæ +	STM3077	100	STM0979	82	STM3077	100
1173855	atgtcgaacg +	STM1083	100	STM0019	68.932	STM1083	100
850176	atgaaacaæ +	STM0785	100	STM2180	50.962	STM0785	100
3259081	atgagcggcæ +	STM3097	100	STM3306	56	STM3097	100
1155180	atgtgtgaacæ +	STM1063	100	STM0544	66.981	STM1063	100
817256	atgaagcagæ +	STM0748	100			STM0748	99.77
862364	atgagttggcæ +	STM0795	100	STM2461	69	STM0795	100
911269	atgaccgttaæ +	STM0842	100	STM0840	88	STM0842	100
1690724	atggtaaaatl -	STM1599	100			STM1599	100
494585	atgagtcattc -	STM0440	100			STM0440	100
3195781	atgcacacaæ -	STM3034	100	PSLT105	74	STM3034	100
3262520	atgagtgtctg +	STM3102	100	STM3241	88	STM3102	100
543210	atgtttggaaæ +	STM0485	100	STM2272	65.421	STM0485	100
645465	atggaattcaæ +	STM0587	100			STM0587	100
2612659	atgaagatcg -	STM2498	100	STM3003	60.748	STM2498	100
1123161	gtggctaaga +	STM1034	100	STM0913	74	STM1034	100
2242569	atgaaaagta +	STM2148	100	STM2255	56.436	STM2148	100
401596	atgcagttccæ +	STM0355	100	STM0353	58.491	STM0355	100
466908	atggctatcat +	STM0411	100			STM0411	100
3896798	atggccaata -	STM3702	100	STM0369	61	STM3702	100
4622016	atgattatcag -	STM4379	100	STM1008	58	STM4379	100
3001358	atgtgcatagæ +	STM2856	100	STM3143	71.845	STM2856	100
1205202	atgccaactc -	STM1118	100	STM1712	62.162	STM1118	100
1334389	atgatgaaac -	STM1249	100	STM0762	60.784	STM1249	100
1393966	atgtttgatcttæ +	STM1314	100	STM4261	63.725	STM1314	100
3972330	ttgactaccac -	STM3772	100	STM2689	62.5	STM3772	100
3975347	atgagacgta -	STM3773	100	STM0571	72.277	STM3773	100
66893	atgaacgaaæ -	STM0056	100	STM0766	83	STM0056	100
19966	atggctacaa +	STM0018	100			STM0018	100
68392	atgaccaacæ -	STM0057	100	STM3512	60.396	STM0057	100
23054	atgaccatttc +	STM0019	100	STM1169	61.538	STM0019	100
32994	atgagacaat -	STM0029	100	STM0031	65.686	STM0029	100
108170	atgaaaaaaæ -	STM0093	100			STM0093	100
1232924	atgtccgtaat +	STM1146	100	STM0231	55.882	STM1146	100
1703194	atgatgaaæ +	STM1613	100	STM0612	59.615	STM1613	100
1756533	atgatcatgat -	STM1662	100	STM0706	62.745	STM1662	100
1693635	atgcttacaæ +	STM1603	100	STM2996	66.667	STM1603	100
1627087	atggcatttca -	STM1551	100	STM2643	51	STM1551	100
3401902	atgagcaaaæ +	STM3237	100	STM3852	62.5	STM3237	100
P66646	atgggaaata +	PSLT082	100	STM0282	69.811	PSLT082	100
P58490	atgatccactc +	PSLT070	100	STM4525	71.429	PSLT070	100
		PSLT108	100	PSLT109	100	PSLT108	100

P22248	atgagtcagc +	PSLT031	100	PSLT021	68	PSLT031	100
P67381	atgaaccggc +	PSLT084	100	STM2516	57.282	PSLT084	100
P25659	atgttaagag -	PSLT035	100	STM0670	54.455	PSLT035	100
R45735	+	STM2182	54.902	STM3189	48	STM2182	15.74
R46145	+	STM0489	61.386	STM3905	59.615	STM3905	23.86
R29886	+	STM1997	71.569	STM2022	64.423	STM1997	55.31
R42021	-	STM2326	52	STM2199	44	STM2326	14.32
R25333	-	STM2927	61.386	STM2031	50.495	STM2927	27.27
P17625	ttgtttgtagc -	PSLT023	100	STM0267	80.198	PSLT023	100
2859456	atgaatcgttt -	STM2714	100	STM2252	51	STM2714	100
		STM2777	100	STM0585	71	STM2777	100
		STM0915	100	STM2598	69	STM0915	100
		STM0918	100	STM2594	77	STM0918	100
994908	atggcaacgc +	STM0923	100	STM2590	80	STM0923	100
3274908	atgaaatcaa -	STM3114	100	STM0701	79	STM3114	100
		STM2238	61.538	STM1855	59.406	STM4503	25.58
		STM0705	100	STM0353	77	STM0705	69.32
		STM4235	63.551	STM0007	62.617	STM4235	31.05
		STM1095	62.376	STM2384	62	STM2405	34.46
		STM2237	90	STM0906	70	STM2237	55.24
		STM2754	58.252	STM1671	54.808	STM2754	29.87
		STM1009	60.952	STM2632	60.952	STM1009	23.81
		STM0547	65.385	STM0122	59.615	STM0122	17.32
		STM3474	61.905	STM2458	60	STM2458	14.95
		STM1709	62.376	STM3727	62	STM3727	8.75
		STM4207	78	STM4207		STM4207	45.29
		STM3506	53.465	STM0968	39.604	STM3506	7.4
		STM0158	62	STM0200	59	STM0200	45.3
		STM0216	26	STM0216		STM0216	10.84
		STM3478	47.525	STM1712	43.564	STM3478	26.96
		STM1056	98	STM1241	74	STM1056	66.68
		PSLT097	61.765	STM1046	59.804	STM1046	22.86
		STM0056	99	STM3353	94	STM0056	87.29
		STM2729	100	STM2729		STM2729	83.08
		STM2714	94	STM2713	93	STM2714	82.1
		PSLT104	62.037	STM0747	59.434	STM0747	4.91
		STM4524	97	STM3523	60.194	STM4524	19.84
		STM2725	92	STM3336	77.228	STM2725	56.17
		STM2994	64.151	STM2994		STM2994	6.97
1608015	atgcatgaatt -	STM1531	100	STM3144	66	STM1531	100

4024537	atgcgaaaa-	STM3823	100	STM2255	76	STM3823	100
487691	atgaaaatta-	STM0434	100	STM4413	59	STM0434	100
2101202	atgacgcag-	STM2019	100	STM0162	59.804	STM2019	100
47356	gtgaaacatc+	STM0039	100			STM0039	100
89454	atgaagataa+	STM0075	100	STM1354	74	STM0075	100
4261933	atgagtaacg-	STM4050	100	STM3099	61	STM4050	100
3336690	atgctatatatt-	STM3173	100	STM1714	71.287	STM3173	100
3490265	atgaaaaaa-	STM3327	100			STM3327	100
3533116	atgagtctgttt-	STM3366	100	STM0149	87	STM3366	100
3565386	atggcaaaact+	STM3391	100	STM0475	92	STM3391	100
717039	atgaacaag+	STM0653	100	STM0593	50.485	STM0653	99.37
182431	atgagtactg+	STM0154	100	STM0564	62	STM0154	100
209733	atgctgggat+	STM0178	100			STM0178	100
247229	atggctggct+	STM0210	100			STM0210	100
282393	atggtgagaa+	STM0241	100			STM0241	100
1603570	gtggccagg+	STM1525	100	STM0832	59.804	STM1525	94.21
3823012	atgaaaaac-	STM3636	100	STM3640	56	STM3636	100
3713162	atgaaaaag-	STM3543	100	STM4481	66	STM3543	100
4798537	atgtcaccaa+	STM4539	100	STM2101	61.765	STM4539	100
4849494	atgaatatga-	STM4592	100	STM2388	49	STM4592	100
2881637	gtggtaaatta+	STM2742	100	STM2099	63.107	STM2742	100
369997	atgttggtct-	STM0324	100	STM0325	100	STM0325	100
1141455	atggacacta+	STM1052	100	STM0260	63.551	STM1052	100
2857072	atggcagtc-	STM2708	100	STM4046	53.333	STM2708	100
2875089	atgactaaac+	STM2734	100	STM2735	71	STM2734	100
356839	atgtgcgaac+	STM0311	100	STM0004	61.321	STM0311	100
2932226	atgaataatc-	STM2783	100	STM1626	68.571	STM2783	100
1189510	atgaagggt+	STM1101	100	STM2177	67.327	STM1101	100
1226004	atggagataa+	STM1135	100	STM3646	66.99	STM1135	100
		STM1046	100	STM1047	100	STM1046	100
1180418	atgccagca+	STM1092	100			STM1092	100
1215169	gtgtgtgccc+	STM1126	100	STM0669	64	STM1126	100
1246004	atgcaatttaa-	STM1158	100	STM3980	60.577	STM1158	100
1291139	atgatcaaag+	STM1206	100			STM1206	100
3693603	atggttactac-	STM3529	100	STM4108	76	STM3529	100
3574084	atggaaacct-	STM3401	100	STM0528	64.486	STM3401	99.64
1250226	atgaaaaagi-	STM1164	100	STM4448	89	STM1164	100
3666454	atgaaaaaa+	STM3506	100	STM0045	65.714	STM3506	100
3695274	atgatgagca+	STM3530	100	STM3832	75	STM3530	100
3747589	atgactccgtt+	STM3579	100			STM3579	100
4283245	atgagcgata-	STM4073	100	STM3925	62.963	STM4073	100
1125603	atgttttaaac+	STM1039	100	STM2596	69.608	STM1039	100
4425993	atgaacacta-	STM4204	100	STM0557	66	STM4204	100
4468006	atggcagga+	STM4246	100	STM1288	62	STM4246	100
4524326	atgaaaaatt+	STM4283	100	STM3614	68.932	STM4283	100
3070745	atgcgaattg-	STM2929	100	STM3095	76.238	STM2929	100
945042	ttgaaacata+	STM0871	100	STM2382	56.863	STM0871	100
2491996	ttgcgccatc+	STM2379	100	PSLT006	61.765	STM2379	100
979581	atggacggc+	STM0909	100	STM1030	64	STM0909	100
999026	ttgatgacaa+	STM0925	100	STM2589	100	STM0925	100
2672697	atgaaacatt-	STM2532	100	STM0002	66	STM2532	100
4404976	atgaaaacc+	STM4184	100	STM0368	84	STM4184	100

4428331 atgaaaggc-	STM4207	100	STM4526	61.905	STM4207	100
4518218 atgacagcgc+	STM4278	100	STM2368	62.5	STM4278	100
4561757 atgctaaaag-	STM4315	100	STM2867	68	STM4315	100
4592559 gtgcgcctga-	STM4347	100	STM0478	72	STM4347	100
2515481 atgttctctca+	STM2401	100	STM1155	70	STM2401	100
2558527 atgtctcaggt-	STM2446	100	STM0621	59.813	STM2446	100
2604026 atggcttactc-	STM2488	100	STM3316	56	STM2488	100
1374766 atgcgaaccc-	STM1295	100	STM1640	64.423	STM1295	100
29432 atgaaaatac+	STM0024	100	STM0547	64	STM0024	100
4617715 atgcatatact+	STM4374	100	STM3951	61.765	STM4374	100
4651909 atgcgaatatt+	STM4411	100	STM0658	61.321	STM4411	100
2377959 atgaaaattat-	STM2273	100	STM3833	74	STM2273	100
2429801 atgatccccct-	STM2319	100	STM1340	61.905	STM2319	100
2419089 atgagaatgt-	STM2311	100	STM3229	66	STM2311	100
2453100 atgtctgtcgtt+	STM2339	100	STM3300	60.952	STM2339	100
2133614 atgcgcgcac+	STM2058	100	STM2532	50	STM2058	100
3409968 atgaatgaat-	STM3242	100	STM2057	83.333	STM3242	100
234730 atgatgtcatt+	STM0197	100	STM3027	65.686	STM0197	100
1236146 atgagctctgt-	STM1149	100		STM1149	100	
235734 atgaaaaaa+	STM0199	100	STM3904	60.396	STM0199	100
417712 atgacgactg-	STM0367	100	STM2562	73	STM0367	100
1361705 atgacctggtt-	STM1284	100	STM0820	55	STM1284	100
1506878 atgcaacctg-	STM1428	100	STM3290	63.366	STM1428	100
4626630 gtgactcagc+	STM4383	100	STM0884	67.647	STM4383	100
4663915 atggccaact-	STM4420	100		STM4420	100	
2467151 atgaaacgat-	STM2356	100	STM2921	68	STM2356	100
1416661 atgtcacatct+	STM1337	100	STM1358	61.905	STM1337	100
1456188 atggctggctt+	STM1372	100	STM1472	71.287	STM1372	100
4815477 atgacgtgtc+	STM4560	100	STM0400	58	STM4560	100
1571969 atgcacaccc-	STM1494	100	STM1492	67.327	STM1494	100
3978578 atgaatgaaa-	STM3776	100	STM0257	63.366	STM3776	100
4451990 atggcgagc+	STM4230	100	STM3554	76	STM4230	100
4093591 atggacgcat+	STM3882	100	STM2189	74	STM3882	97.1
288810 tgggcaaagt+	STM0248	100	STM4454	61.111	STM0248	100
2074348 atggcggac-	STM1991	100	STM0790	61.682	STM1991	100
4462315 atggaaaag-	STM4241	100	STM4241	58.824	STM4241	100
1385920 atgacgctat+	STM1305	100	STM1524	81.308	STM1305	100
1389042 atgcgtaaac+	STM1308	100	STM2689	56.731	STM1308	100
1437854 atggattttca-	STM1356	100	STM0073	73	STM1356	100
1519482 atgtctgggc-	STM1442	100	STM1523	64.486	STM1442	100
1259781 atgtctattgc+	STM1176	100	STM1178	65.347	STM1176	100
2176548 atgaaaacgc-	STM2095	100	STM3923	59.223	STM2095	100
364929 atgacgttac+	STM0319	100	STM2408	60.577	STM0319	100
4767739 atgacgactc-	STM4513	100	STM2249	61.765	STM4513	100
4854404 atgaagcagt-	STM4596	100	STM0020	65	STM4596	100
3798527 atgatgactat-	STM3617	100	STM2981	63.366	STM3617	100
3438693 atggacacac-	STM3270	100	STM1453	60.748	STM3270	100
2413999 atgcgtagcg-	STM2306	100	STM4600	65.049	STM2306	100
2394300 atgagcgcac+	STM2286	100		STM2286	100	
2606109 atgaatccac+	STM2491	100	STM1426	61.165	STM2491	100
565699 atgcaaaaat-	STM0505	100	STM1675	64.078	STM0505	100
2746590 ctgaaccggc-	STM2595	100	STM0917	84	STM2595	100

2759409 atgtttgtggc -	STM2611	100 STM1029	91 STM2611	100
3941024 atgtttgaactr -	STM3746	100 STM3908	65 STM3746	100
3814265 atgttgcaagtr -	STM3629	100 STM1745	67.925 STM3629	100
3811343 atgagtacgc -	STM3626	100 STM0848	71.287 STM3626	100
3715148 atgaccttac -	STM3545	100 STM1462	72 STM3545	100
1129325 atgatgaaa +	STM1042	100 STM0919	68 STM1042	100
1107227 atgagtatgtc +	STM1014	100 STM2626	100 STM1014	100
4713333 atggcaaacc +	STM4470	100 STM0963	61.468 STM4470	100
3088101 atgccagtc +	STM2945	100 STM0972	69 STM2945	100
4704905 atggctaacc -	STM4460	100 STM1886	63 STM4460	100
4313308 atgagtgtgal +	STM4101	100 STM0002	75 STM4101	100
774035 atggccgcgc -	STM0706	100 PSLT092	65.347 STM0706	100
780389 atgctgaatat +	STM0713	100 STM2126	70 STM0713	100
605281 atgataagga +	STM0544	100 STM1063	67.327 STM0544	100
2712141 atgatggaaa -	STM2565	100 STM2219	64.423 STM2565	100
4260902 gtggcaaacc +	STM4049	100 STM2129	65.094 STM4049	100
707487 atgaaatcgtt -	STM0645	100 STM0646	86 STM0645	88.07
308606 atggatccac -	STM0268	100 STM0796	60 STM0268	100
2702094 atgaacgttat +	STM2559	100 STM0234	83 STM2559	100
3660325 atgcaagag -	STM3502	100 STM2131	74 STM3502	100
1788158 atgccgttact +	STM1695	100 STM0848	66 STM1695	100
129662 atggcagag -	STM0110	100 STM4569	65.347 STM0110	100
1845806 atggctgttac +	STM1749	100 STM2461	69 STM1749	100
3036256 atgggctgatg -	STM2892	100 STM0468	63.208 STM2892	100
2570027 gtgaacctc -	STM2459	100 STM3789	66.355 STM2459	100
4239634 atgagtcagc +	STM4029	100	STM4029	100
696986 gtgagtgata -	STM0634	100 STM0030	67 STM0634	100
4383238 atgctaacc -	STM4165	100	STM4165	100
4233741 atgaacaact -	STM4022	100	STM4022	100
4210348 gtgagtttacc +	STM4002	100 STM0343	42 STM4002	100
1597065 atgaaaatgc -	STM1518	100	STM1518	100
1276019 atggccgtac +	STM1191	100 STM2221	86.139 STM1191	100
1776090 atgtcacaga +	STM1682	100 STM0371	76.238 STM1682	100
2617003 atgggtcagg +	STM2501	100	STM2501	100
3529496 atgaaaacg +	STM3362	100 STM3361	63 STM3362	100
3915613 atgaaaatag -	STM3719	100 STM4155	60.194 STM3719	100
349889 atgatgccga +	STM0305	100 STM3494	59.615 STM0305	100
4378922 atgttacgtatt -	STM4160	100 STM1725	68 STM4160	100
3975837 atgaaacga +	STM3774	100 STM1041	59.406 STM3774	100
2039370 atgcatcacg +	STM1948	100 STM1850	75.728 STM1948	100
4079305 atggaaaacc -	STM3870	100 STM2071	61 STM3870	100
2116321 atgaatgattc -	STM2037	100 STM4087	79 STM2037	100
4537498 atgtctcgga -	STM4294	100 STM2558	70 STM4294	100
2007583 atgatggtttal -	STM1911	100	STM1911	100
1807430 atgtcgtcaac -	STM1712	100 STM0111	61.765 STM1712	100
2812545 atgcaaaaac -	STM2670	100 STM0760	81.188 STM2670	100
3111879 atgagtactc -	STM2960	100 STM2961	86 STM2960	100
482132 atgctgatga -	STM0428	100 STM1226	74 STM0428	100
4183412 atgcaatcctc -	STM3977	100 STM1008	56.436 STM3977	100
4159125 atgctgagcg +	STM3952	100 STM4490	58.824 STM3952	100
4133003 atgaaaggc +	STM3923	100 STM2095	59.223 STM3923	100
1979432 atgaaatccta -	STM1885	100 STM3622	65.094 STM1885	100

4121787 atgcgtttaaa +	STM3912	100	STM3951	66	STM3912	100
125711 atggcaacgc -	STM0107	100	STM3312	67.327	STM0107	99.94
1842651 gtgattcaacc -	STM1748	100			STM1748	100
1888486 atgactggaa +	STM1788	100	STM1537	77.228	STM1788	100
3158811 atgaaacagf -	STM3001	100			STM3001	100
1837631 atgagcttatc -	STM1743	100	STM3627	78	STM1743	100
4252758 atgaaacact -	STM4042	100	STM0834	67.327	STM4042	100
4160947 atggacgca: -	STM3955	100	STM2986	68	STM3955	100
4116323 gtgattgccaa: +	STM3907	100			STM3907	100
2750465 atgtcgcagtc -	STM2601	100			STM2601	100
1905842 atggcaatga +	STM1804	100	STM0571	64.706	STM1804	100
1852410 atgcaatcac +	STM1756	100	STM2500	59.406	STM1756	100
1688279 atgacgatat: -	STM1597	100	STM3680	77	STM1597	100
1943182 atgaacacttt -	STM1845	100	STM0481	55.66	STM1845	100
1986399 gtgcaacag: -	STM1890	100	STM4527	60	STM1890	100
564869 atgtccgtac: -	STM0504	100	STM2649	73	STM0504	100
589958 atgataaagc -	STM0527	100			STM0527	100
595114 atgaaacgta +	STM0531	100	STM2318	59	STM0531	100
638146 atggacggtc -	STM0579	100	STM1703	59.804	STM0579	100
679754 atgtccagac -	STM0616	100			STM0616	100
1626394 atgacgcaac -	STM1549	100	STM3186	60.194	STM1549	100
1884333 atgaaaaata -	STM1785	100	STM4157	63.063	STM1785	100
1706551 atgatcctgc: +	STM1617	100	STM3483	66.99	STM1617	100
1709044 atgaaaactc -	STM1620	100			STM1620	100
1746953 atgactaaag -	STM1653	100	STM2723	61.111	STM1653	74.83
1775468 atgagatctgt -	STM1681	100	STM1185	87	STM1681	100
560446 atgtctcaaac -	STM0498	100	STM0353	81	STM0498	100
1600092 atgacaatca -	STM1522	100	STM0257	74	STM1522	100
1642501 atgagttcaa: -	STM1560	100	STM4453	72.549	STM1560	100
3245838 atggacacc: -	STM3083	100	STM1508	77	STM3083	100
488308 atgaagggga: +	STM0435	100	STM3742	50.98	STM0435	100
3750621 atggcaacc: +	STM3582	100	STM1481	78	STM3582	100
4252099 atgggcaata -	STM4041	100	STM4042	100	STM4041	76.6
3860959 atgaaattac: +	STM3673	100	STM3169	64	STM3673	100
3925881 atggcagaa: +	STM3732	100	STM0112	66.355	STM3732	100
3932841 atgagattatg -	STM3739	100	STM2838	91	STM3739	100
3131514 atgaaacaa: +	STM2977	100	STM1576	72	STM2977	100
2845814 gtgaactttaa -	STM2695	100	STM2318	58.252	STM2695	100
450580 atgcgcatcc -	STM0396	100	STM1806	52.427	STM0396	96.39
3301677 atgttataaaa: -	STM3138	100	STM1626	66	STM3138	100
3774353 atgatgggtat -	STM3601	100	STM0572	77	STM3601	100
3891136 gtgaagaga: -	STM3696	100	STM2539	62.136	STM3696	100
3984421 atgcaggata -	STM3784	100	STM1209	59.406	STM3784	100
2839053 atgctctact +	STM2689	100	STM1278	64.078	STM2689	100
61792 atggatagca -	STM0052	100	STM0053	80	STM0052	89.45
477415 atggactttac -	STM0423	100			STM0423	100
3326233 atggctaatac: +	STM3165	100	STM0255	71.028	STM3165	100
2337184 atgagtgaac -	STM2236	100			STM2236	100
2253697 atgctgagta: -	STM2157	100			STM2157	100
1015658 atgttttcagg: -	STM0938	100			STM0938	100
3837364 atgtcgaaat: +	STM3650	100	STM1881	56	STM3650	100
4581817 atgtcctggat +	STM4338	100	STM1220	58	STM4338	100

4683664	atgcgtaaaa+	STM4439	100	STM4212	52.941	STM4439	100
3594944	atgattcgta-	STM3438	100	STM1622	71	STM3438	100
4600347	atgatgaatc+	STM4357	100	STM0995	65.385	STM4357	100
3453389	atggcgaaa(-	STM3285	100	STM1538	51.429	STM3285	100
3363992	atgaaagta-	STM3200	100	STM3073	63.462	STM3200	100
3288810	atgaatacaa-	STM3128	100	STM0960	60	STM3128	100
2965924	atgaaggcta-	STM2816	100	STM1479	68.627	STM2816	100
4840972	atgatgctgc+	STM4582	100	STM4123	62.376	STM4582	100
431579	atgtttaatct+	STM0376	100	STM1742	65.049	STM0376	100
2312495	tgaccaa(-	STM2212	100	STM4530	64	STM2212	90.63
2173345	atgattgata-	STM2091	100			STM2091	100
2246344	atgctaagga-	STM2150	100	STM0023	67	STM2150	100
1935327	tgaaaaag(-	STM1836	100	STM0122	79	STM1836	100
		STM3113	100	STM2421	81	STM3113	96.32
3226483	atgaaacgtc+	STM3064	100	STM3897	62.857	STM3064	100
818613	atgagcagta+	STM0750	100			STM0750	100
886950	atgtctttgatt+	STM0820	100	STM1655	74	STM0820	100
3204401	atgaaaaag(-	STM3043	100	STM1875	58.095	STM3043	100
1262591	atgatcagttc+	STM1179	100	STM1178	62.617	STM1179	100
858736	atgaaacttat-	STM0792	100	STM1081	70	STM0792	100
933603	atgtattcatta-	STM0860	100	STM2377	61.682	STM0860	100
3483107	atgagtaaaa+	STM3317	100	STM3369	61.111	STM3317	100
3965183	atggaggaar-	STM3764	100	STM0493	92	STM3764	100
3262233	atgaatacgtt+	STM3101	100	STM2293	67.327	STM3101	100
2038903	ttgatcaacgt-	STM1947	100	STM2072	79	STM1947	100
3498983	atgtgttacga+	STM3330	100	STM0670	69	STM3330	100
3424384	gtgatctacac+	STM3254	100	STM1382	62.376	STM3254	95.91
3378248	atgccgcata+	STM3211	100	STM2924	68	STM3211	100
1484994	atgaaaaaa(-	STM1399	100	STM2956	64.078	STM1399	100
2333959	atgatctaca+	STM2232	100			STM2232	100
827343	ttgttaggtaa+	STM0763	100	STM1401	61.905	STM0763	100
811097	atgttagatat+	STM0740	100	STM1792	87	STM0740	100
3016317	atggcaacac-	STM2873	100	STM3307	77	STM2873	100
2947626	atgaatttgat(-	STM2799	100	STM1751	68	STM2799	100
3922205	atggctaaag-	STM3727	100	STM1187	46.602	STM3727	100
2816888	atggtaactat-	STM2676	100	STM1559	52	STM2676	100
602700	atggcgacat-	STM0541	100			STM0541	100
1800587	atgagcgattr-	STM1706	100	STM1103	83	STM1706	100
1792018	atgtccataac+	STM1699	100	STM2502	58.929	STM1699	100
2055237	atgaaaaata+	STM1966	100	STM3075	93	STM1966	100
1679547	atgtcgcacc-	STM1592	100			STM1592	100
4151326	atgcaaaa(-	STM3944	100	STM1167	74	STM3944	100
4119225	atggcaaaa(-	STM3910	100	STM0092	50.495	STM3910	100
1067904	atgaccaagt+	STM0982	100	STM3755	61.386	STM0982	100
3078540	ttgatgagat(-	STM2937	100	STM3201	62.264	STM2937	100
3863118	atgagccgac+	STM3675	100	STM4386	67	STM3675	100
1440375	atgaaaacc(-	STM1358	100	STM1337	62.376	STM1358	100
1432212	atgagttcgg(-	STM1351	100	STM0078	77	STM1351	100
4151836	atgcaatatc(-	STM3945	100	STM4514	59.804	STM3945	100
4580625	atggttaaaa+	STM4336	100	STM4335	56	STM4336	100
4856322	atgactaaag+	STM4599	100	STM4413	59	STM4599	100
255	atgaaccgc+	STM0001	100	STM4234	60.606	STM0001	100

4705162	atgtcgtaca+	STM4462	100	STM4463	49	STM4462	100
1818455	atggcagcgc+	STM1722	100	STM3622	68.889	STM1722	100
1357720	atgtacgatc+	STM1281	100	STM0532	46	STM1281	100
3359523	atgctgatga-	STM3197	100	STM3807	59.406	STM3197	100
3462184	atgtacgaag-	STM3293	100	STM2116	70.192	STM3293	100
945797	atgcgcacgc+	STM0873	100	STM3832	89	STM0873	100
1053930	ttgcgcgtga-	STM0971	100	STM1163	63.208	STM0971	100
964207	atgcaaca-	STM0894	100	STM1006	65	STM0894	100
785168	atgcaacgta+	STM0719	100	STM2530	61.165	STM0719	100
P22808	atgcattttca+	PSLT032	100	STM0468	61.765	PSLT032	100
P73547	gtgtttatgcg+	PSLT093	100			PSLT093	100
P48755	atgttcagagt+	PSLT056	100	STM2759	70.588	PSLT056	100
P83179	gtgggaatga+	PSLT102	100	STM1668	61.468	PSLT102	100
P64639	atgagaaaa+	PSLT080	100	STM4028	63.366	PSLT080	95.98
P04725	atggagctgg-	PSLT008	100	STM4295	62	PSLT008	97.56
		STM1828	100	STM0037	63.462	STM1828	100
P92540	atgatgagta+	PSLT108	100	STM0747	61.386	PSLT108	100
37057	atgaataaga+	STM0032	100	STM0038	76	STM0032	100
		STM2043	100	STM0326	72	STM2043	100
		STM2119	100	STM3853	60.194	STM2119	100
		STM2210	100	STM3148	63.462	STM2210	100
		STM0966	100	STM1496	89	STM0966	100
		STM3181	100	STM3835	70	STM3181	100
		STM3240	100	STM1826	77.451	STM3240	100
		STM3331	100	STM2479	80	STM3331	100
		STM1041	100	STM2594	100	STM1041	100
		STM4514	59.615			STM4514	18.11
		STM2197	48.544	STM3757	31	STM2197	16.67
		STM2089	65.686	STM2208	62.5	STM2089	19.85
		STM2711	93	PSLT104	63.551	STM2711	85.2
		STM2937	85	STM0113	55.238	STM2937	76.5
		PSLT018	59.615	STM1237	57.282	STM1237	21.28
		STM3679	48	STM1922	41	STM3679	4.88
		STM2733	93			STM2733	84.8
		STM2717	96	STM1201	64.423	STM2717	92.2
		STM2700	95			STM2700	89
		STM1604	55.882			STM1604	7.55
		STM0046	51.485			STM0046	11.23
		STM2731	93	STM3305	81	STM2731	87.7
		STM2715	89	STM2460	60.784	STM2715	82.7
		STM0946	98	STM1957	98	STM0946	91.58
		STM1631	59.813	STM2767	59.804	STM2767	14.38
		STM3381	60.784	STM3883	56.863	STM3883	35.3
		STM4217	63			STM4217	52.82
		STM2513	44	STM2517	38	STM2513	27.68
		STM2786	100	STM0827	61.468	STM2786	84.84
		STM3688	98	STM3501	57	STM3688	96.7
		STM2731	100	STM2289	63.81	STM2731	98.2
		STM4318	94			STM4318	87.57
		STM2003	66	STM3759	64.762	STM2003	10.24
		STM2162	43.689	STM3789	34	STM2162	6.75

STM2297	61.111	STM1316	60.784	STM0221	10.84
STM0591	66.038	STM2204	61.386	STM0591	2.79
STM0354	61.468	STM1703	61.111	STM0354	30.22
STM4501	90	STM3330	48.515	STM4501	76.77

769697 atgaacgacç-	STM0703	100	STM2130	79	STM0703	100
4037825 atgatgaaa+	STM3833	100	STM2273	74	STM3833	100
4063449 atggctgcaa-	STM3856	100	STM2964	64.356	STM3856	100
4099651 atgccttaag-	STM3888	100	STM0784	60.396	STM3888	100
1876647 atgaccctgc+	STM1778	100	STM3524	63.107	STM1778	100
131073 atggccaaaç-	STM0111	100	STM0329	74	STM0111	100
51824 atgagttctgt-	STM0042	100	STM0722	48.077	STM0042	100
140405 atgttccgggç+	STM0119	100	STM0351	73	STM0119	100
174753 atgatggaca-	STM0150	100	STM0568	79	STM0150	100
208335 atgaattcattç-	STM0176	100	STM4594	75	STM0176	100
237103 atgaaaatae+	STM0201	100	STM1327	62.963	STM0201	100
280512 atgctgacag-	STM0238	100			STM0238	100
3514669 atgcaaagcç-	STM3346	100	STM2298	63.636	STM3346	100
3552276 atggacgctc+	STM3381	100	STM2784	63.366	STM3381	100
709110 gtgcgatatct-	STM0647	100	STM3215	88	STM0647	100
737230 atgacaaatc+	STM0671	100	STM3056	72	STM0671	100
763382 atgagtaaac-	STM0700	100	STM2558	65.347	STM0700	100
2051595 atgacctcaa+	STM1962	100	STM4303	65	STM1962	100
1363762 atgaatatattç-	STM1285	100			STM1285	100
2198813 atgacaacaç-	STM2115	100			STM2115	92.43
2861209 atgaagttgttç-	STM2718	100	STM2305	63.725	STM2718	100
2889742 atgtttctggtc+	STM2750	100	STM2832	61	STM2750	100
2908423 atgagccttta-	STM2766	100	STM0437	62.264	STM2766	100
2942880 atgaatacca+	STM2792	100	STM3468	65.347	STM2792	100
4855103 atgaaaaaal-	STM4597	100	STM1146	58	STM4597	100
323827 atgtctgtctç+	STM0284	100	STM2086	63.366	STM0284	100
2901314 atgtcgcgac+	STM2760	100	STM2006	71	STM2760	100
1146753 atgacacaac+	STM1057	100	STM3515	62.376	STM1057	100
1572888 atgaccacttt-	STM1495	100	STM4308	63.462	STM1495	100
3604594 atgtccaggtç-	STM3452	100			STM3452	100
1149785 gtggcgacgt-	STM1060	100	STM4208	61.386	STM1060	100
1531569 atggtattcag-	STM1456	100	STM3190	78.431	STM1456	100
3587800 atgctgttaaa-	STM3421	100	STM0386	62.136	STM3421	100
3618413 atgtggcgaa+	STM3467	100	STM2558	63.208	STM3467	100
3658182 atgctgcttaç+	STM3500	100	STM3134	53.465	STM3500	100
1348122 atgactggttc+	STM1265	100			STM1265	100
1217937 atgattacacç-	STM1128	100	STM3109	52.475	STM1128	100
1283634 atgaaaaaal+	STM1199	100	STM2441	62.5	STM1199	100
1304572 atgaataaga+	STM1218	100	STM0891	72	STM1218	100
3712028 ttgagcacga-	STM3542	100	STM4485	69	STM3542	100
1116159 atgtttgtggc+	STM1029	100	STM0908	96	STM1029	100

4423932 atggcgatag -	STM4202	100	STM0597	67	STM4202	100
4268325 atgactgaag +	STM4057	100	STM0730	63.462	STM4057	100
4299083 atgactgaac -	STM4090	100	STM1965	54	STM4090	100
4347736 atgacccccg -	STM4129	100			STM4129	100
3049427 atggaattaai +	STM2907	100	STM1853	67.647	STM2907	100
4581243 atgttgaaaai -	STM4337	100	STM4154	88	STM4337	100
2503702 atggcatga +	STM2391	100	STM2815	64	STM2391	100
961771 atgagtattca -	STM0891	100	STM0828	80	STM0891	100
2582258 atggatgagc -	STM2472	100	STM2466	63.725	STM2472	100
2609434 atgttcaggca +	STM2494	100	STM1990	72	STM2494	100
2690319 atgtcagtaat -	STM2551	100	STM3055	63.725	STM2551	100
4276938 atgaaactttc +	STM4065	100	STM0149	67	STM4065	100
4308674 atgttatttaca -	STM4098	100	STM3981	79	STM4098	100
3046643 atggaagaa -	STM2903	100	STM4258	63.208	STM2903	100
3068484 atggtaagtga -	STM2926	100			STM2926	100
3100382 atgacaacga -	STM2953	100			STM2953	100
964881 atgaacgtgc -	STM0895	100			STM0895	100
	STM0911	100	STM0912	100	STM0912	100
1003326 ttgaccagac -	STM0928	100	STM0557	63.208	STM0928	100
1390946 atgactctgca -	STM1310	100	STM0007	55.882	STM1310	100
1514681 atgaataagc -	STM1437	100	STM0386	61.538	STM1437	100
2068639 atgaaaacga +	STM1984	100	STM0086	61.682	STM1984	96.2
4666710 ttggcgtatgt +	STM4423	100	STM1355	60	STM4423	100
2393113 atgaaatttga +	STM2285	100	STM3645	68	STM2285	100
4753390 atgtttccagt -	STM4499	100	STM1899	56	STM4499	100
4742193 atgcggaai -	STM4493	100			STM4493	100
4774277 atgaaaaai +	STM4518	100	STM3766	77	STM4518	100
1226825 atgtatcccg +	STM1136	100	STM3744	62.136	STM1136	100
1375491 atggatgcac +	STM1296	100	STM1674	72.816	STM1296	100
1522228 atgaaatcgg +	STM1446	100	STM4512	62.376	STM1446	100
1546329 atgtcccgca -	STM1470	100	STM1614	59.048	STM1470	100
1552482 atgggactcg +	STM1476	100			STM1476	100
1242461 atgtcacctc -	STM1154	100	STM0382	76	STM1154	100
3009799 atgttcttaac +	STM2864	100	STM2863	66	STM2864	100
1529192 atgaacaaa -	STM1453	100	STM4202	62.136	STM1453	100
2073889 atgctgttccg +	STM1990	100	STM2494	71.569	STM1990	100
2154061 atgagtcaga +	STM2074	100	STM0190	76.471	STM2074	100
1378606 atgctgtgttt +	STM1298	100	STM1714	70	STM1298	100
1520320 atgaaattgg +	STM1444	100	STM1598	64.762	STM1444	100
1511624 atgagcacc +	STM1433	100	STM2511	59.223	STM1433	100
1540709 atgaaaaai -	STM1466	100	STM2981	75.238	STM1466	100
1496992 atgaagaatg +	STM1415	100	STM2894	71	STM1415	100
4084609 atggcagac -	STM3875	100	STM0124	59.804	STM3875	93.67
3983588 atgaatgatal -	STM3782	100	STM1614	70	STM3782	100
2723173 atggctgaatt -	STM2578	100	STM1073	63.462	STM2578	100
452849 gtgctggaac +	STM0398	100	STM0703	77	STM0398	100
4403640 atgaatccac +	STM4183	100	STM2074	62.136	STM4183	99.81
81616 atgagctatta -	STM0069	100	STM3399	59.804	STM0069	100
1403008 atgtcaacc -	STM1322	100	STM2820	59.804	STM1322	99.55
1409385 atgaacaag +	STM1330	100	STM2403	62.5	STM1330	100
2067145 atgatccagg +	STM1981	100	STM3294	65	STM1981	100
1537421 ttgatggtcag +	STM1462	100	STM3545	72	STM1462	100

1567142 atgctgaagc +	STM1489	100 STM1490	63 STM1489	100
2484596 atgcatccca +	STM2371	100 PSLT101	65.385 STM2371	100
2719392 atgaaaattgr-	STM2573	100 STM3279	61.765 STM2573	100
2763577 atgaacactc -	STM2617	100 STM2410	58.095 STM2617	100
3343837 atgcttaccgt +	STM3180	100 STM2370	61.111 STM3180	100
3738743 atgattcgctt -	STM3570	100 STM0428	73.529 STM3570	100
3638002 atggataagtl-	STM3482	100 STM1114	59.406 STM3482	100
390912 atgaaaaga +	STM0346	100 STM0833	56.731 STM0346	100
1466032 atgtttaaaga -	STM1382	100 STM3547	69.307 STM1382	100
523924 atgaaactcg +	STM0465	100	STM0465	100
617722 atgttgaagtt-	STM0559	100 STM4206	70 STM0559	100
4655271 atgagcttact -	STM4414	100 STM2898	61.386 STM4414	100
4789715 atggatacga -	STM4532	100 STM0600	89 STM4532	100
3352987 atggatgatgt-	STM3189	100 STM1723	70.297 STM3189	100
3388273 atgagctacc +	STM3219	100 STM3331	61.765 STM3219	100
3390073 atgacctcac +	STM3221	100	STM3221	100
3645753 atggcgcattc -	STM3491	100 STM1221	70 STM3491	100
2451362 gtgtcccgtat +	STM2338	100 STM2466	68 STM2338	100
2692351 atgatgccga +	STM2553	100	STM2553	100
593024 atgatccacg +	STM0529	100	STM0529	100
591029 atgaaaatca -	STM0528	100 STM3081	81 STM0528	100
3052846 atgaatgagtr +	STM2909	100 STM1124	63.366 STM2909	100
4271095 atgcgcaaaç +	STM4060	100	STM4060	100
728009 atgtacgaatt -	STM0663	100 STM0829	74 STM0663	100
3577445 atgtcagttttg +	STM3406	100 STM2427	64.078 STM3406	100
2726755 atggcgaacc -	STM2582	100 STM0931	60.185 STM2582	100
2156751 atgttaacag +	STM2078	100 STM0837	50 STM2078	100
4219207 gtgatcgaaa +	STM4009	100 STM3445	65.686 STM4009	100
951681 atgagcacac +	STM0879	100 STM1225	67 STM0879	100
3581702 atgagttttatt +	STM3410	100 STM3411	93 STM3410	100
2915414 atggctactat +	STM2772	100 STM2702	78 STM2772	100
1268097 atgcgtatcaç +	STM1184	100 STM2299	64.423 STM1184	100
2724830 atgagcactg -	STM2580	100 STM3843	64.423 STM2580	100
3791556 atgaaaacct -	STM3614	100 STM4283	68.932 STM3614	100
2694934 atgttaaagcç -	STM2555	100 STM1815	58.654 STM2555	100
1211558 atgggaaccç -	STM1124	100 STM2791	81 STM1124	79.35
1541987 atgcaaaaa -	STM1467	100	STM1467	100
940596 atgagtatcaç -	STM0867	100 STM0840	78 STM0867	100
903853 atgagctctggr +	STM0836	100 STM0570	62.745 STM0836	100
1956065 atgaagtttga +	STM1858	100 STM0637	59 STM1858	100
2270653 atgaacgattt +	STM2173	100 STM4114	58.491 STM2173	100
791718 atgaaaaag +	STM0725	100 STM0589	63 STM0725	100
4551524 atgaaacact -	STM4304	100 STM2512	63.107 STM4304	100
2032351 atgaaaatgg -	STM1938	100 STM0136	62.376 STM1938	100
1773610 atgaggcattt -	STM1679	100 STM1746	77 STM1679	100
1781463 atgggtggaa -	STM1688	100 STM0482	60.194 STM1688	100
4501259 atggataaaa +	STM4262	100 STM0956	63.366 STM4262	100
57793 atgtctaaatc +	STM0048	100 STM0070	59.804 STM0048	100
1113574 atgaaaaacç -	STM1025	100 STM1149	57.407 STM1025	100
1741738 atgtccagcg -	STM1649	100 STM0591	53.922 STM1649	100
4230701 atgaattctctç -	STM4019	100 STM0041	61.765 STM4019	100
3735599 atgaagggta -	STM3567	100 STM3564	88 STM3567	100

2870115 atgcaggact -	STM2728	100	STM2727	62	STM2728	100
	STM0291	100	STM0292	100	STM0291	99.93
2549795 atgatcgagc +	STM2436	100	STM1598	62.745	STM2436	100
1998589 atgatctacat +	STM1903	100	STM0790	60.577	STM1903	100
4482457 atgaatagaa +	STM4260	100			STM4260	100
3180836 atgaaagag -	STM3019	100	STM3982	69.903	STM3019	97.52
3374270 atgccggtaa +	STM3209	100	STM4291	58.824	STM3209	100
3022017 atgcattatntt +	STM2877	100	STM0449	57.843	STM2877	100
4175625 atgtccaagtc +	STM3968	100	STM4570	59.223	STM3968	100
4045024 gtgtcactttc -	STM3838	100	STM1612	62.857	STM3838	99.93
3225436 atgacgcagc -	STM3063	100	STM3587	62.963	STM3063	100
4139213 atgaccaata +	STM3929	100	STM1836	64.151	STM3929	100
3261648 atgaacgata +	STM3100	100	STM2360	61.765	STM3100	99.71
4365590 atgtctatcac +	STM4152	100	STM1400	51.456	STM4152	100
604672 atgaaacata +	STM0543	100	STM0021	77	STM0543	100
2012672 atggcggata -	STM1916	100	STM2271	65.686	STM1916	100
4212544 atgtctgaac +	STM4004	100	STM4500	61.538	STM4004	100
3175010 atggctgccg +	STM3014	100	STM0115	60.396	STM3014	100
4220859 atgagcgccc -	STM4011	100	STM4546	54.717	STM4011	100
4153086 atgatgcaatt +	STM3947	100	STM0175	67.961	STM3947	100
4108383 atgtcactggc -	STM3899	100	STM2936	88	STM3899	100
2049145 atggcacaca -	STM1959	100	STM2771	100	STM1959	100
3088923 atgtccaac -	STM2946	100	STM2445	64.762	STM2946	100
1648804 atgaaagctg +	STM1567	100	STM1627	66.99	STM1567	100
1701045 atgaccaaat +	STM1610	100			STM1610	100
1739789 atgaagggtg -	STM1646	100	STM1258	66.346	STM1646	100
1765253 atgatgatga +	STM1671	100	STM1287	62.385	STM1671	100
1618345 atgaaagtca -	STM1542	100	STM1365	64.151	STM1542	100
1588672 atgaccgtcg -	STM1510	100	STM3357	60	STM1510	100
1092879 atgagcgttgt -	STM1000	100	STM3593	68.317	STM1000	100
651579 atgaccgaat -	STM0590	100	STM0192	78.431	STM0590	100
384341 atgaaaatgg -	STM0339	100	STM3639	66	STM0339	100
1835575 gtgtcactttct -	STM1741	100	STM1283	58.416	STM1741	100
1678166 ttgatggattal -	STM1589	100	STM0621	58	STM1589	100
1933516 atgtcgtttacc -	STM1835	100	STM2221	65.049	STM1835	100
1720022 atgcctatnttc +	STM1629	100			STM1629	100
1977583 atgaaaaact -	STM1884	100	STM0125	60.194	STM1884	100
2027743 atggcagctg +	STM1932	100	STM1935	70	STM1932	100
576485 atgaaacttg +	STM0515	100	STM2777	77	STM0515	100
600520 atgttaaaaaal +	STM0537	100	STM2155	68	STM0537	100
633173 atgtctgttgct -	STM0572	100	STM3601	77	STM0572	100
444874 gtgcgtattgg +	STM0393	100	STM1220	62	STM0393	100
3313762 atgactggag -	STM3150	100	STM1539	65.049	STM3150	100
2978054 atgttcaagc -	STM2831	100	STM3666	66.346	STM2831	100
3819092 gtggcacact -	STM3632	100	STM0611	60.396	STM3632	100
4764087 atggctggaa +	STM4509	100	STM3131	70	STM4509	100
2506993 atgaaaaaaal -	STM2395	100	STM3685	64.423	STM2395	100
3966594 atgggttccac +	STM3765	100	STM3572	58.333	STM3765	100
3144173 atgataaagg +	STM2992	100			STM2992	100
3187730 atgacagaat -	STM3026	100			STM3026	100
3265348 gtggttcgac -	STM3105	100	STM0452	60.952	STM3105	100
523140 atgagtcaga -	STM0464	100			STM0464	100

2951065 atgccgcgct -	STM2803	100	STM4028	63.462	STM2803	100
3921103 atgcaaaaa+ +	STM3725	100	STM4168	64.706	STM3725	100
3124412 atgctcgcctc +	STM2972	100	STM3999	60	STM2972	100
3179228 gtggacgtaa -	STM3018	100	STM0537	62.136	STM3018	100
3243333 atgtcaacaa -	STM3081	100	STM2272	65	STM3081	100
3285434 atgtcctccgt -	STM3125	100			STM3125	100
2975915 atggctatcg -	STM2829	100	STM2858	59.804	STM2829	100
2201505 atgttaacaa -	STM2117	100	STM0957	57	STM2117	100
2344711 gtgattccctc -	STM2243	100	STM0926	96	STM2243	100
3908250 atgcgggtttt +	STM3712	100	STM3592	72.816	STM3712	100
3593786 atgccacgttc -	STM3436	100	STM1975	59	STM3436	100
3493851 atgcagttac -	STM3329	100	STM3576	64.706	STM3329	100
3421427 atgaacataa -	STM3251	100	STM1216	69	STM3251	100
3763083 atgaatacaa +	STM3592	100	STM1452	74	STM3592	100
1029236 atgaaacag -	STM0951	100			STM0951	100
4686410 atggaagag +	STM4444	100	STM0706	62.963	STM4444	100
4825860 atggcaactc +	STM4570	100	STM0067	60.377	STM4570	100
398283 atgcgtagaa -	STM0352	100	STM2126	64	STM0352	100
1380493 atgcgccgae +	STM1300	100	STM3369	64.078	STM1300	100
4574498 atgaatgaac -	STM4328	100			STM4328	98.34
2968993 gtgagtgcg -	STM2819	100	STM1577	63.366	STM2819	100
2294048 atggagagtt -	STM2196	100	STM2971	78	STM2196	100
2334456 atgagcataa -	STM2233	100	STM0588	49.515	STM2233	100
2247041 atgaaaatati -	STM2151	100	STM0339	61.905	STM2151	100
2276756 atgactcaac -	STM2179	100	STM1106	67.273	STM2179	100
1486451 atgaatcgaa +	STM1400	100	STM4152	50.962	STM1400	100
1160893 atgaaatata +	STM1069	100	STM3584	62.136	STM1069	100
828327 gtgtataatgc -	STM0764	100	STM4511	61.765	STM0764	100
901692 atgaattcaat -	STM0834	100	STM4250	67	STM0834	100
1381748 atgaaattgti -	STM1302	100			STM1302	100
3420240 atggccaata +	STM3250	100	STM0650	67	STM3250	100
880719 atgtttcatcgc -	STM0815	100	STM0816	63	STM0815	100
3218339 gtgcaaagtg -	STM3056	100	STM0671	72	STM3056	100
2047579 atgaaagaa -	STM1958	100	STM3273	63.81	STM1958	100
3393245 atgaactactgt +	STM3224	100	STM0600	83.168	STM3224	100
3236349 atgttgacgtt +	STM3075	100	STM2441	73	STM3075	93.59
1184863 atgaaacgat +	STM1097	100	STM0784	58	STM1097	100
3018765 atggaaaatc +	STM2875	100	STM4315	68	STM2875	100
3958187 atgttagcctg -	STM3758	100	STM2857	58.416	STM3758	100
3328383 atgacctgca +	STM3167	100			STM3167	100
1489752 atggatattgc +	STM1406	100	STM1781	66	STM1406	100
1195412 atgagcgcac +	STM1107	100	STM2290	75	STM1107	100
844374 atgtcatcgttc -	STM0778	100	STM0942	66.019	STM0778	100
2599049 atggactggc +	STM2484	100			STM2484	100
2680047 atggccttatt -	STM2539	100	STM0012	67	STM2539	100
2597690 atgattaccct +	STM2482	100	STM4192	62.136	STM2482	100
539102 atgtcgcttga -	STM0480	100	STM2323	61.165	STM0480	100
1897099 atgggaattal -	STM1797	100	STM1274	69	STM1797	100
4416617 atggcactcc -	STM4194	100	STM2941	62	STM4194	100
4787470 atgtttgatact -	STM4531	100	STM0601	77	STM4531	100
3688532 atggaacaat -	STM3525	100	STM4049	65	STM3525	95.61
3734307 atgaagctga +	STM3565	100	STM2147	61.682	STM3565	100

4560885	ttgagatatct-	STM4314	100	STM1461	64.762	STM4314	100
4437412	atgcgaaaa-	STM4218	100	STM2404	48.544	STM4218	100
2873769	atggctgattc-	STM2731	100	STM3534	62.857	STM2731	100
3844362	atgcagccta+	STM3658	100			STM3658	100
4830363	atgaaaaaa-	STM4574	100	STM4575	64.706	STM4574	100
364470	atgacacagc+	STM0318	100	STM1187	67	STM0318	100
5020	atgaaactct+	STM0004	100	STM1802	63.107	STM0004	99.76
1562342	gtgggggtga-	STM1485	100	STM1432	48	STM1485	100
1515023	gtggccgagc+	STM1438	100	STM1641	59	STM1438	63.49
34368	atgcgccaæ+	STM0030	100	STM1204	64.486	STM0030	100
74838	atgcatgaag+	STM0064	100	STM2918	61.386	STM0064	100
34816	atgactattat-	STM0031	100	STM0029	67	STM0031	100
39534	atgaaaaata-	STM0034	100	STM2423	66	STM0034	100
1246380	atgctgctct-	STM1159	100	STM0816	52.941	STM1159	100
2622272	gtggacgtac+	STM2508	100	STM2011	57.282	STM2508	100
3439538	atgctaattcg-	STM3272	100	STM0571	63.107	STM3272	100
3398430	atgattctctc+	STM3232	100	STM3616	61	STM3232	100
969841	atgaacacaç+	STM0899	100	STM0899	58.095	STM0899	100
1074667	atggatcatcç+	STM0987	100	STM2223	53.398	STM0987	100
992115	atggagacat+	STM0919	100	STM2593	77	STM0919	100
822020	atggatttttta+	STM0757	100	STM3911	65	STM0757	100
P45996	gtgatgtcgaç+	PSLT053	100	STM4323	72.549	PSLT053	100
P82669	gtgaacgaaç+	PSLT101	100	STM4163	75	PSLT101	100
P54192	gtgcgaacg+	PSLT065	100	STM2948	62.745	PSLT065	100
P62998	atgagcgcta+	PSLT077	100			PSLT077	100
P13341	gtgtcatttcat-	PSLT017	100	STM3028	64	PSLT017	100
P09423	atgttaaaatt-	PSLT014	100	STM2102	61.165	PSLT014	100
P50166	atgtcccgtttæ+	PSLT059	100	STM3681	61.905	PSLT059	100
2016417	atgtttaaccg-	STM1919	100	STM3577	62.745	STM1919	100
		STM0038	100	STM0032	76	STM0038	100
		STM0101	100	STM3677	77	STM0101	100
		STM0234	100	STM2559	79	STM0234	100
336645	atgtatgaagi+	STM0291	100			STM0291	100
		STM0973	100	STM3241	79	STM0973	100
		STM1005	100	STM0893	75	STM1005	100
		STM1032	100	STM0911	79	STM1032	100
		STM1038	100	STM0916	75	STM1038	100
		STM3391	100	STM0475	80	STM3391	100
		STM4467	58	STM2953	49.505	STM4467	38.43
		STM3923	100	STM2095	77	STM2095	61.5
		STM4426	60.396	STM3029	39.604	STM4426	23.19
		STM2702	87	STM2772	76	STM2702	72.1
		STM0481	47.573			STM0481	4.34
		STM1515	100	STM3176	62	STM1515	88.83
		STM2630	58.824	STM1670	50.485	STM2630	47.99
		STM3136	60	STM2514	44.554	STM3136	10.76
		STM2492	99	STM3247	79	STM3247	61.96
		STM3640	61.538	STM0543	60.577	STM3640	33.6
		STM1021	40.566	STM2619	40.566	STM1021	15.63
		STM2767	61.765	STM2238	60.952	STM4040	38.71

STM0747	61.538	STM4517	61.321	STM4517	21.13
STM2702	87	STM2772	76	STM2702	71.22
STM2746	62.376	STM0272	61.765	STM0272	12.79
STM0296	83	STM0395	51.923	STM0296	50.14
STM0437	64	STM0045	59.804	STM0437	31.84
STM0598	64.423	STM0927	61.682	STM2586	32.23
STM4491	59			STM4491	6.45
STM1194	61	STM3104	60	STM1194	11.73
STM4280	64.706	STM4399	61.538	STM4392	11.74
STM4004	61.321	STM2490	59.223	STM4004	9.75
STM0926	63.366	STM4539	62.857	STM4539	3
STM4284	58.252			STM4284	10.52
STM3172	65.385	STM1009	61.321	STM3172	16.65
STM4287	62.264	STM2754	56.19	STM4287	15.05

3038376 atgcaacattt -	STM2895	100		STM2895	100
546685 atgcgattatt +	STM0488	100	STM2224	61	STM0488
2106724 atgttgagcgt -	STM2027	100	STM2128	67	STM2027
3989042 atgcttcgtttt -	STM3788	100	STM2198	68.317	STM3788
70869 atgagaccac +	STM0060	100	STM0622	79	STM0060
103484 atgaataatc -	STM0090	100			STM0090
273030 atgtctgaac +	STM0231	100	STM3263	75	STM0231
3474837 atggaaagc +	STM3306	100	STM2749	64	STM3306
3512798 atggctgaaa -	STM3344	100	STM0844	59.259	STM3344
3549102 atgaaaaag +	STM3377	100	STM4489	61.905	STM3377
702020 atgacggata -	STM0639	100	STM0127	64.078	STM0639
727335 atgattaccct -	STM0662	100	STM0891	75	STM0662
200610 atggcagaa -	STM0169	100	PSLT039	56.731	STM0169
218281 atgtctgagc -	STM0188	100	STM4347	62.376	STM0188
264793 atggcgatga +	STM0224	100			STM0224
1587535 atgcaaaac +	STM1508	100	STM3136	80	STM1508
1616424 atgatgaaa +	STM1540	100	STM0814	58.252	STM1540
4033944 atgactctca -	STM3830	100	STM3592	63.462	STM3830
3738082 atgaataggc -	STM3569	100	STM0192	90.099	STM3569
4813796 atgatgaagt +	STM4559	100	STM0196	56.19	STM4559
298087 atgcctctcgc +	STM0257	100	STM1522	74.757	STM0257
355041 atgatgatttg -	STM0309	100	STM3920	66	STM0309
376629 atgagtacac +	STM0332	100			STM0332
1160255 ttgaccattac -	STM1068	100	STM1383	60.577	STM1068
2863042 atgaaaaag -	STM2720	100			STM2720
339275 atgctcggttt +	STM0294	100	STM1672	61.905	STM0294
2910980 atgacaaa +	STM2768	100	STM4367	62.136	STM2768
1165845 atgttaagtcc -	STM1073	100	STM2578	62.857	STM1073
1205819 atggcaaaag -	STM1119	100	STM0041	48.571	STM1119

1244808	atgccagtgtt +	STM1156	100	STM1766	65.094	STM1156	100
4202780	gtgaatctgg:-	STM3994	100	STM4256	72	STM3994	100
1192216	atgccgcact +	STM1104	100	STM3239	61.165	STM1104	100
1227986	gtgtgcgtgat +	STM1138	100			STM1138	100
1280349	atgagcacta +	STM1196	100	STM0920	58.559	STM1196	100
1302341	atgcctgaaa -	STM1216	100	STM0788	74.51	STM1216	100
3708281	atgtccagtc:-	STM3538	100	STM4465	66.038	STM3538	100
1237953	atgatgaaaa +	STM1150	100	STM1622	70.874	STM1150	100
3652319	atgagcacc:-	STM3495	100	STM4401	64.423	STM3495	100
3682580	atgatgaatta -	STM3519	100	STM0314	62.136	STM3519	99.92
1359778	atgaattgca -	STM1283	100	STM2672	83	STM1283	100
4222097	atgaataaca -	STM4012	100			STM4012	100
4296716	atgagtcaaa -	STM4087	100	STM2037	79	STM4087	100
4418646	atgattattgtt -	STM4196	100	STM2782	62	STM4196	100
4433964	atggctgga -	STM4212	100	STM1000	63	STM4212	100
4507495	atgtctacgcc +	STM4268	100	STM3851	65	STM4268	100
4554309	gtgacgcctaa +	STM4305	100	STM1498	77	STM4305	100
3081901	atgacaacgt -	STM2941	100	STM3056	63.725	STM2941	100
960287	atgaacgaat -	STM0889	100	STM2353	68.932	STM0889	100
2531578	atgaaaatca -	STM2415	100	STM2272	63.725	STM2415	100
988653	gtgatgcaac +	STM0917	100	STM2595	84	STM0917	100
1017518	atgattctcga +	STM0939	100	STM2481	60.377	STM0939	100
1095072	atgcatgagc +	STM1002	100	STM3905	81.373	STM1002	100
4420439	atgactcaat:-	STM4199	100	STM1009	59.615	STM4199	100
4326992	atgcccctga -	STM4110	100	STM2432	83	STM4110	100
4532472	atgctgaaaa +	STM4290	100	STM0212	90	STM4290	100
4580176	atggcgactt:-	STM4334	100	STM2211	61	STM4334	100
2494537	atgaaaaaa:-	STM2383	100	STM0447	73	STM2383	100
2536708	atgaaaaaa:+	STM2423	100	STM0034	66	STM2423	100
2586964	atgcgctacc -	STM2476	100			STM2476	100
2621402	gtgagtcagg +	STM2505	100	STM2506	100	STM2506	100
3021517	atgccacattt +	STM2876	100	STM0608	61.386	STM2876	100
4596144	atgaaaaaa:-	STM4351	100	STM0887	73	STM4351	100
4631230	atgaccaacc +	STM4392	100	STM1712	61.321	STM4392	100
2358904	atgaaactca -	STM2259	100	STM2752	69.307	STM2259	100
4727112	atgccattaat -	STM4482	100	STM3512	75	STM4482	100
2447061	atggaaatga -	STM2335	100	STM3282	62.617	STM2335	100
2438290	atggatgaaca -	STM2326	100	STM3241	64.078	STM2326	100
4794832	atgcgcaaa:-	STM4534	100	STM4005	75	STM4534	100
2043990	atgaaattag:-	STM1954	100	STM0890	60	STM1954	100
3597850	atgaaaggtc:-	STM3443	100	STM0447	63.366	STM3443	100
1166310	atgctgaccg -	STM1074	100			STM1074	100
1308724	atgaaaaaa:-	STM1222	100	STM0877	65.347	STM1222	100
2578045	atgaaaaaa:-	STM2468	100	STM4252	61.538	STM2468	100
1312046	atgaagaac:-	STM1225	100	STM0879	67	STM1225	100
1408077	gtgaacaaat -	STM1328	100	STM0850	50.495	STM1328	100
4615573	atgggaatttt:+	STM4371	100	PSLT016	62.376	STM4371	100
4643058	atgaccttac:-	STM4405	100	STM0221	61.765	STM4405	100
4672356	atgccagctc -	STM4428	100	STM2372	75	STM4428	100
1232473	atgcatacttt:+	STM1145	100	STM3538	48	STM1145	100
1960421	atgcgcaag:-	STM1862	100	STM2986	66.99	STM1862	100
1847696	atgagcgaag +	STM1751	100	STM2799	68	STM1751	100

1258090 atgcaaactg-	STM1173	100 STM2513	61.538 STM1173	100
2168620 atgcttatatc-	STM2087	100 STM0724	60.952 STM2087	100
3997605 atggcaagtt-	STM3796	100 STM3901	74 STM3796	100
4074090 atggcaatga-	STM3864	100 STM2406	60.55 STM3864	100
2782050 atgatgacaa+	STM2641	100 STM0734	68 STM2641	100
285003 atgagcagct-	STM0243	100 STM2644	61.765 STM0243	100
109236 atgcagactg+	STM0094	100 STM4220	64.762 STM0094	100
2493713 atggacaatt-	STM2382	100 STM4269	71.287 STM2382	100
1423511 atgattgcttc+	STM1344	100 STM0426	63.366 STM1344	100
1427433 atggataatg-	STM1348	100 STM0173	62.857 STM1348	100
1090872 atgatgaagc-	STM0999	100 STM2267	78 STM0999	100
3731410 atgaaaccgc-	STM3562	100	STM3562	100
1493245 atggtaaga+	STM1412	100 STM3133	61.386 STM1412	100
2355729 atggcaaatc-	STM2257	100 STM0692	52.475 STM2257	100
319164 atgtctatga+	STM0279	100 STM0276	99 STM0279	100
4812166 atgtctgctttt-	STM4556	100 STM0231	67 STM4556	100
3832653 ttgaccacgc-	STM3644	100 STM3822	72 STM3644	100
3428100 gtgaaagaa+	STM3257	100 STM1698	63.366 STM3257	100
3449137 atgaagcctt-	STM3281	100	STM3281	100
2530109 atgaaaagai+	STM2414	100 STM2979	63 STM2414	100
2654857 gtggaaattta-	STM2521	100 STM2522	90 STM2521	89.22
571942 atgggattgc+	STM0510	100 STM0245	76 STM0510	100
668945 atggctaacc-	STM0606	100 STM0634	64 STM0606	100
2751921 atgggattgtt-	STM2603	100 STM2816	66 STM2603	100
4832429 atgacaacat-	STM4576	100 STM2350	62.963 STM4576	100
3855409 atgagccagc-	STM3667	100 STM4187	58.095 STM3667	100
3780070 atgcaggtaa-	STM3606	100 STM1142	63 STM3606	100
3775248 atgatcgagc-	STM3602	100 STM0789	59 STM3602	100
3444037 atggggcgta-	STM3277	100 STM0312	74 STM3277	100
4702958 atggtaagat-	STM4457	100 STM3334	51.456 STM4457	100
1463083 atgaaaaaa-	STM1379	100 STM2068	64 STM1379	100
4536027 atgttaaagc-	STM4293	100 STM3635	61 STM4293	100
1254699 gtgagaacat+	STM1169	100 STM0820	65.714 STM1169	100
2568612 atgaaactaa-	STM2458	100 STM3200	62.376 STM2458	100
4238648 atgattgcatt+	STM4028	100 STM2803	64 STM4028	100
695827 atgagtaaac-	STM0633	100 STM4532	53.465 STM0633	100
1499654 atgaatgattc+	STM1420	100 STM1980	66 STM1420	100
2113801 atggcggcac-	STM2035	100	STM2035	100
3894939 atgccgtgtg-	STM3699	100 STM2913	61.538 STM3699	100
877112 atggctaaat-	STM0811	100 STM1802	63.81 STM0811	100
848198 atgctggagc+	STM0783	100 STM0891	71 STM0783	100
1461338 atgaaaaag-	STM1378	100 STM1888	79 STM1378	100
2462907 atgatgtcag-	STM2351	100 STM1951	82 STM2351	100
133738 atgagccagc-	STM0113	100	STM0113	100
245919 atgaaaaaa+	STM0209	100 STM3348	88 STM0209	100
508377 gtgaataaat+	STM0451	100 STM4170	76 STM0451	100
3581147 atgaaaattal+	STM3409	100 STM1801	62.136 STM3409	100
3024660 atgaatatgg-	STM2881	100 STM1196	55.882 STM2881	100
608660 atgaagaag+	STM0546	100 STM0023	77 STM0546	100
795817 atgccgattct-	STM0729	100 STM2253	64.151 STM0729	100
807946 atgtccgtttta+	STM0739	100 STM4416	64.486 STM0739	100
4391164 gtgatacgcg+	STM4174	100 STM1691	79 STM4174	100

3763933	gtgcaaatct-	STM3593	100	STM2565	62.5	STM3593	100
2119622	atgagatcga+	STM2040	100	STM3638	70	STM2040	100
3027786	atgcttaatatt-	STM2883	100	STM0498	64.356	STM2883	100
2431897	atgagttggai-	STM2322	100	STM2850	61.765	STM2322	100
3531967	atgggcatttt-	STM3364	100	STM1441	62.376	STM3364	100
4478489	atggaagac+	STM4257	100	STM4258	100	STM4258	60.09
2811465	atgggttgctga-	STM2669	100	STM0154	63.725	STM2669	100
1229301	atgcgtgtaa-	STM1140	100	STM0041	53.465	STM1140	100
4235721	atggttcgatt+	STM4024	100	STM1333	66.019	STM4024	100
4386522	atgttacaaa+	STM4169	100	STM2791	60.377	STM4169	100
2992578	atgagcgaar-	STM2846	100	STM2272	60.396	STM2846	100
4227191	atgtctaata-	STM4017	100	STM4018	84	STM4017	100
735911	atgactaaaa-	STM0670	100	PSLT048	62	STM0670	100
514130	atgaggctac-	STM0456	100	STM0109	67.327	STM0456	100
4517540	atggcaagg+	STM4277	100	STM0646	62.037	STM4277	100
1763182	gtggtttttcta-	STM1669	100	STM2517	63.725	STM1669	100
3554610	atgccatgga+	STM3383	100	STM3261	64.706	STM3383	100
3140856	atgaaaggai-	STM2988	100	STM1303	60	STM2988	100
3059451	atgacgatac-	STM2916	100	STM2974	50	STM2916	100
4269749	atgataggaa-	STM4058	100	STM2130	64	STM4058	100
937502	atgaaacgr-	STM0864	100	STM3794	70	STM0864	100
4150867	atgaacgac-	STM3943	100	STM2402	65.138	STM3943	100
4113837	atgcctaagt+	STM3904	100	STM3531	68	STM3904	100
86651	atggattcaa-	STM0073	100	STM1356	73	STM0073	100
4110879	atgcaacatc+	STM3902	100	STM2982	59.048	STM3902	100
2658405	atgaatactg-	STM2524	100	STM1491	63.462	STM2524	99.7
1912794	atgtcaaca+	STM1814	100			STM1814	95.93
1826913	atgaattatac+	STM1730	100			STM1730	100
3126316	atggaacgai-	STM2974	100	STM4285	65.455	STM2974	100
3076596	atgtttccgc+	STM2936	100	STM3899	88	STM2936	100
4168672	gtggcgctac+	STM3963	100	STM3964	100	STM3963	100
4146005	atgacggtaa-	STM3938	100			STM3938	100
4362400	atgagtgcca+	STM4147	100	STM1256	63.889	STM4147	100
1924743	gtgattagcct+	STM1826	100	STM2971	87	STM1826	95.99
1870353	atgacacatg+	STM1771	100	STM4189	62.5	STM1771	100
1880518	gtgatgccttc+	STM1781	100	STM2913	86	STM1781	100
1931218	gtgagcgaar+	STM1832	100	STM0574	67	STM1832	100
1969541	atgatgctgai-	STM1874	100	STM2497	66.667	STM1874	100
1996883	atgcgtacag-	STM1901	100	STM3040	69	STM1901	100
580037	atgttacgttc+	STM0518	100	STM2915	62.376	STM0518	100
602360	atgcctaccg-	STM0540	100	STM3737	85	STM0540	100
623873	atgaataaga-	STM0567	100			STM0567	100
1672142	atgaaaacaa+	STM1584	100	STM0568	69.307	STM1584	100
1707358	atgagccaar+	STM1618	100	STM1117	68.932	STM1618	99.25
1638135	atgacaaca-	STM1558	100	STM3537	74	STM1558	100
1903987	atgaggttgt-	STM1803	100	STM3855	61.386	STM1803	100
1718791	atgaaatcac-	STM1627	100	STM1567	66	STM1627	100
1730353	atgggcaata-	STM1639	100	STM1253	65	STM1639	100
1760250	atggctaaaa-	STM1667	100	STM0370	89	STM1667	100
1798524	atgatgaaac+	STM1703	100	STM3388	71	STM1703	100
690337	atgacagaar+	STM0626	100	STM0052	67	STM0626	100
1073157	atgattgcgc+	STM0985	100	STM3695	72	STM0985	100

1045084	atgctcgatcc+	STM0963	100	STM3094	63.551	STM0963	100
3259814	atgcatcacæ-	STM3098	100			STM3098	100
516154	atgatgagtaç-	STM0458	100	STM2162	63.725	STM0458	100
3771035	atgaaaattaç-	STM3598	100	STM3106	72	STM3598	100
3207898	atggcttttatc+	STM3048	100	STM2099	60	STM3048	100
3874791	atgaaactca-	STM3684	100	STM0652	65.686	STM3684	100
3952770	atggcagacæ+	STM3755	100	STM2530	77.67	STM3755	100
3342803	atgaaattgaç+	STM3178	100	STM4291	77	STM3178	100
2824925	atgttgcgccæ+	STM2684	100	STM4544	60.784	STM2684	100
3206421	gtggctctgtg-	STM3046	100	STM3618	61.682	STM3046	100
3282325	gtgaaaaaaç-	STM3122	100	STM1032	53.398	STM3122	100
3752958	atgcbgcat-	STM3585	100	STM2253	63.81	STM3585	100
3806235	atgaggacæ+	STM3622	100	STM1885	64.078	STM3622	100
3942643	atgccgtaa+	STM3747	100	STM2497	79.412	STM3747	100
2814716	atgaataagc+	STM2672	100	STM1283	83	STM2672	100
2851941	gtgcaaattgç-	STM2702	100	STM2772	78	STM2702	100
3252847	atggcaaaaç+	STM3090	100	STM1907	64.762	STM3090	100
500075	atgtcaagtcæ-	STM0444	100			STM0444	100
3767435	atgaaactac-	STM3595	100	STM0325	65	STM3595	100
2218647	atgcaggatt+	STM2127	100	STM2128	73	STM2127	100
2268763	atgaccaaçç-	STM2171	100	STM1383	62	STM2171	100
3582769	atgtggttact-	STM3413	100	STM2223	61.111	STM3413	100
1021672	atgacggcat+	STM0942	100	STM0891	76	STM0942	100
4629639	atgcaaaaçç+	STM4388	100	STM3677	78	STM4388	100
4723454	gtgataatcat+	STM4479	100	STM3024	66	STM4479	100
1006517	atgaaagcçç+	STM0931	100	STM2308	63.725	STM0931	100
4611026	gtgcagttaar+	STM4367	100	STM2768	61.682	STM4367	100
3413411	atgaataactct-	STM3245	100	STM2281	55	STM3245	100
3310490	atgagccagç-	STM3147	100	STM1538	73	STM3147	100
2980213	atgagcgtga+	STM2834	100	STM4363	64.078	STM2834	100
2989977	atggcgatag-	STM2842	100	STM3169	65.686	STM2842	100
401324	atgaacatcg+	STM0354	100	STM0499	59	STM0354	100
2993884	atgtttacctttæ-	STM2848	100	STM2321	58	STM2848	100
2326717	atgtttactatc+	STM2224	100	STM0488	59.223	STM2224	100
2194302	atgcaggatc-	STM2110	100	STM3691	57.426	STM2110	100
2298542	atgtttaggttt-	STM2199	100	STM2777	71	STM2199	100
1871261	atgaaacaaç-	STM1772	100	STM3199	68.627	STM1772	100
3256919	atgccctgga+	STM3094	100	STM0963	64.706	STM3094	100
783731	atgcagacgt+	STM0718	100	STM2144	68.224	STM0718	100
866454	atgagtaaac+	STM0798	100	STM1385	51	STM0798	100
929883	atgaaaagta+	STM0857	100	STM1356	57	STM0857	100
3487931	atgaccgtaa+	STM3324	100	STM3541	56.311	STM3324	100
3960519	atgtctacacc+	STM3761	100	STM0950	85	STM3761	100
906628	gtgttagtttcc+	STM0838	100	STM3459	71.287	STM0838	100
3516784	atgaaaaaaç+	STM3348	100	STM0209	88	STM3348	100
3430271	atgtttagcga+	STM3260	100	STM1614	70.192	STM3260	100
3356988	atgcatctaa+	STM3193	100			STM3193	100
2365328	atgaaaatga-	STM2266	100	STM2830	61.818	STM2266	100
813431	atgaataagtç+	STM0744	100	STM2440	75	STM0744	100
3470087	atgcbgattttcc+	STM3300	100	STM2339	61.321	STM3300	100
3397103	atgtcgaaag+	STM3229	100	STM2311	66	STM3229	100
3836651	atgtccggttaç+	STM3649	100	STM1837	81	STM3649	100

3233722 atgactgtatc +	STM3071	100		STM3071	100
797583 gtgtcaccag +	STM0731	100	STM0898	60.185 STM0731	100
854772 atgtattcatc +	STM0789	100	STM0145	79.412 STM0789	100
812252 atgatcgatta +	STM0741	100	STM1793	83 STM0741	100
3922462 atgtcccag -	STM3728	100	STM0096	57.547 STM3728	100
3016056 atgtcgattgc -	STM2872	100	STM1651	54.369 STM2872	100
1493671 atggattggg +	STM1413	100		STM1413	100
1921088 atgtttgcagg -	STM1823	100	STM4238	57.282 STM1823	100
622046 atgttaaaagi +	STM0565	100	STM2368	60.194 STM0565	100
4376871 atgggttcgca +	STM4158	100		STM4158	100
1475087 atgaataaca -	STM1389	100	STM3524	57.843 STM1389	100
3666703 atggcttcatt +	STM3507	100	STM4491	76.699 STM3507	100
4362947 atgtctgaag +	STM4148	100		STM4148	100
4106393 gtggagagca -	STM3897	100	STM1625	72.549 STM3897	100
4186830 atgaaatttaa +	STM3980	100	STM3191	63 STM3980	100
	STM2712	100	STM2713	100 STM2712	85.71
1678860 atgacgattcc +	STM1590	100	STM4558	60.377 STM1590	99.41
119579 atgacgatttt -	STM0102	100	STM0145	61.386 STM0102	100
1539082 gcattaggcg -	STM1465	100	STM3225	63.366 STM1465	93.22
1333717 atgttcctcgc +	STM1248	100		STM1248	100
3024368 atgaaaatca -	STM2880	100		STM2880	100
2945858 atgggtttctg -	STM2796	100	STM2080	60.784 STM2796	100
133912 atgtcacatat -	STM0114	100	STM2915	34.483 STM0114	100
2849212 gtggcggata -	STM2698	100		STM2698	100
774124 gtgagtgcag -	STM0707	100		STM0707	100
1605873 atgccttctgt +	STM1528	100	STM1529	100 STM1529	100
3997810 atgaacccttc -	STM3797	100	STM0994	52.525 STM3797	100
3458265 atgattacag -	STM3288	100		STM3288	100
3463744 atgagtaatc -	STM3294	100	STM1484	64.423 STM3294	100
1112306 atgaatcttga +	STM1022	100	STM1676	60.396 STM1022	100
1112690 atgcctgtgac +	STM1023	100		STM1023	100
1026770 atgcaggccc -	STM0947	100	STM0242	60.377 STM0947	100
812798 atgaagtatal +	STM0743	100	STM3672	62.617 STM0743	100
P60599 atgtataaatc -	PSLT072	100	PSLT072	58 PSLT072	100
P93300 atgacgatgg +	PSLT110	100	STM1170	64.423 PSLT110	100
P61394 atggctaaag +	PSLT073	100		PSLT073	100
P07324 gtgacgatga -	PSLT011	100	STM3997	67 PSLT011	100
P05549 atgaaaaaa -	PSLT009	100	STM1246	73 PSLT009	100
P62273 atgtgtccgac +	PSLT075	100	STM0557	62 PSLT075	100
1958203 atgaaaatcg +	STM1861	100	STM1871	74 STM1861	100
	STM0007	100	STM2473	71 STM0007	100
2078765 atgaacaga +	STM1995	100	STM1572	85 STM1995	100
	STM2097	100	STM3922	79 STM2097	100
	STM2204	100	STM3858	76 STM2204	100
2311296 ctgccctcag +	STM2211	100	STM3576	62.037 STM2211	100
	STM3152	100	STM0998	74.757 STM3152	100
	STM3216	100	STM3152	73 STM3216	100
	STM3241	100	STM0973	79 STM3241	100
	STM3348	100	STM0209	71 STM3348	100
1132118 atgattaacg +	STM1046	100	STM0922	78 STM1046	100
	STM2563	58.333		STM2563	7.67

STM1861	80	STM1871	77	STM1871	56.3
PSLT075	61.765	STM2085	49	PSLT075	42.4
STM2698	89			STM2698	89.1
STM0150	59.813	STM2599	59.434	STM2599	16.44
STM1114	46.226			STM1114	10.24
STM3968	63.462	STM0995	63.366	STM3968	31.93
STM3719	47.525			STM3719	5.24
STM2709	88	STM3986	57.843	STM2709	82.2
STM2939	67.593	STM0624	55.34	STM2939	31.35
STM0604	60.194	STM3515	51.961	STM0604	10.99
STM2723	95	STM0149	60.396	STM2723	76.99
STM2707	93	STM4201	50	STM2707	87.1
STM2592	62.5	STM0024	61.165	STM0024	19.26
STM1228	58.333	STM4433	53	STM1228	54.07
STM2081	50.485			STM2081	11.26
STM2696	88			STM2696	76.1
STM2943	74.51	STM2163	61	STM2943	21.84
STM2722	100	STM2722	62.617	STM2722	95.2
STM2006	83	STM2760	76	STM2760	59.49
STM0778	65.385	STM0243	62.617	STM0778	13.13
STM2373	60.194			STM2373	17.37
STM1693	67	STM1045	63.462	STM1045	5.58
STM4525	99			STM4525	89.7
STM2729	100	STM4081	65.421	STM2729	81.46
STM0151	61.111			STM0151	4.12
STM2749	71	STM3306	66	STM2749	59.42

4533709 atgcgttttcaç-	STM4291	100	STM3178	77	STM4291	100
4051053 atggcactttc+	STM3844	100	STM2740	62.376	STM3844	100
4083787 atgttttatcag-	STM3874	100	STM1216	69	STM3874	100
3485843 atgaagcaaç+	STM3320	100			STM3320	100
3345854 atgacgcaaç-	STM3181	100	STM3835	80	STM3181	100
3473089 atgtacgcgg-	STM3304	100	STM2432	61.386	STM3304	100
73837 atgaacgtga+	STM0063	100	STM0619	68	STM0063	100
157852 atgatcaaac+	STM0134	100	STM2776	59.406	STM0134	100
196330 atgaagacgt-	STM0167	100	STM1452	59.406	STM0167	100
216374 atgacaggçç-	STM0185	100	STM2222	62.5	STM0185	100
260983 ttgctgaagta+	STM0222	100	STM2274	76.238	STM0222	100
1584492 atgaaaagç+	STM1506	100	STM1041	65.094	STM1506	100
3539740 gtgaggcgat-	STM3369	100	STM1300	64.078	STM3369	100
694444 atgttcgittgç+	STM0631	100	STM0681	61.682	STM0631	100
718905 atggataaag+	STM0655	100	STM0657	81	STM0655	100
750940 atgcgtacgtt+	STM0687	100	STM2039	62.5	STM0687	100
781113 atgaacattgç+	STM0714	100	STM2249	62.617	STM0714	100

2511694 atgttcggttct -	STM2398	100	STM2398	100
2183939 atgaaattatt:-	STM2101	100 STM1956	60.194 STM2101	100
4831100 atgaaaaaaal-	STM4575	100 STM4574	65 STM4575	100
322415 atgacagacæ +	STM0282	100 PSLT082	69.307 STM0282	100
2897420 atgaaaagaa-	STM2758	100 STM1203	73 STM2758	100
2927854 atggagcgttr-	STM2780	100 STM1088	61.765 STM2780	100
1130586 atgaaataca -	STM1044	100 STM0924	70.588 STM1044	100
313833 atgaaaactc +	STM0272	100 STM2660	73.267 STM0272	100
2891090 atgaacacgç +	STM2752	100 STM2833	73.267 STM2752	100
378934 atgaaattgai +	STM0335	100 PSLT101	62.136 STM0335	100
1177325 atgccaataa -	STM1088	100 STM2780	62 STM1088	100
3582390 atgtatcgcat -	STM3412	100 STM0499	58.824 STM3412	100
3615337 atgcaagcgc -	STM3465	100	STM3465	100
1171957 atgactgaatr-	STM1080	100 STM2385	61 STM1080	100
1581270 atgacaagtg -	STM1502	100 STM3359	62.857 STM1502	100
3606905 atgaaagtag -	STM3455	100 STM3791	59.223 STM3455	100
3646532 atggccttttaa:-	STM3492	100 STM1716	65.138 STM3492	100
1325635 atggaaaagc: +	STM1238	100 STM3972	64 STM1238	100
1356982 atgattggtctç +	STM1279	100 STM3359	63.366 STM1279	100
3609016 atggaaggtgç -	STM3457	100 STM0086	79.208 STM3457	100
1293632 gtgggcccacç +	STM1209	100 STM3638	63.208 STM1209	100
1335983 atggcactca +	STM1251	100 STM4492	62.5 STM1251	100
3728528 atgttatgctg -	STM3559	100 STM0309	62.136 STM3559	100
4255909 atgcaaaaata -	STM4045	100 STM3801	59 STM4045	100
4430534 atgtatgccgt -	STM4210	100 STM1651	62.745 STM4210	100
4287071 atgatgaatrç +	STM4076	100 STM3883	63 STM4076	100
4322444 atgaaattcgr-	STM4107	100 STM0992	63.725 STM4107	100
3006186 atgcctggtac:-	STM2860	100 STM2168	75.238 STM2860	100
3061627 atgacaacaçç -	STM2918	100 STM3248	63 STM2918	100
2488524 atgccaacta -	STM2377	100 STM2403	78 STM2377	100
2528747 atgccggata -	STM2410	100 STM2503	70 STM2410	100
971582 atgctgcgcc +	STM0900	100 STM4526	60.748 STM0900	100
2601094 atgtctgatatr-	STM2485	100	STM2485	100
1035114 atgaataaaa -	STM0957	100 STM1226	66 STM0957	100
2737098 atgccagtag -	STM0926	100 STM1049	100 STM2588	100
4291741 atgaagccaçç -	STM4082	100	STM4082	100
4446029 atgaaaaaaa: +	STM4225	100 STM3222	61.538 STM4225	100
3057045 atgacaagttt -	STM2913	100 STM3512	70 STM2913	100
3079457 gtgacgttcgt -	STM2938	100 STM0712	89 STM2938	100
953070 ttgggatttata +	STM0881	100 STM0056	53.465 STM0881	84.04
974219 atgaaactgg +	STM0903	100 STM1022	58 STM0903	100
992760 atgaagcagç +	STM0920	100 STM1043	74 STM0920	100
2659863 atgtctgaacç -	STM2525	100	STM2525	100
1446239 atggtaaatgl -	STM1364	100 STM0790	60.396 STM1364	100
2031611 gtgaaaaaac: +	STM1937	100 STM3279	64 STM1937	100
2076919 ttgagtaccaçç -	STM1994	100 STM0203	52.381 STM1994	100
4676709 atggcggaaçç +	STM4432	100 STM0928	62.136 STM4432	100
4738761 atgcaaaccç -	STM4491	100 STM0153	64.356 STM4491	100
4771955 atgaataaaa -	STM4516	100	STM4516	100
4755834 atgaatttatç -	STM4501	100 STM4085	62.136 STM4501	100
2479604 atgagctgga -	STM2366	100	STM2366	100
1315984 atgttacgcat +	STM1228	100	STM1228	100

1415376 atggctcgcg +	STM1336	100 STM0282	63.107 STM1336	100
2547169 atgggtttgttc +	STM2433	100 STM0685	71 STM2433	100
1356087 atgacgacaç -	STM1278	100 STM2689	64.078 STM1278	100
1169739 atgaaaaccç -	STM1077	100 PSLT068	63.366 STM1077	100
3011722 atgagaaatç -	STM2866	100 STM0732	51.887 STM2866	100
2369977 atgagtcagtr +	STM2269	100 STM1082	62.376 STM2269	100
2038250 gtgagtgaaz -	STM1946	100 STM0984	55.769 STM1946	100
2090402 atgaaatttaa +	STM2008	100 STM3577	59.804 STM2008	100
2363131 atgctggatct -	STM2264	100 STM0793	59.804 STM2264	100
1396299 atgagccagç +	STM1316	100	STM1316	100
1441286 atggatgttac -	STM1359	100 STM3859	57.843 STM1359	100
1525681 atgaagaata +	STM1450	100 STM2435	59.406 STM1450	100
1559832 atggcaaaaç -	STM1481	100 STM3582	78.218 STM1481	100
4454518 atgaaaatga +	STM4232	100 STM1179	67 STM4232	100
4026372 atgctgcgcgç -	STM3825	100 STM0060	55.14 STM3825	100
4006746 atgccggata -	STM3804	100 STM3263	63.81 STM3804	100
255022 atggcaactg +	STM0216	100 STM4082	66.667 STM0216	100
424652 atgacagacç -	STM0372	100 STM3286	55.34 STM0372	100
155622 atgatcaagg +	STM0132	100	STM0132	100
2439039 atggattatac -	STM2327	100 STM2847	72.115 STM2327	100
1818289 atgggagccç -	STM1721	100 STM2594	63.107 STM1721	100
4043619 atgaaatttac -	STM3837	100 STM0208	64.486 STM3837	100
1479598 atgaatttgct -	STM1392	100 STM3826	64.356 STM1392	100
1550809 atgaaaagaç -	STM1473	100 STM1995	88 STM1473	100
606017 atgctgaataç +	STM0545	100 STM0022	77 STM0545	100
4057105 atggcgactc +	STM3849	100 STM4445	67.961 STM3849	100
403142 atgtacaccç +	STM0356	100 STM3338	70 STM0356	100
2785154 atggatctgcç -	STM2644	100 STM0243	62.963 STM2644	100
3380805 atgatgcaaa +	STM3215	100 STM0647	86 STM3215	100
3688130 atgttgatgati -	STM3524	100 STM3937	63.551 STM3524	100
4374601 atgctggataç +	STM4155	100 STM2086	62.5 STM4155	100
1143252 atgttaagacç -	STM1055	100 STM0031	63 STM1055	100
2770870 atgaaaaattr +	STM1010	100 STM2631	100 STM2631	100
654927 atgaatcgac +	STM0593	100 STM2179	62.376 STM0593	100
4623701 atgactgaag -	STM4381	100 STM1661	62.617 STM4381	100
4721959 atggagttcaç -	STM4477	100 STM2536	70.297 STM4477	100
2789826 atgaccaata +	STM2650	100 STM2381	57 STM2650	100
3368302 atggctcagg -	STM3202	100	STM3202	100
3411365 atgagtactar -	STM3243	100 STM2970	72 STM3243	100
3418139 atgaataacg -	STM3249	100 STM2289	66 STM3249	100
2396843 atgaacgcat -	STM2289	100 STM1106	72.277 STM2289	100
2610585 atgtcatcctg -	STM2496	100 STM0285	52.885 STM2496	100
543815 atgcaaaccç +	STM0486	100 STM3178	63.366 STM0486	100
527952 atgagtgcgç -	STM0472	100 STM0226	61 STM0472	100
634283 atgaacgagç -	STM0573	100 STM0588	65 STM0573	100
4217008 atgtccgctgç -	STM4007	100 STM3342	61.765 STM4007	100
914684 atgatctcaa -	STM0844	100 STM4115	69 STM0844	100
807077 atgaacttacç +	STM0738	100 STM2523	60.577 STM0738	100
4215324 atggcaagcç -	STM4006	100 STM4589	50.495 STM4006	100
2465273 atgaaaaaaç -	STM2354	100 STM2355	85 STM2354	100
139341 gtgaaactgg +	STM0118	100 STM3178	66.019 STM0118	100
757658 atggcaatca -	STM0694	100 STM3045	64.078 STM0694	100

801221 atgatgaaac +	STM0735	100	STM4342	73	STM0735	100
267783 gtgattgataa +	STM0228	100	STM0226	59.223	STM0228	100
2816028 gtgtttattggc -	STM2674	100	STM3807	56.863	STM2674	100
4604883 atggctaagg +	STM4361	100			STM4361	100
1875710 atgaccctttt -	STM1777	100			STM1777	100
2614748 atgaatattgt +	STM2500	100	STM1756	59.406	STM2500	100
916952 atgttcattgga -	STM0846	100	STM1305	59.259	STM0846	100
1328977 atgaataaaa -	STM1240	100	STM0482	59.406	STM1240	100
4273292 atgattaaga +	STM4062	100	STM1064	70.297	STM4062	100
728749 atgtcaatag -	STM0664	100	STM0663	69	STM0664	100
3573036 atgtctgacac +	STM3399	100	STM2114	76	STM3399	100
1691213 atggctatga -	STM1600	100	STM0762	51.485	STM1600	100
2775284 atgcccctaa +	STM1007	100	STM2634	100	STM2634	100
2124925 atgaacggc +	STM2048	100	STM2125	64.762	STM2048	100
4528760 atgttcgcagc -	STM4286	100	STM3583	51.887	STM4286	100
2039591 atgagtacgc +	STM1949	100	STM0160	53.398	STM1949	100
	STM4261	100	STM0351	53.333	STM4261	100
3525940 gtgcagaag -	STM3357	100	STM2794	69	STM3357	100
10805 atgaacgtca -	STM0010	100	STM2255	63.81	STM0010	100
3730 atggtgaaag +	STM0003	100	STM1588	63.107	STM0003	100
1409764 atggatacac +	STM1331	100	STM1005	61.386	STM1331	100
1968238 ctgataacag -	STM1872	100	STM1392	47.17	STM1872	100
3435369 atggtaacct +	STM3264	100	STM3610	66.364	STM3264	99.85
2585793 atgaaaataa -	STM2475	100	STM2204	63.551	STM2475	100
986134 atgattcactc -	STM0913	100	STM1034	74	STM0913	90.32
2284948 atgagtgcggt -	STM2188	100	STM3883	59.804	STM2188	100
629163 atgacccaa +	STM0570	100			STM0570	100
225927 atggcgcgctc +	STM0191	100	STM0364	88	STM0191	100
	STM4261	100	STM2353	60	STM4261	100
2436485 atgcacgag -	STM2325	100	STM3341	63.81	STM2325	100
3165359 atgaaaaagi +	STM3007	100	STM2983	67	STM3007	100
4193634 atggacagtt +	STM3985	100	STM4495	57.843	STM3985	100
4165749 atgaccttga -	STM3960	100	STM1270	61.765	STM3960	100
4143121 atgatgctaa -	STM3935	100	STM0910	65.094	STM3935	100
4364241 atggctaaac +	STM4150	100			STM4150	100
4131679 atgagttttac +	STM3921	100	STM0493	63.208	STM3921	100
4357700 atgaccact +	STM4137	100	STM0889	59.633	STM4137	100
2061279 atgaccacgc +	STM1972	100	STM1415	67.327	STM1972	100
2544843 atgtccagca +	STM2431	100	STM1914	64	STM2431	100
122485 atggctgaaa +	STM0104	100			STM0104	100
3098662 atgtccaaaa -	STM2952	100	STM4285	57.426	STM2952	100
4293123 atggccgatt -	STM4084	100	STM1048	63.462	STM4084	100
2155388 atgattattcc +	STM2076	100	STM2511	61.765	STM2076	100
4136045 atgtcgcttgc +	STM3926	100	STM3239	65.049	STM3926	100
4384104 atggatcgtat +	STM4166	100	STM0255	63.889	STM4166	100
434637 atggcgaaat -	STM0380	100	STM0875	68	STM0380	100
2019193 gtgagcatgg -	STM1921	100	STM4304	63.725	STM1921	100
1896782 atgatacccc +	STM1796	100	STM3603	78	STM1796	100
1714602 atggcgaac -	STM1624	100			STM1624	100
1753405 atgaaccttg -	STM1658	100	STM3772	88	STM1658	100
958666 atgaaaaagi -	STM0887	100	STM0890	76	STM0887	100
683302 atgatgccga -	STM0619	100	STM0063	68	STM0619	100

1077270 atgctttttacg -	STM0990	100	STM0990	100
3967578 atgaaaaaaa:-	STM3766	100 STM3508	84 STM3766	100
664764 atgaaccac:-	STM0602	100 STM4108	67.961 STM0602	100
1816679 atgagcga:-	STM1719	100 STM2222	61 STM1719	100
1653489 atggacgtca -	STM1570	100 STM4037	93 STM1570	100
1920428 gtgacggac:-	STM1821	100 STM2323	62.136 STM1821	100
1948497 atgcacatga +	STM1849	100 STM1703	68.519 STM1849	100
1967008 gtggaacag: +	STM1870	100 STM1009	75.728 STM1870	100
1993226 atgaaaaaa: +	STM1897	100 PSLT110	68.317 STM1897	100
540089 atgcaacgta +	STM0482	100 STM0410	61.905 STM0482	100
586676 atgttccctgtt +	STM0524	100 STM2851	60.577 STM0524	100
616456 atgagaaga:-	STM0557	100 STM4204	66.667 STM0557	100
1658993 atgagttacct +	STM1575	100 STM0692	63.303 STM1575	100
3278150 atgatgaatgl -	STM3118	100 STM2238	65.049 STM3118	100
2396034 atgccggatg -	STM2288	100 STM2293	96 STM2288	99.44
2921226 atgcccgcg: +	STM2774	100 STM2219	68.627 STM2774	100
3841839 atgtctgaga:-	STM3655	100 STM3301	64.078 STM3655	100
815840 gtgtcaagg +	STM0747	100 STM0450	67.647 STM0747	100
4326954 ctacggggcg: +	STM4110	100 STM4111	100 STM4110	100
3340182 atgaatgacc -	STM3175	100	STM3175	99.66
3173957 atgtcattgcc -	STM3013	100	STM3013	100
3240439 atgagcacct -	STM3078	100	STM3078	100
493272 gtggatattcc +	STM0438	100 STM0437	67 STM0438	100
2990668 atgaaccgttt -	STM2843	100 STM3666	72 STM2843	100
3830351 atgattcgca: +	STM3643	100 STM3274	83.168 STM3643	100
3971263 atggatacctt -	STM3770	100 STM2511	62.264 STM3770	100
3156811 gtgaatcggg -	STM2998	100 STM2915	60.577 STM2998	100
3193055 atgaaaagc:-	STM3030	100 STM0339	58.559 STM3030	100
3276040 gtggtaattgg +	STM3115	100 STM2179	73.077 STM3115	100
3308300 atgtctgaaa:-	STM3145	100	STM3145	100
2863892 atgacagtga -	STM2721	100	STM2721	100
2258909 atgattgaattl -	STM2163	100 STM1491	77 STM2163	100
1917693 atggcggttc:-	STM1819	100 STM1515	52.83 STM1819	100
3590699 atggcgaaa:-	STM3428	100 STM3842	65.714 STM3428	100
3720417 atgaaagggttl +	STM3550	100 STM1041	63 STM3550	100
3466624 atggcgaaa:-	STM3296	100 STM4543	51 STM3296	100
3373827 atgctgtact -	STM3208	100 STM0214	66.337 STM3208	100
3718361 atgaacaata +	STM3548	100 STM1381	77 STM3548	100
3477581 atgtttaaaccg -	STM3310	100 STM0998	59.048 STM3310	100
4761825 atgaaatcaa +	STM4507	100 STM0994	64.762 STM4507	100
4569085 atggctcaac -	STM4323	100 STM2817	62.136 STM4323	100
428810 atgttatctta: +	STM0374	100	STM0374	100
2238543 atgaaagca: +	STM2143	100 STM2323	60.784 STM2143	100
2981439 atggtttccac +	STM2836	100 STM2316	60.952 STM2836	100
2251772 atgactcaag +	STM2155	100 STM0537	68 STM2155	96.17
2323673 gtgaccacc -	STM2221	100 STM3847	79 STM2221	100
2345217 atgcctacaa +	STM2244	100 STM0926	97 STM0926	42.1
2266472 atgctgaaatt -	STM2168	100	STM2168	100
299867 atgacaacg: +	STM0259	100 STM0600	61.682 STM0259	100
1490020 atgtttgcggg +	STM1407	100 STM0925	56.731 STM1407	100
798722 atggtaagca +	STM0733	100 STM4323	62.037 STM0733	100
876147 atgaacctga +	STM0810	100 STM0603	31 STM0810	100

2819520 atgcccgtttt +	STM2678	100		STM2678	91.45
3439048 atgctgatgg +	STM3271	100	STM2993	65.741 STM3271	87.6
3396243 atgcttaaacc +	STM3227	100		STM3227	100
923438 atgcgattattt +	STM0851	100	STM3628	74 STM0851	100
1471185 atgtggacgg -	STM1385	100	STM0612	67.961 STM1385	100
3399484 atgggacaac +	STM3233	100	STM2107	52.336 STM3233	100
3318065 atgcttcctga +	STM3155	100	STM4040	58.716 STM3155	100
3205955 atgaacatgg +	STM3045	100	STM0694	64 STM3045	90.16
824824 atgaattatca +	STM0760	100	STM1347	83 STM0760	100
1267129 atgtccagctt +	STM1183	100	STM3577	68 STM1183	100
2012272 atgatgcaac -	STM1915	100	STM4247	58 STM1915	100
3290456 atgagcgacc +	STM3129	100	STM1597	70 STM3129	100
1200516 atggcgaaa +	STM1113	100	STM0055	63 STM1113	100
817815 atgcaactga +	STM0749	100		STM0749	100
863103 atggcgacc +	STM0796	100	STM4429	84 STM0796	100
661092 atgatctgga +	STM0599	100	STM1366	72 STM0599	100
2677848 atgggactca -	STM2537	100		STM2537	100
2596760 atggcgaattt +	STM2481	100	STM0475	88 STM2481	100
2971136 atgctgattct -	STM2826	100	STM0152	60.377 STM2826	100
1124398 atgaccggac +	STM1037	100	STM2598	69 STM1037	100
4438335 atgcgcaact +	STM4219	100	STM1324	90 STM4219	100
3934051 atggcacgac +	STM3741	100	STM2513	60.377 STM3741	100
3878552 atgaaagca +	STM3686	100	STM2039	60.194 STM3686	98.71
4472639 atggcgctat -	STM4252	100	STM2468	61.765 STM4252	100
4429581 atgcgctacc -	STM4209	100		STM4209	100
2233451 atgaatgtca -	STM2139	100	STM3799	59.434 STM2139	94.92
2874411 atggctattga -	STM2733	100	STM0551	57.692 STM2733	100
3804419 atgtataaca -	STM3621	100		STM3621	100
314475 atggctatca +	STM0273	100	STM4538	87 STM0273	100
1431829 atgagtgttac -	STM1350	100	STM0596	67.327 STM1350	100
620112 atggatgcmc -	STM0563	100	STM0646	64.762 STM0563	99.64
1444663 atgatgaacg -	STM1362	100	STM4482	61.468 STM1362	100
1644668 atgacaatcc -	STM1563	100	STM4469	62 STM1563	100
52864 ttgcagcact +	STM0044	100	STM2458	47.525 STM0044	100
4033258 atgacagctc -	STM3829	100	STM2833	65.049 STM3829	100
4019996 atgaaaaaa -	STM3820	100		STM3820	100
116601 ttgaacgtcgc +	STM0099	100	STM3639	85 STM0099	100
1893187 atgtgtattta +	STM1794	100		STM1794	100
2681509 atggcttaca -	STM2542	100		STM2542	100
3436334 gtgctcgaaa +	STM3266	100	STM0310	62.5 STM3266	100
2755602 atggcaaca -	STM2607	100	STM3555	64.151 STM2607	100
947463 gtgaaaattg +	STM0875	100	STM0865	64.486 STM0875	100
1022023 atggaaacgc -	STM0943	100	STM1996	70 STM0943	100
1099813 atgagcaac -	STM1006	100	STM0894	65 STM1006	100
872887 atgcgcatga +	STM0805	100		STM0805	100
P67737 atgagcgatg +	PSLT085	100	STM2867	59.804 PSLT085	100
P16377 ttgccgatcac +	PSLT021	100	PSLT022	100 PSLT021	100
P74170 atgcacagg +	PSLT094	100	STM3488	65.741 PSLT094	100
P63324 atgtcgggag +	PSLT078	100	STM4412	63 PSLT078	100
P10940 gtgaataaga -	PSLT016	100	STM3027	68.317 PSLT016	100
P10233 atgatgagac -	PSLT015	100	STM2240	50 PSLT015	100
P54919 atggcagcac +	PSLT066	100	STM1049	61.165 PSLT066	100

	STM1951	100	STM0891	71	STM1951	100
	STM0061	100	STM0621	78	STM0061	100
	STM0209	100	STM3348	70	STM0209	100
294336 ctaagcgtac +	STM0252	100	STM2657	100	STM0252	100
337835 gtgcagcagc +	STM0292	100	STM0452	55.882	STM0292	100
	STM0979	100	STM3077	72	STM0979	100
	STM1031	100	STM0910	79	STM1031	100
	STM1033	100	STM0912	80	STM1033	100
	STM1040	100	STM2595	60.396	STM1040	100

	STM2941	61.165	STM1821	61.111	STM3462	13.51
	STM2736	85	STM0193	64.423	STM2736	80.2
	STM4155	61	STM2761	60.784	STM4155	8.75
	STM3259	33.663			STM3259	9.05

	STM3295	64.762	STM3668	60	STM3668	19.69
	STM1959	100	STM2771	100	STM2771	73.3
	STM1474	42.574	STM4261	35.294	STM1474	8.57
	STM2700	95			STM2700	89
	STM1289	61.538	STM0886	56.881	STM0886	14.86
	STM4219	63.208			STM4219	30.55
	STM4218	69			STM4218	31.55
	STM0339	41.414	STM1533	41.414	STM1533	41.01
	STM2951	42	STM3789	38	STM2951	22.23
	STM2941	75			STM2941	61.56
	STM4037	56.436	STM0074	55	STM0074	12.92
	STM4291	60.952	STM2141	40	STM4291	2.75
	STM2519	61.165	STM4551	60.952	STM2519	6.65
	STM4299	65.714	STM3042	63.107	STM4247	25.17
3880011 atgaaagaa +	STM3689	99	STM0322	57.944	STM3689	97.2
	STM3460	99	STM1463	60	STM3460	94.62
	STM1298	74	STM0786	60	STM1298	14.58
	STM1557	43.564			STM1557	16.07
	STM2761	61.111	STM0376	46.667	STM2761	18.47
	STM0333	53.774	STM3079	53	STM0333	14.83
	STM2760	59			STM2760	40.61
	STM3635	100	STM1749	62.264	STM3635	50.07
	STM3190	65.094	STM2068	59.223	STM3190	6.78
	STM1298	60.784	STM0547	53.398	STM1298	17.29
	STM1008	60.377	STM2633	60.377	STM1008	9.26

2ND_BEST%ID	(2) PRIMARY	(3) SECOND	(4) SINGLE GENE_ST	GENE_EN	GENE	Description	
		STY2176		2019614	2019928	fliE	flagellar_hc
STM0168	15.6	STY3349		3191970	3193382	sufI	SufI_protei
STM0713	11.62	STY2224		2058754	2059431	cbiQ	putative_cc
STM0492	18.76	STY0101		98592	100454	kefC	glutathione
STM2511	23.49	STY0163		167200	168243	guaC	GMP_redu
STM2252	7.88	STY0148		151371	152438	murG	UDP-N-ace
STM0651	61.57	STY0183		192388	193341	kdgT	2-keto-3-de
STM0281	15.39	STY0208		217806	218285	folK	2-amino-4-
STM2323	10.57	STY0238		249937	250731	map	methionine
STM0511	40.95	STY0274		285321	286352	abc	putative_Al
STM3744	13.27		STY1531	1486099	1486869		putative_A
STM1203	24.67	STY0723		721238	723190	nagE	pts_system
		STY0751		753589	754332		conserved_
STM3763	29.53	STY4796		4655766	4658474	mgtA	Mg(2+)_tra
STM4275	9.42	STY2237		2066412	2067551	cbiD	CbiD_prote
PSLT055	45.91	STY2206		2044752	2045171	umuD	UmuD_pro
STM1115	8.92	STY1010		1007350	1008552	pncB	nicotinate_
STM3373	4.49	STY3938		3802080	3803726	yidC	putative_m
		STY3911		3771246	3772787	atpA	ATP_synth
		STY0059		58943	60145		hypothetica
			STY0113	115278	117713		
STM0525	10.83	STY3514		3357600	3358880	codA	cytosine_di
STM1185	44.08	STY3550		3393449	3394918	rnG	ribonucleas
STM4477	34.52	STY1130		1095652	1096164	hpaC	4-hydroxyp
STM0557	10.3	STY1167		1129554	1130708		conserved_
STM4127	14.28	STY1206		1163401	1164048		conserved_
STM0760	21	STY4286		4161200	4161883		putative_cc
STM1469	10.35						
STM2677	13.69	STY4240		4105776	4107251	ftsY	cell_divisio
STM3647	16.23						
STM1057	3.24	STY4281		4150971	4153676	malT	MalT_regu
STM3514	29.07	STY4276		4144568	4147015	glgP	glycogen_p
STM3006	32.63	STY4238		4104795	4105067		putative_m
		STY4919		4778898	4780220	deoA	thymidine_
STM0977	7.09		STY4628	4494964	4496010		probable_c
STM4228	29.11	STY4255		4119439	4120326	ugpA	glycerol-3-p
STM2270	8.12	STY4900		4762682	4763407		conserved_
STM2131	46.94	STY4935		4795846	4796535	creB	putative_tv
STM3280	14.11	STY4644		4505609	4506241	cl	phage_rep
STM4386	19.41						

STM1063	15.23	STY2893	2775687	2776604	iroE	putative_e
STM3575	7.25	STY3766	3630256	3631380		hypothetica
STM2829	6.29	STY2980	2855409	2856377	hypE	hydrogena
STM1033	9.38	STY3052	2918049	2918810	surE	stationary- ζ
STM2957	23.04	STY0915	907526	908653	ybjF	hypothetica
STM0750	20.96					
STM3478	9.69	STY2727	2564354	2565232	dapA	dihydrodipi
STM0731	18.58					
STM3331	47.53					
STM0954	27.05					
STM0261	2.65	STY0984	978645	980909	ycal	putative_cc
STM0911	41.11					
STM1692	6.33	STY3793	3657306	3658328		putative_Al
STM3042	2.52	STY3754	3613296	3615947	ppc	phosphoen
PSLT010	15.32	STY4511	4403286	4404191		putative_m
STM1222	22.11	STY0910	902798	903910	potF	putrescine-
STM1031	68.47					
STM0738	9.41	STY2768	2620506	2621624	gcpE	GcpE_prot
STM2483	17.7	STY2799	2654421	2655059		putative_e
STM1952	8.29	STY0960	952706	954049	ycaJ	conserevd_
STM2420	12.06	STY2821	2684813	2685724		putative_tr
STM2481	7.04	STY2200	2037938	2039368	dcm	DNA-cytosi
STM2146	16.02	STY2495	2326944	2327594	rcsB	regulator_c
STM3282	8.3	STY4870	4731750	4732421		putative_m
STM2493	21.42	STY1142	1105511	1106407	hpaA	4-hydroxyp
STM0685	10.03	STY2576	2413430	2413984		conserved_
STM2248	13.03	STY2164	2008974	2009693	fliA	RNA_polyn
STM0964	8.19					
STM2221	12.97	STY1204	1161336	1162544		putative_m
STM1320	41.51	STY1755	1674560	1675906		putative_tr
STM3188	25.1	STY4732	4593908	4595071	yjfC	conserved_
STM3319	32.86	STY2984	2860176	2860997	sitB	Iron_transp
STM3342	16.49	STY1671	1600615	1601220	gst	glutathione
		STY2195	2035229	2035474		conserved_
STM1379	12.86	STY2277	2102617	2103981	yeeF	putative_ar
STM2288	13.87	aSTY2523				
		STY2558	2394080	2394523	nuoA	NADH_def
STM1690	36.86	STY4779	4640018	4640356		hypothetica
STM3844	50.3					
STM2466	8.54	STY4861	4724051	4724716		hypothetica
STM3646	13.26	STY2601	2437375	2438511	pdxB	erythronate
STM0463	8.97	STY1863	1771432	1772244		putative_in
STM2816	6.07	STY1589	1535717	1537246	pntA	pyridine_nu
STM1752	8.94	STY0361	370276	371733	pepD	aminoacyl-
STM2919	43.22	STY0186	195592	196359		putative_tr
STM1971	8.75	STY0236	246298	247122	dapD	2,3,4,5-tetr
		STY0150	154025	154945	ddlB	D-alanine:L
STM3468	64.56	STY1811	1729833	1731059	astC	succinylorn
STM3280	3.63	STY1772	1693623	1696010	pheT	phenylalan
STM0075	49.16					
STM1684	15.15	STY2375	2205844	2206644	thiD	phosphome
STM4058	12.5	STY1651	1579435	1580739	rstB	two_compc

		STY1702		1628054	1629022	ssaQ	putative_ty
STM3660	8.56	STY3915		3775779	3776477		putative_m
STM0183	5.57	STY0304		316373	317716		conserved_
STM3172	14.3	STY0242		254032	254589	frr	ribosome_l
STM1409	11.75	STY2190		2031045	2031668	rcaA	colanic_aci
STM2073	11.5	STY2642		2476613	2477851		putative_ar
STM2318	15.99	STY2547		2380843	2382372	nuoM	NADH_def
STM4343	3.65	STY1761		1682538	1684916	ppsA	phosphoen
STM1409	22.42	STY2992		2867010	2867768	prgK	pathogenic
STM2442	49.82	STY2680		2514808	2515641	cysU	sulphate_tr
STM2213	8.71	STY0549		556374	557153		putative_m
STM2648	14.82	STY3878		3734345	3734860	yihI	conserved_
STM4524	4.53	STY4708		4569160	4570128	psd	phosphatid
STM2697	29.34						
STM1467	32.37	STY3362		3204817	3205239		conserved_
STM4228	10.88	STY4256		4120323	4121168	ugpE	sn-Glycero
STM1428	5.12	STY3470		3314668	3316077	argG	argininosuc
STM3140	29.7	STY2579		2415435	2416082		putative_gl
STM0246	51.18	STY0560		566212	566871	sfbC	ABC_trans
STM0960	13.3	STY4752		4608620	4609255	ytfB	conserved_
STM3543	55.08	STY4819		4680830	4681828		regulatory_
STM1584	41.62	STY2913		2795905	2797305	gabP	GabA_perr
STM0764	13.93	STY4867		4729080	4729988		probable_ti
STM3639	47.29	STY4943		4803706	4804389	sthB	putative_fir
		STY4142		4005668	4005970		putative_lip
STM0638	5.68	STY3760		3621018	3623198	katG	catalase_(f
		STY1954		1842770	1844134	pabB	para-aminc
STM0291	16.42	STY0595		601650	602168	fimF	fimbria-like
STM1796	11.76	STY3851		3707114	3707986	rbn	ribonucleas
STM4188	28.33	STY0679		677946	678329	crcB	putative_m
STM4513	6.41	STY4390		4251094	4252041	fmt	methionyl-t
STM1657	32.83	STY1880a		1782539	1782802	pagD	putative_ou
STM1168	14.37	STY3747		3604987	3605622	yijC	possible_T
STM3711	6.1	STY0728		728712	729851	citB	citrate_utili
STM0530	15.64	STY0775		772772	773161	sdhC	succinate_l
STM2723	6.78	STY0977		971986	973074	serC	phosphose
STM0985	15.4	STY0627		624926	625630	entD	enterobacti
STM0282	19.1	STY4321		4203167	4203493	nirD	nitrite_redu
STM2540	12.36	STY3722		3572043	3572678	thiE	thiamine-pl
STM3567	73.57	STY4248		4112496	4113605	livK	leucine-spe
STM2779	36.19		aSTY2895				
		STY1441		1392475	1393983		putative_es
STM3009	23.16	STY1211		1167321	1167614	flgM	negative_re
STM1827	11.36	STY3556		3400613	3401587	yhdH	possible_o
STM4104	53.5	STY0040		37103	38674		putative_se
STM3953	37.97	STY0096		95086	95280		putative_m
STM1320	18.6		STY1873	1778669	1778896		hypothetic
		STY3857		3712481	3713722	yihS	
STM0055	99.8	STY0064	aSTY3532	64859	66634	oadA	oxaloaceta
STM0546	44	STY0026		25807	28428	bfcC	

STM0326	23.69	STY2248	2077627	2079459	pduG	PduG_prot
STM1468	79.1	STY4499	4390482	4392128	fumB	fumarate_f
STM3264	13.92		1989665	1990468	otsB	trehalose_j
STM3913	35.61	STY2743	2580723	2582264	ppx	exopolyphc
STM2299	37.31	STY4461	4346662	4346943		putative_m
STM2450	9.62	STY2858	2728865	2729383		putative_e>
STM0620	44.88	STY0071	72396	72947	citX2	citx_proteir
STM4517	18.81	STY3981	3847855	3849039	emrD	multidrug_1
STM3348	18.06	STY3589	3441457	3442212	ubiE	ubiquinone
STM2874	11.52	STY3605	3459465	3459923		conserved_
STM2086	10.96	STY2295	2123019	2124080	rfbU	putative_gl
STM2439	11.52	STY2625	2459776	2460717	yfdC	putative_m
STM4199	24.01	STY1946	1835235	1835501	minE	cell_divisio
STM3567	15.2	STY1315	1274508	1274990	yciA	putative_ac
STM3800	20.03	STY3122	2989810	2990727	gcvA	regulatory_
STM0122	8.69	STY3039	2907509	2908459		conserved_
		STY3773	3638730	3639392		hypothetica
		STY0620	621146	621799	nfnB	oxygen-ins
STM0449	13.61	STY3779	3644950	3646281	hslU	heat_shock
STM1457	12.8	STY2258	2085537	2086865	pduS	putative_fe
STM0145	5.96	STY3602	3457001	3457870	pldA	detergent-r
STM3851	8.19	STY3627	3482496	3483854	rffT	probable_4
STM1033	8.9	STY1858	1767478	1768128		conserved_
STM0197	36.05	STY3175	3044673	3045416	stdC	probable_fi
STM2051	26.26	STY3102	2970615	2971064		conserved_
STM2853	12.13	STY0469	475558	476277	phnR	probable_r
PSLT048	32.61	STY3585	3438193	3438741	tatB	sec-indepe
STM4187	43.14	STY0564	569787	570605	allR	negative_re
STM4538	53.96					
STM0154	15.58	STY0612	611956	613281	ykgC	probable_p
STM4532	40.43	STY0644	645392	647497	cstA	carbon_sta
STM3782	46.63	STY1450	1401175	1402488		putative_ph
STM2023	5.37		1466582	1467220		putative_tr
STM2436	10.63	STY1466	1415872	1417296		putative_re
STM1954	19.7	STY1438	1389041	1389820		putative_pe
STM0828	45.5	STY1436	1387631	1388362		ABC_trans
		STY2102	1954694	1955740	ruvB	Holliday_ju
STM0086	20.92	STY0536	543376	545052	ybaL	putative_tr
STM4052	11.25	STY0676	675155	676540	dcuC	C4-dicarbo
STM4538	48.19	STY4016	3878285	3879142		putative_P'
STM1307	6.02	STY0647	649009	650169		putative_ar
STM1350	15.02	STY0640	641555	643168	entE	2,3-dihydro
STM0981	4.29	STY4645	4506245	4507270		phage_inte
STM2975	10.89	STY1301	1259079	1259696	tdk	thymidine_
STM3247	4.87	STY1470	1419337	1421484	srfC	putative_vii
STM0189	15.36	STY1428	1378457	1382359	hrpA	ATP-deper
STM2087	11.6	STY1396	1349331	1350164		putative_e>
		STY4746	4605780	4605986		hypothetica
STM0272	20.55	STY2849	2717996	2720569	clpB	ClpB_prote
STM2063	15.82	STY3169	3041128	3041988		
STM0239	11.17	STY0413	426228	426941		hypothetica
STM3836	12.6					

STM1001	37.63	STY0502	509127	509585	ybaO	hypothetica
		STY3249	3113788	3114351		conserved_
		STY4104	3961570	3963225	lldP	L-lactate_p
STM0129	12.09	STY3971	3839541	3841202	yidE	putative_m
STM2868	4.06	STY3131	2999813	3001648	recD	exonucleas
STM0196	27.26	STY3176	3045457	3047946	stdB	probable_c
STM0608	22.22	STY0440	450278	450880		probable_p
STM2106	7.62	STY4192	4056066	4056833	yhjH	conserved_
STM1257	13.67	STY4151	4011055	4011540		putative_ac
		STY4114	3975401	3977251	selB	selenocyste
STM3705	11.97	STY4065	3924952	3925617	radC	putative_Dl
STM1830	46.63	STY4014	3876905	3877390		putative_P'
STM2556	10.83	STY0745	745574	746161	kdpC	potassium-
STM3976	41.32	STY4915	4774545	4775318		conserved_
STM0524	9.02	STY2939	2814016	2814546	emrR	putative_tr
STM4589	26.8	STY2343	2181100	2182503	baeS	putative_tw
STM3352	6.18	STY2452	2282606	2284411	yejA	putative_tr
		STY2310	2139431	2140651		putative_gl
STM1493	35.76	STY2395	2225657	2226574	yehZ	putative_pe
STM4578	33.4	STY2431	2260623	2261510		putative_hy
STM2753	16.28					
STM1101	34.2	STY2407	2239215	2239916		FAA-hydrol
STM0819	7.36	STY0929	919323	920756		conserved_
		STY4160	4019343	4019924	tag	3-methylad
STM1382	45.13	STY4264	4128092	4129360		putative_rit
STM3637	18.49	STY4129	3991757	3992221	yalL	conserved_
STM2909	16.92	STY4231	4097781	4098338		putative_lip
STM1345	7.57	STY3520	3362630	3363523	nanA	N-acetylnei
STM4272	7.75	STY3418	3259521	3260831		conserved_
STM1772	10.32	STY3312	3161255	3161968		hypothetica
STM2479	21.14	STY2974	2851263	2851871	hycB	formate_hy
STM2660	15.67	STY3382	3226045	3226659		putative_m
STM2342	17.05	STY1719	1639676	1640263	sseD	putative_pa
STM1004	16.92	STY1151	1112538	1113161	scsC	secreted_p
STM3356	51.21					
STM3274	10.13	STY0876	866783	867256		transcriptio
STM4174	32.31	STY1733	1652946	1653566	ttrR	putative_tw
STM0272	18.5	STY0804	800959	801711	gpmA	phosphogly
STM3586	39.08	STY0851	844634	845764		putative_in
STM1380	7.89		887921	889042	ylil	putative_o
STM0848	16.36	STY3495	3336495	3337061		conserved_
STM0852	23.92	STY2181	2024907	2025350	fliJ	flagellar_Fl
STM2349	22.24	STY3311	3160321	3161187		possible_tr
STM4076	10.27					
STM1353	20.1					
STM2791	28.72					
		STY4780	4640367	4640729		hypothetica
		STY0475	480564	481928		hpothetical
STM1785	33.12					
STM4531	71.1	STY0645	647561	647758		conserved_
STM0522	36.86	aSTY0569				
			STY0603	606216	606380	

STM1519	53.49	STY0624	623134	623475	ramA	transcriptio
STM0431	24.9	STY0625	623481	623729		putative_m
STM1538	42.34	STY1914	1807545	1809338		hydrogenas
STM2273	34.9					
STM0981	23.64					
STM0936	22.74	STY2508	2342588	2342842	yfaE	putative_fe
STM1631	22.35	STY3323	3169843	3170130		conserved_
STM4130	15.83	STY0918	910323	910643		putative_pf
STM1652	21.36	STY0662	662201	662629	ybdQ	conserved_
STM1298	36.66	STY4005	3869336	3869659		putative_Dl
STM1567	15.48	STY4087	3945229	3946254	tdh	threonine_;
STM1474	18.88	STY4004	3868976	3869245		putative_P'
STM3809	56.36	STY3970	3838919	3839347	hslS	heat_shock
STM0168	34.63	STY3968	3837754	3838089		putative_lip
STM1121	65.74					
STM4064	71.22	STY3800	3665275	3665415	cdh	
STM0912	28.58					
STM4355	37.22	STY4878	4740315	4740458		hypothetica
STM1057	27.58					
STM1223	49.28	STY1657a	1588293	1588424	malY	
STM3361	59.5	STY0860	854264	854524	ybiJ	putative_ex
STM3103	23.34	STY0700	696693	697034		putative_hy
STM4261	12.91	STY2142	1993043	1993378		putative_lip
		STY2580	2416206	2417099		conserved_
STM2702	40.4					
PSLT050	73.62					
STM2746	22.22					
STM2372	20.84					
STM2774	11.94					
STM3427	43.55					
STM3176	56.7					
STM1818	2.44					
STM2043	58.47					
STM2174	13.2	STY2523	2358062	2359258		conserved_
STM2355	67.4	aSTY2584				
STM3113	62.52	aSTY2657				
STM3076	70.44	aSTY2711				
STM0475	66.2	aSTY2719				
STM1976	14.89	aSTY0076				
PSLT075	9.38	STY0307	319800	320294		hypothetica
		STY0349	357131	357586	tinR	transcriptio
		STY1017	1013315	1014100	betA	bacterioph
STM0108	16.05	STY1044	1027660	1028037		hypothetica
		STY1060	1039212	1039664		putative_ba
STM0573	13.07	aSTY0328				
STM1457	23.35	STY0793	789404	790534	tolA	tolA_protei
STM2621	95	aSTY1032				
STM0407	36.7	STY2006	1886884	1887057		hypothetica
		STY2029	1901514	1902659		putative_ba
		STY3191	3056352	3057050		hypothetica
STM0438	29.88	STY0477	483048	483593		conserved_

STM3275	13.08	STY1026		1018791	1019264		putative_m
		STY1048	aSTY1049	1030572	1032038		putative_ba
		STY1064		1042722	1043789		putative_ba
STM1533	10.6	STY3089		2953664	2954134	steE	fimbrial_su
STM2238	12.9	STY3288		3137348	3137878		putative_ea
		STY1028		1019934	1020200		putative_ba
		STY1050	STY2037	1032678	1033898		putative_ba
STM2097	11.35	STY1066		1044292	1045023		putative_ba
		STY2042		1911880	1912092		hypothetica
		STY2058		1920237	1920791		putative_m
		STY3659		3516686	3516838		hypothetica
STM0557	4.35	STY4838		4698333	4700849	sefC	outer_merr
STM3478	12.16	aSTY4615					
STM0591	5.48	STY4522		4410683	4412047		DNA_helic
STM2377	14.56	STY4669		4531179	4531631		putative_m
		STY4822		4685181	4686257		protein_kin
STM1401	34.25	STY4842		4702716	4702925		probable_r
		STY4570		4448011	4449489		putative_ea
STM2532	10.47	STY4587		4464722	4465231		hypothetica
		STY4609		4481801	4482523	sopE	invasion-as
STM3661	10.41	STY4649		4508645	4509535		Putative_m
		STY4666		4528781	4529794		probable_p
STM3330	6.98	STY4571		4449482	4449925		putative_lip
		STY3967		3836526	3837752	yidR	putative_A'
STM0784	12.84	STY3947		3815134	3815946	yidA	conserved_
STM2351	20.96	STY3929		3792955	3793728	pstB	phosphate_
STM1947	15.58	STY3992		3857652	3858242	uhpA	Two-compr
STM2581	21.09	STY3481		3325929	3326894		putative_m
STM1129	65.54		STY3518	3360298	3360977		
STM3146	15.75	STY3497		3337638	3338156		conserved_
STM0765	51.13	STY3536		3377394	3378746		possible_rr
STM0477	47.84						
STM0161	61.18	STY0702		698273	699226		probable_p
STM0054	11.88	STY0721		718897	720051	nagA	N-acetylglu
STM3576	11.77		aSTY0746				
		STY1543		1495677	1496579		putative_m
STM0175	28.61						
STM4477	20.44	STY3939		3803950	3804390	rnpA	RNase_P_
STM1359	12.54		aSTY3924				
STM3568	24.25	STY0011		10841	11245	yaal	conserved_
PSLT009	60.2	STY1878		1781177	1781734	pagC	outer_merr
STM4247	10.52	STY2833		2695031	2695660	rpoE	RNA_polyn
STM1382	47.3	STY3892		3752664	3753593	rbsK	ribokinase
STM3242	9.46	STY0078		80361	80756	caiF	transcriptio
STM1836	59.31	STY0142		143140	144906	ftsI	penicillin-bi
STM0157	4.8	STY0180		186995	188617	yacH	putative_ea
STM3214	9.95	STY3566		3410246	3411130	yhdJ	putative_ac
STM2163	34.92	STY1573		1522562	1523710		putative_Al
STM1974	20.88	STY4349		4226381	4226668	yheL	conserved_
STM0484	8.14	STY1240		1193926	1194930	holB	DNA_polyn
STM4486	10.09	STY1269		1225509	1226630		conserved_
STM1797	61.53	STY1846		1760574	1760822		putative_m

		STY2314	2141948	2143426	wzxC	putative_tr
STM3489	6.94	STY4308	4186144	4187382	hofQ	type_II_sec
STM1301	23.81	STY1275	1232234	1232695		putative_m
		STY1842	1758799	1759110		hypothetica
STM2084	36.89	STY2317	2146457	2147899	manC	mannose-1
STM2043	7.78	STY2347	2184687	2185394		hypothetica
STM3776	2.8					
STM3070	47.77	STY1825	1743564	1744559	gapA	glyceraldeh
STM1987	7.39	STY2336	2166493	2169483	yegE	putative_m
STM0803	24.29	STY0008	8729	9319	mog	molybdopte
STM0072	18.25	STY0316	327278	327694		probable_s
STM2460	10.24	STY0359	368371	369510		conserved_
STM2590	38.43					
STM0843	10.24					
STM2249	31.98	STY4479;_	4364950	4366686		cytochrome
STM2643	9.8					
STM1049	14.64	STY2645	2479743	2480978		putative_m
PSLT104	24.34	STY2685	2519474	2519923		conserved_
STM3429	16.81					
STM2237	38.45					
STM2590	41.13					
STM4305	33.34	STY2775	2627135	2629512		
STM1183	11.13	STY2810	2669495	2670259	yfhG	putative_m
STM2560	10.51	STY3848	3705233	3705679	ygjM	conserved_
STM0558	71.46					
STM3144	55.47	STY2976	2852688	2853044	hypA	HypA_prot
		STY3060	2923962	2924870	cysD	ATP_sulfur
STM1005	61.64					
STM0007	64.93	STY2710	2542737	2543687	talA	transaldola
STM0609	10.22	STY0956	945765	946733	trxB	thioredoxin
STM1993	11.57	STY0990	985175	985921	kdsB	3-deoxy-m
STM0490	6.44	STY0975	969211	970980		conserved_
STM1046	76.77					
STM1436	34.59	STY4764	4621690	4621962	ytfK	conserved_
STM3787	43.4	STY2512	2346265	2347623	glpT	glycerol-3- ϕ
STM0618	26.13	STY2573	2411356	2411628		putative_su
		STY2132	1985091	1985978	motA	motility_prc
STM2428	25.06	STY2595	2431710	2432384	dedD	DedD_prot
STM4479	8.67	STY1259	1214060	1215304		ABC_trans
STM2121	13.31	STY1696	1622537	1623178	ribE	riboflavin_s
STM4193	12.91		STY1277	1233033	1233698	putative_rit
STM0543	20.1	STY0030	29437	29982	bcfE	fimbrial_su
STM4355	6.47	STY2193	2032567	2033382		conserved_
STM1610	19.78	STY1786	1707695	1707985		conserved_
STM1702	7.53	STY4725	4587425	4589863	rnr	ribonucleas
STM3300	13.26	STY4759	4616552	4617400	ytfG	conserved_
STM3542	47.91					
STM2473	13.5	STY4858	4721482	4722090		hypothetica
STM3367	16.67	STY2510	2344196	2345074		putative_tr
STM4369	4.53					
STM4383	20.36	STY2572	2409944	2411335		putative_m

STM3446	8.59	STY2133		1986106	1986690	flhC	flagellar_tr
STM4213	15.55	STY4607		4480094	4481266		probable_n
STM0125	22.5	STY2703		2536769	2537566		putative_cc
STM3609	26.18	STY2847		2709975	2711276	kgtP	alpha-ketoq
STM0741	15.82	STY0393		401742	402752		probable_tr
STM0992	7.6	STY2220		2055131	2055874	cobS	cobalamin_
STM4101	32.23	STY4416		4283548	4284897	lysC	lysine-sens
		STY2944		2819830	2821386	gshA	gamma-glu
STM0077	63.5						
STM1419	19.78	STY2187		2028944	2029681	fliP	flagellar_bi
		STY2995		2868356	2869534	prgH	pathogenic
STM2896	18.7	STY2122		1973172	1975250	flhA	flagellar_bi
		STY2303		2132127	2133110	rflB	putative_re
STM2361	19.12	STY3897		3757125	3757544	rbsD	high_affinit
STM3296	13.14	STY0240		252164	253015	tsf	elongation_
STM1151	18.34	STY0417		429218	429538	psiF	phosphate_
STM2222	16.09	STY4410		4277873	4278742	yjbC	putative_ps
STM3501	5.66	STY0084		86503	88020	caiT	probable_c
STM1180	8.68	STY1804		1723228	1724136		conserved_
STM0683	3.66						
STM2842	6.45	STY1658		1588650	1589651	add	adenosine_
STM2623	100		STY1025	1018267	1018791		conserved_
STM1428	13.24	STY4812		4671074	4671589		putative_ac
		STY0588		594664	595530	folD	Fold_bifun
STM0919	70.28						
STM0588	12.75	STY4916		4775351	4776214		conserved_
STM3121	15.49	STY4094		3952633	3953100	secB	protein-exp
STM1787	16.86	STY4287		4161921	4162691	bioH	putative_bi
STM2137	57.83						
STM4278	21.55	STY1899		1793714	1794130		putative_re
STM2958	7.6	STY0561		566910	568004	ybbB	hypothetica
STM1039	63.4						
STM2612	98.9						
STM2485	9.36	STY4758		4615506	4616471	ytfF	putative_m
STM1026	73.1						
STM3301	14.07	STY2848		2711380	2711835		conserved_
STM3504	24.88	STY3385		3228987	3229349	folB	dihydroneo
		STY4275		4143115	4144548	glgA	glycogen_s
STM0205	41.14	STY4056		3917138	3917755		putative_m
STM4416	14.09	STY2794		2650555	2651598	asrA	anaerobic_
STM0685	33.61	STY1242		1196033	1197466	ptsG	PTS_syste
		STY3880		3735443	3736075		ATP/GTP-t
		STY0870		861286	861789	dps	DNA_prote
STM0419	9.9	STY0836		835204	836193	moaA	molybdenu
STM2585	10.2	STY1699		1626296	1627075	ssaT	putative_ty
STM1307	10.02	STY2691		2524275	2525327	yfeG	ethanolami
STM3882	11.67	STY3796		3660392	3661927		putative_Al
STM0175	32.5	STY0693		689175	689492	ybeB	conserved_
PSLT023	14.49	STY0288		303553	304548		hypothetica
STM2402	13.14	STY2282		2108699	2109778	hisC	histidinol-pl
STM2809	41.94	STY1355		1316752	1317558	sapF	peptide_tra
STM4551	22.17	STY0418		429630	430742	adrA	adrA_prote

STM1339	48.53	STY1940		1831532	1831669	hypothetica
			aSTY2345			
STM1126	31.18	STY0715		709980	711065	ybeZ
		STY4488		4375285	4375620	phnA
		STY2116		1966751	1967320	conserved_
STM0734	9.01	STY4459		4337507	4344277	large_repe
STM3718	12.59	STY4078		3935641	3936651	waaJ
STM2743	8.86	STY1987		1873610	1874331	sopE2
		STY3718		3567325	3568389	hemE
STM4532	5.43	STY3912		3772838	3773701	atpG
STM1473	67	STY2493		2322394	2323530	ompC
STM0956	3.94	STY0847		840911	842152	ybhO
STM4211	13.32	STY0453		461599	462049	ybaD
STM3495	14.54	STY3816		3678271	3678891	sodA
STM3024	17.8	STY2269		2094093	2094857	phsC
STM1827	25.16	STY1371		1327374	1328042	pspA
STM3146	12.29	STY2868		2737496	2738086	grpE
STM1945	11.34	STY4375		4241012	4241515	rpsE
STM4491	10.93	STY4071		3929404	3930438	waaQ
STM1542	19.85	STY3573		3423822	3424367	hemG
STM3446	6.86	STY2829		2690859	2692658	lepA
		STY3613		3467268	3467471	yifL
STM1545	7.37	STY3638		3494786	3496045	rho
STM2345	17.22	STY2185		2028154	2028567	fliN
STM4247	23.52	STY1930		1823207	1824277	dadX
STM2947	6.44	STY2616		2449561	2450646	aroC
STM0066	17.34	STY2554		2389676	2391013	nuoF
STM0602	15.78	STY4061		3921697	3922338	pyrE
STM0963	10.06	STY4606		4479569	4480084	
STM1419	20.02	STY3013		2885671	2886345	spaP
STM1570	12.8	STY3827		3688116	3689375	rhaA
STM0632	37.63	STY3586		3438745	3438999	tatA
STM2272	30.41	STY3351		3194450	3196780	parC
		STY2650		2485913	2487115	nupC
STM3796	34.95	STY3656		3512960	3514660	ilvG
STM3677	68.95	STY0118		118656	119351	araD
STM4108	13.82		STY3058	2921921	2922526	cysC
STM2356	52.59	STY3046		2912765	2913358	
STM0437	19.42	STY3870		3725331	3726065	
STM3247	57.93	STY0573		579922	581070	glxK
STM1497	95.5	STY0963	STY1567	958292	958909	dmsB
STM1830	45.83					
STM4464	2.84	STY1434		1385267	1386817	
STM1298	3.69	STY1336		1293319	1295916	topA
STM4035	56.35					
STM2839	16.97	STY1947		1835623	1836750	rnd
STM3646	13.33	STY1422		1372648	1373637	ldhA
		STY2002		1882219	1882833	
STM1296	16.67	STY1390		1342585	1343175	
STM3731	14.68	STY2103		1955713	1956324	ruvA
STM0530	16.5	STY0582		590323	590832	purE
STM2729	22.39	STY0622		622264	622845	

		STY1412	1362270	1363250	conserved_
STM4456	9.8	STY1482	1435416	1436048	hypothetica
STM1827	25.53	STY0376	386985	388559	putative_rtr
STM2107	21.3	STY1283	1237565	1237918	conserved_
STM0926	10.16	STY1458	1408209	1409447	putative_be
STM1861	31.22				
STM2842	12.79	STY2106	1958187	1958780	ruvC crossover_
STM1495	8.88	STY3977	3842953	3844275	dsdA D-serine_d
STM3492	14.93	STY3127	2994381	2995187	conserved_
STM3858	9.79				
STM1805	10.11				
		STY3303	3148995	3149714	possible_h
STM3280	35.98	STY3640	3496937	3498202	rhIB putative_A
STM4519	7.59	STY4137	4001081	4002403	xylA D-xylose_is
STM0514	32.97				
		STY1226a	1182681	1182929	conserved_
STM3152	8.92	STY3107	2973418	2974266	conserved_
STM1061	16.36	STY2873	2741767	2742243	conserved_
STM4201	3.47	STY3209	3074659	3077532	gcvP glycine_del
STM3598	33.47	STY3259	3121165	3122211	ansB L-asparagi
STM3744	12.48	STY3743	3600451	3601233	murl glutamate_
STM1128	5.56	STY3264	3124206	3124925	conserved_
STM3166	32.46				
		STY0667	665734	667239	citT citrate_car
STM4334	24.73				
		STY2447	2277111	2277683	yeiP
STM4189	20.39	STY2917	2798936	2799235	putative_tra
STM4005	45.03	STY1370	1326223	1327230	pspF psp_opero
STM4448	16.53	STY3195	3061120	3061665	probable_is
		STY0397	406388	407020	RhtC-like_t
STM2546	11.75	STY4148	4010135	4010602	yafP putative_ac
STM2461	8.62	STY2437	2267889	2268938	yeiH putative_m
STM0906	40.9				
STM4380	5.27	STY2389	2220042	2221727	yehU putative_tw
STM4162	19.23	STY2428	2257799	2258656	yeiG putative_es
STM0691	10.39	STY2318	2147896	2149119	wcal putative_gl
STM2162	19.57	STY2394	2224484	2225653	yehY putative_pe
STM1821	8.45	STY4102	3959610	3960800	lctD putative_L-
STM2241	19.13	STY4358	4233316	4233945	rplC 50S_ribosc
STM2991	17.42	STY4715	4576713	4578032	amiB N-acetylm
STM0447	13.62	STY4365	4237073	4237483	rplP 50S_ribosc
STM2925	30.71	STY3194	3060097	3060849	possible_li
STM3376	12.43	STY4736	4597742	4598491	yjfP conserved_
STM2270	12.44	STY4901	4763416	4764042	conserved_
STM0768	11	STY4693	4555035	4556063	yjeK conserved_
STM2156A	29.87	STY2385	2217595	2218053	yehR putative_li
STM4227	2.66	STY0711	706916	708454	Int apolipoprot
STM2030	24.55	STY3245	3110497	3110994	conserved_
STM2994	5.97	STY1097	1075470	1077524	helD helicase_
		STY0814	810271	811044	modA molybdate-
STM1255	6.35	STY0888	882339	883877	yliB putative_Al
STM3961	10.2	STY3502	3341334	3342188	conserved_
STM1781	4.2	STY0819	814916	816199	ybhC possible_p
STM3130	8.54	STY0863	855280	856201	ybiN
STM0244	19.84	STY3210	3077695	3078087	gcvH glycine_cle

	STY0284		300696	301163	rnhA	ribonucleas
	STY3403		3248471	3249505		possible_o
STM1842	17.77	STY1723	1642803	1643129	sseA	putative_pa
STM0933	15.65	STY0854	848481	849155	ybiH	hypothetica
STM4517	49.92	STY0899	892908	894140	mdfA	multidrug_t
STM0452	25.48	STY0447	457512	457877		conserved_
STM2683	35.38					
STM4363	14.75					
STM3380	19.04	STY4886	4750002	4750289		hypothetica
STM3109	20.51	STY4518	4407323	4407814		Putative_ar
STM4123	39.98					
		STY4418	4287376	4287621		putative_e)
STM0159	22.19					
		STY4399	4262945	4263382	yjaB	putative_ac
STM4272	17.14	STY2219	2054034	2055140	cobT	nicotinate-r
STM2734	22.65					
STM4310	25.31	STY4643	4505250	4505492	apl	phage_reg
PSLT110	32.21	STY3464	3307435	3307740	rpsO	30S_ribosc
STM0153	13.11	STY3203	3068924	3069190		conserved_
STM2840	31.06	STY3442	3285768	3286052	gatB	PTS_syste
STM2129	20.14	STY1474	1426254	1426730		putative_m
STM2993	18.75	STY1529	1484622	1485032	hyaE2	hydrogenas
STM2956	17.49	STY1453	1404112	1404651	rimL	ribosomal-p
STM4307	15.62	STY3572	3416892	3417113	yhdV	possible_li
STM1351	66.7	STY0088	91561	91848	fixX	ferredoxin_
STM1732	34.62	STY1563	1512377	1512686		
STM0462	70.32	STY2808	2667746	2668084	glnB	nitrogen_re
STM0555	32.39		aSTY0602a			
STM4572	24.27	STY2689	2522340	2522669		putative_m
STM3166	18.66					
STM2246	46.2	STY2736	2573190	2573549		putative_ar
STM2212	35.39	STY2784	2641888	2642223	fdx	ferredoxin
STM2087	6.05	STY0765	764172	765945		
STM1345	31.21	STY0687	682792	683055	ybeD	conserved_
		STY2533	2368537	2368914		putative_m
STM3974	14.1					
STM4402	19.48					
STM1323	8.16					
STM0019	17.61		aSTY4843			
PSLT010	100	STY4846	4704346	4705191		putative_ou
STM4097	24.41					
PSLT107	100					
STM2189	35.03					
STM2089	18.67					
STM0498	51.31					
STM3390	58.23	aSTY0520				
STM0353	28.5	aSTY0544				
STM1444	8.57	aSTY0569				
STM4205	61.01	aSTY0606				
STM4532	28.25	aSTY0644				
STM1375	41.3	STY1255	1207444	1208235		putative_e)

STM0142	8.3	STY1595		1540134	1540817	hypothetica
STM3624	13.93	STY1612		1549208	1549534	putative_m
STM0994	11.87	STY1628		1560870	1561205	hypothetica
STM1268	34.82	STY1853		1764189	1764344	hypothetica
STM1918	10.38	STY1068		1045516	1046268	putative_ba
STM0498	17.99	STY1606		1546229	1546660	hypothetica
STM0055	18.76	STY1622		1557389	1557835	conserved_
STM2772	60.09	STY1643		1572347	1572919	DNA-invert
STM0627	14.46	STY1062		1041830	1042417	putative_ba
STM2977	14.08	STY2038	aSTY1049	1907613	1908143	conserved_
		STY2054	STY2054A	1917389	1917544	hokW Similar_to_
		STY1616		1551982	1553478	hypothetica
STM0014	4.93	STY1632		1564930	1566084	putative_ba
STM2085	7.79	STY1889		1786795	1787337	conserved_
STM2703	3.97	STY1072	STY2014	1048497	1050008	hypothetica
STM0896	18.42	STY2048		1914557	1915114	putative_ba
		STY2064		1924145	1924567	conserved_
		STY1635		1567003	1568106	putative_ba
STM1355	8.92	STY1891		1788274	1788687	putative_pe
		STY2025		1897826	1898476	putative_ba
		STY3091		2954726	2955844	possible_si
		STY2066		1924903	1925322	putative_re
STM0980	7.18	STY2296		2124655	2125656	rfbV putative_gl
STM0090	23.81	STY4590		4466754	4467050	hypothetica
STM3191	10.7	STY4629		4496059	4496754	hypothetica
		STY4652		4512573	4513877	vexD Vi_polysac
STM1436	6.65	STY4557		4438648	4439562	putative_m
STM2589	13.96	STY4574		4452916	4453302	hypothetica
		STY4591		4467128	4467586	hypothetica
STM2882	27.94	STY4826		4689323	4689562	bacterioph
STM4026	1.81	STY4851		4712736	4716035	conserved_
STM2978	5.52	STY4625	aSTY3677	4491144	4492280	putative_m
		STY4528		4415909	4417252	hypothetica
STM1005	3.82	STY4552		4435339	4436490	rci shufflon-sp
		STY4827		4689566	4690426	putative_ph
STM1776	26.45	STY3197		3063268	3064366	prfB peptide_ch
STM1386	7.26	STY2634		2468435	2470441	pgtB phosphogly
STM0489	12.33	STY2234		2064488	2065261	cbiF precorrin-4
STM1919	59.6	STY4234		4099515	4101158	methyl-acc
		STY0143		144893	146380	murE UDP-N-acc
STM2305	3.26	STY0181		189006	191603	acnB aconitate_t
STM2515	8.27	STY0170		174007	174957	putative_g
STM3513	9.18					
STM3011	8.61	STY0220		231184	232074	fhuD ferrichrome
STM2559	69.28	STY0259		273613	275754	ldcC lysine_dec
STM2830	35.59	STY1547		1499485	1500012	conserved_
STM0021	43.93					
STM2364	11.61	STY0735		735177	735719	seqA seqA_prot
STM0353	8.76	STY2173		2017348	2018613	yedE putative_m
STM3712	7.44	STY4084		3941839	3942885	waaF ADP-hepto
STM2745	8.21	STY2228		2060434	2061147	cbiL precorrin-2
STM4160	7.26	STY1326		1282639	1283997	trpC indole-3-gly

STM2532	8.85	STY0093		93940	94362		probable_s
STM2119	24.54	STY3930		3793743	3794468	phoU	phosphate_
		STY0015		16094	16438		putative_ph
STM0776	12.68	STY3265		3125080	3126132	mutY	A/G-specifi
STM2971	17.77	STY3491		3332682	3333464		putative_m
STM2130	21.69	STY3527		3368465	3368869		conserved_
STM3973	47.04	STY0682		679335	679538	tatE	sec-indepe
PSLT072	31.36						
STM3201	31.88	STY1189		1150839	1151066		putative_lip
STM2293	20.68	STY4299		4177131	4177532	hslR	heat_shock
STM2562	15.27						
STM1640	17.15	STY4267		4131687	4132382		conserved_
		STY4894		4756264	4758555	mdbB	putative_ph
STM1204	3.4	STY1244		1197551	1199726	fhuE	
STM4572	10.07						
STM0747	30.98		aSTY4259				
STM2975	11.51	STY4898		4760729	4761220		putative_m
STM0772	8.02	STY4932		4793635	4794282	gpmB	probable_p
STM2761	25.4						
STM0498	22.43	STY4235		4101355	4103553		heavy_met
STM0301	7.8						
STM2088	16.94						
STM2740	45.74						
STM3474	3.42	STY2908		2788919	2790433		putative_m
STM2493	33.08	STY4440		4310250	4310492	yjbO	putative_m
PSLT008	26.91	STY4494		4382756	4383517	adiY	putative_Ai
		STY0901		895006	896217		putative_m
STM1578	12.46	STY2714		2547296	2547871	yffH	conserved_
STM2991	44.75	STY2687		2520548	2521417	amiA	probable_N
STM0767	9.59	STY0932		923683	924654	hcr	NADH_oxid
STM4345	6.44	STY0967		961490	962911	ycaM	probable_tr
STM3374	2.75	STY0996		990720	995186	mukB	cell_divisio
STM2594	83.68						
STM2588	29.07		STY3777	3643326	3644318	ftsN	cell_divisio
STM1000	16.99						
STM0734	39.37	STY4703		4560475	4562265	frdA	fumarate_r
STM3121	19.92	STY2655		2493002	2493886	xapR	xanthosine
STM2594	31.13						
STM1488	16.24	STY2779		2637127	2637969	sseA	putative_th
STM0399	19.88	STY2815		2678655	2679290	yfhB	putative_m
STM0710	58.7	STY2807		2666237	2667697		putative_tr
STM2167	9.04	STY4709		4570220	4571296	yjeQ	putative_m
STM4063	9.27	STY2211		2048039	2049493	amn	AMP_nucle
STM2318	20.4	STY2546		2379379	2380656	nuoN	NADH_def
STM3100	7.81	STY2590		2426285	2427682		putative_ar
STM0682	9.07	STY1237		1191470	1192279	pabC	4-amino-4-
STM2469	24.25	STY2261		2087777	2088229	pduV	putative_pr
STM4146	98.92	aSTY3739	aSTY4353				
STM0682	53.54	STY1576		1525912	1527072		putative_re

STM0179	5.69	STY0341		348682	349626	sinR	LysR-famil
STM3364	6.45	STY1681		1608145	1610184		putative_m
STM3453	32.88	STY4753		4609433	4610095	fkIB	probable_F
STM3064	13.4	STY0134		135983	136927	leuO	probable_a
STM1224	20.35		STY2152	1999201	1999338		hypothetica
STM2760	40.42						
STM4533	6.61						
STM3627	7.04	STY2544		2377251	2378168		putative_hy
STM1956	6.18	STY2570		2408171	2409124		putative_tr
		STY4802		4661886	4663289		putative_m
STM0447	1.89						
STM0205	7.9	STY2589		2424773	2426194		putative_ar
STM0097	14.83	STY1229		1184943	1185464		conserved_
STM2214	46.58	STY1767		1690203	1690667	nlpC	putative_lip
		STY1111		1083598	1083927		hypothetica
STM0175	48.22	STY0336		343633	346143	safC	outer-mem
STM0935	8.22	STY0255		269925	270884	accA	acetyl-coer
STM0600	6.99	STY0485		489339	490295	cyoA	cytochrome
STM0737	14.88	STY0176		182065	183954	aceF	dihydrolipo
STM4220	12.79	STY1796		1716184	1716942		conserved_
STM1361	49.55						
STM4196	9.23	STY2900		2782658	2783554	mig-14	putative_tr
STM1117	23.11	STY1662		1591701	1592141		putative_m
STM0328	44.42	STY1579		1528279	1529532		putative_m
STM3391	8.17	STY4425		4294450	4295640	malE	periplasmic
		STY0351		359306	360025		possible_o
STM1799	7.76	STY0409		423107	424201	yaiW	putative_lip
		STY0445		454536	456383	secD	protein-exp
STM3965	10.87	STY0144		146377	147735	murF	UDP-N-ace
STM0797	21.71	STY2593		2430911	2431399	cvpA	colicin_V_p
STM3177	53.18	STY2904		2786824	2787498	tctD	transcriptio
STM3478	7.3	STY1753		1672269	1673756		conserved_
STM2351	50.36	STY4251		4115862	4116629	livG	high-affinity
STM0984	21.48	STY0504		511391	513172	mdlB	putative_Al
STM0150	60.71	STY0617		615827	617221	pheP	phenylalan
STM2211	24.01	STY2446		2276572	2276976		conserved_
STM1368	7.54	STY4771		4631069	4632277		putative_su
STM3557	8.3	STY2838		2700857	2701444	yfiK	putative_m
STM4121	14.76	STY4161		4020081	4020785	yhjY	putative_m
STM2175	17.81	STY3458		3298444	3299322	yhbV	conserved_
STM3533	41.08	STY2522		2357030	2357812		putative_tr
STM4163	15.22	STY2786		2644088	2644630	yfhE	chaperone_
STM0176	36.52	STY0032		30509	31213	bcfG	fimbrial_ch
STM1806	6.38	STY4774		4634604	4635620	fbp	fructose-1,6
STM1015	52.79	STY4896		4759357	4760094	dnaC	probable_C
STM0915	75.4						
		STY4903		4764702	4765490		ferric_iron_
		STY4086		3944023	3945219	kbl	2-amino-3-
		STY4180		4039201	4039953	yhjQ	conserved_
		STY3451		3294153	3294788		conserved_
STM3553	9.11	STY2511		2345190	2346260	glpQ	glycerophos
		STY2506		2339060	2341345	nrdA	ribonucleos

STM1415	36.29	STY3017		2888677	2889972	spal	secretory_ε
STM2554	30.8	STY3787		3653158	3653586	yiiR	putative_m
STM3982	14.86	STY0737		737499	737984		possible_5-
STM0153	23.13	STY0780		779343	780551	sucB	dihydrolipo.
STM4174	41.36	STY3876		3731061	3732470	glnG	Two-compr
STM2142	10.11	STY4327		4209280	4209843	pabA	para-aminc
STM2972	10.48	STY3881		3736421	3739270	polA	DNA_polyn
STM0321	16.01	STY0909		901973	902449		conserved_
STM0838	33.9	STY4339		4217765	4219672	yheS	probable_Α
STM0581	53.99	STY4463		4349095	4349418	soxS	regulatory_
		STY2825		2687272	2688000	recO	DNA_repai
STM1467	2.39	STY2085		1937444	1939495	opdB	oligopeptid
STM0107	17.33	STY3713		3564352	3564807		possible_e.
STM0668	8.04	STY3862		3719625	3720317		conserved_
STM0768	3.26	STY1697		1623395	1624768	ydhE	hypothetica
STM0128	16.21		STY2675	2510629	2511348		putative_ar
STM1957	100	STY1844	STY0256;_STY0437;_	1759921	1760379	tnpA	transposas
		STY2850		2720699	2721430	yfiH	conserved_
STM0661	37.66	STY0060		60161	61081	yaaF	putative_nu
STM2634	99.6	aSTY1013					
STM2150	47.39		STY1994	1877792	1877968		hypothetica
PSLT002	42.32	STY3184		3052190	3052441		endonuclea
STM1684	10.1		STY4728a	4591934	4592185		
STM2137	19.92	STY4859		4722451	4723362		hypothetica
STM2463	31.13	STY2256		2082995	2084389	pduP	putative_Ci
STM2316	10.01	STY4478		4364001	4364957	nrfD	cytochrome
STM3882	15.11	STY2113		1964037	1964780		conserved_
STM2734	19.79	STY4453		4323622	4325010		putative_in
STM3296	14.99	STY0009		9376	9942	yaaH	conserved_
STM0876	6.44	STY0048		47414	48313	nhaR	transcriptio
STM2079	6.64	STY3636		3492395	3493441		lipopolysac
STM0457	48.77	STY3597		3451801	3452610	yigL	conserved_
STM0602	20.09	STY3622		3475920	3476660	hemD	uroporphyr
STM1290	45.58	STY3228		3095113	3096159	epd	D-erythroε
STM0910	8.03	STY1296		1254751	1255656		conserved_
STM1820	28.65		STY1917	1810671	1811075	hyaE	hydrogenas
STM4483	36.97	STY3162		3034527	3035288	kduD	2-keto-3-de
STM3247	63.15	STY3097		2964858	2966000		conserved_
STM1374	46.9	STY3125		2992699	2993142		conserved_
STM3170	31.9	STY3819		3680221	3680736		possible_r
STM3905	3.66	STY3108		2974380	2975744	ygdH	conserved_
STM0490	16.37	STY3846		3703910	3704839		putative_lip
STM0124	6.55	STY3594		3447467	3449731	metE	5-methyltet
STM3044	18.41	STY3610		3464804	3465760	xerC	integrase/r
STM0309	8.03	STY3635		3491209	3492339	wecB	UDP-N-ace
STM4292	6.82	STY3741		3592550	3593512	birA	bifunctiona
STM0671	4.66	STY3134		3008249	3011620	recC	exonucleas
STM3626	54.01	STY1309		1269082	1270086	oppF	oligopeptid
STM0989	8.53	STY3789		3654396	3655163	tpiA	triosephosφ
STM1960	16.8	STY0527		533092	533643	apt	adenine_ph
STM4540	8.37						

STM2777	17.94	STY0628		625677	627932	fepA	ferrienterot
STM0818	11.4	STY0976		971108	971800		putative_m
STM0063	9.64	STY0338		347043	347864		conserved_
		STY1514		1470680	1471168		putative_re
STM0189	4.71	STY1479		1431906	1432967		possible_A
STM3121	16.73						
STM4381	7.28	STY1403		1354289	1355236		conserved_
STM2084	7.04		STY1353	1314180	1315562		hypothetica
STM1804	7.22	STY0556		562946	564079		outer_merr
STM0459	37.39	STY1005		1003596	1004057		putative_tra
STM0957	27.54	STY0954		942163	943884	cydC	transport_/
STM0062	44.88		STY0669	668145	668564	citX	conserved_
STM2995	8.43	STY0652		653380	654126	dsbG	thiol:disulfic
STM1500	17.2	STY1319		1277177	1277815		putative_ou
STM1573	25.07	STY1491a		1448758	1449193		
STM3644	16.77	STY1443		1396054	1396629		putative_e)
STM3280	44.5	STY1410		1360852	1362223	dbpA	
STM3208	5.74	STY1376		1329465	1330862		putative_A
STM0882	20.34	STY3095		2960705	2962000	ygcA	putative_Rl
STM2119	57.35	STY3149		3020503	3021216		putative_m
STM0858	10.69	STY3186		3052722	3053522		conserved_
STM0143	11.48	STY3252		3115630	3116610	pilT	Type_II_se
STM2383	7.43	STY0489		493813	495111	tig	trigger_fac
STM2563	13.82	STY4228		4094749	4095327		conserved_
		STY4117		3980242	3982197		conserved_
STM4447	46.53	STY4018		3880242	3880985		conserved_
PSLT020	31.65	STY3353		3197757	3198149		possible_e
STM3014	4.1	STY3159		3031938	3032645	ygeA	conserved_
STM0232	5.3						
STM3966	20.29						
STM1694	46.63	STY4170		4029971	4030873	dppC	dipeptide_t
		STY4133		3994888	3996138	avtA	valine--pyru
STM2273	8.31	STY4099		3956485	3957681		putative_ra
STM2811	5.14	STY4045		3904647	3906356	yicH	putative_e)
		STY0389		396876	399850	res	
STM0430	18.69	STY2975		2852017	2852478	hycA	formate_hy
STM0945	8	STY3302		3148033	3148956		conserved_
STM2683	11.04	STY2977		2853114	2853986	hypB	hydrogena:
STM4272	48.21	STY2412		2243900	2244595	yohK	puatative_r
STM2105	36.97	STY2293		2120634	2122073	rfbM2	mannose-1
STM2253	21.83	STY2334		2164849	2165430	dcd	deoxycytdi
STM3813	100	STY2474	STY3965	2305384	2305941	dsbE1	thiol:disulfic
STM1744	21.53	STY2454		2285515	2286540	yejE	putative_bi
STM3235	11	STY2374		2205062	2205880		putative_gr
STM2970	11.4	STY1975		1861658	1862539	htpX	heat_shock
STM3877	28.49	STY4380		4243770	4244126	rpsM	30S_ribosc
STM1927	45.23	STY4212		4078877	4079311	uspA	universal_s
STM2325	13.35	STY3522		3364558	3365058	sspB	stringent_s
STM3541	7.19	STY4191		4054908	4055837	kdgK	2-dehydro-
STM4482	63.16	STY4284		4158873	4160189	gntT	high-affinity
STM2546	20.31	STY4762		4620142	4620882	cysQ	cysQ_prote

STM1057	16.35	STY3360	3203384	3203965	conserved_
STM3523	43.05	STY2959	2834527	2835300 srlR	glucitol_op
STM3331	15.91	STY2416	2246976	2248217	putative_o
STM3226	62.1	STY3334	3178004	3178663 yghB	DedA-famil
STM2389	34.1	STY1712	1636450	1636698 ssal	putative_p
STM4343	40.59	STY0777	773502	775268 sdhA	succinate_
STM3560	10.96	STY0835	833899	834807	conserved_
STM3036	5.34				
STM4227	24.22	STY1214	1168942	1169346 flgC	putative_fl
STM2792	20.29	STY0826	823390	824679 bioA	adenosylm
STM3332	5.26	STY3512	3355140	3356243	conserved_
		STY4032	3894205	3894822 rmbA	conserved_
STM4376	24.93	STY3366	3208434	3209597	conserved_
STM3747	7.02	STY1716	1637973	1638755 sseF	putative_p
STM0346	40.68	STY0872	863334	863849 ompX	outer_merr
STM1320	14.85	STY4740	4602188	4602493 sgaB	putative_P
STM3793	9.29				
STM0257	35.2	STY0428	436395	437567 araJ	
STM1041	8.83		aSTY4883		
STM3626	29.5	STY0495	502837	503211 ybaV	putative_e
STM4355	28.74	STY0599	604191	604502	hypothetica
STM0555	41.85		STY0602;_	605550	605735
STM2764	27.32	STY0329	340209	340913	
STM0345	43.16		STY0375	386344	386673
STM0341	26.01	STY0377	388659	389402	hypothetica
STM2269	6.78	STY3106	2972804	2973349 syd	possible_tr
STM2647	26.96	STY4516	4406494	4406712	syd_proteir
STM0233	30.93		STY3799	3664919	3665116
STM1315	33.22	STY3999	3864845	3865132	hypothetica
STM2856	56.59	STY3314	3163093	3163341 hybG	putative_P
STM3587	23.17	STY1528	1484326	1484625	hydrogenas
STM3025	13.73		STY1540	1494534	1494911 marR
STM3058	34.48	STY3974	3841645	3841992 yidH	multiple_ar
STM1532	5.64	STY4048	3909336	3911417 recG	ATP-deper
STM2065	23.97	STY4177	4036993	4037184	putative_m
STM2006	18.48	STY3987	3852815	3853105 ilvN	acetohydro
STM3528	38.6				
STM0599	60.45	STY1757	1676481	1676873	conserved_
STM0250	86.49				
STM2702	60.3				
STM4478	54.01				
STM2223	48.44	STY3643	3501966	3502697	putative_m
STM0446	32.57	STY3487	3330734	3331027	conserved_
STM0503	18.69		STY2147;_	1996817	1996933
STM1997	60.74				hypothetica
STM1998	45.81				
STM1876	32.56				

STM3766	59.02					
PSLT023	84.1					
STM3972	26					
STM1811	38.24					
STM2432	9.28					
STM1473	39.88	aSTY2493				
STM1951	30.91	aSTY2581				
STM2354	69.25	aSTY2585				
STM0007	60.97	aSTY2710				
STM3331	19.21	STY2717	2549822	2551681	aegA	putative_o
STM0325	55.07					
STM0175	11.27	STY0205	213248	215839	staC	outer_merr
		STY0326	339076	339336		conserved_
		aSTY0587				
		STY1030	1020578	1020865		putative_ba
		STY1052	1034420	1035361		putative_ba
		STY2027	1900606	1901058		putative_ba
STM1787	2.59	STY0405	416740	419625		puative_au
STM2697	29.05	STY1019	1014493	1014693		prophage_
		STY1046	1028451	1029203		putative_pr
STM3577	4.51	STY2021	1895228	1895959		putative_ba
STM3027	47.69	STY3087	2952350	2953123	steC	periplasmic
		STY3285	3136204	3136707		putative_e
STM1365	24.17	STY0947	937728	937934		hypothetica
STM0118	14.86	STY1040	1025810	1026199		putative_pr
STM2194	24.35	STY1056	1036681	1037070		putative_ba
		STY2031	1903201	1903590		putative_ba
STM1026	3.21	STY3193	3058163	3059890		possible_in
STM0157	7.76	STY3347	3191038	3191730		putative_m
STM1869A	29.75	aSTY1042				
		STY1058	1037612	1038757		hypothetica
		STY1076	1051463	1052164		conserved_
STM1848	11.77	STY2050	1915387	1915941		hypothetica
STM3352	95	aSTY0064 STY3532	3373656	3375431	oadA	oxaloaceta
STM3484	37.71	STY3667	3519664	3520521		DNA_aden
STM1832	24.48	STY4854	4717653	4717928		hypothetica
STM0395	4.09	aSTY4403				
STM3499	9.55	STY4534	4421390	4421839		hypothetica
STM2219	12.62	STY4677	4539197	4539490		putative_m
STM1727	30.92	STY4830	4691653	4691880		hypothetica
STM2807	9.42		aSTY4870			
STM0625	13.98	STY4578	4456256	4456588		putative_m
STM1229	16.7	STY4595	4471619	4471978		conserved_
STM3484	36.41	STY4636	4502229	4503089		DNA_aden
STM1320	17.6	STY2419 STY4125;_STY4657;_	2249467	2249970	insB	insertion_e
		STY4674	4537567	4537710		hypothetica
		STY4579	4456592	4458097		putative_m
STM3624	14.49	STY3957	3827907	3828539	torD	TorD_prote
STM2580	12.32	STY3937	3800574	3801938	thdF	thiophene_
		STY3907	3769054	3769869	atpB	ATP_synth
STM0652	9.74	STY4080	3937522	3938331	waaZ	lipopolysac
STM0511	41.66	STY3492	3333472	3334284		possible_A

STM0769	53.68					
STM4007	17.15	STY3523	3365064	3365720	sspA stringent_s	
STM3577	10.55	STY3554	3397118	3398161	mreB rod_shape-	
STM0863	58.99	STY0688	683163	684374	dacA D-alanine_	
STM0012	11.01					
STM4534	10.33	STY0731	732380	732832	fur ferric_uptal	
STM4598	50.36	STY3954	3823363	3824057	torR	
STM1788	62.5	STY1526	1482984	1483712	hyaC2 Ni/Fe-hydr	
STM2273	10.38					
STM3485	10.89	STY3935	3798276	3799178	yidZ putative_Ly	
		STY3898	3757761	3759629	kup membrane	
		STY1779	1701377	1702600	rfc O-antigen_	
STM3110	13.06	STY0809	805177	806193	galE UDP-gluco	
STM2030	15.41	STY2235	2065245	2065823	cbiT precorrin-8	
		STY4081	3938430	3939575	waakK lipopolysac	
			STY0098;_	96050	97354	puatative_ε
		STY0160	165410	165601	yacG conserved_	
		STY0193	203598	204260	yadF carbonic_a	
STM4049	12.65	STY0233	244326	244712	yaeH conserved_	
STM0651	5.33	STY4392	4252698	4253822	conserved_	
STM1751	20.63	STY4337	4217086	4217397	conserved_	
STM3588	3.97	STY1251	1204119	1205423	ndh NADH_def	
STM1639	52.48	STY1868	1776009	1776539	putative_cy	
STM2532	14.61	STY1830	1748312	1749058	putative_ou	
STM1491	2.18	STY2329	2156864	2159023	wzc putative_ty	
STM0823	55.5	STY1254	1207090	1207347	putative_se	
		STY1859	1768322	1768648	conserved_	
STM3165	20.64	STY1828	1745871	1746728	putative_ox	
STM1828	41.59	STY2332	2161288	2162868	yegH putative_m	
STM2545	37.2	STY4949	4808327	4809013	lasT putative_RI	
STM2277	12.51					
STM4275	12.7	STY2321	2150560	2151681	gmd GDP-manr	
STM0185	4.46	STY2365	2196156	2197517	putative_pr	
STM4314	19.81					
STM2765	65.68	aSTY0329	STY0343	349946	350113	
STM0111	57.54					
		STY1082	1058924	1061032	conserved_	
STM3518	6.41	STY3748	3605821	3607221	udhA possible_p	
STM0518	53.3	STY3040	2908499	2909275	hyi putative_hy	
		STY2618	2451780	2452331	conserved_	
STM4125	39.57	STY2660	2497378	2498340	putative_tr	
STM2592	69.8					
STM2851	20.59	STY2771	2624292	2624723	ndk nucleoside	
STM2598	75.4					
STM4290	5.62	STY2751	2587671	2589248	guaA GMP_syntl	
STM3619	20.87	STY2790	2646961	2647455	yfhP conserved_	
STM1050	80.99					
STM3502	52.04	STY3812	3674986	3675684	cpxR two-compo	
STM2701	12.79					
STM2815	20.31	STY3036	2903746	2904954	possible_rr	
STM0615	2.14					
STM2163	33.79	STY2678	2512849	2513943	cysA sulphate_tr	

STM1576	17.02	STY2724	2561420	2562283	putative_m
STM2945	51.74	STY0971	964573	965531	sopD2
STM0006	37.83	STY1009	1005836	1007269	putative_io
STM2166	10.07	STY0993	987917	988720	smtA
STM3965	11.65	STY2161	2006277	2007263	putative_de
STM4344	15.56	STY2284	2110842	2111432	hisH
STM3356	18.61	STY2563	2399017	2400843	putative_sc
STM2465	26.46	STY2259	2086868	2087422	pduT
STM3960	11.55	STY1851	1762727	1763365	putative_pr
STM3338	25.55	STY1169	1131729	1133009	putative_tr
STM0201	11.99	STY1784	1705619	1706377	putative_ou
STM4275	43.09	STY0403	413263	415149	prpE
		STY1793	1713175	1715427	katE
STM3204	3.85	STY4712	4573578	4574732	yjeS
STM1473	36.28				
		aSTY2203			
STM2160	53.04	STY1730	1650681	1651409	putative_tr
STM3655	40.27	STY4734	4596823	4597146	yjfN
STM4419	26.06				
		STY2505	2337977	2338705	ubiG
STM3793	6.04				3-demethyl
STM1524	52.12	STY4876	4738848	4740219	
STM4205	48.89	STY2528	2362704	2363687	pmrF
STM0491	13.1	STY2562	2398326	2398925	putative_li
STM3770	44.74				putative_o
STM1269	15.31	STY1852	1763561	1764160	aroQ
STM4301	8.45				
STM4184	16.42	STY0400	409554	410441	prpB
STM3915	38.94	STY2842	2704254	2704673	yfiG
STM2545	13.53	STY0423	433360	434037	aroM
		STY4432	4303894	4304262	dgkA
STM2732	15.88	STY2577	2414041	2414592	conserved_
STM3925	21.25	STY2527	2361544	2362701	putative_li
STM4268	13.87	STY4422	4291293	4291703	putative_m
STM2015	47.94	STY1748	1667459	1668459	ynhG
STM0361	7.68	STY1483	1436331	1437176	N-hydroxy
STM1659	13.88	STY2491	2320085	2321146	ada
STM1239	16.99	STY3997	3863614	3864357	putative_G
STM1048	15.91	STY2823	2686149	2686529	acpS
		STY0187	196389	197183	speD
STM0353	17.37	STY2266	2092179	2092646	sbmC
STM0931	9.2	STY0168	172501	173064	ampD
STM0611	10.43	STY0179	186191	186982	probable_s
STM4024	3.67	STY1778	1698557	1700485	thrS
STM3288	3.8	STY0464	470077	471525	thiamine_b
STM2558	6.05	STY1645	1573199	1574581	putative_ar
STM4549	19	STY0541	548428	548907	conserved_
STM0702	7.96	STY0542	549108	549902	conserved_
STM0979	9.9	STY0638	639109	640065	fepB
STM0977	1.57	STY4814	4673101	4675956	valS
STM3824	48.91	STY4947	4806975	4807691	arcA
STM3152	38.12	STY3394	3238302	3239870	cheM
STM4369	10.73	STY4049	3911423	3912112	trmH

STM1663	11.28	STY1860	1768842	1769975	putative_m
STM3113	62.91	STY2657	2494155	2495411	xapB
STM2113	5.09	STY2890	2769449	2770564	iroB
STM2514	15.39				putative_gl
STM2621	100	STY1032	1021558	1021797	putative_de
STM2750	3.67				
STM1775	14.51	STY2835	2697638	2698375	yfiC
STM4098	28.73	STY3370	3212004	3213800	assT
STM1535	6.53	STY4223	4089228	4090295	putative_Hl
STM0952	19.75	STY4306	4185365	4185838	yrfB
STM2995	7.95	STY2690	2522798	2524075	hypothetica
STM1422	11.92	STY3010	2883533	2884630	spaS
STM2045	61.26	aSTY2701			secretory_f
		STY3815	3677512	3678264	yiiM
STM0051	37.22	STY0706	702239	703174	ybeK
STM3485	28.45	STY0748	750002	750208	ybfA
		STY3023	2896388	2896831	invH
STM4526	13.26	STY0600	604664	605260	fimW
STM4010	14.55	STY0817	812795	813613	ybhA
STM3586	42.93	STY0803	800092	800868	ABC_trans
STM3645	16.44	STY1091	1070003	1071055	ompA
STM1179	15.24	STY1216	1170083	1171294	flgE
STM3041	26.84	STY1901	1794933	1796015	prfA
STM4253	7.35	STY2137	1988269	1989690	otsA
STM1865	40.76	STY2207	2045298	2045459	hypothetica
STM3798	31.52	STY3909	3770215	3770685	atpF
STM2127	24.32	STY1687	1613874	1614281	gloA
STM0829	40.23	STY2160	2005588	2006256	yecS
STM0505	17.65	STY1389	1341794	1342570	putative_o
		STY2831	2693393	2694349	rseB
STM0369	12.5	STY0773	770734	772017	gltA
STM0703	10.22	STY1270	1226711	1228174	phoQ
STM2222	10.5	STY3710	3560084	3561373	purD
STM4146	5.5	STY3467	3309421	3312099	infB
STM2247	7.98	STY2246	2076210	2076884	pduD
STM1560	8.47	STY4793	4651177	4652829	treC
		STY1726	1644774	1646267	spiA
STM3767	11.03	STY1233	1187951	1188880	fabD
STM0575	43.26	STY1346	1305567	1305785	osmB
STM2441	10.38	STY3535	3376462	3377361	ttdA
		STY4073	3931552	3932349	waaP
STM2632	100				lipopolysac
STM2410	19.26	STY1180	1141409	1141864	csgB
STM4477	11.28	STY3580	3433640	3434341	ubiB
STM4220	16.56	STY2860	2730753	2731100	rplS
STM2297	21.79	STY3630	3486179	3487390	rffA
STM1793	10.69	STY3651	3507601	3507963	conserved_
STM2686	6	STY1220	1173625	1174728	flgl
STM2029	4.37	STY4319	4200791	4202164	cysG
STM2571	11.56	STY3143	3015066	3015941	lgt
STM2388	5.6	STY3389	3232006	3233751	dnaG
STM2253	16.81	STY0466	472360	473229	phnU

STM1569	70.5	STY3841	3700591	3701493	fdoH	formate_de
STM0662	57.17	STY0866	858539	859261	glnQ	glutamine_
STM3019	24.82	STY3578	3430203	3431366	fadA	small_(beta
STM0286	12.61	STY2123	1975243	1976394	flhB	flagellar_bi
STM3628	9	STY0998	997638	998186		putative_e
STM0101	73.57	STY4119	3983434	3984129	yiaS	putative_su
		STY0197	206675	207898	yadE	conserved_
STM0402	23.5	STY0653	654566	655129	ahpC	alkyl_hydr
STM2191	60.19	STY3155	3027580	3028608	galR	galactose_
STM4040	34.28	STY3837	3695190	3696221		putative_lip
STM2864	28.36	STY2101	1953830	1954615	yebI	high-affinity
STM0820	2.29	STY1504	1460668	1463196		putative_hy
STM1763	75.41	STY1487	1439583	1441127	narY	respiratory_
STM1761	69.49	STY1485	1438211	1438891	narV	respiratory_
STM0103	9.41	STY0370	379568	380893	stbD	putative_fir
STM0812	3.28	STY1312	1271381	1272841	cls	cardiolipin_
STM2404	11.44	STY1928	1820401	1821315		conserved_
STM0192	21.22	STY1978	1865584	1866168		conserved_
STM3750	8.55	STY2099	1952055	1953014	yebL	high-affinity
STM1260	12.48	STY1401	1352710	1353741		putative_m
STM3766	58.42		530792	531715		conserved_
STM4307	20.16	STY0661	661366	662133		molybdopte
STM3773	15.88					
STM1340	39.07	STY0635	635695	636684	fepG	ferric_enter
STM0344	25.3	STY0374	385465	386199		possible_tr
STM0058	47.18	STY0673	671331	672356	citC	[citrate_(pr
STM0741	59.88	STY1921	1813551	1814687	appB	probable_c
STM0816	18.77					
STM4460	4.58	STY2094	1945307	1946782	zwf	glucose_6-
STM2589	14.6					
STM4054	38.34					
STM2851	4.03	STY2878	2758027	2759190		putative_ty
		STY3227	3093928	3095091	pgk	phosphogly
STM0482	17.23	STY0448	457903	458595		putative_de
STM1626	38.47	STY3325	3170215	3171858		
STM2750	44.41	STY2953	2831196	2831759	srlA	PTS_syste
STM3674	17.49		302488	303120		hypothetica
STM2197	27.52	STY4887	4750276	4750578		hypothetica
STM2356	21.71	STY3118	2987054	2987476	fucU	fucose_or
STM0256	5					
STM1170	7.12	STY0419	430757	431566	proC	pyrroline-5-
		STY0481	485502	486392	cyoE	cytochrome
STM4328	14.36	STY3145	3018413	3018943		conserved_
STM4413	30.94	STY4784	4642545	4643678		hypothetica
STM3242	36.03	STY1558	1510106	1510432		putative_m
STM3014	25.04	STY3649	3506373	3507260	ilvY	LysR-famil
STM3315	52.07	STY2960	2835293	2836258	gutQ	putative_ph
STM3541	22.05					
STM3983	6.27		392297	392812		
STM0793	24.59	STY2949	2827136	2827636	oraA	putative_re
STM3011	60.48	STY2425	2254472	2255494	galS	mgl_repres

STM0834	3.77	STY2463	2293861	2294868	yejK	nucleoid-as
STM1359	5.98	STY2369	2199596	2200495		
STM2815	6.65	STY2402	2234412	2235848	yohG	putative_lip
STM3858	52.02	STY2439	2269939	2271627	fruA	PTS_syste
STM2421	13.85	STY2371	2201854	2203125		putative_nu
STM3275	13.38	STY2405	2237354	2238547		putative_n-
STM1656	17.82	STY4127	3990189	3990662	yiaM	putative_m
STM0916	32.29	STY0926	917067	917390		conserved_
STM0351	12.09	STY4726	4589954	4590685	yjFH	probable_tl
STM1255	22.28	STY4347	4225631	4226017	yheN	conserved_
STM0994	8.62	STY4719	4581304	4582584	hflX	HflX_protei
STM1937	26.18	STY3460	3300598	3301842		probable_a
STM2894	17.01	STY4930	4792824	4793150	trpR	probable_tl
STM1322	18.47	STY2946	2821885	2822451		conserved_
STM1595	14.77	STY2449	2278912	2279631		putative_m
STM1799	22.49	STY3267	3126548	3127633	mltC	membrane
STM1901	8.02		3084875	3085423		conserved_
STM4120	8.39	STY0797	794269	795312	nadA	quinolinate
STM2648	4.7	STYrarB	850960	853104	dinG	
STM4119	3.86	STY3198	3064471	3066240	recJ	single-strar
STM2129	20.2	STY3450	3293511	3294086		possible_lip
STM2120	18.13	STY0840	837455	837907	moaE	molybdopte
STM0670	8.43	STY0891	885863	887188	yliG	conserved_
STM2316	6.53	STY1737	1656231	1657253	ttrC	tetrathionat
STM3827	20.61	STY3411	3254997	3255296		conserved_
STM1959	35.89					
STM3200	12.23	STY3231	3097596	3098270		putative_m
STM4114	9.68	STY0882	873680	876112	ybiW	putative_fo
STM4472	25.49	STY0410	424239	424547		putative_m
STM3308	25.87	STY0488	493149	493466	bolA	BolA_prote
STM3742	2.98					
STM0577	29.3					
STM2557	41.45					
STM4128	27.38					
STM2170	20.33	STY4683	4545555	4545920	cutA	periplasmic
STM2316	18.8	STY4700	4558972	4559331	frdD	fumarate_r
STM2392	8.73	STY3022	2895282	2895932	invF	possible_A
STM4126	9.04	STY1905	1798246	1799097	ipk	isopentenyl
STM0737	28.53	STY4614	4486244	4486630		phage_bas
STM1769	23.04	STY2319	2149116	2149595	wcaH	putative_O
		STY4198	4063955	4064311		phage-like_
		STY3482	3327024	3327281	rpmA	50S_ribosc
STM1264	16.97	STY3266	3126160	3126435		conserved_
STM1655	8.8	STY3208	3073310	3074149		hypothetica
STM1378	47.67	STY2096	1948117	1949559	pykA	pyruvate_k
STM3693	33.14	STY1425	1376739	1377062		putative_se
STM3362	61	STY3542	3382461	3382724		conserved_
PSLT096	12.2	STY2264	2090422	2090757		conserved_
		STY0320	330849	331295		hypothetica
STM4492	29.42	STY2662	2499389	2499616	ypeB	conserved_
STM2137	6.14					

STM0525	58.64	STY2730		2566467	2567660	conserved_
STM4396	24.22	STY2763a		2615397	2615618	conserved_
STM2774	26.87	STY2611		2447067	2447342	conserved_
STM3625	30.21	STY2638		2473697	2473939	conserved_
STM2947	30.75	STY1282		1237255	1237485	chaB
STM3582	7.47	STY0686		682051	682626	lipB
STM1075	20.35	STY0726		726976	727308	putative_lip
STM0591	12.06	STY2596		2432374	2433642	folC
STM4410	12.86					folylpolyglu
STM0496	34.3					
STM0820	23.95					
STM2984	14.41					
STM2536	11.66					
STM4231	39.06					
STM3035	22.65					
STM2435	54.88					
STM3391	73.25	STY0519		522109	525253	acrB
STM3766	56.14		aSTY0523			acriflavin_r
STM2007	48.99					
STM2136	38.43	STY0602a		605710	606051	
STM2777	55.53	aSTY0628				
STM0061	67.02	aSTY0670				
		STY1498		1455055	1455972	hlyE
		STY1604		1544282	1546051	hypothetica
		STY1620		1556086	1557039	hypothetica
STM1049	18.9	STY1637	STY1642	1568680	1569705	bacteriophage
STM1820	3.69	STY2004		1883242	1885221	yjcS
		STY2035		1904911	1905852	putative_hy
STM0671	24.72	STY1614		1549845	1550390	hypothetica
		STY1630		1563846	1564730	hypothetica
		STY1886		1785388	1786197	cdtB
STM4202	6.66	STY1070	aSTY2016	1046621	1047820	putative_to
		STY2046		1913483	1913785	hypothetica
STM2625	60.6	STY2062		1922526	1923272	putative_DI
STM2995	29.29	STY1624		1558296	1558550	hypothetica
STM2053	8.9	STY1665		1593370	1595391	putative_N.
STM3174	13.59	aSTY1071	STY2015	1891515	1892195	putative_ba
STM0713	8.43	STY2040	aSTY1047	1909704	1911170	putative_ba
		STY2056	HCM1.194,_HCM1.24'	1917993	1919210	putative_tra
		STY2072		1927122	1927397	racC
STM2123	7.92	STY1742		1662657	1663319	putative_ba
		STY2017		1893392	1893745	putative_ba
STM1336	14.31	STY2033		1904128	1904535	putative_ba
STM2086	43.47	STY3278		3134156	3134344	hypothetica
STM2633	19.8	STY2074		1930637	1931689	conserved_
STM4522	14.1	STY2352		2189768	2190217	hypothetica
STM4552	6.88	STY4599		4473973	4474350	hypothetica
STM2347	36.83	aSTY4639				
		STY4546		4430822	4431907	pilR
STM2360	14.99	STY4565		4445457	4445696	putative_m
		STY4583		4459393	4460640	conserved_

STM4415	27.6	STY4600	4474437	4474655	putative_pc
STM4262	37.56	STY4834	4694997	4695146	hypothetica
STM2342	11.47	STY4922	4782631	4783116	yafM conserved_
STM3812	30.1	STY4480	4366676	4367188	cytochrome
		STY4543	4427237	4428532	pilO putative_pi
STM1963	3.66	STY4756	4613286	4614674	putative_e
STM2769	93.2	STY4835	4695457	4696511	
STM4230	30.74	STY0194	204369	205295	yadG hypothetica
		STY0252	264665	265813	lpxB lipid-A-disa
STM2445	23.52	STY1550	1502840	1503586	putative_o
STM3177	56.29	STY4491	4378837	4379550	pmrA two-compo
STM4174	21.39	STY2633	2467198	2468445	pgtA phosphogly
STM3478	13.39	STY3906	3768665	3769045	atpI ATP_synth
STM0449	30.76	STY3565	3409864	3410160	fis Fis_DNA-b
STM2034	17.9	STY2239	2068041	2069000	cbiB CbiB_prote
STM3274	18.87	STY2221	2055871	2056416	cobU cobinamide
STM0621	64.9	STY0070	70876	72396	citF2 citrate_lyas
STM2461	10.17	STY3484	3327871	3328842	ispB octaprenyl-
STM1478	14.12				
STM1187	42.41	STY0110	109129	109788	rluA ribosomal_
STM3064	2.62	STY0175	179387	182050	aceE pyruvate_d
STM3865	12.25				
STM0208	7.47	STY0230	239853	241370	dgt deoxyguan
STM2597	20.96	STY0265	278825	279247	yaeJ putative_re
STM4519	51.34		1490098	1491225	putative_al
STM3391	6.62	STY0699	693874	696456	leuS leucyl-tRN/
STM3216	10.21				
		STY0756	757169	757735	probable_[]
		STY4905	4766926	4767162	conserved_
STM0598	17.92	STY4620	4489020	4489490	nucD2 putative_ly:
STM2374	43.55				
STM2928	4.57	STY4914	4773475	4774548	conserved_
STM0175	50.79	STY4941	4801127	4803660	sthC
STM2767	14.34				
STM2043	56.66				
STM2299	9.09				
STM2191	5.7	STY4690	4551605	4553251	groEL GroEL_pro
STM3277	38.37	STY0357	366107	366847	yafK putative_e
STM0921	68.5				
		STY1102	1079407	1079724	conserved_
STM3190	16.73	STY1157	1116598	1117236	putative_tra
STM3302	12.12	STY1194	1155136	1155711	putative_e
STM2533	24.18	STY1245	1200068	1200427	putative_pr
STM0792	47.56	STY1104	1081208	1081755	
STM2556	42.91	STY4397	4256233	4256490	yrdB conserved_
STM1679	39.44	STY4342	4222304	4222504	yheV conserved_
STM0190	8.04	STY4303	4181390	4183966	mrcA penicillin-bi
STM3801	52.15	STY4270	4134413	4135753	gntU low-affinity_
STM1499	60.72	STY0962	955837	958281	dmsA anaerobic_
STM3208	9.27	STY3865	3721752	3722360	hypothetica
STM4189	10.66	STY3795	3659355	3660398	putative_AI

STM3066	13.15				
STM2562	26.68	STY2981		2856596	2858674 fhIA transcriptio
			STY3042	2910026	2910700
STM3529	48.36	STY3759		3619808	3620911 gldA glycerol_de
STM0734	18.64	STY2972		2848511	2849434 hycD formate_hy
STM0652	13.45		STY3032;_	2900260	2900586 hypothetica
STM3771	10.96				
STM2414	26.85	STY2652		2489963	2490325 yfeC conserved_
STM1766	20.68	STY2718		2551867	2553567 narQ nitrate/nitrit
STM2614	97.9				
STM1712	12.26	STY3785		3651108	3652208 glpX putative_gl
STM3858	47.13				
STM4455	15.49	STY4486		4374136	4374600 phnO putative_ac
STM0029	15.55				
STM1913	14.04	STY2658		2495466	2496299 xapA xanthosine
STM0848	19.37	STY1862		1770641	1771438 putative_Al
STM0600	8.18	STY1588		1534318	1535760 pntB pyridine_nu
STM2515	10.7		aSTY2756		
STM0545	48.06	STY0025		25116	25802 bcfB fimbrial_ch
STM2668	13.07	STY4729		4592158	4592841 yjfk conserved_
STM4446	3.75	STY4768		4625159	4626892 ytfM putative_e)
STM0739	9.31	STY4775		4635777	4637150 mpl murein_pej
STM2290	24.13	STY2501		2335636	2336961
STM3773	3.1				
STM0866	49.56	STY4874		4735982	4737223 putative_su
STM3545	9.72	STY1170		1133023	1134126 putative_o)
STM0775	16.47	STY1777		1698011	1698553 infC translation_
STM0400	41.83	STY2587		2422315	2423640 putative_ar
STM0849	6.15	STY1865		1773208	1774842 putative_su
STM2689	14.4				
STM0567	13.64	STY1190		1151067	1151441 msyB acidic_prot
STM4581	15.28	STY1835		1755011	1755538 conserved_
STM0011	7.81	STY1695		1621347	1622495 cfa cyclopropa
		STY1198		1156697	1157815 solA putative_sa
STM3598	16.14	STY1820		1740439	1741455 ansA L-Asparagi
PSLT011	38.91	STY3883		3740516	3741139 dsbA thiol:disulfic
STM4410	28.06	STY1802		1721748	1722089 osmE osmotically
STM2586	50.18				
		STY1673		1601969	1603243 tyrS tyrosyl-tRN
STM2984	52.47	STY1750		1669043	1670263 putative_ar
STM3593	12.84	STY1209		1165319	1166812 mviN virulence_f
STM1494	21.73	STY1704		1629358	1629735 ssaO putative_ty
		STY3905		3767428	3768051 gidB glucose_inl
STM0973	43.58	STY2839		2701506	2701889 yfiD conserved_
STM1210	6.93	STY0261		276262	277554 mesJ cell_cycle_
STM1806	5.26	STY0439		448389	450206 malZ maltodextri
STM1771	15.17	STY4406		4274669	4276300 yjbB putative_m
STM0493	3.45	STY4471		4356633	4358282 Sodium:sol
STM3594	9.49	STY1808		1725993	1727336 astB succinylarg
STM4230	5.95	STY1765		1687672	1689114 conserved_
STM0646	10.96	STY1683		1610761	1611657 putative_o)
STM2525	9.79				

STM3922	28.18	STY2307	2135484	2136569	rfbB	dTDP-gluc
STM3002	11.33	STY2817	2680666	2681559		putative_ph
STM3738	40.95	STY0227	237617	238240	yadS	putative_m
STM1353	58.8	STY0086	89287	90228	fixB	FixB_prote
STM3594	16.49	STY0169	173061	173915	ampE	AmpE_proi
STM0760	5.69	STY4190	4053367	4054854	yhjJ	putative_zii
STM2837	43.88	STY4280	4150139	4150897	glpR	glycerol-3-ph
STM0158	6.17	STY2535	2369264	2370631	menE	O-succinyl
STM1303	14.25	STY2765	2617298	2618476		putative_lip
STM1642	14.96		4191069	4191905		hypothetica
STM4205	71.77	STY0606	459365	459691		bactoprenc
STM1646	18.02	STY4924	608393	609319	gtrB	putative_m
STM2843	47.51	STY4132	4784257	4784910	smf	putative_el
STM3522	8.44	STY4199	3994378	3994851		putative_m
STM3961	12.82	STY4302	4064592	4066181		putative_Ni
STM2274	24.82	STY2520	4180698	4181294	yrfE	putative_tr
STM3747	11.73	STY2738	2354466	2355755		uracil_pern
STM3242	39.41	STY2567	2574372	2575661	uraA	acetate_kir
STM2625	100	STY1023	2402961	2404163	ackA	putative_DI
STM4466	23.38	STY0580	1017163	1017912		carbamate,
STM2119	17.05	STY4766	588325	589218	arcC	putative_m
STM1538	21.04		4622761	4624140	ytfL	
		STY3356	3200413	3200993		
STM2730	38.76	STY4312	4191069	4191905	dam	DNA_aden
STM3685	21.71	STY2442	2272582	2273712	fruB	pts_system
STM2808	11.17	STY2507	2341458	2342588	nrdB	ribonucleos
		STY2693	2525882	2526541	eutL	ethanolami
STM3241	18.38	STY3790	3655255	3656019		putative_rit
		STY0733	733795	734088	ybfE	conserved_
STM1654	8.14	STY1882	1783564	1784085	envE	putative_lip
STM0802	9.62	STY3009	2882898	2883395	spaT	unknown_f
STM2187	6.68	STY3884	3741156	3742142	yihE	conserved_
STM2459	18.67	STY0893	887419	887802		conserved_
STM2383	9.04	STY4333	4214765	4215634	prkB	phosphorib
STM0516	44.74	STY4404	4269601	4270425	iclR	acetate_op
STM3165	35.72	STY1388	1340834	1341703		putative_o
STM0960	8.7	STY4382	4244566	4245186	rpsD	30S_ribosc
STM3222	28.78	STY2414	2245810	2246529	sanA	vancomycii
STM0498	8.85	STY1320	1277897	1278775		conserved_
STM4304	5.87	STY3712	3562701	3564098	hydH	two-compo
STM2506	58.62	STY2746	2584818	2585078		hypothetica
STM2432	28.88	STY3144	3016154	3018400	ptsP	phosphoen
STM2890	42.83		aSTY3013; STY3014			
STM4305	5.65	STY2271	2095447	2097723	phsA	thiosulfate
STM2040	17.89	STY3544	3383154	3383426		conserved
STM0847	7.1	STY0016	16499	17032		conserved
STM3941	27.59	STY0609	610081	610326		possible cc
STM3201	22.63	STY0056	56686	57186	lspA	lipoprotein
		STY0755	756978	757109		hypothetica
STM1635	13.79	STY1398	1350926	1351264		hypothetica
STM4017	65.92	STY3860	3716708	3718090	yihP	putative me
STM0054	4.43	STY2649	2484329	2485570	mntH	manganese

STM3882	23.14	STY2422	2251323	2252841	mgIA	
STM1542	2.23	STY1758	1676888	1679944		conserved
STM1578	75.7	STY1289	1247824	1249359	narH	respiratory
STM2563	10.69	STY1926	1818871	1819605		conserved
STM1817	11.01	STY3165	3037910	3038773		possible re
STM3827	41.55	STY3100	2968776	2970134	ygCZ	probable gl
STM0421	23.95	STY3151	3021796	3022836		possible ox
STM3058	6.64	STY3576	3426483	3427814	pepQ	proline dipe
STM4326	10.04	STY4271	4136176	4137282	asd	aspartate-s
STM2831	9.74	STY0107	104274	105560	surA	survival prc
STM2097	28.84	STY3633	3488883	3489950	rffG	UDP-N-ace
STM4437	7.15	STY3654	3511753	3512682	ilvE	branched-c
STM2098	59.01	STY1298	1256963	1257871	galU	glucose-1- μ
STM2384	1.94	STY3732	3581277	3585337	rpoB	DNA-direct
STM1787	33.22	STY1937	1830754	1831095		conserved
STM0337	7.27	STY0120	121005	122714	araB	L-ribulokin
STM0850	38.54	STY1305	1266224	1267144	oppB	oligopeptid
		STY2396	2226756	2229053	bgIX	periplasmic
STM4098	39.95	aSTY3579				
STM0028	15.23	STY0641	643182	644039	entB	isochorism
		STY1341	1301795	1302559	pgpB	phosphatid
STM3504	14.65	STY1295	1254184	1254642		
STM4456	25.26					
STM1150	29.16	STY1442	1394233	1395858		putative ex
STM3152	39.66	STY1408	1358082	1359236		putative ch
STM0294	9.44	STY1392	1343754	1345052		hypothetica
STM0975	11.63	STY0534	540899	541870	aes	acetyl ester
STM0060	61.57	STY0671	670133	671041	citE	citrate lyas
STM0149	53.35	STY4043	3900832	3902214	yicJ	sodium:gal
		STY1484	1437212	1438150		conserved
STM3492	10.23	STY1334	1291577	1292623		putative pro
STM2035	11.26	STY1457	1407487	1408155		putative lip
STM1594	14.63	STY1502	1457973	1458758		putative se
STM0747	7.85		1424467	1425666	srfA	putative vir
STM2372	17.08	STY1445	1397817	1398335	aac	aminoglyccc
STM1801	6.26	STY2089	1941304	1942482	purT	phosphorib
STM2554	5.1	STY1351	1311666	1312586		conserved
STM1781	4.86	STY1343	1303024	1304193		conserved
STM3571	14.85	STY2864	2733112	2734473	ffh	signal reco
STM1043	19.51	STY3179	3050045	3050581		outer mem
STM1542	34.37					
STM2565	14.79	STY0472	478436	479026	thiJ	4-methyl-5i
STM3962	47.37	STY0499	506380	507198		conserved
STM4325	21.09					
STM4467	24.28	STY3206	3071359	3071670		conserved
STM2206	12.87	STY4111	3970915	3972831	mtIA	mannitol-s μ
STM0889	16.63	STY4007	3869661	3870046		
STM3853	7.21	STY3116	2983758	2985488	fucl	L-fuculose
STM1520	7.89	STY3172	3042198	3042956		hypothetica
STM0494	5.38	STY3313	3161965	3163017		possible Af
STM1796	51.42	STY4200	4066194	4067843	treF	cytoplasmic
STM4004	15.97	STY3257	3118798	3119934		possible ox

STM0151	37.74	STY4103	3960797	3961573	lctR	putative L-l
STM3253	20.32	STY4003	3868106	3868966		
STM2667	4.4	STY2855	2725258	2726166		conserved
STM1390	52.83	STY2390	2221950	2222681	yehV	putative tra
STM0293	3.7	STY2291	2117712	2119142	rfbP	undecaprei
STM3399	20.05	STY2327	2155436	2155924	wcaB	putative ac
STM4324	12.5	STY2400	2232941	2233537	yohD	putative me
STM0025	14.22	STY4393	4253794	4254267	smg	conserved
STM1677	36.96	STY4196	4061817	4062719	yhjC	hypothetica
		STY1941	1832021	1832482		conserved
STM2370	16.98	STY4156	4014615	4015589	viaE	putative 2-l
STM3506	11.56	STY4262	4126290	4127261		putative me
STM3493	20.65	STY3505	3343409	3344137	mtgA	monofuncti
STM2253	17.12	STY4818	4679542	4680624		putative inr
STM3583	9.53	STY4681	4543264	4543839	yjdC	putative tra
STM4438	23.16	STY3488	3331176	3331472		possible ar
STM3905	29.79	STY3427	3268890	3269879	tdcB	catabolic th
STM1536	48.16	STY3317	3164184	3164678	hybD	hydrogenas
STM2171	24.41	STY2956	2833113	2833892	srlD	sorbitol-6-p
STM0903	30.49					
PSLT061	14.16		STY2429	2258645	2259034	putative DN
STM3788	50.97	STY2432	2261543	2262865		
STM3343	14.89					
STM1326	27.89	STY2441	2271644	2272582	fruK	1-phosphol
		STY4394	4254294	4254836	yrdD	conserved
STM0796	8.68	STY4364	4236359	4237060	rpsC	30S riboso
PSLT105	72.4	STY3182	3051388	3051786		hypothetica
STM2403	11.61	STY0907	900194	900916	nfsA	oxygen-ins
STM1975	7.07	STY3377	3217282	3217902		putative me
STM3016	46.26	STY3244	3109024	3110418	galP	galactose-p
STM2683	21.82	STY1101	1078946	1079362		conserved
STM4232	18.64	STY0838	836730	837215	moaC	molybdenu
STM1745	38.29	STY0889	883938	884858	yliC	hypothetica
STM0194	3.84	STY1121	1088687	1090372	sigD	cell invasio
STM3159	19.12	STY0791	788215	788907	tolQ	TolQ protei
STM3704	12.28	STY0827	824766	825806	bioB	biotin synth
STM0736	8.01	STY0880	871266	872531		conserved
STM2479	65.51	STY3511	3353514	3354932	gltD	glutamate :
STM2513	6.43	STY4030	3891261	3894130	misL	
STM3321	41.87	STY2853	2723548	2723886	yfiA	putative sig
		STY2619	2452380	2452865		phosphohis
STM1695	25.94	STY4436	4306612	4306824		conserved
		STY4383	4245212	4246201	rpoA	DNA-direct
STM3630	48.84	STY1369	1324462	1326111	sapA	peptide trai
STM2561	70.32	STY0506	513385	513723	glnK	nitrogen re
STM4359	25.65	STY3832	3691934	3692500		putative DN
		STY0761	761332	762465		galactosyltr
STM0651	54.92	STY3739a	3591183	3591356		hypothetica
STM2393	19.57					
STM2629	99.2					
STM0559	67.5					

aSTY4627 aSTY3675

STM3905	39.82	STY2088		1940883	1941173	yebG	conserved
STM2714	53.33						
STM0925	26.05						
STM0435	30.85	STY3782		3648077	3648316	yiiU	conserved
		STY3056		2921045	2921356		conserved
STM1377	75.81	STY1746		1667153	1667392	lppB	major outer
STM4377	29.13	STY1756		1676194	1676421		conserved
STM4116	30.8		STY1675	1604160	1604414	ydhA	putative lipi
STM1241	64.1	STY1077		1052477	1052755		conserved
STM4243	25.48	STY2701		2535026	2535715	eutN	putative etf
STM3664	25.76	STY0182		191791	192153		conserved
STM0520	30.41		STY4408	4277151	4277252		hypothetica
STM1422	18.5	STY1988		1875015	1875410		conserved
STM1185	16.73	STY1962		1852881	1853339		putative me
STM3043	28.13	STY2081		1935179	1935559		putative ca
STM4477	20.51	STY1043		1027078	1027617		putative se
STM1139	46.25	STY2135		1987711	1987827		hypothetica
PSLT021	99.02						
STM3051	4.26						
PSLT059	92.25						
STM0718	27.36						
STM2875	15.88						
STM1124	38.17						
STM3012	7.65						
STM1411	11.86						
STM0863	51.78	aSTY0688					
STM0655	62.4						
STM1792	60.1	aSTY0786					
STM0914	67.85						
STM4116	38.02						
STM4146	40.68	aSTY2839					
		STY3071		2932897	2935104		conserved
		STY2060		1921304	1921726		hypothetica
STM3256	13.12	STY2076		1932235	1932516		putative ex
STM3938	4.44	STY3677	aSTY4625	3530722	3531780		major caps
STM3548	22.28	STY3693		3540251	3540691		conserved
		STY3949		3817167	3818306		hypothetica
STM1835	6.48	STY3344		3187993	3189417		putative me
STM4453	23.68	STY3663		3518551	3518775		hypothetica
STM0256	10.8	STY3679		3532467	3532994		putative ca
STM4533	6.87	aSTY2888 aSTY3696					
STM3545	5.87	STY4036		3896540	3897523		putative DN
STM1542	32.26	STY1555		1507896	1508759	rspB	starvation s
STM0370	13.05	STY3645		3503465	3503893		hypothetica
STM1202	7.4	STY3673		3526151	3526891		hypothetica
STM1970	8.33	STY3689	aSTY4613	3536669	3537577		phage base
STM0545	31.34	STY3919		3781269	3781967	stgB	fimbrial cha
STM3650	15.8	STY0300		314246	314647		hypothetica

		STY0346		352525	353100	tcfB	putative fir
STM2811	2.26	STY3675	aSTY4627	3527963	3529729		terminase,
STM0038	7.84	STY2882	STY3702	2761219	2762319		putative ba
STM1192	11.86	STY3069		2930385	2930987		hypothetica
STM2188	8.46	STY0306		319019	319768		putative me
STM4325	4.26	STY0348		355919	356998	tcfD	putative fir
STM3051	8.06	STY1016		1012638	1013318	exo	exonucleas
		aSTY4142					
STM3523	16.69	STY4412		4279074	4279832		deoR famil
		STY4547		4431907	4432542	pilS	prepilin
		STY4823		4686254	4687327		protein kin
STM2922	24.85	STY4843		4702910	4703260		putative ge
STM0698	10.2	STY4143		4006109	4007020	glyQ	glycine-tRN
STM0740	13.57	STY4588		4465327	4465707		hypothetica
STM4258	10.28	STY4207		4072647	4073138		putative me
STM2105	21.17	STY4512		4404478	4404861		hypothetica
STM0309	22.31	STY4667		4530221	4530514		hypothetica
STM3218	33.31	STY4810		4670244	4670399		hypothetica
STM3639	21.77	STY4837		4697576	4698328	sefB	fimbrial cha
STM1189	23.77	STY3551		3394908	3395510	yhdE	conserved
STM0655	49.14						
STM2106	9.06	STY0729		729838	731241		conserved
STM3644	10.66	STY3956		3825362	3827914	torA	trimethylar
STM4052	56.88						
STM0511	34.81	STY2223		2057930	2058745	cbiO	putative co
STM2281	10.81	STY3944		3811353	3812261		putative Ly
STM2862	8.96	STY3926		3789843	3790883	pstS	periplasmic
STM2283	42.61	STY3995		3861225	3862616	uhpT	hexosepho
STM4418	7.08		STY0089	91996	93159	yaaU	putative me
STM3807	13.64	STY0149		152557	154032	murC	UDP-N-ace
STM0091	29.99	STY0185		194599	195582		PdxA-like p
STM0084	7	STY0140		141821	142762	yabC	conserved
STM2894	25.89	STY3525		3366425	3366853	rplM	50S riboso
STM4290	5.56	STY3560		3404179	3405528	accC	biotin carb
STM2073	11.87	STY0695		690526	691620	cobD	putative an
STM2354	13.35	STY0710		705590	706516	ybeJ	ABC transp
STM0242	8.24	STY0736		735744	737384	pgm	phosphogl
		STY0250		263418	263873	fabZ	(3R)-hydro
STM4092	53.09	STY1552		1504583	1504786		conserved
STM1752	60.39	STY2308		2136946	2137839	galF	UTP-gluc
STM0456	8.53	STY2338		2170454	2171806	yegD	conserved
STM3165	49.24	STY0276		292894	293697	yafB	hypothetica
STM0176	21.69	STY0335		342869	343609	safB	periplasmic
STM3887	48.34	STY2342		2179688	2181100	yegB	putative tra
STM0843	10.66	STY4624		4490490	4491140		putative ph
STM2834	46.19						
STM0722	7.57						
STM2559	11.86	STY2915		2798046	2798495	ygaU	
STM1591	5.69		STY1131	1096182	1097489	hpaB	4-hydroxyp
PSLT075	4.63						
			aSTY2906				
STM2761	22.13						

STM1528	44.46	STY4379	4243507	4243623	rpmJ	50S riboso
STM4438	17.22	STY4331	4213325	4213957	crp	cyclic AMP
STM0194	6.4	STY4297	4174408	4176117	yhgE	putative me
		STY1126	1091094	1092563	pipD	putative se
STM1887	9.86	STY1163	1125366	1126247		putative tra
STM2972	31.28	STY1199	1157928	1158185		conserved
STM0417	20.51	STY1247	1200818	1201456		putative lipi
STM3785	11.26	STY1893	1789728	1790852		putative ba
STM0074	13.48	STY1838	1755842	1756288		putative me
		STY0980	975505	976188	cmk	cytidylate k
STM2597	68.01					
STM0644	3.3					
		STY4441	4310667	4311650	qor	quinone ox
		STY4481	4367185	4367805	nrfG	NrfG protei
STM4427	14.15	STY3053	2918791	2919840		conserved
PSLT108	12.01	STY4419	4287685	4288323		putative lipi
STM4125	42.22	STY4468	4354511	4355398		lysR family
STM0965	59.75	STY4506	4399438	4400061	dmsB	
STM1197	38.51	STY2609	2443641	2444855	fabB	3-oxoacyl-[
STM1450	38.21	STY2672	2508373	2509239	pdxK	pyridoxine
STM1044	60.02					
STM1108	13.77	STY3843	3702122	3703051	fdhE	FdhE prote
STM1717	4.5					
		STY4431	4301303	4303723	plsB	glycerol-3- μ
STM3367	30.17	STY3037	2905042	2905974		possible Ly
STM4496	23.96	STY3078	2942228	2943025		Similar to h
STM1991	6.5					
STM3528	11.05	STY1798	1718435	1719277	celD	putative ce
STM2338	25.94	STY2702	2535756	2536772	eutD	putative ph
STM0912	4.16	STY1272	1228972	1230342	purB	adenylosuc
STM2214	9.99	STY1690	1615756	1616610		putative se
			STY2175	2019141	2019494	putative ex
STM2144	16.02	STY2482	2311246	2311695	napB	cytochrome
STM3767	53.95	STY4786	4644777	4645517		hypothetica
STM1458	12.41	STY2551	2385388	2385930	nuoI	NADH deh;
STM3949	13.02	STY2578	2414648	2415292		putative glu
		STY2163	2008364	2008915	fliZ	FliZ protein
STM3028	25.63					
STM3591	45.86	STY2136	1987824	1988219	yecG	conserved
STM0603	7.15	STY1807	1725032	1726000	astE	succinylglu
STM2914	7.15	STY1674	1603370	1604026	pdxH	pyridoxami
STM4070	12.44	STY3807	3670095	3670850	cdh	CDP-diglyc
STM2864	49.48	STY2985	2860994	2861854	sitC	Iron transp
STM3592	41.24	STY1670	1599005	1600510		putative pro
STM3757	3.03		STY2755	2592456	2597379	shdA
		STY1764	1687445	1687636		conserved
STM2533	7.93	STY1668	1597077	1597769	ydqQ	conserved
STM3886	52.22	STY1692	1617786	1618811	purR	purine nucl
STM4230	17.3	STY1752	1671506	1672252		putative AE
STM2870	48.5		STY2990; ;	2865811	2866482	orgAb
STM3027	6.64	STY1688	1614382	1615029	rnt	ribonucleas

STM1483	27.41	STY1585	1532330	1532692	putative co
STM2088	8.61				
STM2982	19.58	STY3979	3845856	3846779	dsdC
STM2028	17.82	STY2840	2702208	2702897	ung
STM0702	40.54	STY0432	442289	442978	phoB
STM0510	30.91	STY0272	283821	284636	yaeC
STM2128	18.3	STY0117	118231	118650	
STM3983	23.97	STY0080	81542	82327	caiD
STM1767	12.85	STY2158	2003884	2004660	sdiA
STM2361	17.17	STY1378	1332068	1333609	tyrR
STM1760	19.59	STY4249	4113665	4114591	livH
STM0203	9.86	STY1574	1523846	1525135	
STM3885	47.42	STY3989	3854206	3855126	
STM0564	3.62	STY0388	394911	396869	mod
PSLT108	9.78	STY0455	462053	463156	ribD
STM3701	11.96	STY4429	4299821	4300318	ubiC
STM3370	4.54	STY0112	112880	115231	polB
STM3625	36.4	STY3421	3260857	3262124	
STM0421	9.39	STY4315	4193344	4194348	trpS
STM0342	26.91	STY0378	389375	389923	
STM2443	47.46	STY2679	2513933	2514880	cysW
STM0942	47.78	STY0553	559663	560349	ybbA
STM2239	4.29	STY0649	650760	651995	
STM0918	3.75	STY2844	2705480	2708140	
STM0460	8.1	STY3383	3226722	3227963	cca
STM4023	50.73	STY3430	3273610	3274494	garR
STM4477	9.06	STY3459	3299500	3300507	
STM0920	65.9				
STM2627	100	STY1021	1015718	1016092	
STM4306	57.35	STY2774	2626509	2627138	
STM1365	9.25	STY2793	2649495	2650373	
		STY0581	589259	590326	purK
STM3631	5.58				
STM1987	23.58	STY4904	4765611	4766675	
STM3707	6.16	STY4088	3946749	3947783	
STM0889	36.03	STY2583	2418642	2419328	hisQ
STM2539	19.17	STY0012	11594	13510	dnaK
STM2146	7.01	STY1328	1285596	1287158	trpE
STM1491	33.2	STY2934	2808847	2810048	proV
STM1131	38.23	STY3821	3682192	3682875	
STM0563	8.21	STY0697	692238	693269	hoIA
STM0593	11.23	STY2699	2532761	2533600	eutJ
STM4270	40.87	STY3749	3607204	3608121	oxyR
STM3576	4.94	STY0812	809038	809826	modE
STM1340	28.93	STY0802	799013	800092	
STM2948	29.93	STY2931	2804995	2805405	nrdI
STM0451	30.25	STY1771	1693319	1693618	himA
STM3325	28.17	STY3559	3403698	3404168	accB
STM0625	52.95	STY0062	61791	63410	citA
STM3966	30.37	STY0043	41720	42910	
STM0284	36.08				
STM1849	26.84	STY2212	1782326	1782490	
		STY1880	2049539	2049700	

STM1614	12.5	STY3910 STY2254	3770700 2081704	3771233 2081978	atpH pduN	ATP synthase
STM2528	29.14	STY4508	4400057	4400830	dmsC	putative dir
STM0683	4.83	STY2117	1967557	1969290	argS	arginyl-tRN
STM2912	29.6	STY3547	3386896	3387825		probable L
STM3717	12.59	STY4077	3934610	3935623	waal	lipopolysac
STM1473	28.52	STY4689	4551268	4551561	groES	GroES prot
STM3080	21.34	STY1178	1139603	1139998	csgE	assembly/t
STM3523	38.58	STY3853	3708770	3709573	yihW	putative De
STM0451	68.55	STY3715	3565553	3565825	hupA	histone like
STM4427	47.85	STY2671	2508137	2508376		hypothetica
STM2365	26.63	STY2249	2079449	2079799	pduH	PduH prote
STM3114	18.81	STY4495	4383814	4386084	adi	arginine de
STM0541	17.02	STY3707	3551123	3551461	yifE	conserved
STM4299	12.44	STY2169	2014368	2014775	fliS	flagellar pr
STM4270	35.25	STY1337	1296327	1297301	cysB	cys regulor
STM1802	23.26	STY4443	4313162	4314241	alr	alanine rac
STM2665	49.15	STY3500	3340392	3340679		probable si
STM4015	7.96	STY0468	474347	475360	phnS	probable p
STM4564	40.96	STY3583	3436587	3437369	tatD	putative de
STM1031	22.71	STY3600	3454404	3455024	rhtC	threonine e
STM1989	18.32	STY3617	3470496	3470858		conserved
STM0847	7.58	STY4782	4641054	4641830		putative me
STM1003	38.72	STY0006 STY1221 STY2177	5966 1174728 2020145	7396 1175678 2021827	yaaJ flgJ fliF	putative ar flagellar pr flagellar ba
STM3772	4.77	STY3076	2939541	2941340	cysJ	sulfite redu
STM3421	14.76	STY3138	3012899	3013369	ppdA	prepilin pe
STM2970	26.35	STY3167	3039474	3040703		probable ai
STM3526	17.24	STY3781	3647370	3647855	menG	menaquinone
STM1238	7.84	STY3587	3439205	3440845	aarF	ubiquinone
STM3541	15.64	STY1477 STY1518 STY1494	1428801 1473676 1451664	1429466 1475232 1453397		putative re hypothetica NAD-linkec
STM2177	35.19	STY1942	1832560	1833219		putative hy
STM2129	14.11	STY1974	1860238	1861610		
STM1127	9.99	STY2095	1947124	1947993	hexR	putative he
PSLT108	18.86	STY2110	1962167	1962733	yecD	putative hy
STM3614	13.17	STY0552	559078	559692	tesA	acyl-coA th
STM2568	12.46	STY0578	586253	587500		conserved
STM4535	27.94					
STM2050	13.71	STY1427	1377651	1378256	acpD	acyl carrier
STM0404	19	STY1513	1469419	1470498		putative isc
STM4581	13.35	STY1330	1288308	1288928		conserved
STM2480	19.55	STY1286	1240163	1241959	narX	nitrate/nitrit
STM1541	13.26	STY1934	1827491	1828210	fadR	fatty acid-fa
STM3408	14.59	STY1981 STY1399	1870173 1351292	1871612 1351978		conserved conserved
STM2308	14.97	STY0525	531966	532481	priC	
STM0618	31.96	STY3340	3182112	3183566		possible m
STM2812	8.25	STY2876	2754433	2755842		putative typ
STM2212	10.72	STY4888	4750653	4751690		conserved

		STY0425		434430	435275	rdgC	recombinat
STM0394	3.06	STY3295		3141263	3142762		possible ar
		STY2813		2676484	2677911	yfhD	putative ex
STM0398	9.73	STY2903		2785422	2786837	tctE	putative tw
STM0442	8.4	STY3335		3178727	3179647		probable A
STM0842	75.68						
STM0036	13.51	STY3976		3842341	3842871	yidF	conserved
STM0457	8.71	STY2852		2722539	2723276		putative lipi
STM2703	20.05		STY4611	4483135	4484754		probable pl
STM2050	12.6	STY2940		2814673	2815845	emrA	multidrug r
STM3369	28.54	STY2928		2804050	2804481		conserved
		STY4135		3998655	3999479	bax	putative ex
		STY4070		3927682	3928959	kdtA	3-deoxy-D-
STM1826	72.55	STY3110		2977657	2979024	sdaB	L-serine de
STM3220	19.68	STY3135		3011636	3011956	ppdC	prepilin pe
STM3512	8.21	STY2418		2248211	2249445	yeiA	
		STY2460		2290935	2292695	yejH	putative he
STM1767	50.19	STY2472		2303653	2304300	narP	nitrate/nitrit
		STY1950		1839365	1840060		conserved
STM2071	16.88	STY4372		4239696	4240088	rpsH	30S riboso
STM3603	11.18	STY0942		934046	934366		conserved
STM3901	7.03	STY0931		921807	923525	poxB	pyruvate de
STM0053	10.6	STY4361		4234878	4235699	rplB	50S riboso
STM0969	6.11	STY4705		4563791	4565293	yjeM	putative ar
STM1446	22.98	STY4747		4606057	4606452	rpsF	30s ribosor
STM2535	3.16	STY3380		3221541	3224384	glnE	adenyl-tran
STM4509	15.63	STY3300		3146822	3147370		conserved
		STY4751		4607644	4608570		putative me
		STY4866		4728340	4729074		probable a:
STM3599	21.32	STY4684		4546023	4547324	dcuA	anaerobic (
STM4447	5.82	STY0407		420379	421536	ampH	penicillin-bi
STM0718	10.25	STY2373		2204123	2205088		putative su
STM3627	29.11	STY2455		2286542	2288131	yefF	putative AE
STM3359	25.09	STY2465		2295048	2295275	yejL	conserved
		STY2323		2152275	2153021	wcaE	putative gly
STM2073	13.15	STY2399		2232222	2232890	yohC	putative me
STM4254	18.97	STY4109		3968959	3969549	mtlR	mannitol op
		STY4195		4060716	4061744	yhjD	putative me
STM2495	15.7	STY4285		4160566	4161141		conserved
STM3260	9.06	STY3416		3258519	3259220		conserved
STM2068	8.18	STY2097		1949632	1950630	msbB	lipid A acyli
STM2871	22.6	STY1711		1635704	1636453	ssaJ	putative pa
STM2746	6.34	STY0760		760426	761319		putative gly
STM0659	29.17	STY0849		843040	843450		putative me
STM3399	11.28						
STM0838	41.09	STY1083		1061045	1062952		ABC transp
STM4300	29.82						
STM0808	28.55	STY0841		837955	838660	ybhL	
STM0855	16.09						
STM2514	5.51	STY1738		1657246	1660308	ttrA	tetrathionat
STM0318	21.74	STY3410		3254602	3255000		putative me
STM2791	5.89	STY4738		4599348	4600412	yjfR	conserved

STM2585A	98				
STM0670	21.72	STY1724	1643332	1643574	ssaE putative se
STM3166	24.99	STY0411	424815	425030	putative me
STM2485	24.57	STY2622	2456709	2456993	conserved
STM2377	15.48	STY4325	4208489	4208656	yhfG conserved
STM1781	36.82	STY2225	2059418	2059699	cbiN putative co
STM2204	7.03	STY0470	476417	477520	phnW 2-aminoeth
STM0749	40.25	STY4749	4606778	4607005	rpsR 30s ribosor
		STY4366	4237483	4237674	rpmC 50S riboso
STM3925	40.59	STY4788	4647525	4647767	relB RelB protei
		STY0383	391868	392227	probable lip
STM2479	13.01	STY3248	3112625	3113572	gshB glutathione
STM1019	55.07	STY1200	1158472	1158717	dinI damage-in
STM0487	33.18	STY3029	2898592	2899034	
STM0117	14.19				
STM2263	31.35				
STM0688	32.56	STY4334	4215686	4215940	yheU conserved
STM0912	21.28	STY0490	495358	495981	clpP ATP-deper
STM1996	28.62	STY1881	1782934	1783146	cspH putative co
STM3499	14.77	STY1824	1742809	1743252	conserved
		STY1821	1741482	1742138	pncA pyrazinami
STM4377	28.58	STY4908	4769216	4769662	rimI ribosomal- γ
STM1430	53.77	STY3891	3751662	3752660	rbsR ribose oper
STM1112	13.45	STY2079	1933933	1934286	putative ex
		STY4474	4360977	4361123	hypothetica
		STY0770	768519	768671	hypothetica
STM4410	40.39	STY2391	2222741	2222848	hypothetica
STM3004	27.27	STY2559	2394916	2395068	hypothetica
STM4007	41.72	STY1938	1831167	1831340	conserved
STM0395	6.42				
STM4074	39.37				
PSLT106	55.42				
PSLT044	6.63				
STM0347	11.8				
STM1761	8.74				
STM3861	3.91				
PSLT021	26.29				
STM0710	62.36	aSTY2807			
STM3114	63.54	STY0739	739365	741433	speF
STM0916	72.33				
STM0507	49.73	aSTY0866			
STM0159	21.46				
STM0637	60.78	aSTY0896			
STM4305	11.33	STY2044	1912585	1913061	putative en
		STY3292	3139187	3139414	putative me
		STY3661	3517613	3517834	hypothetica
		STY2420	2249889	2250164	insA insertion el
STM3747	4.6	STY2884	2762798	2765875	putative ba
		STY4124; STY4658; F- STY3700			

STM0689	20.14	STY0114		115571	116011		putative IS
STM2357	33.93	STY2070		1926656	1926877	kil	putative ce
STM0107	16.49	STY2345		2183491	2183793		hypothetica
STM3331	28.85	aSTY2717					
STM3483	31.5	STY2886	STY3698	2766002	2766340		putative ph
STM0952	23.75	STY0159		164472	165413		putative lys
		STY0313		326234	326704		hypothetica
STM1473	42.93	STY2203		2041179	2042363	ompS1	outer mem
STM4537	16.97	STY2361		2194299	2194718		putative ex
		STY2879		2759733	2760560		putative rev
STM1791	10.73	STY3067		2928569	2929294		hypothetica
		STY1592		1539260	1539712		conserved
		STY1609		1547849	1548268		hypothetica
		STY2363		2195153	2195350		hypothetica
STM2120	8.52	STY3762		3624532	3626013		putative Gr
STM0618	6.58	aSTY4106					
		STY1594		1539907	1540137		hypothetica
STM2221	20.4	STY1611		1548561	1549211		putative lipi
		STY1627		1560491	1560772		hypothetica
STM3683	29.3	aSTY4616					
STM2461	3.55	STY4523		4412040	4413839		hypothetica
STM4385	8.97	STY4558		4439581	4440321		putative ex
STM1534	12.47	STY4575		4453457	4453849		hypothetica
		STY4592		4467675	4469624		hypothetica
STM1651	15.74	STY4617		4487686	4488117		putative ph
		STY4852		4716299	4716538		hypothetica
STM3375	11.06	aSTY4626					
STM3081	10.96	STY4650		4509535	4510281	yjhP	conserved
		STY4553		4436587	4437054	pilK	putative ex
STM3053	8.56	STY4572		4449922	4450341		hypothetica
STM0814	16.46	STY4589		4466173	4466757		hypothetica
STM2514	18.38	STY0198		207905	208285	panD	aspartate 1
STM3054	18.93	STY0271		283298	283702	rcsF	RcsF prote
STM1473	51.97		STY1532	1486828	1487253		
STM3913	13.89	STY1332		1289991	1290581	btuR	COB(I) alai
STM0782	15.15	STY3928		3791978	3792868	pstA	phosphate
STM2129	47.88	STY3889		3750269	3751696	yieO	
STM3119	7.43	STY4927		4787603	4788835	nadR	conserved
STM3796	19.36	STY2231		2061940	2062730	cbiJ	
STM2074	22.41	STY4350		4226794	4227168	rpsL	30S riboso
STM3199	8.2	STY2688		2521420	2522319	hemF	coproporph
STM1491	49.37	STY3498		3338163	3338888		probable A
STM0817	15.06	STY3538		3379525	3380154		possible Gi
STM3878	19.5		STY0155	159617	160045	yacA	conserved
STM3172	13.51	STY0190		198720	200330	yacK	possible m
STM0498	9.78	STY0212		221438	222142	sfsA	sugar ferm
STM4294	6.83	STY0246		257880	259232	yaeL	putative me
STM3609	37.94	STY1554		1506463	1507842		putative me
STM1787	42.27	STY1525		1481216	1483018	hyaB2	
STM0658	41.18						
STM3114	59.11		aSTY0739				
STM0574	55.24						

STM2088	20.42	STY2366	2198158	2198574	conserved
STM3484	37.82				
STM2016	15.2				
STM2197	30.63	STY4925	4785018	4785986	serB putative ph
STM1372	6.75	STY0281	297748	299115	mltD membrane
STM3266	22.41	STY0355	364627	365205	gmhA phosphohe
STM0952	22.03				
STM3909	13.57	STY1094	1072136	1072741	conserved
STM2810	35.61	STY1572	1521915	1522562	putative AE
STM3028	11.11				
STM0168	21.98	STY1080	1057174	1057719	conserved
STM2513	10.97	STY1667	1596454	1597074	conserved
STM4122	14.67	STY1174	1137125	1137679	conserved
STM3371	24.02	STY1228	1184161	1184745	conserved
STM1375	41.75				
		aSTY1255			
STM3581	14.24	STY1663	1592218	1592799	putative me
STM0268	24.52	STY4374	4240644	4240997	rplR 50S riboso
STM1303	65.03	STY4328	4209929	4211146	argD acetylornit
STM1708	30.04	STY4291	4166474	4166710	feoA putative fer
STM2274	38.36				
STM0106	10.04	STY0994	988713	990035	mukF killing facto
STM3169	38.46	STY3817	3679220	3680202	
STM0033	54.08	STY3765	3628564	3630120	hypothetica
		STY3746	3604612	3604971	yjD putative me
		STY3027	2897992	2898519	hypothetica
STM2036	19.03	STY3756	3618043	3618879	yjO putative Ar
STM3323	4.72				
		STY3045	2912190	2912594	slyA putative re
STM3587	25.94	STY2624	2458732	2459487	vacJ VacJ lipopr
STM1029	73.74				
STM3582	18.06	STY2734	2570412	2571479	putative me
STM0395	4.16	STY4403	4267775	4269556	aceK isocitrate d
STM3161	32.82	STY3769	3634542	3635720	metB cystathionir
STM2483	10.91	STY3753	3611776	3612927	argE acetylornit
STM3038	20.55				
		STY3050	2916132	2917253	nlpD lipoprotein
STM3748	19.03	STY2613	2447375	2447924	
STM1195	23.86	STY2682	2516815	2517660	yfeF putative ox
STM0800	27.87	STY2467	2297837	2300230	sspH2 secreted ef
		STY1132	1097595	1098035	hpcR homoproto
STM0137	31.42	STY1813	1732384	1732800	putative Ml
		STY4710	4571379	4571924	orn oligoribonu
STM3675	57.69	STY4742	4602981	4603631	sgaH putative he
STM0517	21.88				
STM1371	49.62	STY2486	2315852	2316115	yojF putative na
STM1195	40.44				
STM4004	6.82	STY4856	4719101	4720729	conserved
STM1919	60.89	STY4892	4754435	4756095	tsr
STM3491	11.09				
		STY1261	1216368	1217081	cobB putative re
STM0924	54.28	STY1682	1610160	1610681	sodC copper-zinc
STM1147	19.74				
		aSTY1184; STY1185			

STM3492	9.38	STY4356	4232125	4232592	hopD	Type III lea
STM2056	23.05	STY2705	2538230	2538790		putative eth
STM0880	41.66	STY1263	1218234	1219013	potC	spermidine
STM2205	28.28	STY1785	1706666	1707598	pfkB	6-phosphol
		STY4727	4590817	4591221	yjfl	conserved
STM0428	35.76	STY1266	1221515	1222651	potA	spermidine
STM3640	43.46	STY0024	24473	25015	bcfA	fimbrial sut
		STY1817	1736601	1737644	selD	selenophos
STM1132	27.02	STY1776	1697718	1697915	rpml	50S riboso
STM0514	39.22	STY1693	1618808	1619740	ydhB	putative tra
STM3319	48.31	STY4252	4116631	4117344	livF	high-affinity
STM1238	11.42	STY0131	132490	133581	leuB	3-isopropyl
STM4290	25	STY0727	727357	728661	citA	citrate-prot
		STY4427	4297201	4298559	lamB	maltoporin
STM4076	23.77	STY3895	3754641	3755660	rbsC	high affinity
STM1490	9	STY0225	235669	237090	yadQ	putative me
STM0092	3.79	STY0494	500816	502687	ppiD	peptidyl-pro
STM0046	29.62	STY0441	451090	451671	yajB	conserved
STM4238	4.42	STY4438	4307686	4308996		putative ex
STM4428	55.77	STY2603	2439613	2440791		putative tra
STM2858	7.53	STY1787	1708092	1708952		conserved
STM1108	11.41					
STM1372	8.02	STY1650	1577621	1579327		conserved
STM1114	8.38	STY2288	2113613	2114596	cld	polysaccha
STM4268	14.41	STY3932	3795271	3796734	yieG	putative me
STM2466	15.63	STY0244	256240	256998		undecaprei
		STY2265	2091002	2092060	yeeA	putative me
STM2467	16.78	STY0145	147729	148811	mraY	phospho-N
STM0125	3.56	STY2592	2429356	2430873	purF	amidophos
STM2924	9.82	STY4243	4109216	4110070	rpoH	RNA polym
STM3504	11.84	STY3463	3305058	3307193	pnp	polynucleoi
STM0618	8.46	STY2801	2656457	2657596	hcaT	putative 3- β
STM2622	100					
STM0472	10.67	STY0249	262287	263312	lpxD	UDP-3-O-[:
STM1041	86.24					
STM0115	9.72	STY4058	3918961	3919863		putative req
STM1743	48.06	STY4171	4030884	4031867	dppD	dipeptide tr
STM2282	13.14	STY4258	4122238	4122978	ugpQ	glyceroph
STM2956	27.47	STY4050	3912117	3914228	spoT	guanosine-
STM3543	49.88	STY2575	2412405	2413424		putative tra
		STY2804	2660730	2662274	cadC	transcriptio
STM0195	35.3	STY2676	2511407	2511784		putative ex
STM1954	43.79	STY0868	860063	860809	glnH	glutamine-l
STM0768	8.64	STY0626	623796	624914		conserved
STM4469	66.47	STY4803	4663345	4664349		ornithine c:
STM0820	45.15	STY2836	2698505	2699839	srmB	ATP-deper
STM4044	9.16	STY3373	3215354	3216070	ribB	3,4-dihydro
STM0998	55.15	STY4444	4314427	4315620	tyrB	aromatic-ar
STM3073	8.77	STY2795	2651602	2652420	asrB	anaerobic s
STM3870	8.63	STY2280	2106396	2107295	hisG	ATP phosp
STM1947	42.45	STY0596	602214	602846	fimZ	probable tr
STM2164	17.62	STY3852	3707980	3708579	yihX	putative ha

STM1223	38.53	STY0913	906091	906936	potI	putrescine	
STM2253	9.05	STY0749	750319	751740	phrB	deoxyribod	
STM2976	9.26	STY3803	3666475	3667515		hypothetica	
		STY0719	716873	717625	nagD	NagD prote	
STM2183	14.03	STY0771	768705	769496	nei	endonuclea	
STM2076	11.57	STY3761	3623363	3624253	metF	5,10 methy	
		STY4464	4349505	4349963	soxR	SoxR prote	
STM4264	28.77	aSTY4459					
STM3207	6.89	STY2803	2659359	2660549	hmpA	flavoheмо	
		STY0178	185869	186153		probable s	
STM0217	3.06	STY3721	3570148	3572043	thiC	thiamine bi	
STM3248	50.57	STY3855	3710668	3711564	yihU	putative ox	
STM0163	18.79						
STM4515	3.84	STY3001	2874081	2875712	stpA	tyrosine ph	
		STY1231	1185823	1186902	plsX	fatty acid/p	
STM4368	9.47	STY1350	1309430	1311364	rnb	exoribonuc	
STM0095	28.57	STY2851	2721427	2722470	sfhB	ftsH suppre	
STM3692	12.91	STY0058	57793	58743	lytB	LytB protei	
STM2138	30.96	STY1038	1024883	1025008		putative ba	
STM3616	2.17	STY4009	3871470	3872852		putative gly	
STM0316	20.23	STY1710	1635138	1635686		putative pa	
STM1729	14.26	STY1322	1279375	1279878		conserved	
STM2724	29.52						
PSLT108	16.26	STY0459	465189	465704		phosphatid	
STM2265	28.49	STY1405	1356335	1356850	ogt	O6-methyl	
STM0654	14.57	STY1292	1250985	1252514		putative se	
STM1825	21.9	STY1955	1844138	1844716		conserved	
STM2246	50.42	STY1285	1239520	1240170	narL	nitrate/nitrit	
STM1800	2.9	STY3133	3005183	3008071	ptr	protease III	
STM3274	7.83	STY3055	2920316	2921026	ygbP	2-C-methyl	
STM0164	43.27	STY3044	2911407	2912171		DeoR-fami	
STM2981	2.12	STY1150	1110655	1112541	scsB	membrane	
STM0644	12.84	STY0103	101228	102076	apaH	bis(5'-nucl	
STM0400	55.26	STY3625	3480167	3481552	yifK	probable ai	
STM2502	36.97	STY3641	3498321	3499802	gppA	guanosine-	
STM2851	12.62	STY3734	3586055	3586552	rplJ	50S riboso	
STM2555	13.82	STY1945	1834419	1835231	minD	septum site	
		STY1971	1858820	1859059		putative ex	
STM1800	15.6	STY2129	1981621	1982124	cheW	purine bind	
STM0229	15.89	STY4407	4276390	4277079	pepE	peptidase I	
STM2485	13.78	STY0471	477530	478339	phnX	phosphono	
STM2941	21	STY3831	3691531	3691845	yiiL	conserved	
STM2069	12.23	STY3595	3449980	3450933	metR	trans-activ	
STM4308	18.27		STY0658	657980	658462	conserved	
STM3059	18.08	STY1318	1276435	1276839		conserved	
STM1764	75.42	STY1488	1441124	1444852	narZ	respiratory	
STM0395	9.23	STY1455	1405735	1406748	tehA	tellurite res	
STM2072	5.92		STY1439a	1391185	1391325	sseJ	secreted ef
		STY1394	1346408	1347253		putative lip	
STM3390	62.94	STY0520	525281	526474	acrA	acriflavin r	
STM2962	19	STY1519	1475409	1476695		membrane	
STM2810	10.8	STY1534	1488569	1489516		putative me	

STM3077	62.12	STY0979	974571	975332	putative lipi	
STM1506	12.51	STY0663	662852	664090 ybdR	hypothetica	
STM0621	22.42	STY1311	1271018	1271347	conserved	
STM4450	57.65					
STM2885	8.4					
STM2551	4.37	STY1460	1410094	1412058	putative pe	
STM4293	8.7		STY1433	1384141	1384578	conserved
STM1712	7.99					
STM0613	16.73	STY2084	1936709	1937407	exoX	exodeoxyri
STM4044	50.39	STY3112	2980042	2981190	fucO	1,2-propan
STM4270	19.3	STY3166	3038850	3039332		conserved
STM3646	10.43	STY3218	3085804	3087036	serA	D-3-phospl
STM3614	16.13	STY3246	3111090	3111797	endA	endonuclea
STM1952	15.58	STY0487	492267	492845	yajG	putative lipi
STM4428	46.89	STY4230	4096560	4097777		putative me
STM2269	3.42	STY4182	4042585	4044885	yhjN	putative po
STM4387	47.26	STY4120	3984123	3984983	yiaR	putative su
		STY4091	3950029	3951552		2,3-bisphos
STM2960	66.9	STY3099	2967439	2968779	ygcY	probable gl
STM2450	31.16	STY3129	2996893	2998146		N-acetylm
STM4486	10.77	STY3196	3061741	3063258	lysS	lysyl tRNA
STM1211	4.34	STY4215	4081901	4083103		putative ex
STM3207	28.99	STY3121	2989396	2989791	ygdD	conserved
STM4307	28.35		aSTY4512			
STM4292	57.05	STY3354	3198301	3198960		probable tv
STM3091	45.57	STY3160	3032758	3034173	araE	L-arabinosi
STM1343	37.46	STY2450	2280045	2280617		putative lipi
		STY2306	2134585	2135484	rfbD	dTDP-4-de
STM3790	11.6	STY2388	2219326	2220045	yehT	putative tw
STM2781	32.46	STY0936	929214	930164	ybjX	putative vir
		STY4136	3999540	4000718	xylR	xylose ope
PSLT016	30.95	STY4517	4407033	4407326		conserved
		STY4089	3947770	3948732		putative ex
STM0564	8.85	STY4206	4071684	4072526		conserved
STM3299	52.47	STY4293	4169567	4170040	greB	transcriptio
STM3796	7.65	STY3473	3318260	3319180	folP	dihydropter
STM3390	4.24	STY4920	4780272	4781495	deoB	phosphope
STM3391	28.27					
STM0638	5.8	STY3465	3307855	3308799	truB	tRNA pseu
STM4166	11.32	STY3363	3205236	3205868		conserved
STM0863	8.05	STY3262	3123111	3123830		conserved
STM4323	12.26	STY2943	2819165	2819680	luxS	autoinduce
STM4538	14.18	STY2411	2243505	2243903	yohJ	putative me
STM2220	22.43	STY2456	2288135	2288479	yejG	conserved
STM1719	34.87	STY2459	2290088	2290783	yejD	ribosomal s
STM2124	10.55	STY2383	2214047	2215156	mrp	conserved
STM2934	35.71	STY2648	2483942	2484268		conserved
STM0136	17.83	STY4373	4240101	4240634	rplF	50S riboso
STM0536	33.35	STY4324	4207808	4208380	ppiA	peptidyl-prc
		STY4720	4582799	4584058	hflK	HflK protei
STM1770	7.92	STY4024	3887569	3888044	cigR	

STM3113	13.66	STY3330		3174262	3175146	possible ox
STM3120	25.51	STY3216		3084252	3084581	conserved
STM2442	44.46	STY0815		811044	811733	modB
STM0194	19.01	STY0858		853134	854108	ybiB
		STY2866		2735495	2736736	corB
STM3541	7.57	STY2290		2116142	2117548	gnd
STM4556	5.17	STY0806		801935	802975	galM
STM3586	25.95	STY0852		845757	847493	ybhF
STM0591	20.74	STY0895		889039	889665	yliJ
STM0931	11.76	STY3493		3334497	3335474	
STM2184	32.78	STY3402		3247727	3248419	ygjQ
STM4261	41.92		STY4513	4404849	4405046	
STM1546	41.99	STY0398		407252	407527	
STM1356	18.64	STY2822		2685777	2686037	
STM3064	27.02					
STM0107	12.48	STY4799		4659574	4660035	pyrI
STM2775	7.47	STY0629		628121	629335	fes
STM3641	10.44	STY3752		3610683	3611687	argC
STM3959	32.16	STY4722		4585144	4585341	yjeT
		STY1732		1652636	1652848	ydhZ
STM2174	16.53		STY3564	3408993	3409838	yhdG
STM4438	10.09					
STM0834	33.56	STY4446		4316649	4317065	
STM2378	18.14	STY4642		4504708	4505217	cII
		STY2907		2788477	2788908	
STM2968	23.6	STY3885		3742219	3742488	yihD
STM1228	47.58	STY3026		2897705	2897995	
STM2204	37.73					
STM4328	34.98	STY3057		2921547	2921930	ygbE
STM4314	33.5	STY1661		1591397	1591612	
STM3514	26.08	STY1560		1510585	1510926	
STM2038	72.07	STY2250		2079819	2080094	pduJ
STM3434	23.35	STY4750		4607047	4607496	rplI
STM2271	46.2	STY4354		4231386	4231580	yheA
STM1541	15.41	STY0352		360350	360757	
STM0767	13.9	STY1943		1833269	1833610	
			STY1908	1802222	1802443	
		STY1991		1876603	1877022	
STM2775	28.01	STY2087		1940462	1940815	yebF
STM4264	23.03	STY1969		1858166	1858453	
STM3713	34.11	STY2445		2275995	2276117	
STM4256	50.11					
PSLT024	25.96					
STM2099	13.29					
STM2112	9.53					
PSLT058	55.95					
PSLT106	100					
STM4589	12.76					
STM4517	4.42					
STM4262	19.42					

STM0657	60.1				
STM0923	40.61				
STM1793	56.95	aSTY0787			
STM0689	29.59				
STM1010	71.88				
STM0760	59.3	aSTY2857			
		STY3188	3054094	3055077	hypothetica
		STY2068	1925785	1925988	conserved
		STY2298	2127027	2128043	rfbE CDP-tyvelc
STM2713	7.18	STY3685	3534809	3535240	putative ph
STM4456	10.38	STY3764	3627061	3628320	putative se
STM1757	14.85	STY1293	1252901	1253230	hypothetica
STM3911	18.44	aSTY3643			
		STY3671	3523748	3524554	possible lip
STM2457	20.84	STY3687	3535748	3536326	putative ph
		STY3845	3703463	3703711	yiiF putative Cc
STM0437	7.92	STY1360	1320252	1320752	hypothetica
		STY1598	1541402	1541740	hypothetica
STM2324	28.86	STY3665	3519207	3519440	hypothetica
STM1611	31.09	STY3681	3533201	3533416	nucE possible se
STM0632	23.11	STY3703	3548757	3548975	putative po
STM2996	10.71	STY0202	211476	212072	staF putative fir
STM2746	16.64	STY0322	335381	336058	hypothetica
STM0438	22.1	STY0478	483689	483973	hypothetica
		STY3683	3533911	3534288	putative me
STM0947	26.12	STY2895	2779174	2779416	hypothetica
STM3822	12.3	STY0204	212695	213261	staD putative fir
STM0292	10.76	STY0324	336466	338997	Rhs-family
STM0437	11.14	STY0480	484300	485454	conserved
		STY1029	1020282	1020443	putative ba
STM0970	13.74	STY4219	4084900	4085547	putative DN
STM2140	6.31	STY4653	4513900	4514595	vexC Vi polysacc
		STY4679	4540153	4541343	putative me
STM0039	21.11	STY4831	4691877	4692197	hypothetica
STM3508	59.26	STY4875	4737702	4738667	putative me
STM2952	16.28	STY4220	4085586	4085966	putative re
		STY4596	4472078	4472347	hypothetica
STM1049	32.38	STY4259	4122975	4123346	hypothetica
		STY4529	4417838	4418617	hypothetica
STM2515	17.32	STY4675	4537926	4538252	hypothetica
		STY4828	4690849	4691172	phage DN
STM2333	4.8	STY4853	4716616	4717491	hypothetica
STM3493	8.13	STY0215	225332	227854	mrcB penicillin-bi
STM0530	5.64	STY0718	714919	716583	asnB asparagine
STM2131	48.3	STY0743	742195	742872	kdpE KDP opero
STM2962	14.8	STY3946	3813583	3814845	putative me
STM2019	9.15	STY2233	2063452	2064570	cbiG CbiG prote
STM2480	21.05	STY3993	3858242	3859744	uhpB two-compo
STM4123	12.38	STY3901	3762923	3763915	asnA asparagine
STM4019	8.4	STY0049	48368	50407	putative gly

STM3901	18.95	STY0135	137249	138973	ilvI	acetolactat
STM3750	52.67	STY0171	174957	176363		putative syI
STM4593	50.85					
STM2271	16.1	STY3507	3345014	3347350	arcB	aerobic res
		STY3548	3387948	3389393	tldD	TldD protei
STM1837	80	STY0678	677679	677888	cspE	cold shock
STM1760	21.58					
STM4009	5.97	STY0724	723401	725068	glnS	glutaminyI-
STM0568	17.03	STY0752	754348	755004		conserved
STM0698	7.9	STY0269	280765	282483	proS	prolyl-tRNA ^P
STM1805	13.32	STY1521	1477754	1478545		putative req
STM2773	4.68	STY2326	2154222	2155439	wcaC	putative gly
STM1777	16.75	STY4938	4799424	4800580	sthE	
STM4260	28.62					
STM2443	6.33	STY0366	375618	376721	proB	glutamate t
STM2397	6.85					
		aSTY0306				
STM3860	20.52					
STM0940	33.59	STY2899	2781435	2782364	virK	virulence p
STM2614	67.6	STY1115	1086003	1086683	pipA	conserved
STM3983	16.99	STY1147	1108783	1109088	yccD	conserved
STM0325	81.85					
STM2792	14.51	STY2918	2799245	2799772		conserved
STM2791	36.78	STY1136	1099596	1101061	hpcC	
STM4397	24.89	STY4345	4223814	4224632	fkpA	FKBP-type
STM3488	21.39	STY4307	4185828	4186229	yrfA	conserved
STM3822	21.33	STY1276	1232707	1233036		putative se
STM4122	46.06	STY1792	1712716	1712958	cedA	cell divisior
STM1148	11.48	STY1184	1143268	1143828		conserved
STM2378	37.6	STY1236	1190105	1191346	fabF	3-oxoacyl-]
STM2630	3.91	STY1257	1212056	1213366		ABC transp
		STY1854	1764423	1764671		hypotheticc
STM0878	28.95	STY4233	4099246	4099491	yhhP	conserved
STM0909	45.14					
STM3486	7.65					
STM2758	4.36	STY4417	4285286	4286935	pgi	glucose-6-]
STM0343	24.42	STY4462	4347506	4349107	yjcC	putative ex
STM3194	10.38	STY4496	4386314	4387246	melR	melibiose c
		STY2607	2442302	2442820		putative lipi
STM0659	12.3	STY4445	4315807	4316520	aphA	class B aci
STM0192	11.41	STY4483	4369618	4370370	yjcO	putative ex
STM1469	41.58	STY4685	4547439	4548875	aspA	aspartate a
STM0887	65.8	STY0923	914718	915449	artI	arginine-bir
STM2597	79.7					
		STY0933	924663	926315		prismane p
STM1917	20.9	STY3804	3667525	3668484		putative ca
STM2060	13.84					
STM2011	12.65					
		STY4692	4553896	4554753	yjeJ	hypotheticc
STM1226	35.6	STY0911	903998	905131	potG	putrescine
STM1032	35.13					
STM1303	33.08	STY0223	234219	235499	hemL	glutamate-

STM0730	13.74	STY0401	410564	411733	prpC	methylcitra
STM0760	60.54	STY1763	1686242	1687288	aroH	3-deoxy-D-
STM1932	46.17	STY2143	1993618	1994115	ftnA	ferritin
STM2317	12.65	STY2201	2039442	2040137	yedJ	conserved
STM3328	13.2	STY2496	2327697	2330543	rscC	sensor prot
STM1133	8.49					
STM0595	29.79	STY2541	2374973	2376268	menF	isochorism
		STY2566	2402166	2402621		conserved
STM3242	39.59	STY2262	2088214	2089428		putative pr
STM3211	37.52	STY3049	2915077	2916069	rpoS	RNA polym
		STY0228	238277	239077	btuF	cobalamin
PSLT048	5.84					
STM0591	39.27	STY1770	1692136	1693116	btuC	vitamin B12
		STY1098	1077560	1078018	mgsA	methylglyc
STM2875	27.46	STY2988	2864110	2864997	sprA	possible Ar
STM1555	50.33	STY3776	3642207	3643232	cytR	transcriptio
STM4517	10.95	STY2153	2000039	2000587	pgsA	phosphotid
STM1352	5.58	STY3021	2893597	2895285	invG	secretory p
STM4055	13.74	STY1691	1616737	1617318	sodB	superoxide
STM4466	21.15	STY1181	1141906	1142361	csgA	major curlir
STM2206	11.36	STY4068	3926357	3927166	mutM	formamido
STM2548	8.73	STY4079	3936674	3937372	waaY	lipopolysac
STM3343	11.26	STY1590	1537773	1538717		putative ex
STM4300	74.71	STY1654	1583312	1584958	fumA	Fumarate h
STM4305	56.66	STY1566	1515383	1517818	dmsA2	putative dir
		STY4001	3866559	3868043		putative ca
STM0912	11.67	STY0353	361067	361834		possible hy
STM3172	12.75	STY0395	403089	404093		AraC-famil
STM2320	8.14	STY2216	2051109	2052566		putative inr
STM0592	5.73	STY2276	2101051	2102481	sbcB	exodeoxyri
		STY0153	157097	158248	ftsZ	cell divisio
STM2143	6.41	STY2553	2386919	2389651	nuoG	NADH dehy
STM2545	16.06	STY0362	371982	372440	gpt	xanthine-gu
STM0981	42.72	STY2188	2029691	2029960	fliQ	flagellar bic
STM3121	28.21	STY1578	1527260	1528159		putative req
STM4454	22.81	STY4351	4227264	4227734	rpsG	30S riboso
STM2221	25.06	STY3936	3799204	3800391	yidY	putative me
STM3490	19.1	STY0420	431706	432161	yail	conserved
STM3588	14.96	STY0483	486733	487347	cyoC	cytochrome
STM2043	6.18	STY4467	4352725	4354416		putative so
STM4530	36.27	STY2543	2376729	2377190		conserved
		STY3441	3285273	3285737	gatA	PTS system
STM2193	12.1					
STM3548	60.07	STY1741	1661861	1662598		Orf 245 pr
STM4304	8.3	STY2753	2590945	2592294	xseA	exodeoxyri
STM1567	25.7	STY0546	554197	554649		putative me
STM4445	34.12	STY4772	4632274	4633437		hypothetica
STM1456	13.07	STY3368	3210588	3211361		putative me
STM4556	9.12	STY3400	3245856	3246992	ygjO	conserved
STM0625	32.18	STY3448	3292494	3292889	yraN	conserved
STM2318	3.94					
STM0182	8.15	STY1898	1792901	1793710		putative req

		STY2530	2365663	2366562	conserved
		STY2684	2518837	2519412	putative lipi
STM0049	9.7	STY4809	4669470	4670234 miaE	tRNA hydr
STM0322	7.9	STY2914	2797347	2798024 ygaE	putative tra
		STY4868	4730107	4731279 iadA	probable is
STM0399	13.76	STY4944	4804460	4805050 sthA	putative fir
STM2284	13.41	aSTY4143			
STM1767	12.39	STY1297	1255747	1256760	putative req
STM3629	39.35	STY1368	1323500	1324465 sapB	peptide tra
STM4117	16.97	STY3825	3685526	3686362 rhaS	L-rhamnos
STM2253	7.78	STY3882	3739595	3740503 yihG	putative ac
STM3563	11.18	STY0848	842149	842907 ybhP	conserved
STM0664	23.7	STY0830	827692	828378 bioD	dethiobiotir
STM3178	24.34	STY0104	102087	102464 apaG	CorD prote
STM4039	32.09	STY3836	3693908	3695080 yiiG	putative lipi
STM4408	10.8	STY0692	688704	689171 ybeA	conserved
STM0983	7.94	STY0282	299187	299942 gloB	probable h
STM0376	4.19	STY0978	973145	974428 aroA	3-phospho
STM2354	70.5	STY2585	2420531	2421313 argT	lysine-argir
STM1389	27.06	STY2871	2740983	2741321 smpA	small prote
STM0623	51.53	STY0068	69706	69999 citD2	citrate lyas
STM2752	38.38	STY0394	402769	402993	hypothetica
STM3884	45.37	STY1986	1873161	1873325	hypothetica
STM1512	18.97	STY4209	4074184	4076226 prlC	oligopeptid
STM2560	58	aSTY0750			
STM0626	28.14	STY4501	4394294	4395013 dcuR	two-compo
STM1908	24.21	STY2144	1994161	1994400 yecH	conserved
STM2146	11.31	STY1377	1330859	1331920	putative me
STM3983	11.88	STY2830	2692917	2693396 rseC	sigma-E fa
STM0028	11.09	STY1176	1138300	1139133 csgG	assembly/t
STM3826	9.52	STY3096	2962058	2964814 barA	sensor prot
STM0324	99.1	aSTY4835			
STM3210	24.39				
STM0665	42.9	STY4338	4217480	4217704	hypothetica
STM3807	11.24	STY3475	3321251	3321877 ftsJ	cell divisio
STM4044	27.32	STY2257	2084401	2085513 pduQ	putative pro
STM2064	42.67	STY4477	4363333	4364004 nrfC	cytochrome
STM0096	19.84	STY2183	2026681	2027148 fliL	FliL protein
STM3594	19	STY1549	1500659	1502710 dcp	dipeptidyl c
STM0585	4.71	STY3744	3601247	3603091 btuB	vitamin B1
STM0958	6.33	STY0655	655371	656936 ahpF	alkyl hydro
STM0851	49.04	STY1306	1267159	1268066 oppC	
STM2977	8.89	STY3798	3663229	3664821 ydeV	putative su
STM1368	11.75	STY3592	3444898	3445710 ysgA	putative hy
STM3912	30.88	STY3608	3461790	3463952 uvrD	DNA helica
STM3458	44.86	STY0100	98069	98599 yabF	putative N/
STM3749	33.88	STY3215	3083507	3084091	conserved
STM1185	29.93	STY2179	2022808	2023515 fliH	flagellar as
STM2440	27.15	STY2666	2504048	2505019 cysK	cysteine sy
STM3003	37.47	STY2668	2505709	2507437	
STM2445	9.29	STY1333	1290578	1291339	hypothetica
STM1975	12.43	STY3080	2943509	2944180	conserved

STM4541	25.6	STY3077	2941776	2942138	putative 6-φ
STM3205	9.12	STY3866	3722353	3723228	hypothetica
STM0736	27.14	STY2121	1972780	1973172	flagellar pro
STM2494	3.66	STY1409	1359382	1360365	putative me
STM4491	3.47		1467383	1468555	hypothetica
STM1299	24.13		1815290	1816459	glutamate (
STM3771	23.55	STY1959	1850137	1851105	PTS system
STM2907	37.89	STY1984	1872287	1872937	serine/threi
STM0994	24.18	STY2108	1959515	1959967	DATP pyro
STM2352	28.87	STY0921	913327	913995	arginine tra
STM3776	10.36	STY0568	574305	575552	probable m
STM4248	55.15	STY1000	998923	1000113	aspartate a
STM0597	10.49	STY0632	633715	634851	fepE
STM0546	38.9	STY0371	380898	383459	stbC
STM2242	5.8	STY1507	1465441	1466622	outer mem
STM1679	50.07	STY1304	1264354	1266102	putative an
STM1539	66.65	STY1913	1806430	1807548	periplasmic
STM0343	23.18	STY1957	1846482	1848083	conserved
STM1489	3	STY1419	1368017	1371541	probable p
STM2894	6.45	STY1385	1338604	1339533	putative ox
		STY0543	549979	550815	probable se
STM1373	53.16	STY3124	2991494	2992699	possible ar
STM2706	17.49				
		STY0291	306935	307759	hypothetica
STM2758	8.75	STY0446	456394	457365	protein-exp
		STY3319	3166378	3167556	probable h
STM1514	37.7	STY2951	2828899	2829396	ygaD
STM3886	11.5	STY4164	4022959	4023966	putative lac
STM3601	16.65				
STM2562	12.81	STY4057	3918003	3918887	putative be
STM4053	34.08				
STM1256	10.91	STY3152	3022923	3024125	ygeD
STM2474	71.3	STY3236	3100337	3102328	tktA
		STY2967	2844595	2845065	hycl
STM1188	16.89	STY4155	4013855	4014565	yiaF
STM2791	27.96	STY4116	3978586	3980124	aldB
STM4446	41.2	STY4017	3879146	3880255	putative tra
STM2414	12.39	STY3119	2987534	2988244	fucR
			3048066	3048647	stdA
STM3930	30.25	STY2435	2265246	2266715	lysP
STM0618	6.76	STY2444	2275328	2275993	putative me
STM1895	19.62	STY4063	3923120	3923575	dut
STM4283	25.66	STY4363	4236009	4236341	rplV
STM4385	11.07	STY4721	4584061	4585065	hflC
		STY4384	4246242	4246625	rplQ
		STY0937	930310	931428	ybjY
STM1992	4.39	STY4723	4585444	4586742	purA
STM2959	62.98	STY3429	3272367	3273512	conserved
STM2529	14.73	STY3320	3167546	3168532	hybA
STM2752	30.95	STY2954	2831756	2832727	srlE
STM3768	40.87	STY4785	4643662	4644780	hypothetica

		STY4926	4786070	4787452	radA	putative DN
STM0498	50.91					
		STY2966	2843759	2844538		putative ex
STM0264	9.52	STY2443	2274082	2275263	yeiO	sugar efflu;
STM2421	3.5	STY2300	2128914	2130227	rfbH	putative de
STM2098	11.18	STY2302	2131338	2132111	rfbF	glucose-1- π
STM2402	11.8	STY2381	2212679	2213290	stcA	putative fir
STM1576	66.19	STY1287	1242299	1243696	narK	nitrite extru
STM3857	5.8	STY4130	3992233	3993231		putative ca
STM3478	8.56	STY4236	4103634	4104260		putative me
STM3681	10.11	STY3516	3359426	3360310		possible kir
STM3162	61.82	STY3406	3252690	3253352		putative me
STM1991	20.48	STY1718	1639257	1639673	sseE	putative pa
STM2649	17.26	STY1152	1113151	1113657	scsD	secreted pi
STM2885	5.23	STY0824	821251	822771	hutH	histidine ar
STM2015	58.04	STY0878	868409	869329	ybiS	putative ex
STM0671	49.99	STY3213	3080990	3082168	visB	2-octapren
STM3300	7.73	STY1137	1101063	1101914	hpcB	3,4-dihydro
STM0787	8.31	STY0820	816437	817660	hutI	imidazoloni
STM4347	4.81	STY0865	856198	858420		putative me
STM3544	10.27	STY1463	1414042	1414440	ugtL	putative me
STM2206	21.05	STY3438	3282983	3283789		PTS-transp
STM3260	15.96	STY3365	3207757	3208428		possible lip
STM2055	58.13	STY2706	2538722	2539057	eutS	putative etf
STM3349	35.56	STY2534	2368909	2369166	pmrD	polymyxin I
STM4579	4.81	STY3916	3776797	3778167	glmU	UDP-N-ace
STM2959	26.21	STY0463	469625	469867	xseB	exodeoxyri
STM0113	40.01	STY2930	2804753	2804998	nrdH	putative gl
		STY0496	503315	503713		conserved
STM0766	91					
STM0929	19.94	STY4369	4238474	4238788	rplX	50S riboso
STM0401	30.14	STY4367	4237674	4237928	rpsQ	30S riboso
		STY4760	4617488	4617874	ytfH	conserved
STM3618	37.97	STY2382	2213488	2213769	yehE	conserved
STM0658	20.91	STY2139	1990631	1990873	araH	
		STY1086	1065862	1066425		putative lip
STM3577	18	STY2846	2709655	2709978	yfiM	conserved
STM4248	28.53	STY1679	1607046	1607282		conserved
STM0945	35.04	STY3774	3639438	3639650	rpmE	50S riboso
STM1460	28.31	STY4500a	4393711	4393977		hypothetica
STM4091	14.28	STY0491	496233	497504	clpX	ATP-deper
STM1513	77.46	STY1323	1279968	1280150		conserved
STM2935	30.05	STY1849	1762007	1762189		conserved
STM1868	39.57					
			aSTY4610			
STM3685	32.69	STY0262	277638	277892	rof	ROF protei
STM0031	45.04	STY0017	17049	17492		putative me
STM3816	96.39	STY2477	2308342	2308554	ccmD1	heme expo
		STY0391	400126	400227		hypothetica
STM3920	45.05	STY1125	1090875	1090985		hypothetica
STM0194	36.43	STY4246	4111579	4111713		hypothetica
STM2791	17.08	STY1982	1871727	1871966		conserved

STM3698	17.25				
STM2589	11.49				
STM4489	32.61				
STM4125	5.82				
STM4417	6.94				
STM4103	17.67				
STM3973	7.89				
STM3334	7.12				
STM2702	17.73				
STM0286	17.63				
STM0322	18.36				
STM2560	64.73	STY0750	751779	753260	PTR2-fami
STM1347	56.9	aSTY0801			
STM3626	41.64	STY0887	880435	882306	hypothetica
STM0981	7.09				
STM1951	45.41	aSTY0924			
STM2620	58.73	STY2052	1916228	1916827	hypothetica
STM0546	5.94	STY3614	3467657	3469666	possible ex
STM0084	12.7	STY2355	2190874	2191476	putative ex
STM2515	9.86	STY2756	2597945	2599525	conserved
STM0725	10.6	STY3006	2878765	2879787	pathogenic
STM2151	27.81	STY0206	215914	216648	chaperone
STM2814	9.08	STY2104	1956684	1957358	putative m
		STY2357	2191793	2192488	hypothetica
		aSTY2761			
STM0177	6.1	STY3065	2926948	2927865	conserved
STM2514	23.24	STY0295	311664	311762	hypothetica
STM3633	14.35	STY0332	341669	342163	safA probable liq
STM3845	15.21	STY2350	2188394	2189170	putative ex
		STY2731	2567612	2568880	putative pe
STM4533	6.87	STY2888	2766884	2768056	putative ba
STM3983	10.07	STY1364	1322110	1322535	hypothetica
STM3040	33.67	STY1600	1541983	1542177	hypothetica
		STY1617	1553459	1554280	hypothetica
STM3446	11.98	STY2749	2586659	2587348	conserved
STM0116	16.02	STY3924	3787485	3788255	putative sh
STM1871	3.85	STY1413	1363893	1365452	hypothetica
STM3241	24.82	STY1602	1542833	1543120	hypothetica
		STY1619	1554956	1556071	hypothetica
		STY1636	1568099	1568677	putative ba
STM2521	5.33	STY4630	4496774	4497838	hypothetica
		STY4535	4421920	4422138	hypothetica
		STY4566	4445726	4446088	putative m
STM0268	8.46	STY4584	4460652	4461266	conserved
STM3445	8	STY4601	4474723	4475823	putative re
STM2345	8.49	STY4413	4279819	4280682	conserved
STM1868	38.53	STY4610	4482721	4483128	putative ph
STM3817	17.05	STY4637	4503086	4503670	putative ex
		STY4544	4428630	4429100	pilP pilus assen

STM1922	6.85	STY4563	4444208	4444966	putative me
		STY4580	4458133	4458522	putative me
STM1997	58.87	STY4597	4472479	4473753	samB UV protecti
		STY1092	1071410	1071919	sulA cell divisior
STM2442	17.98	STY4423	4291869	4292759	malG maltose tra
STM2343	4.48	STY0164	168274	169476	hofC protein trar
STM4052	7.14	STY0195	205292	206062	yadH ABC transp
STM0590	48.11	STY0219	230387	231184	fhuC ferrichrome
STM0512	51.57	STY0273	284675	285313	yaeE putative AE
STM2164	3.71	STY3555	3398469	3400490	yhdA putative lipi
STM2562	20.96	STY0703	699294	701222	putative sig
		STY0722	720111	720911	nagB glucosamir
STM0545	51.19				
STM2774	41.65	STY3939A	3804326	3804466	rpmH 50s ribosor
STM2204	63.65	STY3925	3788304	3789677	probable P
STM3669	7.92				
STM3518	19.84	STY3933	3796779	3797363	conserved
STM2190	13.12	STY3894	3753726	3754616	rbsB D-ribose-bi
		STY4082	3939632	3940846	waaL O-antigen l
STM1009	16.42	STY0248	261798	262283	ompH outer mem
STM1909	19.72	STY0141	142759	143124	ftsL cell divisior
STM0297	48.71				
STM0615	5.43	STY2910	2791739	2793007	ygaF putative G/
STM0595	15.47	STY1583	1531158	1531979	putative se
STM3551	8.22	STY4359	4233956	4234561	rpID 50S riboso
STM1130	25.58	STY4316	4194492	4194662	yhfL conserved
STM3766	62.18	STY4288	4162727	4163653	conserved
STM3411	33.91				
		STY4335	4215901	4216780	yheT
STM2497	9.02	STY4298	4176228	4177160	heat shock
STM2936	30.77	STY1867	1775546	1775860	putative lipi
STM3966	43.57	STY1829	1746826	1748022	putative req
		STY2331	2159475	2160614	wza putative po
STM3792	12.59				
STM0428	42.87	STY4257	4121171	4122241	ugpC sn-Glycero
STM3211	4.51	STY2333	2162954	2164810	asmA putative ou
		STY4616	4487247	4487693	putative ph
STM1914	18.05	STY0310	324392	325159	hypothetica
		STY0358	367097	368152	dinP hypothetica
STM3963	7.84	STY2324	2153034	2154247	wcaD
STM4157	56.18				
STM3844	32.3				
STM3201	20.61				
STM2589	58.98				
STM2001	15.79	STY1106	1081781	1083271	putative tra
		STY0902	896385	897005	putative tet
STM2600	71.43				
STM2272	13.45	STY0928	918214	919227	putative ox
STM2984	18.99	STY2789	2645566	2646780	putative L-c
STM1421	14.55				
STM0141	16.76	STY2752	2589318	2590790	guaB inosine-5'-r

STM2684	14.59	STY0987	983712	984944	ycaQ	
STM0912	47.88					
		STY2973	2849437	2851263	hycC	formate hy
STM3521	5.16	STY3047	2913358	2914785		conserved
STM3076	70.98	STY2711	2543707	2545707	tktB	transketola
STM0272	21.08	STY0943	934397	936673	clpA	ATP-deper
STM4081	7.35	STY0991	986132	987025		conserved
STM0914	20.01					
STM1828	17.93					
STM2174	12.53	STY4439	4309084	4310082	yjbN	conserved
STM4494	23.84	STY4781	4640729	4641031		hypothetica
STM2316	18.16	STY2548	2382686	2384527	nuoL	NADH dehy
STM4385	41.42	STY2574	2411709	2412152		putative su
STM1460	8.11	STY1153	1113790	1115031	agp	glucose-1-p
STM2774	14.17	STY1861	1770057	1770647		putative AE
STM0013	24.39	STY1148	1109088	1110080	cbpA	curved DN
		STY1088	1066946	1067464	fabA	D-3-hydrox
STM2670	11.76	STY2761	2611836	2612810	sinI	putative ex
STM0543	28.67	STY0031	29998	30516	bcfF	fimbrial sut
STM4551	14.77		2033361	2035064		putative me
		STY2275	2098342	2100684	sopA	
STM2746	10.84		2337200	2337894		
STM2851	26.58	STY2196	2035491	2036420		
STM3235	32.16	STY2278	2104261	2105175		putative tra
STM0714	5.76	STY2509	2342844	2344034		putative tra
STM1880	8.26	STY2545	2378234	2379238		putative rec
STM2959	7.42	STY2588	2423668	2424771		conserved
STM0095	27.39		1183119	1184078	rluC	ribosomal l
STM2497	19.25	STY1213	1168522	1168938	flgB	putative fla
STM4009	6.46	STY4352	4227831	4229945	fusA	elongation
STM0284	13.89	STY0373	384266	384802	stbA	probable fir
STM0622	11.96	STY0184	193338	194609	ygbK	conserved
STM0217	4.67	STY0484	487337	489328	cyoB	cytochrome
STM2182	48.62	STY4470	4355905	4356594		putative me
STM3168	7.25	STY4400	4263539	4264468	metA	homoserine
STM0452	6.18	STY0161	165611	166354	yacF	conserved
		STY2531	2366559	2368205	pqaB	melittin res
STM1360	50.76					
STM2810	7.53	STY1686	1612708	1613805	nemA	N-ethylmal
STM2316	9.37	STY0435	444752	446071	brnQ	branched c
STM1410	28.92		1634467	1635141		putative pa
STM3556	16.98	STY4424	4292774	4294318	malF	maltose tra
STM2263	9.12	STY0367	376733	377983	proA	gamma-glu
STM4091	9.94	STY0188	197204	198064	speE	spermidine
STM1082	15.51	STY2208	2045940	2046737		conserved
STM3129	9.21	STY2644	2478574	2479539	glk	glucokinase
		STY2537	2371590	2372447	menB	naphthoate
STM1301	21.37	STY2525	2360194	2360619		conserved
STM4404	18.58	STY2792	2648547	2649350	suhB	extragenic
STM3603	12.2	STY4811	4670479	4670967		putative ex
STM4050	15.32	STY0583	590950	591672	ybbF	conserved

STM0921	69.5				
STM1187	11.03	STY4917	4776186	4777736	conserved
		STY4095	3953100	3954119	gpsA
STM3264	3.93	STY4193	4056943	4059003	putative me
STM3534	29.76	STY4282	4154270	4156663	malP
STM0421	33.95	STY2647	2482830	2483828	putative ior
STM4120	11.23	STY2721	2558007	2559134	dapE
STM0076	15.17	STY0957	947280	947774	lrp
STM2551	6.46	STY0618	617263	618510	ybdG
STM3903	12.09	STY4776	4637257	4637880	yjga
STM2684	15.7		4760097	4760636	dnaT
STM4211	20.36	STY4060	3920902	3921618	rph
STM0777	17.2	STY3391	3235872	3236378	mug
STM4112	32.06	STY3437	3281569	3282996	
STM4009	5.42	STY4059	3919913	3920776	
STM2042	4.68				
STM2406	24.34	STY0136			
		STY3011	138973	139467	ilvH
STM0841	3.63	STY0779	2884590	2885381	spaR
STM3750	18.93	STY4498	776527	779328	sucA
STM4098	12.72	STY2862	4388954	4390384	melB
STM1497	4.14	STY2796	2731953	2732510	yfjA
STM1947	11.18	STY2281	2652431	2653444	asrC
STM1572	45.4	STY0365	2107398	2108702	hisD
STM4104	10.15	STY0539	374283	375335	phoE
		STY1079	546660	548311	ushA
		STY4519	1056001	1057011	pyrD
STM2444	56.3	STY3808	4408055	4408870	phoN
STM2314	10.51	STY0714	3670951	3671940	sbp
STM2126	13.79	STY0764	709510	709983	
STM4592	8.53	STY2244	763368	764078	
		STY4510	2073815	2074516	pduB
STM0891	49.51	STY2159	4401582	4402982	
STM3607	37.12	STY1386	2004839	2005591	
STM2689	1.63	aSTY4459	1339652	1340557	
STM0624	48.72	STY0067			
STM3084	41.37		68633	69676	citC2
		STY3709			
STM4477	35.95	STY2782	3558479	3560068	purH
STM4524	12.6	STY2247	2640339	2641622	yfhl
STM4325	20.03	STY4500	2076899	2077420	pduE
STM0618	12.74	STY2140	4392224	4393564	dcuB
STM4483	41.73	STY1234	1991102	1991659	
STM3353	20.85	STY1400	1188893	1189627	fabG
STM2668	3.45	STY2854	1352022	1352624	
STM2816	14.97	STY0005	2724137	2725297	pheA
STM0864	39.27	STY3988	5114	5887	yaaA
STM0071	26.18	STY1648	3853107	3853892	
STM1570	75.5	STY3839	1575901	1576260	
STM4347	7.95	STY3590	3697528	3700578	fdoG
STM3705	6.04	STY3623	3442308	3443738	yigN
			3476682	3477851	hemX

STM4055	10.55	STY3226 STY2184		3092747 2027153	3093826 2028157	fba fliM	fructose 1,6- flagellar mo
STM2367	10.27		STY2665	2502914	2503675	cysZ	putative su
STM1536	51.8	STY1916		1810085	1810681	hyaD	hydrogenas
STM0145	8.56	STY3468		3312124	3313626	nusA	L factor
STM3243	31.76	STY3109		2976309	2977598	sdaC	putative se
STM3171	56.96	STY3820		3680729	3682036		possible int
STM1361	8.16	STY3584		3437411	3438190	tatC	sec-indepe
STM0692	6.69	STY3601		3455088	3456917	recQ	ATP-deper
STM1893	24.63	STY3603		3458035	3458502	yigI	conserved
STM4578	11.97	STY0533		539940	540902	hemH	ferrochelate
STM3445	98.92	STY3739 STY2178	STY4353	3589422 2021820	3590660 2022815	tufB fliG	elongation flagellar mo
STM2384	4.06	STY3075		2937829	2939541	cysI	sulfite redu
STM4496	17.64	STY3137		3012345	3012980	ppdB	prepilin pep
STM2374	26.87	STY1375		1329002	1329316	pspE	phage shock
STM3879	9.34	STY0547		554646	555563		putative me
STM1480	10.59	STY0574		581149	581934		conserved
STM3770	49.14						
STM1952	13.21	STY1435 STY1340		1386954 1301009	1387634 1301599		putative arr GTP cyclot
STM1580	69.8	STY1291		1250066	1250743	narI	respiratory
STM4062	5.22	STY1929		1821412	1823145		putative Na ⁺
STM2129	12.88	STY1963 STY1995		1853695 1878054	1854315 1879214		putative me
STM3618	12.91	STY2115		1965952	1966731	cutC	putative co
STM2332	6.03	STY0535		542023	543327	gsk	inosine-gua
STM1791	28.16	STY1530		1485050	1486111	hyaF2	hydrogenas
STM0256	13.08	STY1537		1491328	1492200		putative req
STM3241	71.57	STY0973		965607	967889	pflB	formate aci
STM0061	64.64	STY0670		668594	670123	citF	citrate lyas
STM3320	19.28	STY1501		1457501	1457830		putative se
STM4106	4.25	STY1471		1421481	1424462	srfB	putative vir
STM0174	6.36	STY4205		4070227	4071579	gor	glutathione
STM3747	12.31	STY4166		4025298	4026622		
STM4113	12.53						
STM0850	8.37	STY4064		3923556	3924779	dfp	conserved
STM3742	26.04	STY3094 STY2867		2958419 2736857	2960653 2737414	relA	GTP pyrop
STM1154	60.17		STY0414	427110	428309		hypothetica
STM0438	11.03		aSTY0477; aSTY0478; aSTY0476				possible ef
STM2127	11.07	STY0507		513755	515041	amtB	probable ai
STM2425	7.28						
STM4086	11.76	STY4138		4002503	4003957	xyIB	xylulose kir
STM0126	1.93		STY4105	3963524	3966847	sapB	putative au
STM1556	18.36	STY4745 STY0421		4605311 432346	4605586 432891	yjfY aroL	conserved
STM2406	34.95	STY0460		465808	466782		shikimate k
STM4100	28.99		STY3333	3176677	3177864	metC	putative ox
STM2327	31.65	STY2969		2845465	2846232	hycG	beta-cystat
STM0160	4.62	STY4134		3996312	3998339	malS	formate hy
STM4468	42.15	STY3515		3358962	3359429		alpha-amyl conserved

STM0231	10.96	STY3446		3289558	3290421	conserved
STM2013	20.8	STY3326		3172165	3172659	putative me
STM0191	31.75	STY0396		404257	406347	foxA
STM3229	45.35	STY2925		2802217	2802543	conserved
STM4448	21.2	STY2436		2266905	2267768	yeiE
STM1787	2.54		aSTY0405			putative tra
STM4106	7.22	STY2413		2244749	2245633	cdd
STM0478	8.13	STY2294		2122074	2123018	rfbN
STM3747	5.97	STY2370		2200548	2201600	fbaB
STM3384	17	STY2404		2236307	2237245	yohl
STM2530	18.15	STY4381		4244143	4244532	rpsK
STM2107	3	STY2320		2149592	2150557	fcl
		STY2397		2229320	2231050	dld
STM0055	4.57	STY0283		299977	300699	conserved
STM2913	6.69	STY4176		4035317	4036996	yhjU
STM1569	12.65	STY4265		4129571	4130059	putative ac
STM0007	6.74	STY3486		3329421	3330680	murA
STM2344	39.56	STY4741		4602503	4602967	sgaA
STM3335	43.52	STY4806		4667299	4667751	conserved
		STY4934		4795360	4795833	creA
STM0937	23.04	STY4052		3914577	3915200	gmk
STM2898	13.82	STY3476		3321965	3322297	conserved
STM3314	44.57	STY3408		3253884	3254252	putative ex
STM0209	26.25	STY3529		3370486	3371556	degS
STM2919	12.93	STY3445		3288627	3289400	gatR
STM4283	7.99	STY3405		3250996	3252240	probable m
STM4467	17.09	STY0677		676919	677491	pagP
STM2069	20.99	STY0192		203004	203540	hpt
STM2767	19.28	STY0762		762594	763364	
STM2075	9.51	STY4704		4562588	4563565	yjeA
STM2290	8.53	STY1715		1637287	1637976	sseG
STM2253	21.44	STY1539		1493553	1494218	putative me
STM0609	7.2					
STM0807	30.53	STY0843		838807	839514	putative me
STM0726	13.24					
STM4520	20.61					
STM4040	6.67					
STM4264	34.8	STY0512		519213	519473	rpmE2
STM4154	25.36	STY3104		2971865	2972194	yqcC
STM3088	44.84		STY3242	3107037	3107228	hypothetica
STM1378	29.37					
STM2109	39.78	STY4469		4355502	4355912	putative me
STM4014	34.85					
STM3610	33.47	STY4472		4358279	4358593	putative me
STM0913	53.1					
STM1510	26.11	STY4376		4241519	4241698	rpmD
STM2628	100					50S riboso
STM2339	28.01	STY4912		4773172	4773351	hypothetica
STM2995	42.32	STY1496		1453776	1453991	conserved
STM1721	24.16	STY4622	aSTY3680	4489729	4489932	putative ph
STM0059	51.01	STY0672		671038	671334	citD
STM0954	33.33	STY0951		940884	941102	infA

STM1102	25.24	STY4621	4489510	4489725	nucE2	possible se
STM1901	12.2	STY0162	166354	166974	yacE	conserved
STM1284	20.73	STY0303	315833	316369		probable lip
		STY0199	208380	209234	panC	pantoate:bi
STM1399	18.14	STY0422	432918	433109	yaiA	conserved
STM4596	29.36	STY0021	23341	24045		conserved
STM1913	30	STY3332a	3176418	3176567		conserved
STM3255	47.74	STY1983	1872077	1872268		putative se
STM3007	56.91	STY1480	1433112	1433333		putative lip
STM4364	42.65	STY0513	519479	519619	rpmJ2	putative 50
STM1997	41.75	STY1968	1857374	1857517		conserved
STM0131	29.88	STY1495	1453538	1453681	rpsV	30S riboso
STM2970	25.16	STY0813	809955	810104	ybhT	putative ex
STM1353	9.34					
STM2787	33.35					
STM2275	20.72					
STM3730	8.57					
STM0120	4.3					
STM0706	6.72					
STM2857	8.97					

STM2448	11.04					
STM2110	8.41					
STM1031	65.98					
STM1033	40.08					
STM2961	63.16	aSTY3098				
STM1826	67.53	aSTY3110				
STM2589	69.2					
STM1422	9.59	STY1499	1456097	1456810		hypothetica
STM0643	39.76	STY1605	1546055	1546219		hypothetica
STM3818	32.15	STY1621	1557049	1557387		putative me
STM2586	30.78	STY1639	1570219	1570836		putative ba
STM1987	12.33	STY2005	1885617	1886747		conserved
		STY2028	1901062	1901520		putative ba
		STY1607	1546722	1547252		hypothetica
STM1384	26.31	STY1623	1557835	1558299		hypothetica
STM1995	45.58	STY1649	1576317	1577468		outer mem
STM1578	19.2	STY2007	1887201	1887428		putative DN
		STY2030	1902663	1903211		putative ba
		STY3192	3057550	3058080		hypothetica
STM2730	35.24	STY1014	1010618	1011499		putative DN
		STY1041	1026186	1026467		putative pr
		STY1057	1037045	1037608		putative ba
STM0685	13.58	STY1073 STY2013	1050023	1050541		hypothetica
		STY3277	3133828	3133947		hypothetica
STM3351	93.2	STY3531 STY0063	3372342	3373643	oadB	oxaloaceta
STM0908	29.84	aSTY1043				
STM0189	13.73	STY1059	1038768	1039208		putative ba
STM1512	21.27	STY2034 aSTY1053	1904501	1904869		putative ba

STM2890	25.57	STY3279	3134334	3134630	hypothetica	
		STY2075	1931940	1932128	conserved	
STM2746	26.79	STY2353	2190285	2190764	putative ex	
		STY4524	4414008	4414313	hypothetica	
STM1614	16.39	STY4548	4432552	4433028	putative me	
STM1795	14.64	STY4568	4446469	4447122	possible ex	
STM0941	18.29	STY4585	4461477	4462019	hypothetica	
STM0350	22.64	STY4602	4475820	4476350	putative ph	
		STY4414	4280699	4281538	hypothetica	
		aSTY4613	aSTY3689			
STM1888	9.86	STY1906	1799363	1800310	prxA	
STM0428	46.92	STY0123	124825	125532	yabJ	
STM1132	21.96	STY3519	3361024	3362514	nanT	
STM2851	8.49	STY3552	3395510	3396010	mreD	
STM1606	2.98	STY0237	247152	249824	glnD	
STM1488	53.29	STY0720	717672	718892	nagC	
STM0476	64.72		STY3569	3413104	3413529	acrE
STM2285	14.32	STY0260	275810	276199	conserved	
STM3176	26.98		aSTY1545			
STM2838	21.21	STY2172	2016739	2017152	yedD	
STM2578	6.86	STY4085	3942888	3943820	rfaD	
STM0591	17.91	STY2229	2061144	2061937	cbiK	
		STY2171	2015215	2016699	amyA	
STM3782	16.82	STY2236	2065813	2066418	cbiE	
PSLT054	61.03	STY2205	2043481	2044749	umuC	
STM0648	2.93	STY0055	53852	56686	ileS	
STM0918	29.95	STY0095	94586	94876		
STM3078	13.23	STY3490	3332126	3332677		
STM1812	11.69					
STM1255	30.8	STY1087	1066679	1066846	rmf	
		STY1143	1106421	1107359		
STM0222	3.81	STY1188	1148222	1150765	mdoH	
STM0463	11.89	STY1239	1193288	1193929	tmk	
STM0393	44.91	STY1260	1215333	1216241		
STM4051	39.48	STY1168	1130754	1131446		
STM3370	20.42	STY1226	1179342	1182545	rne	
STM1275	14.92	STY1252	1205600	1206139		
STM2292	42.53					
STM3765	19.84	STY4239	4105054	4105650	yhhF	
STM3541	10.38	STY4918	4777978	4778775	deoC	
STM3323	6.98	STY1857	1766581	1767369	aadA	
		STY1827	1744888	1745772	yeaD	
STM3690	8.88					
STM4101	17.23	STY0002	337	2799	thrA	
STM2238	12.75					
STM1179	19.72	STY4902	4764093	4764551	conserved	

STM2130	26.3	STY4936	4796535	4797959	creC	putative tw
STM1976	18.84		327721	328158		hypothetica
STM0169	26.72					
STM3058	4.75	STY2909	2790727	2791713		gab protein
STM3183	5.62	STY1127	1092736	1094100	copS	histidine kir
STM3982	20.9	STY2621	2455221	2456531		putative 3-l
STM2253	8.2	STY2661	2498394	2499392	yfeH	putative me
STM3794	13.33	STY2716	2548075	2549373		putative ex
STM3761	78.73	STY0948	938216	938893		conserved
STM3504	9.96	STY0981	976302	977975	rpsA	30S riboso
STM2620	97	STY1034	1022132	1022734		putative ba
STM2565	17.44	STY0953	941414	942118	aat	leucyl/pher
STM4058	6.23	STY2811	2670261	2671646		putative se
STM1285	13.79	STY3847	3704925	3705236	ygjN	conserved
STM2523	22.89	STY3758	3619134	3619796	talC	putative tra
STM2477	9.92	STY2989	2865343	2865795		hypothetica
STM0194	19.56	STY4687	4549216	4549692		FxsA prote
		STY2725	2562415	2563128	purC	phosphorib
STM3201	11.33	STY2781	2639453	2640238	sseB	SseB prote
STM0168	6.08	STY2816	2679294	2680655		putative PT
STM2973	50.26	STY3830	3690386	3691534		alcohol def
STM3660	11.32	STY3784	3649581	3651086	glpK	glycerol kin
STM3789	10.16	STY3751	3609899	3610672	argB	acetylgluta
STM3319	9.34	STY2513	2347856	2349484	glpA	anaerobic (
STM4018	10.93					
STM1575	3.48	STY4884	4745128	4748637	hsdR	subunit R c
		STY2131	1984165	1985094	motB	motility pro
PSLT042	15.67	STY1788	1708995	1709531		putative me
		STY0402	411771	413222	prpD	PrpD prote
PSLT055	16.1	STY4433	4304371	4304979	lexA	LexA repre
STM3328	5.88	STY2983	2859262	2860179	sitA	Iron transp
STM1212	16.43	STY1677	1605896	1606363	slyB	outer mem
STM1584	50.44	STY4754	4610391	4611794	cycA	D-serine/D-
STM1133	8.02					
		STY4787	4645474	4647447		putative Bg
STM4104	3.8	STY4761	4617932	4619875	cpdB	2',3'-cyclic-
STM2928	17.8					
STM2810	5.42	STY4794	4652879	4654297	treB	PTS system
STM2746	3.58					
STM3493	13.6					
STM0850	17.98	STY1864	1772234	1773211		putative inn
STM2165	35.91	STY1571	1521003	1521905		putative AE
STM3541	52.11	STY3978	3844293	3845630	dsdX	DsdX perm
STM1392	12.34	STY3951	3819535	3822270	torS	Two-compr
STM1792	37.4	STY0392	400342	401745		probable te
STM1352	63.5	STY0087	90278	91564	fixC	FixC protei
STM3693	38.33	STY0174	178463	179227	pdhR	pyruvate de
STM1693	4.44	STY4434	4305158	4306483	dinF	putative DN
STM1487	12.33	STY2560	2395148	2396086	lrhA	NADH dehy
STM0771	19.61	STY1768	1690744	1691493	btuD	vitamin B12
STM0875	19.39	STY0898	891987	892595	ybjG	putative pe
STM0162	32.73	STY1664	1592799	1593377		putative fer

STM0964	63.48	STY1565	1512843	1515281	dmsA1	putative dir
STM0018	10.47	STY1562	1511563	1512273		conserved
STM1675	9.33	STY3991	3856485	3857498		hypothetica
STM1576	12.66	STY2820	2683501	2684697		putative tra
STM1548	18.66	STY0442	451765	452829	queA	S-adenosyl
STM2482	23.84	STY4409	4277287	4277826		conserved
STM2323	11.44	STY2599	2435482	2436294	truA	tRNA pseu
STM0342	16.03		391048	391575		possible tra
STM3666	9.24	STY2772	2624844	2625770		putative po
STM0984	21.08	STY0503	509626	511398	mdlA	putative AE
STM1107	12.37	STY0614	613687	614247	ykgB	putative me
STM4522	33.96	STY1782	1704154	1704468		putative me
STM3772	8.12	STY4767	4624308	4624946	msrA	peptide me
STM2719	16.93	STY4815	4675956	4676438	holC	DNA polym
STM0821	9.66	STY2841	2703013	2704050	yfiF	putative RN
STM0747	10.63	STY3378	3217921	3219600		putative ex
STM0973	71.19	STY3423	3263936	3266230	tdcE	probable fc
STM2018	10.34	STY3457	3297440	3298435		putative pro
		STY3770	3635967	3636284	metJ	repressor c
STM0861	6.2					
		STY0514	519675	520145		putative me
STM1524	43.54	STY2911	2793029	2794477	gabD	succinate-s
STM2062	4.54					
		STY2832	2694349	2694999	rseA	sigma-E fa
STM4098	16.28	aSTY3370				
STM0593	4.21	STY4181	4039950	4042574	yhjO	putative po
STM2212	8.46	STY3452	3294919	3295437		conserved
STM1979	22.53	STY1701	1627339	1627986	yscR	putative typ
STM0004	11.58	STY2740	2576788	2577825	purM	phosphorib
STM0911	5.43	STY1160	1122071	1123579	putP	sodium/pro
STM2278	13.15	STY2933	2807533	2808492	nrdF	ribonucleos
STM3570	7.24	STY0292	307746	308648		hypothetica
STM2882	1.75	STY3005	2876689	2878746	sipA	pathogenic
STM4058	13.54	STY4295	4170982	4172334	envZ	two-compo
STM3628	47.45	STY1357	1318552	1319442	sapC	peptide tra
STM3685	9.58	STY3826	3686650	3688119	rhaB	rhamnuloki
STM1950	9.5	STY0598	603450	604172	fimY	fimbriae Y |
STM1602	33.81	STY1264	1219329	1220339	sifA	putative vir
STM1163	7.05	STY1201	1158791	1159837	pyrC	dihydroorot
STM3028	18.34	STY4326	4208646	4209248	fic	cell filamer
STM2013	13.65	STY3838	3696497	3697300	fdhD	FdhD prote
STM1910	60.19	STY0691	686772	688673	pbpA	penicillin-bi
STM2912	28.81	STY0277	293718	294632	yafC	hypothetica
STM2053	8.01					
STM0521	7.08	STY3007	2879857	2881086	sipC	pathogenic
STM0078	7.33	STY1210	1166894	1167316	flgN	flagella syn
STM0590	4.66	STY4450	4318337	4321162	uvrA	excision nu
STM3706	14.81	STY2874	2742393	2742875	smpB	SsrA (tmRI
		STY0042	40128	41621		putative se
		STY3740	3591565	3592515	coaA	pantothena
		STY4108	3968743	3968949		hypothetica
		STY3913	3773728	3775110	atpD	ATP synthe

PSLT104	4.61	STY0429		437771	440873	sbcC	exonucleas
STM1980	43.33	STY3012		2885385	2885645	spaQ	secretory p
STM4279	49.79	STY2270		2094854	2095432	phsB	thiosulfate
STM4066	19.02	STY2126		1977650	1978699	cheB	protein-glut
STM3589	26.59	STY1342		1302709	1303017		conserved
STM1767	28.16	STY1729		1649864	1650502	ssrB	putative tw
		STY4072		3930435	3931559	waaG	lipopolysac
STM4522	34.49	STY0382		391586	391810		probable se
STM0845	55.52		STY3723	3572671	3573429	thiF	thiamine bi
STM0851	7.17	STY3574		3424379	3425830	trkH	trk system
		STY2767		2619121	2620395	hisS	histidyl-tRN
STM0338	20.27	STY3631		3487314	3487862	rffC	lipopolysac
STM3244	19.12	STY3652		3508199	3509743	ilvA	threonine c
STM1579	54.96	STY1290		1249356	1250066	narJ	respiratory
STM1533	35.38	STY1918		1811072	1811920	hyaF	hydrogenas
STM4517	14.08	STY1316		1275070	1275690	ispZ	putative int
STM0789	16.84	STY0167		171520	172413	nadC	nicotinate-r
STM1166	14.18	STY0465		471575	472366	phnV	probable m
STM1568	57.4	STY3842		3701490	3702125	fdol	formate de
STM1181	3.79	STY1725		1643582	1644793	ssaD	putative pa
STM0024	54.76	STY0594		600633	601640	fimH	FimH prote
STM3009	7.87	STY3611		3465703	3466410	yigA	conserved
STM2465	6.9	STY3648		3504733	3506280	ilvC	ketol-acid r
STM2641	2.8	STY0209		218282	219700	pcnB	poly(A) pol
STM0575	42.05	STY1960		1851158	1851958	manY	phosphotra
STM0772	9.55	STY1910		1803420	1804511		putative AT
STM1414	22.45	STY3019		2890400	2892457	invA	possible se
STM3113	24.66	STY0517		521239	521613	ybaJ	conserved
STM1786	67.49	STY1523		1480110	1481213	hyaA2	uptake hyd
STM0086	7.11	STY1544		1496807	1497994		putative me
STM1496	69.6	STY0964		958911	959774	dmsC	anaerobic c
STM0964	6.8	STY0659		658533	660812		molybdopte
STM0366	7.96		STY1515	1471213	1472375		
STM4036	72.17						
STM1224	35.22	STY1462		1412563	1413513	sifB	putative vir
STM1919	39.27						
STM3861	11.68	STY1421		1372127	1372537	hslJ	heat shock
STM3459	9.21	STY1354		1316029	1316736		conserved
		STY0554		560346	562760		putative me
STM0247	41.59	STY0559		565203	566219	sfbB	ABC transp
STM3472	38.53	STY0584		591675	592169	ppiB	peptidyl-pr
STM2310	32.95	STY0639		640379	641548	entC	isochorism
STM4040	9.61	STY4615		4486600	4487178		putative ph
STM2517	29.28	STY1284		1237990	1239519		putative inv
STM1294	6.97	STY1935		1828430	1829974	nhaB	regulator o
STM0580	5.51		aSTY3668; aSTY4635				
STM1555	48.46	STY3156		3028619	3029641		possible re
STM0285	8.65	STY4113		3974013	3975404	selA	L-seryl-tRN
STM3752	14.49	STY4041		3899797	3900141		hypothetic
STM2194	5.82	STY3342		3184202	3186373		conserved
STM1185	17.29	STY3148		3019626	3020321	mutH	DNA mism

STM0666	12.52	STY3308	3154801	3156213	uxaC	uronate iso
STM1492	21.58	STY2936	2810041	2811105	proW	glycine bet;
STM3513	24.17	STY2923	2801221	2801670		putative me
PSLT034	4.73	STY3562	3405869	3407320	panF	sodium/par
STM2595	66.27					
STM2551	6.11	STY3211	3078110	3079240	gcvT	aminometh
STM4064	24.35		aSTY3242			
STM2246	12.8	STY3293	3139940	3140623		LysR-famil
STM4264	21.52	STY0511	517438	518988	ylaB	hypothetica
STM4290	28.45	STY4194	4059043	4060365	yhjE	hypothetica
STM0796	24.49					
STM3676	47.59	STY4743	4603641	4604495	sgaU	conserved
STM4118	2.61	STY4813	4671772	4672959		putative inr
		STY4937	4798017	4799366	creD	inner meml
STM3474	8.06	STY2963	2839397	2840530		putative rut
STM1713	10.39	STY2410	2242465	2243373		putative tra
STM2088	4.4	STY2292	2119214	2120647	rfbK	phosphoma
STM2162	20.86	STY2924	2801705	2802055	ygaC	conserved
STM3773	7.32	STY2427	2256801	2257469	folE	GTP cyclot
PSLT016	7.65	STY2315	2143528	2144922	wcaJ	putative ex
STM0862	12.96	STY2406	2238562	2239260		glutathione
STM3112	39.8	STY1927	1819619	1820230	mltE	membrane
STM0266	12.36	STY4122	3985635	3987131	lyxK	putative L->
STM4154	9.49					
STM2292	35.4	STY1972	1859271	1860062	kdgR	transcriptio
STM4571	7.41	STY4106	3966919	3967620		putative lipi
STM1991	25.08	STY4357	4232972	4233283	rpsJ	30S ribosom
STM2841	17.28	STY4717	4579891	4580841	miaA	tRNA delta
STM1826	71.2	STY3422	3262502	3263866	tdcG	L-serine de
STM3655	9.84	STY3480	3324741	3325913		probable G
STM1919	27.29	STY3395	3240258	3241778	air	aerotaxis re
STM3188	8.44	STY3310	3158238	3160094	gsp	glutathiony/
STM4047	20.74	STY3222	3090113	3090748		possible m
STM1179	15.98	STY1217	1171315	1172070	flgF	putative fla
STM2981	19.18	STY3386	3229453	3230064		putative me
STM2397	8.64	STY1735	1653541	1655314	ttrS	
STM3754	22.82					
STM4297	14.32	STY3372	3214506	3215183	dsbB	disulfide isc
STM4305	15.37	STY3256	3118212	3118805		conserved
PSLT095	5.42	STY3207	3071829	3073262	bgIA	6-phospho-
STM3640	22.34	STY0800	797102	797488		probable se
STM1508	58.76	STY3307	3153317	3154789	uxuB	D-mannoni
STM2164	14.57	STY3230	3096984	3097562		putative me
STM3250	20.25	STY1139	1102448	1103251	hpcG	2-oxo-hept
STM1785	11.36	STY0810	806416	807324		putative me
STM4024	9.2	STY0853	847486	848481		HlyD-family
STM0637	59.43	STY0896	889909	891111	dacC	D-alanyl-D-
STM2560	26.52	STY0510	516818	517207	ybaZ	putative me
STM0006	34.58	STY0424	434108	434392	yaiE	conserved
STM1057	15.15		STY3296	3142971	3143237	hypothetica
STM0398	40.62					
STM3173	44.7					

STM0204	49.44	STY2787		2644800	2645123	yfhF	conserved
STM4275	22.85	STY2191		2031707	2031940	dsrB	DsrB prote
STM1241	46.04						
STM2564	17.9	STY2415		2246526	2246771		putative me
STM3274	48.9	STY0862		854809	855075	ybil	hypothetica
STM1550	57.86	STY4789		4647757	4648041	relE	conserved
STM0615	37.51	STY4880		4741439	4741834	yjiW	conserved
		STY3048		2914796	2915032		conserved
STM2541	41.24	STY1754		1673765	1674133		conserved
STM0353	16.15	STY1158		1117233	1117628		putative se
STM1376	75.81	STY1745		1666834	1667070	lppA	major oute
STM2525	16.2	STY4150		4010780	4011067		conserved
STM0351	9.03	STY4092		3951821	3952252		putative se
STM1828	7		STY0045	43198	44181		hypothetica
STM1350	13.78	STY0081		82381	83934	caiC	probable cr
STM0032	62.56	STY0046		44308	46023		possible su
STM1117	18.77	STY0102		100653	101132	folA	dihydrofola
STM0163	29.9	STY0106		103285	104274	pdxA	pyridoxal p
STM2983	49.78	STY0091		93425	93655		putative lipi
STM4410	31.45						
STM1993	23.9	STY1439		1390720	1391064		putative me
		STY1372		1328102	1328326	pspB	phage shor
STM1585	43.9	STY1391		1343304	1343540		putative lipi
STM3023	45.16						
STM2851	23.4	STY3375		3216384	3216740		conserved
PSLT043	4.08						
PSLT028	32.71						
STM2104	15.3						
STM0557	16.31						
STM2458	9.89						
STM0769	5.49						
STM3848	11.39						
PSLT055	40.38						
STM0408	6.34						
STM3251	7.65						
STM0252	13.12						
STM1154	11.97	aSTY4846					
STM1005	59.28						
STM1959	51.03						
STM2600	65.98						
STM1038	70.75						
STM1046	69.34						
STM2421	62.18	STY3268		3127850	3129106	nupG	nucleoside
		STY0311		325202	325672		hypothetica
		STY0350		357726	358343		hypothetica
STM0220	17.48	STY1018		1014106	1014420	gam	host-nuclea
		STY1045		1028101	1028361		putative ba
		STY1061		1039842	1041830		putative ba
STM1338	9.19	STY2036		1905864	1906361		putative ba
STM4010	21.32	STY0476		482464	483135		probable se
STM2628	31.17	STY1020		1014982	1015386		putative DN
		STY1047	aSTY2040	1029169	1030572		putative prc

STM0994	17.5	STY1063		1042417	1042719		putative ba
		STY2039	aSTY1048	1908238	1909740		conserved
STM2558	24.32	STY2055		1917646	1917789		hypothetica
STM2701	10.59	STY1625		1558540	1559967		bacterioph
STM2435	48.24	STY1672		1601223	1601990	pdxY	pyridoxami
		STY2016	aSTY1070	1892192	1893391		putative ba
STM0928	9.26	STY2032		1903577	1904131		putative ba
STM2754	7.87	STY2057		1919308	1920240		hypothetica
STM2632	24.88	STY2073		1927497	1930625	recE	exodeoxyri
STM3415	13.43	STY1760		1681680	1682438	aroD	3-dehydroc
		STY1067		1045023	1045451		putative ba
		STY2043		1912209	1912610		putative ba
		STY2059		1920890	1921297		putative ba
STM2175	6.65	STY3660		3516918	3517487	cl	repressor p
		STY3676		3529872	3530705		putative ca
STM2584	7.28	STY4654		4514621	4515415	vexB	Vi polysacc
		STY4671		4534634	4536370		putative me
STM4315	5.15	STY4824		4687302	4688465		hypothetica
STM1790	2.61	STY4849		4706399	4710148		helicase re
STM2528	8.6	aSTY4144					
STM1057	12.16	STY4525		4414441	4415022		hypothetica

STM0233	4.3	STY1267		1222902	1224131	pepT	aminotripe
STM4456	10.87	STY0146		148814	150130	murD	UDP-N-acc
STM2274	12.68						
STM0067	11.47	STY0200		209360	210154	panB	3-methyl-2-
STM2502	3.12	STY0257		271774	273537		putative se
STM1728	78.73	STY1548		1500132	1500314		conserved
STM0591	17.82	STY0221		232071	234128	fhuB	ferrichrome
			STY0705	701827	702207		
STM2424	17.53	STY0734		734222	734992	ybfF	putative es
STM3698	46.22						
STM2066	9.74						
STM0501	5.71	STY3899		3759977	3761473	yeN	conserved
STM2309	38.19						
STM0109	30.64	STY3923		3785633	3787390		conserved
STM0030	48.86	STY0014		15020	15967		putative re
STM3788	14.47	STY2637		2472067	2473458	pgtP	phosphogly
STM2589	10.34	STY0808		804120	805166	galT	galactose-
STM1301	33.24	STY0157		162968	163363	mutT	7,8-dihydro
STM2778	34.23						
STM0125	9.13	STY1112		1084014	1084673		putative me
STM1792	13.54	STY4395		4254841	4255413	yardC	conserved
STM0085	43.09	STY4340		4219938	4220489	yheR	putative ox
		STY4300		4177543	4178253	yrfG	putative hy
		STY1869		1776622	1777665		hypothetica
STM1457	15.13	STY4348		4226017	4226373	yheM	conserved

STM2404	14.45	STY4309	4187847	4188368	aroK	shikimate k
STM0643	22.96	STY1273	1230346	1230993		conserved
STM1212	31.52	STY1843	1759179	1759430		conserved
STM2253	6.64	STY2316	2144976	2146346	manB	phosphom
STM2984	11.12	STY2346	2183793	2184677		hypothetica
STM1558	39.81	STY4273	4139841	4141805	glgX	glycogen o
STM1646	42.93	STY4237	4104402	4104773		putative me
		STY2348	2185405	2187516		hypothetica
STM0293	5.47					
STM0685	22.9	STY0328	339851	340156		hypothetica
STM1486	45.16					
STM2154	13.39	STY2337	2169451	2170320	alkA	DNA-3-me
STM2713	35.43	aSTY4618				
STM1981	5.58					
STM4062	8.48	STY1085	1064225	1065865	pqiB	putative se
STM4292	29.52	STY1647	1575105	1575836	rstA	putative tw
STM4383	49.07	STY0917	908948	910291		possible tra
STM1046	76.33					
STM4307	27.96	STY2773	2625707	2626516		putative an
STM2859	41.34	STY2809	2668161	2669498	yfhA	putative tra
STM0910	67.52					
STM0844	32.61	STY0968	963203	964000	pflA	pyruvate fo
STM4357	4.55	STY0997	995531	997378	ycbB	putative ex
STM1499	16.42	STY3810	3673291	3674187	yiiP	putative tra
STM2842	8.5	STY4420	4288320	4289054		putative ex
STM1753	16.98		2903367	2903663		hypothetica
STM0735	20.41	STY4702	4559748	4560482	frdB	fumarate re
STM1050	85.25					
STM3476	18.44	STY0974	967949	968806	focA	probable fc
STM0893	63.21	STY1011	1008747	1010087	int	integrase
STM0798	3.09	STY4405	4270729	4274412	metH	B12-depen
STM3067	61.41					
STM1928	22.84	STY4449	4317750	4318250		putative lipi
STM0143	10.05	STY4805	4665404	4666624		arginine de
STM2820	13.27	STY2564	2400919	2401596		putative ph
STM4174	28.06	STY2591	2427893	2429320		putative tra
		STY1248	1201437	1202261		conserved
STM1487	28.87					
STM2341	13.01	STY1203	1160625	1161272	grxB	glutaredoxi
STM1692	5.1	STY3726	3574379	3575512	thiH	thiamine bi
STM1368	40.09	STY1791	1711222	1712613		putative so
STM2252	11.48	STY4713	4574716	4576263	yjeF	conserved
STM3655	40.27					
STM3014	20.9	STY2487	2316105	2316596	napF	ferredoxin-
STM3828	6.55	STY2521	2355811	2357028		putative MF
STM0654	10.21					
STM1951	9.93	STY2489	2317713	2319356	yojI	putative AE
STM3158	14.39	STY2524	2359373	2360020		conserved
STM0370	8.93	STY2561	2397018	2398232		putative an
		STY2600	2436294	2437370	usg	putative se

STM2528	10	STY1800	1719686	1721044	celB	PTS system
STM2896	22.65	STY1706	1631029	1633074	ssaV	putative tyrosine
		STY3902	3764066	3764524	asnC	regulatory protein
STM0046	15.94	STY0337	346165	346635	safD	putative ferritin
		STY0253	265810	266406	rnhB	ribonuclease
STM2253	12.06	STY4430	4300332	4301204	ubiA	4-hydroxybutyrate
STM3983	23.99	STY2620	2453074	2455221		putative fatty acid
STM1383	10.58	STY0151	154947	155777	ftsQ	cell division protein
STM1106	13.25	STY1810	1728808	1729842	astA	arginine N-acetyltransferase
STM0076	58.8					
STM2985	50.22	STY1749	1668614	1669030		conserved
STM2221	19.12	STY1491	1447243	1448730	smvA	methyl viologen reductase
STM2160	16.67	STY1703	1629003	1629377	ssaP	putative tyrosine
STM3930	55.73	STY0438	446857	448227	proY	proline-specific
STM3823	54.96	STY2481	2310634	2311236	napC	cytochrome c
STM3248	8.94	STY2818	2681675	2682523	yfhH	putative transcription factor
STM3827	6.78	STY2279	2105221	2106045		conserved
STM2851	15.77	STY0122	124019	124786	yabl	DedA family
STM3000	13.43	STY0166	170861	171298	ppdD	prepilin peptidase
STM3174	25.95	STY2499	2331373	2334090	gyrA	DNA gyrase
STM4063	54.98	STY2681	2515641	2516657	cysP	thiosulphate reductase
STM1952	41.13	STY0867	859258	859917	glnP	glutamine tRNA synthetase
STM0837	57.48	STY2218	2053027	2053956	erfK	putative export protein
STM0591	34.43	STY0636	636684	637691	fepD	ferric enterobactin receptor
STM0914	72.18					
STM1734	12.62					
STM3059	8.75	STY4044	3902226	3904544		putative glycosyltransferase
STM1692	50.2	STY4168	4027178	4028785	dppA	periplasmic protease
STM4466	5.46	STY4254	4118018	4119334	ugpB	glycerol-3-phosphate
STM3607	31.06	STY0950	939882	940793	acT	hypothetical protein
STM4100	11.85	STY2764	2615707	2617179		putative GTPase
STM3389	48.7	STY0521	526616	527269	acrR	potential acetyltransferase
STM1429	39.59	STY0562	568074	569000		hypothetical protein
STM2160	10.46	STY4757	4614741	4615430	ytfE	conserved
STM1566	9.15	STY4863	4725840	4726853	trpS2	probable tryptophan
STM1062	37.56	STY4928	4788953	4790620		conserved
STM3928	20.07	STY4139	4004132	4004485	yiaB	putative membrane protein
STM2069	32.69	STY3415	3257518	3258414		possible LytR
STM1617	23.66	STY4313	4191923	4192600	rpe	ribulose-phosphate
STM3181	35.58	STY3943	3808932	3811346	gyrB	DNA gyrase
STM0045	9.33	STY2286	2112151	2112927	hisF	cyclase HisG
STM4261	6.93	STY0451	459745	460608	tsx	nucleoside diphosphate
		STY1344	1304384	1305121	pyrF	orotidine-5'-phosphate
STM1850	17.38	STY4389	4249753	4251042	sun	sun protein
STM1075	7.8	STY4310	4188425	4189513	aroB	3-dehydroquinate
STM0483	6.59	STY2168	2012950	2014353	fliD	flagellar hook
STM3302	10.67	STY2827	2688914	2689594	rnc	ribonuclease
STM2051	31.02	STY2700	2533611	2535014	eutE	putative alcohol
STM3528	31.18	STY3887	3743139	3743654	mobB	molybdopterin
STM4065	11.21	STY3016	2888256	2888699	spaM	secretory protein
STM2231	55.13	STY1883	1784276	1784515	msgA	putative virulence
STM0791	4.49	STY3008	2881114	2882895	sipB	pathogenicity

STM3186	5.13	STY0903	897122	898807	putative me	
STM0371	10.13	STY0886	879483	880424 ybiK	putative L-α	
STM0125	8.07	STY4323	4206350	4207531 yhfC	putative me	
STM1606	11.66	STY2252	2080580	2081212 pduL	conserved	
STM0182	19	STY4487	4374722	4375165 phnB	conserved	
STM4499	48.63	STY2107	1958745	1959485 yebC	conserved	
STM1442	46.08	STY3546	3385571	3386530 yhcQ	possible ex	
STM2509	28.47	STY0052	52277	52540 rpsT	30S riboso	
STM2249	12.07	STY0290	306444	306938	conserved	
		STY1426	1377205	1377654	hypothetica	
STM0492	7.55		STY3858	3713726	3714478 yihR	conserved
STM2241	28.82	STY0833	831540	833804 slrP		
STM0493	10.43	STY2255	2081988	2082998 pduO	conserved	
STM1255	5.54	STY4497	4387518	4388870 melA	alpha-galar	
STM3042	9.43	STY2114	1964777	1965748	conserved	
STM0863	44.25	STY2268	2092797	2093969 yeeC		
STM3128	3.26	STY4456	4325000	4326307	putative typ	
STM2915	38.26	STY2872	2741487	2741762	conserved	
STM3506	19.48	STY0054	52869	53807 ribF	riboflavin b	
STM4465	26.85	STY4790	4648045	4648590 nrdG	anaerobic r	
STM1529	27.99	STY1533	1487971	1488513	putative ex	
STM4556	9.05	STY3637	3493453	3494556 rfe	putative un	
STM0771	13.49	STY3598	3452617	3453633 pldB	lysophosph	
STM0838	6.6	STY3120	2988303	2989430 ygdE	conserved	
		STY3736	3587676	3588140 rplK	50S riboso	
STM3485	11.35	STY1219	1172921	1173619 flgH	flagellar L-α	
STM0575	19.4	STY4320	4202176	4202985 nirC	putative nit	
STM4463	43.8	STY3540	3381626	3382096 argR	arginine rej	
STM2441	13.14	STY3083	2947562	2948362	conserved	
STM1509	20.94	STY3778	3644410	3644940 hslV	heat shock	
STM2388	23.6	STY3577	3428004	3430193 fadB	large (alph	
STM1287	40.4	STY3593	3445786	3447132	putative req	
STM0790	12.96	STY3609	3464088	3464840 yigB	conserved	
STM2834	3.92	STY3620	3472059	3474650 cyaA	adenylate c	
STM1390	42.2	STY1855	1764926	1765774	putative tra	
STM1214	1.42	STY3731	3576977	3581200 rpoC	DNA-direct	
STM0937	7.44	STY1352	1312786	1313574 fabI	enoyl-[acyl-	
STM2479	10.11	STY2127	1978696	1979562 cheR	chemotaxis	
STM0703	10.22	STY3103	2971083	2971865 yqcB	putative RM	
		STY0919	910653	912140	probable su	
STM3901	21.94	STY0565	570690	572471 gcl	glyoxylate c	
		STY0999	998214	998861 ycbL	conserved	
STM1762	56.6	STY1486	1438888	1439583 narW	respiratory	
STM0339	26.17	STY0369	378844	379602 stbE	fimbrial cha	
		STY1317	1275666	1276490 yciC	putative me	
STM1172	11.39	STY1909	1802695	1803303 pth	peptidyl-tRi	
STM3983	5.8	STY1948	1836823	1838580 fadD	long-chain-	
STM1063	24.73	STY1979	1866210	1867493	putative me	
		STY2083	1936029	1936685	conserved	
STM4347	18.17	STY0522	527388	530750	integral me	
STM2529	31.12	STY0660	660809	661366	molybdopte	
STM0053	52.79	STY0674	672791	674452 dpiB	sensor kin	

STM0461	22	STY0985	980946	982694	msbA	probable tr
STM3474	13.4	STY0648	650170	650787		conserved
STM0006	27.06	STY1456	1406735	1407331	tehB	tellurite res
STM0999	62.2					
STM1664	16.14	STY1459	1409479	1410015		putative DN
STM1703	24.88	STY4188	4049730	4051703	yhjK	conserved
STM3017	28.34					
STM3827	47.26	STY4097	3955101	3956411		
		STY2971	2846784	2848493	hycE	formate hy
STM3792	44.56	STY3115	2982410	2983726	fucP	L-fucose pr
STM0984	15.83	STY2877	2755839	2757995		putative typ
		STY0452	460908	461447	yajI	putative lip
STM0747	4.07	STY0492	497690	500044	lon	Lon protea
		STY4227	4094257	4094658	nikR	nickel resp
STM4447	5.42					
		aSTY4162				
STM4117	10.66	STY4118	3982461	3983273		putative tra
STM3936	5.51	STY4090	3948736	3950019		conserved
STM1102	10.87	STY0279	296065	296844	yafD	conserved
STM3686	4.87	STY0443	453026	454153	tgt	queuine tR
STM2854	57.4	STY3315	3163369	3163710	hybF	hydrogena
STM2129	20.36	STY2941	2815862	2817400	emrB	multidrug r
STM3239	37.32	STY4173	4033187	4034485	yhjV	putative an
PSLT059	10.3	STY4115	3977536	3978417		putative su
STM3503	52.8	STY3477	3322453	3322929	greA	transcriptio
STM0141	19.77	STY3392	3236659	3237426		conserved
STM2318	9.42	STY3305	3150313	3151617	exuT	hexuronate
STM0209	2.95	STY2948	2824270	2826900	alaS	alanyl-tRN
STM2191	14.26	STY2424	2252975	2253973	mglB	D-galactos
		STY2462	2293213	2293833		putative me
STM4005	31.83	STY2961	2836255	2837775	ygaA	putative sig
STM1745	20.48	STY2453	2284421	2285515	yejB	putative bir
STM2746	12.31					
STM2164	31.21	STY2392	2222829	2223560	yehW	putative pe
STM4042	5.49	STY0930	920767	921768	ybjU	L-allo-threc
STM2970	9.95	STY4368	4238092	4238463	rplN	50S riboso
		STY2378	2208414	2209421	stcD	putative ex
		STY2408	2239932	2240969		putative ge
STM1960	4.88	STY4378	4242144	4243475	prlA	preprotein
STM2333	4.4	STY4214	4080174	4081670	pitA	putative lov
STM0589	12.7	STY3521	3363658	3364449		putative Gr
STM3391	5.68	STY4885	4748835	4749749	mrr	mrr restrict
STM1357	2.56	STY4769	4626889	4630668	ytfN	putative ex
STM0192	22.97	STY4907	4768834	4769271	holD	DNA polym
STM1478	8.62	STY4699	4558327	4558860	blc	putative lip
STM3069	14.74	STY4798	4659111	4659497	yjgF	conserved
STM3780	20.61	STY3435	3279763	3280617	gatY	tagatose-bi
STM2119	40.91	STY0712	708474	709352		haemolysir
STM3685	33.57	STY3501	3340797	3341288	ptsN	nitrogen re
STM0768	16.04	STY3414	3257114	3257479		putative me
STM3369	16.23	STY0211	220806	221261	dksA	dosage-dej
STM1170	9.19	STY1717	1638771	1639250	sscB	putative pa
STM3949	18.62	STY3200	3066947	3067843	xerD	site-specifi

STM3350	56.14					
STM1637	10.56	STY1722		1642206	1642796	sseB putative pa
STM1879	14.92	STY1120		1088329	1088670	sigE cell invasio
STM4262	5.57		STY0768	766975	768451	
STM1216	14.55	STY0821		817657	818598	hutG formiminog
STM3851	19.19	STY0871		862092	862979	ybiF putative me
STM1904	13.28	STY3205		3070536	3071195	putative me
STM0969	36.35	STY3093		2957978	2958334	hypothetica
STM3225	19.93	STY0444		454176	454508	yajC putative me
STM2281	31.86	STY0516		520993	521211	hha haemolysir
STM0745	18.03	STY3332		3175691	3176425	exbB biopolymer
STM3007	53.51	STY3123		2991074	2991310	possible lip
STM0629	63.89	STY2204		2042823	2043035	cspB cold shock
STM1577	10.24	STY4484		4370484	4372631	fdhF formate de
STM0579	23.67	STY4447		4317068	4317424	conserved
STM0995	30.76	STY4691		4553477	4553848	yjel putative me
STM1513	76.19	STY1156		1116294	1116461	conserved
STM2244	48.56					
STM1184	6.87	STY2529		2363684	2365666	putative lipi
STM3817	99.6	STY2478	STY3961	2308551	2309288	ccmC1 heme expo
STM3591	42.89	STY4639		4503894	4504127	hypothetica
STM2344	30.59	STY1448		1399786	1400223	putative ph
STM0380	19.95	STY1535		1489739	1490098	conserved
STM0614	21.07	STY1416		1366390	1366824	conserved
PSLT064	43.32	STY2082		1935691	1935921	holE DNA polym
STM4467	8.89	STY0165		169466	170851	hofB protein trar
STM2975	38.63	STY3990		3855157	3856473	probable pi
STM1651	5.34	STY3900		3761467	3762918	conserved
STM1207	28.19	STY0456		463245	463715	ribH 6,7-dimethy
		STY3241		3106596	3106727	conserved
STM3145	50.88					
STM1155	35.56	STY1424		1376540	1376731	putative lipi
		STY1374		1328708	1328926	pspD phage sho
STM1061	32.78					
STM3826	47.21	STY1970		1858524	1858667	putative me
STM1548	29.39					
STM1326	51.3	STY0788		787054	787167	putative me
STM2249	17.44					
PSLT049	93.88					
STM3632	9.09					
STM2427	24.91					
PSLT109	100					
STM2513	18.81					
STM4029	10.12					
STM2958	36.21					
STM4399	5.56					
STM2971	67.59	aSTY1956				
STM0750	34.1	STY1042		1026467	1027081	putative ba
STM1032	48.31					
STM1270	17.96					

STM2960	63.5	aSTY3099				
STM2474	70.82	aSTY3236				
STM1499	66.69	aSTY0962				
STM2338	17.05	STY1596		1540814	1541029	hypothetica
		STY1613		1549534	1549845	hypothetica
STM4532	3.45	STY1629		1561381	1563846	putative ba
STM3159	39.39	STY1879		1782112	1782240	hypothetica
		STY2020		1894800	1895228	putative ba
STM3028	17.54	STY3086		2949638	2952337	steB outer mem
		STY1615		1550387	1551982	conserved
		STY1631		1564727	1564942	putative ba
STM0141	25.05	STY1887		1786270	1786647	hypothetica
STM0834	14.75	STY2022		1896154	1896489	putative ex
STM0199	11.64	STY3088		2953143	2953649	steD fimbrial sut
STM2257	21.51	STY3287		3136966	3137151	hypothetica
		STY1027		1019268	1019840	hypothetica
STM3478	7.85	STY1049	aSTY1048	1031929	1032663	putative ba
		STY1065		1043789	1044142	putative se
STM2775	7.82	STY2041		1911073	1911822	putative ba
PSLT075	12.02	STY3289		3137880	3138506	hypothetica
STM3287	7.76	STY3658		3515470	3516522	probable bi
		STY1051		1033902	1034408	putative ba
		STY2026		1898476	1900428	putative ba
		STY3092		2956439	2957269	hypothetica
STM0385	51.78	STY2067		1925628	1925783	conserved
STM4422	9.95	STY2297		2125658	2126956	rfbX putative O-
STM3356	11.21	STY2364		2195375	2195992	putative ex
PSLT066	46.94	STY4536		4422151	4422687	ssB single strar
		STY4559		4440435	4440986	hypothetica
		STY4576		4453846	4454814	hypothetica
STM2523	8.13	STY4593		4469696	4470604	hypothetica
STM1557	6.16	STY4221		4085976	4087142	putative an
		STY4539		4423868	4425112	pilL putative ex
		STY0082		83997	85214	caiB L-carnitine
STM2838	51.03	STY3494		3335488	3336474	conserved
STM0498	14.91	STY3534		3375845	3376462	ttdB tartrate def
STM1703	29.2		STY3568	3411528	3413138	putative ex
STM0656	39.94					
STM3028	14.08	STY0730		731339	732265	lysR-family
		STY0243		254731	255927	dxr 1-deoxy-D-
STM3828	14.71	STY1556		1508770	1509984	rspA starvation ε
STM1789	51.05	STY1527		1483718	1484326	hyaD2 hydrogenas
STM3886	10.74	STY4795		4654435	4655382	treR trehalose o
STM2463	10.93		STY2238	2067551	2068030	cbiC
STM2473	64.72	STY0007		7665	8618	talB transaldola
STM0848	6.18	STY1327		1284001	1285596	trpD anthranilate

STM2851	17.69	STY2226	2059701	2060437	cbiM	
		STY1325	1281436	1282629	trpB	tryptophan
STM0142	15.42					
STM4532	3.98	STY0111	109800	112706	hepA	probable A
STM0286	9.44	STY3513	3356360	3357613	codB	cytosine pe
STM0927	84.37					
STM4292	43.02	STY1128	1094093	1094839	copR	response r
STM3337	66.41	STY1166	1128367	1129047		conserved
STM3944	15.93	STY1205	1162781	1163365	rimJ	ribosomal-p
STM0236	16.35	STY1250	1203322	1203864		conserved
STM0668	8.41	STY1848	1761136	1761783		putative me
STM2401	58.48	STY1192	1152892	1153812	htrB	lipid A bios
STM3976	39.55	STY1241	1194941	1195738		conserved
STM2284	6.96	STY4277	4147107	4148615	glpD	aerobic gly
STM2249	8	STY4260	4123472	4125214	ggt	gamma-glu
STM0546	14.59	STY4895	4758838	4759299	yjJA	putative se
PSLT108	37.96					
		STY4931	4793252	4793587	yjJX	
STM1226	18.8	STY1841	1758466	1758813		putative ba
STM4011	6.12	STY4899	4761193	4762140		putative me
STM1519	19.87	STY4933	4794279	4795148	rob	right origin-
STM4301	2.59	STY0298	312685	314193		
STM1855	4.65					
STM3693	8.53	STY2892	2774411	2775655	iroD	putative fer
STM2112	8.33					
STM0373	8.59					
STM0972	11.79					
STM0585	18.63	STY2894	2776664	2778844	iroN	TonB-depe
STM2272	21.68					
STM2289	59.46	STY1140	1103262	1104053	hpCH	2,4-dihydro
STM0994	7.66	STY2646	2480998	2482650		putative de
STM0951	22.32					
		STY2686	2519910	2520335		putative ac
STM3971	13.54	STY2728	2565312	2565950	gcvR	glycine clea
STM1901	7.03	STY0966	960124	961272	ycaD	probable tr
STM1378	8.64	STY0995	990043	990720	mukE	KicA protei
STM0429	8.38					
		STY3863	3720474	3721322		hypothetica
STM4600	34.82	STY2791	2647697	2648428		putative RN
STM1868	40.43					
STM4571	15.14	STY3791	3656029	3656358		conserved
STM1909	3.52	STY3755	3616149	3617882	yjJP	putative me
STM1495	42.22	STY4509	4400812	4401498		conserved
STM2459	7.8					
STM2410	30.8	STY2744	2582300	2584513		putative me
STM4294	42.99	STY2805	2662623	2663954	cadB	probable c
STM0923	42.62					
STM1106	17.07	STY3802	3665690	3666412		putative Gr
STM3858	53.4					
STM0956	9.89	STY2979	2854249	2855370	hypD	hydrogenas
STM3952	7.26					
STM1041	19.9	STY4872	4733220	4734440		putative me
STM2470	56.14					
		STY2260	2087422	2087772		putative pr
STM1808	30.84	STY1850	1762192	1762554		conserved
STM1482	30.13	STY1584	1532014	1532343		putative me

		STY1274	1231074	1232180	trmU	tRNA (5-mi
STM2451	9.55	STY1253	1206213	1206848		putative Te
STM2513	1.75		4194856	4200464	bigA	
STM1197	5.89	STY2149	1997355	1998788		putative ex
PSLT081	11.79					
STM2333	8.27					
STM3708	10.42					
STM4418	25.91					
STM1567	20.89		4681892	4683382		
STM2154	11.24	STY2571	2409117	2409947		putative tra
STM3618	29.28	STY2134	1986687	1987037	flhD	flagellar tra
STM4232	5.8	STY1769	1691493	1692044	btuE	putative glu
STM4057	4.03	STY2289	2114739	2115950	ugd	UDP-gluco
STM2334	6.59	STY3942	3807830	3808903	recF	recF protei
STM0530	27.82	STY2814	2678079	2678630	yfhC	conserved
STM0322	10.59	STY0229	239070	239768	mtn	MTA/SAH i
STM0639	24.58	STY0147	150130	151374	ftsW	cell divisio
STM2641	6.59	STY0125	127102	128085	tbpA	thiamine-bi
STM1775	26.24	STY2617	2450682	2451614		conserved
STM0545	10.76	STY1790	1710486	1711085		conserved
STM3314	31.77	STY2186	2028567	2028944	fliO	flagellar pr
		STY2376	2206631	2207428		hydroxyeth
STM4326	42.46	STY1653	1581741	1583144	fumC	fumarate h
STM2584	8.71					
STM1236	10.13	STY2304	2133107	2133658	rfbC	dTDP-4-de
STM3242	8.21	STY3931	3794563	3795228		putative hy
STM2829	8.91	STY0241	253160	253885	pyrH	uridine 5'-n
		STY0461	466839	468701	dxs	1-deoxyxyl
STM1938	3.96	STY0156	160107	162812	secA	preprotein
STM3883	20.93	STY2550	2384823	2385377	nuoJ	NADH deh
STM0554	21.51					
STM2624	100	STY1024	1017923	1018270		putative DN
STM0878	42.36	STY0548	555710	556387		putative AE
STM2253	10.88	STY0538	545267	546487	fsr	fosmidomy
STM2515	15.16	STY4701	4559342	4559737	frdC	fumarate re
STM2619	98.4	STY1035	1022943	1023554		hypothetica
STM4200	7.14	STY3364	3206069	3207544	tolC	outer mem
STM3468	13.68	STY3396	3242298	3243587		probable ai
STM3082	26.37	STY3444	3287473	3288516	gatD	galactitol-1
STM3789	14.85	STY2526	2360664	2361269	ais	Ais protein
STM3406	3.62	STY2663	2499609	2501624	ligA	DNA ligase
STM3248	49.03	STY0567	573361	574239	garR	2-hydroxy-
STM0597	11.21		31278	32123		putative ex
STM0916	79.38					
STM1027	75.45					
STM4410	5.14	STY2845	2708255	2709610	pssA	CDP-diacyl
STM3618	12.7	STY3384	3228068	3228889	bacA	bacitracin r
STM0817	16.48	STY4224	4090292	4093033		hypothetica
STM1655	31.74	STY3461	3301996	3303936		ATP-deper
STM1694	14.5	STY0458	464234	465211		thiamine-m

STM2430	28.77	STY2677	2511817	2512728	cysM	cysteine sy
STM4162	56.4	STY0884	877295	878044	moeB	molybdopte
STM2207	15.5	STY0285	301227	301958	dnaQ	DNA polym
STM2887	12.05	STY1698	1625241	1626299	ssaU	putative typ
STM0888	27.41	STY2582	2417938	2418645	hisM	histidine tra
STM1112	19.76	STY0013	13596	14735	dnaJ	DnaJ prote
STM2364	17.22	STY1314	1273721	1274449	tonB	TonB prote
STM2465	24.19	STY2692	2525375	2525869	eutK	ethanolami
STM0618	8.34	STY3792	3656402	3657277	yneB	putative alc
STM2324	19.62	STY0076	75696	76844	carA	carbamoyl-
STM4294	6.08	STY2697	2530239	2531465	eutH	putative me
STM4203	10.49	STY3750	3608405	3609781	argH	argininosuc
STM3137	7.2	STY0799	796053	796991	ybgR	probable ca
STM3158	20.51	STY0792	788911	789339	tolR	tolR proteir
STM2806	1.31	STY2932	2805378	2807522	nrdE	ribonucleos
STM0581	47.37	STY1541	1494880	1495314	marA	multiple an
STM1344	11.08	STY3002	2875699	2876049	sicP	chaperone
STM1760	15.31	STY1383	1335976	1336740		conserved
STM1560	13.27	STY3558	3402705	3403304		putative me
STM0381	14.02	STY0264	278283	278828	yaeQ	conserved
STM2785	37.14	STY1271	1228174	1228848	phoP	transcriptio
STM3725	10.03	STY3717	3566644	3567315	nfi	putative en
STM3514	17.75	STY2606	2441934	2442302		hypothetica
STM4558	8.01	STY4733	4595156	4596778	aidB	probable ar
		STY1727	1646269	1646652	spiC	putative pa
STM3239	5.73	STY1232	1186982	1187935	fabH	3-oxoacyl-[
		STY1347	1306046	1306798		putative req
STM0782	32.19	STY2112	1963601	1963996		putative me
STM2689	31.57	aSTY4458				
STM2633	99.8					
STM3606	10.75	STY1179	1140027	1140653	csgD	putative req
PSLT041	22.29	STY0757	757913	758248		putative me
STM2251	14.13	STY3714	3564849	3565541	yjaH	conserved
STM2317	3.1	STY3581	3434427	3435950	yigC	conserved
STM0030	16.14	STY3606	3459939	3460319	yigF	putative me
STM2649	49.71	STY3639	3496464	3496793	trxA	thioredoxin
STM1577	75.44	STY1288	1244084	1247827	narG	respiratory
		STY1952	1842160	1842504		conserved
		STY1313	1273201	1273497		conserved
STM4038	4.57	STY3153	3024118	3026277	aas	2-acylglyce
		STY3020	2892482	2893600	invE	cell invasio
PSLT101	30.99	STY4605	4479212	4479514		putative ph
STM2045	22.96	STY2251	2080098	2080580	pduK	putative pro
STM1765	68.37	STY1489	1444944	1446332	narU	nitrite extru
STM2001	13.23	STY3618	3470870	3471412		putative me
STM1479	13.35	STY3628	3483851	3484930		conserved
STM3235	55.43	STY3656A	3514746	3514844	ilvL	ilvGMEDA
STM0925	69.69					
STM3537	11.83	STY1936	1830116	1830646	dsbB	disulfide bc
STM3264	28.93	STY1335	1292665	1292916		conserved
STM0659	8.98	STY3059	2922513	2923952	cysN	ATP sulfur
STM2314	12.57	STY2086	1939709	1940368	yebE	conserved

STM4103	7.55	STY0666	664818	665624	rna	ribonucleas
STM3917	7.47	STY1517	1472365	1473606		putative m
STM2171	23.3	STY0642	644039	644794	entA	2,3-dihydro
STM0460	12.39	STY1452	1402777	1403895		conserved
STM3011	55.19					
STM3504	5.93	STY1478	1429522	1431642		probable T
STM0725	7.74	STY1449	1400355	1401161		conserved
STM3658	9.54	STY1437	1388387	1389034		putative AE
STM3459	30.57	STY2100	1953078	1953833	znuC	high-affinity
		STY0925	916424	916939		probable lip
STM0521	7.15	STY0569	575648	577102	ybbW	
STM4445	5.73	STY0571	577181	578542	allB	putative all
STM3626	9.42	STY0959	952082	952696	lolA	outer mem
STM3544	14.84	STY1429	1382423	1383223		conserved
STM1586	29.08					
STM0740	63.55	STY1919	1811995	1813539	appC	cytochrome
STM2119	42.07	STY1958	1848105	1849664		putative m
STM3554	23.6	STY3232	3098252	3098935		possible AE
STM4052	45.93	STY4126	3988909	3990186	yiaN	putative m
STM2136	6.16					
STM3205	8.99	STY3980	3846843	3847928		hypothetica
STM3955	37.38	STY3126	2993415	2994329		putative m
STM0747	8.03	STY3221	3089273	3090019		conserved
STM3060	10.17					
STM0464	16.86					
STM0320	8.55	STY2962	2837961	2839400		putative fla
STM0499	5.88	STY3240	3104611	3106587	speA	biosynthetic
STM4185	9.07					
STM0555	23.95	STY4146	4009535	4009990		
STM4468	32.72					
STM0701	60.85					
		aSTY3270				
STM0209	13.4	STY0497	503820	504515	ybaX	conserved
STM4037	20.29	STY4213	4079699	4080034	uspB	universal s
STM2381	19.58	STY3263	3123880	3124260		conserved
STM2769	36.65					
		aSTY0602a				
STM3466	7.7	STY4777	4637904	4639256	pmbA	putative Pn
STM0767	16.69	STY4911	4772444	4773061	osmY	Putative pe
STM2690	9.78	STY2938	2812335	2813519		putative tra
STM2127	34.7	STY2341	2176611	2179691		putative RN
STM0343	24.02	STY2451	2280943	2282499	rtn	rtn protein
STM0640	8.5	STY2309	2138017	2139420		putative ex
STM0702	45.34	STY2344	2182500	2183222	baeR	putative tw
		STY2438	2269017	2269874	nfo	endonuclea
STM2933	7.61	STY2335	2165521	2166162	udk	uridine kin
STM3869	18.26	STY1977	1864800	1865486	proP	ProP effect
STM0985	29.4	STY4101	3959072	3959545	yibK	putative RN
STM1070	25.95	STY4157	4015808	4016470	yiaD	putative ou
STM2463	9.47	STY2426	2255644	2256786	yeiB	putative m
STM2385	29.25	STY1900	1794100	1794933	hemK	HemK prot
STM2690	13.93	STY4128	3990801	3991733		hypothetica
STM1869A	29.6	aSTY1042				
STM2228	21.62	STY4731	4593267	4593905	yjfM	conserved

STM3859	9.65	STY3361		3203965	3204792	icc	conserved
STM1958	13.59	STY3456		3296699	3297223		conserved
STM0746	20.32	STY3331		3175259	3175684	exbD	biopolymer
STM4102	61.06	STY3223		3090949	3091890		putative me
STM3569	12.41	STY3504		3342702	3343334		conserved
STM4414	8.45	STY4027		3889835	3890691	marT	
STM2461	3.09	STY3337		3179819	3180982		probable al
STM2958	11.54	STY1404		1355387	1356181	fnr	fumarate a
STM4456	29.4	STY4023		3884528	3887254	mgtB	Magnesium
		STY3329		3173764	3174138		hypothetica
STM0979	61.88	STY3237		3102604	3103362		conserved
STM0019	32.74	STY1110		1083320	1083601		putative ac
STM2180	5.3	STY0818		813777	814772	ybhE	conserved
STM3306	13.43	STY3250		3114351	3114767		conserved
STM1848	25.33	STY1084		1062967	1064220	pqiA	putative inr
		STY0794		790658	791950	tolB	tolB proteir
STM2461	11.94	STY0828		825803	826960	bioF	8-amino-7-
STM0840	67.27	STY0881		872793	873602		conserved
		STY1465		1414966	1415736	pcgL	D-alanyl-D-
		STY0482		486404	486733	cyoD	cytochrome
PSLT105	71.1	STY3183		3051786	3052013		hypothetica
STM3241	14.69	STY3255		3117914	3118204		conserved
STM2272	25.23	STY0529		535731	536060	ybaB	conserved
		STY0630		629366	629584	ybdZ	conserved
STM3003	16.03	STY2739		2575749	2576375	upp	uracil phos
STM0913	69.78						
STM2255	22.8	STY2377		2207838	2208152	yohN	conserved
STM0353	52.2	STY0385		392809	393276		hypothetica
		STY0449		458765	459112	yajD	conserved
STM0918	25.61	STY4093		3952338	3952589	grxC	glutaredoxi
STM1008	17.56	STY4735		4597229	4597558	yjFO	putative ex
STM3143	51.23	STY2978		2853977	2854249	hypC	hydrogenas
STM1712	38.76	STY1154		1115065	1115292		conserved
STM0762	30.71	STY1875		1779602	1779943		putative se
STM0475	25.64	STY1799		1719288	1719635	celC	phosphoen
STM2689	27.35	STY4013		3876469	3876894		putative PT
STM4534	19.37	STY4012		3873448	3876247		
STM0766	73.69	STY0065	aSTY3533	66650	66889	oadG	oxaloaceta
		STY0018		17873	19972		putative ch
STM3512	4.62	STY0066		67048	68388	citC	citrate-sodi
STM2143	3.76		STY0019; :	20004	21155		hypothetica
STM0031	40.69	STY0035		32549	32998		putative me
		STY0108		105614	107968	imp	organic sol
STM0231	34.36	STY1183		1142881	1143201		conserved
STM0612	21.68	STY1451		1402499	1402780		putative ph
STM3541	49.64	STY1402		1353980	1354234		putative me
STM3693	29.39	STY1461		1412059	1412289		conserved
STM2643	16.46						
STM3852	42.02	STY3417		3259244	3259408		conserved
STM2113	17.4						
STM4525	12.81						
PSLT109	10.84						

PSLT021	22.56					
STM2241	11.1					
STM0670	10.5					
STM3189	13.56					
STM1763	17.26					
PSLT054	54.2					
STM2199	12.11					
STM2031	17.84					
STM0267	19.55					
STM2252	19.03	STY4618		4488213	4488638	putative re
STM0585	50.98	aSTY2894				
STM2598	65.7					
STM1041	61.16					
STM2590	43.19					
STM0701	67.35	STY3270		3129168	3131292	speC
STM2238	15.17	STY0327		339338	339781	hypothetica
STM3576	13.77	STY0746		746167	747876	kdpB
		STY1031		1020876	1021373	putative ba
STM0007	19.62	STY1053	aSTY2034	1035345	1035770	putative ba
STM2384	17.81	STY1069		1046268	1046621	putative ba
STM0906	51.13	STY2045		1913065	1913460	putative ba
STM1671	28.23	STY0945		936885	937082	hypothetica
STM2632	23.81	STY1033		1021787	1022092	putative ba
STM0547	16.43	STY1055		1036140	1036694	putative ba
STM3174	13.59	STY1071	STY2015	1047817	1048497	putative ba
		STY2047		1913754	1914323	putative me
STM1709	8.61	STY2063		1923279	1924067	conserved
		STY1633		1566081	1566608	putative ba
STM0968	5.48	STY1890		1787529	1788257	putative pe
		STY2024		1897520	1897822	putative ba
STM0158	11.54	STY3090		2954131	2954667	steF
		STY2065		1924564	1924860	putative crc
STM1712	24.72	STY2209		2046987	2047163	hypothetica
		STY2003		1883033	1883224	hypothetica
STM1241	48.4	aSTY1077				
PSLT097	21.5	STY2051		1915938	1916228	putative ba
STM0766	80.3	STY3533	aSTY0065	3375447	3375689	oadG
		STY3668		3520518	3522932	possible er
STM2247	35.08	STY3684		3534285	3534713	putative re
		STY4663		4525220	4525408	hypothetica
		STY4680		4541654	4542913	int
PSLT104	3.37	STY4832		4692212	4694545	Bacterioph
STM3523	7.65	STY4881		4741999	4743387	hsdS
STM3336	21.83	STY4632		4498909	4499127	hypothetica
		STY4664		4525533	4527044	putative DN
STM3144	45.97					

STM2255	28.35	STY3955	3824187	3825372	torC	
STM3474	13.61	STY0473	478989	479900	apbA	ApbA
STM0162	7.57	STY2222	2056413	2057933	cbiP	putative co
		STY0047	46186	47352	nhaA	Na(+)/H(+)
STM1354	48.85	STY0085	88501	89271	fixA	FixA protei
STM0535	10.87	STY3823	3683494	3684528	rhaT	L rhamnos
STM1714	12.48	STY3350	3193456	3194193	plsC	1-acyl-glyc
		STY3506	3344134	3344787		conserved
STM0149	20.48	STY3546a	3386511	3386714		conserved
STM0475	72.99	STY3570	3413541	3416655	acrF	
STM0593	10.83	STY0704	701315	701788	ybeL	conserved
STM0564	14.44	STY0177	184153	185580	lpdA	dihydrolipo.
			206167	206607	yadI	putative PT
		STY0232	243080	244237	yaeG	conserved
		STY0266	279279	279980	cutF	copper hon
STM0832	11.02					
STM0543	14.02					
STM4481	54.97	STY4268	4132749	4133744	gntR	gluconate t
STM2101	7.33					
STM2388	13.72	STY4940	4800549	4801160	sthD	putative firr
STM2099	7.16					
STM2769	88.6					
STM2354	23.67					
STM4046	6.13	STY4613	4485349	4486257		probable pl
STM2735	11.55					
STM0004	10.65	STY0356	365369	366136	yafJ	conserved
STM1626	10.8	STY2901	2784279	2785289		
STM2177	18.65	STY1134	1098310	1099599	hpaG	4-hydroxyp
STM3646	9.98	STY1172	1135341	1136279		putative 2-l
STM0922	76.02					
		STY1124	1090704	1090874		conserved
STM0669	43.06	STY1162	1124406	1125260	phoH	PhoH prote
STM3980	11.96	STY1195	1155708	1156280	yceJ	
		STY1246	1200430	1200804		putative lipi
STM4108	48.11					
STM0528	8.44	STY4396	4255418	4256236	aroE	shikimate c
STM1449	9.06	STY1202	1159941	1160567	yceB	conserved
STM0045	7.95	STY4290	4164137	4166455	feoB	ferrous iron
STM1124	15.73					
		STY4232	4098411	4099076		putative me
STM3925	7.64	STY3797	3662183	3663142	ydeW	putative req
STM2596	63.4					
STM0557	22.2					
STM4235	8.71	STY4442	4311715	4313130	dnaB	replicative l
STM3614	36.31	STY4482	4368150	4369460	gltP	proton glut
STM3095	20.3	STY3054	2919837	2920316	ygbB	2C-methyl-
STM2382	15.25	STY0904	899078	899455		putative me
PSLT006	6.52	STY2610	2444955	2447015		conserved
STM1030	49.53					
STM2589	66.35					
STM3965	1.88	STY2778	2631984	2636918		putative lipi
STM0368	11.28	STY4402	4266370	4267674	aceA	isocitrate ly

STM4526	9.35					
STM1774	15.17	STY4476	4362770	4363336	nrfB cytochrome	
STM2867	25.35	STY4515	4405353	4406228	araC family	
STM0478	18.37	STY4707	4565815	4569141	yjeP putative me	
STM1155	58.29	STY2639	2474460	2475380	putative ac	
STM3141	13.02	STY2683	2517843	2518742	conserved	
STM3316	5.41	STY2726	2563303	2564337	nlpB putative lipi	
PSLT088	22.54	STY1819	1738487	1740343	sppA protease IV	
STM0547	54.54	STY0029	28429	29436	bcfD fimbrial sut	
STM3951	15.72	STY4730	4592859	4593257	yjfl putative me	
STM0658	19.1	STY4770	4630671	4631015	ytfP conserved	
STM3833	24.82	STY2500	2334419	2335621	putative MF	
STM3936	32.11	STY2549	2384524	2384826	nuoK NADH dehy	
STM3229	51.29	STY2542	2376369	2376680	conserved	
STM3300	5.63	STY2569	2406602	2408122	putative me	
STM2532	5.63	STY2263	2089486	2090388	pduX conserved	
STM2057	39.24	STY3424	3266264	3267472	tdcD propionate	
STM0176	36.5					
		STY1186	1145268	1146422	glucans bic	
STM3904	12.97					
STM2839	16.59	STY0399	407663	409288	prpR propionate	
STM0820	2.87	STY1832	1751541	1752827	conserved	
STM2221	21.25	STY1694	1619853	1621058	ydhC putative int	
STM0884	46.21	STY4739	4600742	4602172	sgaT putative tra	
STM2921	54.8	STY2586	2421602	2422171	ubiX putative de	
STM1358	8.48	STY1773	1696026	1697090	pheS phenylalan	
STM1472	10.68	STY1751	1670260	1671531	conserved	
STM0400	3.65	STY4910	4770453	4772042	prfC peptide cha	
STM1492	31.2	STY1570	1520264	1520974	putative AE	
STM1522	40.74	STY4008	3870217	3871410	putative inr	
STM3554	40.61	STY4426	4296002	4297111	malK maltose/m	
STM2189	22.7	STY3896	3755612	3757117	rbsA high affinity	
STM4454	15.24	STY0275	286542	287108	yaeD conserved	
STM4188	23.03	STY2199	2037487	2037957	vsr patch repai	
STM4241	15.84	STY4437	4306924	4307439	zur zinc uptake	
STM1524	30.08		STY1809	1727525	1728811	astD succinylglu
STM2689	12.04	STY1805	1724211	1724696	putative ex	
STM0073	56.92					
STM3365	48.27	STY1680	1607276	1608145	putative Hly	
STM1178	11.72	STY1215	1169358	1170056	flgD flagellar ho	
STM2098	11.79	STY2305	2133659	2134537	rfaA TDP-glucos	
STM1216	16.68	STY0364	373831	374232	crl curlin gene	
STM3028	40.01	STY4869	4731292	4731753	putative me	
STM0020	30.81	STY4945	4805344	4806015	putative tra	
STM2981	6.13	STY4183	4044889	4045998	yhjM probable ei	
STM1453	26.59	STY3453	3295417	3295860	conserved	
STM4600	8.47	STY2536	2370628	2371590	menC O-succinylt	
		STY2515	2350730	2351920	glpC anaerobic g	
STM1426	15.39	STY2729	2565950	2566420	bcp bacterioferi	
STM1675	16.25	STY0551	558153	558923	ybbO hypotherica	
STM0917	76.1					

STM1029	70.58				
STM2142	9.13	STY4047	3908095	3909300	gltS glutamate
STM1693	37.3	STY4169	4028942	4029961	dppB dipeptide tr
STM1742	53.07	STY4172	4031864	4032877	dppF dipeptide tr
STM1462	16.82	STY4266	4130526	4131563	putative ox
STM0919	60.95				
STM2626	100	STY1022	1016177	1017160	conserved
STM0963	28.12	STY4808	4668995	4669411	conserved
STM0972	51.79	STY3073	2935978	2936931	sopD possible se
STM1886	7.27	STY4800	4660048	4660983	pyrB aspartate c
STM4220	18.1	STY3768	3632107	3634539	metL bifunctiona
STM2253	9.27	STY0747	747897	749576	kdpA potassium-
STM2126	14.91	STY0753	754998	755930	conserved
STM0070	13.57	STY0590	596706	597239	fimI
STM3593	4.84	STY2812	2672341	2676228	purL phosphorib
STM3678	11.82	STY3824	3684525	3685373	rhaR L-rhamnos
STM0646	11.8		691595	692236	conserved
STM0796	3.72	STY0289	304545	306428	hypothetica
STM0234	69.21	STY2806	2664037	2666181	cadA lysine deca
STM4059	50.77	STY4294	4170266	4170985	ompR two-compo
STM3626	25.06	STY1356	1317560	1318552	sapD peptide tra
STM4569	15.17	STY0129	130471	131076	leuD 3-isopropyl
STM2463	12.95	STY1302	1259893	1262571	adh alcohol def
STM0468	10.37	STY3015	2887246	2888256	spaN surface pre
STM3789	8.26	STY2696	2528839	2530242	eutA putative etf
		STY3849	3705694	3706683	yiiD putative ac
STM2164	16.6	STY0684	680796	681749	ybeF lysR-family
		STY3720	3569296	3569784	rsD putative re
		STY3856	3711587	3712465	yihT putative alc
STM0343	18.66	STY3879	3734979	3735230	hypothetica
		STY1542	1495343	1495558	marB multiple an
STM2221	25.58	STY1230	1185516	1185689	rpmF 50S riboso
STM0371	18.43	STY1381	1334414	1334920	tpx thiol peroxi
		STY2742	2578652	2580718	ppk polyphosph
STM3361	61	STY3543	3382828	3383094	conserved
STM1391	7.22	STY4076	3933525	3934604	waaB lipopolysac
STM3494	30		349746	349859	hypothetica
STM0598	17.26	STY3725	3573612	3574382	thiG thiamine bi
STM1041	27.58	STY4010	3872958	3873251	putative se
STM3664	35.17	STY2156	2003441	2003596	hypothetica
STM2071	32.5	STY3908	3769916	3770155	atpE ATP synthe
STM4087	66.07	STY2242	2072104	2072898	pduF propanedic
STM0700	48.06	STY4493	4381279	4382616	putative an
		STY2120	1971404	1972540	conserved
STM0111	4.67	STY1339	1298278	1300953	acnA aconitate h
STM0760	57.63	STY2857	2727355	2728425	aroF phospho-2-
STM2961	67.05	STY3098	2966078	2967418	ygcX probable gl
STM3554	41.5	STY0467	473232	474341	phnT probable A
STM1008	17.13	STY3582	3436091	3436579	rfaH transcriptio
STM4490	7.55	STY3607	3460368	3461318	corA magnesium
STM2095	38.24				
STM3904	11.55	STY2093	1943261	1945072	edd 6-phospho

STM3951	33.04	STY3642		3499842	3501866	rep	ATP-deper
STM3312	5.77	STY0124		125516	127126	yabK	putative AE
		STY1303		1263048	1263695		putative me
STM1537	57.92	STY1915		1809357	1810088	hyaC	probable N
		STY3142		3014265	3015059	thyA	thymidylate
STM3627	46.79	STY1308		1268078	1269085	oppD	oligopeptid
STM0168	16.1	STY3833		3692583	3693242		putative ex
STM2986	37.67	STY3604		3458546	3459430		chloramph
		STY3650		3507263	3507640		conserved
STM2519	6.84	STY1933		1825912	1827444		conserved
STM2500	18.12	STY1294		1253291	1254133	purU	formyltetral
STM3129	37.89	STY1467		1417411	1418856		putative alc
STM0481	2.87	STY1976		1862732	1864780	prc	tail-specific
STM3482	8.1	STY2098		1950720	1952039	yebA	conserved
STM2649	16.01	STY0550		557239	558093	ybbN	thioredoxin
		STY0575		581945	583180	allC	allantoate
STM0162	16.64	STY0579		587512	588321		conserved
STM4251	22.9	STY0621		621896	622264	ybdF	conserved
		STY0664		664173	664583	rnk	regulator of
STM3186	17.04						
STM0777	8.16	STY1911		1804670	1805935		hypothetica
STM3483	25.33	STY1447		1399142	1399774		putative rib
		STY1444		1396641	1397843		putative gly
STM2723	17.13		STY1415	1365999	1366337		putative mu
STM4416	12.37	STY1382		1335036	1336001		putative ma
STM0353	40.97	STY0544		551169	553670	ybaR	copper-tran
STM3776	40.97	STY1538		1492316	1493506		putative me
STM4453	7.88	STY1503		1458887	1460671		putative hy
STM3136	47.82						
STM3742	10.15	STY0474		480008	480517		conserved
STM1481	56.26	STY4229		4095379	4096428		putative me
STM4042	23.64		STY3834; ;	3693242	3693487		hypothetica
STM3169	24.33	STY4123		3987138	3988897	yiaO	
STM0112	13.41	STY4062		3922416	3923012	ttk	putative Te
STM0005	5.09	STY4054		3915457	3917138		
STM1576	6.91	STY3117		2985634	2987052	fucK	L-fuculose
STM2318	9.49		aSTY4601				
STM1806	4.32	STY0430		440872	442074	sbcD	exonucleas
STM1919	9.61	STY3309		3156513	3157568		hypothetica
STM0572	36.18		STY4202	4069063	4069917		putative ph
STM3543	49.46	STY4100		3957949	3959004		putative lac
STM1209	12.63		STY3998	3864375	3864755		hypothetica
STM2513	4.66	STY2875		2743495	2754369		large repeti
STM0626	50.47		STY0061	61103	61789	citB	transcriptio
		STY0462		468725	469624	ispA	geranyltran
STM0255	47.52	STY3338		3181088	3181915		
		STY2387		2218812	2219279	yehS	conserved
		STY0934		926459	927358		putative me
STM1881	7.59	STY4152		4011911	4012450		putative ex
STM1220	19.5	STY4698		4557993	4558310	sugE	SugE prote

STM4212	13.89	STY4778	4639354	4639740	cybC	soluble cytr
STM1622	31.11	STY4360	4234558	4234860	rplW	50S riboso
STM0995	17.94	STY4714	4576235	4576696	yjeE	conserved
STM1538	13.27		3308799	3309200	rbfA	ribosome-t
STM2458	10.45	STY3379	3220060	3221493	rfaE	ADP-hepto
STM2284	6.44	STY3297	3143359	3144660	ordL	putative ox
STM1479	6.76	STY2942	2817449	2818819		putative gly
STM2485	6.75	STY4929	4790883	4792766	slt	lytic mureir
STM1742	5.48	STY0408	421872	423092	sbmA	probable A
STM4530	10.28		2277896	2278882	yeiR	conserved
		STY2301	2130254	2131333	rfbG	CDP-gluco
STM0023	16.14	STY2379	2209437	2211926	stcC	putative ou
STM0122	60.02	STY1965	1855187	1856932	ftsI2	penicillin-bi
STM2421	60.6	aSTY3268				
STM0115	14.07	STY3220	3088114	3089007	iciA	chromoson
		STY0796	792519	793307	ybgF	putative ex
STM2643	44.17	STY0855	849385	850752	rhlE	putative AT
STM1875	14.98	STY3199	3066210	3066923	dsbC	thiol:disulfic
STM1177	23.44	STY1218	1172084	1172866	flgG	flagellar ba
STM1081	54.97	STY0825	822856	823332	ybhB	conserved
STM2377	17.33					
STM3369	12.88	STY3496	3337058	3337633		possible ex
STM0493	7.02	STY4022	3883613	3884308	mgtC	conserved
STM2293	16.38	STY3254	3117351	3117917		putative me
STM0549	41.3	STY2155	2002473	2003129	sirA	invasion re
STM0670	1.92	STY3510	3349044	3353504	gltB	glutamate s
STM2205	15.13	STY3436	3280628	3281542		possible ca
STM2924	18.9	STY3390	3233766	3235748	rpoD	RNA polym
STM2956	17.62	STY1721	1641736	1642290	sscA	putative Ty
STM0256	20.03					
STM1792	62.58	STY0786	784316	785884	cydA	cytochrome
STM0404	19.69	STY2994	2868089	2868331	prgl	pathogenic
STM1751	57.6	STY2920	2800121	2800522	stpA	DNA-bindir
STM3825	21.89	STY4067	3926092	3926259	rpmG	50S riboso
STM1559	20.88	STY2863	2732520	2732768	rpsP	30S riboso
		STY0587	594450	594662	ybcJ	conserved
STM1103	13.34	STY1345	1305121	1305447		putative tra
STM2502	45.06					
STM3075	19.67	STY2174	2018610	2018843	yedF	conserved
		STY1473	1426016	1426249		conserved
STM1167	23.79		3469681	3470034		putative me
STM0092	18.02	STY3647	3504360	3504641	ppiC	peptidyl-prc
STM4170	49.86	STY0982	978131	978415	himD	integration
STM3201	22.76					
STM4386	57.86	STY4121	3984976	3985638	viaQ	putative he
STM1337	11.05					
STM0078	65.34					
STM4514	25.8					
		aSTY3614				
STM4335	38.11	STY4696	4556973	4557119	ecnB	entericidin
STM4413	46.84	STY4948	4807787	4807927		conserved
STM4234	60.61	STY0001	190	255	thrL	thr operon

STM4463	21.99				
STM3622	68.9				
STM0487	36.72				
STM3807	19.91	STY3376	3216815	3217018	glgS glycogen s
STM2116	26.55	STY3471	3316375	3316770	secG protein-exp
STM3832	17.46	STY0906	899920	900210	ybjC putative me
STM1163	20.44				
STM1006	45.67				
STM2530	5.98	STY0759	759249	760343	UDP-galac
STM0468	19.15				
STM2759	20.58				
STM1668	15.29				
STM4028	13.96				
STM4295	26.22				
STM2119	22.02	aSTY1958			
STM0747	6.6				
STM0038	61.24	STY0039	35339	37057	possible su
STM0326	16.39	aSTY2248			
STM0667	41.18	aSTY2332			
STM0377	33.49	aSTY2446			
STM1496	67.34	aSTY0964			
STM3835	26.86	aSTY3359			
STM2971	64.27	aSTY3422			
STM2479	64.82	aSTY3511			
STM2594	90.05				
		STY3189	3055153	3055644	hypothetica
STM3757	10.44	STY2069	1925965	1926261	hypothetica
STM2208	9.36	STY2299	2128040	2128879	rfbS paratose sy
STM2247	36.62	STY3686	3535233	3535679	putative ph
STM0113	19.4	STY3064	2926652	2926945	ygbF conserved
PSLT018	12.22	STY0207	216827	217411	staA putative fir
STM1922	4.07	STY3345	3189433	3190416	hypothetica
		STY3664	3518798	3519139	conserved
STM1201	40.26	STY3680	3532994	3533197	probable pl
		STY2887	2766359	2766874	probable m
		STY0201	210264	211439	staG putative fir
		STY0314	326689	327150	probable se
STM0006	35.99	STY3666	3519440	3519667	hypothetica
STM2468	23.62	STY3682	3533436	3533909	nucD putative lys
STM1957	91.58	STY3706	3550557	3550970	tnpA transposas
STM1631	10.5	STY4075	3932797	3933465	hypothetica
STM3381	30.75	STY1593	1539702	1539917	hypothetica
		STY1610	1548347	1548577	hypothetica
STM2517	23.9	STY2750	2587425	2587583	hypothetica
STM0827	10.02	STY2906	2787653	2788462	putative ex
STM3501	18.84	aSTY4108			
STM2289	47.48	aSTY4638			
		STY4668	4530511	4530999	conserved
STM2763	9.82	STY4821	4683853	4685118	integrase
STM3789	5.13	STY4549	4433025	4433687	pilU prepilin per

STM2297	10.64	STY4569	4447122	4448021	hypothetica
STM2204	2.64	STY4850	4710186	4712723	DEAD-box
STM1703	17.11	STY4619	4488638	4489015	putative me
STM3330	12.11	STY4648	4508347	4508634	hypothetica
		STY4665	4527028	4528617	hypothetica

STM2130	12.91		STY0744	742869	745577	kdpD	sensor pro
STM2273	25.13	STY3945		3812376	3813569		possible ra
STM0573	13.83	STY3927		3791019	3791978	pstC	phosphate
STM4507	13.6	STY3888		3749553	3750257		hypothetica
PSLT017	11.65	STY1904		1797626	1798249	hemM	outer mem
STM0329	58.14	STY0130		131087	132487	leuC	3-isopropyl
STM0722	3.63	STY0050		50447	51820		putative tra
STM0351	19.56	STY0139		141361	141819	yabB	conserved
STM0568	61.64	STY0173		176527	177897	aroP	aromatic ai
STM0027	47.5						
STM1327	10.82						

		STY0263		277885	278103	yaeP	conserved
STM2298	7.58	STY3526		3367154	3368278		putative AT
STM2784	29.5	STY3561		3405637	3405879		conserved
STM3215	7.45	STY0698		693269	693859	rlpB	rare lipoprc
STM3057	49.87	STY0717		712799	713974	yleB	putative mc
STM4294	48.81	STY0738		738049	739368	potE	putrescine-
STM4303	24.2	STY2170		2014775	2015143	fliT	flagellar pr
		STY1831		1749484	1751418		conserved

			STY2328	2156001	2156777	wcaA	
STM2305	18.76	STY4623		4489932	4490396		putative ca
STM2832	47.94						
STM2766	13.33						
STM0793	20.37	STY2912		2794492	2795775	gabT	4-aminobui
STM1146	31.03	STY4946		4806214	4806780		putative se

STM0340	17.24						
STM2006	32.29						
STM3515	3.36	STY1078		1053181	1055793	pepN	aminopepti
STM4308	41.02	STY1569		1519345	1519959		conserved
		STY4346		4224909	4225631	yheO	conserved
STM4208	5.58	STY1081		1057716	1058825		conserved
STM3190	9.55	STY1666		1595392	1596450		putative me
STM0386	14.84	STY4377		4241702	4242136	rplO	50S riboso
STM1073	13.12	STY4329		4211189	4213276	yhfK	
STM3134	2.22	STY4296		4172409	4174028	pckA	phosphoen
		STY1856		1765843	1766436		putative re

STM3109	2.67		STY1164; ;	1126533	1127390		putative me
STM2212	8.59	STY1238		1192282	1193298		putative se
STM3570	50.88	STY1258		1213359	1214060		ABC transp
STM4485	47.64	STY4269		4133883	4134416	gntK	putative gl
STM0908	74.2						

STM0597	8.29				
STM0730	26.58	STY3814	3677105	3677500	hypothetica
STM1965	5.81	STY3780	3646348	3647277	menaquino
		STY3745	3603465	3604565	trmA
STM1853	37.54	STY3030	2899240	2899896	possible se
STM4154	7.81	STY4697	4557150	4557737	ecnR
STM4445	6.3	STY2623	2457358	2458671	fadL
STM1951	50.51	STY0924	915467	916195	artP
STM2466	8.3	STY2709	2540186	2542465	maeB
STM0793	7.63	STY2735	2571687	2573150	
STM0966	18.61	STY2797	2653445	2654373	
STM0149	51.8		3668495	3668752	
STM3981	20.45	STY3771	3636785	3638529	
STM2903	30.42				
		STY3051	2917429	2918055	pcm
		STY3082	2945697	2947334	pyrG
					L-isoaspart
					CTP synthe
STM1033	45.65				
STM4432	5.79				
STM0007	6.87	STY1803	1722307	1723134	nadE
STM0386	13.24	STY1685	1612050	1612649	
STM0086	27.05	STY2192	2032030	2032257	yodD
STM1355	9.93				
STM3645	10.82	STY2514	2349474	2350733	glpB
STM1899	49.89	STY4855	4717972	4718697	
					anaerobic (
					conserved
STM3766	40.1		aSTY4875		
STM3744	8.64	STY1173	1136364	1137101	
STM1674	17.65	STY1818	1737762	1738313	
STM1901	15.04	STY1676	1604502	1605623	
STM3502	7.85	STY1652	1580815	1581744	tus
		STY1646	1574643	1574978	
STM0382	59.88	STY1191	1151523	1152737	yceE
STM2863	50.18	STY2986	2861845	2862693	sitD
STM3270	18.65	STY1669	1597769	1598404	nth
STM2494	11.02	STY2198	2036578	2037498	yedA
STM0190	8.97	STY2283	2109775	2110842	hisB
STM1714	4.92	STY1816	1734647	1736596	topB
STM3936	16.23	STY1678	1606411	1606845	slyA
STM2511	17.38	STY1689	1615107	1615454	ydhD
STM0427	8.95	STY1656	1586436	1587944	
STM1972	43.67	STY1705	1629738	1631039	ssaN
STM0124	20.88	STY3903	3764614	3765057	mioC
STM1614	45.2	STY4000	3865208	3866566	
STM1073	14.58	STY2824	2686529	2687260	pdxJ
STM0703	22.9	STY0433	443048	444343	phoR
STM2074	3.98	STY4401	4264737	4266338	aceB
STM3399	18.52	STY0079	80834	81430	caiE
STM2820	15.59	STY1789	1709680	1710348	
STM2403	7.56	STY1781	1703302	1704157	
STM3294	12.22	STY2189	2029969	2030763	fliR
STM3545	16.77	STY1660	1589725	1590840	
					flagellar bic
					putative ox

STM1651	15.09	STY1575	1525091	1525786	putative de
STM0508	11.74	STY2602	2438615	2439616	div
STM3279	6.85	STY2819	2682562	2683479	putative ox
STM2410	8.92				
STM2370	24.78	STY3358	3201025	3201339	conserved
STM1218	53.19	STY4241	4107254	4107922	ftsE
STM1114	13.46	STY4314	4192593	4193351	gph
STM0833	39.69	STY0380	390264	390788	possible ou
STM3547	44.54	STY1739	1660631	1661849	
		STY0509	516216	516785	conserved
STM4206	67.5	STY0607	609316	609678	gtrA
STM2898	15.91	STY4773	4633847	4634377	ppa
STM0600	39.51	STY4890	4751918	4754068	cstA
STM1723	11.64	STY3367	3209659	3210489	probable ca
STM2810	5.82	STY3397	3243758	3245775	conserved
		STY3401	3247078	3247575	conserved
STM1221	17.02	STY4305	4184842	4185381	yrfC
STM2466	12.34	STY2568	2404240	2406384	pta
		STY2800	2655185	2656462	csiE
		STY0577	584567	586231	fdrA
STM3081	49.46	STY0576	583202	584251	allD
STM3835	3.34	STY3033	2900744	2903311	mutS
		STY3811	3674335	3674835	cpxP
STM0829	21.38	STY0708	704016	704690	gltK
STM2427	14.23	STY4391	4252057	4252566	fms
STM0931	8.14	STY2828	2689868	2690842	lepB
STM0837	8.17	STY2287	2112921	2113532	hisI
STM3445	21.46	STY3871	3726120	3727943	typA
STM1225	40.34	STY0912	905141	906094	potH
STM3411	15.7	STY4387	4247800	4248213	mscL
STM2702	58.68				
STM2299	14.22	STY1223	1177419	1178372	figL
STM3843	18.5	STY2826	2688012	2688917	era
STM4283	36.9	STY4189	4051861	4053147	dctA
STM1815	8.97	STY2802	2657781	2659034	glyA
STM1597	4.29	STY1159	1117687	1121649	putA
		STY1655	1585158	1586333	manA
STM0842	56.07	STY0900	894194	895009	conserved
STM2803	9.88	STY0877	867253	868365	ybiR
STM0637	29.65	STY1993	1877393	1877659	hypothetica
STM4114	30.41	STY2403	2236039	2236236	hypothetica
STM0589	10.27	STY0767	766138	766971	conserved
STM0625	10.87	STY4502	4395010	4396641	dcuS
STM0136	15.91	STY2146	1995913	1996578	yecA
STM1746	54.03	STY1384	1336894	1338507	mppA
STM2758	36.18	STY1373	1328326	1328685	pspC
STM0957	16.07	STY4460	4344317	4346383	putative typ
STM3137	26.71	STY0057	57341	57790	fkpB
STM1149	26.51	STY1039	1025144	1025593	putative lipi
STM0591	34.83	STY1420	1371928	1372083	conserved
STM0041	8.45	STY3859	3714626	3716662	yihQ
STM3564	73.97	STY4244	4110398	4111492	livJ

STM2727	32.8		STY3669	3523084	3523272	hypothetica
STM0292	9.35	aSTY0321				
STM1598	11.65	STY2674		2509322	2510614	ptsJ putative tra
STM0790	16.29	STY2111		1962730	1963548	yecE conserved
		STY4457		4326304	4327581	putative typ
STM3982	23.78	STY3164		3036609	3037787	yqeF probable ar
STM4291	36.21	STY3388		3231555	3231770	rpsU 30S riboso
STM0449	16.71	STY3000		2873545	2874027	iagB cell invasio
STM4570	20.61	STY3591		3443878	3444639	udp uridine pho
STM1612	5.12	STY3940		3805127	3806527	dnaA chromoson
STM3587	17.26	STY3219		3087302	3087961	rpiA ribose 5-ph
STM1836	10.05	STY3626		3481759	3482499	rffM probable U
STM2360	15.66	STY3253		3116628	3117332	conserved
STM1400	14.35	STY3733		3585623	3585988	rplL 50S riboso
STM3640	32.62	STY0589		596077	596631	fimA type-1 fimb
STM4059	39.45	STY2125		1977243	1977632	cheY chemotaxis
STM3104	13.23	STY3877		3732783	3734156	hemN oxygen-ind
STM3908	23.7	STY3158		3031031	3031966	lysR transcriptio
STM4546	6.55	STY3869		3724468	3725346	hypothetica
STM4285	16.26	STY3612		3466407	3467231	dapF diaminopir
STM2957	5.69		STY3657	3515196	3550387	yifB
STM2771	36.69		aSTY2167			
STM2445	11.61	STY3074		2937019	2937753	cysH 3'-phospho
STM4486	20.97	STY1493		1450372	1451382	adhP alcohol def
		STY1454		1404648	1405628	putative tra
STM4577	4.46	STY1423		1373904	1376540	putative ex
STM1287	8.31	STY1393		1345254	1346150	putative tra
STM1506	37.18	STY1520		1476670	1477695	putative alc
STM3357	9.11	STY1551		1503716	1504402	putative req
STM4212	7.58	STY1004		1001995	1003395	asnS asparaginy
STM0192	48.29	STY0634		634904	635698	fepC ferric enter
STM0336	26.17	STY0372		383443	384204	stbB fimbrial cha
STM1283	13.83	STY1310		1270134	1270970	possible m
STM0621	5.42	STY1476		1427430	1428467	putative NA
STM2221	8.98	STY1964		1854312	1855121	rrmA rRNA guan
STM0125	13.28	STYkdgA		1942582	1943223	eda
STM1935	45.63	STY2141		1992209	1992712	yecI ferritin-like
STM2777	30.03	STYglxA2		569227	569708	allA
STM2265	8.4	STY0585		592342	593727	cysS cysteinyl-tF
STM3601	35.86					
STM1220	44.91	STY0426		435467	436375	yajF hypothetica
STM1539	49.33	STY3321		3168535	3169653	hyb0 hydrogenas
STM0092	11.5	STY2952		2829862	2830941	mltB membrane
PSLT017	18.59	STY4165		4024116	4025240	hypothetica
STM3131	17	STY4865		4727571	4728101	conserved
STM3685	14.31	STY2632		2465992	2466930	pgtE outer mem
STM3572	13.28	STY4021		3882205	3883170	yicL putative me
		STY3130		2998379	2999710	argA N-acetylglu
		STY3174		3043600	3044676	hypothetica
STM0452	7.5	STY3258		3120025	3121032	conserved
		STY0508		515141	516001	tesB acyl-CoA th

STM0129	9.72	STY2926	2802627	2803961	
STM1449	16.65	STY4069	3927194	3927673	coaD phosphopa
STM3999	35.48	STY3111	2979135	2979950	exo 5'-3' exonu
STM0537	7.61	STY3163	3035343	3036179	kdul 5-keto-4-de
STM0528	51.34				
		STY3294	3140728	3141252	hypothetica
STM2858	5.73	STY2950	2827753	2828814	recA RecA prote
STM0957	16.88	STY2330	2159020	2159469	wzb putative pr
STM1049	54.95		aSTY2469		
STM3592	9.91	STY4083	3940886	3941839	waaC lipopolysac
STM1975	23.31	STY4362	4235716	4235994	rpsS 30S ribosom
STM0498	8.64	STY3508	3347443	3348372	conserved
STM1216	9.78	STY3433	3277638	3278585	possible ca
STM1452	42.25	STY4211	4077083	4078552	putative PT
		STY0949	938913	939773	putative pir
STM0706	13.14	STY4783	4641842	4642486	putative me
STM3968	21.98	STY4921	4781705	4782424	deoD purine nucl
STM3390	41.46				
STM3369	28.21	STY1814	1732760	1733035	putative ex
		STY4688	4549751	4550992	yjeH putative pe
STM2551	22.03	STY2945	2821463	2821888	putative me
STM1826	57.41	STY2430	2259039	2260460	sdaC putative L-s
STM0588	11.41				
STM0339	22.93	STY2380	2211940	2212623	stcB putative fir
STM0356	16.53	STY2409	2240981	2242339	putative n-f
STM4152	3.63	STY1720	1640279	1641733	sseC putative pa
STM3584	17.98	STY1090	1069479	1069931	conserved
STM4511	12.87				
STM4250	9.08	STY0875	864623	866203	ybiP putative me
		STY1812	1731505	1732311	xthA exodeoxyri
STM0650	25.66	STY3432	3275827	3277398	garD D-galactara
STM0816	30.24	STY0850	843412	844518	putative inr
STM0671	38.44	STY3212	3079659	3080861	possible m
STM3273	5.95	STYnml	2009890	2011094	fliB
STM0600	15.52	STY3404	3249773	3250741	possible dr
STM2441	34.51	STY3233	3098929	3099585	possible A
STM0784	14.1	STY1129	1094909	1095319	putative ex
STM2867	26.23	STY2996	2869850	2870779	AraC-famil
STM1095	16.5	STY4029	3890702	3891166	fidL putative ex
		STY3341	3183611	3184066	conserved
STM1781	45.69	STY1714	1636978	1637193	ssaG putative pa
STM2274	22.41	STY1141	1104125	1105501	hpaX putative 4-f
STM1491	10.61	STY0811	807495	808970	modF putative mc
		STY2722	2559162	2559362	putative me
STM0012	19.91	STY2785	2642225	2644075	hscA chaperone
STM4192	36.02	STY2720	2557647	2558003	yffB conserved
STM0981	41.64	STY0524	531785	531952	ybaM conserved
STM1274	60.8	STY1925	1818448	1818720	putative me
STM0124	25.07	STY4411	4278739	4279011	conserved
STM0601	71.1	STY4889	4751620	4751823	conserved
STM4049	24.42	STY4278	4148814	4149140	glpE conserved
STM2147	32.5	STY4247	4111691	4112074	yhhK conserved

STM1461	24.93	STY4514		4405069	4405356	putative Ge
STM2404	17.18					
STM0937	42.03	STY4638		4503667	4503894	hypothetica
		STY4140		4004508	4005520	yiaH
STM4575	49.04					
STM1187	10.49	STY0363		372529	373773	yafA
STM2499	9.4	STY0004		3734	5020	thrC
STM1432	16.79	STY1582		1530608	1530889	asr
STM1641	27.51		STY1684	1611708	1611947	conserved
STM0014	46	STY0036		33368	34363	putative tra
STM2918	15.71	STY0073		74013	74834	dapB
STM0017	45.04		STY0038	34511	34816	putative tra
STM2423	25.11	STY0041		38773	39534	putative ex
STM0816	46.58	STY1197		1156543	1156656	conserved
STM2011	37.36					
STM0571	25.15	STY3455		3296202	3296750	putative ac
STM3616	22.61	STY3412		3255451	3255936	putative me
STM0899	28.12					
STM2223	40.31	STY0989		984996	985178	conserved
STM2593	70.28					
STM4067	10.55	STY0798		795337	796056	pnuC
STM4323	9.86					
STM0335	4.06					
STM1178	27.87					
STM3028	15.13					
STM1786	7.96					
STM3386	35.66					
STM4533	53	STY2128		1979723	1981384	tar
STM0032	61.15	aSTY0046				
STM3677	68.95	aSTY0118				
STM2559	69.1	aSTY0259				
		STY0321		331314	335378	Rhs-family
STM3241	67.19	aSTY0973				
STM0893	60.7	aSTY1011				
STM0911	56.21					
STM2597	70.1					
STM0475	70.63	aSTY3570				
STM2953	15.8	STY2053		1916899	1917150	putative ba
STM3923	18.14	STY3632		3487969	3488850	rffH
STM3029	13.28	STY3670		3523340	3523639	possible lip
STM2772	62.46	STY2889	STY3695	2768199	2768771	putative DN
		STY3950		3818303	3819430	hypothetica
STM3176	29.96	STY1545		1498702	1499058	putative pe
STM1670	29.89	STY2071		1926877	1927047	putative ba
STM2514	6.24	STY2349		2187521	2188240	putative ex
STM2959	60.5	aSTY2730				
STM0543	32.06	STY3918		3780596	3781171	stgA
STM2619	15.63	STY1361		1321082	1321351	hypothetica
		STY1599		1541714	1541986	hypothetica
STM2767	32.97	STY2351		2189209	2189652	putative ex

STM0747	18.09	STY2748	2585891	2586430		putative ex
STM2772	61.69	aSTY2889 aSTY3695				
STM2746	11.2	STY0203	212072	212686	staE	putative fir
STM0395	18.32	STY0323	336077	336370		hypothetica
STM0045	27.06	STY0479	483985	484248		probable se
STM0927	29.59	STY3692	3539686	3540279		hypothetica
		STY3948	3816148	3817170		hypothetica
STM3104	9.63	STY4208	4073368	4074021		putative lipi
STM4399	9.62	STY4521	4409652	4410686		hypothetica
STM2865	6.45	STY4554	4437266	4438141		hypothetica
STM0926	2.64	STY4573	4450338	4452761		hypothetica
		STY4672	4536854	4537315		hypothetica
		STY4825	4688741	4689370		phage pola
STM1009	7.18	STY4594	4470678	4471577		hypothetica
		STY4222	4087158	4088450		putative me
STM2754	14.57	STY4526	4415107	4415664		hypothetica
		STY4550	4433684	4434991	pilV	prepilin
		STY3018	2889969	2890376	spak	secretory p
STM2224	9.45	STY0532	539066	539710	adk	adenylate k
STM2128	12.72	STY2232	2062727	2063452	cbiH	precorrin-3
STM2198	50.52	STY3994	3859754	3861082	uhpC	regulatory p
STM0622	63.89	STY0069	69996	70865	citE2	citrate lyasi
		STY0105	102467	103288	ksgA	dimethylad
STM4556	3.92	STY0254	266430	269912	dnaE	DNA polym
STM2374	44.88	STY3485	3329075	3329362	nlp	Ner-like re
STM0844	26.92	STY3524	3366017	3366490	rpsI	30S riboso
STM2759	10.18	STY3557	3401700	3402704		conserved
STM0127	27.52	STY0690	685657	686769	mrdB	rod shape-
STM0828	56.93	STY0707	703291	704016	gltL	glutamate/
PSLT039	2.47	STY0191	200408	202798	gcd	glucose de
STM2428	20.42	STY0213	222159	222689	ligT	2'-5' RNA li
		STY0247	259264	261675	yaeT	outer mem
STM3136	58.64	STY1553	1504853	1506319		putative D-
STM0814	5.48	STY1522	1478591	1479682		putative se
STM4095	21.75					
STM0192	19	STY4242	4107915	4108970	ftsX	cell divisio
STM0196	8.6	STY4909	4769681	4770361		conserved
STM1522	37.35	STY0278	294737	295912		putative dru
STM3920	3.71	STY0354	361943	364387		possible ac
STM1383	4.81	STY1089	1067533	1069293		conserved
		aSTY4625				
		aSTY3677				
STM1785	24.26					
STM4367	24.16					
STM3467	12.74	STY1095	1072728	1074881		putative me
STM0041	8.47	STY1155	1115313	1115990	wrbA	trp repress

STM0778	8.21	STY1193	1154032	1155084	conserved
STM4256	16.65	STY3886	3742558	3743142 mobA	molybdopte
STM4283	20.37	STY1138	1101924	1102304 hpcD	5-carboxyn
		STY1175	1137732	1138262	putative me
STM0920	36.71	STY1235	1189783	1190019 acpP	acyl carrier
STM0788	3.99	STY1256	1208383	1211829 mfd	transcriptio
STM4465	5.42	STY4272	4137658	4139844 glgB	1,4-alpha-c
STM1622	30.8	STY1187	1146694	1148229 mdoG	periplasmic
STM0150	3.84	STY4301	4178276	4180480 yrfF	putative me
STM3764	8.69				
STM2672	10.13	STY1834	1753477	1754970	
		STY3867	3723230	3724471	
STM2037	62.01	STY3783	3648715	3649560 glpF	glycerol up
STM2782	11.46				
STM1000	20.16				
STM3851	15.69	STY4466	4351271	4352620	putative xa
STM1498	58.55	STY4503	4397074	4399424 dmsA	
STM3056	6.22				
STM2353	34.54	STY0922	913995	914711 artQ	arginine tra
STM3241	5.5	STY2654	2490763	2492187 gltX	glutamyl-tR
STM2595	76.1				
STM2481	6.18	STY0935	927559	929217	conserved
STM3905	11.85	STY1006	1004375	1005590	
STM1009	10.17				
STM3003	26.15				
STM3609	24.91	STY4489	4376088	4377590 proP	ProP
STM2211	34.66	STY4694	4556104	4556670 efp	elongation
STM0447	11.68	STY2615	2448733	2449557 mepA	penicillin-in
STM0034	24.88	STY2659	2496555	2497316 yfeN	conserved
		STY2713	2546128	2547171	putative ex
STM2505	79.69		aSTY2746		
STM0608	3.73	STY2999	2871866	2873527 iagA	invasion pr
STM0887	64.2	STY4711	4571986	4572750 artJ	probable ai
STM1712	26.08	STY4748	4606459	4606773 priB	primosoma
STM2752	3.93	STY2485	2313369	2315855 napA	probable ni
STM3512	63.02		aSTY4820		
STM0523	13.97	STY2565	2401589	2402083	conserved
STM3241	6.47	STY2556	2391513	2393315 nuoC	NADH deh
STM3773	21.83				
STM0830	41.05	STY2162	2007417	2008217 fliY	cystine-bin
STM0447	32.83	STY4355	4231652	4232128 bfr	bacteriofer
		STY1096	1074900	1075346 yccF	putative me
STM0877	23.55	STY1262	1217163	1218290 potD	spermidine
STM0925	11.6	STY2704	2537563	2538252	putative etf
STM0879	44.37	STY1265	1220668	1221531 potB	spermidine
STM0850	5.3	STY1783	1704611	1705570	putative ou
PSLT016	22.86	STY4728	4591236	4591934 yjfJ	
STM0221	11.79	STY4763	4620872	4621429 ytfJ	putative ex
STM2372	56.34				
STM3538	14.69	STY1182	1142423	1142749	conserved
STM2986	10.1	STY2000	1881004	1881918	putative me
STM2799	56.78	STY1299	1258003	1258416 hns	DNA-bindir

STM0529	15.8	STY1212	1167706	1168365	flgA	flagellar ba
STM0724	10.71					
STM3901	34.05	STY3986	3851123	3852811	ilvB	acetohydro
STM2406	18.87	STY3914	3775131	3775550	atpC	ATP synth
STM4343	8.26	STY2834	2696031	2697653	nadB	L-aspartate
STM2644	11.13	STY0270	282594	283301	yaeB	conserved
STM4220	9.54	STY0109	108222	109034	djIA	DnaJ-like p
STM4269	11.66	STY2614	2447924	2448733	yfcA	putative me
STM0426	10.21	STY1766	1689176	1689889		conserved
STM0173	9.06	STY1762	1685253	1686086		conserved
STM1572	62.03	STY1002	1000298	1001389	ompF	outer mem
		STY4250	4114588	4115865	livM	high-affinity
STM1734	6.85	STY1708	1633485	1634477	ssaL	putative se
STM0692	6.09	STY2483	2311811	2312680	napH	ferredoxin-
STM0276	90.9		315281	315766		conserved
STM0231	13.18	STY4906	4767703	4768731		conserved
STM1498	20.18	STY4158	4016623	4018956	bisC	biotin sulfo
STM1698	5.5	STY3439	3283987	3285258		
		STY3462	3304064	3304948		conserved
STM2413	23.79	STY2653	2490327	2490719	yfeD	conserved
STM2522	8.91		2618487	2619170		putative me
STM0245	30.18	STY0558	564336	565166	sfbA	lipoprotein
STM0634	13.38	STY0651	652161	653063	ybdO	putative lys
STM2816	8.97					
STM2350	10.24	STY4923	4783207	4784223	lplA	lipoate-prol
STM4187	42.93	STY4131	3993461	3994261	viaJ	putative tra
STM1142	11.61	STY4197	4063347	4063949	yhjB	hypothetica
STM0789	15.55	STY4201	4068168	4068887		gntR family
STM0312	39.48					
STM4325	11.78	STY4797	4658590	4659036		putative me
STM2068	13.07	STY1743	1663367	1664710		putative an
STM3635	4.68	STY4492	4379502	4381145		putative me
STM0019	11.71	STY1207	1164050	1164973	mviM	putative vir
STM3200	11.01	STY2695	2527466	2528827	eutB	ethanolami
STM2539	28.44	STY3850	3706680	3707117	yihZ	conserved
STM4532	5.59	STY0683	679625	680590	lipA	lipoic acid s
STM1980	34.1	STY1700	1627076	1627342	ssaS	putative typ
		STY2240	2068997	2070421	cbiA	cobyrinic a
STM2913	10.29	STY4096	3954197	3955018	cysE	serine acet
STM4275	13.36	STY0846	839949	840911	ybhN	putative me
STM2219	17.5	STY0816	811736	812794	modC	molybdenu
STM1888	48.56	STY1744	1665112	1666524	pykF	pyruvate ki
STM1951	41.79	STY2581	2417151	2417927	hisP	histidine tra
		STY0132	133581	135152	leuA	2-isopropyl
STM3348	37.85	STY0231	241500	242927	htrA	protease D
STM4170	68.55	STY0493	500253	500525	hupB	DNA-bindir
STM1801	5.72	STY4388	4248355	4249731	trkA	potassium
STM1196	34.26	STY3004	2876422	2876670	sipF	probable ar
STM0023	44.16	STY0593	598006	600618	fimD	outer mem
STM2253	15	STY0772	769551	770597		putative me
STM4416	14.66	STY0782	781859	782728	sucD	succinyl-Cc
STM4005	43.9	STY3711	3561370	3562695	hydG	transcriptio

STM2565	24.48	STY4210		4076233	4076991	conserved
STM3638	5.8	STY2245		2074535	2076199 pduC	glycerol de
STM3579	10.31		aSTY3006			
STM2850	12.43	STY2552		2385945	2386922 nuoH	NADH deh;
STM1441	6.69	STY3545		3383598	3385565 yhcP	putative me
STM4257	40.16		STY4452; ;	4322993	4323625	putative ex
STM3056	8.04	STY2856		2726224	2727345 tyrA	chorismate
STM0041	12.91	STY1177		1139160	1139576 csgF	assembly/t
STM3885	18.82	STY3854		3709607	3710530 yihV	putative su
STM2791	14.7	STY3716		3566012	3566620 yjaG	conserved
STM2272	14.81	STY2968		2845058	2845468 hycH	formate hy
STM4018	63.76	STY3861		3718136	3719557	putative me
STM0852	7.84	STY0716		711231	712697 miaB	MiaB prote
STM0109	29.34	STY0498		504580	506280 ybaE	putative so
STM0646	5.33	STY4475		4361222	4362658 nrfA	cytochrome
STM2517	17.39	STY1395		1347328	1349310	invasin-like
STM3261	13.58	STY3563		3407332	3408213 prmA	ribosomal p
STM1642	6.37	STY3128		2995296	2996393 mltA	membrane
STM2974	7.83	STY3041		2909280	2909918	possible su
STM0398	19.58	STY3813		3675681	3677054 cpxA	two-compo
STM3794	41.24	STY0897		891157	891915 deoR	deoxyribos
STM3370	42.45	STY3616		3470104	3470424 cyaY	CyaY prote
STM3531	13.73	STY3653		3509746	3511596 ilvD	dihydroxya
STM1356	57.14	STY0083		85326	86468 caiA	probable c:
STM2982	26.31	STY3655		3512700	3512960 ilvM	acetohydro
STM0747	18.54		STY2769	2621651	2622625 yfgA	putative DN
		STY1944		1833688	1834395 minC	septum site
		STY1321		1278795	1279310	conserved
STM4285	19.47	STY3113		2981207	2981854 fucA	fuculose-1-
STM3899	4.3	STY3061		2925121	2926167 iap	alkaline ph
STM3964	12.56	STY3596	aSTY3595	3450821	3451720 yigM	putative me
		STY3621		3474982	3475923 hemC	porphobilin
STM2850	21.66	STY3738		3588809	3589192 secE	preprotein i
STM2971	69.8	STY1956		1844980	1846344 sdaA	L-serine de
STM4189	22.34	STY1281		1235888	1236988 chaA	putative ca
STM2913	11.93	STY1907		1800435	1802120	putative su
STM0574	39.02	STY1961		1851971	1852822 manZ	phosphotra
STM2497	9.89	STY2080		1934303	1935178	putative ca
STM1446	9.56	STY2109		1960070	1961842 aspS	aspartyl-tR
STM2915	53.3	STY0566		572484	573260 hyi	hydroxypyr
STM3737	8.04		STY0586	593818	594366 ybcl	putative me
			STY0616; ;	614326	614766	hypothetica
STM0400	49.53	STY1481		1433410	1434930 ansP	L-asparagi
STM1117	16.84	STY1446		1398335	1399126	putative re
STM3537	38.15		STY1505	1463253	1465064 glgX	putative gly
STM3855	8.07	STY1931		1824291	1825589 dadA	D-amino ac
STM1567	18.35					
STM1253	51.9		STY1431	1383466	1383870	putative cy
STM0370	8.83	STY1397		1350263	1350820	putative thi
STM3388	30.84	STY1349		1307186	1309168	conserved
STM0052	56.44	STY0675		674421	675101 dpiA	transcriptio
STM3695	14.34	STY0986		982691	983668 lpxK	tetraacyldis

STM4470	9.22	STY0961	954308	955600	serS	seryl-tRNA
		STY3251	3114814	3115500	kdgR	probable gl
STM2162	6.43	STY0501	507959	509014		putative lya
STM3106	33.75		STY4203	4069850	4070180	
STM2099	8.42	STY3204	3069440	3070420		conserved
STM2531	17.41	STY4112	3973306	3973914		putative gl
STM2530	14.16		aSTY4036			
STM2791	12.62	STY3355	3198957	3200306		probable tv
STM4544	6.31	STY2870	2739173	2740834	recN	DNA repair
STM3618	32.26		STY3202	3068542	3068889	conserved
STM1032	3.16					
STM0816	35.34	STY4225	4093033	4094257		
STM1885	4.44	STY4178	4037181	4038752	yhjS	conserved
STM3631	11.7	STY4046	3906477	3907868		putative pu
STM2123	14.33	STY2859	2729376	2730596	yfiN	putative me
STM2772	60.26		STY4608	4481369	4481590	pin
STM4284	6.49	STY3243	3107377	3108531	metK	S-adenosyl
		STY0486	490748	492223	ampG	AmpG prot
STM0325	5.81					
STM2128	34.25	STY2340	2173488	2176610	yegN	putative RM
STM4483	37.28	STY2401	2233585	2234346	yohF	putative ox
STM2223	21.89	STY4385	4246732	4247100	yhdN	conserved
STM2441	18.36	STY0938	931425	933371	ybjZ	conserved
STM3677	65.46	STY4744	4604495	4605181	sgaE	probable cl
STM2851	16.97	STY4817	4678442	4679542		putative inr
STM3314	13.86	STY0927	917387	918217		putative N-
STM2768	17.08	STY4724	4586962	4587387	yjeB	conserved
STM2281	5.86	STY3428	3269977	3270915	tdcA	TDC opero
STM1538	27.65	STY3318	3164678	3166381	hybC	hydrogena:
STM2751	46.93	STY2955	2832739	2833101	srlB	PTS system
STM3169	3.52	STY2964	2840627	2842867	hypf	hydrogena:
STM0499	43.59					
STM2321	10.68	STY2970	2846232	2846774	hycF	formate hy
STM0488	21.18	STY2461	2292820	2293104	rplY	50s ribosor
STM3691	7.19	STY2322	2151705	2152259	wcaF	putative ac
STM2777	10.28	STY2434	2262909	2264900	cirA	colicin I rec
STM4385	11.55	STY1897	1792009	1792863	kdsA	2-dehydro-
STM0963	10.75	STY3247	3111874	3112605		conserved
STM2144	13.3	STY0758	758250	758990		hypothetica
STM1385	2.52	STY0831	829029	831050	uvrB	excision nu
STM1356	10.22					
STM3541	40.26	STY3503	3342185	3342457	ptsO	phosphoca
STM0950	78.39	STY4025	3888370	3889050	slsA	conserved
STM1062	48.99	STY0879	869549	871144	ybiT	ABC transp
STM0209	39.51	STY3528	3369026	3370393	degQ	serine prot
STM3782	43.71	STY3443	3286056	3287429	gatC	PTS system
		STY3371	3213820	3214491	dsbA	disulfide isc
STM2830	7.05	STY2492	2321227	2322279	yojL	thiamine bi
STM2440	24.82	STY0790	787814	788218	ybgC	conserved
STM4401	7.92	STY3479	3323177	3324610		Penicillin-b
STM2311	51.29	STY3409	3254294	3254599		conserved
STM0629	70	STY4153	4012626	4012838	cspA	cold shock

		STY3229		3096533	3096958	conserved
STM0898	32.66		STY0774	772118	772363	hypothetica
STM0145	20.89	STY0822		818643	819368 hutC	histidine uti
STM1793	59.88	STY0787		785900	787039 cydB	cytochrome
STM0096	43.44	STY4066		3925835	3926071 rpmB	50S riboso
STM1651	18.12	STY2993		2867765	2868070 prgJ	pathogenic
		STY1707		1633059	1633427 ssaM	putative pa
STM4238	22.39	STY1953		1842510	1842689	conserved
STM2368	30	STY0613		613438	613674	hypothetica
STM3524	12.21	STY1731		1651581	1652540	putative pa
STM4491	40.22	STY4289		4163888	4164124 yhgG	conserved
		STY3737		3588262	3588870 nusG	transcriptio
STM1625	16.44	STY3708		3551580	3552416	possible Ly
STM3191	19.5	STY3579		3431563	3433386	possible tra
STM2713	21.83		aSTY4617			
STM4558	20.1	STY1475		1426703	1427218	putative ac
STM0145	5.53	STY0119		119492	120994 araA	L-arabinosi
STM0685	47.33		STY1657	1588113	1588283 malX	
		STY1876		1780271	1780444	hypothetica
		STY3003		2876118	2876378	doubtful CF
STM2080	50.94	STY2916		2798595	2798753	conserved
STM4581	34.5	STY0133		135240	135326 leuL	leu operon
			STY4604	4479078	4479197	hypothetica
STM1528	46.48		aSTY1533			
STM0994	52.03	STY3985		3850918	3851016 ivbL	ilvBN operc
		STY3469		3313654	3314076	conserved
STM3674	11.17	STY3472		3316930	3318267	PGM/PMM
STM0903	23.64	STY1036		1023687	1024484	putative pro
STM0325	23.61					
STM3672	37.03	STY0789		787304	787585	putative me
STM0660	10.4					
STM1170	17.25					
STM3997	37.33	STY4845		4703505	4704156	
STM1246	60.2					
STM2761	12.46					
STM1871	71.32					
STM2473	60.35	aSTY0007				
STM1572	22.9		aSTY2203			
STM3922	55.46	aSTY2307				
STM3858	39.91	aSTY2439				
STM4334	30.14		aSTY2447			
STM3830	13.11	aSTY3325				
STM3152	30.24	aSTY3394				
STM0973	66.68	aSTY3423				
STM0209	33.98	aSTY3528				
STM0922	69.24					
		STY2061		1921742	1922554	conserved

STM1861	24.91	STY2077		1932482	1933558		putative int
STM2085	17.58	STY2356		2191545	2191823		hypothetica
		STY2885	STY3699	2765868	2765987		putative ba
STM0150	6.42	STY0115		116031	117239		putative IS
		STY0312		325657	326130		probable se
STM0995	13.32	STY3644		3502694	3503437		probable ui
		STY3672		3525240	3526154		hypothetica
STM3986	40.47	STY3688		3536323	3536682		phage base
STM0624	8.06	STY3066		2927865	2928569		conserved
		STY0296		311765	312055		hypothetica
STM3515	7.43	STY0345		351764	352474	tcfA	putative fir
STM0149	5.87	STY3674		3526926	3527963		probable ca
STM4201	8.25	STY3690	STY4612	3537570	3538175		putative ph
STM2592	6.06	STY3922		3784535	3785602	stgD	probable fir
STM4495	38.17	STY1367		1323331	1323468		hypothetica
		STY1601		1542275	1542850	gam	bacterioph
		STY1618		1554283	1554741		putative ba
		STY2883	STY3701	2762316	2762810		putative ba
STM1680	3.9	STY3070		2931004	2932539		hypothetica
STM2722	12.92	STY4627	aSTY3675	4493201	4494967		probable te
		STY4651		4510583	4512553	vexE	Vi polysacc
STM2006	29.41	STY4676		4538390	4539172		hypothetica
STM0243	12.71		STY4829	4691273	4691656	cl	phage imm
		STY4560		4441022	4441522		hypothetica
STM1576	4.26	STY4577		4454829	4456259		hypothetica
		STY4883		4743384	4744970	hsdM	
STM0580	5.36	STY4635		4499824	4502238		conserved
		STY4656		4516537	4518273	tviE	Vi polysacc
STM3306	55.37	STY4673		4537312	4537533	cII	transcriptio
STM3178	13.58	STY4490		4377757	4378836	pmrB	two-compo
STM2740	28.11						
STM1216	4.86	STY3904		3765436	3767325	gidA	glucose inh
		STY3499		3338936	3340369	rpoN	RNA polym
STM3835	44.84	STY3359		3201464	3203356	parE	topoisomer
STM2432	19.8	STY3483		3327301	3327612	rplU	50S riboso
STM0619	50.82	STY0072		72925	73833	citG2	citg protein
STM2776	8.37	STY0154		158349	159266	lpxC	UDP-3-O-[:
STM1452	24.13	STY0189		198171	198518	yacC	conserved
STM0356	13.66	STY0210		219841	220737	yadB	glutamyl-tR
STM2274	18.81	STY0245		257011	257868	cdsA	phosphatid
STM1542	37.29		aSTY1555				
STM2804	3.39	STY3549		3389538	3393338		possible ex
STM3208	21.55	STY0680		678420	679207		
STM0657	48.31						
STM2039	4.61	STY0725		725520	726926	ybfM	putative ou
STM2249	11.01	STY0754		755920	756654		conserved

		STY2635		2470438	2471631	pgtC	phosphogly
STM1956	5.3	STY2311		2140648	2141926	wcaK	
STM4574	49.04						
PSLT082	7.23	STY0305		317713	319014		putative me
STM0685	18.41						
STM1088	30.39	STY2897		2779866	2780918		conserved
STM0924	59.69						
STM2660	20.09	STY0294		309016	311679		ClpB-like p
STM2833	30.76						
PSLT101	28.19	STY0368		378398	378796		probable se
STM2780	35.37	STY1117		1086906	1087781	pipB	conserved
STM0499	40.2	STY4386		4247111	4247536	zntR	putative Zn
		STY4332		4214265	4214669	yhfA	conserved
STM1061	12.4	STY1103		1079782	1080993		conserved
STM3359	11.67	STY1561		1510962	1511522	speG	spermidine
STM0048	16.16	STY4343		4222599	4223189	slyD	FKBP-type
STM2987	15.46	STY4304		4184063	4184842	yrfD	conserved
STM3972	10.25	STY1278		1233870	1235120	icdA	isocitrate d
STM4185	15.37	STY1839		1756268	1757062		putative tra
STM0086	16.91	STY4341		4220489	4222294	kefB	glutathione
STM3638	9.01	STY1249		1202272	1203297		putative gly
STM4492	16.52	STY1871		1778004	1778474		putative he
STM2517	50.89						
STM3801	4.95	STY3828		3689433	3690259	rhaD	
STM1651	7.54						
STM3883	23.01	STY3794		3658357	3659358	ydeZ	putative AE
STM3826	11.42						
STM2168	29.19	STY2982		2858736	2859080	ygbA	conserved
STM3248	45.17		STY3043	2910690	2911210	ygbJ	
STM2403	14.84	STY2608		2442887	2443543		conserved
STM2503	31.13	STY2651		2487168	2489357	yfeA	putative me
STM4526	6.45						
		STY2723		2559389	2561440		conserved
STM0956	27.02	STY0955		943885	945651	cydD	transport A
STM0926	92						
		STY3788		3653687	3654283	yjiQ	conserved
STM3222	4.23	STY4421		4289054	4291150		putative lipi
STM3512	20.29	STY3038		2906016	2907512		possible pe
STM1199	9.13						
STM0056	9.56		STY0914	907010	907483		putative me
STM1022	24.34						
STM1043	62.53						
		STY2770		2622919	2624085	yfgB	conserved
STM0790	6.78	STY1759		1680209	1681327		putative me
STM3279	26.89	STY2145		1994627	1995838	tyrP	tyrosine-sp
STM0203	20.24	STY2202		2040217	2040528		putative me
STM2851	19.33						
STM3655	7.84						
		STY4873		4734624	4735895		putative me
STM3576	40.98	STY4857		4720737	4720994		hypothetica
		STY2597		2433710	2434624	accD	acetyl-CoA
		STY1268		1224135	1225469		hypothetica

STM0282	19.73	STY1775	1697311	1697667	rpIT	50S riboso
STM0685	55.06	STY2670	2507478	2507987	crr	pts system
STM3338	18.09	STY1840	1757163	1758347		putative me
PSLT068	11.1	STY1099	1078113	1078775		putative se
STM0732	7.22	STY2987	2862970	2863725	sprB	possible Ar
STM1082	3.03	STY2494	2324258	2326927	yojN	putative tw
STM0984	3.16	STY2154	2000644	2002476	uvrC	excinnuclea:
STM3577	4.87					
STM0793	18.29	STY2490	2319432	2320082	alkB	AlkB protei
		STY1797	1716955	1718310	celF	phospho-br
STM3859	11.86					
STM2435	38.73					
		aSTY1672				
STM3582	57.11	STY1587	1533109	1534143		putative me
STM1179	10.02	STY4428	4298723	4299640	malM	maltose op
STM0060	5.63	STY3952	3822350	3823390	torT	Solute bind
STM3677	26.14	STY3975	3841982	3842344	yidG	conserved
STM4082	12.96	STY0239	251181	251906	rpsB	30S riboso
STM3286	5.83	STY0404	415253	416227	hemB	delta-amin
		STY0152	155774	157036	ftsA	cell divisio
STM2847	36.26	STY2557	2393402	2394064	nuoB	NADH deh;
STM2594	8.69	STY1329	1287419	1288300	trpH	conserved
STM1106	8.37	STY3941	3806532	3807632	dnaN	DNA polym
STM3826	12.23	STY1728	1647071	1649833	ssrA	putative tw
STM2267	67					
		aSTY1649				
STM3639	51.33	STY0592	597283	597975	fimC	fimbrial cha
STM2818	13.54	STY3934	3797363	3798118	yieE	conserved
STM3338	22.8	STY0387	393469	394722		putative me
STM2069	11.66	STY2837	2699872	2700754	yfiE	
STM0647	6.79	STY3393	3237661	3238305		conserved
STM1389	13.99	STY4279	4149216	4150046	glpG	putative me
STM2086	31.91					
STM0031	13.33					
STM1010	47.29					
STM2179	12.82	STY0637	637802	639046	ybdA	hypothetica
STM3523	29.88	STY4737	4598488	4599243	yjfQ	probable tr
STM2536	30.47	STY4816	4676536	4678047		cytosol ami
STM2381	8.38	STY2843	2704746	2705426		conserved
		STY3381	3224502	3225830		conserved
STM2970	30.83	STY3426	3267539	3268869	tdcC	
STM2289	54.85	STY3431	3274526	3275296	garL	5-keto-4-de
STM1106	58.58	STY2519	2353637	2354440		putative 2,4
STM0285	7.53	STY2737	2573576	2574310		conserved
STM3178	13.97	STY0530	536060	536665	recR	recombinat
STM0226	19.93	STY0515	520263	520814	maA	maltose O-
STM0588	16.34					
STM3342	7.84	STY3874	3728319	3729728	glnA	glutamine s
STM0970	29.75	STY0883	876118	877017	ybiY	putative py
STM2523	9.04	STY0781	780693	781859	sucC	succinyl-Cc
STM4589	4.86	STY3875	3730003	3731052	glnL	Two-compr
STM2355	70.5	STY2584	2419511	2420293	hisJ	histidine-bi
STM0840	10.01	STY0138	139751	140755	fruR	fructose re
STM3045	42.79	STY0732	733114	733644	fldA	flavodoxin

STM4342	21	STY0778		775282	776001	sdhB	succinate c
STM0226	10.23	STY0251		263877	264665	lpxA	acyl-[acyl-c
STM3807	7.53	STY2861		2731141	2731980	trmD	tRNA(guan
		STY4718		4580924	4581232	hfQ	host factor-
		STY1902		1796056	1797312	hemA	glutamyl-tR
STM1756	23.89	STY2741		2577825	2578463	purN	phosphorib
STM1305	9.27	STY0885		878044	879285	moeA	molybdopte
STM0482	9.31						
STM1064	14.29	STY3809		3672144	3673160	pfkA	6-phosphol
STM1952	22.49	STY0709		704690	705430	gltJ	glutamate/;
STM0069	19.98	STY4398		4256466	4257020	yrdA	putative tra
STM0762	22.41	STY1464		1414473	1414703		conserved
STM1007	99.6	STY1013		1010373	1010618		putative ba
STM0006	21.12	STY2253		2081209	2081700	pduM	conserved
STM3583	6.01	STY4485		4372970	4373878		putative me
STM0160	24.12	STY2157		2003593	2003817	yecF	conserved
STM0351	15.74	aSTY4458					
STM2794	13.5	STY3537		3378873	3379478		possible tra
STM2255	12.11	STY0010		10092	10805		conserved
STM1588	6.96	STY0003		2801	3730	thrB	homoserine
STM3737	40.94	STY1779a		1702923	1703129		hypothetica
STM1392	39.68	STY2078		1933756	1933872		hypothetica
STM3610	3.96		STY3447	3290485	3292536		possible ex
STM2204	31.93	STY2712		2545770	2546000		hypothetica
STM1034	30.39						
STM3883	13.68	STY2421		2250297	2251370	mgIC	galactoside
		STY0619		618821	620791	apeE	outer mem
STM0364	30.61	STY0218		228147	230338	fhuA	
STM2353	16.26		aSTY4459				
STM4223	13.5	STY2555		2391010	2391510	nuoE	NADH dehy
STM1585	57.68	STY3150		3021387	3021605		possible lip
STM4495	9.56	STY3575		3425869	3426483	yigZ	conserved
STM4281	21.15	STY3599		3453744	3454364	rhtB	homoserine
STM0910	9.26	STY3624		3477851	3479050	hemY	Porphyrin t
		STY3735		3586968	3587672	rplA	50S riboso
STM0493	5.28	STY3634		3489950	3491212	rffD	UDP-ManN
STM0889	17.92	STY3742		3593509	3594537	murB	UDP-N-ace
STM1415	41.69	STY2180		2023515	2024885	fliI	flagellum-s
STM2206	42.29	STY2667		2505403	2505660	ptsH	phosphoca
		STY0121		123055	123900	araC	arabinose (
STM4285	6	STY3081		2944316	2945614	eno	enolase
STM0392	9.18	STY3786		3652305	3653051	fpr	ferredoxin-
STM3521	16.7	STY2285		2111432	2112169	hisA	phosphorib
STM3239	5.34	STY3629		3484927	3486177		putative lip
STM0255	10.23	STY3719		3568430	3569230	yjaD	conserved
STM1526	6.53	STY0412		425056	426150	ddlA	D-alanine:1
STM0740	4.46	STY2130		1982145	1984160	cheA	chemotaxis
STM3603	49.73	STY1924		1816673	1818385	treA	
			STY1440	1391326	1392426		
STM3772	8.32	STY1406		1357108	1357671		conserved
STM0890	65.8	STY0920		912359	913090	artJ	arginine-bir
STM0063	51.27	STY0668		667277	668173	citG	CitG protei

		STY0992	987005	987781	ycbC	putative me
STM3508	60.6	STY4020	3881221	3882162		conserved
STM4108	44.4	STY0646	647794	648882	ybdH	putative ox
STM2222	28.13	STY1331	1289029	1289904		putative ps
STM4037	75.8		STY1492	1449249	1450391	fdnG
STM2323	6.53	STY1951	1840118	1842028		putative AT
STM1703	3.77	STY1980	1867456	1870095		conserved
STM1009	15.86					
PSLT110	15.09	STY2105	1957586	1958185	yebB	conserved
STM1688	32.54	STY0526	532562	532939	ybaN	putative me
STM2851	5.9	STY0572	578601	579899		putative pe
STM4204	20.84	STY0605	606760	608400		putative me
STM4526	20.86	STY1490	1446547	1447125		putative req
STM2238	6.62					
STM2293	93.24	aSTY2523	STY2518	2353461	2353631	
STM3626	9.3	STY2891	2770645	2774301	iroC	putative AE
STM3301	5.58	STY4144	4007030	4009099	glyS	glycine-tRN
STM1185	15.95		aSTY0793			
STM4111	100					
		STY3352	3196819	3197685		possible Ar
		STY3157	3029651	3030913	lysA	diaminopir
		STY3238	3103463	3104383	speB	agmatine u
STM0437	12.94					
STM3666	41.44	STY2965	2843013	2843558	hydN	electron tra
STM3274	32.34	STY4159	4018925	4019365	viaC	putative ac
STM0575	48.95	STY4015	3877536	3878285		putative PT
STM2915	25.17	STY3136	3011941	3012348	ygdB	conserved
STM0339	13.04	STY3178	3049366	3049965		conserved
STM0880	14.84	STY3272	3131717	3132424	yqgA	putative me
		STY3316	3163703	3164191	hybE	hydrogenas
		STY4626	4492225	4493058		putative ca
STM1491	42.22	STY2393	2223544	2224491	yehX	ABC transp
STM1515	9.52	STY1949	1838713	1839294		putative lipi
STM3842	13.71	STY4370	4238803	4239342	rplE	50S riboso
STM2272	7.51	STY4261	4125259	4126293		puative phc
STM4543	2.63	STY3474	3319213	3321147	ftsH	cell divisio
STM2842	8.16	STY3387	3230314	3231327		possible gly
STM1381	58.19	STY4263	4127315	4128076		hypothetica
STM0998	9.68	STY3489	3331472	3332170		possible ex
STM0994	15.38	STY4862	4725066	4725839	uxuR	uxu operon
STM2817	3.75	STY4682	4543876	4545579	dsbD	thiol:disulfic
		STY0406	419711	420334		conserved
STM2323	17.29	STY2372	2203122	2204126		putative hy
STM2316	32.61	STY2957	2833969	2834328	srlM	glucitol ope
STM0537	4.58	STY2384	2215321	2217354	metG	methionyl-t
STM3847	25.12	STY2458	2288870	2290060	bcr	bicyclomyc
STM1049	40.06		STY2469; ;	2301136	2301918	
		STY2398	2231109	2232056	pbpG	
STM0600	10.78	STY0280	296922	297692	yafE	putative me
STM0925	30.16	STY1713	1636710	1636937	ssaH	putative pa
STM4323	19.95	STY0776	773155	773502	sdhD	succinate c
STM0603	5.53		STY0845	839704	839946	

		STY2865		2734639	2735430	corE	putative me
STM2993	20.77		STY3454	3295898	3296215		conserved
		STY3407		3253356	3253739		putative ex
STM1744	48.72	STY0890		884861	885772	yliD	hypothetica
STM4279	37.06	STY1736		1655478	1656230	ttrB	tetrathional
STM2107	5.63	STY3413		3256004	3256990		conserved
STM4040	20.97	STY3328		3173337	3173747		hypothetica
STM0694	39.54		STY3201	3067956	3068477	fldB	flavodoxin
STM1347	60.08	STY0801		797808	798860	aroG	phospho-2-
STM3577	7.93	STY1222		1175743	1177404	flgK	flagellar ho
STM4247	16.86	STY2124		1976588	1977232	cheZ	chemotaxis
STM1597	36.91	STY3298		3144822	3146306		possible alk
STM2364	48.15	STY1149		1110244	1110606	scsA	membrane
		STY0795		791985	792509	pal	peptidoglyc
STM4429	25.82	STY0829		826944	827699	bioC	biotin synth
STM1366	60.02	STY0643		644797	645210	ybdB	conserved
		STY2783		2641676	2641876	yfhJ	conserved
STM3391	63.89	STY2719		2553752	2556865	acrD	putative eff
STM0152	39.57	STY2947		2823850	2824035	csrA	carbon stor
STM2598	58.77						
STM1324	22.55						
STM2513	23.4	STY4051		3914247	3914522	rpoZ	DNA-direct
STM2039	10.08	STY4110		3969546	3970694	mtlD	mannitol-1-
STM4235	24.66	STY4448		4317425	4317763		hypothetica
STM3799	17.49	STY2367		2198696	2199031		putative me
STM0551	17.34						
		STY4179		4038997	4039200		conserved
STM4538	7.92	STY0297		312119	312661		conserved
STM0596	14.72						
STM0646	10	STY0611		610886	611740	ykgD	hypothetica
STM4482	21.93						
STM3349	19.27	STY1497		1454503	1454934	osmC	osmotically
STM2458	22.14	STY0053		52646	52861		conserved
STM2833	8.73						
		STY3958		3828729	3830129	yhjA	probable cy
STM3639	13.35						
		STY2788		2645152	2645538	nifU	NifU-like pr
STM0310	22.18	STY3449		3292911	3293501		probable pl
STM1383	35.25						
STM0865	13.11	STY0908		900974	901876	rimK	ribosomal p
STM1996	54.64	STY0940		933501	933722	cspD	cold shock
STM0894	44.04	STY1012		1010084	1010332	xis	excisionase
		STY0839		837202	837453	moaD	molybdopte
STM2867	27.21						
PSLT022	66.52						
STM3488	11.91						
STM4412	28.13						
STM3639	35.34						
STM2240	9.25						
STM4131	38.86						

STM0891	39.6	aSTY2159
STM0621	68.18	aSTY0070
STM3348	29.42	aSTY0231
STM2657	89.82	
STM0452	17.82	
STM3077	61.13	aSTY0979
STM0910	60.08	
STM0912	45	
STM2595	53.86	

STM1821	9.15	STY3343	3186507	3187928	putative ex
STM0193	13.61	STY3662	3517867	3518376	regulatory p
STM2761	5.43	STY2629	2462589	2464511	putative lipi
		STY3844	3703089	3703463	hypothetica
		STY1359	1319944	1320117	hypothetica
STM3295	11.83	STY1597	1541022	1541450	hypothetica
STM1959	54.15	STY2167	2011173	2012693	fliC flagellin
STM4261	7.16	STY2358	2192559	2193059	conserved
		aSTY2887 aSTY3697			
STM1289	10.81	STY4039	3898639	3899235	hypothetica
		STY1591	1538899	1539288	putative ba
		STY1608	1547496	1547846	hypothetica
STM0339	40.59	STY2362	2194958	2195056	hypothetica
STM3789	20.12	STY2880	2760475	2760663	hypothetica
		STY3068	2929304	2930368	hypothetica
STM0988	12.86	STY0301	314619	315044	hypothetica
STM2141	1.49	STY0347	353209	355896	tsaC outer mem
STM4551	5.98	STY1015	1011496	1012560	putative ba
STM3042	21.17	STY3763	3625958	3627064	alanine rac
STM0322	16.75	STY4107	3968090	3968452	yibL conserved
STM0665	43.65	aSTY4338			
STM0786	4.7	STY4530	4418728	4420722	topB topoisomer
		STY4564	4445185	4445457	hypothetica
STM0376	13.43	STY4582	4458746	4459150	possible ex
STM3079	10.84	STY4706	4565301	4565678	yjeN conserved
		STY4586	4463285	4464205	hypothetica
STM1749	8.14	STY4162	4021016	4022647	yhjW putative m
STM2068	6.68	STY4415	4281562	4283040	putative m
STM0547	13	STY4540	4425115	4425534	pilM putative ex
STM2633	9.26	STY4755	4612132	4613271	putative ex

CT18_GEN STRAND	BEST_HIT.%ID	2ND_BEST.%ID	BEST_HIT.%ID	2ND_BEST
ATGGCAG -	STY2176	99 STY3943	64.706 STY2176	97.1 STY3943
ATGTCAT -	STY3349	100 STY4594	65.347 STY3349	99.4 STY0190
ATGACCG -	STY2224	100 STY0753	61.765 STY2224	99.6 STY0753
ATGGATA +	STY0101	100 STY0536	88 STY0101	98.4 STY0536
ATGCGTA +	STY0163	100 STY2752	63 STY0163	98.5 STY2752
ATGAGTG +	STY0148	100 STY2478	61.607 STY0148	99 STY2478
ATGAACA +	STY0183	100 STY0702	75 STY0183	99.3 STY0702
ATGACGA -	STY0208	100 STY1226	62.136 STY0208	93 STY1226
ATGGCTA -	STY0238	100 STY2553	62 STY0238	98.9 STY2553
ATGATTA -	STY0274	100 STY0866	72 STY0274	96.9 STY0559
GTGCAA +	STY1531	100 STY4048	63.366 STY1531	81.86 STY4048
ATGAATA +	STY0723	100 STY1242	74 STY0723	99.1 STY1242
ATGAAAA +	STY0751	100	STY0751	99.5
ATGCTAA +	STY4796	100 STY4023	78 STY4796	98.2 STY4023
ATGAGCG -	STY2237	100 STY0629	63.366 STY2237	98.6 STY4473
ATGGAAT -	STY2206	100 STY4598	70.588 STY2206	98.6 HCM1.252
ATGACAC -	STY1010	100 STY4048	59.804 STY1010	99.4 STY4048
ATGGATT -	STY3938	100 STY3553	62.376 STY3938	99.3 STY3553
ATGCAAC +	STY3911	100 STY2180	61.165 STY3911	99.5 STY2180
ATGGGCA +	STY0059	100 STY4845	46 STY0059	96.91 STY4845
ATGAAAT -	STY0113	100 STY1429	61 STY0113	62.02 STY1429
ATGCAGA +	STY3514	100 STY0573	74.286 STY3514	98.7 STY0573
ATGACGG -	STY3550	100 STY1226	76 STY3550	99.4 STY1226
ATGCAAG -	STY1130	100 STY3983	61.386 STY1130	98.1 STY4816
ATGGGG +	STY1167	100 STY4405	60.396 STY1167	98.6 STY4405
ATGAAAT +	STY1206	100 STY3747	63.725 STY1206	99.4 STY0176
ATGCTAA -	STY4286	100 STY3993	76 STY4286	98.5 STY0289
	STY4724	53	STY4724	5.85
ATGGCAA +	STY4240	100 STY3779	66 STY4240	99.5 STY0793
	STY4155	59	STY4155	16.23
ATGTTGA -	STY4281	100 STY1011	62.264 STY4281	98.7 STY1078
ATGAATG +	STY4276	100 STY4282	76 STY4276	98.86 STY4282
ATGATGT -	STY4238	100 STY2073	86 STY4238	98.5 STY3149
GTGTTTC +	STY4919	100	STY4919	98.3
TTGATGA +	STY4628	98 STY3674	95 STY4628	82.29 STY3674
ATGTCAT +	STY4255	100 STY4424	60.194 STY4255	98.9 STY4424
ATGCTGC +	STY4900	100 STY3155	62.376 STY4900	99.6 STY2495
ATGCAGC +	STY4935	100 STY2344	71 STY4935	98.3 STY2344
ATGAGTT +	STY4644	100 STY3660	69 STY4644	99.5 STY3660
	STY4742	65.686 STY0308	63.303 STY4121	31.45 STY4742

ATGTATG +	STY2893	100	STY4816	60.784	STY2893	96.02	STY0154
ATGCCGC +	STY3766	100	STY3474	64.762	STY3766	98.4	STY3474
ATGCAAC +	STY2980	100	STY2950	60.396	STY2980	99.4	STY2950
ATGCGCA -	STY3052	100	STY0746	60.952	STY3052	99.2	STY0746
ATGCAGT +	STY0915	100	STY3095	63.551	STY0915	96.92	STY3095
	STY2981	60	STY2304	59.434	STY2304	27.56	STY0796
ATGTTCAI -	STY2727	100	STY2401	67.961	STY2727	99	STY3448
	HCM2.012	62.264			HCM2.012	10.4	
	STY2717	100	STY3511	82	STY2717	53.5	STY3511
	STY0951	73	STY3127	61.386	STY0951	19.01	STY3127
ATGAAGA +	STY0984	100	STY1185	70	STY0984	99.1	STY1185
ATGGCAA -	STY3793	100	STY4647	64	STY3793	99.4	STY4250
ATGAACG +	STY3754	100	STY3198	61.165	STY3754	98.6	STY3198
ATGCGTT +	STY4511	100	STY4846	64.356	STY4511	99.2	STY4846
ATGACCG +	STY0910	100	STY1262	65.686	STY0910	99.03	STY1262
	STY3624	64.356	STY3638	62.376	STY0699	6.22	STY3624
ATGCATA -	STY2768	100	STY0781	63	STY2768	98.4	STY3758
ATGAAGC -	STY2799	100			STY2799	94.47	
GTGAGCA +	STY0960	100	STY2160	58.654	STY0960	99.2	STY2160
ATGAATA +	STY2821	100	STY2655	64.356	STY2821	97.99	STY2655
ATGCAGC -	STY2200	100	HCM1.187	76	STY2200	99.3	HCM1.187
ATGAACA +	STY2495	100	STY4901	59	STY2495	99.1	STY4901
ATGGCGC -	STY4870	100	STY3721	60.377	STY4870	98.5	STY3721
ATGTGCC +	STY1142	100	STY2734	85	STY1142	98.8	STY2734
ATGGTGC -	STY2576	100	STY0723	54.369	STY2576	98.9	STY0723
GTGAATT -	STY2164	100	STY2474	72	STY2164	100	STY3039
	STY3084	67	STY0962	65	STY3084	18.35	STY0962
ATGTCGC -	STY1204	100	STY3344	72.381	STY1204	99	STY3344
ATGGTTG +	STY1755	100	STY1791	72	STY1755	98.1	STY1791
ATGCTAC +	STY4732	100	STY3366	69	STY4732	98.5	STY3366
ATGAGTC +	STY2984	100	STY0938	65.094	STY2984	98.3	STY3498
ATGAAAC +	STY1671	100	STY0631	60	STY1671	99.2	STY3523
ATGCAAA -	STY2195	100	STY3319	60.784	STY2195	98.9	STY3319
ATGACCA -	STY2277	100	STY1743	64	STY2277	98.7	STY1743
	STY2518	100	STY2523	100	STY2523	99	STY2518
ATGAGTA -	STY2558	100	STY0122	52.941	STY2558	99.3	STY0122
GTGAGAC +	STY4779	100	STY2554	63.303	STY4779	99.7	STY2634
	STY4821	57.547			STY4821	42.21	
ATGATAA -	STY4861	100	STY2702	48.039	STY4861	96.3	STY2702
GTGAAAA -	STY2601	100	STY3218	66	STY2601	90.52	STY4156
ATGCTCT -	STY1863	100	STY0507	66.337	STY1863	99.9	STY0507
ATGCGAA -	STY1589	100			STY1589	99	
GTGTCTG -	STY0361	100			STY0361	99	
ATGAAAG +	STY0186	100	HCM1.169	62.963	STY0186	99.2	STY3044
ATGCAGC -	STY0236	100	STY2179	63.303	STY0236	98.8	STY2179
ATGGCTG +	STY0150	100	HCM1.230	62.963	STY0150	99.1	HCM1.230
ATGTCTC -	STY1811	100	STY4328	82	STY1811	98.4	STY4328
ATGAAAT -	STY1772	100	STY3461	62.617	STY1772	99.2	STY3461
	STY0085	73.267			STY0085	55.99	
ATGCAAC -	STY2375	100	STY4210	62	STY2375	98.5	STY1377
TTGATGA +	STY1651	100	STY3355	64.706	STY1651	98.6	STY3813

ATGTTAA(-	STY1702	100		STY1702	97.5		
ATGTCAT(+	STY3915	100	STY2548	60.952	STY3915	98	STY2548
ATGAGCT(+	STY0304	100	STY0208	61.765	STY0304	99.3	STY0208
GTGATTA(+	STY0242	100	STY1282	58.416	STY0242	99.1	STY3349
ATGTCAA(+	STY2190	100	STY1711	61.321	STY2190	98.9	STY1711
ATGGCTG(-	STY2642	100	STY2282	66	STY2642	98.6	STY1258
ATGTTAT(-	STY2547	100	STY2548	67	STY2547	97.6	STY2548
ATGTCCA(-	STY1761	100	STY4703	63.725	STY1761	98.86	STY4703
ATGATTC(-	STY2992	100	STY1711	56.075	STY2992	99.5	STY1711
ATGCTTG(-	STY2680	100	STY1263	64.078	STY2680	97.2	STY2679
ATGAACG(+	STY0549	100	STY4168	63.636	STY0549	99.4	STY1517
ATGAAAA(-	STY3878	100	STY4157	64	STY3878	99.8	STY2841
TTGTTAA(-	STY4708	100	STY4868	59.804	STY4708	98.9	STY4868
	STY3132	65	STY2291	64.356	STY4421	15.89	STY2291
ATGAAGC(-	STY3362	100	STY1655	75	STY3362	99.5	STY1655
ATGATAG(+	STY4256	100	STY4255	87	STY4256	97.6	STY4424
TTGCATA(+	STY3470	100	STY2093	66.667	STY3470	96.3	STY2093
ATGATTG(+	STY2579	100	STY3311	63.725	STY2579	99.2	STY3311
GTGGATG(+	STY0560	100	STY4172	66.667	STY0560	99.8	STY0273
ATGCCCC(-	STY4752	100	STY0958	64	STY4752	98.6	STY0958
ATGAGGA(-	STY4819	100	STY4268	67	STY4819	98.9	STY4268
ATGGGGC(+	STY2913	100	STY1481	85	STY2913	98.8	STY1481
ATGGATG(-	STY4867	100	STY2168	52.941	STY4867	99.2	STY2168
ATGAAAC(-	STY4943	100	STY0592	63.462	STY4943	98.4	STY0592
ATGATAA(+	STY4142	99			STY4142	98.3	

ATGAGCA(-	STY3760	100	STY2413	62.745	STY3760	99.1	STY2413
ATGATGA(+	STY1954	100	STY0026	76.699	STY1954	98.9	STY0026
ATGATTC(+	STY0595	100	STY0031	57.692	STY0595	98.3	STY0031
ATGCTAA(-	STY3851	100	STY3568	58.491	STY3851	99	STY3568
GTGTTAC(-	STY0679	100	STY4405	59	STY0679	98.2	STY4405
GTGTCAG(-	STY4390	100	STY4869	58.654	STY4390	99.5	STY4869
ATGAAAC(+	STY1880a	99	STY0388	92	STY1880a	97	STY1408
GTGATGC(-	STY3747	100	STY1095	74	STY3747	98.3	STY1095
ATGAAAC(-	STY0728	100	STY4084	62.617	STY0728	99.4	STY4084
ATGATAA(+	STY0775	100	STY0578	61.538	STY0775	96.3	STY4611
ATGGCTC(+	STY0977	100	STY4787	62.136	STY0977	98.9	STY4787
ATGCTGA(+	STY0627	99	STY0996	54.455	STY0627	97.4	STY0996
ATGAGCC(-	STY4321	100	STY1933	63.462	STY4321	96	STY1933
ATGTATC(+	STY3722	97	STY2786	64.078	STY3722	91.5	STY2786
ATGAAAC(+	STY4248	100	STY4244	86	STY4248	98.9	STY4244
	STY2895	97	STY0663	83	STY2895	55.86	STY2762
ATGTTGA(+	STY1441	100			STY1441	99	
ATGAGCA(-	STY1211	100	STY0474	61.165	STY1211	99.3	STY0474
ATGCAGC(+	STY3556	100	STY1957	62.617	STY3556	99.5	STY1957
ATGGTTT(-	STY0040	100	STY3765	77	STY0040	99.5	STY3765
ATGCTCC(+	STY0096	99	STY4871	65.385	STY0096	97.9	STY3606
TTGCTCC(-	STY1873	100	STY2632	56.19	STY1873	79.82	STY2632
ATGAAAT(+	STY3857	100			STY3857	97	
ATGACTA(-	STY0064	100	STY3532	100	STY0064	95	STY3532
ATGCGTA(+	STY0026	100	STY4941	78	STY0026	98.4	STY0593

ATGCGAT +	STY2248	100	STY1349	89	STY2248	98.5	STY0471
ATGTCGA -	STY4499	100	STY1654	92	STY4499	99	STY1654
GTGGCAC -	STY2138	100	STY3132	75.728	STY2138	87.97	STY3132
ATGCCAA +	STY2743	100	STY3641	67.327	STY2743	99.2	STY3641
ATGGCTG -	STY4461	100	STY3578	59.223	STY4461	99.5	STY3578
ATGCGTT +	STY2858	100	STY2687	49.505	STY2858	98.8	STY2687
ATGAAGG +	STY0071	100	STY0669	63.366	STY0071	99.3	STY0669
ATGAAAA -	STY3981	100	STY3980	72	STY3981	98.9	STY4874
ATGGTGG -	STY3589	100	STY3528	73	STY3589	99.2	STY3528
ATGCCTC +	STY3605	100	STY2995	52.475	STY3605	100	STY2995
ATGATCG -	STY2295	100	STY2295	57.798	STY2295	98	STY2295
ATGGATA +	STY2625	100	STY4469	64.706	STY2625	98.49	STY4469
ATGGCAT +	STY1946	100	STY3922	60.396	STY1946	100	STY3922
ATGACAA -	STY1315	100			STY1315	99.5	
ATGTCAA -	STY3122	100	STY3979	76.238	STY3122	98.6	STY3979
ATGCAGA -	STY3039	100	STY0142	65.714	STY3039	98.8	STY0237
ATGAAAA +	STY3773	100	STY1576	54	STY3773	99.1	STY1576
ATGGATA -	STY0620	100	STY3238	58.095	STY0620	97.9	STY3238
ATGTCTG +	STY3779	100	STY4240	68	STY3779	99.2	STY0491
ATGTCCC +	STY2258	99	STY1665	63	STY2258	93.04	STY1665
ATGCGGC -	STY3602	100	STY0205	52	STY3602	99.7	STY0205
ATGAGTT -	STY3627	100	STY3932	64.078	STY3627	98.5	STY3932
TTGGTGA -	STY1858	100			STY1858	98.9	
GTGAAAA -	STY3175	100	STY3087	67.647	STY3175	97	STY3087
ATGGCGC -	STY3102	100			STY3102	98.2	
ATGAAAT(-	STY0469	100	STY2701	63.462	STY0469	99.3	STY3642
GTGTTTG -	STY3585	100	STY0354	63.366	STY3585	99.6	STY2458
ATGACGG +	STY0564	100	STY4404	65.686	STY0564	95.17	STY4404
	STY4016	72	STY1961	67.961	STY1961	38.84	STY4016
ATGACAC +	STY0612	100	STY4206	63.725	STY0612	98.3	HCM1.231
ATGAATA +	STY0644	100	STY4890	90	STY0644	98.8	STY4890
ATGTTTG -	STY1450	100	STY3443	71.154	STY1450	98.8	STY4000
TTGATTG(-	STY1508	100	STY2226	59	STY1508	40.1	STY2226
ATGAAAA +	STY1466	100	STY2926	71	STY1466	99.3	STY2674
ATGTTAT(-	STY1438	100	STY2162	58.824	STY1438	97.8	STY2162
ATGGCTT -	STY1436	100	STY2159	72	STY1436	98.4	STY0866
ATGATAG -	STY2102	100	STY4728	68.932	STY2102	98.2	STY4728
ATGCATC -	STY0536	100	STY0101	90	STY0536	99	STY0101
ATGCTAA +	STY0676	100			STY0676	98.6	
ATGAGCA +	STY4016	100	STY1961	67	STY4016	99.55	STY1961
ATGAGAA +	STY0647	100	STY1807	64.356	STY0647	98.4	STY1807
ATGATGC +	STY0640	100	STY0081	58.416	STY0640	98.6	STY0081
ATGAGCA +	STY4645	100	STY3658	73	STY4645	96.3	STY3658
ATGGCAC +	STY1301	100			STY1301	99.5	
ATGACAA -	STY1470	100			STY1470	98.7	
ATGACTG +	STY1428	100	STY0214	71	STY1428	99	STY0214
GTGCGTA +	STY1396	100	STY2319	63.725	STY1396	94.8	HCM1.247
GTGTGGC +	STY4746	100	STY1914	87	STY4746	99	STY1914
ATGCGTC -	STY2849	100	STY0943	74	STY2849	97.1	STY0294
ATGGGTC +	STY3169	100	STY2269	73	STY3169	96.8	STY2269
ATGTTTA +	STY0413	100	STY0264	61.905	STY0413	98.2	STY0264
	STY0276	61.905	STY4266	56.311	STY0276	12.39	STY4266

ATGTTAG +	STY0502	100	STY0055	61.386	STY0502	98.7	STY0349
ATGAATT +	STY3249	100			STY3249	99.8	
ATGAACC -	STY4104	100			STY4104	98.2	
ATGAGTG +	STY3971	100	STY1329	65.049	STY3971	98.4	STY0149
ATGACAA -	STY3131	100			STY3131	98.5	
ATGAAAA -	STY3176	100	STY3086	69	STY3176	97.8	STY3086
ATGGTAC +	STY0440	100	STY0653	70	STY0440	98.7	STY0653
ATGATAA +	STY4192	100	STY2336	64	STY4192	97.9	STY2336
GTGGGAC +	STY4151	100			STY4151	99.6	
ATGATTA +	STY4114	100			STY4114	98.2	
ATGGATA +	STY4065	100	STY4090	62.745	STY4065	99.5	STY4090
ATGGCCA +	STY4014	100	STY1959	62.376	STY4014	99.6	STY1959
ATGATGA -	STY0745	100	STY2803	61.321	STY0745	98.6	STY2803
GTGAGCT +	STY4915	100	STY1241	65.385	STY4915	97.7	STY1241
ATGGATA +	STY2939	100	STY0927	60.784	STY2939	99.6	STY0927
ATGAAAG +	STY2343	100	STY0744	69	STY2343	98.1	STY0744
ATGATTG +	STY2452	100	STY4155	62.264	STY2452	99.2	STY4155
ATGAAAG -	STY2310	100			STY2310	97.5	
ATGACGA -	STY2395	100	STY0701	62.5	STY2395	99.3	STY1571
ATGAGCA +	STY2431	100	STY4925	76	STY2431	99.7	STY4925
	HCM1.252	62.136			HCM1.252	18.1	
ATGACCA -	STY2407	100	STY1134	64	STY2407	98.6	STY1134
GTGGCGC -	STY0929	100	STY0808	60.784	STY0929	98.8	STY0808
ATGCAGC -	STY4160	100			STY4160	98.5	
ATGAAAT -	STY4264	100	STY1739	73	STY4264	99.1	STY1739
ATGATTT -	STY4129	100	STY1047	62.037	STY4129	94.4	STY2866
ATGCGCA -	STY4231	100	STY3033	64	STY4231	98.6	STY3033
ATGGCAA -	STY3520	100	STY1904	74	STY3520	98.9	STY1904
ATGTTTG -	STY3418	100	STY4470	61.765	STY3418	98.6	STY4470
GTGATGC -	STY3312	100	STY1897	65.094	STY3312	98.6	STY1656
GTGAATC -	STY2974	100	STY2270	74.757	STY2974	99.5	STY2270
ATGCCAA +	STY3382	100	STY1592	58.416	STY3382	99.3	STY1592
ATGGAAG -	STY1719	100	STY2698	62.857	STY1719	97.3	STY2572
ATGAAAT +	STY1151	100	STY1010	67	STY1151	98.2	STY0913
	STY3536	60.784	STY4406	58	STY3536	50.71	STY4406
ATGGGTC +	STY0876	100	STY3457	49	STY0876	98.7	STY3457
ATGGCGA -	STY1733	100	STY3711	87	STY1733	99.7	STY3711
ATGGCTG -	STY0804	100	STY3510	63.107	STY0804	99.3	STY3510
ATGAGTA -	STY0851	100	STY4224	66.337	STY0851	98.7	STY4224
ATGCGTC +	STY0894	100	STY1386	63.208	STY0894	71.23	STY1386
ATGAGTA +	STY3495	100	STY0887	68.932	STY3495	99.5	STY0887
ATGGCAC +	STY2181	100	STY2442	62.037	STY2181	100	STY0891
ATGGCAG +	STY3311	100	STY2579	63.366	STY3311	98.7	STY2579
	STY3794	59.615			STY3794	10.12	
	STY0086	60.784			STY0086	9.26	
	STY2911	61.468	STY3298	61	STY2911	28.43	STY4116
ATGGAAC +	STY4780	100			STY4780	99.2	
ATGAACG -	STY0475	100			STY0475	98.37	
	STY1513	62.136	STY2297	60.577	STY2297	41.56	STY1911
ATGTTCG +	STY0645	100	STY4889	77	STY0645	98.5	STY4889
	STY0569	100	STY4669	68	STY0569	90.59	STY4669
GTGCCTA +	STY0603	98	STY4035	90	STY0603	71.22	STY4035

ATGACCA +	STY0624	100	STY4463	67.327	STY0624	99.1	STY1541
ATGAAAC -	STY0625	100			STY0625	99.2	
ATGAGTA +	STY1914	100	STY1525	80	STY1914	98.8	STY1525
	STY2500	61.905	STY0744	60.55	STY2500	33.82	STY0744
	STY0981	57	STY0919	55.882	STY0981	24.07	STY0919
ATGGGAC +	STY2508	100	STY0932	59	STY2508	99.6	STY0932
ATGAATA -	STY3323	100	STY2509	32	STY3323	99.2	STY2509
ATGAAAG +	STY0918	100	STY3067	56.863	STY0918	99.7	STY3067
ATGTATA -	STY0662	100	STY0931	75	STY0662	99.5	STY1416
ATGTCAG -	STY4005	100			STY4005	99.2	
ATGAAAG +	STY4087	100	STY1368	63.725	STY4087	98.3	STY1493
ATGATTA(+	STY4004	100	STY4114	71.287	STY4004	99.3	STY4114
ATGCGTA +	STY3970	100	STY3969	64.356	STY3970	98.6	STY3969
GTGATGA -	STY3968	100	STY0190	57.143	STY3968	99.1	STY0190
	HCM2.012 ₁	60.377			HCM2.012 ₂	27.73	
	STY1156	71	STY1548	60	STY1156	65.74	STY1548
GCGCTGC -	STY3800	99	STY3807	80	STY3800	98.5	STY3807
ATGGTTG -	STY4878	100	STY4712	53.465	STY4878	98.6	STY4712
	STY2610	49.505	STY1078	32	STY2610	42.76	STY1078
ATGTTCG +	STY1657a	99	STY1263	65.094	STY1657a	97.03	STY1263
ATGAAAA -	STY0860	100	STY3542	67	STY0860	100	STY3542
ATGGCAC +	STY0700	100	STY0736	61.386	STY0700	99.4	STY2548
ATGAAGC +	STY2142	100	STY2316	47.573	STY2142	99.1	STY2316
ATGCAGA +	STY2580	100			STY2580	98.59	
	HCM1.168	61	STY1643	60.784	STY1643	39.47	STY1366
	STY0445	62.264	HCM2.005 ₁	58.491	STY0445	16.79	HCM2.005 ₂
	HCM1.93	53.704			HCM1.93	17.64	
	STY1260	63.107	STY3306	60	STY2603	20.84	STY3306
	HCM1.142 ₁	63	STY2891	56.19	HCM1.142 ₂	24.39	STY2891
	STY4371	63.303	STY2329	47.17	STY4371	43.55	STY2329
	STY3353	67			STY3353	56.7	
	STY1948	63.725	STY2248	57.426	STY2248	2.69	STY1948
	STY2248	71	STY4200	63.725	STY2248	58.27	STY4200
ATGCTAA -	STY2523	100	STY4757	64.815	STY2523	99	STY0637
	STY2584	100	STY2585	77	STY2584	99.4	STY2585
	STY2657	100	STY3268	72.277	STY2657	98.9	STY3268
	STY2711	100	STY3236	87	STY2711	98.8	STY3236
	STY2719	100	STY0519	88	STY2719	99	STY0519
	STY0076	100	STY0464	65.347	STY0076	100	STY2554
ATGAAAC +	STY0307	100			STY0307	100	
ATGACTG +	STY0349	100	STY0502	56	STY0349	100	STY0502
ATGAGCA +	STY1017	100			STY1017	100	
ATGTTTA(+	STY1044	100	STYrarB	61.165	STY1044	100	STYrarB
ATGGAAT +	STY1060	100	STY2027	90	STY1060	100	STY2027
	STY0328	100	STY0323	84	STY0328	100	STY0323
GTGTCAA +	STY0793	100	STY0492	65.094	STY0793	100	STY3777
	STY1032	100	STY1200	66.337	STY1032	100	STY1200
ATGTCCA +	STY2006	100			STY2006	100	
ATGCCGC -	STY2029	100	STY1058	86	STY2029	100	STY1058
ATGCTGT -	STY3191	100	HCM1.90c	41	STY3191	100	HCM1.90c
ATGGATT. +	STY0477	100	STY0476	88	STY0477	100	STY0480

ATGGAAT +	STY1026	100	STY4171	69.307	STY1026	100	STY4171
ATGGCAC +	STY1048	100	STY1049	100	STY1048	100	STY2039
ATGTCAC +	STY1064	100	STY2023	74	STY1064	100	STY2023
GTGAAAA +	STY3089	100	STY3088	63	STY3089	100	STY3088
GTGATTG +	STY3288	100	STY1648	59.615	STY3288	100	STY1648
ATGCGAA +	STY1028	100	STY1359	90.099	STY1028	100	STY1359
ATGAAAT,+	STY1050	100	STY2037	100	STY1050	100	STY2037
ATGAGTT +	STY1066	100	STY2021	78	STY1066	100	STY2021
TTGAGAA -	STY2042	100	STY4209	62.745	STY2042	100	STY4209
ATGAATA,+	STY2058	100	STY2350	59.223	STY2058	100	STY2350
ATGCTAG -	STY3659	100	HCM1.92	57.692	STY3659	100	HCM1.92
ATGAAGA +	STY4838	100	STY0593	68	STY4838	100	STY0336
	STY4615	100	STY3687	88	STY4615	100	STY3687
ATGAGCC +	STY4522	100	STY4442	78.431	STY4522	100	STY4442
ATGGAAC -	STY4669	100	STY0569	70.874	STY4669	100	STY0569
ATGATTG -	STY4822	100			STY4822	100	
ATGGGTC +	STY4842	100	STY1481	56	STY4842	100	STY1014
ATGCAAA +	STY4570	100	STY0473	64.356	STY4570	100	STY0473
GTGGGAA +	STY4587	100	STY4577	61.165	STY4587	100	STY4577
GTGACAA +	STY4609	100	STY1987	80	STY4609	100	STY1987
ATGGATA +	STY4649	100	STY4856	87	STY4649	100	STY4856
ATGGAAA +	STY4666	100			STY4666	100	
TTGACTG +	STY4571	100	STY4417	58.654	STY4571	100	STY4417
ATGAAAC +	STY3967	100	STY4318	63.81	STY3967	94.85	STY4318
ATGGCTA +	STY3947	100	STY0817	68	STY3947	92.24	STY0817
ATGAGTA +	STY3929	100	STY0467	72	STY3929	99	STY2581
ATGATTA(+	STY3992	100	STY2117	62.376	STY3992	98.3	STY2155
ATGAAGC -	STY3481	100	STY3351	52.475	STY3481	100	STY3351
ATGTCGT -	STY3518	100	STY1166	79	STY1166	65.54	STY3518
ATGCTTG +	STY3497	100	STY0156	64.151	STY3497	92.77	STY1206
TTGACTT,-	STY3536	100	STY2563	63.725	STY3536	99.3	STY2563
	STY0521	65.741	STY1082	63	STY0521	47.84	STY0370
ATGAAAA +	STY0702	100	STY0183	76	STY0702	99	STY0183
ATGTATG -	STY0721	100	STY2732	64.706	STY0721	99.1	STY2117
	STY0746	100	STY0544	73	STY0746	57.77	STY4235
ATGATGT -	STY1543	100	STY2198	68.868	STY1543	99.1	STY2198
	STY3920	75	STY0593	71.287	STY3920	23.93	STY0336
GTGGTTA -	STY3939	100	STY4816	63.366	STY3939	99.7	STY0559
	STY3924	100	STY3361	61.386	STY3924	62.42	STY3361
ATGCGAT -	STY0011	100	STY2194	53.922	STY0011	98.8	STY2194
ATGAAAA -	STY1878	100	STY0380	60	STY1878	98	STY0380
ATGAGCG -	STY2833	100	STY2760	62.037	STY2833	99.7	STY4443
ATGAAAA -	STY3892	100	STY4264	62.136	STY3892	98.7	STY1739
ATGTGTG +	STY0078	100	STY3083	60.396	STY0078	98.51	STY3083
ATGAAAG +	STY0142	100	STY1965	79	STY0142	99.3	STY1965
ATGACGT -	STY0180	100	STY0180	52	STY0180	97.3	STY0180
ATGAAAG +	STY3566	100			STY3566	99.5	
ATGATAA +	STY1573	100	STY2393	77	STY1573	99	STY2393
ATGCTGC +	STY4349	100			STY4349	99.3	
ATGAAAT(+	STY1240	100	STY0528	64.356	STY1240	98.7	STY0321
ATGGAAT -	STY1269	100	STY4390	90	STY1269	97.4	STY4390
ATGGGTA -	STY1846	100	STY1925	69	STY1846	98.8	STY1925

ATGAGTT -	STY2314	100	STY2341	59.615	STY2314	98.8	STY2341
ATGAAGC +	STY4308	100	STY4307	85	STY4308	98.6	STY4307
ATGTTCA -	STY1275	100	STY0173	58.824	STY1275	99.1	STY0173
ATGTTTC -	STY1842	99			STY1842	98.4	
ATGATAA -	STY2317	100	STY2293	72	STY2317	98.5	STY2293
TTGTTCT +	STY2347	100	STY0903	63.303	STY2347	96.14	STY0903
	STY4008	54.902			STY4008	2.7	
ATGACTA +	STY1825	100	STY2805	66.038	STY1825	99.6	STY3228
ATGAGTA +	STY2336	100	STY3568	67.308	STY2336	99.1	STY2194
ATGAATA +	STY0008	100	STY0837	70.297	STY0008	92.7	STY0837
GTGAAAA +	STY0316	100	STY0082	60.784	STY0316	99.2	STY2738
ATGGGCA +	STY0359	100			STY0359	98.4	
	STY4320	64.423			STY4320	9.73	
	STY3076	66	STY0882	60.748	STY0882	13.6	STY3076
TTGCATA +	STY4479	100	STY4480	99	STY4479	76.42	STY2475
	STY3066	69.307	STY2836	61.765	STY3066	33.87	STY2836
ATGTTCC +	STY2645	100			STY2645	98.8	
ATGAAGA -	STY2685	100	STY0958	62.037	STY2685	98.9	STY0958
	STY4369	60.194	STY0658	49	STY4369	16.81	STY0658
	STY2045	70	STY1716	59.091	STY2045	49.82	STY1716
	STY3124	63.551			STY3124	10.52	
ATGAAAA -	STY2775	100	STY4503	83	STY2775	97	STY4503
ATGAATT -	STY2810	100	STY1222	64.486	STY2810	98.8	STY4183
ATGAGAA +	STY3848	100	STY2807	47	STY3848	99.3	STY2807
	STY0606	81	STY2627b	74	STY0606	71.26	STY2528
ATGCACG +	STY2976	100	STY3315	65	STY2976	100	STY3315
ATGGATC -	STY3060	100	STY1428	70	STY3060	99.1	STY1428
	STY1011	81	STY4776	60.194	STY1011	62.9	STY4776
ATGAACC +	STY2710	100	STY0007	84	STY2710	98.6	STY0007
ATGGGCA -	STY0956	100	STY0655	66.019	STY0956	99.1	STY0655
ATGAGTT +	STY0990	100	STY3570	63.725	STY0990	99.5	STY3570
GTGATTT +	STY0975	100	STY2205	55	STY0975	98.7	STY2205
	HCM2.005	58.095	STY3429	55.34	HCM2.005	21.8	STY3429
TTGCGCC +	STY4764	100	STY2004	62.745	STY4764	100	STY3481
ATGTTGA -	STY2512	100	STY2432	79	STY2512	97.6	STY3995
ATGAAAA -	STY2573	100	STY0667	63.81	STY2573	98.5	STY3227
GTGCTTA -	STY2132	100			STY2132	99	
GTGGCG -	STY2595	100	STY2088	64.486	STY2595	99.1	STY2664
ATGGCGT +	STY1259	100	STY0840	63.366	STY1259	99.4	STY0840
ATGTTTA(-	STY1696	100			STY1696	98.1	
ATGCGGC -	STY1277	100	STY4410	58.654	STY1277	89.7	STY0207
ATGAACA +	STY0030	100	STY3574	60.396	STY0030	97.8	STY4393
ATGCTCT +	STY2193	100	STY4712	51.961	STY2193	99.3	STY4712
ATGGCCA +	STY1786	100	STY1454	56.863	STY1786	99.3	STY1454
ATGTCAC +	STY4725	100	STY3461	60.377	STY4725	99.2	STY1350
ATGATTG +	STY4759	100	STY4301	65.714	STY4759	98.4	STY3479
	STY4269	69.307	STY0571	67	STY4269	47.91	STY0734
ATGAAAG +	STY4858	100	STY4585	86	STY4858	99.2	STY4585
ATGACGC +	STY2510	100	STY3944	61	STY2510	98.9	STY3547
	STY4726	66.667	STY3570	59.406	STY3570	5.82	STY0793
ATGTTTA -	STY2572	100	STY2799	65.714	STY2572	99.1	STY4739

ATGATAA` -	STY2133	100	STY4333	91	STY2133	99.7	STY4352
ATGGCTC -	STY4607	100	STY2888	94	STY4607	99.5	STY2888
ATGAACG -	STY2703	100	STY4655	63	STY2703	98	STY0145
ATGGCAG -	STY2847	100	STY0727	65.094	STY2847	99.5	STY4194
ATGACCA +	STY0393	100	STY0787	80	STY0393	98.5	STY0787
ATGAGTA -	STY2220	100	STY1226	62.857	STY2220	97.6	STY1226
ATGACAG -	STY4416	100	STY0002	65.385	STY4416	99.6	STY3768
TTGATCC -	STY2944	100	STY4620	63.107	STY2944	97.7	STY4620
	STY0087	73	STY3021	61	STY0087	63.5	STY3021
ATGCGCC +	STY2187	100	STY1701	72	STY2187	99.2	STY1701
ATGGAAA -	STY2995	100			STY2995	99.2	
ATGGCTA -	STY2122	100	STY3019	75	STY2122	99	STY3019
GTGTCTC -	STY2303	100			STY2303	97	
ATGAAGA -	STY3897	100	STY2591	62.5	STY3897	98.8	STY2591
ATGGCTG +	STY0240	100	STY0484	62.264	STY0240	91.38	STY0484
ATGAAAA` +	STY0417	100	STY3855	62	STY0417	99.4	STY3855
ATGCTGA +	STY4410	100	STY2459	69	STY4410	99.2	STY2459
ATGAAAA, -	STY0084	100	STY4048	61.165	STY0084	98.7	STY4295
ATGAATA, +	STY1804	100	STY1219	61.905	STY1804	97.7	STY1219
	STY0746	65.714	STY0721	55.34	STY0746	4.68	STY0721
ATGATTG. +	STY1658	100	STY2964	61.905	STY1658	99.1	STY2964
ATGAGCA +	STY1025	100	STY2785	60.185	STY1025	66.64	STY0146
TTGAGCC -	STY4812	100	STY1694	65.686	STY4812	99.4	STY3198
ATGGCAG +	STY0588	100			STY0588	98	
	STY3732	60	STY3379	49	STY3732	18.18	STY3379
ATGAACA -	STY4916	100	STY0968	64.706	STY4916	99.2	STY0631
ATGTCAG +	STY4094	100	STY4429	56.604	STY4094	99.1	STY4429
ATGAATG +	STY4287	100	STY4168	62.136	STY4287	98.4	STY1914
	STY1911	64.706	STY2295	61.165	STY2295	10.06	STY1911
ATGACAA` -	STY1899	100	STY4476	59.804	STY1899	99.7	STY4476
ATGCAAG -	STY0561	100	STY1549	60.909	STY0561	99.1	STY1549
	STY4721	41			STY4721	10.35	
	STY0084	63.107	STY3992	60.377	STY4620	17.23	STY0084
ATGATTA(-	STY4758	100			STY4758	98.6	
	STY1115	83	STY3193	50	STY1115	67.42	STY3193
TTGGCTA -	STY2848	100	STY3480	61.321	STY2848	98.9	STY3480
GTGATGC -	STY3385	100	STY4292	67	STY3385	99.2	STY4292
ATGCAGC +	STY4275	100			STY4275	99.2	
ATGCTGT -	STY4056	100	STY1637	62.745	STY4056	98.4	STY0227
ATGGCTA +	STY2794	100	STY1419	67.925	STY2794	98.9	STY4775
ATGTTTA, +	STY1242	100	STY0723	74	STY1242	99	STY0723
TTGACTA, +	STY3880	100	STY2309	61.905	STY3880	99.7	STY2309
ATGAGTA -	STY0870	100	STY0189	54	STY0870	99.8	STY0189
ATGGCTT +	STY0836	100	STY0458	63.208	STY0836	95.81	STY0458
ATGACAC -	STY1699	100			STY1699	97.7	
ATGAAAA, -	STY2691	100	STY1549	65.094	STY2691	98.5	STY4181
ATGCAAA` -	STY3796	100	STY3896	70	STY3796	99.4	STY3896
TTGCAGG -	STY0693	100	STY4552	63	STY0693	99.4	STY4552
ATGACCG -	STY0288	100	STY2112	64.078	STY0288	98.4	STY2112
ATGAGCA +	STY2282	100	STY1948	65.741	STY2282	98.9	STY4133
ATGGTGC -	STY1355	100	STY0219	71.569	STY1355	97.9	STY2934
ATGTTCC +	STY0418	100	STY4904	67.961	STY0418	98.7	STY4904

ATGTCTG -	STY1940	99	STY1771	59.804	STY1940	99.3	STY1771
	STY2345	98			STY2345	72.45	
ATGTTCA(-	STY0715	100	HCM2.002	70	STY0715	99.31	STY1162
ATGTCAT -	STY4488	100			STY4488	99.7	
ATGGCGA -	STY2116	100	STY3954	46.154	STY2116	98.9	STY3954
GTGGAAC +	STY4459	100	STY4458	74	STY4459	98	STY4458
ATGGATT +	STY4078	100	STY4077	61	STY4078	97.2	STY4077
GTGACTA -	STY1987	100	STY4609	80	STY1987	98.1	STY4609
ATGACCG -	STY3718	100			STY3718	97.5	
ATGGCCG +	STY3912	100	STY4562	54.902	STY3912	99.7	STY4562
ATGAAAG -	STY2493	100	STY1649	87	STY2493	99.5	STY1649
ATGAAAT(-	STY0847	100	STY1312	88	STY0847	98.46	STY1312
ATGCATT(+	STY0453	100			STY0453	97.82	
ATGAGTT -	STY3816	100	STY4876	70.297	STY3816	98.2	STY4876
ATGAATA(-	STY2269	100	STY0851	83	STY2269	98.7	STY0851
ATGGGTA +	STY1371	100	STY4779	60.577	STY1371	99.4	STY4779
ATGAGTA -	STY2868	100	STY2421	61.905	STY2868	98.8	STY2421
ATGGCTC +	STY4375	100	STY2153	54.206	STY4375	100	STY2153
ATGCGTT +	STY4071	100	STY2590	63.551	STY4071	98.9	STY2590
GTGAAAA -	STY3573	100	STY2596	62.963	STY3573	99.1	STY2596
ATGAAGA -	STY2829	100	STY4352	63	STY2829	99.2	STY4352
ATGAAAA -	STY3613	100	STY0006	54.808	STY3613	100	STY0006
ATGAATC -	STY3638	100	STY1517	60.784	STY3638	99.1	STY1517
ATGAGTG +	STY2185	100			STY2185	99.3	
ATGACCC -	STY1930	100	STY4443	67.961	STY1930	98.9	STY4443
ATGGCAG -	STY2616	100	STY1069	61.765	STY2616	98.3	STY1069
ATGAAAA -	STY2554	100	STY3665	65.385	STY2554	98.1	STY0063
ATGAAAC +	STY4061	100	STY0646	78.431	STY4061	99.2	STY0646
ATGGCTT -	STY4606	100	STY2887	95	STY4606	97.7	STY2887
ATGGGGA -	STY3013	100	STY2187	71	STY3013	99	STY1701
ATGACCA +	STY3827	100	STY2499	59.804	STY3827	98.2	STY2499
ATGGGTG -	STY3586	100	STY0682	67	STY3586	100	STY0682
ATGAGCC -	STY3351	100	STY2499	76	STY3351	98.3	STY2499
ATGGACC +	STY2650	100	STY4046	56	STY2650	98.5	STY4046
ATGAACG -	STY3656	100	STY3986	74	STY3656	98.9	STY3986
ATGTTAG -	STY0118	100	STY4119	82	STY0118	91.19	STY4119
ATGGCGC -	STY3058	100	STY3059	74	STY3058	89.44	STY3759
ATGAGAT +	STY3046	100	STY2586	67.327	STY3046	99.2	STY2586
ATGCGAT +	STY3870	100	STY0476	79	STY3870	98.5	STY0476
ATGAAGA +	STY0573	100	STY3429	77	STY0573	98.4	STY2730
ATGACAA +	STY0963	100	STY1567	99	STY0963	98.2	STY1567
	STY0793	61.765	STY1959	60.784	STY1959	45.81	STY1136
ATGGCGC -	STY1434	100			STY1434	99.3	
ATGGGTA +	STY1336	100	STY1816	69.903	STY1336	99.2	STY1816
	STY3842	75	STY0958	61.765	STY3842	56.17	STY3513
TTGAATT(-	STY1947	100	STY0997	62	STY1947	99	STY2961
ATGAAAC -	STY1422	100	STY1131	59.615	STY1422	98.6	STY4156
ATGAAAA(+	STY2002	100			STY2002	97.45	
ATGACTA(+	STY1390	100	STY3901	61.765	STY1390	98.3	STY3901
GTGATAG -	STY2103	100	STY4063	70.588	STY2103	98.2	STY4063
ATGTCTT(-	STY0582	100	STY0642	61.682	STY0582	94.9	STY0642
GTGGCTC -	STY0622	100	STY4635	61.386	STY0622	98.1	STY4635

ATGCAAG -	STY1412	100		STY1412	98.5
ATGCCAT +	STY1482	100	STY4796	62 STY1482	94.8 STY4796
TTGAAAG +	STY0376	100	STY2451	67 STY0376	99.5 STY1957
ATGCAAA -	STY1283	100	STY2319	65.049 STY1283	99.2 STY2319
TTGTACG -	STY1458	100	STY0237	64 STY1458	98.9 STY0237
	STY2011	91	STY2077	77 STY2077	67.77 STY2011
GTGTCGA -	STY2106	100	STY2964	64.706 STY2106	97.9 STY2964
ATGGAAA -	STY3977	100	STY1793	58 STY3977	98.4 STY1793
ATGTCAG -	STY3127	100	STY0414	75.248 STY3127	98.9 STY0414
	STY1073	77	STY2013	77 STY1073	30.75 STY2013
	STY4862	63.551	STY1934	54 STY4862	19.69 STY1934
TTGAAAA -	STY3303	100	HCM1.74	60.577 STY3303	81.34 HCM1.74
ATGAGCA +	STY3640	100	STY0855	71 STY3640	99.4 STY2836
ATGCAGC +	STY4137	100	STY4257	69.307 STY4137	98.6 STY4257
GTGTCGC +	STY1226a	100	STY0562	60.185 STY1226a	66.4 STY0562
ATGTCTT(+)	STY3107	100	STY3325	62.136 STY3107	98.4 STY3325
GTGGTAT -	STY2873	100	STY1082	60.377 STY2873	99.2 STY1082
ATGACAC -	STY3209	100	STY2182	65.385 STY3209	96.4 STY0931
ATGGAGT -	STY3259	100	STY4203	72 STY3259	99.6 STY4203
GTGCTGC -	STY3743	100	STY3744	74 STY3743	91.07 STY3744
ATGAAAA -	STY3264	100	STY2546	62.617 STY3264	99.6 STY2546
ATGTCTT -	STY0667	100	STY3340	62.745 STY0667	78.36 STY3340
ATGCCAA +	STY2447	100	STY2446	95 STY2447	71.13 STY4694
ATGACAG +	STY2917	99	STY3429	62.745 STY2917	98.3 STY3429
ATGGCTG -	STY1370	100	STY3711	79 STY1370	97.7 STY3876
ATGACTG +	STY3195	100	STY4742	60.194 STY3195	99.1 STY4742
ATGGAGC +	STY0397	100		STY0397	99.8
ATGAAAA +	STY4148	100	STY1428	87 STY4148	99.8 STY1428
ATGACAG +	STY2437	100	STY2698	66 STY2437	98.9 STY2698
	STY2045	90	STY3321	56.863 STY2045	57.25 STY3321
ATGTACG -	STY2389	100	STY4736	66 STY2389	98.6 STY4736
ATGGAAA +	STY2428	100	STY4405	79 STY2428	99.1 STY4405
ATGAAGA -	STY2318	100		STY2318	98.9
GTGAGTC -	STY2394	100	STY3555	63.366 STY2394	98.2 STY2392
ATGATTA +	STY4102	100		STY4102	98.2
ATGATTG +	STY4358	100	STY0247	58.252 STY4358	99.8 STY2467
ATGATTT(+)	STY4715	100	STY3129	64 STY4715	98.5 STY3129
ATGTTAC(+)	STY4365	100	STY0489	56 STY4365	100 STY0489
TTGAGCG -	STY3194	100	STY3050	76 STY3194	99.11 STY3050
ATGATAG +	STY4736	100	STY3556	66 STY4736	99.3 STY3556
GTGATGA +	STY4901	100	STY2495	64 STY4901	91.4 STY2495
ATGGCGC -	STY4693	100	STY1160	64.151 STY4693	99.3 STY1160
ATGAAAA +	STY2385	100	STY2386	74 STY2385	100 STY2386
ATGGCAT -	STY0711	100		STY0711	97.1
ATGAAAA(+)	STY3245	100	STY0646	62.857 STY3245	98.8 STY3725
ATGGAAC +	STY1097	100	STY3608	66.337 STY1097	98.8 STY3132
ATGGCGC +	STY0814	100	STY3594	63.462 STY0814	98.3 STY3594
ATGACGC +	STY0888	100	STY4168	64 STY0888	99.2 STY3040
ATGGTAC +	STY3502	100	STY3598	64.22 STY3502	99.2 STY3598
GTGAATA -	STY0819	100	STY4530	64.706 STY0819	99.2 STY4530
ATGTCCG +	STY0863	100		STY0863	98.3
TTGATGA -	STY3210	100	STY0978	90 STY3210	99.5 STY0003

ATGCTTA -	STY0284	100	HCM2.010	72	STY0284	99.1	HCM2.010
TTGACGA +	STY3403	100	STY2738	60.784	STY3403	99.6	STY2738
ATGATGA -	STY1723	100	HCM1.110	58	STY1723	99.7	STY1972
ATGAATA -	STY0854	100	STY1157	65	STY0854	98.4	STY0929
ATGCAGA +	STY0899	100	STY4874	70	STY0899	99.1	STY4874
ATGAAAA +	STY0447	100	STY1049	70.588	STY0447	99.7	STY1049
	STY2869	69	STY1979	43.269	STY2869	35.38	STY1979
	STY4720	54			STY4720	14.75	
ATGCCGA +	STY4886	100	STY3560	54.455	STY4886	99	STY3560
ATGATCT +	STY4518	100	STY4668	94	STY4518	99.6	STY4668
	STY1634	76	STY3750	61.386	STY1634	62.7	STY3750
ATGATGA +	STY4418	100			STY4418	100	
	STY0108	50			STY0108	18.07	
ATGATGA -	STY4399	100			STY4399	98.9	
ATGCAGA -	STY2219	100	STY4470	65.049	STY2219	95.43	STY4470
	STY4641	74	STY4116	57.547	STY4641	31.63	STY4116
ATGAGTA -	STY4643	100	STY4511	61.386	STY4643	98.8	STY4511
ATGTCTC -	STY3464	100	STY3668	63.107	STY3464	100	STY3668
ATGGATA -	STY3203	100	STY1310	50	STY3203	100	STY1232
ATGAAAC +	STY3442	100	STY2962	64	STY3442	99.3	STY2962
ATGAACC -	STY1474	100	STY1491	62.857	STY1474	98.7	STY1491
ATGACTA +	STY1529	100			STY1529	98.8	
ATGGTGC +	STY1453	100	STY0887	63.725	STY1453	98.1	STY0887
ATGAAAA +	STY3572	100	STY0724	60.377	STY3572	99.5	STY0724
ATGACAT +	STY0088	98	STY3560	55.446	STY0088	97.2	STY3560
ATGATGA +	STY1563	100	STY4184	59.804	STY1563	98.7	STY1319
ATGAAAA -	STY2808	100	STY0506	85	STY2808	99.4	STY0506
	STY0602a	98	STY4835	66	STY4835	45.21	STY0602a
ATGCAAA +	STY2689	100	STY1832	71.845	STY2689	99.1	STY1832
	STY3340	61.765	STY4563	59.048	STY4563	28.46	STY3340
ATGACCG +	STY2736	100	STY4651	64	STY2736	98.3	STY4285
ATGCCGA -	STY2784	100	STY0773	62.376	STY2784	100	STY0773
ATGTATT +	STY0765	100	HCM1.114	61.765	STY0765	95	HCM1.114
ATGAAAA -	STY0687	100	STY4715	51.961	STY0687	99.2	STY4715
ATGGGCC +	STY2533	100			STY2533	98.1	
	STY0286	65.385	STY1339	62.376	STY3585	14.1	HCM1.232
	STY1498	59.804	STY0163	59.223	STY1498	19.97	STY4760
	STY3904	61.905	STY1788	60.952	STY1788	8.05	STY3904
	STY4843	96	STY4284	60.185	STY4843	92.3	STY4284
ATGTTCA +	STY4846	98	STY4511	63.366	STY4846	95	STY4511
	STY4842	93	STY3773	50.962	STY4842	86.4	STY3773
	STY3183	74			STY3183	70.18	
	STY2422	48.039	STY0565	42.453	STY2422	35.03	STY0565
	STY1673	31			STY1673	15.66	
	STY0544	74	STY4796	65.094	STY0544	52.1	STY2849
	STY0520	100	STY3569	73	STY0520	98.8	STY3569
	STY0544	100	STY1838	63.393	STY0544	98.9	STY1838
	STY0569	100	STY1678	62.037	STY0569	98.4	STY3378
	STY0606	99	STY0760	60	STY0606	97.4	STY0760
	STY0644	100	STY4890	90	STY0644	98.6	STY4890
ATGTTCA -	STY1255	100	STY1748	72.277	STY1255	100	STY1748

ATGACAG -	STY1595	100	STY3175	60.194	STY1595	100	STY3175
ATGACAC +	STY1612	100	STY1571	59.615	STY1612	100	STY1614
ATGTCAC +	STY1628	100	STY4603	42	STY1628	100	STY4603
ATGCTTA +	STY1853	100	STY1853	52.941	STY1853	100	STY1853
ATGGCAG +	STY1068	100	STY2019	89	STY1068	100	STY2019
ATGATGC -	STY1606	100	STY1606	28	STY1606	100	STY1606
ATGACTA +	STY1622	100	STY1622	64.762	STY1622	100	STY2586
ATGCAAA +	STY1643	100	STY2889	88	STY1643	100	STY2889
GTGGATA +	STY1062	100	STY2025	74	STY1062	100	STY2025
GTGCGCA -	STY1049	100	STY2038	100	STY2038	100	STY1049
ATGAAGC -	STY2054	100	STY2054A	100	STY2054	100	STY2054A
ATGGCGA +	STY1616	100			STY1616	100	
ATGGCTG +	STY1632	100	STY4601	69	STY1632	100	STY4601
ATGACTA -	STY1889	100	STY0016	71	STY1889	100	STY0016
ATGGCTA +	STY1072	100	STY2014	100	STY1072	100	STY2014
ATGACCA -	STY2048	100	STY1153	54	STY2048	100	STY1153
ATGAAAA -	STY2064	100	STY2173	55.769	STY2064	100	STY2173
ATGGCGC +	STY1635	100	STY2680	58.824	STY1635	100	STY2680
ATGTATA -	STY1891	100	HCM1.107	59.633	STY1891	100	HCM1.107
ATGGATT -	STY2025	100	STY1062	74	STY2025	100	STY1062
ATGGAAA +	STY3091	100	STY4793	57	STY3091	100	HCM1.128
ATGGAAA +	STY2066	100	STY1020	61.165	STY2066	100	STY1020
ATGAAGG -	STY2296	100	STY2296	72	STY2296	100	STY2296
ATGATGG +	STY4590	100	STY0105	62.376	STY4590	100	STY0105
ATGTCAC -	STY4629	100	HCM1.268	61.165	STY4629	100	STY0322
GTGGAAA -	STY4652	100	STY2608	58	STY4652	100	STY2608
ATGACGA +	STY4557	100	STY4459	59.406	STY4557	100	STY4459
ATGAGCC +	STY4574	100			STY4574	100	
ATGAGCC +	STY4591	100	STY3446	60	STY4591	100	STY3446
ATGTTTC -	STY4826	100	STY2402	62.136	STY4826	100	STY4600
TTGAGTC +	STY4851	100	STY1758	60.396	STY4851	100	STY1758
ATGAAAA -	STY4625	100	STY3677	98	STY4625	100	STY3677
ATGAGAG +	STY4528	100			STY4528	100	
ATGTCTC +	STY4552	100	STY1011	68	STY4552	100	STY0693
GTGGCCA -	STY4827	100	STY3461	60.577	STY4827	100	STY3461
ATGTTTG -	STY3197	100	STY1901	79	STY3197	98.6	STY1901
ATGAAGG -	STY2634	100	STY1735	73	STY2634	99.1	STY1735
ATGTCAG -	STY2234	100	STY4319	67.961	STY2234	98.7	STY4775
ATGAAAA -	STY4234	100	STY2128	86	STY4234	98.7	STY4892
GTGGCAC +	STY0143	100			STY0143	98.9	
GTGCTAG +	STY0181	100	STY4276	65.686	STY0181	96.7	STY4276
ATGGCAA -	STY0170	100	STY0647	60.748	STY0170	98.2	STY4253
	STY4283	61.538			STY4283	9.09	
ATGCGTG +	STY0220	100	STY3155	60.784	STY0220	98.5	STY3155
ATGAACA +	STY0259	100	STY2806	83	STY0259	98.2	STY2806
ATGAGAT +	STY1547	100	STY2951	66	STY1547	99.4	STY2951
	STY3918	61.538	STY0589	60.396	STY3918	36	STY0024
ATGAAAA +	STY0735	100	STY3106	63	STY0735	99.8	STY1980
GTGATCG +	STY2173	100	STY0063	72	STY2173	99.3	STY0063
ATGAAAA -	STY4084	100	STY4083	60.396	STY4084	97.6	STY0200
ATGAACG -	STY2228	100			STY2228	99	
ATGCAAA -	STY1326	100			STY1326	99.3	

ATGAAAC +	STY0093	100		STY0093	98.06
ATGGACA +	STY3930	100	STY3116	62.963 STY3930	98.8 STY2332
ATGTCTA +	STY0015	99		STY0015	97.4
ATGCAAG +	STY3265	100	STY0809	59.406 STY3265	98.9 STY0809
ATGCTGT -	STY3491	100	STY3725	65.049 STY3491	99.9 STY3110
ATGTTCA +	STY3527	100	HCM2.004:	66 STY3527	99.8 HCM2.004:
ATGGGTC +	STY0682	100	STY3586	68 STY0682	99 STY3586
GTGCGTA +	STY1189	100	STY4932	64.22 STY1189	100 STY4932
ATGAAAG -	STY4299	100	STY2523	62.037 STY4299	99.5 STY2677
	STY3876	72.549	STY3711	71.287 STY2961	18.65 STY3711
ATGATCT, +	STY4267	100	STY0949	58.824 STY4267	97.8 STY0949
TTGTCCG -	STY4894	100		STY4894	99.3
ATGTCTT -	STY1244	100		STY1244	98.3
	STY1762	34		STY1762	6.23
	STY4259	100	STY3777	60.396 STY4259	62.35 STY3777
ATGGGTA -	STY4898	100	STY3115	52.885 STY4898	98.9 STY3115
ATGTTAC, +	STY4932	100	STY0804	52 STY4932	98.5 STY0804
	STY0377	63	STY2716	60.784 STY0377	26.84 STY2716
ATGTCGA -	STY4235	100	STY0746	72.115 STY4235	98.6 STY0544
	STY0026	60.577	STY0336	57.843 STY0336	7.8 STY0026
	STY4610	53.922	STY1625	41.748 STY4610	7.49 STY1625
	HCM1.122	60.577	STY3010	59.259 HCM1.122	9.48 STY3010
	STY1271	60.396	STY4821	60 STY4821	20.87 STY1271
ATGGATA +	STY2908	100	STY4322	49.515 STY2908	98.8 STY4322
ATGCTGG +	STY4440	100	STY2734	66.346 STY4440	99.6 STY2734
ATGAGGA -	STY4494	100	STY2988	62.745 STY4494	98.8 STY2988
ATGACCG -	STY0901	100	STY0750	59.459 STY0901	99.3 STY0750
	STY2048	64.356	STY1633	62.037 STY2048	26.14 STY1633
ATGTCGC -	STY2714	100	STY1487	64.545 STY2714	99.7 STY1487
ATGAGCA +	STY2687	100	STY3129	70.588 STY2687	99.2 STY3129
ATGATGA -	STY0932	100	STY2563	61.261 STY0932	98.6 STY2563
ATGCCGA +	STY0967	100	STY4705	66.038 STY0967	99.2 STY2514
ATGATTG, +	STY0996	100	STY4862	64.423 STY0996	98.8 HCM1.227,
	STY4872	59.048	STY2216	58.252 STY4872	7.92 STY2216
GTGGCAC +	STY3777	100	STY1242	77 STY3777	53.32 STY1242
	STY1004	57.282	STY2305	56 STY2305	17.43 STY1004
GTGCAAA -	STY4703	100	STY0777	74 STY4703	99.3 STY0777
ATGGAAC -	STY2655	100	STY1578	80 STY2655	98.77 STY1578
	STY2844	64.486	STY2473	61.321 STY2473	5.04 STY3966
ATGACCA +	STY2779	100	STY2877	63.81 STY2779	98.3 STY2877
TTGGTCA -	STY2815	100	STY0435	57.692 STY2815	99.1 STY0435
ATGAAAA, +	STY2807	100	STY0750	84 STY2807	98.8 STY0750
ATGGGCC -	STY4709	100	STY4607	69 STY4709	99.4 STY2397
ATGGAAA -	STY2211	100	STY3808	64.22 STY2211	98.8 STY3808
ATGGACC -	STY2546	100	STY4700	66.337 STY2546	90.81 STY2548
ATGACTG -	STY2590	100	STY4071	65.686 STY2590	99.3 STY4210
ATGTTTT, +	STY1237	100	STY0720	60.784 STY1237	100 STY0720
ATGAAGC +	STY2261	97	STY2705	61.538 STY2261	94.3 STY2705
	STY3739	100	STY4353	100 STY3739	98.62 STY4353
GTGTATC -	STY1576	100	STY0720	71 STY1576	93.37 STY0720

ATGGAAC +	STY0341	100	STY0197	51.961	STY0341	98.69	STY0197
ATGAAAC +	STY1681	100	STY1791	62.617	STY1681	99.2	STY3545
ATGCTGC +	STY4753	100	STY4345	67.327	STY4753	99.5	STY4345
ATGCCAG +	STY0134	100	STY3165	66.038	STY0134	99.4	STY3220
ATGCTGA -	STY2152	100	STY2151	96	STY2151	57.34	STY2152
	STY4676	83	STY3827	54	STY4676	32.98	STY3827
	STY4892	53.465	STY3877	51	STY4892	6.61	STY3877
ATGGAAT +	STY2544	100	STY0455	56.604	STY2544	90.16	STY0455
ATGATTA -	STY2570	100	STY2164	59	STY2570	97.9	STY2164
ATGGGTA -	STY4802	100	STY2536	61.468	STY4802	98.6	STY2536
	STY1272	62	STY2967	61.111	STY4485	3.5	STY3137
ATGAGTA -	STY2589	100			STY2589	99.3	
ATGCAAA +	STY1229	100	STY0112	63.366	STY1229	99.6	STY0112
ATGCGTT -	STY1767	100	STY2450	66	STY1767	99.6	STY2450
ATGTTGA -	STY1111	100			STY1111	99.7	
ATGAAGT +	STY0336	100	STY3920	79	STY0336	98.8	STY0593
ATGAGTC +	STY0255	100	STY0931	61.765	STY0255	99.4	STY0931
ATGAGAC -	STY0485	100	HCM2.001	55.769	STY0485	99.8	HCM2.001
ATGGCTA +	STY0176	100	STY0780	60	STY0176	98.4	STY0780
ATGGAAC -	STY1796	100	STY4416	70	STY1796	98.9	STY4416
GTGAAAA +	STY2900	100	STY2803	82.692	STY2900	98.9	STY2803
ATGACTA +	STY1662	100	STY2495	74.257	STY1662	99.1	STY2495
GTGAGTC +	STY1579	100	STY3981	89	STY1579	98.8	STY3981
ATGAAGA -	STY4425	100	STY3570	72	STY4425	98.9	STY3570
ATGAAAA -	STY0351	100	STY1628	60.396	STY0351	98.6	STY1878
ATGTCGG +	STY0409	100	STY1927	61	STY0409	98.8	STY1927
GTGTTAA +	STY0445	100	STY1302	59.406	STY0445	99.6	STY1302
ATGATTA +	STY0144	100	STY0043	72.277	STY0144	98.9	STY0812
ATGGTCT -	STY2593	100	STY0830	60.396	STY2593	100	STY0830
ATGCGTC -	STY2904	100	STY4491	72	STY2904	98.4	STY3354
ATGTCTC -	STY1753	100			STY1753	98.9	
ATGAGTC +	STY4251	100	STY4252	67	STY4251	99.6	STY4172
ATGCGTA +	STY0504	100	STY2678	70	STY0504	99.2	STY0985
GTGAAAA +	STY0617	100	STY0173	79	STY0617	99.1	STY0173
ATGGCCT +	STY2446	99.01	STY3319	63.462	STY2446	98.5	STY3319
ATGACCT -	STY4771	100	STY1755	68.932	STY4771	99.32	STY1755
GTGACAC +	STY2838	100	STY2259	59.813	STY2838	98.6	STY2259
ATGATTG +	STY4161	100	STY0985	67	STY4161	98.4	STY0985
ATGAAAT +	STY3458	100	STY4816	72	STY3458	96.62	STY2405
ATGTTGG -	STY2522	100	STY1972	70	STY2522	98.7	STY1972
ATGGATT -	STY2786	100	STY2964	55.446	STY2786	99.6	STY2964
ATGAATA +	STY0032	100	STY0592	65.347	STY0032	94.57	STY3087
ATGAAAA -	STY4774	100	STY0475	65.094	STY4774	99.3	STY0475
ATGAAAA -	STY4896	100	STY1023	68	STY4896	98.6	STY2062
ATGGCCT -	STY4903	100	STY1955	58.252	STY4903	99.5	STY1955
ATGCGTG +	STY4086	100			STY4086	99.4	
ATGGCGA +	STY4180	100	STY3076	61.165	STY4180	98	STY3076
ATGAGTC -	STY3451	100	STY3458	62.385	STY3451	93.26	STY3458
ATGAAAA -	STY2511	100	STY4258	71	STY2511	98.4	STY4258
ATGAATC +	STY2506	100	HCM2.012	83	STY2506	98.3	HCM2.012

ATGAAAAI-	STY3017	100	STY1705	71	STY3017	99.5	STY1705
ATGACCA-	STY3787	100	STY3351	66.019	STY3787	99.3	STY2801
ATGAGTA-	STY0737	100	STY3578	58.416	STY0737	99.2	STY3578
ATGAGTA+	STY0780	100	STY0176	61.165	STY0780	99.6	STY0176
ATGCAAC+	STY3876	100	STY1370	77	STY3876	97.9	STY3711
ATGATCC+	STY4327	100	STY3762	62.162	STY4327	98.9	STY3762
ATGGTTC-	STY3881	100	STY4240	63.107	STY3881	99.2	STY3111
ATGATAT(+	STY0909	100	STY0366	60.577	STY0909	99	STY0366
ATGATTG-	STY4339	100	STY0879	70	STY4339	98.2	STY0879
ATGTCGC-	STY4463	100	STY0624	66	STY4463	99.1	STY4933
GTGGAAC+	STY2825	100	HCM2.005	68.224	STY2825	99.2	HCM2.005
ATGTTGC-	STY2085	100	STY0492	60	STY2085	99.2	STY0492
ATGAAAC+	STY3713	100	STY2621	83.168	STY3713	99.1	STY2621
ATGAAAT(+	STY3862	100	STY0714	53.846	STY3862	99.3	STY0714
GTGCAGA+	STY1697	100	STY0063	61	STY1697	99.31	STY0063
GTGCGAC+	STY2675	100	STY0148	56	STY2675	84	STY0148
ATGGGGC-	STY0256	100	STY0437	100	STY1844	99.8	STY3154
ATGAATG-	STY2850	100	STY3102	60	STY2850	98.9	STY3102
ATGACAG+	STY0060	100	STY0706	84	STY0060	97.9	STY0706
	STY1013	98	STY4775	28	STY1013	93.3	STY4775
ATGATAA+	STY1994	91	STY2379	62.162	STY1994	90.8	STY2379
ATGCATA+	STY3184	100	STY1004	59.223	STY3184	100	STY1459
ATGCTCT+	STY4728a	97	STY4729	29	STY4728a	9.29	STY4729
ATGCACA+	STY4859	100	STY4822	57.843	STY4859	97.3	STY4822
ATGAATA(+	STY2256	100	STY2700	75	STY2256	95.8	STY2700
ATGACAT(+	STY4478	100	STY2477	68.932	STY4478	94.8	STY4479
ATGTCTC.	STY2113	100	STY1825	61	STY2113	99.3	STY1825
GTGAAAT+	STY4453	100	HCM2.005	59.813	STY4453	98.9	HCM2.005
ATGGGCA-	STY0009	100	STY0278	61	STY0009	99.3	STY3474
	STY4602	91	STY2883	88	STY4602	85.2	STY2883
ATGAGCA+	STY0048	100	STY0511	59.223	STY0048	99.2	STY0511
ATGACAC-	STY3636	100	STY1544	51.961	STY3636	99.3	STY1544
ATGTATC.	STY3597	100	STY0499	68.317	STY3597	99.6	STY0499
ATGAGTA+	STY3622	100	STY0359	65.686	STY3622	98.7	STY0359
ATGACCG-	STY3228	100	STY1825	62.376	STY3228	99.31	STY1825
ATGAGAA+	STY1296	100			STY1296	99.6	
GTGGCG/+	STY1917	100	STY1916	88	STY1917	87.75	STY2537
ATGATTT-	STY3162	100	STY2835	65.421	STY3162	98.3	STY2401
ATGAAAA+	STY3097	100	STY3429	79	STY3097	99	STY3429
ATGACAA+	STY3125	100	STY1749	57.843	STY3125	99.1	STY1749
ATGAACA+	STY3819	100	STY3891	60.748	STY3819	98.4	STY3891
TTGATTA(+	STY3108	100	STY3652	50	STY3108	99.7	STY3652
ATGGCAC+	STY3846	100	STY3380	63.462	STY3846	95.6	STY0534
ATGACAA-	STY3594	100	STY0144	85	STY3594	99.1	STY0144
ATGACGC-	STY3610	100	HCM1.167	65.347	STY3610	99.1	STY3200
GTGAAAG-	STY3635	100	STY1928	61.765	STY3635	99.6	STY1928
ATGAAAG-	STY3741	100			STY3741	98.8	
ATGTTAA(+	STY3134	100	STY0202	62.136	STY3134	98.9	STY0717
ATGAATG+	STY1309	100	STY0887	72	STY1309	98.4	STY4172
ATGCGAC+	STY3789	100	STY4635	71.963	STY3789	99.1	STY4635
ATGACCG+	STY0527	100	STY3468	60.194	STY0527	99.3	STY4628

ATGAACA -	STY0628	100	STY2894	84	STY0628	98.8	STY2894
ATGAAAG +	STY0976	100	STY0853	63.303	STY0976	98.7	STY0853
ATGTCTT, +	STY0338	100	STY3642	58.824	STY0338	98.5	STY3642
ATGTCAG -	STY1514	100			STY1514	97.3	
ATGCACT +	STY1479	100	STY1488	69.307	STY1479	99	STY1488
	STY3708	60.55			STY3708	15.16	
ATGGCTA -	STY1403	100	STY4737	62	STY1403	99.1	STY4737
ATGCCGT +	STY1353	100	STY2293	68.932	STY1353	56.34	STY2293
ATGACAA +	STY0556	100			STY0556	99.3	
ATGAAGC -	STY1005	100	STY0502	57.143	STY1005	98.9	STY0502
ATGCGCC -	STY0954	100	STY0707	67.647	STY0954	98.8	STY0955
GTGGTGC -	STY0669	100	STY0071	63.366	STY0669	74.79	STY0071
ATGATTA, -	STY0652	100	STY3312	69.307	STY0652	98.1	STY3312
ATGAAAA, +	STY1319	100	STY0824	69.444	STY1319	98.9	STY0824
GTGCAGA -	STY1491a	100	STY4240	57.426	STY1491a	97.92	STY1491a
GTGAATA +	STY1443	100	STY4158	65	STY1443	98.1	STY4158
GTGACCG +	STY1410	100	STY0855	74	STY1410	98.38	STY3461
ATGAAGC +	STY1376	100			STY1376	97.78	
ATGGCGC +	STY3095	100	STY0915	62.376	STY3095	98.7	STY0915
ATGTTAT +	STY3149	100	STY2332	71.569	STY3149	99.2	STY2332
ATGAAGG +	STY3186	100			STY3186	99.16	
ATGAATA -	STY3252	100	STY0165	69	STY3252	98.4	STY0165
ATGCAAG +	STY0489	100	STY2615	60.377	STY0489	99.5	HCM2.000
ATGTACC -	STY4228	100	STY2810	61.765	STY4228	98.9	STY2810
ATGAACG -	STY4117	100			STY4117	98.2	
ATGCAGC +	STY4018	100	STY4786	67	STY4018	97.7	STY4786
ATGAAAA, -	STY3353	100	STY2698	63.303	STY3353	99	STY1545
GTGAAAA -	STY3159	100	STY3158	47	STY3159	98.3	STY3158
	STY0255	48.113			STY0255	5.3	
	STY1829	65.347	STY3384	61.765	STY3593	22.76	STY1829
ATGTCAC +	STY4170	100	STY0890	73	STY4170	98.6	STY1357
ATGACAT -	STY4133	100			STY4133	96.07	
ATGGCTT -	STY4099	100	STY3945	66.99	STY4099	99.4	STY3945
ATGAAAT -	STY4045	100	STY2937	63.107	STY4045	98	STY2937
ATGATGA +	STY0389	100	STY2040	57	STY0389	98.8	STY1047
ATGACTA -	STY2975	100	STY0469	59	STY2975	98.9	STY0469
ATGGGAT -	STY3302	100	STY0943	60.194	STY3302	98.5	STY0943
ATGTGTA +	STY2977	100	STY2869	75	STY2977	99	STY2869
ATGATGA +	STY2412	100	STY4470	59.223	STY2412	99	STY4470
ATGTCTT -	STY2293	100	STY2317	75	STY2293	98.5	STY2317
ATGCGTT -	STY2334	100	STY1696	59	STY2334	98.3	STY3472
ATGAAAC -	STY2474	100	STY3965	100	STY2474	98.9	STY3965
ATGCCGC +	STY2454	100	STY1306	58.416	STY2454	99.1	STY1306
ATGGAAC -	STY2374	100	STY3888	58	STY2374	99.3	STY0469
ATGATGC -	STY1975	100	STY3109	69.307	STY1975	99.3	STY3109
GTGGCCC +	STY4380	100	STY3901	59.406	STY4380	99.7	STY3901
ATGGCTT -	STY4212	100	STY2136	68	STY4212	99.1	STY2136
ATGGATT -	STY3522	100	STY2555	65.347	STY3522	99	STY4874
ATGTCTA, -	STY4191	100			STY4191	99.4	
ATGCCAT -	STY4284	100	STY4820	76	STY4284	98.3	STY4820
ATGTTAG, +	STY4762	100	STY2792	66	STY4762	98.5	STY3628

ATGTCTA(-	STY3360	100	STY3360	66.667	STY3360	99.3	STY1078
ATGAAAC(+	STY2959	100	STY0186	61.765	STY2959	100	STY4280
ATGCCGC(+	STY2416	100	STY3511	85	STY2416	99.3	STY3511
ATGGCTG(+	STY3334	100	STY3406	77	STY3334	99.4	STY3406
ATGAGCA(-	STY1712	100	STY2960	64.762	STY1712	98	STY2621
ATGAAAC(+	STY0777	100	STY4703	74	STY0777	98.8	STY4703
ATGCGCA(-	STY0835	100	STY4252	59.223	STY0835	99.4	STY4252
	STY3186	62.5			STY3186	5.34	
GTGGCGC(+	STY1214	100	STY4292	64.706	STY1214	99.5	STY4292
ATGACAA(-	STY0826	100	STY3396	75	STY0826	99	STY2912
ATGACGA(+	STY3512	100			STY3512	90.62	
ATGATGA(-	STY4032	100			STY4032	98.7	
ATGGAAA(+	STY3366	100	STY4732	70	STY3366	98.9	STY4732
ATGAAAA(-	STY1716	100	STY0642	83	STY1716	97.2	STY4687
ATGAAAA(+	STY0872	100	STY0380	60.784	STY0872	99.2	STY0380
ATGACCG(+	STY4740	97	STY1791	86.538	STY4740	93.8	STY1791
ATGAAAA(-	STY0428	100	STY1538	59.804	STY0428	98.4	STY1538
	STY4883	99	STY0544	61.538	STY4883	89.7	STY0544
ATGAAAC(+	STY0495	100	STY4495	59.813	STY0495	99.7	STY4495
TTGGTGC(-	STY0599	100	STY2350	70.192	STY0599	97.4	STY2350
ATTCACA(-	STY0602	100	STY0602a	99	STY0602	68.13	STY0602a
ATGCGTA(+	STY0329	99	STY0081	61.538	STY0329	97.9	STY4848
ATGGTGC(+	STY0375	97.059	STY2879	63.462	STY0378	43.54	STY0375
ATGAGTC(+	STY0377	99	STY0374	71	STY0377	97	STY0374
GTGGACC(-	STY3106	100	STY0808	89.109	STY3106	99.6	STY0808
ATGTTTC(-	STY4516	97	STY2840	58.333	STY4516	93.3	STY2840
ATGGGCC(+	STY3799	99	STY0257	57.547	STY3799	72.3	STY0257
ATGAGTA(+	STY3999	100			STY3999	99	
ATGTGTA(-	STY3314	100	STY2978	71.845	STY3314	99.6	STY2978
ATGTGTA(+	STY1528	100	STY4223	63.725	STY1528	98.7	STY4223
ATGGTAA(+	STY1540	100	STY3130	53.922	STY1540	86.46	STY3130
ATGAAGA(+	STY3974	99	STY3975	62.745	STY3974	99.1	STY3214
ATGTCAG(-	STY4048	100	STY1256	70	STY4048	97.85	STY3743
ATGATGA(-	STY4177	100	STY2271	46	STY4177	99.5	STY2271
ATGCAGA(+	STY3987	100	STY2711	60	STY3987	99.3	STY3122
	STY3710	51.923	STY2494	45.192	STY3710	19.29	STY2494
GTGACCC(-	STY1757	100	STY0643	73	STY1757	94.86	STY0643
	STY3641	31.081			STY3641	31.08	
	STY2012	72	STY2207	66	STY2012	65.09	STY4608
	STY2958	72.277	STY4871	54.455	STY2958	64.44	STY4871
ATGATGG(-	STY3643	98	STY0798	66	STY3643	90	STY2460
	HCM1.183	58.716			HCM1.183	36.78	
ATGTTGG(-	STY3487	100	STY2365	59.223	STY3487	100	STY0488
ATGGAAA(-	STY2147	100	STY2148	100	STY2148	58.43	STY2147
	STY4597	86	STY2205	74	STY4597	79.1	STY2205
	STY4598	79	STY2206	73	STY4598	67.38	HCM1.252
	STY2082	63	STY2103	59.804	STY2082	32.56	STY2103

	STY4288	76	STY0523	75.248	STY4875	59.07	STY4020
	HCM2.013	72	STY2526	57.282	HCM2.013	52.44	HCM1.54
	STY4490	63.366	STY2397	61.765	STY3587	26	STY4490
	STY1941	47	STY2900	24	STY1941	38.24	STY2900
	STY1503	60.952	STY2668	51	STY1503	15.77	STY2668
	STY2493	100	STY2203	85	STY2493	99.7	STY1649
	STY2581	100	STY2159	70	STY2581	98.4	STY2159
	STY2585	100	STY2584	76	STY2585	99.2	STY2584
	STY2710	100	STY0007	72	STY2710	99	STY0007
ATGAATC-	STY2717	100	STY3511	71	STY2717	98.4	STY4477
	STY0157	52.427		STY0157		31.77	
ATGCTCG-	STY0205	100	STY3920	67	STY0205	100	STY0593
ATGAATA+	STY0326	100	STY2350	61	STY0326	100	STY2350
	STY0587	100	STY2349	58	STY0587	100	STY2349
ATGGTAT+	STY1030	100	STY0122	62.963	STY1030	100	STY0311
ATGATTA+	STY1052	100	STY2035	94	STY1052	100	STY2035
ATGGAAT-	STY2027	100	STY1060	90	STY2027	100	STY1060
ATGCACT+	STY0405	100	STY4081	65.347	STY0405	100	STY4081
ATGACTA-	STY1019	100	STY4202	58.252	STY1019	100	STY4202
ATGGCAA+	STY1046	100	STY2041	85	STY1046	100	STY2041
ATGAGTT-	STY2021	100	STY1066	78	STY2021	100	STY1066
ATGAACA+	STY3087	100	STY3175	66.055	STY3087	100	STY3175
ATGGCTA+	STY3285	100	STY1729	74.257	STY3285	100	STY1729
ATGTATC-	STY0947	100	STY1405	88	STY0947	100	HCM1.210
ATGTCCG+	STY1040	100	STY0138	58	STY1040	100	STY3294
ATGCCGA+	STY1056	100	STY2031	94	STY1056	100	STY2031
ATGCCGA-	STY2031	100	STY1056	94	STY2031	100	STY1056
ATGCTCA-	STY3193	100	STY0820	48.113	STY3193	100	STY0820
ATGCTGG-	STY3347	100	HCM1.247	63.889	STY3347	100	HCM1.247
	STY1042	100	STY0321	61.765	STY1042	100	STY2548
ATGGCAC+	STY1058	100	STY2029	86	STY1058	100	STY2029
ATGTTCT-	STY1076	100	STY3370	61.321	STY1076	100	STY3370
GTGATTT-	STY2050	100	STY1049	60.784	STY2050	100	STY3956
ATGACTA-	STY0064	100	STY3532	100	STY0064	100	STY3532
ATGAGCA+	STY3667	100	STY4636	90	STY3667	100	STY4636
ATGAGCG+	STY4854	100	STY2296	61.386	STY4854	100	STY2820
	STY4403	100	STY3601	61.165	STY4403	100	STY3601
ATGTCTA+	STY4534	100	STY3635	62	STY4534	100	STY3635
TTGGCCT-	STY4677	100	STY4677	86	STY4677	100	STY3644
ATGAGAC+	STY4830	100	STY4122	63.462	STY4830	100	STY1324
	STY4870	100		STY4870		70	
ATGACAC+	STY4578	100	STY0674	61.165	STY4578	100	STY0221
ATGTTTC+	STY4595	100	HCM1.20c	70.588	STY4595	100	HCM1.20c
ATGAGCA-	STY4636	100	STY3667	90	STY4636	100	STY3667
ATGCCGC-	HCM1.04c	100	HCM1.136	100	HCM1.204	100	HCM1.238
TTGGGCC-	STY4674	100	STY0367	54	STY4674	100	STY0367
ATGACGA+	STY4579	100	STY0674	72.277	STY4579	100	STY0674
ATGATTA+	STY3957	100	STY4176	66.019	STY3957	98.3	STY4176
ATGAGCC-	STY3937	100	STY2826	64.762	STY3937	99	STY2826
ATGGCTT+	STY3907	100		STY3907		99.9	
ATGGGCA+	STY4080	100	STY4080	67.308	STY4080	98.9	STY0703
ATGGGTC-	STY3492	100	STY2678	65	STY3492	99.4	STY2678

	STY2039	62.745		STY2039	11.36
ATGGCTG -	STY3523	100	STY2406	59.223	STY3523 99.2
ATGTTGA -	STY3554	100	STY4234	61.765	STY3554 99.7
ATGAAGA -	STY0688	100	STY0896	80	STY0688 99.4
	STY0012	65.385	STY3554	63.462	STY0012 11.09
ATGACTG -	STY0731	100	STY0183	51	STY0731 99.6
ATGTCAC -	STY3954	100	STY3812	71	STY3954 99
ATGGAGC +	STY1526	100	STY1915	78.218	STY1526 99.9
	STY2521	64	STY2500	63.366	STY2500 10.6
ATGCAGG -	STY3935	100	STY4311	63.81	STY3935 92.37
ATGAGCA -	STY3898	100			STY3898 99.3
ATGCTTA +	STY1779	100	STY4459	55.882	STY1779 99.8
ATGAGAG -	STY0809	100			STY0809 98.7
ATGAAAG -	STY2235	100	STY2235	63.366	STY2235 98.4
ATGATTA +	STY4081	100			STY4081 98.7
ATGAAAA +	STY0098	100	STY0099	100	STY0098 80.11
ATGTCTG -	STY0160	100	STY0025	51	STY0160 99.5
ATGAAAG +	STY0193	100			STY0193 99.4
ATGTATG -	STY0233	100	STY3824	49	STY0233 99.2
ATGGCCC +	STY4392	100	STY4393	29	STY4392 98.8
ATGTCGA +	STY4337	100	STY4115	62.5	STY4337 99.7
TTGACTA +	STY1251	100	STY1290	63.725	STY1251 99.4
ATGGCAC +	STY1868	100	STY1431	65	STY1868 98.9
GTGACCA -	STY1830	100	STY0472	62.376	STY1830 99.5
ATGACAG -	STY2329	100	STY1573	65	STY2329 96.98
ATGAAAA +	STY1254	100	STY0860	61.905	STY1254 98.8
ATGCAAC -	STY1859	99			STY1859 98.5
ATGAAAT(-	STY1828	100	STY3338	64.762	STY1828 98.8
ATGGAAT +	STY2332	100	STY1958	88	STY2332 99.6
ATGCGTG +	STY4949	100	STY2791	65	STY4949 98.4
ATGTCAA -	STY2321	100	STY4473	77	STY2321 98.1
ATGTTTA +	STY2365	100	STY4170	60.194	STY2365 98.78
	STY4514	63.208	STY0301	60.396	STY0301 26.65
GTGCGTA +	STY0329	99	STY0343	99	STY0329 99
	STY0130	73	STY4273	62.5	STY0130 57.24
ATGAATT(+	STY1082	100			STY1082 99
ATGCCAC +	STY3748	100	STY2809	63.208	STY3748 99.4
ATGCCGC -	STY3040	100	STY0566	63	STY3040 97.8
ATGAAAA +	STY2618	100	STY3036	75.49	STY2618 99.6
ATGAACT -	STY2660	100	STY0277	66	STY2660 99.4
	HCM2.005:	57.692	STY2778	46.602	HCM2.005: 38.58
ATGGCTA -	STY2771	100	STY4936	92	STY2771 97.5
	STY0522	59.804			STY0522 15.1
ATGACGC -	STY2751	100			STY2751 96
ATGAGAC -	STY2790	100	STY4181	81	STY2790 99.4
	STY4610	65	STY1636	60.577	STY3692 33.6
ATGAATA +	STY3812	100	STY3954	69	STY3812 99.1
	STY1625	87	STY4607	61.765	STY1625 69.56
ATGACGT -	STY3036	100	STY2941	65	STY3036 98.8
	STY3071	78	STY3278	59.615	STY3071 38.31
ATGAGCA -	STY2678	100	STY1573	88	STY2678 96.1

ATGCGCT -	STY2724	100	STY1652	58.416	STY2724	97.32	STY3480
ATGCCAG +	STY0971	100	STY3073	69	STY0971	96.6	STY3073
ATGTTAG +	STY1009	100	STY0006	67	STY1009	98.49	STY0006
ATGCAGC +	STY0993	100	STY2396	62	STY0993	99.9	STY2396
ATGCCAC -	STY2161	100	STY2237	63.107	STY2161	97.9	STY2237
ATGAACG +	STY2284	100	STY0287	59.406	STY2284	98.7	STY0287
GTGAACC -	STY2563	100	STY4318	68	STY2563	99.1	STY4318
ATGTCTC +	STY2259	100	STY2243	73	STY2259	97.3	STY2701
GTGTTTCG -	STY1851	100	STY4064	65.347	STY1851	90.23	STY4064
GTGATAG +	STY1169	100	STY3519	72	STY1169	99	STY3519
ATGAAGC -	STY1784	100	STY2185	56.436	STY1784	99.2	STY2185
ATGTCTT +	STY0403	100	STY4473	73	STY0403	98.5	STY4473
ATGTCGC +	STY1793	100			STY1793	99.2	
ATGTTAT(-	STY4712	100	STY3383	60.396	STY4712	99	STY4793
	STY2203	100	STY1649	89	STY2203	46.88	STY1649
ATGTCGT +	STY1730	100	STY2390	74	STY1730	97.77	STY2390
GTGATGC -	STY4734	100	STY4820	63.366	STY4734	99.1	STY4820
	STY0089	64.356	STY3244	62.136	STY3160	16.32	STY4875
ATGAACA +	STY2505	100	STY3563	62.745	STY2505	99	STY3563
	STY3687	63.462	STY3989	63.366	STY0426	13.32	STY3687
ATGGCTT +	STY4876	100	STY2911	70	STY4876	98.2	STY2911
ATGTTTG +	STY2528	100	STY3526	63.81	STY2528	98.9	STY3526
ATGAAGC +	STY2562	99	STY2073	66.667	STY2562	98	STY0535
	STY1960	63.889	STY3116	62.385	STY4015	44.65	STY1960
ATGATTC(-	STY1852	100	STY0579	60.194	STY1852	98.5	STY0579
	STY3084	64.22	STY4500	62	STY3090	45.49	STY3084
ATGTCTT +	STY0400	100	STY4402	77.982	STY0400	99.2	STY4402
ATGAACA +	STY2842	100	STY3639	64.706	STY2842	98.6	STY3639
ATGAGTG +	STY0423	100	STY2791	65.421	STY0423	99.1	STY2791
ATGGCCA +	STY4432	100	STY4224	87	STY4432	99.7	STY4224
ATGAAAC -	STY2577	100	STY2800	56.436	STY2577	99.3	STY2800
ATGGCTG +	STY2527	100	STY3630	73	STY2527	98.9	STY3630
ATGATGC +	STY4422	100	STY0242	59	STY4422	99.5	STY0242
ATGAAAC -	STY1748	100	STY2218	79	STY1748	98.5	STY2218
ATGACCT +	STY1483	100	STY0539	50	STY1483	98.9	STY0539
ATGATGA -	STY2491	100	STY1405	64	STY2491	98.2	STY1405
ATGAAAA +	STY3997	100	STY2094	58.824	STY3997	99.6	STY4201
ATGGCGA -	STY2823	100			STY2823	99.5	
TTGAAAA -	STY0187	100	STY4804	70	STY0187	98.6	STY4500
ATGGATT -	STY2266	100			STY2266	100	
ATGTTGC +	STY0168	100	STY0927	51.485	STY0168	99.5	STY0927
ATGAAAA -	STY0179	100	HCM1.221	61.111	STY0179	99.6	STY0659
ATGCCTG -	STY1778	100	STY3854	65.741	STY1778	98.7	STY0470
ATGAAGT +	STY0464	100	STY3469	55	STY0464	98.2	STY3469
ATGGAAA +	STY1645	100	STY2805	63.107	STY1645	98	STY4493
ATGACAC -	STY0541	100	STY4902	65.385	STY0541	98.8	STY3151
ATGGAGC -	STY0542	100	STY2595	54.286	STY0542	98.4	STY2595
GTGAGAC -	STY0638	100	STY0979	70.297	STY0638	97.8	STY0979
ATGGAAA -	STY4814	100	STY4503	64	STY4814	97.2	STY4503
ATGCAGA -	STY4947	100	STY4294	71	STY4947	98	STY3954
ATGTTTT(-	STY3394	100	STY2128	84	STY3394	96	STY3325
ATGAATC(-	STY4049	100	STY4726	65	STY4049	98.8	STY4726

ATGGAGT +	STY1860	100	STY1401	64.706	STY1860	99	STY1401
ATGGGTA -	STY2657	100	STY3268	80	STY2657	98.9	STY3268
ATGCGTA +	STY2890	100	STY2326	54.286	STY2890	97.9	STY2326
	STY0631	52.885	STY4044	48	STY0631	15.63	STY4044
ATGAGAA +	STY1032	100	STY1200	66.337	STY1032	97.43	STY1200
ATGTCTC -	STY2835	100	STY3162	66.337	STY2835	98.9	STY1900
ATGTTTG +	STY3370	100	STY3771	77	STY3370	99.1	STY3771
ATGGACA +	STY4223	100	STY1528	65.385	STY4223	98.4	STY1528
GTGAACG +	STY4306	100	STY0950	67.925	STY4306	96.6	STY0950
ATGGACG +	STY2690	100	STY2080	64.815	STY2690	99	STY2080
ATGTCCT -	STY3010	100	STY0963	61.905	STY3010	98.9	STY1698
	STY2701	98	STY2243	72	STY2701	96.9	STY2243
TTGCACG -	STY3815	100			STY3815	98.8	
ATGGCAC -	STY0706	100	STY0060	66	STY0706	95.7	STY0060
ATGGAAC +	STY0748	100	STY2477	63	STY0748	98.1	STY1336
ATGAAAA +	STY3023	100	STY2849	53	STY3023	98.9	STY2849
ATGCTGA +	STY0600	100	HCM2.002	61.765	STY0600	97.8	HCM2.002
ATGACTG -	STY0817	100	STY3947	67	STY0817	94.46	STY3870
ATGCGCA +	STY0803	100	STY2934	75.728	STY0803	99.5	STY4224
ATGAAAA -	STY1091	100	STY4157	64	STY1091	99.2	STY4157
ATGTCTT +	STY1216	100	STY4251	63.366	STY1216	99.4	STY4251
ATGAAGC -	STY1901	100	STY3197	86	STY1901	99.3	STY3197
ATGAGTC -	STY2137	100	STY4405	57	STY2137	99.1	STY2764
ATGGGCC -	STY2207	99	STY2012	61	STY2207	97.5	STY2012
GTGAATC +	STY3909	100	STY3981	77	STY3909	99.8	STY3981
ATGCGTT +	STY1687	100	STY0567	62.857	STY1687	99.5	STY0567
ATGCAAG -	STY2160	100	STY0487	64.762	STY2160	99.3	STY0867
ATGATGC -	STY1389	100	STY0642	76.238	STY1389	98.5	STY2682
ATGAAGC -	STY2831	100			STY2831	98.6	
ATGGCTG -	STY0773	100	STY0401	61.905	STY0773	99.4	STY0401
ATGAATA -	STY1270	100	STY4295	64.486	STY1270	98.8	STY4295
ATGAAAG +	STY3710	100	STY2459	67	STY3710	96	STY2459
ATGACAG -	STY3467	100	STY4353	81	STY3467	97.9	STY3739
ATGGAAA +	STY2246	99	STY2473	53.465	STY2246	97.5	STY2473
ATGACTA -	STY4793	100	STY1503	64	STY4793	97.84	STY0439
ATGGTAG -	STY1726	100			STY1726	98.9	
ATGACGC +	STY1233	100	STY0921	61	STY1233	99.1	STY3334
ATGTTTA -	STY1346	100	STY0980	56.863	STY1346	99.5	STY0980
ATGAGCA -	STY3535	100	STY2678	64.151	STY3535	99.7	STY2678
ATGGTTG +	STY4073	100			STY4073	98.1	
	STY2073	79	STY0029	57.282	STY2073	26.97	STY0029
ATGAAAA +	STY1180	100	HCM2.006	63.303	STY1180	99.8	HCM2.006
ATGACAA -	STY3580	100	STY2663	61	STY3580	98.9	STY2663
ATGAGCA +	STY2860	100	STY0958	57.843	STY2860	99.7	STY3648
ATGATTC -	STY3630	100	STY2527	64.356	STY3630	98.3	STY2527
ATGTTAC -	STY3651	100	STY1921	52	STY3651	99.1	STY1921
GTGTATG +	STY1220	100	STY1761	61.321	STY1220	99.2	STY1761
GTGGACC -	STY4319	100	STY2318	66.667	STY4319	97.7	STY2318
ATGACCA -	STY3143	100	STY2817	63.208	STY3143	99.9	STY2817
ATGGCTG +	STY3389	100	STY3214	52	STY3389	99.4	STY3214
ATGTCAC -	STY0466	100	STY2584	64.486	STY0466	99	STY2479

ATGGCTT +	STY3841	100	STY1567	64	STY3841	98.3	STY0963
GTGATTG -	STY0866	100	STY0924	80	STY0866	99.4	STY0707
ATGGAAC +	STY3578	100	STY3164	69.307	STY3578	99.4	STY3164
GTGGCAC -	STY2123	100	STY0310	68.627	STY2123	99.34	STY0310
ATGGACA +	STY0998	100	STY4170	89.109	STY0998	99.4	STY4170
ATGTTAG -	STY4119	100	STY0118	84	STY4119	97.6	STY0118
ATGCGTG +	STY0197	100	STY2644	64.078	STY0197	97.96	STY2644
ATGTCCT +	STY0653	100	STY0440	69	STY0653	99.1	STY0440
ATGGCGA +	STY3155	100	STY2425	78.218	STY3155	99.3	STY2425
ATGAAAA +	STY3837	100	STY3836	66	STY3837	99	STY3836
ATGATTG +	STY2101	100	STY0715	63.462	STY2101	98.5	STY2986
ATGATCC +	STY1504	100	STY1974	93	STY1504	98.4	STY1974
ATGAAAA -	STY1487	100	STY1289	90	STY1487	98.4	STY1289
ATGATAC -	STY1485	100	STY1291	77	STY1485	99.4	STY1291
ATGCTTT -	STY0370	100	STY4228	59.615	STY0370	98.3	STY4228
ATGACAA -	STY1312	100	STY0847	90	STY1312	99.4	STY0847
ATGTCTC +	STY1928	100	STY4715	64	STY1928	98.4	STY2645
ATGACAG -	STY1978	100	STY3563	64.078	STY1978	99.5	STY1488
ATGATTA(-	STY2099	100	STY4318	61.321	STY2099	95.33	STY4318
ATGTTCA(-	STY1401	100	STY1860	62	STY1401	98.9	STY1860
ATGGAAC -	STY0523	100	STY4020	79	STY0523	87.77	STY4020
ATGGAAA +	STY0661	100	STY4508	70	STY0661	98.7	STY4508
	STY4012	73	STY2809	66.019	STY4012	16	STY1370
ATGTTTC -	STY0635	100	STY0565	66.055	STY0635	99.2	STY1770
ATGAATG +	STY0374	100	STY0377	67.327	STY0374	93.58	STY0377
ATGGCGC -	STY0673	100	STY0067	83.168	STY0673	94.31	STY0067
	STY4263	62.376			STY4263	7.8	
ATGTTGG +	STY1921	100	STY0787	83	STY1921	98.9	STY0787
	STY4813	60.784	STY2275	58.182	STY2275	19.81	STY4813
ATGGCGC -	STY2094	100			STY2094	98.4	
	STY0727	58.095			STY0727	10.55	
	STY3817	63.462	STY2620	62.136	STY3817	38.73	STY4123
ATGGACC +	STY2878	100	STY3943	66.055	STY2878	96.56	STY0853
ATGTCTG -	STY3227	100			STY3227	99.3	
ATGACCA +	STY0448	100	STY0526	63	STY0448	98.4	STY2034
ATGCGTT -	STY3325	100	STY4892	89	STY3325	98.5	STY4892
ATGATCG +	STY2953	100	STY3067	72.816	STY2953	98.4	STY3067
ATGGCAC +	STY0286	100	STY0287	100	STY0286	58.03	STY0287
ATGAGCA +	STY4887	100	STY2431	57.843	STY4887	98	STY2431
ATGCTAA +	STY3118	100	STY2586	66.019	STY3118	98.3	STY2586
	STY2884	92	STY3700	92	STY2884	50.56	STY3700
ATGGAGA -	STY0419	100	STY2331	59.804	STY0419	99.4	STY2331
ATGATGT -	STY0481	100	STY1965	75	STY0481	98.5	STY1965
GTGATTG -	STY3145	100	STY4688	61.905	STY3145	100	STY4688
ATGTTTG +	STY4784	100	STY4772	73	STY4784	99.3	STY4772
ATGCTAA -	STY1558	100	STY1670	61.111	STY1558	97.9	STY3424
GTGGATT +	STY3649	100	STY3749	69	STY3649	94.1	STY3158
ATGAGTG +	STY2960	100	STY3494	75	STY2960	99.5	STY3494
	STY4270	80	STY4182	56	STY4270	21	STY4182
ATAGGCC -	STY0384	100	STY0385	68	STY0384	33.65	STY3577
ATGAGTG -	STY2949	100	STY4405	86	STY2949	92.22	STY0826
ATGATCA(-	STY2425	100	STY3155	78.218	STY2425	98.8	STY3155

ATGAGTC -	STY2463	100	STY3342	65.094	STY2463	99.1	STY3342
ATAGCTA +	STY2369	100	STY3937	61	STY2369	98.1	STY3937
ATGAATC -	STY2402	100	STY0824	61.765	STY2402	99.4	STY0824
ATGAAAA -	STY2439	100	STY3925	80	STY2439	99.1	STY3925
ATGAAAA +	STY2371	100	STY2657	65	STY2371	99	STY3268
ATGACTC -	STY2405	100	STY0717	55	STY2405	99.3	STY0717
ATGAAGC -	STY4127	100	STY1750	65.347	STY4127	99.6	STY1409
ATGCAGT +	STY0926	100			STY0926	99.4	
ATGAGCG +	STY4726	100	STY3958	63.107	STY4726	98.9	STY3958
ATGCGTT +	STY4347	100	STY1865	66.981	STY4347	98.4	STY1865
TTGTTTG +	STY4719	100	STY0996	72	STY4719	99.5	STY0996
ATGGCAA -	STY3460	100	STY2145	64	STY3460	97.3	STY2145
ATGACCC +	STY4930	100	STY0455	63	STY4930	97.9	STY0455
ATGTACG -	STY2946	100	STY2564	61	STY2946	99.5	STY1789
ATGACGA +	STY2449	100	STY1470	58.416	STY2449	98.9	STY1470
ATGATGA +	STY3267	100	STY1927	61	STY3267	99.4	STY1927
ATGATTC +	STY3217	100	STY0013	58.416	STY3217	88.1	STY0013
ATGAGCG +	STY0797	100	STY3049	61.386	STY0797	96.6	STY4166
ATGGCAT +	STYrarB	100	STY0577	64.356	STYrarB	99	STY2841
GTGAAAC -	STY3198	100	STY3763	63.107	STY3198	99	STY3763
ATGAAGG +	STY3450	100			STY3450	99.3	
ATGCACG +	STY0840	100	STY3722	75.962	STY0840	99.8	STY3722
ATGAGTA -	STY0891	100	STY3132	78	STY0891	99.5	STY0716
ATGACGC +	STY1737	100	STY2546	64.078	STY1737	98.5	STY1623
GTGAGCA +	STY3411	100			STY3411	100	
	STY2167	100	STY4190	56.731	STY2167	73.3	STY4190
TTGGCGC +	STY3231	100	STY3379	63.107	STY3231	94.53	STY3379
ATGACCC -	STY0882	100	STY3423	64	STY0882	98.2	STY3423
ATGGCTG -	STY0410	100	STY4811	60.952	STY0410	99	STY4811
ATGATGA +	STY0488	100	HCM2.009	88	STY0488	100	STY1505
	STY3132	64.706	STY2023	62.5	STY4050	2.98	STY3132
	STY2881	78	STY3703	78	STY4600	68	STY2881
	STY0831	61.386	STY4768	58.095	STY0831	17.69	STY4768
ATGATGA +	STY4695	98	STY2804	59.615	STY4695	73.98	STY2804
	STY4386	58.654	STY1855	55	STY4386	53.8	STY1855
ATGCTTG -	STY4683	100	STY0308	60.396	STY4683	99.4	STY0308
ATGATTA -	STY4700	100	STY2405	56.311	STY4700	99.2	STY2405
ATGTCAT -	STY3022	100	STY1704	59.434	STY3022	99.8	STY1704
ATGATGA +	STY1905	100	STY2569	60.396	STY1905	98.5	STY0522
ATGACGT -	STY4614	100	STY3688	88	STY4614	90.6	STY3688
GTGACAA -	STY2319	100	STY3413	54.369	STY2319	99.1	STY3413
ATGCCGC -	STY4198	100			STY4198	99.4	
ATGGCAC -	STY3482	100	STY0112	55.446	STY3482	100	STY0112
ATGAGCA +	STY3266	100	STY4252	46.226	STY3266	99.3	STY4252
ATGGCAC -	STY3208	100	STY1410	60.577	STY3208	93.58	STY1410
ATGTCCA +	STY2096	100	STY1744	76	STY2096	98.6	STY1744
ATGAAAA +	STY1425	100	STY4103	62.857	STY1425	98.5	STY4103
ATGAAAA +	STY3542	99	STY0860	69.231	STY3542	98.1	STY3543
ATGGAAA -	STY2264	100			STY2264	100	
ATGGATC +	STY0320	100	STY4030	65.347	STY0320	99.3	STY0612
GTGCCTC -	STY2662	100			STY2662	98.7	
	STY2359	45			STY2359	3.01	

ATGAAAA-	STY2730	99	STY0573	71	STY2730	90.37	STY0573
ATGGAAA-	STY2763a	100			STY2763a	97.7	
ATGATCG-	STY2611	100	STY2891	63.208	STY2611	99.6	STY2891
ATGATCT-	STY2638	100	STY4173	65.347	STY2638	99.6	STY4173
ATGCCGT+	STY1282	100	STY0242	55.769	STY1282	99.1	STY0242
ATGCATA-	STY0686	100			STY0686	98.8	
ATGAAAA+	STY0726	100	STY0367	67.327	STY0726	99.1	STY0667
ATGAAAA-	STY2596	100	STY0635	62.5	STY2596	99.1	STY0635
	STY2393	62.5			STY2393	10.72	
	STY0347	60.784	STY1248	55.446	STY0347	30.8	STY1248
	STY3236	61.386	STY0689	41	STY3236	21.69	STY0689
	HCM2.005	52	STY2972	38	HCM2.005	9.5	STY2972
	STY0882	60.577	STY3563	60.194	STY0930	9.66	STY0882
	STY3474	63	STY4427	60.55	STY3474	39.39	STY4427
	STY3184	77.451	STY0084	60	STY3184	22.65	STY0084
	HCM1.273	41.026	STY0552	38.462	HCM1.273	41.05	STY0552
	STY4561	66			STY4561	40.53	
ATGCCTA+	STY0519	100	STY2719	86	STY0519	98.9	STY3570
	STY0523	100	STY4020	75	STY0523	79.62	STY4020
	STY0569	96	STY4523	59	STY0569	84.44	STY4693
TGGCCGT-	STY0602a	99	STY3273	61.905	STY0602a	97.74	STY2365
	STY0628	100	STY2894	71	STY0628	98.7	STY2894
	STY0670	100	STY0070	77	STY0670	99.1	STY0070
ATGATTA-	STY1498	100			STY1498	100	
ATGAATG-	STY1604	100	STY3457	58.824	STY1604	100	STY3457
ATGTCTG+	STY1620	100	STY0387	60.194	STY1620	100	STY1255
ATGGCAA+	STY1637	100	STY1642	98	STY1637	100	STY3691
ATGAGAC-	STY2004	100	STY0099	62.264	STY2004	100	STY2434
ATGATTA(-	STY2035	100	STY1052	94	STY2035	100	STY1052
ATGGCCA+	STY1614	100	STY0533	66.346	STY1614	100	STY0533
ATGTTTG(+	STY1630	100	STY2343	63.366	STY1630	100	STY3548
ATGAAAA+	STY1886	100			STY1886	97.47	
ATGGCTC+	STY1070	100	STY2016	100	STY1070	100	STY2016
ATGTTTC(+	STY2046	100	STY4838	53.922	STY2046	100	STY4838
ATGAAAA-	STY2062	100	STY1023	71	STY2062	100	STY1023
GTGATGA+	STY1624	100	STY4743	61.682	STY1624	100	STY4743
ATGCTTA+	STY1665	100	STY2258	60.194	STY1665	100	STY2258
ATGAGCA-	STY1071	100	STY2015	100	STY1071	100	STY2015
ATGACTT(-	STY2040	100	STY1047	98	STY2040	100	STY1047
ATGTGCG-	HCM1.194	100	HCM1.249	100	HCM1.194	100	HCM1.249
ATGATTA(+	STY2072	100	STY2241	62	STY2072	100	STY0762
ATGAATG+	STY1742	100	STY2515	48	STY1742	100	STY2515
ATGCCGAT-	STY2017	100	STY1069	92	STY2017	100	STY1069
ATGCCAA-	STY2033	100	STY1054	96	STY2033	100	STY1054
ATGATAA(+	STY3278	100	STY1095	86	STY3278	100	STY0040
ATGAACG+	STY2074	100			STY2074	100	
TTGGTTA(-	STY2352	100	STY4879	65.094	STY2352	100	STY3957
ATGAATA+	STY4599	100	STY0920	63.81	STY4599	100	STY0920
	STY4639	100	STY3665	74	STY4639	100	STY3665
ATGAGTC+	STY4546	100	STY3674	63.107	STY4546	100	STY3674
ATGGCTA+	STY4565	100	STY1690	81	STY4565	100	STY4565
ATGTCAG+	STY4583	100	STY0649	73	STY4583	100	STY0649

ATGATGA -	STY4600	100	STY2881	75	STY4600	100	STY3703
ATGGGGC +	STY4834	100	STY4582	62.037	STY4834	100	STY4582
ATGTCGA +	STY4922	100	STY2572	54.902	STY4922	100	STY2572
GTGATGC +	STY4480	100	STY2473	70	STY4480	100	STY2473
GTGGCTC +	STY4543	100	STY0815	59	STY4543	100	STY4543
ATGTTGA +	STY4756	100	STY4755	69	STY4756	100	STY3614
ATGGCTG -	STY4835	100	STY0602a	66	STY4835	100	STY0602a
ATGACCA +	STY0194	100	STY4224	72	STY0194	97.8	STY4426
ATGGCGC +	STY0252	100			STY0252	99.4	
ATGATCG +	STY1550	100	STY3162	63	STY1550	99.6	STY2682
ATGAAGA -	STY4491	100	STY2904	71	STY4491	98.8	STY3354
ATGTTGA -	STY2633	100	STY1733	71	STY2633	98.6	STY3711
ATGCCTG +	STY3906	100			STY3906	99.7	
ATGTTCG +	STY3565	100	HCM1.42	59.615	STY3565	100	HCM1.42
ATGACGA +	STY2239	100	HCM1.15c	65.049	STY2239	98.3	STY2239
ATGATGA -	STY2221	100	STY1910	63.107	STY2221	98.9	STY3457
ATGAAAG +	STY0070	100	STY0670	87	STY0070	97.5	STY0670
ATGAATT +	STY3484	100	STY3941	59.434	STY3484	99.2	STY0880
	STY1590	64.078	STY1643	57.843	STY1590	12.97	STY1643
ATGGGGA -	STY0110	100	STY1227	62.136	STY0110	98.3	STY1227
ATGTCAG +	STY0175	100	STY3220	63.889	STY0175	98.7	STY3220
	STY2332	63	STY3918	58	STY2332	11.66	STY3918
ATGGCAT +	STY0230	100	STY0230	66.038	STY0230	98.7	STY0230
ATGATTG +	STY0265	100	STY4398	60.952	STY0265	99.3	STY4398
ATGACCA -	STY1536	100	STY1467	66.667	STY1536	75.02	STY4876
ATGCAAG -	STY0699	100	STY0055	62	STY0699	98.8	STY4784
	STY1320	50			STY1320	8.83	
GTGAAAA +	STY0756	100	STY3340	61.818	STY0756	100	STY3340
ATGTTGC +	STY4905	100	STY4599	44	STY4905	99.2	STY4599
GTGCTGC -	STY4620	100	STY3682	89	STY4620	90.41	STY3682
	STY4673	71	STY3485	66	STY4673	46.28	STY2605
GTGGGC +	STY4914	100	STY0143	60.194	STY4914	97.3	STY0143
GTGCAAT -	STY4941	100	STY0026	76	STY4941	98.58	STY3920
	STY4822	64.706	STY1911	59.804	STY1911	23.04	STY4822
	STY2248	71	STY2755	63.107	STY2248	56.4	STY2755
	STY2529	57	STY1981	52.427	STY2529	9.09	STY1981
ATGGCAG +	STY4690	100	STY4466	51	STY4690	98.7	STY4466
ATGCGTA -	STY0357	100	STY0438	59.804	STY0357	99.2	STY0438
	STY4577	63.462	HCM2.005:	61.165	HCM2.005:	40.03	STY4117
ATGATAG -	STY1102	100	STY2634	55	STY1102	100	STY2634
ATGTCGC +	STY1157	100	STY3368	80.189	STY1157	98.1	STY3368
ATGAAAA -	STY1194	100	STY1330	61	STY1194	98.8	STY1330
GTGGCAC +	STY1245	100	STY0144	60.194	STY1245	99.4	STY4136
ATGAAAA +	STY1104	100	STY0825	71	STY1104	98	STY0825
GTGAACC +	STY4397	99	STY2803	60.784	STY4397	97.3	STY2803
ATGGCAA +	STY4342	100	STY1384	61.386	STY4342	99.5	STY1384
ATGACAC -	STY4303	100	STY4606	67	STY4303	99.1	STY0215
GTGAGTA +	STY4270	100	STY3978	67	STY4270	95	STY3978
ATGAAAA +	STY0962	100	STY1565	84	STY0962	98.3	STY1565
ATGGAGC +	STY3865	100	STY3387	52.83	STY3865	97.4	STY3387
ATGTTGA -	STY3795	100	STY3230	93	STY3795	99.3	STY4406

	STY0883	69	STY2314	62.963	STY3222	13.15	STY0883
ATGTCGT +	STY2981	100	STY2809	74.257	STY2981	98.7	STY2809
GCGCAGC +	STY3042	100	STY0184	65.385	STY3042	52.32	STY0184
ATGGATC +	STY3759	100	STY0646	66.99	STY3759	99	STY0646
ATGAGTG -	STY2972	100	STY3608	65.385	STY2972	98.2	STY2552
TTGAAAA(-	STY3032	100	STY3031	98	STY3032	61.52	STY3031
	STY4014	59.048	STY3069	57.692	STY3069	30.02	STY4014
ATGTTCA +	STY2652	100	STY0651	63.107	STY2652	100	STY2653
GTGACGC +	STY2718	100	STY1286	65.714	STY2718	98.5	STY1286
	STY1115	84	STY1760	64.356	STY1115	74.71	STY1760
TTGTGCG +	STY3785	100	STY0190	62.745	STY3785	98.1	STY0190
	STY3925	69.903	STY2439	68	STY2439	46.65	STY3925
TTGATCC +	STY4486	100	STY4795	63.462	STY4486	98.2	STY4795
	STY0035	49			STY0035	15.55	
ATGCCTC -	STY2658	100	STY2122	59.406	STY2658	98.8	STY2122
ATGCTGA -	STY1862	100	STY1423	66.346	STY1862	97.5	STY0887
ATGTCTG -	STY1588	100	STY3710	62.136	STY1588	99.2	STY0644
	STY2756	100	STY2758	75	STY2756	85.47	STY2760
ATGAAAA +	STY0025	100	STY0592	75.728	STY0025	98.5	STY0592
ATGGCAA +	STY4729	100	STY2855	62.5	STY4729	98.6	STY2855
GTGCCAC +	STY4768	100	STY2938	63.107	STY4768	96.5	STY4489
ATGCGCA +	STY4775	100	STY2696	66.99	STY4775	96.62	STY2696
ATGAGTA -	STY2501	100	STY2520	66.337	STY2501	99.6	STY2520
	STY4012	60.55			STY4012	3.1	
ATGCAAC -	STY4874	100	STY0899	71	STY4874	98.8	STY0899
ATGACGA +	STY1170	100	STY4205	48	STY1170	98.83	STY4205
ATTAAAG(-	STY1777	100	STY0808	58.879	STY1777	99.5	STY0808
ATGGATA -	STY2587	100	STY0438	72.277	STY2587	90.68	STY0438
ATGCTGC -	STY1865	100	STY0888	57.143	STY1865	98.8	STY0888
	STY3088	73	STY3340	53.774	STY3088	53.42	STY3340
ATGACCA -	STY1190	100	STY2914	56	STY1190	99.5	STY2914
ATGGCCG +	STY1835	100			STY1835	98.7	
ATGAGTT +	STY1695	100	STY1343	61.682	STY1695	99.2	STY1343
ATGAAAT(-	STY1198	100			STY1198	98.8	
ATGCAAA +	STY1820	100	STY1935	63.366	STY1820	92.36	STY1935
ATGAAAA -	STY3883	100	STY4845	67	STY3883	98.7	STY4845
ATGAACA -	STY1802	100			STY1802	99.1	
	STY4888	64.078	STY4610	64	STY4610	17.9	STY3692
ATGGCAA -	STY1673	100	STY0181	61.905	STY1673	99.1	STY0181
ATGACAT -	STY1750	100	STY3124	71	STY1750	99.6	STY3124
ATGTTTT(+	STY1209	100	STY0851	65.686	STY1209	93.81	STY2479
ATGGAAA -	STY1704	99	STY1570	62.376	STY1704	97.9	STY1570
GTGCTCA +	STY3905	100			STY3905	98.45	
ATGATTA(-	STY2839	100	STY0973	85	STY2839	99.5	STY0973
ATGACCA +	STY0261	100	STY1250	63.725	STY0261	98.1	STY1250
ATGTTGA +	STY0439	100	STY1935	71.154	STY0439	97.5	STY1935
GTGTTAA +	STY4406	100	STY1281	62.5	STY4406	99	STY1281
ATGAAGA -	STY4471	100	STY0538	60.194	STY4471	99.4	STY0538
ATGACGC -	STY1808	100			STY1808	99	
ATGACCC -	STY1765	100	STY3762	69.231	STY1765	98.5	STY3762
ATGGTTC -	STY1683	100	STY0697	72.816	STY1683	98.8	STY0697
	HCM2.008	54.455	STY3555	53.333	HCM2.008	17.73	STY3555

GTGAAGA -	STY2307	100	STY3633	80	STY2307	99.2	STY3633
ATGAATC -	STY2817	100	STY3143	63.208	STY2817	98.2	STY3143
ATGCTCG +	STY0227	100	STY0122	63.81	STY0227	98.7	STY4056
ATGAACA +	STY0086	100	STY3896	63	STY0086	98.8	STY3896
ATGACGC +	STY0169	100			STY0169	99.28	
ATGCAGC +	STY4190	100	STY0801	61.905	STY4190	98.9	STY0801
ATGAAAC +	STY4280	100	STY3853	76	STY4280	98	STY2959
ATGACAT -	STY2535	100			STY2535	98.1	
ATGCAAT -	STY2765	100	STY0008	63.366	STY2765	99.1	STY0008
ATGCCGC -	STY0450	100	STY4174	85.149	STY0450	81.3	STY4174
ATGAAAA -	STY0606	100	STY2627b	84	STY0606	98.1	STY2627b
ATGGCTC -	STY4924	100	STY3467	61	STY4924	98.3	STY3467
ATGAACC +	STY4132	100	STY2965	71	STY4132	99.4	STY2965
ATGACGA +	STY4199	100	STY0960	64.706	STY4199	98.9	STY0960
ATGACCA +	STY4302	100	STY0157	59.406	STY4302	100	STY0157
ATGAGCA -	STY2520	100	STY2501	66.667	STY2520	99.8	STY2501
ATGACGC -	STY2738	100	STY4046	82	STY2738	99.3	STY4046
ATGTCGA +	STY2567	100	STY3424	72	STY2567	99.3	STY3424
ATGAAAA +	STY1023	100	STY2062	70	STY1023	99.6	STY2062
ATGAAAA +	STY0580	100	STY4804	69	STY0580	98.9	STY4804
ATGTTAA -	STY4766	100	STY3460	61	STY4766	99.2	STY2332
	STY2048	91	STY1725	62.617	STY2048	48.5	STY1725
ATGAGTA +	STY3356	100			STY3356	99.3	
ATGAAAA +	STY4312	100	STY4636	73	STY4312	99.6	STY1014
ATGTTCC -	STY2442	100	STY3438	69	STY2442	98.9	STY4111
ATGGCAT +	STY2507	100	HCM2.012	82	STY2507	98.5	HCM2.012
ATGCCTG -	STY2693	100			STY2693	98.5	
ATGAACA -	STY3790	100	STY3151	60.784	STY3790	98.7	STY3151
ATGGCCA -	STY0733	100	STY0655	88	STY0733	100	STY0655
ATGACTT +	STY1882	100	STY1412	85	STY1882	95.01	STY1412
ATGGATT -	STY3009	100			STY3009	99.2	
ATGAACG -	STY3884	100	STY1101	61.538	STY3884	99.3	STY1101
ATGGTCG +	STY0893	100	STY2696	68.224	STY0893	99.7	STY2696
ATGTCAG -	STY4333	100	STY2615	63.462	STY4333	98.6	STY2615
ATGGTTG -	STY4404	100	STY0564	67.647	STY4404	98.2	STY0564
GTGGAAT +	STY1388	100	STY0259	63.81	STY1388	99.3	STY3338
ATGGCAA +	STY4382	100	STY4715	63.107	STY4382	99.8	STY4715
ATGTTAA +	STY2414	100	STY3402	66	STY2414	99.5	STY3402
ATGTTTC -	STY1320	100	STY0544	63.107	STY1320	99	STY0544
GTGAGTT -	STY3712	100	STY0006	65.049	STY3712	99	STY1619
TTGCGCT -	STY2746	100	STY4323	48	STY2746	98.9	STY4323
ATGCTCA +	STY3144	100	STY2668	67.327	STY3144	99.01	STY2668
	STY3013	100	STY3014	100	STY3014	57.41	STY3013
ATGAGCA -	STY2271	100	STY1738	66.019	STY2271	98.9	STY0962
ATGAATG -	STY3544	100			STY3544	98.9	
ATGAATC -	STY0016	100	STY1889	71	STY0016	98.3	STY1889
ATGGAAT -	STY0609	99	STY0348	48	STY0609	98.4	STY0348
ATGAGTA +	STY0056	100	STY0063	60	STY0056	96.4	STY3380
ATGACAA +	STY0755	100	HCM1.63c	43	STY0755	99.2	HCM1.63c
ATGTCGC -	STY1398	100			STY1398	97.6	
ATGAGTC +	STY3860	100	STY3861	84	STY3860	98.8	STY3861
ATGACTG -	STY2649	100	STY3928	62.136	STY2649	99	STY3928

ATGGGCA-	STY2422	100	STY3896	74	STY2422	98.7	STY3896
ATGATTC(+)	STY1758	100	STY2697	92	STY1758	98.6	STY1520
ATGAAAA+	STY1289	100	STY1487	89	STY1289	97.7	STY1487
GTGAGTG+	STY1926	100	STY1676	65	STY1926	98.1	STY1239
ATGCGTT-	STY3165	100	STY0026	65.049	STY3165	97.7	STY0950
ATGAGTT(-)	STY3100	100	STY4097	75	STY3100	99	STY4097
ATGCACT+	STY3151	100	STY0460	59.259	STY3151	98.8	STY0460
ATGGAAT-	STY3576	100	STY3214	62.617	STY3576	98.9	STY3214
ATGAAAA+	STY4271	100	STY2587	69.307	STY4271	99	STY2587
ATGAAGA+	STY0107	100	STY1819	74.312	STY0107	99.1	STY1819
ATGAAAC-	STY3633	100	STY2307	80	STY3633	99.3	STY2307
ATGACGA-	STY3654	100	STY4776	62.617	STY3654	98.9	STY4776
ATGGCTG+	STY1298	100	STY2308	77	STY1298	99.7	STY2308
ATGGTTT(+)	STY3732	100	STY0655	66.355	STY3732	99.2	STY2616
ATGTCCC+	STY1937	100	STY1850	62.136	STY1937	99.4	STY1914
ATGGCAA-	STY0120	100	STY2477	62.963	STY0120	97.7	STY2477
ATGTTGA+	STY1305	100	STY4169	67.619	STY1305	99.1	STY0889
ATGAAAT(-)	STY2396	100	STY4134	62.857	STY2396	99	STY4134
	STY3579	100	STY3771	79	STY3579	98.5	STY3771
ATGGCAA+	STY0641	100	STY4170	63.725	STY0641	98.1	STY4170
ATGCTTT(+)	STY1341	100			STY1341	100	
GTGTCTC-	STY1295	100	STY4292	59.406	STY1295	99.3	STY4292
	STY1018	63.551	STY1238	61.468	STY1018	31.37	STY4796
ATGGCAA+	STY1442	100	STY1187	70.297	STY1442	98.8	STY1187
ATGTTGA+	STY1408	100	STY4234	82	STY1408	98.6	STY4892
TTGGCTA-	STY1392	100			STY1392	98.1	
ATGAAGC+	STY0534	100	STY0975	61.765	STY0534	99.2	STY0975
ATGATTT(-)	STY0671	100	STY0069	79	STY0671	99.1	STY0069
ATGAAAA(+)	STY4043	100	STY0171	73	STY4043	98.8	STY0171
ATGAAAC-	STY1484	100	STY3380	85	STY1484	99.2	HCM2.003
GTGGAAT+	STY1334	100	STY4304	64.078	STY1334	99.8	STY4304
ATGCGTA+	STY1457	100	STY1778	58.824	STY1457	97.2	STY2240
ATGAAAA+	STY1502	100	STY0266	64.078	STY1502	98.5	STY1471
ATGGTTG-	STY1472	100			STY1472	88.96	
ATGGACA-	STY1445	100	STY3236	62	STY1445	97.3	STY3236
ATGACGC+	STY2089	100	STY4777	62.857	STY2089	99	STY4777
ATGGAAC-	STY1351	100	STY2801	50	STY1351	91.54	STY2801
ATGTTGG+	STY1343	100	STY4291	62.376	STY1343	99.4	STY4291
ATGTTTG(-)	STY2864	100	STY4240	90	STY2864	98.5	STY4240
ATGAACA-	STY3179	100	STY0409	51.852	STY3179	99.1	STY0409
	STY1555	63	STY1520	62	STY1520	34.54	STY3444
ATGAGCG-	STY0472	100	STY2985	70.874	STY0472	98.8	STY2182
ATGGCCC+	STY0499	100	STY3597	68.317	STY0499	99.4	STY3597
	STY4500	67	STY4684	67	STY4684	21.01	STY4500
ATGCAGC-	STY3206	100	STY4805	60	STY3206	98.7	STY4805
ATGTCAT(-)	STY4111	100	STY2442	65	STY4111	97.6	STY2442
GTGTATC-	STY4007	99	STY3236	61.165	STY4007	92.25	STY3236
ATGAAAA+	STY3116	100			STY3116	95.91	
ATGACAG-	STY3172	100	STY4319	62.376	STY3172	98.3	STY4319
ATGAATA(-)	STY3313	100	STY0539	53.774	STY3313	98.6	STY0539
ATGCTCA-	STY4200	100	STY1924	77	STY4200	98.9	STY1924
ATGGCTA+	STY3257	100	STY3877	59.804	STY3257	98.6	STY3877

GTGATTG -	STY4103	100	STY0068	64.423	STY4103	99.1	STY0174
ATGTCTT +	STY4003	100	STY3435	59.804	STY4003	99.1	STY3435
ATGACTA -	STY2855	100	STY2854	57	STY2855	98.3	STY2854
ATGGCGC +	STY2390	100	STY1730	74.257	STY2390	99.5	STY1730
ATGGATA -	STY2291	100	STY1499	65.686	STY2291	99.2	STY1499
ATGCTGG -	STY2327	100	STY4398	76	STY2327	99.6	STY4398
ATGCTTA +	STY2400	100	STY4021	59	STY2400	98.9	STY4021
ATGTTCG +	STY4393	100	STY1134	89	STY4393	99.8	STY4333
ATGATGG -	STY4196	100	STY1386	63.725	STY4196	97.7	STY1386
ATGGCGC -	STY1941	100	STY3163	55	STY1941	99.1	STY3163
ATGAAGC -	STY4156	100	STY2601	66	STY4156	98.9	STY2601
ATGAACA -	STY4262	100			STY4262	99.2	
ATGAGCA -	STY3505	100	STY1901	59.406	STY3505	98.4	STY4303
ATGCAGC +	STY4818	100	STY2479	61.765	STY4818	98.7	STY2479
GTGCAAC -	STY4681	100	STY2096	61.538	STY4681	99.5	STY2096
ATGACGC -	STY3488	100			STY3488	99.7	
ATGCACA -	STY3427	100	STY3652	66	STY3427	98.8	STY3652
ATGCGGA -	STY3317	100	STY2868	62.745	STY3317	98.6	STY1527
ATGAATC +	STY2956	100	STY1234	60	STY2956	99	STY2401
	STY4821	66	STY4803	59.615	STY4821	40.02	STY3992
GTGAAAT -	STY2429	100	STY3583	58.416	STY2429	88.49	STY3583
ATGAGTA +	STY2432	100	STY3994	67.327	STY2432	99.5	STY3994
	STY2501	62.857	STY4307	62.5	STY4307	29.75	STY2468
ATGAGCA -	STY2441	100	STY1785	66.337	STY2441	99.6	STY1785
ATGGCTA +	STY4394	100	STY2684	61.165	STY4394	98.9	STY4936
ATGGGTC +	STY4364	100	STY4750	68.868	STY4364	100	STY4750
ATGCTGA -	STY3182	100	STY4047	59.223	STY3182	97.7	STY4047
ATGAGTC +	STY0907	100	STY2644	64.151	STY0907	98.9	STY2644
ATGACCT +	STY3377	100			STY3377	98.7	
ATGCCTG +	STY3244	100	STY3160	77	STY3244	99.5	STY3160
ATGATGA +	STY1101	100	STY2869	65.686	STY1101	98.8	STY2869
ATGTCGC +	STY0838	99	STY4428	63	STY0838	97.7	STY4428
ATGCTTA +	STY0889	100	STY4169	66	STY0889	98.58	STY1305
ATGCAAA -	STY1121	100	STY4444	54.369	STY1121	98.5	STY1864
GTGACTG +	STY0791	100	STY3332	70.874	STY0791	99.3	STY3332
ATGGCTC +	STY0827	100	STY3747	65	STY0827	99.3	STY4091
ATGACGA -	STY0880	100	STY0779	68.932	STY0880	98.4	STY0779
ATGAGCC +	STY3511	100	STY2717	80	STY3511	98.7	STY2717
ATGCCAA -	STY4030	100	STY2755	64	STY4030	98.1	STY2755
ATGACAA +	STY2853	100	STY4491	64.078	STY2853	100	STY3500
ATGCAAG -	STY2619	100	HCM2.010	53	STY2619	99.2	HCM2.010
ATGATGA +	STY4436	100	STY1356	54.369	STY4436	100	STY1356
ATGCAGG +	STY4383	100	STY1760	75.728	STY4383	99.9	STY1760
ATGCGCC -	STY1369	100	STY4168	63.725	STY1369	98.5	STY4168
ATGAAGC +	STY0506	100	STY2808	85	STY0506	100	STY2808
GTGAACC +	STY3832	100	STY1400	63	STY3832	91.55	STY4716
ATGAAAA +	STY0761	100	STY0322	57.282	STY0761	99.5	STY0322
ATGGAGA +	STY3739a	100	STY4881	64.486	STY3739a	99.4	STY4881
	STY0214	62.5	STY2625	60.377	STY2625	19.88	STY0214
	STY1816	58.416	STY3628	58.252	STY3628	36.75	STY1816
	STY2627a	75	STY0607	70	STY0607	67.2	STY2627a
	STY4627	100	STY3675	99	STY4627	95.2	STY3675

ATGGCGC-	STY2088	100	STY2037	72.549	STY2088	99	STY2595
	STY4618	96	STY3684	93	STY4618	50.51	STY3684
	STY4633	95	STY3669	86	STY4633	83.08	STY3669
ATGTCTT-	STY3782	100	STY0474	59.223	STY3782	99.2	STY0474
ATGGGTA-	STY3056	100	STY3115	57.547	STY3056	99.7	STY3115
ATGAACC+	STY1746	99	STY1745	90	STY1746	96.3	STY1745
GTGATAT.-	STY1756	100	STY1385	42	STY1756	98.7	STY1385
ATGCCTA-	STY1675	100	STY3765	63.725	STY1675	76.04	STY3765
ATGTTCG-	STY1077	98	STY1883	74	STY1077	96.9	STY1883
ATGGAAG-	STY2701	100	STY4439	59.804	STY2701	99.7	STY4439
ATGGATT.+	STY0182	100	STY4134	67	STY0182	97.2	STY4134
ATGGCTC+	STY4408	96			STY4408	96.1	
ATGGAAT+	STY1988	99	STY2422	62.376	STY1988	97.7	STY2422
ATGACTA+	STY1962	100	STY4421	59	STY1962	96.85	STY1226
GTGAATA-	STY2081	100	STY3199	58.095	STY2081	98.4	STY3199
ATGAATC+	STY1043	100	STY0753	62.376	STY1043	90.31	STY4816
ATGATTA/+	STY2135	100	STY2659	57.426	STY2135	100	STY1176
	STY1654	57.843			STY1654	19.1	
	STY1553	59.615			STY1553	4.65	
	STY3047	63.107	STY3383	62.5	STY3383	21.1	STY3047
	STY1921	62.264	STY0758	57.009	STY1921	49.98	STY0758
	STY4077	61.765	STY4171	40	STY4077	23.78	STY4171
	STY1620	60.396	STY1159	59.615	STY1159	37.99	STY1620
	STY0976	60			STY0976	10.52	
	STY2277	58.095			STY2277	16.82	
	STY2489	51.961	STY4037	46.078	STY2489	16.88	STY4037
	STY3231	38.835			STY3231	13.61	
	STY0688	100	STY0896	74	STY0688	99.2	STY0896
	STY2463	61.165	STY3593	58.416	STY2463	28.78	STY3593
	STY0786	100	STY1919	76	STY0786	98.7	STY1919
	STY3977	58.824			STY3977	43.72	
	STY1700	60	STY2711	52	STY1700	44.67	STY2711
	STY2839	100	STY3739	59.434	STY2839	100	STY3739
ATGACAC+	STY3071	100			STY3071	100	
ATGGCAA-	STY2060	100			STY2060	100	
ATGAATC+	STY2076	100	STY3438	55	STY2076	100	STY3438
ATGAAGA+	STY3677	100	STY4625	98	STY3677	100	STY4625
ATGCAGA-	STY3693	100	STY2463	58.416	STY3693	100	STY2463
TTGAACC+	STY3949	100	STY3761	63	STY3949	100	STY3761
ATGGATT.-	STY3344	100	STY1204	61.321	STY3344	100	STY1204
ATGTATG+	STY3663	100	STY3487	50	STY3663	100	STY3487
GTGGCG/+	STY3679	100	STY4623	94	STY3679	100	STY4623
	STY2888	100	STY3696	100	STY2888	100	STY3696
ATGTTTG/-	STY4036	100			STY4036	100	
ATGAAAA/-	STY1555	100	STY1520	60	STY1555	100	STY1520
ATGCTGG-	STY3645	100	STY3913	56.311	STY3645	100	STY3913
ATGACTA.+	STY3673	100	STY1241	53.922	STY3673	100	STY1241
ATGGCAC+	STY3689	100	STY4613	100	STY3689	100	STY4613
ATGAGTT+	STY3919	100	STY0372	65.049	STY3919	100	STY0592
ATGCCAT.+	STY0300	100	STY3821	61.111	STY0300	100	STY3821

ATGTATA(+	STY0346	100		STY0346	100
ATGAACA -	STY3675	100	STY4627	100	STY3675
GTGAATT -	STY2882	100	STY3702	100	STY2882
ATGCTGA -	STY3069	100	STY1231	62.5	STY3069
ATGATAA,+	STY0306	100	STY1378	62	STY0306
ATGAGTA +	STY0348	100	STY3744	89.109	STY0348
ATGACAC -	STY1016	100	STY1016	66.667	STY1016
	STY4142	100			STY4142
ATGAATC(-	STY4412	100	STY0186	74	STY4412
ATGTAA(+	STY4547	100			STY4547
ATGAGGA -	STY4823	100	STY1009	59.615	STY4823
ATGGCGT +	STY4843	100	STY3047	62.037	STY4843
ATGCAAA +	STY4143	100	STY0736	64	STY4143
ATGAACG +	STY4588	100	STY2592	63.366	STY4588
ATGTATA(-	STY4207	100	HCM1.169	52	STY4207
TTGGGTC -	STY4512	100	STY2317	58.252	STY4512
ATGCCAG +	STY4667	100	STY4517	92	STY4667
GTGAGTT -	STY4810	100	STY2933	62.264	STY4810
ATGTATA(+	STY4837	100	STY4841	64.078	STY4837
ATGACAA -	STY3551	100	STY1981	65.049	STY3551
	STY0317	64.151	STY4890	58.824	STY4890
ATGGTTG -	STY0729	100	STY4849	61.682	STY0729
ATGAAAA,+	STY3956	100	STY4158	72	STY3956
	STY3820	71.569	STY4126	64	STY3820
ATGCTTG -	STY2223	100	STY0467	64	STY2223
ATGAATT -	STY3944	100	STY2510	60	STY3944
ATGAAAG +	STY3926	100	STY4130	56.311	STY3926
ATGCTGG +	STY3995	100	STY2637	66.019	STY3995
ATGCCGC +	STY0089	100	STY3244	62	STY0089
ATGAATA(+	STY0149	100	STY3971	60.784	STY0149
GTGGAG(+	STY0185	100	STY0106	67	STY0185
ATGATGG +	STY0140	100			STY0140
ATGAAAA(-	STY3525	100	STY3017	59.223	STY3525
ATGTTGG +	STY3560	100	STY4489	61	STY3560
ATGGCGT +	STY0695	100	STY2282	58.824	STY0695
ATGATAA -	STY0710	100	STY0920	62.745	STY0710
ATGGCAA +	STY0736	100	STY0269	73	STY0736
TTGACTA(+	STY0250	100			STY0250
ATGATGA +	STY1552	100	HCM2.009	66	STY1552
ATGATGA -	STY2308	100	STY1298	77	STY2308
GTGTTTA(+	STY2338	100	STY1961	62.963	STY2338
ATGACTA(+	STY0276	100	STY3338	68.317	STY0276
ATGAAAA(+	STY0335	99	STY3919	63	STY0335
ATGACAG +	STY2342	100	STY3889	71	STY2342
ATGAGCC -	STY4624	99	STY3678	95	STY4624
	STY4774	60.784	STY2955	60.396	STY2955
	STY0322	64.815	STY0762	59.048	STY0762
ATGGGAC -	STY2915	100	STY2806	52.381	STY2915
GTGGCG(-	STY1131	100			STY1131
	STY2629	60.194	STY0205	59.615	STY1720
	STY2906	100	STY3422	61.905	STY2906
	HCM1.57c	33			HCM1.57c

ATGAAAG +	STY4379	100	STY1533	53	STY4379	100	STY1533
ATGGTGC -	STY4331	100	STY0721	75.728	STY4331	99.7	STY0721
ATGGAAA +	STY4297	100	STY2973	64	STY4297	99.1	STY2973
ATGAAAA -	STY1126	100			STY1126	98.8	
ATGGAGC -	STY1163	100	STY2095	61.386	STY1163	99.7	STY2095
ATGATGG -	STY1199	100			STY1199	99.2	
ATGACAA +	STY1247	100	STY0456	61.321	STY1247	98.9	STY0456
ATGCTCA -	STY1893	100	STY2481	81	STY1893	97.7	STY2481
ATGTTTG +	STY1838	100	STY3518	61	STY1838	98.5	STY3518
ATGACGG +	STY0980	100			STY0980	99.1	
	STY1728	63.551	STY2222	62.376	STY1728	10.3	STY2222
	STY1629	70	STY0695	65.347	STY2479	9.79	STY3960
ATGGCAA -	STY4441	100	STY0619	60	STY4441	98.9	STY0619
ATGAGCC +	STY4481	100	STY3156	61.321	STY4481	98.6	STY3156
ATGACAG -	STY3053	100	STY3429	61.905	STY3053	99.3	HCM1.134
GTGAAGC +	STY4419	100	STY2555	63.81	STY4419	95.32	STY3472
ATGGATA -	STY4468	100	STY3150	66.346	STY4468	99.3	STY3749
ATGAAAC +	STY4506	100	STY2774	74	STY4506	98.23	STY1567
ATGAAAC -	STY2609	100	STY1236	72	STY2609	98.7	STY1236
ATGGGAC -	STY2672	100	STY1672	59.434	STY2672	98.3	STY1672
	STY1682	69	STY3068	61.905	STY1682	54.28	STY3068
ATGAGTA +	STY3843	100	STY2778	69.608	STY3843	98.7	STY2778
	STY1632	75.248	STY1333	47	STY1632	42.75	STY1333
ATGTCCG -	STY4431	100	STY1053	62.963	STY4431	98.5	STY1053
TTGACAG +	STY3037	100	STY0159	63.725	STY3037	98.4	STY0159
ATGGCGT -	STY3078	100			STY3078	97	
	STY3986	59.048	STY1231	52.941	STY3986	15.73	STY1231
ATGATGC -	STY1798	100	STY2396	61	STY1798	99.4	STY2396
ATGATCA -	STY2702	100	STY2568	68	STY2702	99	STY2568
ATGGAAT -	STY1272	100			STY1272	98.2	
ATGAATC +	STY1690	100	STY2450	61.165	STY1690	98.7	STY2450
ATGATAA +	STY2175	99	STY4835	59	STY2175	88.5	STY4835
ATGAAAA -	STY2482	100	STY2373	65.094	STY2482	100	STY4286
	STY0389	48			STY0389	5.21	
ATGAAAC +	STY4786	100	STY4018	64.423	STY4786	98.7	STY4018
ATGACCT -	STY2551	100	STY2974	63.725	STY2551	99.6	STY1664
ATGAGTA -	STY2578	100	STY3610	59	STY2578	98.6	STY3610
ATGACGG -	STY2163	100	STY3641	62.136	STY2163	99.3	STY3641
	STY3086	78	STY0026	72.115	STY3086	27.42	STY3176
ATGAGCT +	STY2136	100	STY4212	68	STY2136	92.08	STY4212
ATGGATA +	STY1807	100	STY0647	62.385	STY1807	99.2	STY0647
ATGTCTG -	STY1674	100			STY1674	98.2	
ATGAAAA -	STY3807	100	STY3800	92	STY3807	97.8	STY0858
ATGAACT +	STY2985	100	STY2986	65	STY2985	98.89	STY2986
GTGTCTA +	STY1670	100	STY4211	73	STY1670	99.2	STY4211
GTGCGAA +	STY2755	99	STY4318	75	STY2755	24.15	STY3447
ATGTCGC +	STY1764	100	STY0305	61.321	STY1764	99.5	STY0305
ATGAGCC +	STY1668	100	STY2962	60.784	STY1668	98	STY2962
ATGGCAA +	STY1692	100	STY3891	67	STY1692	99.3	STY3891
ATGTTAA -	STY1752	100	STY0811	68	STY1752	98.5	STY4426
ATGCTCA -	STY2990	100	STY2991	100	STY2990	53.01	STY2991
ATGTCCG +	STY1688	100	STY0070	57.426	STY1688	99.1	STY0070

ATGTTTT/-	STY1585	100	STY1584	57	STY1585	99.7	STY1584
	STY2297	86	STY2292	61.165	STY2297	64.75	STY4631
ATGGAAC +	STY3979	100	STY3708	59.406	STY3979	96.93	STY3122
ATGGCGA +	STY2840	100	STY2233	62.745	STY2840	99.4	STY2233
ATGGCGA +	STY0432	100	STY4294	71	STY0432	99	STY0743
ATGGCGT -	STY0272	100	STY0558	74	STY0272	98.7	STY0558
ATGAATG +	STY0117	100	STY2341	58.824	STY0117	99	STY2341
ATGAGTG -	STY0080	100	STY3577	69.608	STY0080	97.6	STY3577
ATGCAGG -	STY2158	100	STY1285	64	STY2158	98.8	STY1285
ATGCGTC +	STY1378	100	STY2809	70	STY1378	98.8	STY2591
ATGTCCG +	STY4249	100	STY0848	60	STY4249	98.9	STY1292
ATGCATC +	STY1574	100	STY1575	63	STY1574	99.3	STY0225
ATGGATA +	STY3989	100	STY3804	70	STY3989	99.3	STY3892
ATGTTGA +	STY0388	100	STY3311	61.538	STY0388	99.6	STY3311
ATGCAGC +	STY0455	100	STY0689	79	STY0455	98.6	STY0689
ATGTCAC +	STY4429	100	STY4094	57.692	STY4429	99.8	STY4094
GTGGCGC -	STY0112	100	STY2180	64.423	STY0112	98.7	STY3550
ATGACAG -	STY3421	100	STY4173	72	STY3421	94.22	STY4173
ATGACTA +	STY4315	100	STY2973	75	STY4315	98.2	STY2973
ATGCATT +	STY0378	100	STY0375	66	STY0378	98.6	STY0375
ATGGCGC -	STY2679	100	STY2680	70.192	STY2679	98.9	STY2680
ATGCCAG +	STY0553	100	STY1258	70.755	STY0553	99.6	STY0938
ATGTCGG -	STY0649	100	STY4583	72.549	STY0649	96.8	STY4583
ATGAGCC +	STY2844	100	STY0772	62.376	STY2844	98.7	STY0772
GTGAAGA +	STY3383	100	STY0503	61.905	STY3383	98.4	STY0503
ATGAAAG -	STY3430	100	STY3855	66.019	STY3430	98.53	STY3855
ATGACTG +	STY3459	100	STY4816	63.107	STY3459	97.01	STY4816
	STY3947	59	STY3179	57.282	STY3179	20.91	STY3947
ATGGCTT +	STY1021	100			STY1021	99.5	
ATGAGCC -	STY2774	100	STY4506	75	STY2774	98.4	STY4506
ATGACCC +	STY2793	100	STY2474	61.538	STY2793	98.3	STY2474
ATGAAGC -	STY0581	100			STY0581	99.3	
	STY0115	59.615			STY0115	15.85	
ATGACAA -	STY4904	100	STY0418	66.99	STY4904	98.8	STY2005
ATGAAAA +	STY4088	100	STY4088	59.615	STY4088	98.4	STY4088
ATGTTGT -	STY2583	100	STY0922	69.608	STY2583	99.3	STY0922
ATGGGTA +	STY0012	100	STY2785	68	STY0012	99.3	STY2785
ATGCAAA -	STY1328	100	STY2375	64.706	STY1328	98.8	STY2375
ATGGCAA +	STY2934	100	STY1266	68.317	STY2934	99.3	STY1573
ATGGATT -	STY3821	100	STY1168	65.049	STY3821	99.4	STY1168
ATGATCA -	STY0697	100	STY0611	65.686	STY0697	98.8	STY0611
ATGGCGC +	STY2699	100	STY0637	70.874	STY2699	98.5	STY0637
ATGAATA -	STY3749	100	STY3649	64.706	STY3749	99.5	STY4468
ATGCAGG -	STY0812	100			STY0812	99.4	
ATGACCT +	STY0802	100	STY1770	68.627	STY0802	98.5	STY0221
ATGAGCC +	STY2931	100			STY2931	98.1	
ATGGCGC -	STY1771	100	STY4311	66.019	STY1771	100	STY0493
ATGGATA +	STY3559	100	STY1266	62.963	STY3559	99.4	STY3504
ATGTTTA -	STY0062	100	STY0674	67	STY0062	96.28	STY0674
ATGATGT +	STY0043	100	STY3593	72	STY0043	99.7	STY3593
ATGGGAC -	STY1880	97	HCM2.010	50.495	STY1880	87.04	HCM2.010
ATGACAG +	STY2212	100	STY1980	82	STY2212	98.8	STY1980

ATGTCTG +	STY3910	100	STY0181	65.138	STY3910	100	STY4090
ATGCATC +	STY2254	100			STY2254	98.9	
ATGCATG +	STY4508	100	STY0661	62.5	STY4508	98.1	STY2773
GTGAATA +	STY2117	100	STY3755	61	STY2117	99.3	STY0721
ATGGAAC +	STY3547	100	STY0159	64	STY3547	99.5	STY3037
ATGAGCA +	STY4077	100	STY4078	62	STY4077	97.1	STY4078
ATGAGTA +	STY4689	100	STY1637	66.667	STY4689	99.7	STY1649
ATGAAAC -	STY1178	100	STY1060	60.194	STY1178	100	STY1060
ATGAGTC -	STY3853	100	STY4280	74	STY3853	99.3	STY4280
ATGAACA -	STY3715	100	STY0493	76	STY3715	100	STY0493
ATGAAGA -	STY2671	99			STY2671	98.8	
ATGGACA +	STY2249	100	STY2258	60	STY2249	90.94	STY2596
ATGATGA -	STY4495	100	STY0259	68.932	STY4495	99.2	STY3270
ATGGCGC -	STY3707	100	STY1288	59.048	STY3707	100	STY2074
ATGTACA +	STY2169	100	STY4498	50	STY2169	99.8	STY4498
ATGAAAT +	STY1337	100	STY3749	79.208	STY1337	99.4	STY4468
ATGCAAG +	STY4443	100	STY1930	69	STY4443	99	STY3763
ATGCAGC +	STY3500	100	STY2853	62.745	STY3500	98.3	STY2853
ATGAAAC +	STY0468	100	STY0101	63.208	STY0468	98.8	STY0101
ATGTTTG -	STY3583	100	STY4915	62.376	STY3583	98.7	STY4915
ATGTTGA -	STY3600	100	STY3511	62.376	STY3600	98.6	STY1851
ATGTTTT -	STY3617	100	STY3344	33	STY3617	99.2	STY3344
ATGTTCC +	STY4782	100	STY0886	56.863	STY4782	97.81	STY0886
ATGCCTG -	STY0006	100	STY1009	66.337	STY0006	98.8	STY1009
ATGATCG +	STY1221	100			STY1221	99.1	
ATGAGTG +	STY2177	100			STY2177	98.8	
ATGACGA -	STY3076	100	STY4013	60.194	STY3076	96.9	STY4013
ATGAAAA -	STY3138	100	STY0166	62	STY3138	99.2	STY4377
ATGTCTA +	STY3167	100	STY3426	65.094	STY3167	99.4	STY3109
ATGAAAT +	STY3781	100	STY4277	67.647	STY3781	99.8	STY2326
ATGACGC -	STY3587	100	STY1278	64	STY3587	99.3	STY1278
ATGCCGC +	STY1477	100	STY0003	64.078	STY1477	100	STY4275
ATGTTTA +	STY1518	100			STY1518	97.8	
GTGCCAG -	STY1494	100	STY0712	60.185	STY1494	99.5	STY0712
ATGTATC -	STY1942	100	STY1134	66	STY1942	99.1	STY1134
ATGGAAA +	STY1974	100	STY2342	88	STY1974	98.7	STY2342
ATGAATA +	STY2095	100	STY0883	66	STY2095	99.1	STY1163
ATGCTGA +	STY2110	100	STY0953	62.617	STY2110	98.6	STY0953
ATGAACT -	STY0552	100	STY0553	63	STY0552	93.86	STY4189
GTGGCGC +	STY0578	100	STY4111	76	STY0578	97.96	STY4111
	STY4203	62.745	STY4424	60.396	STY4424	15.53	STY4203
ATGAGCA -	STY1427	100	STY0429	69.307	STY1427	99.7	STY0429
ATGCTTA -	STY1513	100	STY0442	65.686	STY1513	97.7	STY0442
ATGAGCC +	STY1330	100			STY1330	99.8	
ATGTTTA -	STY1286	100	STY2718	65	STY1286	99.1	STY2718
ATGGTCA -	STY1934	100	STY1521	64	STY1934	99	STY0696
GTGGCTC +	STY1981	100	STY2338	64.151	STY1981	92.92	STY4389
ATGTCTT -	STY1399	99	STY3838	64.151	STY1399	97.7	STY2062
ATGCTGT -	STY0525	100	STY0460	61.165	STY0525	97.9	STY0460
GTGGCGC +	STY3340	100	STY0667	61.765	STY3340	96.35	STY0667
ATGGGAA +	STY2876	100	STY4193	63	STY2876	98.7	STY2938
ATGACCC -	STY4888	100	STY4889	74	STY4888	90.46	STY2448

ATGGAGA -	STY0425	100		STY0425	92.3		
ATGTTTA/ -	STY3295	100	STY0428	49.038	STY3295	99.5	STY0428
TTGAAAA +	STY2813	100	STY3240	93	STY2813	91.41	STY4157
ATGAAGT -	STY2903	100	STY2904	93	STY2903	95.27	STY0433
TTGATAA/ -	STY3335	100	STY3096	88	STY3335	99.3	STY0484
	STY0881	87	STY0900	76	STY0881	75.29	STY0900
ATGACAG +	STY3976	100	STY0043	70.588	STY3976	98.7	STY0043
ATGACGC +	STY2852	100	STY0499	54	STY2852	99.5	STY0499
ATGAGCA -	STY4611	99	STY1072	94	STY1072	27.39	STY2014
ATGAGCG +	STY2940	100	STY2343	76.238	STY2940	98.5	STY2255
ATGACGA +	STY2928	99	STY4776	84	STY2928	97.7	STY3549
ATGATAT +	STY4135	100	STY2972	63.462	STY4135	99.5	STY2972
ATGCTCG -	STY4070	100			STY4070	99	
ATGATTA(+	STY3110	100	STY1956	87	STY3110	98.3	STY1956
ATGTCGC -	STY3135	100	STY3400	61.538	STY3135	98.8	STY0690
ATGTTAA(+	STY2418	100	STY4284	58.654	STY2418	98.9	STY4284
ATGATTT +	STY2460	100			STY2460	99.9	
ATGCCTG +	STY2472	100	STY1285	69.307	STY2472	99.5	STY1285
ATGCGAA -	STY1950	100	STY4916	64.151	STY1950	99	STY4916
ATGAGCA +	STY4372	100	STY0024	64.356	STY4372	99.2	STY0024
ATGGGTA +	STY0942	100	STY4881	79.808	STY0942	99.7	STY4881
ATGAAAC -	STY0931	100	STY3656	65.686	STY0931	99	STY3656
ATGGCAG +	STY4361	100	STY0062	61.111	STY4361	99.9	STY0062
ATGACCC +	STY4705	100	STY0967	66.667	STY4705	99.5	STY0967
ATGCGTC +	STY4747	100	STY2522	67	STY4747	99.5	STY1676
ATGACGC -	STY3380	100	STY0156	65	STY3380	98.9	STY2781
ATGGATG -	STY3300	100	STY4865	70	STY3300	99	STY2168
ATGGATA +	STY4751	100			STY4751	99	
ATGAAAC +	STY4866	100	STY4784	60	STY4866	99.2	STY4784
ATGATAG -	STY4684	100	STY4500	67	STY4684	99	STY4500
TTGAAAC/ -	STY0407	100			STY0407	98.6	
ATGAACG +	STY2373	100	STY0758	65.714	STY2373	99	STY0758
ATGACAT(+	STY2455	100	STY0887	78	STY2455	99.4	STY4171
ATGCCAC +	STY2465	100	STY3539	55.14	STY2465	99.1	STY3539
ATGTTTT/ -	STY2323	100	STY1651	50	STY2323	98.8	STY1651
ATGAACC -	STY2399	100	STY2282	86	STY2399	98.8	STY2282
ATGACGC -	STY4109	100	STY1228	64.151	STY4109	98.6	STY4450
ATGACGC -	STY4195	100	STY3455	65.094	STY4195	99.5	STY1567
ATGATCC -	STY4285	100	STY2736	65	STY4285	99.8	STY2736
ATGATTA(+	STY3416	100	STY0887	57.426	STY3416	98.6	STY0887
ATGGAAA -	STY2097	100	STY0112	93	STY2097	98.3	STY0112
ATGAAGG -	STY1711	100	STY2992	55.769	STY1711	98.7	STY2992
ATGAAGT +	STY0760	100			STY0760	98.87	
ATGAAGT +	STY0849	100	STY4589	65.049	STY0849	98.5	STY4589
ATGTCAT +	STY1083	100	STY0879	70	STY1083	99.2	STY0879
	STY1579	60.577	STY4499	59.223	STY4499	29.98	STY2651
ATGGACA +	STY0841	100	HCM1.169	60.952	STY0841	98.2	STY0843
	STY0014	40			STY0014	7.74	
ATGGCTA +	STY1738	100	STY4503	69	STY1738	99	STY2271
ATGGCGC +	STY3410	100	STY1572	62.617	STY3410	99.7	STY4490
ATGAGTA -	STY4738	100	STY2323	65.686	STY4738	98.3	STY2323

	STY2359	52.885		STY2359	26.84		
ATGACAA -	STY1724	100	STY0716	52.475	STY1724	98.8	STY0716
ATGCGTT +	STY0411	100	STY1921	55	STY0411	97.7	STY1921
ATGAGTA -	STY2622	100	HCM2.005	63	STY2622	100	STY2723
GTGAAGA +	STY4325	98	STY2751	46	STY4325	97	STY2751
ATGAAAA -	STY2225	100	STY0913	62.857	STY2225	98.9	STY0913
ATGACTT +	STY0470	100	STY2439	58.491	STY0470	98.5	STY2439
ATGGCAC +	STY4749	100	STY0795	59.406	STY4749	99.1	STY0795
ATGAAAG +	STY4366	100	STY1460	60.714	STY4366	100	STY1460
ATGGCCA +	STY4788	100	STY4947	61.905	STY4788	99.6	STY3630
ATGAAAA +	STY0383	100			STY0383	98.9	
ATGATCA +	STY3248	100	STY2717	66	STY3248	98.4	STY2717
ATGCGTA -	STY1200	99	STY1032	64.078	STY1200	98.4	STY1032
TTGCAAA -	STY3029	98	STY3099	55.769	STY3029	95.4	STY3099
	STY0136	40.594			STY0136	14.19	
	STY1624	65	STY2489	59.223	STY1624	42.96	STY2489
ATGATCA -	STY4334	100	STY3948	60.577	STY4334	99.5	STY3948
ATGTCAT +	STY0490	100	STY0577	49.505	STY0490	99.8	STY0577
TTGTCTC +	STY1881	100	STY2281	60.784	STY1881	99.1	STY2514
GTGAGCA -	STY1824	100	STY1965	59.406	STY1824	99.5	STY1965
ATGACAA +	STY1821	100	STY4014	89	STY1821	98.8	STY4014
ATGAACA +	STY4908	100	STY4907	74	STY4908	98.9	STY4733
TTGGCTA -	STY3891	100	STY1692	67	STY3891	98	STY1692
ATGAAAA -	STY2079	100	STY1148	86	STY2079	98.6	STY1148
ATGAAAT +	STY4474	100	STY1006	50.98	STY4474	99.3	STY1006
ATGCCCT +	STY0770	99	STY3422	52.475	STY0770	97.1	STY3422
ATGCGCG +	STY2391	100	STY0820	59	STY2391	100	STY0820
GTGCCCA -	STY2559	100	STY1521	58	STY2559	100	STY3145
ATGAACA -	STY1938	100	STY1921	56.881	STY1938	99.4	STY1921
	STY2761	62.136			STY2761	18.06	
	STY0958	71.845	STY4451	64.356	STY0793	7.76	STY0958
	STY1761	61.386	STY0587	60.194	STY1761	29.11	STY0587
	STY3182	77	STY3183	74	STY3182	39.84	STY3183
	HCM2.001	60.396	STY2649	55	STY2649	11.85	HCM2.001
	STY0381	62.5	STY2971	59.804	STY2971	17.64	STY0381
	STY0793	63.393			STY0793	24.09	
	STY2248	41			STY2248	5.69	
	STY3917	60.784	STY2170	60.185	STY2170	4.14	STY3917
	STY2807	100	STY0750	84	STY2807	98.9	STY0750
ATGTCAG -	STY0739	100	STY3270	78	STY0739	99.39	STY3270
	STY1553	38			STY1553	30.91	
	STY0866	100	STY1258	84.466	STY0866	99.4	STY0553
	STY1728	28			STY1728	7.24	
	STY0896	100	STY0688	73	STY0896	98.5	STY0688
ATGCAGA -	STY2044	100	STY0412	63.063	STY2044	100	STY0412
TTGGAGC -	STY3292	100			STY3292	100	
ATGAGAC +	STY3661	100	STY3151	78	STY3661	100	STY0073
GTGGCTT -	HCM1.05c	100	HCM1.136	100	HCM1.205	100	HCM1.239
ATGAGTG +	STY2884	100	STY3700	100	STY2884	100	STY3700

TTGTTTG(-	STY0114	100	STY4178	61.765	STY0114	100	STY3706
ATGATTG(+	STY2070	100	STY2587	61	STY2070	100	STY2793
ATGACAG(+	STY2345	100	STY0124	49	STY2345	100	STY0124
	STY2717	100	STY3511	80	STY2717	100	STY3511
ATGAGCC(-	STY2886	100	STY3698	100	STY2886	100	STY3698
ATGAAGG(+	STY0159	100	STY3037	64	STY0159	100	STY0277
ATGGGTA(+	STY0313	100	STY0311	77	STY0313	100	STY0311
ATGAACA(+	STY2203	100	STY1649	89	STY2203	100	STY1649
ATGGGCC(-	STY2361	100	STY3220	51	STY2361	100	STY3220
ATGACAA(-	STY2879	100	STY4562	58.824	STY2879	100	STY4562
ATGAAGG(-	STY3067	100	STY1918	63.366	STY3067	100	STY2753
ATGATGA(-	STY1592	100	STY3382	58.416	STY1592	100	STY3382
ATGAACT(+	STY1609	100			STY1609	100	
ATGGCTG(-	STY2363	100	STY2275	59.406	STY2363	100	STY2275
ATGAACA(+	STY3762	100	STY3763	67	STY3762	100	STY2926
	STY4106	100	STY4824	63.81	STY4106	100	HCM2.001
ATGATTA(-	STY1594	100			STY1594	100	
GTGTGGC(+	STY1611	100	STY2966	68.317	STY1611	100	STY2966
GTGAGTC(+	STY1627	100	HCM2.009	64.706	STY1627	100	HCM2.009
	STY4616	100	STY3686	93	STY4616	100	STY3686
ATGGCTA(+	STY4523	100			STY4523	100	
ATGAAAC(+	STY4558	100	STY4741	63.208	STY4558	100	STY4769
ATGAAAC(+	STY4575	100	STY1004	57	STY4575	100	STY0205
ATGAACA(+	STY4592	100	STY3948	65.741	STY4592	100	STY3948
GTGAACA(-	STY4617	100	STY3685	92	STY4617	100	STY3685
ATGGTTC(+	STY4852	100	STY2758	56.311	STY4852	100	STY2758
	STY4626	100	STY3676	94	STY4626	100	STY3676
ATGGATA(+	STY4650	100	STY4856	87	STY4650	100	STY4856
GTGGAGT(+	STY4553	100	STY4800	61	STY4553	100	STY4800
GTGATGC(+	STY4572	100	STY2263	49.505	STY4572	100	STY2263
GTGTTAT(+	STY4589	100	STY4086	79	STY4589	100	STY4086
ATGATTC(-	STY0198	100			STY0198	98.7	
ATGCGTG(-	STY0271	100	STY1975	62.5	STY0271	99.3	STY4417
ATGAAAA(-	STY1532	100	STY1649	80	STY1532	37.19	STY1002
ATGAGTG(-	STY1332	100	HCM1.195	62.376	STY1332	99.2	HCM1.195
ATGGCTA(+	STY3928	100	STY1236	62.136	STY3928	97.5	STY0815
ATGACCA(+	STY3889	100	STY2342	72	STY3889	98.9	STY2342
GTGTCAT(+	STY4927	100	STY0197	73.267	STY4927	98.5	STY0197
GTGAATG(-	STY2231	100	STY1808	72	STY2231	98	STY1808
ATGGCAA(+	STY4350	100	STY2283	63	STY4350	100	STY2283
ATGAAAC(+	STY2688	100	STY3378	61.165	STY2688	96.9	STY4138
ATGGCAA(+	STY3498	100	STY0852	71.287	STY3498	99.2	STY1573
GTGAAAA(-	STY3538	100	STY0852	74	STY3538	99.7	STY0852
ATGGTCG(+	STY0155	100	STY3900	72.816	STY0155	85.71	STY0780
ATGTTAC(+	STY0190	100	STY2816	61.538	STY0190	99.3	STY3349
ATGCTAT(-	STY0212	100	STY0544	62.376	STY0212	98.3	STY0544
ATGCTGA(+	STY0246	100	STY4493	64.706	STY0246	99.6	STY4493
ATGACAC(-	STY1554	100	STY0235	60.577	STY1554	98.99	STY4194
ATGGCAT(+	STY1525	100	STY1914	80	STY1525	98.7	STY1914
	STY0815	63.107	STY2479	60.577	STY2479	7.29	STY3960
	STY0739	100	STY3270	80	STY0739	60.3	STY3270
	STY1961	66.337	STY4016	65	STY4016	49.02	STY1961

ATGTATT(-	STY2366	100	STY4859	62.136	STY2366	97.8	STY4859
	STY4636	94	STY3667	90	STY4636	80.5	STY3667
	STY0103	63.366			STY0103	8.41	
ATGCCTA +	STY4925	100	STY2431	82	STY4925	99	STY2431
ATGAAGG -	STY0281	100	STY1758	87	STY0281	99.6	STY1758
ATGTACC +	STY0355	100	STY3449	64.545	STY0355	99.5	STY3449
	STY0950	62	STY0159	58	STY0950	21.81	STY0277
ATGAGAG +	STY1094	100	STY0931	60.577	STY1094	99.2	STY0931
ATGGATA +	STY1572	100	STY1570	67.327	STY1572	98.9	STY1570
	STY0399	52.941	STY1965	46.078	STY0399	16.56	STY1965
GTGATGC +	STY1080	100	STY0190	62.037	STY1080	99.1	STY0190
ATGCTGA +	STY1667	100	STY4410	91	STY1667	98.9	STY4410
ATGAATG +	STY1174	100	STY0919	68.224	STY1174	100	STY0919
ATGCCCC -	STY1228	100	STY3551	63.107	STY1228	96.23	STY3551
	STY1255	100	STY1748	72.277	STY1255	80.72	STY1748
ATGACTG +	STY1663	100	HCM1.252	68	STY1663	99.7	HCM1.252
ATGGATA +	STY4374	100	STY0289	62	STY4374	99.7	STY0289
ATGGCAA +	STY4328	100	STY1811	81	STY4328	98.9	STY1811
ATGCAAT -	STY4291	100	STY1343	60	STY4291	99.1	STY3656
	STY2501	56	STY2509	54.808	STY2501	38.36	STY2509
ATGAGTG +	STY0994	100	STY1778	90	STY0994	99.4	STY1778
ATGAAGC +	STY3817	100	STY2875	94.059	STY3817	98.7	STY2875
ATGAAAG -	STY3765	100	STY0040	77	STY3765	98.2	STY0040
ATGAAAC -	STY3746	100			STY3746	98.3	
ATGATGT +	STY3027	100			STY3027	99.1	
	STY3067	75	STY2909	52	STY3067	41.92	STY2909
ATGTATC, +	STY3756	100	STY3825	68	STY3756	96.4	STY2241
	STY4554	55.882	STY3502	41.748	STY4554	6.25	STY3502
ATGGAGT -	STY3045	100			STY3045	99.3	
ATGAAGC -	STY2624	100	STY3022	55.882	STY2624	99.6	STY3022
	STY1043	66.019	STY3397	60.748	STY1043	33.49	STY3397
ATGCTCG -	STY2734	100	STY4440	67.29	STY2734	98.7	STY2560
ATGCCGC +	STY4403	100	STY3601	61.165	STY4403	97.29	STY3601
ATGACGC -	STY3769	100	STY3333	68	STY3769	98.5	STY3333
ATGAAAA, +	STY3753	100	STY2721	59.223	STY3753	99.3	STY2721
ATGAGCC -	STY3050	100	STY3194	76	STY3050	82.64	STY3194
ATGAACA -	STY2613	100	STY3263	60.194	STY2613	98.7	STY3052
ATGGGTA -	STY2682	100	STY3162	63.366	STY2682	99.1	STY1234
ATGCCCT -	STY2467	100	STY0833	68	STY2467	99.7	STY0833
ATGCATG -	STY1132	100	STY0159	58	STY1132	98.9	STY0159
ATGATAA, +	STY1813	100	STY0157	75	STY1813	98.1	STY0157
ATGAGTG +	STY4710	100			STY4710	98.9	
ATGTCAT +	STY4742	99	STY4121	67	STY4742	95.5	STY4121
	STY4479	62.264	HCM1.232	58.333	STY0565	22.23	HCM1.232
ATGCGCA -	STY2486	100	STY3900	59.223	STY2486	98.9	STY1752
	STY1234	63.725	STY3162	63.107	STY2401	43.7	STY1234
ATGATGG -	STY4856	100	STY4649	87	STY4856	98.52	STY4649
ATGTTAA, +	STY4892	100	STY2128	91	STY4892	98.9	STY2128
ATGATGG +	STY1261	100	STY4305	68.932	STY1261	86.34	STY4305
ATGAAGC -	STY1682	100			STY1682	98.9	
	STY1184	100	STY1185	100	STY1185	83.59	STY1184

ATGTTTG` -	STY4356	100	STY4304	85.149	STY4356	98.9	STY0304
ATGAAAC -	STY2705	100	STY2261	62	STY2705	99.6	STY2261
ATGATCG -	STY1263	100	STY0815	65	STY1263	99.2	STY0913
ATGGTAC +	STY1785	100	STY2441	66	STY1785	98.5	STY2441
ATGGCAT +	STY4727	100			STY4727	98.5	
ATGGGAC -	STY1266	100	STY0911	85	STY1266	99.1	STY4257
ATGAAAA +	STY0024	100	STY0589	75	STY0024	98.5	STY0589
ATGAGCA -	STY1817	100			STY1817	98.33	
ATGCCAA -	STY1776	100	STY2818	46.602	STY1776	99.5	STY2818
ATGTGGT -	STY1693	100	STY3415	66	STY1693	99	STY0562
ATGGAAA +	STY4252	100	STY0924	72	STY4252	98.36	STY3498
ATGTCGA -	STY0131	100	STY2610	63.303	STY0131	98.6	STY1278
ATGGCAC -	STY0727	100	STY2847	79	STY0727	99.2	STY4489
ATGATGA +	STY4427	100			STY4427	98.8	
ATGACAA -	STY3895	100	STY0507	63.551	STY3895	99.7	STY3794
ATGAAAA +	STY0225	100	STY1574	62	STY0225	99.2	STY1574
ATGATGG +	STY0494	100	STY0161	86.139	STY0494	99.3	STY0161
ATGAATT -	STY0441	100	STY2277	66	STY0441	99.7	STY2277
GTGAACA +	STY4438	100	STY4434	58	STY4438	99.4	STY4434
ATGACAG -	STY2603	100	STY4230	69.231	STY2603	99.3	STY4230
ATGTGGC +	STY1787	100	STY2980	63.725	STY1787	99.4	STY2980
	STY4140	38.462			STY4140	4.47	
ATGCTAA +	STY1650	100	STY2891	63.107	STY1650	98.5	STY2891
ATGACAG -	STY2288	100	STY2681	60.784	STY2288	98.5	STY1150
ATGAGGC +	STY3932	100	STY4466	66	STY3932	99	STY4466
ATGTTGT +	STY0244	100	STY4763	62.5	STY0244	98.6	STY2702
GTGCGTC -	STY2265	100	STY1258	53.774	STY2265	98.8	STY1258
ATGTTAG +	STY0145	100	STY3460	62.376	STY0145	99.6	STY2703
ATGTGCG -	STY2592	100	STY0145	54	STY2592	98.7	STY0145
ATGACCA +	STY4243	100	STY2201	76	STY4243	99.3	STY0011
TTGCTTA -	STY3463	100	STY4292	63	STY3463	99.3	STY4292
ATGGCAT -	STY2801	100	STY2532	67.647	STY2801	99.6	STY3787
	STY2851	62	STY3403	47	STY2851	21.3	STY3403
ATGCCTT +	STY0249	100	STY0515	61	STY0249	99.6	STY2327
	STY1329	62.037	STY4872	59.804	STY4872	7.69	STY1329
ATGAACT +	STY4058	100	STY0134	60.194	STY4058	98.6	STY0134
ATGGCGT +	STY4171	100	STY0887	82	STY4171	98.4	STY1308
ATGAGTA +	STY4258	100	STY2511	68	STY4258	98.9	STY2511
TTGTATC -	STY4050	100	STY3094	72	STY4050	98.8	STY3094
ATGTCGA +	STY2575	100	STY4268	67	STY2575	98.6	STY4268
ATGCAGC +	STY2804	100	STY2080	55	STY2804	98.7	STY2080
ATGAAAA +	STY2676	99	STY4415	62.963	STY2676	93.67	STY4415
ATGAAGT -	STY0868	100	STY2584	60.194	STY0868	100	STY2162
ATGGCGC -	STY0626	100	STY0063	64	STY0626	98.8	STY0063
ATGGTTA -	STY4803	100	STY4807	81	STY4803	99.6	STY4807
ATGACTG +	STY2836	100	STY0855	73.267	STY2836	98.9	STY0855
ATGAATC -	STY3373	100	STY3830	60.396	STY3373	99.2	STY3830
GTGTTTC +	STY4444	100	STY1000	68	STY4444	97.7	STY1000
ATGTCAC +	STY2795	100	STY3231	62.745	STY2795	98.8	STY3231
ATGTTAG +	STY2280	100	STY4170	62	STY2280	99.3	STY4170
ATGAAAC -	STY0596	100	STY4901	60	STY0596	98.9	STY2155
ATGCTCT -	STY3852	100	STY4450	60.784	STY3852	98.8	STY4450

ATGAATA+	STY0913	100	STY3519	70.755	STY0913	98.3	STY1263
ATGCCCA+	STY0749	100	STY0525	58.252	STY0749	98.4	STY0525
ATGCACG-	STY3803	100			STY3803	97.6	
ATGACCA-	STY0719	100			STY0719	98.9	
ATGCCTG+	STY0771	100	STY2413	58.095	STY0771	98.2	STY2413
ATGAGCT-	STY3761	100	STY2285	70.476	STY3761	98.5	STY2285
ATGGAAA+	STY4464	100			STY4464	99.1	
	STY4459	100	STY4458	64	STY4459	100	STY4458
ATGCTTG+	STY2803	100	STY4297	63.366	STY2803	98.7	STY4297
ATGAAAC+	STY0178	100			STY0178	98.2	
ATGTCTA+	STY3721	100	STY0240	60	STY3721	96.6	STY0240
ATGGCAG+	STY3855	100	STY3430	64.423	STY3855	99	STY3430
	STY3801	95	STY0185	31	STY3801	79.52	STY0185
ATGCTAA-	STY3001	100	STY4872	56.757	STY3001	96.1	STY4872
TTGACAC+	STY1231	100			STY1231	99.4	
ATGTTTC-	STY1350	100			STY1350	98.9	
ATGGCAC-	STY2851	100	STY0110	69	STY2851	99	STY0110
ATGCAGA+	STY0058	100	STY4809	61.386	STY0058	98.1	STY4104
ATGAAAA+	STY1038	100	STY2629	69	STY1038	100	STY2629
ATGCGAT-	STY4009	100	STY4184	48	STY4009	98.8	STY4184
GTGTTGC-	STY1710	100	STY0361	58	STY1710	98.9	STY0361
ATGAATA-	STY1322	100	STY1322	63.366	STY1322	100	STY1322
	STY4632	92.079	STY3944	62.5	STY4632	61.64	STY3944
ATGACCA+	STY0459	100			STY0459	97.83	
ATGCTGA-	STY1405	100	STY4926	62.264	STY1405	98.6	STY2491
ATGCGTT+	STY1292	100	STY1383	61.765	STY1292	98.2	STY4249
GTGGATA+	STY1955	100	STY1955	58.252	STY1955	99.7	STY1955
ATGAATA-	STY1285	100	STY2472	69.307	STY1285	98.9	STY2472
ATGCCCC-	STY3133	100	STY0835	67.327	STY3133	98.6	STY0835
ATGGCAC-	STY3055	100	STY3457	53.333	STY3055	98.9	STY3457
TTGATAC+	STY3044	100	STY0897	62.745	STY3044	98.8	STY0186
ATGATGA+	STY1150	100	STY4682	63.889	STY1150	99	STY4682
ATGGCAA-	STY0103	100	STY0943	78.218	STY0103	98.9	STY0943
ATGGCAC-	STY3625	100	STY0438	77	STY3625	99.5	STY0617
ATGAATT(+	STY3641	100	STY2743	69.307	STY3641	98.9	STY2743
ATGGCTT-	STY3734	100			STY3734	100	
ATGGCAC+	STY1945	100			STY1945	99.6	
ATGCGTT+	STY1971	100	STY0214	56.731	STY1971	99.2	STY0214
ATGACCG-	STY2129	100	STY4466	61.165	STY2129	99.4	STY0046
ATGGAAC-	STY4407	100	STY4874	87.129	STY4407	98.7	STY4796
ATGAACC+	STY0471	100	STY2753	74.51	STY0471	98.02	STY2753
ATGATCC+	STY3831	100	STY2649	56.436	STY3831	100	STY2649
ATGATCG+	STY3595	100	STY3596	100	STY3595	99	STY3596
ATGGATT(+	STY0658	99	STY1256	60.396	STY0658	83.77	HCM1.203
ATGAGCC-	STY1318	100	STY3215	66.346	STY1318	100	STY3215
ATGAGTA+	STY1488	100	STY1288	91	STY1488	92.02	STY1288
ATGTGTA+	STY1455	100	STY0429	67.619	STY1455	99.2	STY0536
GTTCCCG-	STY1439a	97	STY2281	64.486	STY1439a	11.25	STY2281
TTGTACT+	STY1394	100	STY4945	56	STY1394	99.1	STY4945
ATGAACA-	STY0520	100	STY3569	73	STY0520	98.9	STY3569
ATGAAAA+	STY1519	100	STY4097	66.019	STY1519	99	STY3100
ATGACAG-	STY1534	100	STY4819	63.462	STY1534	99.5	STY4819

ATGAAAA +	STY0979	100	STY3237	81	STY0979	98.4	STY3237
ATGAAAG +	STY0663	100	STY2910	63.107	STY0663	98.8	STY1555
ATGGAAA -	STY1311	100	STY0670	61.468	STY1311	99.4	STY0670
	STY4789	66	STY2396	61.165	STY4789	57.65	STY2396
	STY3008	63.889	STY3688	52.941	STY3008	8.4	STY3688
ATGCGCC +	STY1460	100	STY2664	67.961	STY1460	98.6	STY2797
ATGGATT -	STY1433	100	STY4492	56.311	STY1433	65.19	STY4492
	STY1339	55.769	STY2349	49.505	STY1339	7.88	STY2349
ATGTTGC +	STY2084	100	STY0661	60.194	STY2084	99.6	STY0661
ATGGCGA -	STY3112	100	STY3830	68	STY3112	99.3	STY3830
TTGATTA +	STY3166	100	STY4468	67.961	STY3166	99.1	STY4468
ATGGCAA -	STY3218	100	STY4156	63	STY3218	99.4	STY4156
ATGTACC +	STY3246	100	STY4047	61.765	STY3246	98.4	STY4189
ATGTTAA -	STY0487	100	STY2160	67.327	STY0487	90.55	STY2160
ATGCCCG +	STY4230	100	STY2603	70.192	STY4230	95.12	STY2603
ATGAAAA +	STY4182	100	STY2494	63	STY4182	99	STY2494
ATGCGTA -	STY4120	100	STY4743	74.257	STY4120	97.7	STY4743
ATGGTAC -	STY4091	100			STY4091	98.15	
ATGACAA -	STY3099	100	STY3098	88	STY3099	98.6	STY3098
ATGTCGG -	STY3129	100	STY2687	69	STY3129	99.1	STY2687
ATGTCTG -	STY3196	100	STY2109	68	STY3196	99.4	STY0274
GTGGAAA +	STY4215	100	HCM2.001	53	STY4215	97.31	HCM2.001
ATGACCA -	STY3121	100	STY3386	63.208	STY3121	100	STY0294
	STY4512	98	STY2510	66.667	STY4512	51.88	STY4508
ATGCGAA +	STY3354	100	STY2904	66.667	STY3354	98.6	STY4491
ATGGTCT -	STY3160	100	STY3244	78	STY3160	98.5	STY3244
ATGGTCA +	STY2450	100	STY1767	65.094	STY2450	99	STY1767
ATGAATA -	STY2306	100			STY2306	97.4	
ATGATTA -	STY2388	100	STY3507	66	STY2388	99.7	STY3992
ATGACAC -	STY0936	100	STY2899	65.347	STY0936	97.65	STY2899
ATGTTTG -	STY4136	100	STY4759	79.208	STY4136	99.4	STY4759
ATGCCAG +	STY4517	99	STY4667	95	STY4517	97.3	STY4667
TTGCCTC -	STY4089	100			STY4089	98.3	
ATGCTCA -	STY4206	100	STY4796	88	STY4206	99.4	STY4796
ATGAAAA -	STY4293	100	STY4285	61.765	STY4293	99.6	STY4285
ATGAAAC -	STY3473	100	STY4613	61	STY3473	99.6	STY3986
ATGAAAC +	STY4920	100	STY3569	50.98	STY4920	98.9	STY3569
	STY0519	72	STY2341	71	STY3570	28.15	STY2719
ATGAGTC -	STY3465	100	STY0359	62.745	STY3465	97.9	STY0359
ATGCGTA -	STY3363	100	STY4883	65	STY3363	99.7	STY4883
ATGATGC -	STY3262	100	STY2418	60	STY3262	99.3	STY2418
ATGCCAT -	STY2943	100	STY3480	64.078	STY2943	99.4	STY3480
ATGAGTA +	STY2411	100	STY2696	54.902	STY2411	100	STY2696
GTGAATA -	STY2456	100	STY2456	63.107	STY2456	99.7	STY2456
ATGCGAC -	STY2459	100	STY4410	62.5	STY2459	99.9	STY1331
ATGAACG -	STY2383	100	STY2571	62.617	STY2383	99.5	STY2337
ATGTTCA +	STY2648	100	STY0214	64	STY2648	100	STY3059
ATGTCTC +	STY4373	100	HCM2.007	57	STY4373	100	HCM2.007
ATGCTCA +	STY4324	100	STY0584	71	STY4324	99.5	STY0584
ATGGCGT +	STY4720	100	STY4676	57.843	STY4720	99.4	STY4676
ATGAATA +	STY4024	100			STY4024	98.58	

ATGTCTC. +	STY3330	100	STY1333	91	STY3330	98.2	STY3268
ATGTCTG +	STY3216	100	STY1503	49.505	STY3216	99.7	STY1503
ATGATAC +	STY0815	100	STY2680	62	STY0815	99.1	STY2679
ATGGATT. +	STY0858	100	STY0221	60.396	STY0858	98.7	STY0221
ATGGTGC +	STY2866	100	STY1336	61.165	STY2866	99.9	STY1336
ATGTCCA -	STY2290	100	STY2639	57.843	STY2290	98.3	STY2639
GTGCTAA -	STY0806	100	STY1976	63.366	STY0806	98.9	STY1327
ATGAGTG -	STY0852	100	STY4224	79	STY0852	98.8	STY4224
ATGATTA(-	STY0895	100	STY2406	61	STY0895	98.9	STY0635
ATGCTTT +	STY3493	100	STY0708	64.151	STY3493	99	STY0644
ATGCTCT +	STY3402	100	STY2414	66	STY3402	99	STY2414
ATGGTAG -	STY4513	100	STY4104	58.824	STY4513	88.51	STY4104
ATGAAAA +	STY0398	100	STY1515	60.577	STY0398	100	STY1515
ATGGCGC +	STY2822	99	STY3410	53.465	STY2822	98.1	STY3410
	STY3220	61	STY3456	57.426	STY3220	27.02	STY3456
ATGACAC -	STY4799	100	STY3075	54	STY4799	98.7	STY3075
ATGAAAG +	STY0629	100	STY2892	67.327	STY0629	99	STY2892
ATGTTGA -	STY3752	100	STY0082	64.078	STY3752	99.4	STY4161
ATGAATT(+	STY4722	100	STY3600	63.366	STY4722	100	STY2599
ATGACAA -	STY1732	100		STY1732		100	
ATGATGT +	STY3564	100	STY2404	67.308	STY3564	87.23	STY2404
	STY4777	61	STY3111	60.748	STY3111	16.17	STY4777
ATGTGGT +	STY4446	100	STY0875	64.078	STY4446	99.5	HCM2.001
ATGTTTG. -	STY4642	100	STY3662	85	STY4642	96.7	STY3662
ATGAGCG +	STY2907	100	STY4442	60.577	STY2907	99.11	STY4442
ATGAAAT(-	STY3885	100	STY3107	62.376	STY3885	100	STY3107
ATGAAAA +	STY3026	99		STY3026		98.3	
	STY3925	70.297	STY3437	65.347	STY2439	38	STY3925
ATGCCCG -	STY3057	100	STY4688	60.396	STY3057	99.1	STY4688
ATGACTG +	STY1661	100	STY4514	65.347	STY1661	99.1	STY4514
ATGAACA +	STY1560	100	STY1309	65.385	STY1560	99.1	STY1309
ATGAATA +	STY2250	99	STY2243	82	STY2250	96.4	STY2243
ATGCAAG +	STY4750	100	STY0860	51.961	STY4750	99.5	STY0860
ATGTACG +	STY4354	100	STY2496	58.654	STY4354	100	STY2496
ATGAAAA. -	STY0352	100	STY1521	61.386	STY0352	99.5	STY1521
TTGAGGC -	STY1943	100	STY2318	62.376	STY1943	99.1	STY0305
ATGAAAC -	STY1908	100	STY0231	58.333	STY1908	79.17	STY0231
ATGGACA -	STY1991	100	STY3653	65.686	STY1991	97.1	STY3653
ATGAATA. -	STY2087	100	STY4152	56	STY2087	98.6	STY4152
ATGAACG -	STY1969	100	STY1303	61.905	STY1969	97.6	STY4462
ATGTGTG -	STY2445	100	STY1043	59.406	STY2445	100	STY1043
	STY4536	83	STY4451	81	STY4451	49.9	STY4536
	HCM2.013	73	STY1048	59.813	HCM2.013	53.61	HCM1.54
	STY2309	60.194	STY4046	48	STY2309	13.29	STY4046
	STY2324	63.889	HCM2.009	62	STY2324	11.28	STY2028
	STY3383	62.5	STY3850	58.095	STY3850	13.78	STY3383
	STY3182	77	STY0063	62.037	STY3182	71.9	STY0895
	STY4044	61.321	STY4936	47.115	STY4044	25.99	STY4936
	HCM1.241	72	STY4298	67.647	HCM1.241	49.48	STY4298
	STY4460	46.078	STY2196	43.137	STY4460	19.42	STY2196
	STY4697	62.136		STY4697		6.41	

	STY2602	61.386	STY3094	56.863	STY2602	23.74	STY3094
	STY3902	62.5	STY2911	52.83	STY3902	28.39	STY2911
	STY4759	58.654			STY4759	15.4	
	STY0787	100	STY1921	69	STY0787	98.7	STY1921
	STY4707	55.446	STY0727	49.02	STY4707	33.32	STY0727
	STY3325	29			STY3325	17.37	
	STY2857	100	STY1763	77	STY2857	99.6	STY0801
ATGACGA -	STY3188	100	STY4200	60.577	STY3188	100	STY4200
ATGAACG +	STY2068	100	STY3177	61.165	STY2068	100	STY0807
ATGAAGC -	STY2298	100	STY3021	59	STY2298	100	STY3021
GTGAACA +	STY3685	100	STY4617	92	STY3685	100	STY4617
ATGAATT -	STY3764	100	STY2802	77	STY3764	100	STY2802
ATGACGC +	STY1293	100	STY4163	65	STY1293	100	STY2229
	STY3643	100	STY0798	82	STY3643	100	STY0798
ATGAAGA -	STY3671	100	STY2300	57	STY3671	100	STY2300
ATGAACG +	STY3687	100	STY4615	88	STY3687	100	STY4615
GTGAGTA -	STY3845	100	STY0899	55	STY3845	100	STY0899
GTGAATA -	STY1360	100			STY1360	100	
ATGACAC -	STY1598	100	STY1320	63.208	STY1598	100	STY1320
ATGCGTA +	STY3665	100	STY4639	74	STY3665	100	STY4639
ATGACGC +	STY3681	100	STY4621	90	STY3681	100	STY4621
ATGATGA +	STY2881	100	STY3703	100	STY3703	100	STY2881
ATGGTGA -	STY0202	100	STY3134	61	STY0202	100	STY3134
ATGAAAT, +	STY0322	100	STY0765	64	STY0322	100	STY0761
ATGGCGA +	STY0478	100	STY4884	54.717	STY0478	100	STY4884
ATGAAAA, +	STY3683	100	STY4619	65.347	STY3683	100	STY4619
GTGCGG1 +	STY2895	100	HCM1.70	60	STY2895	100	STY2568
ATGAAAA, -	STY0204	100	STY3956	64.545	STY0204	100	STY1409
ATGACGA +	STY0324	100	STY0321	74.51	STY0324	100	STY0321
ATGCAGC +	STY0480	100	STY0477	64	STY0480	100	STY0477
TTGGGTC +	STY1029	100	HCM1.143	62.857	STY1029	100	HCM1.143
ATGAAAA, -	STY4219	100	STY1698	62.376	STY4219	100	STY0684
GTGTTTCG -	STY4653	100	STY1436	55.882	STY4653	100	STY1436
ATGATGA -	STY4679	100	STY2439	62.376	STY4679	100	STY2439
ATGAAAA, +	STY4831	100	STY1735	64.151	STY4831	100	STY1735
ATGAAAA, +	STY4875	100	STY4020	87	STY4875	100	STY4020
GTGAAAG -	STY4220	100	STY4798	77	STY4220	100	STY4798
ATGAGAA -	STY4596	100	STY2545	57.692	STY4596	100	STY2545
ATGAAAC -	STY4259	100	STY3777	66.981	STY4259	100	STY0906
GTGATGA +	STY4529	100			STY4529	100	
TTGAGGT -	STY4675	100	STY4680	61.386	STY4675	100	STY1187
ATGCACA +	STY4828	100	STY4241	63	STY4828	100	STY4241
ATGACCT +	STY4853	100	STY2093	68.269	STY4853	100	STY2093
ATGGCGC +	STY0215	100	STY4303	64.706	STY0215	99	STY4303
ATGTGTT, -	STY0718	100	STY0578	69	STY0718	97.1	STY0578
GTGACAA -	STY0743	100	STY4935	65.347	STY0743	99.1	STY2344
ATGTCGA -	STY3946	100	STY0906	68.932	STY3946	91	STY3100
ATGAATA, -	STY2233	100	STY2222	77.228	STY2233	98.9	STY2222
ATGAACA +	STY3993	100	STY2696	65.385	STY3993	98.8	STY2696
	STY2350	60.952	STY0605	59.406	STY3289	13.62	STY2350
ATGAAAA, -	STY3901	100	STY2834	59.615	STY3901	98.5	STY2834
ATGCCAT -	STY0049	100	STY2781	63.107	STY0049	98.2	STY3859

GTGGAGA+	STY0135	100	STY3656	78	STY0135	99	STY3656
ATGGATA-	STY0171	100	STY4043	74	STY0171	98.7	STY4043
	STY3920	76	STY0026	72	STY4941	50.92	STY3920
ATGAAGC-	STY3507	100	STY2496	66	STY3507	98.8	STY2496
ATGAGTC-	STY3548	100	STY3562	63.81	STY3548	98.9	STY3562
ATGTCTA+	STY0678	100	STY1967	87	STY0678	100	STY1967
	STY1292	65.686	STY0372	60.396	STY1292	20.03	STY0480
ATGAGTG+	STY0724	100	STY0491	64.545	STY0724	98.7	STY3871
GTGCAGC+	STY0752	100	STY0617	60.784	STY0752	99.4	STY0617
ATGCGTA-	STY0269	100	STY3458	61.538	STY0269	99.5	STY3458
ATGGAGA-	STY1521	100	STY0174	67	STY1521	98.6	STY1934
ATGAATA-	STY2326	100			STY2326	97.5	
ATGAGAA-	STY4938	100	STY0031	65	STY4938	97.2	STY0659
	STY4457	58.491			STY4457	28.87	
ATGAGTG+	STY0366	100	STY0909	61.538	STY0366	99.1	STY0909
	STY3690	93	STY4612	93	STY3690	87.1	STY4612
	STY0306	97	STY2634	53	STY0306	87.33	STY2634
	STY3923	67	STY0498	64.706	STY3923	20.71	STY0498
ATGACGA+	STY2899	100	STY0936	65.347	STY2899	98.8	STY0936
ATGCTTC-	STY1115	100	STY4081	60	STY1115	99.4	STY4081
ATGGCTA-	STY1147	100	STY3577	52	STY1147	99.7	STY3577
	STY4835	95	STY1924	63.81	STY4835	64.82	STY0602a
ATGTCCA+	STY2918	100	STY0612	60	STY2918	98.7	STY2912
ATGAAGA+	STY1136	100	STY4116	67	STY1136	98.6	STY2911
ATGAAAT+	STY4345	100	STY4753	66.346	STY4345	98	STY4753
ATGAAGG+	STY4307	99	STY4308	85	STY4307	97.5	STY4308
ATGAAAC-	STY1276	100	STY3956	57.282	STY1276	99.4	STY3956
ATGATGA-	STY1792	100	STY3751	64.423	STY1792	99.6	STY3751
GTGAGAC+	STY1184	100	STY1185	65	STY1184	99.8	STY1185
GTGTCTA+	STY1236	100	STY2609	73	STY1236	99.3	STY2609
TTGTCGG+	STY1257	100			STY1257	99.3	
ATGACTA+	STY1854	100	STY2351	54.808	STY1854	99.2	STY2351
ATGAGCC+	STY4233	100			STY4233	99.6	
	STY4310	63			STY4310	7.65	
ATGAAAA+	STY4417	100	STY0456	65.049	STY4417	98.7	STY0456
ATGAGTC+	STY4462	100	STY0511	68	STY4462	98.9	STY0376
ATGAGTA-	STY4496	100	STY3372	60.377	STY4496	99.1	STY1378
ATGAAAA+	STY2607	100	STY1927	61	STY2607	98.7	STY0070
ATGAAAA+	STY4445	100			STY4445	98.5	
ATGAAAC-	STY4483	100	STY0219	61.386	STY4483	98.7	STY0219
ATGTCAA-	STY4685	100	STY2341	65.385	STY4685	99.4	STY1653
ATGAAAA-	STY0923	100	STY0920	75	STY0923	99.6	STY0920
	STY0823	52.941			STY0823	7.24	
ATGTTTT(-	STY0933	100			STY0933	97.6	
ATGAAGG-	STY3804	100	STY3989	65	STY3804	95.3	STY2126
	STY1609	79	STY2265	63.208	STY1609	32	STY1610
	STY2213	44	STY1285	43.564	STY2213	12.65	STY1285
ATGGCCT-	STY4692	100	STY4318	48.077	STY4692	99.1	STY4318
GTGAATG+	STY0911	100	STY4426	86	STY0911	99.1	STY1266
	STY1160	63.366			STY1160	5.38	
ATGAGTA-	STY0223	100	STY3396	68.317	STY0223	97.3	STY1811

ATGACAG +	STY0401	100	STY3778	60	STY0401	98	STY0773
ATGAACA +	STY1763	100	STY0801	82	STY1763	98.7	STY0801
ATGCTGA +	STY2143	100	STY2141	73	STY2143	98.4	STY2141
ATGGACT -	STY2201	100	STY0990	66	STY2201	98.7	STY0990
TTGAAAT/-	STY2496	100	STY3096	74	STY2496	99	STY3507
	STY1170	65.686	STY4906	54	STY1170	8.49	STY4906
GTGCATT -	STY2541	100	STY0639	64	STY2541	99.3	STY0639
ATGTCGA -	STY2566	100			STY2566	98.7	
ATGTCTT,+	STY2262	100	STY2567	67	STY2262	98.3	STY2567
ATGAGTC -	STY3049	100	STY3390	68	STY3049	99.8	STY3390
ATGGCTA -	STY0228	100			STY0228	98.5	
ATGCTGA -	STY1770	100	STY0802	70.588	STY1770	98.3	STY0802
ATGGAAC -	STY1098	100	STY1773	62.385	STY1098	99.3	STY1773
ATGGTAT -	STY2988	100	STY4515	68.317	STY2988	99	STY4515
GTGAAAT +	STY3776	100	STY0231	63.81	STY3776	99.1	STY1692
ATGCAAT -	STY2153	100	STY4375	58	STY2153	99.6	STY2400
ATGAAGA -	STY3021	100	STY1726	61.905	STY3021	99.3	STY1726
ATGTCGT +	STY1691	100	STY3816	65	STY1691	99.8	STY0425
ATGAAAC +	STY1181	100	STY3941	62.5	STY1181	99.8	STY3941
ATGCCTG +	STY4068	100			STY4068	98.9	
ATGATTA +	STY4079	100	STY2794	60	STY4079	98.6	STY2794
ATGAAGC +	STY1590	100	STY4699	88	STY1590	99.5	STY4699
ATGTCAA -	STY1654	100	STY4499	92	STY1654	93.02	STY4499
ATGAAAA +	STY1566	100	STY0962	81	STY1566	99	STY4503
ATGCCTG +	STY4001	100	STY4423	49	STY4001	98.1	STY4423
GTGTCTG -	STY0353	100	STY0995	54.455	STY0353	98.8	STY0995
ATGTCTC +	STY0395	100	STY3349	64.762	STY0395	98.7	STY3349
ATGTGGT -	STY2216	100	STY1676	57.282	STY2216	94.24	STY1676
GTGACAG +	STY2276	100	STY3610	64.078	STY2276	99	STY3610
ATGTTTG,+	STY0153	100			STY0153	98.8	
ATGCTAA -	STY2553	100	STY1325	72	STY2553	98.8	STY2372
ATGAGCC +	STY0362	100	STY2815	91	STY0362	99.8	STY0269
ATGACTC +	STY2188	100	STY4769	63.551	STY2188	98.5	STY3012
ATGAATA -	STY1578	100	STY2655	76	STY1578	98.3	STY2655
ATGCCAC +	STY4351	100	STY2855	61.468	STY4351	99.8	STY2855
ATGAAAC -	STY3936	100	STY2458	74.757	STY3936	98.2	STY2458
ATGACCA +	STY0420	100	STY2413	58	STY0420	99.1	STY2413
ATGGCAA -	STY0483	100	STY4270	62.857	STY0483	99.3	STY4270
ATGATGC +	STY4467	100	STY4739	56.436	STY4467	99.2	STY4739
ATGATTG -	STY2543	100	STY1721	53.922	STY2543	99.4	STY1721
ATGAGCC +	STY3441	100	STY2762	64.151	STY3441	91.4	STY2666
	STYrarB	60	STY4137	53.774	STYrarB	27.41	STY4137
ATGAAAA +	STY1741	100	STY4263	77	STY1741	98.8	STY4263
ATGTTAT(+	STY2753	100	STY0646	68.269	STY2753	96.7	STY0646
ATGATAG -	STY0546	100	STY3904	62.745	STY0546	98.7	STY1493
ATGATGA -	STY4772	100	STY0473	62.136	STY4772	98.4	STY4784
ATGTCAG +	STY3368	100	STY1666	77.451	STY3368	98.3	STY1666
ATGAGCC -	STY3400	100	STY3519	61	STY3400	99	STY4906
ATGGCTC +	STY3448	100	HCM1.180	62.264	STY3448	99.2	STY0674
	STY4631	61.165	STY2548	52	STY4631	7.12	STY2548
ATGAGGT -	STY1898	100	STY3201	58.416	STY1898	99.3	STY3201

ATGACGA +	STY2530	100	STY3019	59.434	STY2530	99.1	STY3019
ATGAAAT(-	STY2684	100			STY2684	99.7	
ATGAATT(+	STY4809	100	STY0058	50.98	STY4809	93.15	STY0058
ATGACCG +	STY2914	100	STY3537	69.231	STY2914	99.1	STY3967
ATGCCTG -	STY4868	100	STY0931	62.136	STY4868	98.6	STY0931
ATGTTTA(-	STY4944	100	STY4772	61	STY4944	98.5	STY0435
	STY4143	100			STY4143	97.3	
ATGACGC +	STY1297	100	STY1285	66.667	STY1297	99.8	STY1285
ATGATTA(-	STY1368	100	STY4087	63.462	STY1368	98.7	STY4169
ATGACCG -	STY3825	100	STY3756	66.99	STY3825	99.9	STY3756
ATGACGA +	STY3882	100	STY1670	62.5	STY3882	98.2	STY1670
ATGACTC -	STY0848	100	STY4790	61.765	STY0848	98.6	STY4790
GTGACTA +	STY0830	100	STY2593	60.577	STY0830	99.1	STY0709
ATGATCA(-	STY0104	100	STY4087	66.337	STY0104	98.4	STY3355
ATGAAAA(-	STY3836	100	STY3837	69	STY3836	98.9	STY3837
GTGAAGC -	STY0692	100	STY4767	91.176	STY0692	99.8	STY0498
ATGAATC(-	STY0282	100	STY0984	60	STY0282	98.1	STY0984
ATGGAAT +	STY0978	100	STY0408	64.486	STY0978	98.7	STY0408
ATGAAGA -	STY2585	100	STY2584	85	STY2585	99	STY2584
ATGCGCT +	STY2871	100	STY1731	58	STY2871	100	STY1731
ATGAAAA +	STY0068	100	STY0672	66.337	STY0068	99	STY0672
ATGGTCG +	STY0394	99	STY2807	55.882	STY0394	98.7	STY2807
ATGCCAC -	STY1986	100	STY0979	60.952	STY1986	98.8	STY3894
ATGACCA +	STY4209	100	STY1549	67	STY4209	97.8	STY1549
	STY0750	100	STY2807	84	STY0750	99.1	STY2807
ATGATCA(-	STY4501	100	STY2904	63.81	STY4501	99	STY0675
ATGGATT(+	STY2144	100	STY1820	53.398	STY2144	70.57	STY1820
ATGAGCG +	STY1377	100	STY3764	63.462	STY1377	98.1	STY3251
ATGATTA(-	STY2830	100	STY1240	63.107	STY2830	98.8	STY3901
ATGCCGC -	STY1176	100	STY0033	65	STY1176	99.3	STY0891
ATGACCA +	STY3096	100	STY2496	72	STY3096	98.7	STY2496
	STY4835	95	STY0602a	63	STY4835	93.2	STY0602a
	STY3724	95	STY0550	49	STY3724	77.13	STY3389
ATGGACC +	STY4338	99	STY0814	60.748	STY4338	90.21	STY0710
ATGACAG -	STY3475	100	STY2765	61.682	STY3475	99.03	STY2765
ATGAACA +	STY2257	100	STY2698	71	STY2257	95.1	STY2698
ATGAGTT(+	STY4477	100	STY3841	66.337	STY4477	97.9	STY2270
ATGACTG +	STY2183	99	STY0111	69	STY2183	98.9	STY0111
ATGTCGA -	STY1549	100	STY4209	69	STY1549	98.7	STY4209
ATGATTA(-	STY3744	100	STY2434	66.337	STY3744	99.1	STY2434
ATGCTCG +	STY0655	100	STY3732	66.019	STY0655	98.5	STY0956
ATGATGT +	STY1306	100	STY4170	66.667	STY1306	98.7	STY4170
ATGGCTC +	STY3798	100	STY3149	65.686	STY3798	99.5	STY4478
ATGACAA +	STY3592	100	STY1755	67	STY3592	98.5	STY2311
ATGGACC -	STY3608	100	STY3642	67	STY3608	98.8	STY3642
ATGATCC +	STY0100	100	STY4340	59.223	STY0100	98.52	STY4340
ATGCTTA(-	STY3215	100	STY1318	65	STY3215	99.5	STY4044
ATGTCTA(+	STY2179	100	STY2891	69	STY2179	98.9	STY2891
ATGAGTA +	STY2666	100	STY2677	76.238	STY2666	98.9	STY2677
ATGATTT(+	STY2668	100	STY3144	69	STY2668	99.4	STY3144
ATGCATT(-	STY1333	100	STY3554	66	STY1333	99.9	STY0551
ATGCAGT -	STY3080	100	STY0642	53	STY3080	99.1	STY0642

ATGTCCA +	STY3077	100	STY4894	71.028	STY3077	98.9	STY4894
ATGTATA +	STY3866	100	STY3744	91	STY3866	98.4	STY3384
ATGCGTA -	STY2121	100	STY4816	59	STY2121	97.26	STY4816
GTGGAAC +	STY1409	100	STY0204	61.765	STY1409	99.3	STY2315
TTGATGG +	STY1509	100			STY1509	72.57	
GTGGATA +	STY1922	100	STY1410	63.81	STY1922	87.09	STY1815
GTGACCA +	STY1959	100	STY4014	64	STY1959	99.4	STY4014
ATGATGC -	STY1984	100	STY3030	67	STY1984	98.9	STY3030
GTGAAGC -	STY2108	100	STY3954	58.491	STY2108	99.1	STY3954
ATGCTTG -	STY0921	100	STY0922	72	STY0921	98.7	STY0922
ATGAGTG +	STY0568	100	STY3946	62.745	STY0568	98.1	STY3946
ATGTTTG -	STY1000	100	STY4444	65.347	STY1000	99.4	STY4444
ATGCCAT +	STY0632	100	STY4936	60	STY0632	98.4	STY4936
ATGTCCC -	STY0371	100	STY4941	65	STY0371	98.5	STY0026
GTGTGCA -	STY1507	100	STY4221	64.078	STY1507	96.55	STY4221
GTGATAG +	STY1304	100	STY1384	77	STY1304	99	STY1384
ATGAATA +	STY1913	100	STY1523	86	STY1913	99.2	STY1523
ATGCAAA +	STY1957	100	STY0511	69.903	STY1957	92.7	STY0376
ATGCAAA +	STY1419	100	STY3896	72	STY1419	98.2	STY4112
ATGAAAC -	STY1385	100	STY3017	60	STY1385	98.2	STY3017
ATGTTTA(-	STY0543	100	STY3821	62.5	STY0543	96.95	STY3821
ATGAACG +	STY3124	100	STY1750	70	STY3124	98.8	STY1750
	STY4611	83	STY1072	60	STY4611	22.02	STY4387
ATGAAAA -	STY0291	100			STY0291	98.2	
GTGGCAC +	STY0446	100			STY0446	99.5	
ATGAGTC -	STY3319	100	STY3447	62.5	STY3319	99.5	STY3447
ATGACTG -	STY2951	100	STY1547	67	STY2951	99.2	STY1547
ATGGCTG -	STY4164	100	STY2425	66.019	STY4164	96.4	STY3891
	STY0285	62.136	STY4202	62.037	STY4202	17.27	STY2960
ATGAATC(-	STY4057	100	STY2809	60.194	STY4057	97.5	STY2809
	STY3684	63.107	STY3819	62	STY3819	43.23	STY3684
ATGAGTG -	STY3152	100	STY3777	61.165	STY3152	97.74	STY3777
ATGTCCT(-	STY3236	100	STY2711	85	STY3236	98.6	STY2711
GTGACTG -	STY2967	100	STY3318	61.765	STY2967	98.9	STY3318
ATGGCGA +	STY4155	100	STY2452	63.107	STY4155	99.6	STY4318
ATGACGA +	STY4116	100	STY1467	77	STY4116	97.6	STY2911
ATGACGC +	STY4017	100	STY4785	75.248	STY4017	98.7	STY4785
ATGAAAG +	STY3119	100	STY2653	61.538	STY3119	99	STY2653
ATGCGTA -	STY3177	98	STY0031	63	STY3177	69.94	STY0031
ATGGGTT -	STY2435	100	STY3625	73	STY2435	99.4	STY3625
	STY4611	50	STY1637	49	STY4611	4.02	STY1637
ATGCGGC -	STY2444	100	STY2299	63.107	STY2444	98.2	STY2299
ATGAAAA -	STY4063	100	STY0689	65.049	STY4063	98.65	STY3152
ATGGAAA +	STY4363	100	HCM2.005	89.109	STY4363	100	HCM2.005
ATGCGTA +	STY4721	100	STY2739	60.396	STY4721	99.6	STY4741
ATGCGCC +	STY4384	100	STY2758	47.573	STY4384	100	STY2758
ATGCGTG +	STY0937	100	STY3768	53.465	STY0937	99.3	STY3768
ATGGGTA +	STY4723	100	STY2200	56.436	STY4723	99.1	STY2200
ATGAAAA -	STY3429	100	STY2730	79	STY3429	98.6	STY3097
GTGAACA -	STY3320	100	STY0963	81	STY3320	99	STY0963
ATGACAC +	STY2954	100	STY3731	62.963	STY2954	97.9	STY0544
ATGCCTT +	STY4785	100	STY4017	71	STY4785	98.7	STY4017

GTGGCAA +	STY4926	100		STY4926	98.3
	STY0544	80	STY0746	72	STY0544 50.67
GTGAAGA -	STY2966	100	STY1611	60.396	STY2966 94.56
ATGCACA +	STY2443	100	STY4008	57.282	STY2443 98.9
ATGACAG -	STY2300	100	STY2657	88	STY2300 98.9
ATGAAAG -	STY2302	100	STY2302	61.165	STY2302 99.5
ATGAAAC -	STY2381	100	STY2642	60.194	STY2381 100
ATGAGTC +	STY1287	100	STY1489	81	STY1287 96.12
ATGAAAG -	STY4130	100	STY3926	58	STY4130 98.2
ATGCTTT(-	STY4236	100	STY3766	63.107	STY4236 100
ATGACTA(-	STY3516	100	STY4115	66.99	STY3516 99.4
ATGGAAC +	STY3406	100	STY3334	78	STY3406 98.2
ATGGTGC -	STY1718	100	STY0765	61.386	STY1718 99.3
ATGGCGC +	STY1152	100	STY2842	61.165	STY1152 98
ATGAACA +	STY0824	100	STY1536	84	STY0824 98.1
ATGAATA -	STY0878	100	STY2218	78	STY0878 99.9
ATGAGCC -	STY3213	100	STY0717	64.706	STY3213 98.6
ATGGGCA +	STY1137	100	STY3479	61.765	STY1137 98.5
ATGCGGC +	STY0820	100		STY0820	98.4
ATGCGGT +	STY0865	100	STY1835	65.347	STY0865 98.7
ATGAAGA +	STY1463	100	STY4267	59	STY1463 98.7
ATGCAGC +	STY3438	100	STY2442	80	STY3438 99
ATGAAAC +	STY3365	100	STY3443	61.538	STY3365 99.3
ATGAATA(-	STY2706	100	STY2260	72	STY2706 98.5
ATGGAAT -	STY2534	100	STY3529	66.981	STY2534 99.6
ATGTAA +	STY3916	100	STY2984	64.078	STY3916 98.7
ATGCCGA -	STY0463	100	HCM2.006	73.394	STY0463 100
ATGAGCA +	STY2930	100	STY0156	57.692	STY2930 98.4
ATGCAAA +	STY0496	100	STY1909	62.745	STY0496 99
	STY3533	94	STY0065	81	STY3533 67.94
ATGGCAG +	STY4369	100	STY1305	57.426	STY4369 99.7
ATGACCG +	STY4367	100	STY2109	58.252	STY4367 100
ATGCGCC +	STY4760	100		STY4760	99
ATGAAAA -	STY2382	100	STY1070	59.804	STY2382 100
ATGAATT(-	STY2139	97	STY3126	60.577	STY2139 93.4
ATGAAAA +	STY1086	99		STY1086	97.9
GTGCGCC +	STY2846	100	STY1684	41	STY2846 100
GTGAAGT +	STY1679	100	STY4444	61.905	STY1679 99.2
ATGAAAA -	STY3774	100	STY3738	66.667	STY3774 100
ATGGACA -	STY4500a	99	STY2269	57.426	STY4500a 98.1
ATGACAG +	STY0491	100	STY0943	64.078	STY0491 98.8
ATGGCCG -	STY1323	100	STY1548	85.437	STY1323 100
ATGGGAA -	STY1849	100	STY4744	62.745	STY1849 99.5
	STY4610	98	STY2633	65.347	STY4610 85.81
ATGAATG -	STY0262	100	STY4111	61.905	STY0262 96.92
ATGAAAA(-	STY0017	100	STY0038	65	STY0017 98.6
GTGAGTC -	STY2477	96.386	STY3962	96.386	STY2477 96.39
ATGCTAA +	STY0391	100		STY0391	100
ATGACAC -	STY1125	98	STY3635	50	STY1125 98.2
ATGACGG -	STY4246	100	STY0221	48.571	STY4246 100
ATGATGA +	STY1982	100	STY2911	50	STY1982 99.6

	STY4097	57	STY4705	49	STY4097	17.25	STY4705
	STY0114	61.765	STY4522	56.863	STY0114	54.28	STY4522
	STY0901	57.944			STY0901	3.91	
	STY3510	63.725	STY3749	61.905	HCM1.145	7.79	STY3749
	STY0593	62.136	STY0207	58.182	STY0207	13.61	STY0593
	STY3586	62.037	STY1262	43	STY3586	7.89	STY1262
	STY4563	58.824	STY0321	58.716	STY0321	11.18	STY4563
	HCM1.215	82	STY2866	58.824	HCM1.215	28.91	STY2866
	STY1159	61.905	STY0310	56.19	STY1159	22.8	STY0310
	STY4090	60.577	STY4339	58.095	STY4339	17.28	STY4090
	STY3199	52.941			STY3199	19.01	
ATGAATA, +	STY0750	100	STY2807	84	STY0750	99.2	STY2807
	STY0801	100	STY2857	71.287	STY0801	99.2	STY1763
GTGCCGC +	STY0887	100	STY1309	74	STY0887	99.5	STY4172
	STY2296	60.396	HCM1.87	59.406	HCM1.87	11.18	STY2296
	STY0924	100	STY2159	71.569	STY0924	99.7	STY2159
ATGGCGC -	STY2052	100	STY1034	70	STY2052	100	STY1034
ATGCAAT, +	STY3614	100	STY4756	67	STY3614	100	STY4756
ATGTATA, -	STY2355	100	STY2355	49.505	STY2355	100	STY2355
GTGCCCA -	STY2756	100	STY2758	74	STY2756	100	STY2760
ATGCTTA, -	STY3006	100	STY4413	63.107	STY3006	100	STY0767
ATGTTGT, -	STY0206	100	STY3087	65.385	STY0206	100	STY0372
ATGAAAA, -	STY2104	100	STY2275	63.462	STY2104	100	STY2275
TTGATGT -	STY2357	100	HCM1.262	68.868	STY2357	100	HCM1.262
	STY2761	100			STY2761	100	
ATGAGCT -	STY3065	100			STY3065	100	
ATGCCAA +	STY0295	100	STY2432	26.263	STY0295	100	STY2432
ATGAAAA, +	STY0332	100	STY0333	77.228	STY0332	100	STY0333
ATGCCGA -	STY2350	100	STY0920	60.194	STY2350	100	STY2058
ATGACGT -	STY2731	100	STY0717	60.396	STY2731	100	STY0717
ATGGCTC -	STY2888	100	STY3696	100	STY2888	100	STY3696
ATGAAAA, +	STY1364	100	STY1362	71	STY1364	100	STY1362
ATGATAT, -	STY1600	100	STY3196	65.347	STY1600	100	STY0798
ATGAGCC +	STY1617	100	STY2806	53.398	STY1617	100	STY2806
TTGAAAG +	STY2749	100	STY4352	63.107	STY2749	100	STY0188
ATGACAA +	STY3924	100	STY3361	60.396	STY3924	100	STY3361
ATGCGTA +	STY1413	100	STY3104	61.165	STY1413	100	STY3104
ATGAAAT(-	STY1602	100	STY0363	72	STY1602	100	STY0363
ATGTCAG +	STY1619	100	STY3712	66	STY1619	100	STY3712
ATGGCTG +	STY1636	100			STY1636	100	
ATGAAAA, -	STY4630	100	STY0481	61.165	STY4630	100	STY0481
ATGTTAA(+	STY4535	100			STY4535	100	
ATGCTTT(+	STY4566	100			STY4566	100	
GTGGCCA +	STY4584	100	STY0648	67	STY4584	100	STY0648
GTGAATT -	STY4601	100	STY2882	89	STY4601	100	STY2882
ATGTTGT -	STY4413	100	STY3947	69	STY4413	100	STY3947
ATGAGCC -	STY4610	100	STY1686	67.327	STY4610	100	STY1686
ATGAATA(-	STY4637	100	STY1767	61.765	STY4637	100	STY1767
ATGCCTG +	STY4544	100	STY2595	60	STY4544	100	STY2595

ATGAGTA +	STY4563	100	STY0105	92	STY4563	100	STY0798
ATGAACG -	STY4580	100	STY0932	56.436	STY4580	100	STY0932
ATGTTTCG -	STY4597	100	STY2205	74	STY4597	100	STY2205
ATGTACA -	STY1092	100	STY2841	59.615	STY1092	99.8	STY2841
ATGGCTA -	STY4423	100	STY0186	61.165	STY4423	98.3	STY4256
ATGAGCC -	STY0164	100	STY2573	52.427	STY0164	98.9	STY2573
ATGATGC +	STY0195	100	STY3820	57	STY0195	97.3	STY3820
ATGCAGG +	STY0219	100	STY0634	77.451	STY0219	98.1	STY0634
ATGTGGT -	STY0273	100	STY0560	66.667	STY0273	96.63	STY0560
ATGCCGAT -	STY3555	100			STY3555	99.1	
ATGAATA +	STY0703	100	STY2809	76	STY0703	98.75	STY2809
ATGAGAC -	STY0722	100	HCM2.010	49.505	STY0722	99.4	HCM2.010
	STY0206	69.608	STY3919	67	STY0592	47.39	STY4943
ATGAAAC -	STY3939A	100	STY2891	58.252	STY3939A	100	STY2891
ATGACTA +	STY3925	100	STY2439	80	STY3925	98	STY2439
ATGAAAA -	STY3933	100	STY2023	62.745	STY3933	98.4	STY2023
ATGAACA -	STY3894	100	STY3236	75.248	STY3894	99.1	STY3236
ATGCTAA -	STY4082	100	STY2294	59.615	STY4082	98.6	STY2294
GTGAAA +	STY0248	100	STY3247	87	STY0248	99.8	STY3247
ATGATCA +	STY0141	100	STY1089	62.136	STY0141	98.6	STY4881
	STY0343	87	STY0329	84	STY4848	57.4	STY0343
ATGTATG +	STY2910	100	STY0663	64.356	STY2910	98.7	STY0663
ATGCATA +	STY1583	100	STY0616	66.038	STY1583	98.5	STY0616
ATGGAAT +	STY4359	100	STY3397	57.009	STY4359	99.8	STY3397
ATGTTTA -	STY4316	100	STY1167	71.287	STY4316	98.2	STY1167
ATGGCGA -	STY4288	100	STY4875	86	STY4288	91.2	STY4875
	STY4387	65	STY3788	55.238	STY4387	24.07	STY3788
ATGCGTG -	STY4335	100			STY4335	67.93	
ATGCCGC -	STY4298	100			STY4298	98.23	
ATGACAA +	STY1867	100	STY3061	61.538	STY1867	100	STY3061
ATGAGCA -	STY1829	100	STY0043	68	STY1829	98.5	STY3593
ATGATGA -	STY2331	100			STY2331	98.7	
ATGGCTG +	STY4257	100	STY4426	77	STY4257	98.1	STY0467
ATGAGAC -	STY2333	100	STY0146	90	STY2333	99.2	STY3762
GTGGATC -	STY4616	99	STY3686	93	STY4616	96.2	STY3686
ATGCCCC +	STY0310	100	STY2123	74	STY0310	95.52	STY2123
ATGCCCA +	STY0358	100			STY0358	99.4	
ATGTCTC -	STY2324	100	STY3596	71.698	STY2324	99.1	STY3596
	STY3781	62.376	STY3380	61.538	STY3380	20.61	STY3781
	HCM2.005	63.107	STY3513	62.727	HCM2.005	20.38	STY3513
ATGCATA +	STY1106	100	STY4087	83.168	STY1106	97.1	STY2494
ATGAAAG +	STY0902	100	STY0854	58	STY0902	96.73	STY0854
	STY4221	61.818			STY4221	15.93	
	STY3305	51.456			STY3305	9.01	
ATGAAGG -	STY0928	100	STY2499	71	STY0928	99.4	STY2499
ATGAAAT -	STY2789	100	STY1750	64.706	STY2789	99.2	STY1750
	STY1256	41.584	STY0329	38	STY1256	7.68	STY0329
TTGCCCA -	STY2752	100	STY0163	64	STY2752	97.9	STY0163

ATGTCAT +	STY0987	100	STY2870	59.615	STY0987	97.6	STY2870
	STY4276	59.048			STY4276	6.03	
	STY1623	58			STY1623	31.17	
ATGAGTT -	STY2973	100	STY0572	61.905	STY2973	98.1	STY0572
ATGGCAT +	STY3047	100	STY0643	63.107	STY3047	98.6	STY4843
ATGTCCC +	STY2711	100	STY3236	87	STY2711	98.8	STY3236
ATGCTCA +	STY0943	100	STY2849	71.845	STY0943	98.9	STY0294
ATGGAAC +	STY0991	100	STY3789	63.462	STY0991	98.1	STY3789
	STY4617	54.455			STY4617	9.68	
	STY0803	65.347	STY3810	65.049	STY1636	26.17	STY1958
ATGCAGC +	STY4439	100	STY2179	57	STY4439	98.4	STY2404
ATGATGA +	STY4781	100	STY1330	60.396	STY4781	99.7	STY1330
ATGAACA -	STY2548	100	STY2973	66	STY2548	97.8	STY2547
ATGCTGG -	STY2574	99	STY1448	65.049	STY2574	98.9	STY4741
ATGAAAA +	STY1153	100	STY1446	70	STY1153	98.6	STY1446
ATGCTGA -	STY1861	100	STY0123	62.745	STY1861	98.1	STY0707
ATGGAAC -	STY1148	100	STY0013	69	STY1148	99.6	STY0013
ATGGTAG -	STY1088	100	STY4304	63	STY1088	99	STY4304
ATGCAAG -	STY2761	100	HCM1.34c	61.538	STY2761	93.2	STY2857
ATGCGTA +	STY0031	99	STY4938	64	STY0031	97.5	STY0589
GTGCCGC -	STY2194	100	STY2005	67.327	STY2194	70.61	STY4904
ATGAAGA +	STY2275	100			STY2275	96.6	
ATGAAAA +	STY2504	100	STY4841	62.5	STY2504	77.86	STY4841
TTGGCAG -	STY2196	100			STY2196	98.7	
ATGAAAC -	STY2278	100	STY3415	69	STY2278	99.1	STY3415
ATGAAAG -	STY2509	100	STY0754	62.264	STY2509	98.7	STY0754
ATGGACA +	STY2545	100	STY4928	59.804	STY2545	95.15	STY4928
ATGTATA -	STY2588	100	STY3097	64.035	STY2588	99.3	STY3097
ATGAAAA +	STY1227	100	STY4917	63.462	STY1227	88.72	STY0110
ATGCTCG +	STY1213	100	STY1666	61.538	STY1213	98.1	STY3387
ATGGCTC +	STY4352	100	HCM1.178:	66.055	STY4352	99.6	STY3871
ATGTCTA -	STY0373	100			STY0373	98.3	
ATGAAAA +	STY0184	100	STY0655	64.423	STY0184	98.3	STY0671
ATGTTTCG -	STY0484	100	STY0240	62.745	STY0484	99.6	STY4921
GTGAATA +	STY4470	100	STY3396	62.264	STY4470	98.4	STY2412
ATGCCGA +	STY4400	100	STY3342	63.303	STY4400	98.9	STY3342
ATGCACA -	STY0161	100	STY0494	81	STY0161	100	STY0494
ATGATGA +	STY2531	100			STY2531	98.4	
	STY0661	62.963			STY0661	7.04	
ATGTCAT +	STY1686	100	STY2936	61.765	STY1686	99.1	STY2936
ATGACCC +	STY0435	100	STY2546	57.282	STY0435	99.5	STY2546
ATGAGTT -	STY1709	100	STY1710	100	STY1709	70.43	STY1710
ATGGATG -	STY4424	100	STY4318	63.462	STY4424	99	STY4255
ATGCTGG +	STY0367	100	STY2476	65.686	STY0367	98.1	STY2476
ATGGCCC -	STY0188	100	STY3779	63	STY0188	99.3	STY3779
ATGATTA +	STY2208	100	STY4194	70.476	STY2208	99.1	STY1106
ATGACAA -	STY2644	100	STY1781	63.725	STY2644	98.7	STY3298
ATGATCT -	STY2537	100	STY0080	57	STY2537	98.6	STY0080
ATGCGTC +	STY2525	100	STY3195	66.337	STY2525	98.8	STY3195
ATGCATC +	STY2792	100	STY4762	60.396	STY2792	98.9	STY4762
ATGAAAC -	STY4811	100	STY0573	56	STY4811	99.8	STY4679
GTGGCG -	STY0583	100	STY4113	61.321	STY0583	98.3	STY4113

	STY3922	63.725	HCM2.005:	60.577	HCM2.005:	39.43	STY3922
ATGCCTG -	STY4917	100	STY1227	62.745	STY4917	98.8	STY1227
ATGAACC +	STY4095	100	STY0619	69.608	STY4095	99.7	STY0619
ATGACTA. +	STY4193	100	STY3447	69.307	STY4193	98.5	STY0911
ATGTCAC +	STY4282	100	STY4276	76	STY4282	98	STY4276
ATGATTT/ +	STY2647	100	STY0460	67	STY2647	98.5	STY0460
ATGTCGT +	STY2721	100	STY3753	59.804	STY2721	98.5	STY3753
ATGGTAG +	STY0957	100	STY0018	62.264	STY0957	99.8	STY1005
ATGCAGC +	STY0618	100	STY2797	60.194	STY0618	98.8	STY2797
ATGACAA -	STY4776	100	STY2928	87	STY4776	99.6	STY3654
ATGTCTT(-	STY4897	100	STY2816	62.857	STY4897	80.96	STY2870
ATGCGTC +	STY4060	100	STY3076	71.963	STY4060	98.7	STY3076
ATGGTTA -	STY3391	100	STY0810	62.376	STY3391	99	STY4492
ATGAAAA +	STY3437	100	STY2439	70.297	STY3437	99.2	STY3925
ATGATCC -	STY4059	100	STY3871	88	STY4059	99.2	STY3871
	STY4881	97	HCM2.001:	63.81	STY4881	19.57	HCM2.001:
ATGATGC +	STY0136	100	STY1357	76	STY0136	99.2	STY1357
ATGCTTT(-	STY3011	100	STY2697	50.98	STY3011	99.1	STY2697
ATGCAGA +	STY0779	100	STY0896	71.429	STY0779	99	STY0880
ATGAGCA +	STY4498	100	STY4043	71	STY4498	99.3	STY4043
ATGAGCA -	STY2862	100			STY2862	99.8	
ATGAGCA +	STY2796	100	STY1567	60	STY2796	99.3	STY1567
ATGAGCT +	STY2281	100	STY2155	79	STY2281	99.2	STY2155
ATGAATA(-	STY0365	100	STY2493	78.641	STY0365	99	STY1002
ATGAAAT +	STY0539	100	STY3765	61.538	STY0539	98.6	STY3765
ATGTACT, +	STY1079	100			STY1079	99.3	
ATGAAAA(-	STY4519	99			STY4519	97.3	
ATGAAAA -	STY3808	100	STY2681	72	STY3808	96.5	STY2681
ATGAGCC -	STY0714	100	STY2545	49.02	STY0714	98.9	STY2545
ATGAAAA +	STY0764	100	STY0219	62	STY0764	99.4	STY0219
ATGGCAG +	STY2244	100	STY2755	58.491	STY2244	98.3	STY2755
ATGAAAC -	STY4510	100			STY4510	98.1	
ATGAGTG -	STY2159	100	STY2581	82	STY2159	98.3	STY0924
ATGGACA +	STY1386	100	STY0430	64.815	STY1386	98	STY4196
	STY4459	100	STY4458	66.337	STY4459	97.8	STY4458
ATGCAGA +	STY0067	100	STY0673	75	STY0067	98.5	STY0673
	STY1853	94.34	STY1853	53.922	STY1853	95.5	STY1853
ATGCAAC +	STY3709	100	STY1226	51	STY3709	95	STY1226
ATGACAG -	STY2782	100	STY4816	71	STY2782	98.5	STY4816
ATGAATA(+	STY2247	100	STY2122	53.271	STY2247	99.21	STY2122
ATGTTAT -	STY4500	100	STY4684	68	STY4500	99.1	STY4684
ATGAAAA -	STY2140	100	HCM2.005:	90	STY2140	98.6	HCM2.005:
ATGAGCT +	STY1234	100	STY1333	65.714	STY1234	99.9	STY2401
ATGACCA +	STY1400	100	STY3832	63	STY1400	98.5	STY1459
ATGACAT(+	STY2854	100	STY2855	58	STY2854	99.2	STY2855
ATGCTGA -	STY0005	100	STY0836	65	STY0005	99.5	STY4054
ATGGAGA -	STY3988	100	STY0897	79	STY3988	99.4	STY0897
TTGAATC(-	STY1648	100	STY2295	59.223	STY1648	95.8	STY2295
ATGCAGC +	STY3839	100	STY1193	61	STY3839	99.8	STY3874
GTGGATA -	STY3590	100	STY4707	74.257	STY3590	99.6	STY4707
ATGACGC +	STY3623	100	STY4090	66.667	STY3623	98.7	STY4090

ATGTCTA -	STY3226	100	STY4114	58.879	STY3226	98.91	STY3076
ATGGGCC +	STY2184	100	STY0076	60.577	STY2184	99.5	STY0076
ATGGTTT +	STY2665	100	STY2598	66	STY2665	86.24	STY2598
ATGAATG +	STY1916	100	STY1527	65.686	STY1916	99.5	STY1527
ATGAACA -	STY3468	100	STY0167	57.426	STY3468	99	STY0167
ATGAAAA +	STY3109	100	STY3426	72	STY3109	99.5	STY3426
ATGATTG +	STY3820	100	STY0676	64.151	STY3820	98.5	STY4126
ATGGCTG -	STY3584	100	STY4884	56	STY3584	98.5	STY4884
GTGGCGC -	STY3601	100	STY0730	62.745	STY3601	97.94	STY0730
ATGTCCG +	STY3603	100	STY2101	62.136	STY3603	100	STY2101
ATGCGTC +	STY0533	100	STY0228	71	STY0533	98.39	STY0228
ATGTCTA -	STY3739	100	STY4353	100	STY3739	99.4	STY4353
ATGAGTA +	STY2178	100			STY2178	99.1	
ATGAGCC -	STY3075	100	STY2616	64.151	STY3075	95.66	STY2616
GTGTCAA -	STY3137	100	STY2341	58.416	STY3137	98.2	STY2341
ATGTTGA +	STY1375	100	STY2494	62.5	STY1375	99	STY2494
ATGCTCA -	STY0547	100	STY2236	62.5	STY0547	99.2	STY3899
ATGGGAT -	STY0574	100	STY1647	63.366	STY0574	99.2	STY1588
	STY1960	64.356	STY4015	60.748	STY4015	49.8	STY1960
ATGATCG -	STY1435	100	STY2160	65	STY1435	99.3	STY2160
ATGCAGC -	STY1340	100			STY1340	99.2	
ATGCACT +	STY1291	100	STY1485	79	STY1291	97.9	STY1485
TTGGATG +	STY1929	100	STY4388	61.165	STY1929	98.7	STY3809
ATGTTTG +	STY1963	100	HCM1.255	61.468	STY1963	99.4	HCM1.255
ATGGACC -	STY1995	99	STY2631	90	STY1995	92.27	STY2631
ATGGCGT -	STY2115	100	STY2697	66.337	STY2115	98.9	STY3933
ATGAAAT +	STY0535	100	STY2562	63.208	STY0535	99.2	STY2562
GTGAATC +	STY1530	100	STY2962	64	STY1530	98.9	STY2962
ATGGACC +	STY1537	100	STY4736	66.038	STY1537	98.9	STY0277
ATGTCCG -	STY0973	100	STY3423	88	STY0973	99.1	STY3423
ATGACGC -	STY0670	100	STY0070	86	STY0670	98.6	STY0070
ATGAATA +	STY1501	100	STY2435	57.692	STY1501	99.7	STY2435
ATGTTGG -	STY1471	100	STY1502	62.376	STY1471	98.5	STY1502
ATGACCA -	STY4205	100	HCM1.158	64.078	STY4205	98.7	HCM1.231
ATGCCGC +	STY4166	100	STY0221	80.198	STY4166	98.8	STY0221
	STY3186	61.386			STY3186	8.39	
ATGATGA -	STY4064	100	STY0889	75.248	STY4064	98.4	STY0889
ATGGTCG -	STY3094	100	STY4050	70	STY3094	97.6	STY4050
ATGTCAG +	STY2867	100			STY2867	91.13	
ATGGAAT +	STY0414	100	STY1191	74	STY0414	64.87	STY1191
	STY0477	100	STY0478	99	STY0476	41.02	STY0477
ATGAAGA +	STY0507	100	STY1863	66.038	STY0507	99.2	STY2340
	STY2661	58.491	STY1410	50.495	STY2661	7.28	STY1410
ATGTATA +	STY4138	100	STY4122	64.423	STY4138	99.2	STY3784
ATGCCGC +	STY4105	100	STY0146	62.857	STY4105	70.57	STY0146
ATGCGAC -	STY4745	97	STY2289	57.282	STY4745	96.35	STY2289
ATGATGC +	STY0421	100	STY0631	65.741	STY0421	100	STY1309
ATGCAAT -	STY0460	100	STY2647	65	STY0460	98.2	STY2647
ATGACGC +	STY3333	100	HCM1.123	62.5	STY3333	88.63	STY3769
ATGAGCA -	STY2969	100	STY2557	70.297	STY2969	99	STY2557
ATGAAAC -	STY4134	100	STY4793	70.297	STY4134	98.55	STY0182
ATGATGA -	STY3515	100	STY2337	65	STY3515	98.1	STY4806

ATGAAAC -	STY3446	100	STY0254	74.257	STY3446	91.8	STY0254
ATGGAAC -	STY3326	100	STY2734	63.725	STY3326	98.2	STY2734
ATGTTTG†+	STY0396	100	STY0218	63.551	STY0396	98.06	STY0218
ATGCTTA,+	STY2925	100	STY3409	63	STY2925	96.46	STY3409
ATGCATA`-	STY2436	100	STY4114	59.615	STY2436	99.2	STY4058
	STY0405	100	STY0255	56.863	STY0405	46.29	STY0255
ATGCATC +	STY2413	100	STY3760	62.745	STY2413	99.7	STY3760
ATGAAAA`-	STY2294	100	STY0522	59.804	STY2294	98.3	STY0522
ATGACTG +	STY2370	100	STY1969	65.741	STY2370	98.1	STY1969
ATGCGTG-	STY2404	100	STY3564	67.308	STY2404	98.5	STY3564
ATGGCAA +	STY4381	100			STY4381	99.7	
ATGAATA,-	STY2320	100			STY2320	99	
ATGTCTT†+	STY2397	100			STY2397	99.6	
ATGAAAC +	STY0283	100	STY4237	61	STY0283	99.2	STY4237
ATGACTC -	STY4176	100	STY0746	64.356	STY4176	99.4	STYrarB
ATGAGTG-	STY4265	100	STY3951	63	STY4265	97.8	STY3951
ATGGATA -	STY3486	100	STY0007	61	STY3486	99.3	STY0007
ATGAAAT`+	STY4741	99	STY2574	67	STY4741	92	STY4111
ATGATTG`+	STY4806	100	STY3515	62	STY4806	98.5	STY3515
ATGAAAT,+	STY4934	100			STY4934	95.67	
ATGGCTC +	STY4052	100	STY0638	67.619	STY4052	99.4	STY3124
ATGACCC +	STY3476	100	STY4563	86	STY3476	100	STY3021
ATGAAAT,+	STY3408	100	STY3467	64.423	STY3408	99.5	STY3493
ATGTTTG`+	STY3529	100	STY3528	76	STY3529	99.3	STY0231
ATGAACT†+	STY3445	100	STY3044	68	STY3445	99.4	STY3044
ATGGCTA +	STY3405	100	STY4482	60.194	STY3405	99	STY4482
ATGTATG`+	STY0677	100	STY4805	64.423	STY0677	98.2	STY4805
ATGAAAC.+	STY0192	100	STY4267	60.396	STY0192	98.3	STY4267
ATGAATG +	STY0762	100	STY0765	59.259	STY0762	98.7	STY0765
ATGAGCC +	STY4704	100	STY3196	62	STY4704	99.3	STY3196
ATGAAAC -	STY1715	100	STY2520	58.416	STY1715	97.8	STY2520
ATGATGG-	STY1539	100	STY2479	72.277	STY1539	99.7	STY2479
	STY4017	52	STY4654	50	STY4017	6.15	STY4654
GTGGGAC +	STY0843	100	STY0841	75.238	STY0843	99.1	STY0841
	HCM1.87	59.406	STY0981	48.571	HCM1.87	9.34	STY0981
	STY4878	34			STY4878	20.61	
	STY2517	60.784	STY4849	52	STY2517	23.29	STY4849
ATGAAAC +	STY0512	100	STY3774	55	STY0512	99.2	STY3774
ATGACGA -	STY3104	100	STY1413	59.434	STY3104	97.9	STY3332
GTGGCG†+	STY3242	100	STY2449	66	STY3242	52.17	STY2216
	STY0765	28			STY0765	15.31	
ATGGCTG +	STY4469	100	STY3836	62.727	STY4469	99.8	STY4008
	STY1612	79	STY1336	62.136	STY1612	59.72	STY1336
ATGAATG -	STY4472	100	STY3933	62.385	STY4472	99.4	STY4193
	STY0308	58.095	STY4234	57.009	STY0308	24.59	STY4234
ATGGCAA +	STY4376	99	STY1515	62.037	STY4376	99.4	STY1515
	STY1509	60.952	STY1020	60.396	STY1020	31.09	STY1509
ATGGTAA +	STY4912	100	STY4707	59.406	STY4912	100	STY4707
ATGTTTA(-	STY1496	100	STY2260	54	STY1496	100	STY2260
ATGAAAG -	STY4622	100	STY3680	96	STY4622	99.5	STY3680
ATGAAAA`-	STY0672	100	STY0068	66.337	STY0672	99.7	STY0068
ATGGCCA-	STY0951	100	STY0628	52	STY0951	100	STY0628

ATGACGC -	STY4621	100	STY3681	90	STY4621	99.1	STY3681
ATGAGGT -	STY0162	100	STY2109	64.706	STY0162	99.4	HCM2.012
GTGAATG +	STY0303	100	STY0554	64.423	STY0303	99.6	STY1832
GTGTTAA -	STY0199	100			STY0199	96.6	
ATGCCAA +	STY0422	100	STY1721	35	STY0422	99.5	STY1721
ATGAAAA +	STY0021	100	STY4431	63.208	STY0021	97.6	STY4945
GTGGCTT -	STY3332a	100	STY4578	59.406	STY3332a	100	STY4578
ATGTTCG +	STY1983	100	STY4883	43	STY1983	99.5	STY4883
ATGAAAA +	STY1480	100	STY1391	69	STY1480	99.5	STY1391
ATGCAGC +	STY0513	100	STY4721	59.804	STY0513	100	STY4721
ATGTGTG -	STY1968	100			STY1968	100	
ATGAAAT(-	STY1495	100	STY1149	74.757	STY1495	98.6	STY1149
ATGTTAG +	STY0813	100	STY3109	56.311	STY0813	96.15	STY3109
	STY0757	60.784			STY0757	8.57	
	STY4479	60.952	STY0802	57.407	STY0802	31.58	STY4479
	STY2504	51	STY3775	43	STY2504	20.72	STY2040
	STY4661	63.208	STY4064	60.194	STY4661	14.9	STY4064
	STY0140	50.98			STY0140	4.3	
	STY0747	66.038	HCM1.100	60.194	HCM1.100	17.11	STY0747
	STY3005	61.905			STY3005	35.14	
	STY1765	59.259	STY0804	32	STY1765	21.66	STY0804
	HCM1.243	68	STY2685	65.347	HCM1.243	35.59	STY4303
	STY4611	83	STY4387	59.048	STY4611	29.69	STY4387
	STY3624	64.356			STY3624	12.02	
	STY0490	60.377			STY0490	11.96	
	STY3098	100	STY3099	77	STY3098	97.6	STY3099
	STY3110	100	STY1956	79.208	STY3110	97.9	STY1956
	STY4791	61.386	STY3889	46	STY4791	7.01	STY3889
TTGTTGC -	STY1499	100	STY1751	56.863	STY1499	100	STY1751
ATGATTG -	STY1605	100			STY1605	100	
ATGGGAA +	STY1621	100	STY2479	62.376	STY1621	100	STY2479
ATGAATA +	STY1639	100	STY3692	67	STY1639	100	STY3692
ATGGGGC +	STY2005	100	STY2194	69	STY2005	100	STY4904
ATGGCTA -	STY2028	100	STY1059	91	STY2028	100	STY1059
TTGAGTC +	STY1607	100	HCM1.137	54.369	STY1607	100	HCM1.137
ATGAACG +	STY1623	100	STY0631	49.02	STY1623	100	STY0631
ATGAAAA +	STY1649	100	STY2203	89	STY1649	100	STY2203
ATGAGCA -	STY2007	100	STY0194	78.095	STY2007	100	STY3227
TTGAGCA -	STY2030	100	STY1057	87	STY2030	100	STY1057
ATGGATT -	STY3192	100			STY3192	100	
ATGAGAT -	STY1014	100	STY4312	67	STY1014	100	STY4312
ATGGTAG +	STY1041	100	STY3458	60.377	STY1041	100	STY3458
ATGGGGC +	STY1057	100	STY2030	87	STY1057	100	STY2030
ATGGAAT +	STY1073	100	STY2013	100	STY1073	100	STY2013
ATGTCAC +	STY3277	100			STY3277	100	
ATGGAAA -	STY0063	100	STY3531	100	STY3531	100	STY0063
	STY1043	100	STY4816	60.577	STY1043	100	STY4816
ATGTCTA +	STY1059	100	STY2028	91	STY1059	100	STY2028
ATGGCGA -	STY2034	100	STY1053	98	STY2034	100	STY1053

ATGGTCA +	STY3279	100	HCM1.203	64	STY3279	100	STY1396
ATGTATA +	STY2075	100	HCM1.122	59	STY2075	100	STY1518
TTGAAGT -	STY2353	100	STY0971	59.804	STY2353	100	STY0971
GTGCATG +	STY4524	100	STY3991	61.386	STY4524	100	STY3991
ATGTGTG +	STY4548	100	STY1450	64.762	STY4548	100	STY3000
ATGAGCC +	STY4568	100	STY4467	60.396	STY4568	100	STY4467
ATGAAAG -	STY4585	100	STY4858	86	STY4585	100	STY4858
ATGATGA -	STY4602	100	STY2883	85	STY4602	100	STY2883
ATGTTTA -	STY4414	100	STY2541	63	STY4414	100	STY2541
	STY3689	100	STY4613	100	STY4613	100	STY3689

GTGCCTG +	STY1906	100	STY4404	61.321	STY1906	99.4	STY2096
ATGCTAA -	STY0123	100	STY0911	78	STY0123	98.3	STY0911
ATGAGTA -	STY3519	100	STY1169	72	STY3519	99.1	STY1169
ATGGTGC -	STY3552	100	STY2973	58.252	STY3552	99.8	STY2973
ATGAATA -	STY0237	100			STY0237	99	
ATGACAC -	STY0720	100	STY1576	68.627	STY0720	98.9	STY1576
CTGGTAA +	STY3569	100	STY0520	86	STY0520	65.3	STY3569
ATGCTGG +	STY0260	100	STY3808	51.485	STY0260	99.5	STY3808
	STY1545	100	STY3353	61	STY1545	80.69	STY3353
ATGAAAA -	STY2172	100	STY2960	66	STY2172	96.48	STY2960
ATGATCA -	STY4085	100	STY2109	62.745	STY4085	99.4	STY2109
ATGAAAA -	STY2229	100	STY0635	65	STY2229	98.5	STY0635
ATGAAAA +	STY2171	100	STY4484	90	STY2171	98.7	STY4484
ATGCTAA -	STY2236	100	STY2480	62.745	STY2236	99	STY4000
ATGTTTCG -	STY2205	100	STY2466a	83	STY2205	98.7	STY4597
ATGAGTG +	STY0055	100	STY0699	61	STY0055	98.6	STY0699
ATGAAAA -	STY0095	100	STY1058	58.416	STY0095	99	STY1058
ATGCAAA -	STY3490	100	STY0183	65.049	STY3490	99.5	STY3888
	STY3792	65.421	STY1134	63.366	STY1942	11.69	STY1134
ATGAGGA +	STY1087	100	STY1392	55.34	STY1087	99.4	STY1392
ATGATGA +	STY1143	100	STY0747	62.745	STY1143	98.59	STY4156
ATGAATA +	STY1188	100	STY4466	61.905	STY1188	98.9	STY4466
ATGGGCA +	STY1239	100	STY0507	60.377	STY1239	99.7	STY2271
ATGTATT +	STY1260	100	STY3785	62.376	STY1260	98.8	STY0426
ATGAAAA +	STY1168	100	STY3821	65	STY1168	99.2	STY3821
ATGAAAA +	STY1226	100	STY3550	76	STY1226	98.5	STY3550
GTGAATA +	STY1252	100	STY1843	61.165	STY1252	98.9	STY1843
	STY2522	67	STY4459	62.745	STY2522	43.06	STY1972
ATGAAAA -	STY4239	100	STY4021	58.416	STY4239	99.2	STY4021
ATGCCGT +	STY4918	100	STY3128	55	STY4918	99.5	STY3128
ATGACGC -	STY1857	100	STY3502	55	STY1857	98.6	STY3502
ATGATTA +	STY1827	100	STY1690	61.905	STY1827	99.3	STY1690
	STY4106	50.495			STY4106	8.88	
ATGCGAC +	STY0002	100	STY3768	68.317	STY0002	98.8	STY4416
	STY2353	62.5	STY0203	62.385	STY2353	10.17	HCM1.190
	STY4322	59.048	STY3309	59	STY3309	9.27	STY4322
ATGAGTC -	STY4902	100	STY1218	68.317	STY4902	99.8	STY1218

ATGCGCA+	STY4936	100	STY2343	93	STY4936	98.9	STY2343
ATGGCAG+	STY0317	100	STY0318	73	STY0317	83.32	STY2184
	STY0329	93	STY4848	62	STY4848	33.21	STY0329
ATGATTC+	STY2909	100			STY2909	98.9	
ATGGTTA+	STY1127	100	STY3361	63.81	STY1127	98.4	STY3361
ATGCGTC-	STY2621	100	STY3164	68	STY2621	99.3	STY3164
ATGAAAC+	STY2661	100	STY3057	68.269	STY2661	99.4	STY3057
ATGAAAT+	STY2716	100	STY0961	59	STY2716	98.9	STY0961
ATGTCAA-	STY0948	100	STY4025	85	STY0948	99	STY4025
ATGACTG+	STY0981	100	STY4292	63.107	STY0981	99.5	STY4292
ATGGCGC+	STY1034	100	STY2052	70	STY1034	98	STY2052
ATGCGTC-	STY0953	100	STY3748	61	STY0953	98.9	STY2110
ATGCTGG-	STY2811	100	STY3813	68	STY2811	95.28	STY3813
GTGCATG+	STY3847	100	STY1831	86	STY3847	98.7	STY1831
ATGGAAC+	STY3758	100	STY0503	62	STY3758	99.1	STY0503
GTGATAC-	STY2989	100	STY2714	54	STY2989	98.9	STY2714
TTGCGCT+	STY4687	100	STY3823	67.925	STY4687	91.89	STY3823
ATGCAA-	STY2725	100			STY2725	98.7	
GTGATTC-	STY2781	100	STY3380	64.486	STY2781	98.7	STY3380
ATGGATA-	STY2816	100	STY2661	73	STY2816	98.8	STY2661
ATGAGCT+	STY3830	100	STY2698	74	STY3830	98.34	STY3112
ATGACTG+	STY3784	100	STY0723	60.784	STY3784	99	STY4138
ATGAATC-	STY3751	100	STY4545	62.745	STY3751	97.92	STY4545
ATGAAAA+	STY2513	100	STY3498	82.178	STY2513	99.3	STY3498
ATGAACA+	STY4884	100	STY2730	72.115	STY4884	95.8	STY2330
ATGAAAA-	STY2131	100			STY2131	99.7	
ATGACGT-	STY1788	100			STY1788	99.4	
ATGTCCG+	STY0402	100			STY0402	97.5	
ATGAAAG+	STY4433	100	STY4180	57.407	STY4433	99.04	STY4180
ATGACGA+	STY2983	100	STY2778	59.223	STY2983	98.9	STY2778
ATGATTA+	STY1677	100	STY1252	60.396	STY1677	99.1	STY1252
ATGGTAG+	STY4754	100	STY0438	78	STY4754	96.77	STY0438
	STY2317	59.223	STY1170	59	STY1170	12.96	STY2317
ATGTGCG+	STY4787	100			STY4787	98.9	
ATGATTA-	STY4761	100	STY1961	63.366	STY4761	98.7	STY3765
	STY3053	65.385			STY3053	17.8	
ATGAGCA-	STY4794	100			STY4794	94.3	
	STY3855	64	STY0146	62.745	STY0146	2.2	STY2969
	STY4303	61.386			STY4303	13.38	
GTGATGA-	STY1864	100	STY3738	63.725	STY1864	99	STY0889
ATGAGAT+	STY1571	100	STY2395	82	STY1571	98.9	STY2395
ATGCACG-	STY3978	100	STY4284	69.903	STY3978	98.7	STY4270
ATGTCAA-	STY3951	100	STY1728	88	STY3951	98.4	STY1728
ATGGAGT+	STY0392	100	STY0786	68	STY0392	98.9	STY1919
ATGTCCG+	STY0087	100	STY4473	70.588	STY0087	97.8	STY4473
ATGGCCT+	STY0174	100	STY1521	64	STY0174	99.6	STY4103
ATGCCGC+	STY4434	100	STY4434	54.369	STY4434	99.4	STY4434
ATGATAA-	STY2560	100	STY1578	63.725	STY2560	99	STY1578
ATGTCTC-	STY1768	100	STY0803	75.248	STY1768	99.6	STY0803
ATGCTGG-	STY0898	100	STY4126	62.037	STY0898	99.7	STY4126
ATGAATA+	STY1664	100	STY4132	65.094	STY1664	99.1	STY0184

ATGCCCG+	STY1565	100	STY0962	84	STY1565	98.48	STY0962
GTGAAGA-	STY1562	100	STY0707	93	STY1562	97.27	STY0707
ATGACAA+	STY3991	100	STY1389	71	STY3991	98.7	STY1389
ATGTCGG-	STY2820	100	STY1489	62.136	STY2820	99.5	STY1489
ATGCGCC+	STY0442	100	STY1513	66.337	STY0442	98.1	STY1513
ATGGCAA+	STY4409	100	STY1352	63.462	STY4409	98.9	STY2720
ATGTCCG-	STY2599	100	STY4476	63	STY2599	99.6	STY2553
ATGTTCC+	STY0381	100	STY1240	59.223	STY0381	81.5	STY1240
ATGGTTA-	STY2772	100	STY1958	67	STY2772	98	STY1958
GTGCGAT+	STY0503	100	STY0985	64	STY0503	98.2	STY0985
ATGGATA+	STY0614	100	STY3936	62.136	STY0614	98.6	STY3936
ATGTTGA-	STY1782	99	STY4879	60.377	STY1782	96.5	STY4879
ATGAGTT-	STY4767	100	STY2258	57	STY4767	98.6	STY2258
ATGGCAA-	STY4815	100	STY4184	63.107	STY4815	99	STY4184
ATGAACG-	STY2841	100	STY4920	69	STY2841	99.1	STY4920
ATGGATG+	STY3378	100	STY1897	61.468	STY3378	99.1	STY1897
ATGAAGG-	STY3423	100	STY0973	87	STY3423	99	STY0973
ATGGAGC+	STY3457	100	STY1604	58.824	STY3457	98.8	STY1604
ATGGCTG+	STY3770	100	STY2777	53.846	STY3770	99.4	STY2777
	STY1742	100	STY0894	52.427	STY1742	46.41	STY0894
ATGACAG-	STY0514	100	HCM2.004	56.311	STY0514	99.6	HCM2.004
ATGCAAC+	STY2911	100	STY4876	70.874	STY2911	98.8	STY4876
	STY2268	64.706	STY1226	60.577	STY1226	6.13	STY2268
ATGCAGA-	STY2832	100			STY2832	99.5	
	STY3370	100	STY3771	68	STY3370	98.3	STY3771
ATGAGCG+	STY4181	100	STY2691	60.396	STY4181	99.1	STY0637
ATGAGTA+	STY3452	100	STY2950	58.654	STY3452	99.6	STY2950
ATGTCTT-	STY1701	100	STY2187	71	STY1701	98.9	STY2187
GTGACCC+	STY2740	100	STY2182	65.094	STY2740	98.7	STY0004
ATGGCTA+	STY1160	100			STY1160	99.1	
ATGAAAT+	STY2933	100	STY2507	56.19	STY2933	99.2	STY2507
ATGAAAC-	STY0292	100	STY4241	60.55	STY0292	98.9	STY4241
ATGGTTA-	STY3005	100	STY3005	53	STY3005	98.4	STY3005
ATGAGGC+	STY4295	100	STY2343	66.019	STY4295	99	STY3813
ATGCCTT-	STY1357	100	STY4170	67	STY1357	99.1	STY4170
ATGACTT+	STY3826	100	STY4111	74	STY3826	98.9	STY4111
ATGCGCA-	STY0598	100	STY2158	61.165	STY0598	98.1	STY2158
ATGCCGA-	STY1264	100	STY1462	61.165	STY1264	96.5	STY1462
ATGACTG-	STY1201	100	STY1201	61.165	STY1201	98	STY1201
ATGAGCC+	STY4326	100	STY1370	63.366	STY4326	98.7	STY1370
GTGACTG+	STY3838	100	STY3153	64.151	STY3838	93.08	STY0026
ATGAAAC-	STY0691	100	STY2118	77	STY0691	98.7	STY2118
ATGAAAG-	STY0277	100	STY2660	66	STY0277	96.7	STY3037
	STY1665	100	STY3132	63.107	STY1665	87.73	STY0793
ATGTTAA-	STY3007	100			STY3007	99.6	
ATGACTC-	STY1210	100			STY1210	99.3	
ATGGATA-	STY4450	100	STY0553	70	STY4450	99.1	STY0634
ATGACGA+	STY2874	100	STY4089	58.095	STY2874	91.29	STY4089
ATGAAAA+	STY0042	100	STY4850	60.952	STY0042	99.7	STY4850
ATGAGTA+	STY3740	100	STY2724	62.963	STY3740	99.6	STY2724
ATGGCAA+	STY4108	98	STY4295	57	STY4108	96.7	STY4295
ATGGCTA+	STY3913	100	STY2180	69	STY3913	98.8	STY2180

ATGAAA +	STY0429	100	STY0669	64.078	STY0429	97.43	STY0669
ATGGATG -	STY3012	100	STY2188	63	STY3012	100	STY1700
ATGAATC -	STY2270	100	STY1736	68	STY2270	96.31	STY4477
ATGAGTA -	STY2126	100	STY1733	67	STY2126	99.2	STY1733
GTGAAAT +	STY1342	100	HCM2.000	63	STY1342	100	STY4214
ATGAAAG +	STY1729	100	STY3285	72.277	STY1729	98.6	STY3285
ATGAGAG +	STY4072	100			STY4072	98.2	
ATGAAA +	STY0382	100	STY4879	60	STY0382	99.1	STY4879
ATGAATG +	STY3723	99	STY0884	67	STY3723	88.4	STY0884
ATGCATT -	STY3574	100	STY0890	60.185	STY3574	99.1	STY0890
GTGGCAA -	STY2767	100			STY2767	99	
GTGCAGC -	STY3631	100	STY0385	61.321	STY3631	99.3	STY0385
ATGGCGC -	STY3652	100	STY3427	66	STY3652	98.9	STY3427
ATGATTG +	STY1290	100	STY1486	78	STY1290	98.3	STY1486
ATGAGCA +	STY1918	100	STY1530	65.686	STY1918	99.3	STY1530
ATGAAGC -	STY1316	100	STY0487	63.107	STY1316	99.3	STY0167
ATGCCGC -	STY0167	100	STY0119	63.208	STY0167	99.2	STY3468
ATGCTAA -	STY0465	100	STY2875	60.748	STY0465	97.96	STY2875
ATGAAAC +	STY3842	100			STY3842	99.2	
ATGGCAT -	STY1725	100	STY1220	93	STY1725	99.4	STY1220
ATGAAA +	STY0594	99	STY1055	63.889	STY0594	97.4	STY0029
ATGAAGC -	STY3611	100	STY3152	53.846	STY3611	98.7	STY3152
ATGGCTA -	STY3648	100	STY2701	71	STY3648	97	STY2701
ATGACAC +	STY0209	100	STY2834	57	STY0209	98.39	STY0004
ATGGAGA +	STY1960	100	STY0156	60.952	STY1960	99.6	STY0156
ATGGGAT +	STY1910	100	STY0492	64.706	STY1910	98.7	STY0804
GTGCTGC -	STY3019	100	STY2122	77	STY3019	99.3	STY1706
ATGGACC -	STY0517	100	STY1816	62	STY0517	99.7	STY3268
ATGCAA +	STY1523	100	STY1913	87	STY1523	98.6	STY1913
ATGAATC +	STY1544	100	STY0101	62.857	STY1544	99.2	STY0101
ATGGGAA +	STY0964	100	STY1568	88	STY0964	99.7	STY1568
ATGAGTA +	STY0659	100	STY0962	77	STY0659	97.3	STY1288
ATGACAA +	STY1515	100	STY0398	60.952	STY1515	38.15	STY0398
	STY3841	83	STY2270	63.366	STY3841	71.87	STY0963
ATGCCAA -	STY1462	100	STY1264	63.81	STY1462	97.47	STY1264
	STY3394	84	STY4892	84	STY2128	39.09	STY4892
ATGAAGA -	STY1421	100	STY3917	88	STY1421	98.1	STY3116
ATGCGCT +	STY1354	100	STY2870	62.745	STY1354	98	STY2870
ATGATAG +	STY0554	100	STY4170	82	STY0554	99.1	STY4170
ATGATTG +	STY0559	100	STY0274	71	STY0559	99.1	STY0274
ATGGTTA -	STY0584	100	STY4324	71	STY0584	99.8	STY4324
ATGTCAC +	STY0639	100	STY2541	64	STY0639	98.4	STY2541
ATGAATG -	STY4615	100	STY3687	89	STY4615	97.6	STY3687
ATGCGTG +	STY1284	100	STY2762	65.094	STY1284	99.3	STY2762
ATGGAGA +	STY1935	100	STY4774	62.136	STY1935	98.9	STY1445
	STY3668	100	STY4635	100	STY3668	83.69	STY4635
ATGATGG +	STY3156	100	STY3155	80	STY3156	90.44	STY2425
ATGACAA +	STY4113	100			STY4113	98.6	
ATGAGTT +	STY4041	100	STY4041	50	STY4041	99.1	STY4041
ATGAGCC -	STY3342	100	STY1738	81	STY3342	98.4	STY2404
ATGTCCG +	STY3148	100	STY1226	58.879	STY3148	99.3	STY1226
	STY4415	61.765	STY0508	59	STY4415	11.16	STY0508

ATGGCTA +	STY3308	100	STY0711	57.547	STY3308	98.7	STY0711
ATGGCTG +	STY2936	100	STY2392	61.765	STY2936	98.8	STY2392
ATGTTCT(+	STY2923	100	STY4283	60	STY2923	98.9	STY4283
ATGCAGC +	STY3562	100			STY3562	98.5	
	HCM1.57c	59.223	STY1257	59	HCM1.57c	18.31	STY1257
ATGGCCC -	STY3211	100	STY2797	64.356	STY3211	99.1	STY2797
	STY3242	100	STY2449	66	STY3242	64	STY3437
ATGTCAG +	STY3293	100	STY2472	65.385	STY3293	97.7	STY1285
GTGACAA -	STY0511	100	STY4462	70	STY0511	98.8	STY4462
ATGCAAG -	STY4194	100	STY4489	85	STY4194	98.9	STY4489
	STY0829	60.784	STY4095	50	STY0829	24.62	STY4095
ATGCTGT +	STY4743	100	STY4120	76.238	STY4743	98	STY4120
ATGAATA +	STY4813	100	STY2352	63.366	STY4813	99.3	STY2352
ATGTTGA +	STY4937	100			STY4937	98.3	
ATGAGTC +	STY2963	100	STY1549	66.355	STY2963	98.3	STY0612
ATGGCGA +	STY2410	100	STY1337	69	STY2410	99.79	STY1337
ATGAACG -	STY2292	100	STY2496	56.436	STY2292	98	STY2496
ATGTATT -	STY2924	100			STY2924	99.1	
ATGCCAT -	STY2427	100			STY2427	99.6	
ATGACAA -	STY2315	100			STY2315	98.6	
ATGAAGC -	STY2406	100	STY3523	62	STY2406	99.4	STY1344
GTGAAAT -	STY1927	100	STY3267	62	STY1927	99	STY3267
ATGAGCA -	STY4122	100	STY0190	62.376	STY4122	97.2	STY0286
	STY2271	60.396	STY3731	60	STY3731	8.18	STY2271
ATGGCAA -	STY1972	100	STY2522	69	STY1972	99.6	STY2522
ATGTACA -	STY4106	100	STY4824	64.762	STY4106	96.5	STY4824
ATGCAGA +	STY4357	100	STY4727	61.321	STY4357	99.7	STY4727
ATGAATG +	STY4717	100	STY3644	60.194	STY4717	99.6	STY3644
ATGATTA(-	STY3422	100	STY1956	87	STY3422	98.4	STY3110
ATGAAGT -	STY3480	100	STY2986	64.423	STY3480	99.1	HCM2.007
ATGTCTT(-	STY3395	100	STY2128	83	STY3395	98.6	STY4892
ATGAGCA -	STY3310	100	STY3366	60	STY3310	98.9	STY3366
GTGATAT(-	STY3222	100	STY4194	61.386	STY3222	99.1	STY3826
ATGGATC +	STY1217	100	STY1215	65.385	STY1217	98.7	STY1218
ATGAGTG +	STY3386	100	STY2803	64.356	STY3386	99	STY3121
GTGAGAC -	STY1735	100	STY2634	72	STY1735	98.8	STY2634
	STY4037	86	STY0429	53	STY4037	16.91	STY0429
ATGGATT +	STY3372	100	STY3372	64.151	STY3372	99.6	STY4498
ATGCAAA +	STY3256	100			STY3256	98.7	
ATGAGAA +	STY3207	100			STY3207	99	
ATGAAAA -	STY0800	99	STY2807	52	STY0800	98.4	STY2807
ATGGAAC +	STY3307	100	STY1553	79	STY3307	99.7	STY1553
ATGGCGC +	STY3230	100	STY3795	64.078	STY3230	98.6	STY2394
ATGCTCG +	STY1139	100	STY2960	64.078	STY1139	99.4	STY3432
ATGGCTT -	STY0810	100	HCM2.010	68.932	STY0810	99	STY1911
ATGAAAA -	STY0853	100	STY4199	68.317	STY0853	99	STY2878
ATGACGC +	STY0896	100	STY0688	80	STY0896	98.7	STY0688
ATGCTGG -	STY0510	100	STY2807	65.421	STY0510	99.5	STY2807
ATGCTAC +	STY0424	100			STY0424	98.6	
ATGATTT(-	STY3296	100			STY3296	70.13	
	STY0609a	96	STY0433	62	STY0609a	51.49	STY0433
	STY0610	85	STY3350	59.259	STY0610	47.22	STY3350

ATGTCGA -	STY2787	100	STY1754	71	STY2787	99.4	STY0226
ATGATGA -	STY2191	100	STY4473	91	STY2191	100	STY4473
	STY1077	72	STY1883	65	STY1883	46.04	STY1077
ATGATCA +	STY2415	100			STY2415	99.2	
ATGGCAT -	STY0862	100	STY3131	62.136	STY0862	98.9	STY3131
ATGACTT +	STY4789	100			STY4789	100	
ATGGCCG -	STY4880	100	STY2940	59.615	STY4880	97.9	STY2940
ATGATTT +	STY3048	100	STY0063	62.264	STY3048	99.2	STY3130
ATGGAAT -	STY1754	100	STY2787	70	STY1754	99.2	STY2787
ATGAAAC -	STY1158	100	STY2478	66.981	STY1158	98	STY2478
ATGAATC +	STY1745	100	STY1746	93	STY1745	100	STY1746
ATGCTAT +	STY4150	100			STY4150	99	
ATGCAAG +	STY4092	100			STY4092	99.8	
ATGTATT +	STY0045	100	STY1924	64.423	STY0045	77.61	STY1958
ATGGATA -	STY0081	100	STY0632	60.194	STY0081	97.3	STY4473
ATGAATA +	STY0046	100	STY0039	81	STY0046	98.6	STY0039
ATGATCA +	STY0102	100	STY0111	63.551	STY0102	99.4	STY3061
ATGAGCA -	STY0106	100	STY0185	64	STY0106	99.4	STY0185
ATGCAAA +	STY0091	100	STY3123	71	STY0091	100	STY3123
	STY0111	63	STY2071	58.824	STY2071	51.57	STY2279
ATGTATC +	STY1439	99	HCM1.158	51.485	STY1439	96.5	HCM1.158
ATGAGCC +	STY1372	100			STY1372	99.1	
ATGCAAA +	STY1391	100	STY1480	70	STY1391	92.2	STY1480
	STY3168	66.337			STY3168	45.49	
ATGGCGT +	STY3375	100	STY0504	64.078	STY3375	99.2	STY2973
	STY2316	63.208			STY2316	15.46	
	STY2297	61.386	STY4082	56.863	STY2297	9.67	STY4082
	STY1907	44	STY2695	44	STY2695	10.12	STY1907
	STY1654	62.617	HCM1.263	61	HCM1.263	6.06	STY1654
	STY3306	52.475			STY3306	12.4	
	HCM1.252	72.277	STY2206	65	HCM1.252	49.79	STY4598
	STY3732	63.462	HCM2.012	62.376	HCM2.012	8.72	STY3732
	STY3433	39			STY3433	7.65	
	HCM1.86	62.5	STY0360	59.048	STY0360	24.04	HCM1.86
	STY4846	100	STY4260	62.745	STY4846	93.47	STY0820
	STY1011	74	STY4776	60.194	STY1011	61.52	STY4776
	STY2167	96	STY0583	45	STY2167	62.93	STY0583
	STY1750	61.261	STY0294	61	STY1750	26.68	STY0294
	STY2762	52.427	STY2372	51.485	STY2762	40.61	STY2372
	STY0308	53.465			STY0308	39.14	
ATGAATC +	STY3268	100	STY2657	73	STY3268	99.2	STY2657
ATGGGTA +	STY0311	100	STY0313	77	STY0311	100	STY0313
ATGGTTA +	STY0350	100	STY2275	59.804	STY0350	100	STY2275
ATGAACG -	STY1018	100	STY2131	63.208	STY1018	100	STY2131
GTGGTAT +	STY1045	100	STY3208	60.377	STY1045	100	STY3208
ATGAACG +	STY1061	100	STY2026	95	STY1061	100	STY2026
ATGACTG -	STY2036	100	STY1051	96	STY2036	100	STY1051
GTGAAAA +	STY0476	100	STY0477	88	STY0476	100	STY0477
ATGAACT -	STY1020	100	STY2066	61.165	STY1020	100	STY2066
ATGACTT +	STY1047	100	STY2040	98	STY1047	100	STY2040

ATGACAA +	STY1063	100	STY2024	68	STY1063	100	STY2024
ATGGCAC -	STY1048	100	STY1049	100	STY2039	100	STY1048
ATGTTAA(+	STY2055	100	STY2805	51.923	STY2055	100	STY2055
ATGGCAG +	STY1625	100	STY4607	67	STY1625	100	STY4607
ATGAAGA -	STY1672	100	STY2672	60.396	STY1672	100	STY2672
ATGGCCC -	STY1070	100	STY2016	100	STY2016	100	STY1070
ATGAGTT -	STY2032	100	STY1055	90	STY2032	100	STY1055
GTGCACA +	STY2057	100			STY2057	100	
ATGAGCA +	STY2073	100	STY2562	66.346	STY2073	100	STY2562
ATGAAAA(+	STY1760	100	STY4383	75.728	STY1760	100	STY4383
ATGTCGG +	STY1067	100	STY2020	74	STY1067	100	STY2020
ATGAAGC -	STY2043	100	STY4636	91	STY2043	100	STY4636
TTGACTA -	STY2059	100			STY2059	100	
ATGAATT -	STY3660	100	STY4644	69	STY3660	100	STY4644
ATGACAG +	STY3676	100	STY4626	94	STY3676	100	STY4626
ATGAATA -	STY4654	100	STY4460	62.5	STY4654	100	STY4460
ATGAATT(-	STY4671	100	STY4787	58.416	STY4671	100	STY4787
ATGTTTA(-	STY4824	100	STY4106	64.423	STY4824	100	STY4106
GTGACGC +	STY4849	100	STY2510	87	STY4849	100	STY0729
	STY4144	100	STY1288	69	STY4144	100	STY1288
GTGGTAC +	STY4525	100	STY0979	67.961	STY4525	100	STY0979

ATGGATA +	STY1267	100	STY0257	70.093	STY1267	98.5	STY0257
ATGGCTG +	STY0146	100	STY4796	73	STY0146	98.7	STY4796
	STY2359	64.356	STY2241	60	STY2501	12.7	STY2241
ATGAGCA -	STY0200	100	STY0077	75.248	STY0200	93.15	STY0077
ATGGGAT +	STY0257	100			STY0257	99.3	
ATGGCAC -	STY1548	100	STY1323	84	STY1548	98.9	STY1323
GTGAGCA +	STY0221	100	STY4480	69.903	STY0221	97.8	STY0635
ATGTTTT(-	STY0705	100			STY0705	28.59	
ATGAAAT -	STY0734	100	STY2660	70	STY0734	99.5	STY2660
	STY4097	73	STY3100	65	STY4097	45.97	STY3100

ATGGCTC +	STY3899	100	STY1948	62.136	STY3899	98.5	STY0547
	STY2540	61.468	STY1131	41	STY2540	38.19	STY3939
ATGGCAA -	STY3923	100	STY0127	76	STY3923	98.64	STY0127
ATGGGAT +	STY0014	100	STY3584	64.078	STY0014	98.4	STY0036
ATGTTAA(+	STY2637	100	STY3995	66.667	STY2637	98.82	STY3994
ATGACCC -	STY0808	100	STY4790	67.647	STY0808	99.1	STY4790
ATGAAAA +	STY0157	100	STY1813	75.248	STY0157	98.7	STY1813
	STY2895	56			STY2895	16.83	
ATGGATC -	STY1112	100	STY0145	57.407	STY1112	99.4	STY0145
GTGAATA +	STY4395	100	STY4405	81	STY4395	98.8	STY1919
ATGTCTC +	STY4340	100	STY1289	65.686	STY4340	99.6	STY0100
ATGCTAC -	STY4300	100			STY4300	99.6	
ATGAAAT -	STY1869	100			STY1869	98.9	
ATGAAAC +	STY4348	99	STY3945	49.038	STY4348	97.5	STY3945

ATGGCAG +	STY4309	100	STY0240	60.377	STY4309	100	STY0240
GTGATTG -	STY1273	100	STY0064	61	STY1273	99.4	STY0064
ATGAAAT -	STY1843	100	STY1252	61.765	STY1843	99.6	STY1252
ATGACAA -	STY2316	100	STY3472	58	STY2316	97.7	STY3472
GTGGAAT +	STY2346	100	STY0962	63.303	STY2346	96.76	STY0962
ATGACGC +	STY4273	100	STY1505	76	STY4273	97.44	STY1505
ATGAGTA +	STY4237	100	STY2161	60	STY4237	98.7	STY2161
ATGGAAC +	STY2348	100			STY2348	98.7	
	STY4838	60.784			STY4838	5.86	
ATGGCTC -	STY0328	100	STY0323	84	STY0328	92	STY0323
	STY1579	65.049			STY1579	45.41	
ATGTTTA(-	STY2337	100	STY2383	59.633	STY2337	99.4	STY2383
	STY4618	99	STY3684	94	STY4618	91.6	STY3684
	STY1924	65.741			STY1924	22.75	
	STY0129	64.078	STY2189	42	STY0129	29.21	STY2189
ATGGAAC +	STY1085	100	STY2983	62.037	STY1085	98.9	STY2983
ATGAACC +	STY1647	100	STY4294	68.269	STY1647	99.3	STY4294
ATGGAGC +	STY0917	100	STY4739	64.423	STY0917	98.6	STY4739
	STY3760	60			STY3760	12	
ATGCATG -	STY2773	100	STY4508	61.386	STY2773	97.9	STY1568
ATGATAA(-	STY2809	100	STY0703	76	STY2809	99.4	STY2981
	HCM2.004	65.347	STY1813	63.208	HCM2.004	3.79	STY1813
ATGAGTA +	STY0968	100	STY4916	63.107	STY0968	95.76	STY0883
ATGTTGC +	STY0997	100	STY3644	68.932	STY0997	98.3	STY3644
ATGAATC -	STY3810	100	STY1930	64.151	STY3810	98.7	STY1930
ATGATGA +	STY4420	100	STY0619	61.386	STY4420	98	STY0619
TTGATAG -	STY3034	99	STY1297	61.111	STY3034	75.3	STY2198
ATGGCTG -	STY4702	100	STY0778	71.287	STY4702	99.3	STY0778
	STY4610	72	STY3692	61.386	STY1639	33.68	STY3692
GTGAAAG -	STY0974	100	STY2432	61	STY0974	99.7	STY4320
ATGAAAA(-	STY1011	100	STY4552	62	STY1011	99.8	STY4281
GTGAGCA +	STY4405	100	STY3564	64	STY4405	97.6	STY2884
	STY3223	78	STY4707	62.745	STY3223	61.32	STY0522
ATGGAAA -	STY4449	99	STY2137	62.376	STY4449	97.8	STY2137
ATGGAAA -	STY4805	100			STY4805	99	
ATGCCTG -	STY2564	100	HCM1.158	71.845	STY2564	99.3	HCM1.158
ATGGCAT +	STY2591	100	STY2809	68.627	STY2591	98.9	STY3711
GTGCGG1+	STY1248	100			STY1248	99	
	STY1578	65.385	STY2655	61.386	STY1578	28.54	STY3122
GTGAAGC -	STY1203	100			STY1203	99.1	
ATGAAAG +	STY3726	100	STY3764	70.37	STY3726	95.1	STY3764
ATGAATT +	STY1791	100	STY1755	72	STY1791	99.2	STY1755
ATGATGG +	STY4713	100	STY2478	64.151	STY4713	98.8	STY2478
	STY4292	60.577	STY1956	58.252	STY4292	17.88	STY1956
ATGGTTG -	STY2487	100			STY2487	97.6	
ATGGAGA -	STY2521	100	STY3945	66.337	STY2521	99.6	STY3945
	STY1292	64.151	STY3519	60.577	STY1292	4.7	STY3519
ATGGAAC -	STY2489	100	STY1752	62.376	STY2489	99	STY2159
ATGTTTT(-	STY2524	100	STY3331	63.462	STY2524	98.9	STY3331
ATGTCCC +	STY2561	100			STY2561	99.4	
ATGTCTG -	STY2600	100			STY2600	99.4	

ATGAGTA -	STY1800	100	STY2773	59.406	STY1800	99.3	STY2773
ATGCGTT -	STY1706	100	STY3019	75	STY1706	98.6	STY3019
ATGGAAA +	STY3902	100			STY3902	99.1	
ATGTGGA +	STY0337	100	STY1390	61.321	STY0337	99.6	STY1390
ATGATCG +	STY0253	100			STY0253	99.8	
ATGGAGT +	STY4430	100	STY4482	56.863	STY4430	99.4	STY4482
ATGACTA -	STY2620	100	STY3577	66.337	STY2620	99	STY3577
ATGTCGC +	STY0151	100	STY4012	66	STY0151	99.8	STY1738
ATGCGGC -	STY1810	100	STY1140	64.762	STY1810	98.2	STY1140
	STY0086	78	STY0240	63.366	STY0086	59.2	STY0240
ATGGCTG -	STY1749	99	STY3957	64.151	STY1749	98.3	STY3125
ATGTTTC +	STY1491	100	STY2941	65.347	STY1491	98.2	STY2458
ATGCGTA -	STY1703	100	STY2390	61.165	STY1703	99.2	STY2390
ATGGAAA +	STY0438	100	STY4754	77	STY0438	99.1	STY3625
ATGGAAA -	STY2481	100	STY3955	68	STY2481	98.5	STY3955
ATGAACT +	STY2818	100	STY3430	63.366	STY2818	99.1	STY3430
ATGAAAA -	STY2279	100	STY4925	60	STY2279	99.3	STY4925
ATGCAAG +	STY0122	100	STY2598	63.462	STY0122	99.2	STY2973
ATGGAAA -	STY0166	100	STY3138	61.386	STY0166	99.3	STY3881
ATGAGCC -	STY2499	100	STY3351	80	STY2499	98.1	STY3351
ATGGCCC -	STY2681	100	STY3808	74	STY2681	98.1	STY3808
ATGCAGT -	STY0867	100	STY0215	62.617	STY0867	99.2	STY2160
ATGCGTC -	STY2218	100	STY0878	79	STY2218	98.8	STY0878
ATGTCAT -	STY0636	100	STY0802	67	STY0636	98.5	STY0635
	STY2711	36			STY2711	6.22	
	STY3005	62.5	STY1317	50	STY3005	19.21	STY1317
ATGAAAA +	STY4044	100	STY0171	63.551	STY4044	98.4	STY3215
ATGAGTA +	STY4168	100	STY3983	64.356	STY4168	98.7	STY1369
ATGATAT +	STY4254	100	STY3352	62.617	STY4254	99.5	STY4804
ATGATAA +	STY0950	100	STY4306	62.857	STY0950	98.6	STY4196
ATGGTAC -	STY2764	100	STY1015	61.321	STY2764	98.4	STY1015
ATGGCAC +	STY0521	100	STY2692	63.636	STY0521	100	STY2692
ATGTTTG +	STY0562	100	HCM2.003	62.857	STY0562	99.5	STY1693
ATGGCTT -	STY4757	100			STY4757	98.5	
ATGAACA -	STY4863	100	STY2727	61.538	STY4863	98.7	STY1494
GTGGCTC -	STY4928	100	STY0879	69	STY4928	98.9	STY1083
ATGGACC +	STY4139	100	STY3735	60.577	STY4139	98	STY3735
ATGGCTA -	STY3415	100	STY2278	70	STY3415	99.2	STY2278
ATGAAAC +	STY4313	100	STY1447	66.019	STY4313	98.8	STY1447
ATGTCGA +	STY3943	100	STY3359	79	STY3943	98.9	STY3359
ATGCTGG +	STY2286	100	STY0492	64.078	STY2286	98.6	STY1405
ATGAAAA -	STY0451	100	STY3549	54.808	STY0451	99.4	STY3549
ATGACGT +	STY1344	100	STY2406	60.952	STY1344	98.9	STY2406
ATGAAAA -	STY4389	100	STY1981	63.725	STY4389	98.7	STY1981
ATGGAGA +	STY4310	100	STY1097	63	STY4310	99.1	STY1097
ATGGCTT +	STY2168	100	STY0527	69	STY2168	98.6	STY0527
ATGAACC -	STY2827	100	STY3481	61.165	STY2827	99.1	STY3481
ATGAATC -	STY2700	100	STY2256	76	STY2700	97.9	STY2256
ATGATAC +	STY3887	100	STY3642	64.762	STY3887	94.94	STY3642
ATGCATT -	STY3016	100	STY3017	41	STY3016	98.6	STY3017
ATGTTTCG +	STY1883	100	STY1077	74	STY1883	100	STY1077
ATGGTAA -	STY3008	100	STY0793	59	STY3008	99.4	STY0793

GTGAATA -	STY0903	100		STY0903	98.9		
ATGAATA,+	STY0886	100	STY1770	66.346	STY0886	99.3	STY1770
ATGACTA,-	STY4323	100	STY0145	70.874	STY4323	97.9	STY0145
ATGGATA +	STY2252	100	STY4242	73	STY2252	95.3	STY1458
ATGCCGT -	STY4487	100	STY1101	62.376	STY4487	98.6	STY1101
ATGGCAC -	STY2107	100	STY1573	59.434	STY2107	98.9	STY4855
GTGAAAA -	STY3546	100	STY4707	65.714	STY3546	98.7	STY1680
TTGGCTA -	STY0052	100	STY1746	59.804	STY0052	100	STY2812
ATGAGCA -	STY0290	100	STY2475	58.824	STY0290	99	STY2475
ATGACGT +	STY1426	100	STY3499	69.307	STY1426	98.4	STY3499
ATGAGGA +	STY3858	100	STY0536	60	STY3858	85.91	STY0536
ATGTTTA,+	STY0833	100	STY2467	69	STY0833	91.02	STY2467
ATGGCGA +	STY2255	100	STY2281	63	STY2255	98	STY0538
ATGACGC +	STY4497	100		STY4497	98.48		
ATGATCG +	STY2114	100	STY3198	70	STY2114	98.8	STY3198
ATGCTGT -	STY2268	100	STY0896	63	STY2268	99.7	STY0896
ATGAAGA +	STY4456	100	STY3297	86	STY4456	96.59	HCM1.122
GTGGTTC -	STY2872	100	STY3128	63.107	STY2872	94.18	STY0738
ATGAAGC +	STY0054	100	STY4290	66.355	STY0054	99.4	STY4290
ATGCGCT -	STY4790	100	STY0848	62.963	STY4790	97.8	STY4803
ATGGGTA +	STY1533	100	HCM1.253	62.376	STY1533	98.3	HCM1.253
GTGAAGT -	STY3637	100	STY4906	76	STY3637	99.4	STY4906
ATGTTTC,-	STY3598	100	STY3502	63.366	STY3598	99.4	STY0803
ATGAATA,-	STY3120	100	STY2744	61	STY3120	99.03	STY4144
ATGGCTA -	STY3736	100		STY3736	99.8		
ATGCAAA +	STY1219	100	STY4311	64.151	STY1219	99.3	STY4311
ATGTTTA(-	STY4320	100	STY4624	64.486	STY4320	95.2	STY0974
ATGCGAA +	STY3540	100	STY4801	66.337	STY3540	99.4	STY4801
ATGACAA -	STY3083	100	STY1862	60	STY3083	99.1	STY2678
GTGACAA +	STY3778	100	STY1288	71.287	STY3778	99.6	STY1288
ATGCTTT,+	STY3577	100	STY0080	66.667	STY3577	99.1	STY2620
TTGTCTC,-	STY3593	100	STY0043	72	STY3593	98.1	STY0043
ATGCGTT -	STY3609	100	STY2875	73.267	STY3609	99.2	STY2875
TTGTACC -	STY3620	100	STY0690	61	STY3620	98.9	STY1651
ATGGCTA -	STY1855	100	STY1730	58.252	STY1855	98.85	STY1730
GTGAAAG -	STY3731	100	STY2954	63.366	STY3731	98.4	STY2954
ATGGGTT -	STY1352	100	STY0004	62.857	STY1352	99.2	STY3877
ATGACAT,-	STY2127	100	STY2875	62	STY2127	99.7	STY1353
ATGCTGG -	STY3103	100	STY0744	63	STY3103	99.1	STY3813
ATGAAAG +	STY0919	100	STY1829	64.706	STY0919	99.3	STY1829
ATGGCAA +	STY0565	100	STY0135	65.347	STY0565	98.7	STY3986
ATGAACT,+	STY0999	100		STY0999	99.2		
ATGCAAA -	STY1486	100	STY1290	77	STY1486	98.3	STY1290
ATGCGCA -	STY0369	100	STY4943	61.321	STY0369	98.4	STY0372
ATGTCTA -	STY1317	100	STY0781	65.049	STY1317	99.7	STY0781
ATGGATC +	STY1909	100	STY2711	60.784	STY1909	99.1	STY1211
TTGAAGA -	STY1948	100	STY2282	64.423	STY1948	99.6	STY0081
ATGGCTC +	STY1979	100	STY1084	63.462	STY1979	99.4	STY1084
ATGTCCT,+	STY2083	100	STY0903	50.943	STY2083	97.9	STY0903
ATGACTA +	STY0522	100	STY4707	72	STY0522	98.8	STY4707
ATGAGAC +	STY0660	100	STY1736	76	STY0660	99.3	STY2774
ATGTCCT,+	STY0674	100	STY0062	68	STY0674	99.4	STY0062

ATGCATA +	STY0985	100	STY0924	72	STY0985	99	STY0503
ATGCAAC -	STY0648	97	STY4584	68	STY0648	95.1	STY4584
ATGACCG +	STY1456	100	STY3005	65	STY1456	99.3	STY3005
	STY2493	83	STY1649	80	STY1002	62.2	STY0365
ATGGATA +	STY1459	100	STY1400	58	STY1459	98.5	STY1400
ATGGCAA +	STY4188	100	STY4406	66.055	STY4188	99.2	STY1349
	STY1730	58.252	STY1193	52.475	STY1730	31.2	STY1193
ATGAACA -	STY4097	100	STY3100	74	STY4097	99.1	STY3100
ATGTTTG -	STY2971	100			STY2971	97.7	
ATGGGAA +	STY3115	100	STY3990	67	STY3115	98.7	STY3990
ATGACCC +	STY2877	100	STY0954	76	STY2877	97.91	STY2891
ATGACAA -	STY0452	100	STY1578	59.048	STY0452	97.8	STY1578
ATGAATC +	STY0492	100	STY1910	65.714	STY0492	99	STY1910
ATGCAAC -	STY4227	100			STY4227	91.14	
	STY4162	100	STY4786	68	STY4162	46.72	STY4786
ATGCTCG +	STY4118	100	STY3756	62	STY4118	99.1	STY3756
ATGAGGC -	STY4090	100	STY3623	65.385	STY4090	98.4	STY3623
ATGCGCT +	STY0279	100			STY0279	98.7	
ATGAAAT +	STY0443	100	STY0345	59.804	STY0443	99.2	STY4110
ATGCATG -	STY3315	100	STY2976	67	STY3315	99.4	STY2976
ATGCAAC +	STY2941	100	STY1491	65.714	STY2941	98.6	STY2342
ATGCAGC -	STY4173	100	STY3421	72.816	STY4173	98.9	STY3421
ATGCAGC -	STY4115	100	STY3516	65	STY4115	97.7	STY3516
ATGCAAG -	STY3477	100	STY4293	62.5	STY3477	98.7	STY4293
ATGACGA -	STY3392	100			STY3392	98	
ATGAAGA -	STY3305	100	STY3946	79	STY3305	99.6	STY0628
ATGAGCA +	STY2948	100			STY2948	99.1	
ATGAATA -	STY2424	100	STY2425	75	STY2424	99.2	STY2425
GTGAGTA -	STY2462	100	HCM1.63c	51.485	STY2462	99.8	HCM1.63c
ATGAGTT -	STY2961	100	STY1370	74.257	STY2961	98.6	STY3876
ATGGGTC +	STY2453	100	STY1305	62.745	STY2453	99.4	STY1305
	STY0327	61.386			STY0327	5.1	
GTGAAAC -	STY2392	100	STY0501	63.889	STY2392	99.46	STY2394
ATGATTG -	STY0930	100	STY3833	53.465	STY0930	98.2	STY3833
ATGATCC +	STY4368	100	STY0026	61.111	STY4368	100	STY0026
ATGAAAC -	STY2378	100			STY2378	99.8	
ATGTCTG -	STY2408	100			STY2408	99.7	
ATGGCTA +	STY4378	100	STY2168	64.356	STY4378	99.6	STY2168
ATGCTAC -	STY4214	100	STY2563	64.078	STY4214	99.6	STY1269
ATGGACC -	STY3521	100	STY0174	76.471	STY3521	99.1	STY1521
ATGGCTG +	STY4885	100	STY2098	86	STY4885	99.2	STY3570
ATGAGTT +	STY4769	100	STY0782	63	STY4769	98.5	STY0782
ATGACAT +	STY4907	100	STY2093	57.282	STY4907	99.3	STY2093
ATGCGCT -	STY4699	100	STY2282	58.879	STY4699	99.6	STY2282
ATGAGCA -	STY4798	100	STY4220	78.218	STY4798	98.2	STY4220
ATGTTCA +	STY3435	100	STY1744	64.423	STY3435	99.6	STY4003
ATGAGCC -	STY0712	100	STY1494	59.223	STY0712	99.4	STY2332
ATGATAA +	STY3501	100	STY4741	65	STY3501	99.8	STY4741
ATGGATT +	STY3414	100			STY3414	99.7	
ATGCAAG -	STY0211	100			STY0211	99.6	
ATGATGA -	STY1717	100	STY1209	58	STY1717	99.3	STY1209
ATGGAAC -	STY3200	100	STY3610	63	STY3200	99	STY3610

	STY1370	65.714	STY1491	63.551	STY3777	20.96	STY1370
ATGTCTT(-	STY1722	100	STY1434	60	STY1722	99.5	STY1434
ATGGAAA -	STY1120	100			STY1120	98.2	
ATGGATA +	STY0768	100	STY3293	66.667	STY0768	38.3	STY3293
ATGACGC +	STY0821	100	STY1256	74	STY0821	98.8	STY1256
ATGCCGC -	STY0871	100	STY4301	61	STY0871	98.4	STY4301
ATGGTGC -	STY3205	100	STY2112	62.136	STY3205	99.5	STY0171
ATGTTTT(-	STY3093	100	STY4807	66	STY3093	99	STY4807
ATGAGCT +	STY0444	100	STY3692	59.804	STY0444	99.4	STY3692
ATGTCTG -	STY0516	100	STY2510	62.617	STY0516	100	HCM1.135
GTGGGT(-	STY3332	100	STY0791	71	STY3332	99.9	STY0791
ATGAAAA -	STY3123	100	STY0091	70.874	STY3123	100	STY3150
ATGACGA -	STY2204	100	STY4153	75	STY2204	99.1	STY0678
ATGAAAA -	STY4484	100	STY4503	87	STY4484	98.3	STY0659
ATGACCA +	STY4447	100	HCM2.011	57.426	STY4447	98	HCM2.011
TTGATTA +	STY4691	100	STY0997	60.377	STY4691	99.2	STY0997
ATGGCAA +	STY1156	99	STY1548	83	STY1156	98.8	STY1548
	STY2470	61.165	STY1168	53.465	STY2470	48.56	STY1168
ATGAAAG +	STY2529	100	STY1223	63	STY2529	98.6	STY1223
ATGTGGA -	STY2478	100	STY3961	100	STY2478	98.5	STY3961
ATGCGAA -	STY4639	98	STY3665	75	STY4639	96.2	STY3665
ATGATTA(-	STY1448	100	STY4741	56	STY1448	99.8	STY4741
ATGAATG -	STY1535	100	STY0412	67.327	STY1535	98.3	STY0412
ATGAACA -	STY1416	99	STY0662	69.608	STY1416	98.6	STY0662
ATGAAAA +	STY2082	100	STY0480	54	STY2082	98.7	STY0480
ATGAAAG -	STY0165	100	STY3252	67	STY0165	98.8	STY4545
ATGAACG +	STY3990	100	STY3115	77	STY3990	98.8	STY3115
ATGCTGA +	STY3900	100			STY3900	99.3	
ATGAACA +	STY0456	100	STY4417	65.385	STY0456	95.54	STY1247
ATGAAAA -	STY3241	100			STY3241	100	
	STY3316	60.396	STY0546	50	STY3316	51.69	STY0546
ATGAAAA +	STY1424	100	STY1192	61.111	STY1424	100	STY1192
ATGAATA +	STY1374	100	STY2039	60.185	STY1374	100	STY2039
	STY1884	48			STY1884	42.12	
GTGAAAA -	STY1970	100	STY3951	58	STY1970	100	STY3951
	STY1513	41.176			STY1513	29.39	
ATGTGGT +	STY0788	100			STY0788	100	
	STY0445	62.264			STY0445	21.33	
	STY4165	49.505			STY4165	9.09	
	STY2610	62.857	STY4172	61.165	STY2610	15.32	STY4172
	STY4114	64	STY2547	62.745	STY1292	8.75	STY2547
	STY1415	64	STY2701	60.396	STY1415	48.28	STY3686
	HCM1.222	70	STY4290	59.091	HCM1.222	53.53	STY4290
	STY0929	63.208	STY4114	58.824	STY0929	41.94	STY4114
	STY3764	61.538	HCM2.005	60	STY3764	12.1	STY4144
	STY1956	100	STY3110	76.238	STY1956	99.4	STY3110
ATGAATC +	STY1042	100	STY0321	61.165	STY1042	96.3	STY0796
	STY0958	62	STY2479	59.223	STY2479	10.26	STY3960
	STY1851	36	STY2481	29	STY1851	17.47	STY2481

	STY3099	100	STY3098	78	STY3099	98.2	STY3098
	STY3236	100	STY2711	85	STY3236	98.5	STY2711
	STY0962	100	STY1565	81	STY0962	98.6	STY1565
GTGACTG-	STY1596	100	STY0396	61.682	STY1596	100	STY0396
ATGGTCG+	STY1613	100	STY4719	49.505	STY1613	100	STY4719
GTGGCC^+	STY1629	100	STY4890	64.706	STY1629	100	STY4890
ATGCTGA-	STY1879	100	STY1198	53	STY1879	100	STY3196
ATGCCTG-	STY2020	100	STY1067	74	STY2020	100	STY1067
TTGATGA+	STY3086	100	HCM2.004	66.346	STY3086	100	STY3176
ATGACAA+	STY1615	100			STY1615	100	
GTGATGT+	STY1631	100	STY4755	90	STY1631	100	STY4755
ATGAGTT^+	STY1887	100	STY3134	61.386	STY1887	100	STY0358
ATGAAAA^-	STY2022	100	STY0417	60	STY2022	100	STY0417
ATGACGA+	STY3088	100	STY3089	63	STY3088	100	STY3089
ATGCAGC+	STY3287	100	STY4871	64.706	STY3287	100	STY4871
ATGACCA+	STY1027	100			STY1027	100	
ATGACGA+	STY1048	100	STY1049	100	STY1049	100	STY2038
GTGAAAA+	STY1065	100			STY1065	100	
ATGGCAA-	STY2041	100	STY1046	85	STY2041	100	STY1046
TTGTTTC^+	STY3289	100	STY4841	57.692	STY3289	100	STY4841
ATGGCAC-	STY3658	100	STY4645	72	STY3658	100	STY4645
ATGAATA^+	STY1051	100	STY2036	96	STY1051	100	STY2036
ATGAACG-	STY2026	100	STY1061	95	STY2026	100	STY1061
TTGCCTG+	STY3092	100	STY3021	64.762	STY3092	100	STY3021
ATGGATA+	STY2067	100	STY0418	59.615	STY2067	100	STY3855
GTGAGG^-	STY2297	100			STY2297	100	
ATGATGA-	STY2364	100	STY3164	61.905	STY2364	100	STY1450
ATGGCTT^+	STY4536	100	STY4451	80	STY4536	100	STY4451
GTGGCAA^+	STY4559	100	STY0060	94.059	STY4559	100	STY0060
ATGAAAT^+	STY4576	100			STY4576	100	
ATGCTGG+	STY4593	100	STY4594	60.577	STY4593	100	STY4594
ATGAAAT^-	STY4221	100	STY1507	76.699	STY4221	100	STY1507
ATGAACA^+	STY4539	100			STY4539	100	

ATGAATC-	STY0082	100			STY0082	98.46	
ATGTCGC+	STY3494	100	STY2960	75.49	STY3494	99	STY2960
ATGACTA-	STY3534	100	STY0955	55.769	STY3534	99.8	STY0955
ATGCCGC+	STY3568	100	STY1349	75	STY3568	74.17	STY1349

ATGGAGC-	STY0730	100	STY0277	59.406	STY0730	99.5	STY0277
ATGAAGC+	STY0243	100	STY2758	79.208	STY0243	99.3	STY2758
ATGAAGA-	STY1556	100	STY2521	64.078	STY1556	97.7	STY3945
ATGGCAG+	STY1527	100	STY1916	65.686	STY1527	99.2	STY1916
ATGCAAA-	STY4795	100	STY3891	62	STY4795	98.3	STY3891
ATGCATT^-	STY2238	100	STY1389	49.02	STY2238	51.82	STY1389
ATGACGC+	STY0007	100	STY2710	87	STY0007	99.2	STY2710
ATGGCTG-	STY1327	100	STY0887	76	STY1327	99	STY0887

ATGAAAC -	STY2226	100	STY1508	59.434	STY2226	98.5	STY1508
ATGACAA -	STY1325	100			STY1325	99.2	
	STY0164	52.941	STY4235	47.573	STY0164	15.42	STY4235
ATGCCTT -	STY0111	100	STY2183	70	STY0111	98.9	STY1410
GTGTCGC +	STY3513	100	STY0310	59.615	STY3513	98.1	STY0310
	STY4610	76			STY4610	23.28	
ATGACAA -	STY1128	100	STY2904	66	STY1128	98.3	STY4491
ATGTCAC -	STY1166	100	STY3518	79	STY1166	99.6	STY3518
ATGTTTG +	STY1205	100	STY3615	67	STY1205	99.5	STY3615
ATGATTA +	STY1250	100	STY0261	62.857	STY1250	99.1	STY0261
ATGATCA -	STY1848	100	HCM1.103	67.961	STY1848	98.1	HCM1.103
ATGACGA -	STY1192	100	STY2639	70	STY1192	98.5	STY2639
ATGTTTT +	STY1241	100	STY4915	63.462	STY1241	99.2	STY3583
ATGGAAA -	STY4277	100	STY3781	66.346	STY4277	98.1	STY2513
ATGAAAC +	STY4260	100	STY2475	61.165	STY4260	97.1	STY2475
ATGAATA -	STY4895	100	STY0593	53.398	STY4895	99.4	STY0593
ATGCACC -	STY4931	99			STY4931	44.15	
ATGCGAA +	STY1841	100	STY1000	63	STY1841	99.4	STY1000
TTGCGTC -	STY4899	100			STY4899	95.74	
ATGGATC -	STY4933	100	STY1541	70	STY4933	98.7	STY1541
ATGGCAA +	STY0298	100	STY4500	48.039	STY0298	98.9	STY4500
	STY2057	63.462	STY1987	55.446	STY2057	6.13	STY1987
ATGAGAC +	STY2892	100	STY4103	60	STY2892	98.1	STY4103
	STY2324	59	STY3755	55	STY2324	8.33	STY3755
	STY0798	41.748			STY0798	8.8	
	STY0332	85	STY0333	78.218	STY0332	66.9	STY0333
ATGGGTA -	STY2894	100	STY0628	81	STY2894	98.3	STY0628
	STY3990	37.255	STY3871	32	STY3990	8.82	STY3871
ATGAAAA +	STY1140	100	STY2519	72.277	STY1140	98.9	STY2519
ATGCAAA -	STY2646	100	STY0996	63.107	STY2646	98.2	STY0996
ATGGAAA -	STY2686	100	STY0414	57	STY2686	78.62	STY4908
TTGTTGT +	STY2728	100	STY2884	87	STY2728	99.8	STY2795
ATGTCCA +	STY0966	100	STY3932	60.577	STY0966	99	STY2109
ATGCCGC +	STY0995	100	STY0286	61.386	STY0995	95.5	STY1744
ATGAATA +	STY3863	100			STY3863	86.05	
ATGCTGC -	STY2791	100	STY4949	64.356	STY2791	98.6	STY4949
ATGACTG -	STY3791	100	STY1957	60.784	STY3791	99.4	STY1957
ATGCAAT +	STY3755	100	STY2117	59	STY3755	99.1	STY2117
GTGGACC +	STY4509	100	STY1569	75	STY4509	97.3	STY1569
	STY3070	74.51			STY3070	21.54	
ATGAAGC -	STY2744	100	STY2651	71	STY2744	98.5	STY2651
ATGAGTT +	STY2805	100	STY4493	68.627	STY2805	99.3	STY4493
TTGCAGG -	STY3802	100	STY0975	55.446	STY3802	98	STY0975
	STY3925	70.476	STY2439	69	STY3925	53.07	STY2439
ATGCGTT +	STY2979	100	STY0954	63.393	STY2979	98.9	STY0954
	STY0580	62.745	STY3762	61.386	STY0580	8.04	STY3607
ATGGTTC -	STY4872	100	STY1902	58.416	STY4872	98.5	STY1902
ATGGAAA +	STY2260	95	STY2706	74	STY2260	92.9	STY2706
ATGCGGC -	STY1850	100	STY1937	62	STY1850	98.9	STY1937
GTGCAAC -	STY1584	100	STY1585	58	STY1584	99.4	STY1585

ATGTCAG -	STY1274	100	STY4845	63.107	STY1274	95.33	STY4845
ATGACAA -	STY1253	100	STY1339	55.769	STY1253	99.4	STY1339
ATGAACT+	STY4318	99	STY3709	63.462	STY4318	34.29	STY4270
ATGCAAA -	STY2149	100	STY1236	63.107	STY2149	98.29	STY1236
	STY0107	59.813			STY0107	17.57	
	STY2443	65.094	STY2563	59.434	STY2563	8.35	STY2443
	STY0711	65.138	STY2401	62.5	STY4087	10.42	STY0077
	STY0171	60.396	STY3244	59.633	STY3244	14.75	STY0171
ATGACGA -	STY4820	100	STY3196	62.617	STY4820	36.57	STY1493
ATGAACG -	STY2571	100	STY2383	65.049	STY2571	98.9	STY2383
ATGGGAA -	STY2134	100	STY2909	61.165	STY2134	99.7	STY2909
ATGCAAA -	STY1769	100	STY4428	50	STY1769	99.8	STY4428
ATGAAAA -	STY2289	100	STY3814	90	STY2289	97.4	STY3814
ATGTCGC +	STY3942	100	STY3095	66.667	STY3942	97.7	STY0508
ATGCCGC -	STY2814	100	STY0578	56.881	STY2814	99.8	STY0578
ATGAAAA -	STY0229	100	STY1733	92.308	STY0229	99.1	STY1733
ATGCGTT +	STY0147	100	STY0690	61.682	STY0147	99.4	STY0690
GTGTTAA -	STY0125	100	STY2834	64.706	STY0125	99.2	STY1221
GTGGATA -	STY2617	100	STY1900	63	STY2617	99.5	STY1900
ATGGGTT +	STY1790	99	STY0592	62.5	STY1790	98	STY0592
ATGATGA +	STY2186	100	STY4339	86.275	STY2186	99.5	STY4339
ATGCAGC -	STY2376	100	STY0582	66.038	STY2376	99.4	STY0582
ATGGTAA -	STY1653	100	STY4685	65	STY1653	98.6	STY4685
	STY2299	65.686	HCM1.203	61.321	STY2299	18.67	HCM1.203
GTGATGA -	STY2304	100	STY1276	55.446	STY2304	97.8	STY1276
ATGTCCC -	STY3931	100			STY3931	98.6	
ATGGCTA +	STY0241	100	STY3524	69	STY0241	99.4	STY3524
ATGAGTT -	STY0461	100			STY0461	99.2	
ATGCTAA +	STY0156	100	STY1901	63.551	STY0156	99	STY2146
ATGGAAT -	STY2550	100	STY0635	63	STY2550	99.3	STY3895
	HCM1.195	58.095	HCM2.008	52.475	HCM1.195	29.6	HCM2.008
ATGGCCC +	STY1024	100	STY4280	62.376	STY1024	99.7	STY4284
ATGACAA +	STY0548	100	STY1266	64.486	STY0548	99	STY1266
ATGGCCA -	STY0538	100	STY4022	64	STY0538	98.9	STY3649
ATGACGA -	STY4701	100	STY4260	58.879	STY4701	99.7	STY4260
ATGGCTA +	STY1035	100	STY3423	58.491	STY1035	99.2	STY0542
ATGCAAA +	STY3364	100	STY0903	61.905	STY3364	99.3	STY0903
ATGAAAG +	STY3396	100	STY0826	76	STY3396	99.1	STY4328
ATGAAAT+	STY3444	100	STY1520	64.762	STY3444	99.1	STY4087
GTGCTGC -	STY2526	100	STY3601	60	STY2526	98.2	STY3601
ATGGAAC -	STY2663	100	STY4391	66.667	STY2663	98.5	STY4391
ATGAAAC +	STY0567	100	STY3430	69.307	STY0567	98.6	STY3430
ATGTATT+	STY0033	100	STY0034	100	STY0033	71.39	STY0034
	STY1578	64.356	STY0819	58.491	STY0819	15.5	STY1578
	STY2045	58.824	STY0221	52.885	STY2045	29.2	STY0221
ATGTTGT+	STY2845	100			STY2845	99.4	
ATGAGCC -	STY3384	100	STY3218	64.706	STY3384	99.14	STY4182
ATGACGT +	STY4224	100	STY0852	76	STY4224	98.6	STY0852
ATGATGA -	STY3461	100	STY1410	69	STY3461	99.3	STY1410
ATGGCAT +	STY0458	100	STY0836	63.551	STY0458	99.6	STY1357

GTGAATA -	STY2677	100	STY2666	74	STY2677	97.5	STY2666
ATGGCGC -	STY0884	100	STY3723	66	STY0884	98.8	STY3723
ATGAGCA +	STY0285	100	STY0534	66.038	STY0285	98	STY1576
ATGAGCC -	STY1698	100	STY1988	61	STY1698	99.4	STY3010
GTGATTG -	STY2582	100	STY2160	63.107	STY2582	97.9	STY0921
ATGGCGA +	STY0013	100	STY1148	68.317	STY0013	99.7	STY1148
ATGACCC +	STY1314	100	STY4235	60.909	STY1314	97.3	STY4235
ATGATCA -	STY2692	100	STY2250	71	STY2692	98.2	STY2701
ATGGCTG -	STY3792	100	STY0667	65.766	STY3792	99.3	STY0667
TTGATTA +	STY0076	100	STY0882	62.376	STY0076	95.6	STY2554
ATGGGAA -	STY2697	100	STY0183	86	STY2697	98.2	STY0183
ATGGCAC -	STY3750	100	STY4929	89	STY3750	98.73	STY4929
ATGGCGC -	STY0799	100	STY3308	64.151	STY0799	98.3	STY1637
ATGGCCA +	STY0792	100	STY3331	66	STY0792	98.8	STY3331
TTGGCAA +	STY2932	100	STY1683	64.762	STY2932	98.4	STY1683
TTGAGTA +	STY1541	100	STY4933	69	STY1541	99.5	STY0624
TTGGGTT -	STY3002	100	STY1766	56.436	STY3002	97.2	STY1766
ATGACTG -	STY1383	100	STY3901	65.049	STY1383	99.7	STY1292
GTGCGTC +	STY3558	100	STY3467	63.107	STY3558	99.2	STY3467
ATGGCGC +	STY0264	100	STY1910	91	STY0264	99.6	STY0413
ATGATGC -	STY1271	100	STY2904	72.549	STY1271	99.6	STY2904
ATGGATC -	STY3717	100			STY3717	99.1	
ATGAGTT +	STY2606	100	STY0147	50	STY2606	99.5	STY0147
ATGTCCT +	STY4733	100			STY4733	98.52	
ATGCTGG -	STY1727	100	HCM1.90c	62	STY1727	95.24	HCM1.90c
ATGTATA +	STY1232	100	STY3421	51.429	STY1232	99.1	STY3421
ATGAACT -	STY1347	100	STY3044	61	STY1347	98.8	STY0186
ATGGTAA +	STY2112	100	STY3205	62.136	STY2112	99.7	STY0815
	STY4458	100	STY2875	58.416	STY4458	92.55	STY4459
	STY2074	79	STY4755	61.386	STY2074	18.01	STY4755
ATGTTTA -	STY1179	100	STY4197	63	STY1179	95.39	STY1729
GTGCAGC +	STY0757	100	STY4158	55	STY0757	99.1	STY4158
GTGAACA -	STY3714	100	STY2477	63.462	STY3714	98.6	STY2477
ATGGACC -	STY3581	100			STY3581	99.4	
ATGGACA +	STY3606	100	STY0036	61.165	STY3606	99.5	STY0036
ATGAGCC -	STY3639	100	STY2842	62.745	STY3639	99.7	STY2842
ATGAGTA +	STY1288	100	STY1488	92	STY1288	98.5	STY1488
ATGTCTA +	STY1952	100	STY1652	88	STY1952	99.4	STY1652
GTGCTGT -	STY1313	100	STY3549	59.406	STY1313	99	STY3549
ATGCTGT -	STY3153	100	STY4473	62	STY3153	99.1	STY1948
ATGATTC +	STY3020	100			STY3020	99.5	
ATGAGCC -	STY4605	99	STY2886	90	STY4605	94.4	STY2886
ATGGCGA +	STY2251	100	STY2250	58.824	STY2251	98.5	STY2250
ATGACAC -	STY1489	100	STY1287	82	STY1489	98.7	STY1287
ATGGATG -	STY3618	100	STY2275	63	STY3618	98.2	STY2208
ATGACTG -	STY3628	100	STY1589	82.178	STY3628	98.1	STY1589
ATGACAG -	STY3656A	100	STY2196	50.505	STY3656A	100	STY2196
	HCM2.005	68.627	STY2490	66.667	HCM2.005	10.91	STY1981
ATGTTGC +	STY1936	100	STY4273	62.745	STY1936	98.5	STY3117
ATGCATA -	STY1335	100	STY0423	61.905	STY1335	100	STY0423
ATGAACA -	STY3059	100			STY3059	98.3	
ATGGCTA -	STY2086	100	STY2545	61.386	STY2086	98.8	STY2545

ATGAACA -	STY0666	100	STY3766	49.505	STY0666	98.8	STY3766
ATGAATA(+)	STY1517	100	STY3638	67	STY1517	98.6	STY3638
ATGGCCA +	STY0642	100	STY4620	61.765	STY0642	97.8	STY2401
ATGACCT -	STY1452	100	STY3940	62.857	STY1452	98.8	STY0503
	STY2425	65.686	STY3155	65.049	STY3155	54.99	STY3156
ATGAAAA -	STY1478	100	STY0033	64.356	STY1478	96.85	STY4292
ATGAGTT -	STY1449	100	STY0767	59.434	STY1449	98.1	STY0767
ATGTCAT(-)	STY1437	100	STY0341	63.717	STY1437	98.9	STY0341
ATGACAA +	STY2100	100	STY0816	75.728	STY2100	92.18	STY4339
ATGCGCT -	STY0925	100			STY0925	99	
ATGGAAC +	STY0569	100	STY1782	70	STY0569	98.4	STY3378
ATGTCTT +	STY0571	100	STY4784	64	STY0571	99.8	STY4784
ATGATGA +	STY0959	100	STY4172	66.337	STY0959	99.3	STY4172
ATGAATA(+)	STY1429	100	STY1819	63.81	STY1429	98.4	STY1819
	STY1479	61.538	STY1304	49	STY1479	30.02	STY1304
ATGTGGC +	STY1919	100	STY0786	87	STY1919	99.2	STY0786
ATGGAAT -	STY1958	100	STY2332	88	STY1958	98.8	STY2332
ATGGATA +	STY3232	100	STY4252	66.019	STY3232	97.6	STY4252
ATGGCCG -	STY4126	100	STY3820	64	STY4126	99.6	STY3820
	HCM1.201	91	STY2365	52.475	HCM1.201	59.29	STY2365
GTGGTAA +	STY3980	100	STY3981	72	STY3980	98.5	STY3981
GTGGAAA +	STY3126	100	STY3604	68	STY3126	99	STY3604
GTGAAGT -	STY3221	100	STY3209	60.784	STY3221	99.1	STY3209
	STY0508	57	STY1522	55.14	STY0508	16.86	STY1522
ATGTCTA +	STY2962	100	STY1530	65	STY2962	98.9	STY0636
ATGTCTG -	STY3240	100	STY0545	58.491	STY3240	98.75	STY0545
	STY0718	63.551			STY0718	22.89	
TATGAAG +	STY4146	100	STY0765	61	STY4146	96.45	STY0602a
	STY2130	64.706	STY4806	64	STY4806	32.65	STY1178
	STY3270	100	STY0739	85	STY3270	52.21	STY0739
ATGAAAC -	STY0497	100			STY0497	98.6	
ATGATAA(+)	STY4213	100	HCM1.271	59.223	STY4213	100	STY1803
ATGGCAA -	STY3263	100	STY2613	61	STY3263	99.7	STY2613
	STY0602a	99	STY4835	66	STY0602a	79.26	STY4835
ATGGCAT +	STY4777	100	STY4331	58.252	STY4777	94.1	STY0636
ATGACTA +	STY4911	100	STY4725	63.462	STY4911	99.2	STY0231
ATGACGA +	STY2938	100	STY3951	60.396	STY2938	99.2	STY1670
ATGCGCT +	STY2341	100	STY2340	73	STY2341	98.6	STY2340
ATGCTTA(+)	STY2451	100	STY0376	67	STY2451	98.9	STY0376
ATGCCCG -	STY2309	100	STY0691	61.321	STY2309	97.9	STY0691
ATGACTG +	STY2344	100	STY4294	74	STY2344	99.2	STY0743
ATGAAAT(+)	STY2438	100			STY2438	99.3	
ATGACTG -	STY2335	100	STY0786	52	STY2335	100	STY0786
ATGGAAA -	STY1977	100	STY3909	59.615	STY1977	99.9	STY3909
ATGCTTA -	STY4101	100	STY3610	64.356	STY4101	99.2	STY0986
ATGAAAA -	STY4157	100	STY1399	62.745	STY4157	99.2	STY1091
ATGGAGC -	STY2426	100	STY0808	62.376	STY2426	97.27	STY0808
ATGGATT -	STY1900	100	STY2835	65.347	STY1900	98	STY2617
ATGAAAA -	STY4128	100	HCM2.004	59.048	STY4128	98.9	HCM2.004
	STY1042	100	STY1803	61.905	STY1042	97.1	STY0321
ATGGCAA +	STY4731	100	STY2466	67	STY4731	98.1	STY2466

TTGAAA -	STY3361	100	STY1127	63.462	STY3361	98.8	STY3924
GTGTTAG -	STY3456	100	STY3630	91	STY3456	99.8	STYnml
ATGGCAA -	STY3331	100	STY0792	66.355	STY3331	99.5	STY2524
ATGGAAG -	STY3223	100	STY0522	59.091	STY3223	99.8	STY0522
ATGATCC +	STY3504	100	STY4613	62.5	STY3504	98.7	STY4301
ATGTCCT +	STY4027	100	STY4821	64.423	STY4027	98.5	STY4821
ATGAAAA +	STY3337	100			STY3337	98.5	
ATGTAA -	STY1404	100	STY4095	63.551	STY1404	99.5	STY0123
ATGACTG +	STY4023	100	STY4796	78	STY4023	98.6	STY4796
TTGGCTT +	STY3329	100	STY3675	64.151	STY3329	90.65	STY3675
ATGAAAA +	STY3237	100	STY0979	82	STY3237	98.9	STY0979
ATGTCGA +	STY1110	100	STY0400	60.784	STY1110	97.5	STY0400
ATGAAAC +	STY0818	100	STY4754	62.264	STY0818	99.4	STY4754
ATGAGCC +	STY3250	100	STY0076	67.961	STY3250	98.6	STY0076
ATGTGTG +	STY1084	100	STY0590	66.981	STY1084	99.4	STY1979
ATGAAGC +	STY0794	100	STY0468	85.149	STY0794	98.27	STY0468
ATGAGTT +	STY0828	100	STY0643	60.396	STY0828	99.1	STY4086
ATGACCG +	STY0881	100	STY0900	74	STY0881	99.4	STY0900
ATGGTAA +	STY1465	99			STY1465	98.6	
ATGAGTC -	STY0482	100			STY0482	100	
ATGCACA -	STY3183	100			STY3183	98.7	
ATGAGTG +	STY3255	100	STY3423	86	STY3255	99	STY3423
ATGTTTG +	STY0529	100	STY2499	63.208	STY0529	99.1	STY2499
ATGGAAT +	STY0630	100	STY2864	57	STY0630	98.2	STY2864
ATGAAGA -	STY2739	100			STY2739	99.2	
	STY2980	60			STY2980	28.97	
ATGAAAA +	STY2377	100	STY0891	51.456	STY2377	100	STY2785
TTGTCAC -	STY0385	99			STY0385	99	
ATGGCTA +	STY0449	100			STY0449	99.7	
ATGGCCA +	STY4093	100	STY0401	61	STY4093	100	STY0401
ATGATTA -	STY4735	100	STY3230	63.107	STY4735	98.2	STY3230
ATGTGCA +	STY2978	100	STY3314	70.874	STY2978	99.6	STY3314
ATGCCAA -	STY1154	100			STY1154	99.1	
ATGAAAC +	STY1875	100			STY1875	98.54	
ATGTTTG -	STY1799	100	STY4458	63.725	STY1799	98.6	STY0519
TTGACTA +	STY4013	100	STY2875	61.538	STY4013	99	STY2875
ATGAGAC +	STY4012	100	STY3876	69.307	STY4012	98.8	STY2981
ATGAATG -	STY0065	99	STY3533	99	STY0065	96.3	STY3533
ATGGCTA +	STY0018	100			STY0018	96.9	
ATGACCA -	STY0066	100			STY0066	98.7	
ATGATTC +	STY0019	100	STY0020	100	STY0020	60.92	STY0019
ATGAGAC -	STY0035	100	STY0038	67.647	STY0035	99.6	STY0038
ATGAAAA -	STY0108	100	STY1809	90	STY0108	98.3	STY1809
ATGTCCG +	STY1183	100	STY4123	46.602	STY1183	100	STY4123
ATGATGA -	STY1451	100	STY0660	58.654	STY1451	100	STY0660
ATGATCA +	STY1402	100	HCM1.97	58	STY1402	99.6	HCM1.97
ATGCTTA -	STY1461	100	STY4103	61.682	STY1461	99.1	STY4103
	STY4670	59.223			STY4670	32.69	
ATGAGCA +	STY3417	100	STY3931	62.5	STY3417	100	STY3931
	STY0305	61.321			STY0305	17.04	
	HCM1.231	64.706	STY0732	63.551	HCM1.231	11.21	STY0732
	STY1400	62.745	STY4611	62	STY2110	2.07	STY1400

	STY3447	60.377	HCM1.167	57.426	STY3447	12.75	HCM1.167
	STY2467	54.717			STY2467	11.1	
	STY0716	36.634			STY0716	10.5	
	STY3214	57.944	STY3367	48	STY3214	30.05	STY3367
	STY1289	64.815	STY3652	62.5	STY3652	24.66	STY1289
	STY2205	71.569	STY4597	68.627	STY4597	56.23	STY2205
	STY1629	58.252	STY2434	44	STY1629	23.05	STY2434
	STY3052	61.386	STY0018	56.863	STY3052	27.27	STY0018
	HCM2.013	70	STY0288	57.282	HCM2.013	50.77	HCM1.54
ATGCGTG-	STY4618	99	STY3684	86	STY4618	91.46	STY3684
	STY2894	100	STY0628	70	STY2894	98.9	STY0628
	STY3047	62.5	STY3214	61.386	STY2473	15.84	STY3966
	STY3124	63.551			STY3124	13.72	
ATGAAAT(-	STY3270	100	STY0739	79	STY3270	98.5	STY0739
ATGGAAC+	STY0327	100			STY0327	100	
ATGAGTC-	STY0746	100	STY4235	88	STY0746	100	STY4235
ATGGCGA+	STY1031	100	STY2305	61.321	STY1031	100	STY2305
ATGTGGA+	STY1053	100	STY2034	98	STY1053	100	STY2034
ATGCGAT+	STY1069	100	STY2017	92	STY1069	100	STY2017
ATGAAAA-	STY2045	100			STY2045	100	
ATGCCCG-	STY0945	100	STY4039	56.436	STY0945	100	STY4039
ATGCATA+	STY1033	100	STY2633	60	STY1033	100	STY2053
ATGAGTT+	STY1055	100	STY2032	90	STY1055	100	STY2032
ATGAGCA+	STY1071	100	STY2015	100	STY1071	100	STY2015
ATGAGAG-	STY2047	100	STY1478	57	STY2047	100	STY1478
ATGGCTT-	STY2063	100	STY1342	62.376	STY2063	100	STY4067
ATGACTG+	STY1633	100	STY4615	57	STY1633	100	STY4615
ATGAAAA-	STY1890	100	STY1362	69	STY1890	100	STY1362
ATGGAGC-	STY2024	100	STY1063	68	STY2024	100	STY1063
ATGAACC+	STY3090	100	STY2081	60	STY3090	100	STY4111
ATGAACA-	STY2065	100	STY2066	47	STY2065	100	STY2066
GTGAAAT-	STY2209	100	STY1339	91	STY2209	100	STY1339
TTGAATC,+	STY2003	100	STY1413	60.952	STY2003	100	STY1413
	STY1077	100	STY1883	74	STY1077	100	STY1883
ATGGTGC-	STY2051	100	STY0364	61.386	STY2051	100	STY0364
ATGACTA-	STY0065	100	STY3533	100	STY3533	100	STY0065
ATGAGCC+	STY3668	100	STY4635	95	STY3668	100	STY4635
ATGAACC+	STY3684	100	STY4618	91	STY3684	100	STY4618
ATGACCG+	STY4663	100	STY3574	53.398	STY4663	100	STY3574
ATGTTGA-	STY4680	100	STY4678	97	STY4680	100	STY4821
ATGAAAA+	STY4832	100			STY4832	100	
ATGAGTG-	STY4881	100			STY4881	100	
ATGAAAT(-	STY4632	100	STY3516	92.079	STY4632	100	STY3516
ATGCCCC+	STY4664	100	STY3132	64.151	STY4664	100	STY3132

STY3315 60.784

STY3315 46.54

ATGCGAA +	STY3955	100	STY2481	76	STY3955	99	STY2481
ATGAAAA +	STY0473	100	STY4772	66	STY0473	98.7	STY0985
ATGACGC -	STY2222	100	STY3554	59.406	STY2222	98.6	STY3554
GTGAAAC +	STY0047	100	STY2479	58.929	STY0047	98.5	STY2479
ATGAAGA +	STY0085	100	STY2668	65.714	STY0085	99.6	STY2668
ATGAGTA +	STY3823	100	STY3252	61	STY3823	99	STY3252
ATGCTAT, -	STY3350	100	STY4275	61.538	STY3350	99.3	STY4876
ATGAAAA, -	STY3506	100	STY0749	60	STY3506	98.9	STY3109
ATGAGTC -	STY3546a	100			STY3546a	100	
ATGGCAA +	STY3570	100	STY0519	92	STY3570	98.8	STY0519
ATGAACA +	STY0704	100	STY0637	50.485	STY0704	97.48	STY0637
ATGATGA +	STY0177	100	STY0120	62.5	STY0177	98.3	HCM1.231
ATGTTAG +	STY0196	99	STY3814	59.813	STY0196	89.6	STY0786
ATGGCTG +	STY0232	100	STY2732	68	STY0232	97.9	STY2732
ATGGTGA +	STY0266	100	STY2384	58.416	STY0266	98.9	STY2384
	STY1536	75	STY1355	66.346	STY0871	11.22	STY1536
	STY0589	57.426			STY0589	13.22	
ATGAAAA, +	STY4268	100	STY4819	66	STY4268	96.2	STY4819
	STY4573	63.462	STY3917	57.009	STY3917	12.26	STY4573
ATGAATA, -	STY4940	100	STY0024	57.658	STY4940	97.8	STY0024
	STY2309	63.107	STY4003	54	STY2309	7.16	STY4003
	STY4835	95	STY0602a	64	STY4835	62.82	STY0602a
	STY0281	62.617	STY2584	60	STY2584	23.67	STY3394
ATGGCAG -	STY4613	100	STY3689	88	STY4613	90.8	STY3689
	STY2834	35.644			STY2834	7.83	
ATGTGCG +	STY0356	100	STY0004	61.321	STY0356	99.5	STY0004
ATGAATA, -	STY2901	100	STY2769	61.386	STY2901	98.87	STY2769
ATGAAGG +	STY1134	100	STY2407	68.317	STY1134	99.1	STY2407
ATGGAGA +	STY1172	100	STY4156	66.99	STY1172	99.7	STY2040
	STY4624	59.615			STY4624	8.36	
ATGCCAG +	STY1124	100	STY2329	79	STY1124	99.4	STY2329
GTGTGTC +	STY1162	100	HCM2.002	79	STY1162	99	HCM2.002
ATGCAAT, -	STY1195	100	STY3579	60.577	STY1195	97.7	STY3579
ATGATCA, +	STY1246	100	STYrarB	71.287	STY1246	98.9	STYrarB
	STY3759	77	STY0646	66.019	STY3759	47.89	STY0646
ATGGAAG +	STY4396	100			STY4396	97.84	
ATGTCCG -	STY1202	100	STY4787	89	STY1202	98.6	STY1673
ATGAAAA, -	STY4290	100	STY0054	63.81	STY4290	98.7	STY0054
	STY1287	61.165	STY2981	60.377	STY1159	15.53	STY3946
ATGACTC -	STY4232	100			STY4232	99.5	
ATGAGCG +	STY3797	100	STY2693	74.257	STY3797	99.4	STY2693
	STY1562	65.094	STY3006	64.545	STY3006	22.5	STY1562
	STY0605	67			STY0605	19.39	
ATGGCAG +	STY4442	100	STY4522	78	STY4442	99.4	STY4522
ATGAAAA, +	STY4482	100	STY4189	68.932	STY4482	98.2	STY4189
ATGCGAA -	STY3054	100			STY3054	99.2	
TTGAAAC, +	STY0904	100	STY2614	56.863	STY0904	98.7	STY2614
TTGCGCC +	STY2610	100	STY0131	67	STY2610	98.6	STY2281
	STY1097	36.275			STY1097	7.49	
	HCM2.001	63.462	HCM2.005	62	HCM2.005	10.34	STY1491a
ATGAAAC, +	STY2778	100	STY0002	65	STY2778	99.1	STY4769
ATGAAAA, +	STY4402	100	STY0400	84	STY4402	98.9	STY0400

	STY1633	78	STY4884	64.762	STY1633	33.11	STY4884
ATGAGCC +	STY4476	100	STY2599	62.5	STY4476	99.5	STY1899
ATGCTAA -	STY4515	100	STY2988	68	STY4515	99.4	STY2988
GTGCGCC +	STY4707	100	STY0522	72	STY4707	98.97	STY0522
ATGTTTC +	STY2639	100	STY1192	70	STY2639	99	STY1192
ATGTCTC -	STY2683	100	STY0670	59.813	STY2683	99	STY0670
ATGGCTT -	STY2726	100	STY3495	56	STY2726	98.9	STY3495
ATGCGAA +	STY1819	100	STY1429	64.423	STY1819	98.3	STY0456
ATGAAAA +	STY0029	100	STY0594	66	STY0029	98.2	STY0594
ATGCATA +	STY4730	100	STY3608	60	STY4730	98.7	STY3608
ATGCGAA +	STY4770	100	STY3044	58.416	STY4770	100	STY3044
ATGAAAA -	STY2500	100	STY3945	77	STY2500	98.8	STY3945
ATGATCC -	STY2549	100	STY1770	61.905	STY2549	99.7	STY1770
ATGAGAA -	STY2542	100	STY3409	66	STY2542	100	STY3409
ATGTCTG +	STY2569	100	STY3479	60.952	STY2569	99	STY3479
ATGCGCC +	STY2263	100	STY2778	50	STY2263	99.3	STY2778
ATGAATG -	STY3424	100	STY2567	72	STY3424	98.3	STY2567
	STY3087	83	STY3175	67.619	STY3087	59.48	STY3175
ATGAGCT -	STY1186	100			STY1186	99.5	
	STY3089	66	STY3088	59	STY3089	52.61	STY3088
ATGACGA -	STY0399	100	STY3876	73.267	STY0399	98.6	STY3876
ATGACCT +	STY1832	100	STY1565	63.107	STY1832	99.1	STY1565
ATGCAAC +	STY1694	100	STY2458	66	STY1694	98.8	STY2458
GTGACTC +	STY4739	100	STY0917	66.667	STY4739	95.9	STY0917
ATGAAAC -	STY2586	100	STY3046	68	STY2586	98.4	STY3046
ATGTCAC -	STY1773	100			STY1773	99.2	
ATGGCTG -	STY1751	100	STY1650	69.307	STY1751	98	STY1650
ATGACGT +	STY4910	100	STY0438	58	STY4910	98.7	STY0438
ATGCACA +	STY1570	100	STY1680	63.551	STY1570	98.5	STY1680
ATGAATG +	STY4008	100	STY0278	70.297	STY4008	99.2	STY0278
ATGGCGA +	STY4426	100	STY4257	76	STY4426	98.8	STY4257
ATGGACC -	STY3896	100	STY2422	74	STY3896	95.93	STY2422
GTGGCAA +	STY0275	100	STY3709	54.206	STY0275	99.3	STY3709
ATGGCGC -	STY2199	100	STY0823	61.682	STY2199	98.3	STY0823
ATGGAAA -	STY4437	100	STY4437	58.824	STY4437	99	STY4437
ATGACGC -	STY1809	100	STY1136	66.346	STY1809	85.3	STY1536
ATGCGTA -	STY1805	100	STY0888	62.745	STY1805	98.4	STY0888
	STY0083	73	STY4166	62.136	STY0083	56.82	STY4733
GTGGTAA +	STY1680	100	STY3546	62.745	STY1680	96.41	STY3546
ATGTCTA +	STY1215	100	STY1217	65.347	STY1215	99.9	STY1217
ATGAAAA -	STY2305	100	STY3632	77	STY2305	97.7	STY3632
ATGACGT +	STY0364	100	STY2649	60.577	STY0364	99.8	STY1256
ATGACGA -	STY4869	100	STY2475	61.765	STY4869	100	STY3176
ATGAAGC -	STY4945	100	STY0021	65	STY4945	98.2	STY0021
ATGATGA +	STY4183	100	STY3121	63.366	STY4183	98.6	STY3121
ATGGACA -	STY3453	100	STY2969	62.385	STY3453	99.3	STY2969
ATGCGTA -	STY2536	100	STY4949	62.136	STY2536	98.4	STY4949
ATGAGCC +	STY2515	100	STY3904	65.049	STY2515	99.3	STY3904
ATGAATC +	STY2729	100	STY2555	27	STY2729	99.2	STY2555
ATGCAAA -	STY0551	100			STY0551	99.4	
	STY1901	63.107	STY3144	57.843	STY1901	34.96	STY3144

	STY0816	60.194	STY2389	40	STY0816	22.3	STY2389
ATGTTTG,+	STY4047	100	HCM1.247	73	STY4047	97.9	HCM1.247
ATGTTGC +	STY4169	100	STY1305	66.981	STY4169	99.4	STY1368
ATGAGTA +	STY4172	100	STY1309	71.154	STY4172	97.6	STY1309
ATGACCT +	STY4266	100	STY1660	70	STY4266	97.1	STY1660
	STY2950	48	STY0575	38	STY2950	14.42	STY0575
ATGAGTA +	STY1022	100	STY1022	56	STY1022	99.8	STY1022
ATGGCAA +	STY4808	100	STY0961	61.165	STY4808	99.3	STY0961
ATGCCAG +	STY3073	100	STY0971	66	STY3073	97.8	STY0971
ATGGCTA -	STY4800	100	STY1386	62	STY4800	99.1	STY4553
ATGAGTG -	STY3768	100	STY0002	75	STY3768	98.4	STY4416
ATGGCCC -	STY0747	100	STY1143	62.963	STY0747	98.5	STY2479
ATGCTGA +	STY0753	100	STY2339	70	STY0753	99.4	STY2339
ATGATAA(+	STY0590	100	STY1975	68.571	STY0590	98.2	STY1975
ATGATGG +	STY2812	100	HCM1.158	64.762	STY2812	98.9	STY1383
GTGGCAA -	STY3824	100	STY2342	65.094	STY3824	99.3	STY4118
ATGAAAT(-	STY0696	100	STY0697	86	STY0696	87.27	STY0697
ATGGATC -	STY0289	100	HCM1.227	66.667	STY0289	98.9	STY4286
ATGAACG +	STY2806	100	STY0259	84	STY2806	99.4	STY0259
ATGCAAG +	STY4294	100	STY2344	74	STY4294	98.9	STY3812
ATGCCGT -	STY1356	100	STY0887	65	STY1356	98.6	STY4171
ATGGCAC -	STY0129	100	STY4189	52	STY0129	97.2	STY4189
ATGGCTG -	STY1302	100	STY2698	69	STY1302	98.8	STY2700
ATGGGCC -	STY3015	100	STY0511	63.208	STY3015	99.1	STY0511
GTGAACA -	STY2696	100	STY0781	78.218	STY2696	99.1	STY0781
ATGAGTC -	STY3849	100			STY3849	99.3	
GTGAGTC -	STY0684	100	STY0036	67	STY0684	99.4	STY2394
ATGCTAA +	STY3720	100			STY3720	99.6	
ATGAACA +	STY3856	100			STY3856	99.1	
GTGAGTT -	STY3879	100	STY0376	42	STY3879	100	STY0376
ATGAAAA +	STY1542	100	STY3594	59.259	STY1542	99.1	STY3594
ATGGCCG +	STY1230	100	STY0399	59	STY1230	100	STY0399
ATGTCAC -	STY1381	100	STY4274	89	STY1381	99.6	STY0403
ATGGGTC +	STY2742	100	STY1900	60.185	STY2742	98.7	STY1900
ATGAAAA(+	STY3543	99	STY3542	64	STY3543	98.5	STY3542
ATGAAAA +	STY4076	100	STY1520	59	STY4076	97.7	STY1520
ATGATGC +	STY0342	99	STY4302	59.615	STY0342	51.83	STY4302
ATGTTAC(+	STY3725	99	STY1326	67	STY3725	95.3	STY0642
ATGAAAC -	STY4010	100			STY4010	99.7	
ATGCATC +	STY2156	100	STY1981	75.728	STY2156	99.4	STY1981
ATGGAAA +	STY3908	100	STY2280	61	STY3908	100	STY2280
ATGAATG -	STY2242	100	STY3783	79	STY2242	99.2	STY3783
ATGTCTT(-	STY4493	100	STY2805	70	STY4493	98.1	STY0738
ATGGTTT,-	STY2120	100	STY2581	59.406	STY2120	99.04	STY2581
ATGTCGT +	STY1339	100	STY1306	61.765	STY1339	98.9	STY0130
ATGCAAA -	STY2857	100	STY0801	82.178	STY2857	99.5	STY0801
ATGAGTA -	STY3098	100	STY3099	86	STY3098	97.6	STY3099
ATGCTGA -	STY0467	100	STY1266	73	STY0467	98.2	STY4257
ATGCAAT(+	STY3582	100	STY3209	85	STY3582	99.8	STY3460
ATGCTGA -	STY3607	100	HCM1.07c	95	STY3607	98.8	HCM1.07c
	STY3632	100			STY3632	71.11	
ATGAATC(-	STY2093	100	STY3470	66.667	STY2093	99.4	STY3653

ATGCGTT -	STY3642	100	HCM1.103	66	STY3642	98.7	STY3608
ATGGCAA -	STY0124	100	STY3491	67.327	STY0124	98.74	STY3491
GTGATTC +	STY1303	100			STY1303	98.8	
ATGACTG +	STY1915	100	STY1526	77.228	STY1915	98.1	STY1526
ATGAAAC -	STY3142	100	HCM2.011	76.699	STY3142	99.5	STY3931
ATGAGCT +	STY1308	100	STY0887	78	STY1308	99.5	STY4171
ATGAAAC +	STY3833	100	STY0875	66.337	STY3833	99.1	STY0190
ATGGACG +	STY3604	100	STY3126	68	STY3604	99.2	STY3126
GTGATTG -	STY3650	100	STY3764	54.902	STY3650	99.7	STY3764
ATGGCAA +	STY1933	100	HCM2.005	63.725	STY1933	99	HCM2.005
ATGCAAT -	STY1294	100	STY2741	60.396	STY1294	98.9	STY2741
ATGACGA +	STY1467	100	STY4116	79	STY1467	99.2	STY3298
ATGAACA -	STY1976	100	STY4271	70.874	STY1976	98.8	STY4271
GTGCAAC -	STY2098	100	STY4314	59.223	STY2098	98.7	STY4314
ATGTCCG -	STY0550	100	STY3334	66.99	STY0550	98.2	STY0997
ATGATAA +	STY0575	100			STY0575	98.9	
ATGAAAC +	STY0579	100	STY2548	61	STY0579	99	STY2548
ATGGACG -	STY0621	100	STY2582	58.416	STY0621	98.4	STY4447
ATGTCCA -	STY0664	100	STY2723	64.486	STY0664	100	STY2723
	STY2154	60	STY3364	44	STY2154	16.72	STY3364
ATGAAAA -	STY1911	100	STY2167	66	STY1911	98.2	STY2167
ATGATCC -	STY1447	100	STY4313	66.019	STY1447	97.5	STY4313
ATGAAAA +	STY1444	100			STY1444	98.2	
ATGACTA +	STY1415	99			STY1415	72.81	
ATGAGAT +	STY1382	100	STY1226	85	STY1382	98.7	STY1226
ATGTCTC +	STY0544	100	STY0746	74	STY0544	98.7	STY4235
ATGACAA +	STY1538	100	STY0428	87	STY1538	98.8	STY0428
ATGAGTT +	STY1503	100	STY4793	70.588	STY1503	98.4	STY4793
	STY1553	77	STY3307	74	STY3307	47.82	STY1553
ATGAAGG +	STY0474	100	STY4050	50.98	STY0474	99.2	STY4050
ATGGCAA -	STY4229	100	STY1587	77	STY4229	98.3	STY1587
ATGGGCA +	STY3834	100	STY3833	99	STY3834	57.46	STY3833
ATGAAAT -	STY4123	100			STY4123	98.3	
ATGGCAG -	STY4062	100	STY3486	62.136	STY4062	98.5	STY3486
ATGAGAT +	STY4054	100	STY2960	64	STY4054	97.53	STY0005
ATGAAAC +	STY3117	100	STY3798	74	STY3117	98.7	STY3798
	STY4601	99	STY2882	92	STY4601	89.4	STY2882
ATGCGCA -	STY0430	100	STY1935	52.427	STY0430	94.85	STY1935
ATGTTTA -	STY3309	100	STY2128	63.107	STY3309	99	STY2128
ATGATGG +	STY4202	100			STY4202	81.53	
ATGATGA +	STY4100	100	STY3156	62.745	STY4100	99.3	STY4268
ATGCAGG +	STY3998	100	STY1249	61.386	STY3998	79.33	STY1249
ATGCGTC +	STY2875	100	STY1150	75	STY2875	98.4	STY1150
ATGGATA -	STY0061	100	STY0062	78	STY0061	88.83	STY0675
ATGGACT -	STY0462	100	STY2232	57	STY0462	99.7	STY2232
ATGGCTA +	STY3338	100	STY0276	70.093	STY3338	98.7	STY0276
ATGCTGA -	STY2387	100	HCM2.007	55.357	STY2387	99.4	HCM2.007
ATGTTTT -	STY0934	100			STY0934	98.8	
ATGTCGA -	STY4152	100			STY4152	99.3	
ATGTCCT +	STY4698	100	STY2709	55	STY4698	99.7	STY2709

ATGCGTA +	STY4778	100		STY4778	99.2
ATGATTC +	STY4360	100	STY1825	47.059 STY4360	100 STY1825
ATGATGA +	STY4714	100	STY0997	65.385 STY4714	99.4 STY0997
ATGGCGA +	STY3466	99	STY0361	61.765 STY3466	88.8 STY1467
ATGAAAG -	STY3379	100	STY3231	63.462 STY3379	99.1 STY2695
ATGAATA -	STY3297	100	STY3979	60.784 STY3297	99.7 STY2513
ATGAAGG -	STY2942	100	STY1589	68.627 STY2942	98.1 STY1589
TTGACCT +	STY4929	100	STY4775	60 STY4929	94.72 STY4775
ATGTTTA +	STY0408	100	STY1309	65.049 STY0408	98.5 STY1309
GTGACCA +	STY2448	100	STY4888	64 STY2448	89.55 STY4888
ATGATTG -	STY2301	100	STY4640	64.078 STY2301	99.4 STY4640
ATGCTAA -	STY2379	100	STY3920	89 STY2379	99.8 STY3920
GTGAAAA -	STY1965	100	STY0142	80 STY1965	98.9 STY0142
	STY3268	100	STY2657	80 STY3268	95.45 STY2657
ATGAAAC +	STY3220	100	STY0175	65.347 STY3220	98.4 STY0134
ATGAGCA +	STY0796	100	STY1683	74.257 STY0796	99.1 STY1683
ATGTCTT +	STY0855	100	STY1410	74 STY0855	99 STY2836
ATGAAAA -	STY3199	100		STY3199	99.6
ATGATCA +	STY1218	100	STY0744	63.725 STY1218	99.2 STY1216
ATGAAAC -	STY0825	100	STY1104	69 STY0825	99.4 STY1104
	STY1791	56.436		STY1791	13.34
ATGAGTA +	STY3496	100	STY2547	60.194 STY3496	99.7 STY2547
ATGGAGC +	STY4022	100	STY0538	92 STY4022	98.6 STY0538
ATGAATA +	STY3254	100	STY2523	67.327 STY3254	99.5 STY2523
TTGATCA -	STY2155	100	STY3876	60.952 STY2155	99.5 STY2281
ATGTTGT +	STY3510	100	STY0716	67 STY3510	97.9 STY0716
GTGATCT +	STY3436	100	STY1739	62.376 STY3436	95.43 STY2441
ATGCCGC +	STY3390	100	STY3049	68 STY3390	98.4 STY3049
ATGAAAA -	STY1721	100	STY3094	63.107 STY1721	98.1 STY0033
	STY2444	57.282	STY0277	53 STY0277	16.89 STY2444
ATGTTAG +	STY0786	100	STY1919	86 STY0786	99.1 STY1919
ATGCCAA -	STY2994	100	STY0442	59.406 STY2994	97.9 STY3658
ATGAATT -	STY2920	100	HCM1.178	72 STY2920	99.5 HCM1.178
ATGGCTA +	STY4067	99	STY2063	62.037 STY4067	99.4 STY2063
ATGGTAA -	STY2863	100		STY2863	100
ATGGCGA -	STY0587	100	STY2349	58 STY0587	99.5 STY2349
ATGAGCC +	STY1345	100	STY1137	83 STY1345	99.7 STY1137
	STY3345	60.748	STY2743	58.929 STY2743	45.37 STY3345
ATGAAAA +	STY2174	100	STY3233	90 STY2174	97.9 STY4537
ATGTCGC +	STY1473	100		STY1473	99.1
TTGATTA +	STY3615	100	STY1205	74 STY3615	88.95 STY1205
ATGGCAA +	STY3647	100	STY2807	61.765 STY3647	99.6 STY2329
ATGACCA +	STY0982	100	STY4341	60.55 STY0982	100 STY3715
	STY3064	85	STY3380	55.66 STY3064	75.73 STY3380
ATGAGCC -	STY4121	100	STY4742	66 STY4121	97.8 STY4742
	STY1760	83	STY0219	63.107 STY1760	72.9 STY2089
	STY0088	76	STY3082	57 STY0088	64.96 STY3082
	STY3614	99	STY4870	62.5 STY3614	44.79 STY4870
ATGGTTA +	STY4696	100	STY0629	60.784 STY4696	100 STY0629
ATGACTA +	STY4948	100	STY3614	54.286 STY4948	100 STY3614
ATGAACC +	STY0001	100	STY4430	60.606 STY0001	100 STY4430

	STY0358	56.075	STY1738	50	STY0358	40.52	STY1738
	STY4178	68.889	STY0395	57.778	STY4178	68.9	STY0395
	STY0531	40	STY0580	40	STY0531	36.72	STY0580
ATGAACA -	STY3376	99	STY3971	59.406	STY3376	95.69	STY1159
ATGTACG -	STY3471	100	STY3810	60	STY3471	99.1	STY4466
ATGCGCA +	STY0906	100	STY4105	75.728	STY0906	98.6	STY4105
	STY0970	93	STY1201	64.151	STY0970	56.55	STY4645
	STY1012	65	STY3762	63.107	STY1012	45.67	STY1292
GTGTCTG +	STY0759	100			STY0759	92.33	
	HCM1.2271	64.078	STY0511	60.784	HCM1.2271	43.15	STY0511
	STY0214	62.376	STY4230	62.136	STY0498	18.8	STY0214
	STY2517	36			STY2517	7.28	
	STY3850	64.356	STY3535	60.784	STY3850	14.22	STY3535
	STY4494	63	STY1344	60.396	STY4494	26.51	STY4515
	STY1958	100	STY0045	63.462	STY1958	98.3	STY2332
	STY0793	61.538			STY0793	6.78	
ATGAATA +	STY0039	100	STY0046	76	STY0039	98.7	STY0046
	STY2248	100	STY1349	90	STY2248	98.4	HCM1.159
	STY2332	100	STY1958	60.185	STY2332	99.8	STY0712
	STY2446	99	STY3319	63.462	STY2446	98.7	STY3319
	STY0964	100	STY1568	88	STY0964	99.7	STY1568
	STY3359	100	STY3943	72	STY3359	99.5	STY3943
	STY3422	100	STY1956	77.451	STY3422	98.2	STY3110
	STY3511	100	STY2717	80	STY3511	98.8	STY2717
	STY0121	62.5			STY0121	12.31	
ATGTTAT -	STY3189	100	STY4870	64	STY3189	100	STY1160
ATGAATA -	STY2069	100	STY4075	88.119	STY2069	100	STY4075
ATGAAAA -	STY2299	100	STY2444	65	STY2299	100	STY2444
GTGGCTC +	STY3686	100	STY4616	93	STY3686	100	STY4616
ATGAGTA -	STY3064	100	STY0132	55.238	STY3064	100	STY0132
ATGAAAA -	STY0207	100	STY0924	63.81	STY0207	100	STY1277
TTGCAGG -	STY3345	100	STY4117	59	STY3345	100	STY3344
ATGGCAA +	STY3664	100	STY4640	89	STY3664	100	STY4640
ATGAAAG +	STY3680	100	STY4622	97	STY3680	100	STY4622
ATGGCTT -	STY2887	100	STY3697	100	STY2887	100	STY3697
ATGCTTT -	STY0201	100	STY1460	66.337	STY0201	100	STY1460
ATGCCCC +	STY0314	100	STY0312	92	STY0314	100	STY0312
ATGGCTG +	STY3666	100	STY4638	91	STY3666	100	STY4638
GTGCTGC +	STY3682	100	STY4620	90	STY3682	100	STY4620
ATGGGGC +	STY3706	100	STY3224	98	STY3706	100	STY0437
TTGGGTA +	STY4075	100	STY4824	62.376	STY4075	100	STY4032
ATGACGA -	STY1593	100	STY3895	58.252	STY1593	100	STY3895
ATGACAT +	STY1610	100	HCM1.159	64.078	STY1610	100	STY3443
ATGCATT -	STY2750	100	STY3710	60	STY2750	100	STY3710
ATGAAAA +	STY2906	100	STY3422	61.905	STY2906	100	STY3422
	STY4108	100	STY1295	37	STY4108	100	STY1295
	STY4638	100	STY3666	91	STY4638	100	STY3666
ATGATCT +	STY4668	100	STY4518	93	STY4668	100	STY4518
ATGAAGC +	STY4821	100	STY4680	73	STY4821	100	STY4680
ATGACAG +	STY4549	100	STY2392	89	STY4549	100	STY3562

ATGGCGA+	STY4569	100	STY0244	70.588	STY4569	100	STY0244
ATGACTA-	STY4850	100	STY2932	67.961	STY4850	100	HCM1.182
ATGAAAA-	STY4619	100	STY3683	65.385	STY4619	100	STY3683
TTGCTCA+	STY4648	100	STY4857	89	STY4648	100	STY4857
ATGTTCC+	STY4665	100			STY4665	100	

ATGAACG-	STY0744	100	STY0433	79	STY0744	72.56	STY2343
ATGATGA-	STY3945	100	STY2500	76	STY3945	95.8	STY2500
ATGGCTG+	STY3927	100	STY0641	65.347	STY3927	98.9	STY4890
ATGCCTT+	STY3888	100	STY1934	60.396	STY3888	99.3	STY4862
ATGACCC+	STY1904	100	STY4279	62.136	STY1904	98.4	STY4279
ATGGCCA-	STY0130	100	STY1339	61.386	STY0130	98	STY1339
ATGAGTT-	STY0050	100	STY0762	48.077	STY0050	98.1	STY0762
ATGTTCC+	STY0139	100			STY0139	99.6	
ATGGACA-	STY0173	100	STY0617	79	STY0173	99.38	STY0617
	STY4943	76	STY1419	64.865	STY0032	48.23	STY0592
	HCM1.97	57.692	STY1519	38	HCM1.97	7.11	STY1519
ATGCTGA-	STY0263	100	STY0996	58	STY0263	100	STY0996
ATGCAAA-	STY3526	100	STY2528	64.545	STY3526	98.4	STY4917
ATGGACG+	STY3561	99	STY2903	63.366	STY3561	98.8	STY2903
GTGCGAT-	STY0698	100			STY0698	99.7	
ATGACAA+	STY0717	100	STY3212	73	STY0717	98.72	STY3212
ATGAGTA-	STY0738	100	STY2805	64.356	STY0738	99.1	STY4493
ATGACCT+	STY2170	100	STY0220	48	STY2170	98.9	STY4910
ATGAATA+	STY1831	100	STY1265	61.165	STY1831	99	STY1265
ATGACAA-	STY2328	100	STY4509	64	STY2328	82.09	STY4509
ATGAAGT-	STY4623	100	STY3679	95	STY4623	99.1	STY3679
	STY2953	61	STY1797	59.223	STY2953	48.09	STY1797
	STY4631	55.882			STY4631	17.11	
ATGAATA+	STY2912	100	STY4328	66.337	STY2912	99	STY0826
ATGAAAA-	STY4946	100	STY1183	58	STY4946	98.4	STY1183
	STY2295	63.107	STY2350	56.311	STY2295	15.4	STY2350
	STY4676	76	STY4586	59	STY4676	53.39	STY4586
ATGACAC+	STY1078	100	STY4281	61.386	STY1078	99.2	STY4281
ATGACCA+	STY1569	100	STY4509	60.952	STY1569	98	STY4509
ATGTCCA+	STY4346	100	STY2844	50	STY4346	99.2	STY2844
GTGGCG/-	STY1081	100	STY4406	55.882	STY1081	98.3	STY4406
ATGGTAT+	STY1666	100	STY3368	77.451	STY1666	98.7	STY3368
ATGCGTT+	STY4377	100	STY0419	62.136	STY4377	100	STY0064
ATGTGGC-	STY4329	100	STY1095	63.462	STY4329	99.2	STY1095
ATGCGCC-	STY4296	100	STY3305	53.465	STY4296	98.9	STY3305
ATGACTG-	STY1856	100	HCM1.255	58.824	STY1856	98.3	HCM1.255
GTGACGC-	STY1164	100	STY1165	100	STY1164	56.8	STY1165
ATGAAAA+	STY1238	100	STY2448	63.393	STY1238	98.3	STY2448
ATGAATA+	STY1258	100	STY0938	73	STY1258	98.9	STY4241
TTGAGCA+	STY4269	100	STY3196	68.269	STY4269	98.7	STY0372
	STY3590	57			STY3590	19.55	

	STY1635	79	STY4425	71	STY1635	40.3	STY4425
ATGACTG +	STY3814	100	STY0773	63.462	STY3814	96.5	STY0773
ATGACTG +	STY3780	100			STY3780	98.9	
ATGACCC +	STY3745	100			STY3745	99.3	
ATGGAAT +	STY3030	100	STY1984	67.647	STY3030	98.65	STY1984
ATGTTGA -	STY4697	100	STY3731	87	STY4697	98.6	STY0213
ATGGTCA +	STY2623	100	STY2941	64	STY2623	99.4	STY3762
ATGAGTA -	STY0924	100	STY0707	79	STY0924	99.6	STY2159
ATGGATG -	STY2709	100	STY2702	62.745	STY2709	99.3	STY2702
ATGTTCA +	STY2735	100	STY1793	72	STY2735	99	STY1793
TTGGCGT -	STY2797	100	STY3211	63.725	STY2797	92.43	STY0964
TTGGCGT -	STY3805	100	STY3806	100	STY3806	72.5	STY0171
TTGAGCG +	STY3771	100	STY3579	79	STY3771	96.51	STY3579
	STY1047	62.385	HCM1.241	61	STY0762	37.2	STY1047
ATGGTAA -	STY3051	100			STY3051	98.6	
ATGACAA -	STY3082	100			STY3082	99.5	
	STY4804	61.468			STY4804	7.18	
	STY0605	61.905	STY2032	51.485	STY0605	5.23	STY2032
ATGACTC +	STY1803	100	STY0697	65.347	STY1803	99	STY0697
ATGAATA +	STY1685	100	STY0419	61.538	STY1685	99.5	STY0419
ATGAAAA +	STY2192	100	STY0101	61.682	STY2192	96.2	STY1531
ATGAAAT +	STY2514	100	STY0260	55	STY2514	98.9	STY0260
ATGTTTC -	STY4855	100	STY3288	57.426	STY4855	98.6	STY2107
	STY4875	100	STY4020	77	STY4875	54.09	STY4020
ATGTATC +	STY1173	100	STY4048	62.136	STY1173	99.9	STY0551
ATGGATG -	STY1818	100	STY3144	60.577	STY1818	98.2	STY2664
ATGAAAT -	STY1676	100	STY4868	62.376	STY1676	98.8	STY4868
ATGTCCC +	STY1652	100	STY4601	62.5	STY1652	98.4	STY4601
ATGGGAC -	STY1646	100	HCM1.67	58.491	STY1646	99.1	HCM1.67
ATGTCAC -	STY1191	100	STY0414	75	STY1191	99	STY0414
ATGTTCT +	STY2986	100	STY2985	66	STY2986	98.5	STY2985
ATGAACA +	STY1669	100	STY4690	58.416	STY1669	98.4	STY4690
ATGCGTT +	STY2198	100	STY4489	57.282	STY2198	98.3	STY4489
ATGAGTC +	STY2283	100	STY0026	65	STY2283	99.1	STY0275
ATGCGGT -	STY1816	100	STY4530	74	STY1816	98.9	STY4530
TTGGAAT -	STY1678	100	STY1762	62.264	STY1678	97.55	STY2836
ATGAGCA -	STY1689	100	STY4818	63	STY1689	99.4	STY4818
ATGAAAA +	STY1656	100	STY3121	75.238	STY1656	99	STY0466
ATGAAGA -	STY1705	100	STY3017	71	STY1705	98.2	STY2180
ATGGCAG +	STY3903	100	STY0144	59.804	STY3903	93.48	STY0144
ATGAATG +	STY4000	100	STY3443	65	STY4000	98.8	STY1450
ATGGCTG -	STY2824	100	STY2849	90	STY2824	99.2	STY4085
GTGCTGC +	STY0433	100	STY2343	65	STY0433	99	STY2343
ATGAATC +	STY4401	100	STY2283	61.165	STY4401	98.42	STY2283
ATGAGCT -	STY0079	100	STY4398	60.784	STY0079	98.8	STY4398
ATGTCAA +	STY1789	100	STY2946	60.784	STY1789	98.66	STY2946
ATGAATA -	STY1781	100	STY2948	54.455	STY1781	97.29	STY2948
ATGATAC +	STY2189	100	STY4426	58.491	STY2189	99.1	STY0467
TTGATGG -	STY1660	100	STY4266	72	STY1660	99	STY4266

ATGCTGA -	STY1575	100	STY1574	63	STY1575	98.4	STY1772
ATGCATC +	STY2602	100	STY0848	65.686	STY2602	99.5	STY0554
ATGAAAA -	STY2819	100	STY3460	61.765	STY2819	99.8	STY3460
	STY2651	58.095			STY2651	8.92	
ATGCTTA +	STY3358	100			STY3358	98.7	
ATGATTC +	STY4241	100	STY0467	72.549	STY4241	99.3	STY1258
ATGAATA +	STY4314	100	STY1150	60.396	STY4314	97.2	STY0823
ATGAAAA +	STY0380	100	HCM1.271	59.406	STY0380	98.7	STY0872
ATGTTTA +	STY1739	100	STY4264	70	STY1739	98	STY4264
ATGAAAC +	STY0509	100	STY0294	52.475	STY0509	98.8	STY0294
ATGTTGA -	STY0607	100	STY2627a	96	STY0607	99.7	STY2627a
ATGAGCT -	STY4773	100	STY2426	61.321	STY4773	99.6	STY2426
ATGGATA -	STY4890	100	STY0644	89	STY4890	98.6	STY0644
ATGGTGA -	STY3367	100	HCM1.234	59	STY3367	98.5	HCM1.234
ATGAGCT +	STY3397	100	STY3511	60.784	STY3397	98.7	STY2936
ATGACCT +	STY3401	99			STY3401	98	
ATGGCGC +	STY4305	100	STY3176	63.725	STY4305	98.7	STY1491
GTGTCCC +	STY2568	100	STY2702	66	STY2568	99.1	STY2702
ATGATGC +	STY2800	100			STY2800	99.3	
ATGATCC +	STY0577	100	STY4341	56	STY0577	98.6	STY4341
ATGAAAA -	STY0576	100	STY1459	61	STY0576	99	STY1459
ATGAATG +	STY3033	100	STY1159	63.366	STY3033	99.1	STY0144
ATGCGCA -	STY3811	100	STY1959	60.194	STY3811	99.6	STY1959
ATGTACG +	STY0708	100	STY2160	79	STY0708	99	STY0867
ATGTCAG -	STY4391	100			STY4391	99.2	
ATGGCGA -	STY2828	100			STY2828	98.9	
ATGTTAA +	STY2287	100	STY0878	50	STY2287	99.3	STY0878
GTGATCG -	STY3871	100	STY3739	64.706	STY3871	99.2	STY4353
ATGAGCA +	STY0912	100	STY1265	68.317	STY0912	98.5	STY1265
ATGAGTT -	STY4387	100			STY4387	99.3	
	STY1366	77	STY2889	76	STY2889	61.8	STY3695
ATGCGTA +	STY1223	100	STY2529	63.462	STY1223	99.3	STY2529
ATGAGCA -	STY2826	100	STY3937	64.423	STY2826	98.8	STY3937
ATGAAAA +	STY4189	100	STY4482	68.932	STY4189	98.9	STY4482
ATGTTAA -	STY2802	100	STY3764	76	STY2802	99.2	STY3764
ATGGGAA +	STY1159	100	STY2911	81	STY1159	99.1	STY1467
ATGCAAA +	STY1655	100			STY1655	99.4	
ATGAGTA -	STY0900	100	STY0881	72.277	STY0900	98	STY0881
ATGAATC +	STY0877	100	STY3619	65	STY0877	99.4	STY3619
ATGAAGT +	STY1993	99	STY0688	59	STY1993	95.96	STY0688
ATGAACG +	STY2403	100	STY2988	93.137	STY2403	100	STY2988
ATGGAAA +	STY0767	100	STY0632	63	STY0767	98.9	STY1362
ATGAAAC -	STY4502	100	STY2753	63.107	STY4502	98.8	STY0674
ATGAAAA -	STY2146	100	STY0156	62	STY2146	99.4	STY0156
ATGAGGC +	STY1384	100	STY1304	77	STY1384	98.9	STY1304
ATGAGTG +	STY1373	100	STY0526	59.615	STY1373	99.2	STY0526
ATGGATA +	STY4460	100	STY0954	61.386	STY4460	98.8	STY0955
ATGTCTA +	STY0057	100	STY3153	60.952	STY0057	100	STY3308
ATGAAAA -	STY1039	100	STY1186	57.407	STY1039	99.6	STY1186
ATGTCCA +	STY1420	100	STY0635	53.922	STY1420	100	STY0635
ATGAATT +	STY3859	100	STY0049	63.107	STY3859	98.3	STY0049
ATGAAGG +	STY4244	100	STY4248	87	STY4244	97.23	STY4248

ATGCAGC +	STY3669	99	STY4633	92	STY3669	89.9	STY4633
	STY0321	100	STY0324	72.549	STY0321	90.1	STY0324
ATGATCG +	STY2674	100			STY2674	98.4	
ATGATCT, +	STY2111	100			STY2111	99	
ATGAATA, +	STY4457	100			STY4457	98.4	
ATGAAAG -	STY3164	100	STY3578	69.903	STY3164	96.64	STY3578
ATGCCGC +	STY3388	100	STY4490	57.843	STY3388	100	STY4490
ATGCATT, +	STY3000	100	STY4548	64	STY3000	98.8	STY4548
ATGTCCA -	STY3591	100	STY0554	64.706	STY3591	99	STY3644
GTGTCAC +	STY3940	100	STY4896	59.223	STY3940	98.73	STY4896
ATGACGC -	STY3219	100	STY4223	60.952	STY3219	99.4	STY4223
ATGACCA -	STY3626	100			STY3626	97.7	
ATGAACG +	STY3253	100	STY3472	71	STY3253	99.01	STY3472
ATGTCTA -	STY3733	100	STY3777	53	STY3733	99.7	STY0176
ATGAAAC +	STY0589	99	STY0024	76	STY0589	97.3	STY3918
ATGGCGC -	STY2125	100	STY2496	65.686	STY2125	99.2	STY3812
ATGTCTG -	STY3877	100	STY4856	61.538	STY3877	99.2	STY3257
ATGGCTG +	STY3158	100	STY0134	60.396	STY3158	99.3	STY3649
ATGAGCA +	STY3869	100	STY0593	60.194	STY3869	98.1	STY0593
ATGCAAT -	STY3612	100	STY0146	62.376	STY3612	99.14	STY4484
ATGTCAC +	STY3657	100	STY3095	63.551	STY3657	86.79	STY3095
	STY2167	100	STY4443	51.961	STY2167	55.23	STY4443
ATGTCCC -	STY3074	100	STY3721	61	STY3074	96.3	STY3721
ATGAAAG -	STY1493	100	STY2250	63.107	STY1493	99.2	STY4087
ATGATCA -	STY1454	100	STY4732	61.111	STY1454	98	STY4732
ATGAAGG +	STY1423	100	STY4924	76.238	STY1423	98.6	STY4924
ATGAAAA -	STY1393	100	STY1829	62.385	STY1393	98.11	STY2510
ATGAAAG +	STY1520	100	STY1758	64.151	STY1520	98.2	STY1555
ATGACCG +	STY1551	100	STY0617	60	STY1551	99.3	STY0617
ATGAGCC -	STY1004	100	STY3210	60.577	STY1004	99.4	STY3210
ATGACCG -	STY0634	100	STY0219	78.431	STY0634	98	STY0219
ATGAAAA -	STY0372	100	STY0206	81.553	STY0372	97.9	STY0206
GTGTCAC +	STY1310	100			STY1310	99	
ATGAAGC +	STY1476	100	HCM1.255	62	STY1476	95.76	HCM1.255
ATGTCGT -	STY1964	100	STY3344	64.356	STY1964	98.8	STY3344
	STY0321	52			STY0321	12.94	
ATGAAAA -	STYkdgA	100	STY0185	66	STYkdgA	99.2	STY0185
ATGGCAG +	STY2141	100	STY2143	70	STY2141	99	STY2143
ATGAAAC +	STYglxA2	100			STYglxA2	99	
ATGTTAA, +	STY0585	100	STY2384	68	STY0585	99.2	STY2491
	STY4202	66.337	STY4786	60.377	STY4202	18.5	STY0736
GTGCGTA +	STY0426	100	STY1260	62	STY0426	98.7	STY1260
ATGACTG -	STY3321	100	STY1523	65.049	STY3321	99.4	STY1523
ATGTTCA -	STY2952	100	STY4132	66.99	STY2952	99	STY1626
GTGGCAC +	STY4165	100	STY0231	60.784	STY4165	99	STY0231
ATGGCTG +	STY4865	99	STY3300	70	STY4865	98	STY3300
ATGAAAA -	STY2632	100	STY4111	64.423	STY2632	98.2	STY4111
ATGGGTT -	STY4021	100	STY2693	56	STY4021	99.1	STY2693
ATGATAA, +	STY3130	100			STY3130	99.2	
ATGACAG -	STY3174	100			STY3174	97.6	
GTGGTTC -	STY3258	100	STY0494	61.538	STY3258	99.1	STY0494
ATGAGTC -	STY0508	100	STY3942	60.377	STY0508	99.1	STY3942

ATGCCGC -	STY2926	100	STY3762	66.019	STY2926	99	STY3762
ATGCAAA -	STY4069	100	STY3717	64.706	STY4069	98.5	STY3717
ATGCTCG +	STY3111	100	HCM1.226	62.136	STY3111	98.9	STY3881
GTGGACC -	STY3163	100	STY0585	62.136	STY3163	99.4	STY0585
	STY0576	64.706	STY3795	61.905	STY0576	51.16	STY3795
ATGAATA -	STY3294	100	STY4165	57.843	STY3294	92.3	STY4165
ATGGCTA -	STY2950	100	HCM2.000	82.353	STY2950	98.8	HCM2.000
ATGTTTA -	STY2330	100	STY0955	57	STY2330	97.8	STY0955
	STY2469	100	STY4611	81	STY2469	66.53	STY4611
ATGCGAG -	STY4083	100	STY2280	64.706	STY4083	98.7	STY4084
ATGCCAC +	STY4362	100	STY1554	59.406	STY4362	100	STY1775
ATGCAGT -	STY3508	100	STY4235	63.725	STY3508	99.5	STY0544
ATGAACA -	STY3433	100	STY3854	63.107	STY3433	99.9	STY3854
ATGAATA -	STY4211	100	STY1670	74	STY4211	99	STY1670
ATGAAAC -	STY0949	100	STY3387	59.223	STY0949	98.7	STY3387
ATGGAAG +	STY4783	100	STY0747	62.963	STY4783	98.9	STY0747
ATGGCAA +	STY4921	100	STY0077	63.208	STY4921	97.6	STY0077
	STY2339	64	STY3569	57	STY2339	25.56	STY3569
ATGCGCC -	STY1814	99	STY3549	63.107	STY1814	97.8	STY3549
ATGAATG -	STY4688	100			STY4688	97.65	
GTGAGTC -	STY2945	100	STY4684	58	STY2945	99.8	STY4684
ATGGAGA -	STY2430	100	STY1956	77	STY2430	98.5	STY1956
	STY3693	80	HCM1.32c	59.048	STY3693	59.04	HCM1.32c
ATGAAAA -	STY2380	100	STY0372	63.81	STY2380	99.7	STY0206
ATGACTC -	STY2409	100	STY2458	63.107	STY2409	99.8	STY0387
ATGAATC -	STY1720	100	STY4879	61.165	STY1720	96.9	STY4879
ATGAAAT +	STY1090	100	STY0911	65.385	STY1090	99.3	STY4227
	STY4867	61.765	STY4573	60.784	STY4867	12.87	STY4573
ATGAATT -	STY0875	100	STY3833	68	STY0875	99.3	HCM1.236
ATGAAAT +	STY1812	100			STY1812	98.5	
ATGGCCA +	STY3432	100	STY0701	64.356	STY3432	99.5	STY0701
ATGTTTC -	STY0850	100	STY0851	64	STY0850	99.2	STY0851
GTGCAAA -	STY3212	100	STY0717	72	STY3212	99.3	STY0717
ATGAAAG -	STYnml	100	STY3456	63.81	STYnml	96.4	STY1290
ATGAATA +	STY3404	100	STY0644	83.168	STY3404	99.1	STY0644
ATGTTGA +	STY3233	100	STY3232	68	STY3233	91.34	STY2393
ATGAAAC +	STY1129	99	STY2394	63.303	STY1129	98.1	STY2394
ATGGAAA +	STY2996	100	STY4515	68	STY2996	99.1	STY2988
ATGTTAG +	STY4029	100	STY2979	58.416	STY4029	98.3	STY1127
ATGACCT +	STY3341	100	STY0536	52	STY3341	98.9	STY0536
ATGGATA -	STY1714	100	STY1907	66	STY1714	100	STY1907
ATGAGCG +	STY1141	100	STY2520	75	STY1141	98.8	STY2501
ATGTCAT +	STY0811	100	STY0938	66.019	STY0811	98.6	STY4224
ATGGACT +	STY2722	100	STY1593	48	STY2722	99.5	STY1593
ATGGCCT -	STY2785	100	STY0012	67	STY2785	99	STY0012
ATGATTA +	STY2720	100	STY4235	64.423	STY2720	99.4	STY4409
ATGTCGC -	STY0524	100	STY2553	61.165	STY0524	100	STY0981
ATGGGAA -	STY1925	100	STY1846	70	STY1925	99.6	STY1846
ATGGCAC -	STY4411	100	STY4883	62	STY4411	98.9	STY0144
ATGTTTG -	STY4889	100	STY0645	76	STY4889	100	STY0645
ATGGAAC +	STY4278	100	STY3824	65	STY4278	95.61	STY3824
ATGAAGC -	STY4247	100	STY2523	64	STY4247	99.5	STY2376

TTGAGAT. -	STY4514	100	STY1661	63.81	STY4514	98.6	STY4452
	STY1608	69	STY2645	48.544	STY1608	38.43	STY2645
ATGGCTG -	STY4638	100	STY3666	93	STY4638	98.2	STY3666
ATGCAGC -	STY4140	100	STY1437	59	STY4140	99	STY1437
	STY0711	55.34			STY0711	8.23	
ATGACAC +	STY0363	100	HCM2.009	62	STY0363	99.3	HCM2.009
ATGAAAC +	STY0004	100	STY1930	64.078	STY0004	97.47	STY2740
TTGAATG. +	STY1582	100	STY1690	48	STY1582	93.02	STY1690
GTGGCCC -	STY1684	100	STY4101	59.223	STY1684	62.98	STY1428
ATGCGGC +	STY0036	100	STY0014	73	STY0036	97.22	STY0014
ATGCATG +	STY0073	100	STY3505	62.136	STY0073	98.8	STY0402
ATGACTA -	STY0038	100	STY0035	67	STY0038	68.5	STY0017
ATGAAAA -	STY0041	100	STY2659	66	STY0041	99.6	STY2659
ATGCGTC -	STY1197	100	STY0851	52.941	STY1197	100	STY0851
	STY3390	60.55	STY2213	58.252	STY2213	37.62	STY3390
ATGCTAA -	STY3455	100	STY3033	62.385	STY3455	99.2	STY0002
ATGATTC +	STY3412	100	STY4468	62.376	STY3412	99.5	STY4184
	STY2651	43.81			STY2651	12.3	
ATGGATC +	STY0989	99	STY2460	53.398	STY0989	99.5	STY2460
	STY0310	58.654			STY0310	24.84	
ATGGATT +	STY0798	100	STY3643	83	STY0798	98.6	STY3643
	STY3803	64.356	STY2602	63.725	STY0368	4.24	STY1369
	STY1217	62.617	STY0308	57.282	STY0308	36.21	STY1217
	STY2719	58.824			STY2719	21.37	
	STY3920	65.686	STY3176	63	STY3176	15.22	STY3920
	STY4221	59.434	STY1913	59.223	STY4221	13.2	STY1913
	STY3566	59			STY3566	35.66	
ATGTTTA -	STY2128	100	STY4234	63.725	STY2128	99.3	STY4892
	STY0046	100	STY0039	76	STY0046	98.1	STY0039
	STY0118	99	STY4119	77	STY0118	96.7	STY4119
	STY0259	100	STY2806	80	STY0259	99.2	STY2806
ATGTATG. +	STY0321	100	STY2973	57	STY0321	98.1	STY2973
	STY0973	100	STY3423	78	STY0973	98.9	STY3423
	STY1011	100			STY1011	99.8	
	STY2222	62.376			STY2222	16.03	
	STY3570	100	STY0519	81	STY3570	98.7	STY0519
GTGGATA -	STY2053	100	STY4805	58	STY2053	100	STY4805
ATGAAAG -	STY3632	100	STY2305	76	STY3632	100	STY2305
ATGAAAC -	STY3670	100			STY3670	100	
ATGATCA -	STY2889	100	STY3695	100	STY2889	100	STY3695
TTGAGGA +	STY3950	100	STY4205	61.818	STY3950	100	STY4205
ATGAAAC -	STY1545	100	STY3353	61	STY1545	100	STY3353
ATGACTA. +	STY2071	100	STY1302	48	STY2071	100	STY1302
GTGATAA +	STY2349	100	STY2758	64.706	STY2349	100	STY2085
	STY2730	100	STY3429	79.412	STY2730	100	STY3429
ATGAAAC +	STY3918	100	STY3084	58.416	STY3918	100	STY3084
ATGGCTA +	STY1361	100	STY1035	45.283	STY1361	100	STY1035
ATGATTA(-	STY1599	100	HCM1.232	63.725	STY1599	100	HCM1.232
ATGAAGT -	STY2351	100			STY2351	100	

ATGAAGA +	STY2748	100	STY0793	74	STY2748	100	STY0793
	STY2889	100	STY3695	100	STY2889	99.83	STY3695
ATGATAA -	STY0203	100	STY3501	52.427	STY0203	100	STY3501
ATGACCG +	STY0323	100	STY0328	84	STY0323	100	STY0328
ATGATAA +	STY0479	100	STY0476	66	STY0479	100	STY0476
ATGAAAC +	STY3692	100	STY1639	67	STY3692	100	STY1639
ATGAAAA +	STY3948	100	HCM1.43	66.346	STY3948	100	STY4592
ATGTTCC +	STY4208	100	STY1233	61	STY4208	100	STY1233
ATGCAAA +	STY4521	100	STY4757	65	STY4521	100	STY4748
ATGAATG +	STY4554	100	STY2728	65.049	STY4554	100	STY3877
ATGAATC +	STY4573	100	STY3577	59	STY4573	100	STY3577
ATGGCTA +	STY4672	100			STY4672	100	
GTGACCA -	STY4825	100	STY4483	58.252	STY4825	100	STY4483
GTGAGCA +	STY4594	100	STY3349	65.385	STY4594	100	STY4593
ATGAAAA -	STY4222	100	STY4217	71	STY4222	100	STY4217
ATGACTT +	STY4526	100	HCM2.004	56.863	STY4526	100	HCM2.004
ATGAAAA +	STY4550	100	STY4551	61	STY4550	100	STY4551

ATGCAAC -	STY3018	100			STY3018	100	
ATGCGTA +	STY0532	100	STY3333	75.248	STY0532	99.7	STY3333
ATGTAA(-	STY2232	100	STY1897	65.138	STY2232	93.5	STY0294
ATGCTTT(+	STY3994	100	STY2432	68.317	STY3994	98.5	STY2432
ATGAGAC +	STY0069	100	STY0671	78	STY0069	98.5	STY0671
ATGAATA -	STY0105	100	STY1536	60.194	STY0105	99.5	STY1536
ATGTCTG +	STY0254	100	HCM2.001	65	STY0254	99.1	HCM2.001
ATGGAAA +	STY3485	100	STY4673	66	STY3485	99	STY2605
ATGGCTG -	STY3524	100	STY3744	61.321	STY3524	99.5	STY0883
ATGAAAA +	STY3557	100	STY1553	52.427	STY3557	98.9	STY1553
ATGACGC -	STY0690	100	STY0147	64.078	STY0690	99.3	STY0147
ATGATTA(-	STY0707	100	STY2159	76	STY0707	98.6	STY0866
ATGGCAG -	STY0191	100			STY0191	98.5	
ATGTCTG -	STY0213	100	STY2554	61.386	STY0213	98.1	STY2554
ATGGCGA +	STY0247	100			STY0247	98.3	
ATGCAAA -	STY1553	100	STY3307	80	STY1553	99	STY3307
ATGATGA -	STY1522	100			STY1522	98.6	
	STY2430	60	STY2284	53.846	STY2430	8.69	STY2284
ATGAATA(+	STY4242	100	STY1588	63.208	STY4242	98	STY2479
ATGATGA +	STY4909	100			STY4909	99.1	
ATGCCTC +	STY0278	99	STY1538	74.757	STY0278	96	STY1538
ATGATGA -	STY0354	100	STY3635	66	STY0354	98.9	STY3635

TTGACCA -	STY1089	100			STY1089	99	
	STY4625	100	STY3677	98	STY4625	92.29	STY3677
	STY0322	57.143	STY1779	51.961	STY0322	13.54	STY1779
	STY3025	93	STY4835	93	STY3025	63	STY4835
ATGTAA(-	STY1095	100	STY4329	90	STY1095	98.8	STY4329
ATGGCAA -	STY1155	100	STY0049	48.571	STY1155	98.7	STY0049

ATGCCAG +	STY1193	100	STY1286	64.151	STY1193	98.7	STY3577
GTGAATC +	STY3886	100	STY4451	71	STY3886	98.5	STY4451
ATGCCGC +	STY1138	100	STY4234	61.386	STY1138	98.4	STY2936
GTGTGCC +	STY1175	100	STY3070	62	STY1175	99.4	STY3070
ATGAGCA +	STY1235	100	STY2826	59.804	STY1235	100	STY2826
ATGCCTG +	STY1256	100	STY0821	73.529	STY1256	99.1	STY0821
ATGTCCA +	STY4272	100	STY4803	65.094	STY4272	99.4	STY4803
ATGATGA +	STY1187	100	STY1442	69.608	STY1187	99.4	STY1442
ATGAGCA -	STY4301	100	STY2245	70	STY4301	99	STY2245
	STY0359	62.136			STY0359	6.38	
ATGAATT +	STY1834	100	STY2336	82	STY1834	98.2	STY2859
ATGAATA +	STY3867	100			STY3867	98	
ATGAGTC +	STY3783	100	STY2242	80	STY3783	99.3	STY2242
	STY2900	55			STY2900	7.55	
	STY1626	85	STY1004	63	STY1626	70.9	STY1004
ATGTCTA +	STY4466	100	STY3932	68	STY4466	98.8	STY3932
GTGACGC +	STY4503	100	STY0962	78	STY4503	98.6	STY1566
	STY3068	75	STY1136	68.269	STY3068	61.9	STY1136
ATGAACG -	STY0922	100	STY2583	67.961	STY0922	99.6	STY2583
ATGAAAA -	STY2654	100	STY2499	63.725	STY2654	99.3	STY2499
	STY2797	65.714	STY0522	59	STY0522	29.76	STY2797
ATGATTC +	STY0935	100	STY2719	61.905	STY0935	98.6	STY2719
ATGCATG +	STY1006	100	STY3652	79.412	STY1006	98.1	STY3652
	STY2758	61.765			STY2758	11.03	
	STY2668	70.588	STY3144	66	STY3144	26.36	STY2668
ATGCTGA +	STY4489	100	STY0235	91	STY4489	99.5	STY4194
ATGGCGA +	STY4694	100	STY3564	64.356	STY4694	99.1	STY2447
ATGAAAA -	STY2615	100	STY1195	71	STY2615	99.6	STY1195
ATGAAAA +	STY2659	100	STY0041	66	STY2659	99.7	STY0041
ATGCGCT -	STY2713	100			STY2713	99.2	
	STY2746	100	STY2748	58	STY2746	79.13	STY2748
ATGCCAC +	STY2999	100	STY3312	50.962	STY2999	99.3	STY3312
ATGCTGT -	STY4711	100	STY0920	74	STY4711	96	STY0920
ATGACCA +	STY4748	100	STY4521	59.804	STY4748	99.7	STY4521
ATGAAAC -	STY2485	100	STY0294	64.423	STY2485	98.9	STY4503
	STY4820	100	STY4284	76	STY4820	85.41	STY4284
ATGGAAA -	STY2565	100	STY3463	63.551	STY2565	99.4	STY0571
ATGGTGA -	STY2556	100	STY0440	58	STY2556	98.9	STY0294
	STY3876	73	STY3748	71.154	STY4012	21.67	STY1370
ATGAAAT -	STY2162	100	STY0923	61	STY2162	98.4	STY0868
ATGAAAG +	STY4355	100	STY0489	63.366	STY4355	99.4	STY0489
ATGCGTA -	STY1096	100			STY1096	100	
ATGAAAA -	STY1262	100	STY0910	65.347	STY1262	99.4	STY0910
GTGAAAA -	STY2704	100	HCM2.007	64.078	STY2704	99	STY4448
ATGAAGA -	STY1265	100	STY0912	68	STY1265	98.8	STY0912
GTGAACA +	STY1783	100	STY0997	60.194	STY1783	98.9	STY0997
ATGGGAA +	STY4728	100	HCM1.125	69.307	STY4728	98.3	HCM1.125
ATGACCC -	STY4763	100	STY0244	62.745	STY4763	99.3	STY0244
	STY2603	75	STY4230	73	STY2603	56.15	STY4230
ATGCATA +	STY1182	100	STY0405	56.436	STY1182	99.7	STY4272
ATGCGCA +	STY2000	100	STY4444	52.475	STY2000	98.7	STY4444
ATGAGCC -	STY1299	100	HCM1.178	75	STY1299	100	HCM1.178

ATGCAAA -	STY1212	100	STY0577	62.857	STY1212	98.6	STY0577
	STY2296	74	STY2271	58.654	STY2296	60.65	STY2271
ATGGCAA +	STY3986	100	STY3656	68	STY3986	98.9	STY0565
ATGGCAA +	STY3914	100			STY3914	98.8	
ATGATGA +	STY2834	100	STY0777	68	STY2834	98.2	STY4703
ATGAGCA -	STY0270	100	STY4829	62	STY0270	99	STY4829
ATGCAGT +	STY0109	100	STY4117	67	STY0109	99.4	STY4117
ATGGACA -	STY2614	100	STY4467	73.267	STY2614	99.4	STY4467
ATGATTG -	STY1766	100	STY4400	91	STY1766	99.4	STY4400
ATGGATA +	STY1762	100	STY2882	93.069	STY1762	99.3	STY2882
ATGATGA -	STY1002	100	STY1649	78	STY1002	99.6	STY0365
ATGAAAC +	STY4250	100			STY4250	98.7	
ATGAATA -	STY1708	100	STY3303	61.386	STY1708	96.27	STY3303
ATGGCAA -	STY2483	100	STY2970	76	STY2483	99.4	STY2970
ATGGCTT +	STY0302	99	STY2625	59.813	STY0302	89.9	STY2625
ATGTCTG -	STY4906	100	STY0655	64.706	STY4906	98.6	STY3400
TTGACCC +	STY4158	100	STY3956	72	STY4158	98.3	STY3956
GTGAAAG +	STY3439	100	STY1353	62.376	STY3439	97.2	STY1353
ATGAAGC -	STY3462	100	HCM1.187	56	STY3462	100	HCM1.187
ATGAAAA +	STY2653	100	STY3119	63	STY2653	99.5	STY2652
GTGGAAA -	STY2766	100	STY2767	90	STY2766	88.51	STY2767
ATGGGAT +	STY0558	100	STY0272	68	STY0558	99.4	STY0272
ATGGCTA -	STY0651	100	STY0684	64	STY0651	96.6	STY0684
ATGACAA -	STY4923	100	STY2580	62.963	STY4923	95	STY2580
ATGAGCC +	STY4131	100	STY4404	58.095	STY4131	99	STY4404
ATGCAGC +	STY4197	100	STY2951	64.356	STY4197	99.2	STY1179
ATGATCG +	STY4201	100	STY0822	59	STY4201	99.4	STY0822
	STY0357	74	STY4670	60.577	STY0357	39.35	STY4423
ATGGTAA -	STY4797	100			STY4797	98	
ATGAAAA +	STY1743	100	STY2277	65	STY1743	98.8	STY2277
ATGTTAA -	STY4492	100	STY4162	61	STY4492	99.2	STY4162
GTGAGAA +	STY1207	100	STY0020	62.745	STY1207	98.2	STY0020
ATGAAAC -	STY2695	100			STY2695	98.2	
ATGATTG -	STY3850	100	STY2785	60.194	STY3850	99.1	STY2785
ATGAGTA +	STY0683	100	STY0931	58	STY0683	99.1	STY4890
ATGAATG -	STY1700	98	STY2188	64	STY1700	96.6	STY2188
ATGCGCC -	STY2240	100	STY4270	56.863	STY2240	98.8	STY4270
ATGCCGT +	STY4096	100	STY3038	61.538	STY4096	99.4	STY3038
ATGGCTA -	STY0846	100	STY1930	63.81	STY0846	98	STY1930
ATGCTGG +	STY0816	100	STY0924	71	STY0816	99.2	STY1573
ATGAAAA +	STY1744	100	STY2096	79	STY1744	99	STY2096
ATGATGT -	STY2581	100	STY2159	82	STY2581	98.6	STY2159
ATGAGCC -	STY0132	100	STY3318	55.446	STY0132	98.5	STY3318
ATGAAAA +	STY0231	100	STY3528	87	STY0231	99	STY3528
GTGAATA +	STY0493	100	STY3715	76	STY0493	100	STY3715
ATGAAAA -	STY4388	100	STY1929	62.136	STY4388	98.5	STY1929
ATGAATA -	STY3004	100	STY1235	55.882	STY3004	98.8	STY1235
ATGAAGA +	STY0593	100	STY0026	76	STY0593	98.5	STY0026
ATGCCGA -	STY0772	100	STY2479	75.728	STY0772	98.6	STY2479
ATGTCCG +	STY0782	100	STY4775	63.551	STY0782	96.6	STY4775
GTGATAC -	STY3711	100	STY1370	78	STY3711	97.9	STY3876

GTGCAA +	STY4210	100	STY2812	61.538	STY4210	98	STY1209
ATGAGAT +	STY2245	100	STY3827	63.462	STY2245	97.1	STY3827
	STY3006	100	STY0544	61.386	STY3006	70.87	STY4232
ATGAGTT -	STY2552	100	STY4251	63.725	STY2552	99.3	STY2972
ATGGGCA -	STY3545	100	STY1681	62.376	STY3545	98.9	STY1681
ATGGAAG +	STY4452	100	STY4453	100	STY4453	58.83	STY4452
ATGGTTG -	STY2856	100	STY3212	63.107	STY2856	98.9	STY3212
ATGCGTG -	STY1177	100	STY0089	64.078	STY1177	99.3	STY0089
ATGGTTC -	STY3854	100	STY4264	65	STY3854	99.2	STY3892
ATGTTAC -	STY3716	100	STY2911	60.185	STY3716	99.2	STY2911
ATGAGCC -	STY2968	100			STY2968	98.5	
ATGTCTA +	STY3861	100	STY3860	83	STY3861	98.6	STY3860
ATGCGCC -	STY0716	100	STY0891	55	STY0716	98.9	STY0891
ATGAGGC +	STY0498	100	STY0127	67.327	STY0498	99.1	STY0127
ATGGCAA +	STY4475	100	STY1674	63.107	STY4475	99.1	STY2252
GTGGTTT +	STY1395	100	HCM2.003	62.376	STY1395	98.2	STY2762
ATGCCAT +	STY3563	100	STY3444	64.706	STY3563	98.9	STY3444
ATGAAAG -	STY3128	100	STY1427	60	STY3128	99	STY1427
ATGACGA -	STY3041	100	STY3240	62.136	STY3041	99.5	STY4649
ATGATAG +	STY3813	100	STY2343	63	STY3813	99.3	STY4295
ATGGAAA -	STY0897	100	STY3988	69	STY0897	98.5	STY3988
ATGAACG +	STY3616	99	STY3550	61.818	STY3616	96.9	STY3550
ATGCCTA -	STY3653	100	STY2093	61.321	STY3653	97.1	STY2093
ATGGATT -	STY0083	100			STY0083	99	
ATGCAAC -	STY3655	100	STY1078	87	STY3655	99.6	STY3122
ATGAATA -	STY2769	100	STY1573	63.462	STY2769	65.03	STY2664
ATGTCAA +	STY1944	100			STY1944	95.84	
ATGAATT -	STY1321	100			STY1321	99.4	
ATGGAAC -	STY3113	100	STY4484	65.138	STY3113	99.1	STY4484
ATGTTTT +	STY3061	100	STY3815	87	STY3061	98.8	STY4114
GTGGCG -	STY3595	100	STY3596	100	STY3596	99.3	STY3595
ATGTTAG +	STY3621	100	STY3677	47	STY3621	97.74	STY3677
ATGAGTG -	STY3738	100	STY1864	63.889	STY3738	100	STY0119
GTGATTA +	STY1956	100	STY3110	87	STY1956	95.03	STY3110
ATGACAC -	STY1281	100	STY4406	62.5	STY1281	98.9	STY4406
GTGAACA +	STY1907	100	STY3038	86	STY1907	98.7	STY3038
ATGGTTG +	STY1961	100	STY4016	66	STY1961	98.16	STY2336
ATGATGC -	STY2080	100	STY2738	64.706	STY2080	98.1	STY2738
ATGCGTA -	STY2109	100	STY3196	69	STY2109	98.5	STY3196
ATGTTAC +	STY0566	100	STY3040	62	STY0566	98.5	STY3040
ATGCCTA -	STY0586	99			STY0586	83.86	
TTGTCGG -	STY0616	100	STY0615	99	STY0616	59.85	STY0615
ATGAAAA -	STY1481	100	STY0438	70	STY1481	99.1	STY0438
ATGAGCC -	STY1446	100	STY1153	67.961	STY1446	97.46	STY1153
ATGACAA +	STY1505	100	STY4273	74	STY1505	86.15	STY4273
ATGCGAC -	STY1931	100	STY3928	61.386	STY1931	99.1	STY3928
	STY1493	65.049	STY3785	59.804	STY1493	17.86	STY3785
ATGACGC +	STY1431	100	STY1868	65	STY1431	74.75	STY1868
ATGGCTA +	STY1397	100	STY0402	50.98	STY1397	97.3	STY2475
ATGATGA -	STY1349	100	STY2248	69	STY1349	99	STY4188
ATGACAG +	STY0675	100	STY0061	67	STY0675	98.7	STY0061
ATGATTG +	STY0986	100	STY1578	70.588	STY0986	98.7	STY1578

ATGCTCG +	STY0961	100	STY2716	59	STY0961	99.1	STY2716
ATGTCAT(+)	STY3251	100	STY3008	61.682	STY3251	98	STY3008
ATGATGA -	STY0501	100	STY4144	77	STY0501	99.3	STY4144
AAAAATA +	STY4203	100	STY4202	84	STY3259	33.75	STY4203
ATGGCTT +	STY3204	100			STY3204	99	
ATGAAAC +	STY4112	100	STY0703	65.686	STY4112	99.5	STY0703
	STY4036	99	STY2775	72.816	STY4036	69.19	STY2775
ATGAAAT +	STY3355	100	STY4490	77	STY3355	99.23	STY2911
ATGTTGG +	STY2870	100	STY4280	62.264	STY2870	99.1	STY4897
TTGCTCC -	STY3202	100	STY0747	55.14	STY3202	82.82	STY0747
	STY2337	59.804			STY2337	5.17	
ATGCGCC +	STY4225	100	STY0851	67.647	STY4225	98.5	STY0851
ATGAGGC -	STY4178	100	STY0114	64.078	STY4178	99.1	STY0114
ATGTCCG -	STY4046	100	STY2738	66.981	STY4046	99.3	STY2738
ATGAATA +	STY2859	100	STY1834	82	STY2859	98.6	STY2336
GAAATGG -	STY4608	100	STY1366	90	STY2889	73.26	STY3695
ATGGCAA +	STY3243	100	STY2115	64.762	STY3243	99.9	STY4483
ATGTCAA -	STY0486	100			STY0486	98.4	
	STY0898	60			STY0898	10.87	
ATGCAGC +	STY2340	100	STY2341	75	STY2340	98.6	STY2341
ATGACCA -	STY2401	100	STY1550	60.377	STY2401	98.7	STY0642
ATGTGGT +	STY4385	99	STY2460	61.111	STY4385	97.8	STY2460
ATGACGC +	STY0938	100	STY0924	76	STY0938	99.2	STY0985
ATGCAAA +	STY4744	100	STY4119	78	STY4744	97.7	STY4119
GTGATAA +	STY4817	100	STY0429	62.136	STY4817	98.8	STY2973
ATGAAAG +	STY0927	100	STY2538	62.745	STY0927	98.7	STY3493
GTGCAGT +	STY4724	100			STY4724	99.8	
ATGAATA(-)	STY3428	100	STY3763	56	STY3428	98.7	STY3763
ATGAGCC -	STY3318	100	STY1525	75	STY3318	98.9	STY1525
ATGAGCC +	STY2955	100	STY4720	71	STY2955	97.5	STY1948
ATGGCGA -	STY2964	100			STY2964	98.8	
	STY0385	64	HCM2.001	60.377	STY4386	23.04	HCM2.001
ATGTTTA(-)	STY2970	100	STY2717	59.223	STY2970	98.3	STY2717
ATGTTTA(+)	STY2461	100	STY0532	58.252	STY2461	100	STY0532
ATGCAGC -	STY2322	99	STY1152	51.923	STY2322	98.6	STY1152
ATGTTTA(+)	STY2434	100	STY2894	71	STY2434	98.9	STY2894
ATGAAAC -	STY1897	100	STY3378	68.627	STY1897	98.6	STY3176
ATGCGTA +	STY3247	100	STY0961	64.706	STY3247	92.72	STY0961
ATGCAGA +	STY0758	100	STY2373	68.224	STY0758	99.7	STY2373
ATGAGTA +	STY0831	100			STY0831	99.4	
	STY3213	54.902			STY3213	4.8	
ATGACCG +	STY3503	100			STY3503	99.3	
ATGTCTA(-)	STY4025	100	STY0948	85	STY4025	98.4	STY0948
GTGTTAG +	STY0879	100	STY4339	71.287	STY0879	98.85	STY1083
ATGAAAA +	STY3528	100	STY0231	89	STY3528	99.2	STY0231
ATGTTTA(+)	STY3443	100	STY1450	66.346	STY3443	99.2	STY4000
ATGTCAT(+)	STY3371	100	STY3883	64	STY3371	98.8	STY3883
ATGAAAA -	STY2492	100	STY2160	60.577	STY2492	98.4	STY2160
ATGAATA +	STY0790	100	STY0113	52.941	STY0790	99.8	STY0113
ATGCGAT +	STY3479	100	STY2569	61.321	STY3479	98.4	STY2569
ATGTCGA +	STY3409	100	STY2542	66	STY3409	99	STY2542
ATGTCCG -	STY4153	100	STY1967	81	STY4153	99.5	STY0678

ATGACTG +	STY3229	100	STY3413	60	STY3229	98.4	STY3413
ATGCATC +	STY0774	100	STY3878	50.962	STY0774	62.8	STY3878
ATGTATT(+	STY0822	100	STY0167	78.431	STY0822	98.8	STY0167
ATGATCG +	STY0787	100	STY1921	83	STY0787	98.6	STY1921
ATGTCCC +	STY4066	100	STY0111	57.547	STY4066	100	STY0111
ATGTCGA -	STY2993	100			STY2993	99	
ATGGATT(-	STY1707	100	HCM2.001:	43	STY1707	98.9	HCM2.001:
ATGTTTG(-	STY1953	100			STY1953	99.4	
ATGTTAA(+	STY0613	100	STY2599	60.194	STY0613	98.3	STY2599
ATGAATA(+	STY1731	100			STY1731	99.6	
ATGGCTT -	STY4289	100	STY0138	60.194	STY4289	97.9	STY2317
ATGTCTG -	STY3737	100	STY2527	63.366	STY3737	99.5	STY2527
GTGGATA +	STY3708	100	STY3220	64.078	STY3708	98.09	STY1537
ATGAAAT -	STY3579	100	STY3370	63	STY3579	99.2	STY3370
	STY4617	100	STY3685	90	STY4617	84.51	STY3685
ATGACGA -	STY1475	100	STY1930	61.386	STY1475	98.61	STY4908
ATGACGA -	STY0119	100	STY3110	59.434	STY0119	98.1	STY3110
CTACGCC +	STY1657	100	STY3405	62.376	STY1657	72.46	STY0723
ATGTTCC -	STY1876	99			STY1876	96.6	
ATGAAAA -	STY3003	99	STY4077	49	STY3003	97.7	STY4077
ATGGGTT -	STY2916	100	STY3904	77.67	STY2916	99.4	STY3904
ATGTCAT(-	STY0133	98.851	STY4928	34.483	STY0133	98.9	STY4928
GTGGCAC -	STY4604	95	STY2885	89	STY4604	93.3	STY2885
	STY4345	37.778			STY4345	36.54	
	STY1533	100	STY1222	57.009	STY1533	45.55	STY1222
ATGAACC +	STY3985	100	STY1140	54.545	STY3985	100	STY1140
ATGATTA(-	STY3469	100	STY0077	78	STY3469	99.8	STY0077
ATGAGTA -	STY3472	100	STY3472	70	STY3472	98.3	STY3472
ATGAATC +	STY1036	100	STY1388	62.376	STY1036	99.6	STY1730
	STY2895	64	STY0269	60.377	STY0269	13.86	STY2895
ATGAAGT +	STY0789	99			STY0789	98.6	
	STY1209	64.423	STY3562	52.475	STY1209	17.25	STY3562
	HCM1.177	55	HCM1.178:	49	HCM1.177	14.45	HCM1.178:
GTGACGA +	STY4845	99	STY3883	69	STY4845	93.27	STY3883
	STY1878	73	STY0380	52	STY1878	60	STY0380
	HCM1.109	65.385	STY2356	60.55	STY2356	17.59	STY1436
	STY2077	75	STY2892	50.495	STY2077	72.02	STY2892
	STY0007	100	STY2710	71	STY0007	99	STY2710
	STY2203	100	STY1649	84	STY2203	74.09	STY1002
	STY2307	100	STY3633	79	STY2307	98.8	STY3633
	STY2439	100	STY3925	76	STY2439	99.3	STY3925
	STY2447	100	STY4235	61.111	STY2447	80.99	STY4694
	STY3325	100	STY1000	73.786	STY3325	98.1	STY1000
	STY3394	100	STY3325	73	STY3394	94.5	STY3325
	STY3423	100	STY0973	81	STY3423	98.9	STY0973
	STY3528	100	STY0231	71	STY3528	99.3	STY0231
	STY4023	62.617	STY4420	34	STY4023	25.08	STY4420
ATGTCGT -	STY2061	100	STY2810	58.333	STY2061	100	STY2810

ATGCAGC +	STY2077	100 STY2011	78 STY2077	100 STY2011
ATGGGCC -	STY2356	100 STY2357	49 STY2356	100 STY2294
GTGGCAC -	STY2885	100 STY3699	100 STY2885	100 STY3699
ATGATGC +	STY0115	100 STY0158	59 STY0115	100 STY0158
ATGTTCA +	STY0312	100 STY0314	92 STY0312	100 STY0314
ATGCAAC -	STY3644	100 STY3591	65.049 STY3644	100 STY3591
ATGCCAT +	STY3672	100 HCM2.007	56.731 STY3672	100 HCM2.007
ATGACGC +	STY3688	100 STY4614	87 STY3688	100 STY4614
ATGTATC -	STY3066	100 STY0673	55.34 STY3066	100 STY0673
ATGACAT +	STY0296	100 STY0736	58 STY0296	100 STY0736
ATGAATT +	STY0345	100 STY0443	63 STY0345	100 STY0443
ATGGGAA -	STY3674	100 STY4628	91 STY3674	100 STY4628
ATGAATA +	STY3690	100 STY4612	100 STY3690	100 STY4612
ATGCGCT +	STY3922	100 STY0029	62.136 STY3922	100 STY0029
GTGAAAC +	STY1367	100	STY1367	100
ATGGCAA -	STY1601	100	STY1601	100
ATGGCTT +	STY1618	100 STY0102	59.048 STY1618	100 STY0102
ATGATGA -	STY2883	100 STY3701	100 STY2883	100 STY3701
ATGGATT -	STY3070	100 STY2393	61 STY3070	100 STY1383
ATGAACA +	STY3675	100 STY4627	100 STY4627	100 STY3675
ATGAGCT -	STY4651	100	STY4651	100
ATGGGGA +	STY4676	100 STY4586	63 STY4676	100 STY4586
GTGCACC +	STY4829	100 STY4828	96 STY4829	69.57 STY1226
ATGGTCA +	STY4560	100 STY2604	60.952 STY4560	100 STY2604
ATGAGAT +	STY4577	100 STY1489	60.396 STY4577	100 STY1489
ATGAACA -	STY4883	100 STY0486	62 STY4883	100 STY0486
GTGGCAC -	STY4635	100 STY3668	95 STY4635	100 STY3668
ATGATTA(-	STY4656	100	STY4656	100
ATGACGC +	STY4673	100 STY2605	66 STY4673	100 STY2605

GTGAGCC -	STY4490	100 STY3355	76 STY4490	98.7 STY3355
	STY4821	55 STY4680	52 STY4821	7.76 STY4680
ATGTTTT/ +	STY3904	100 STY1256	69 STY3904	98.5 STY1256
ATGAAGC +	STY3499	100	STY3499	99.2
ATGACGC -	STY3359	100 STY3943	80 STY3359	99.3 STY3943
ATGTACG -	STY3483	100 STY2668	61.386 STY3483	100 STY2668
ATGAACG +	STY0072	100 STY0668	68 STY0072	99.6 STY0668
ATGATCA +	STY0154	100	STY0154	99.6
ATGAAGA -	STY0189	100 STY1670	59.406 STY0189	99.4 STY1670
ATGACTG -	STY0210	100 STY2459	62.5 STY0210	94.18 STY0387
TTGCTGA +	STY0245	100 STY2501	76.238 STY0245	99.2 STY2501
	STY1555	100 STY2424	62.857 STY1555	56.69 STY1520
GTGAGGC +	STY3549	100 STY2694	64.356 STY3549	98.8 STY2928
ATGTTCG +	STY0680	100 STY2651	61.538 STY0680	99.2 STY2651
	STY2911	52.83 STY2258	51 STY2911	7.84 STY2258
ATGCGTA +	STY0725	100 STY2244	62.5 STY0725	99.4 STY2244
ATGAACA +	STY0754	100 STY2475	64.815 STY0754	99.2 STY2475

ATGTTCG -	STY2635	100		STY2635	99.4
ATGAAAT -	STY2311	100	STY2164	60.194	STY2311 98.8
	STY0676	61.386	STY0270	50	STY0676 9.69
ATGACAG +	STY0305	100	STY4157	56	STY0305 98.9
	STY1242	73	STY0723	66	STY0723 18.48
ATGCAGC -	STY2897	99	STY1117	60.784	STY2897 95.4
	STY1682	68.317		STY1682	44.84
ATGGAAA +	STY0294	100	STY2849	73.267	STY0294 98.09
	STY2954	65	STY2485	63.366	STY2954 21.49
ATGAAAT +	STY0368	100		STY0368	97.7
ATGCCAA -	STY1117	100	STY2897	61	STY1117 98.5
ATGTATC +	STY4386	100	STY4610	60.784	STY4386 97.7
ATGCAAG +	STY4332	100	STY2837	60.952	STY4332 98.3
ATGACTG -	STY1103	100	STY2617	61	STY1103 99.1
ATGACAA +	STY1561	100	STY3539	62.857	STY1561 99.3
ATGAAAG +	STY4343	100	STY2513	62.857	STY4343 99.3
ATGGCTT +	STY4304	100	STY1334	65.138	STY4304 99
ATGGAAA +	STY1278	100	STY3342	63.208	STY1278 99.4
ATGATTG -	STY1839	100	STY3539	62.376	STY1839 97.7
ATGGAAG +	STY4341	100	STY0101	77.228	STY4341 99.2
GTGGGC +	STY1249	100	STY3998	60.396	STY1249 99
ATGATGG -	STY1871	100	STY3342	88	STY1871 98.9
	STY3188	65.094	STY0354	62.136	STY2762 51.25
ATGCAAA +	STY3828	100	STY3495	62	STY3828 96.1
	STY1630	82		STY1630	30
ATGATGA -	STY3794	100	STY3895	63	STY3794 99.6
	STY3951	62.037		STY3951	11.55
ATGCCTG -	STY2982	100	STY2875	58	STY2982 99.1
ATGACAA -	STY3043	100	STY3430	63	STY3043 55.62
ATGCCAA -	STY2608	100	HCM1.190	61.165	STY2608 98
ATGCCGC -	STY2651	100	STY2744	70	STY2651 98.8
ATGTCTG -	STY2723	100	STY2373	60.396	STY2723 97.5
ATGAATA -	STY0955	100	STY2678	67.961	STY0955 98.6
	STY2469	95	STY3691	75	STY2469 24.41
ATGAAGC +	STY3788	100		STY3788	99.8
ATGAAAA +	STY4421	100	STY3402	61.538	STY4421 99.1
ATGACAA -	STY3038	100	STY4284	69	STY3038 98.6
	STY3065	86	STY0752	78	STY3065 73.08
TTGGGAT +	STY0914	100		STY0914	83.12
	STY2723	61.386	STY4928	59.223	STY1036 24.34
	STY0380	67.647	STY2940	62.5	STY0380 21.36
ATGTCTG -	STY2770	100	STY1551	51.485	STY2770 98.5
ATGGTAA +	STY1759	100	STY1768	60.952	STY1759 99.6
GTAAAA +	STY2145	100	STY3460	64	STY2145 99.2
TTGAGTA -	STY2202	100	STY2949	62.745	STY2202 97.33
	STY2973	56.075		STY2973	19.56
	STY0176	63.462	STY4289	62.745	STY3075 5.26
ATGAATA -	STY4873	100	STY3448	64.423	STY4873 98.6
ATGAATT -	STY4857	100	STY4648	90	STY4857 99.6
ATGAGCT -	STY2597	100		STY2597	98.8
ATGTTAC +	STY1268	100	STY1964	52.941	STY1268 98.1

ATGGCTC -	STY1775	100	STY0305	63.107	STY1775	100	STY0305
ATGGGTT +	STY2670	100	STY0723	72	STY2670	100	STY0723
ATGACGA +	STY1840	100	STY1956	78.431	STY1840	98.6	STY3519
ATGAAAAI -	STY1099	100	STY3307	54.369	STY1099	99.2	STY3307
ATGAGAA -	STY2987	100	STY1942	61.682	STY2987	99.1	STY1942
ATGAGTC +	STY2494	100	STY4182	62.264	STY2494	99.3	STY2550
GTGAGTC -	STY2154	100	STY0985	55.769	STY2154	98.2	STY0985
ATGCTGG -	STY2490	100	STY0826	61.765	STY2490	97.7	STY0826
ATGAGCC -	STY1797	100	STY4048	65.686	STY1797	99.4	STY4048
	STY2369	52.427			STY2369	6.21	
	STY1672	100	STY2672	60.396	STY1672	76.54	STY2672
ATGGCAA +	STY1587	100	STY4229	77.228	STY1587	98.1	STY4229
ATGAAAA +	STY4428	100	STY0838	64	STY4428	99.1	STY0838
ATGCGCA +	STY3952	100	STY3954	46	STY3952	97.7	STY3954
ATGCCGC +	STY3975	100	STY0541	64.762	STY3975	99.2	STY2746
ATGGCAA +	STY0239	100	STY3788	67.647	STY0239	99.9	STY3788
ATGACAG -	STY0404	100	STY3540	55.34	STY0404	99.4	STY3540
ATGATCA +	STY0152	100			STY0152	99.6	
ATGGATT -	STY2557	100	STY2969	73.077	STY2557	99.2	STY2969
ATGGGAC +	STY1329	100	STY3971	64.815	STY1329	98	STY3971
ATGAAAT +	STY3941	100	STY1140	64.151	STY3941	98.31	STY1140
ATGAATT +	STY1728	100	STY3951	63	STY1728	98.2	STY3951
	STY1649	100	STY2203	88	STY2493	67.4	STY1649
ATGCTGA +	STY0592	100	STY0025	78	STY0592	98.7	STY0025
ATGGCGA -	STY3934	100	STY4784	66.99	STY3934	99.5	STY2944
ATGTACA +	STY0387	100	STY3519	69	STY0387	99.4	STY3519
ATGGATC -	STY2837	100	STY0270	62.963	STY2837	96.85	STY4332
ATGCAAA +	STY3393	100			STY3393	97.84	
ATGTTGA +	STY4279	100	STY1904	63	STY4279	98.8	STY3813
	STY2295	61.538	STY4076	60.784	STY2629	49.82	STY0282
	STY0405	65.347	HCM1.247	63.208	HCM1.247	15.11	STY4459
	STY3325	29			STY3325	8.27	
ATGAATC +	STY0637	100	STY2523	63.889	STY0637	99.1	STY2409
ATGACTG -	STY4737	100	STY1403	62.617	STY4737	98.4	STY4280
ATGGAGT -	STY4816	100	STY2782	70.642	STY4816	98.5	STY2782
ATGACCA +	STY2843	100	STY2613	52	STY2843	99.1	STY2613
ATGGCTC -	STY3381	100	HCM2.001	62.857	STY3381	98.7	HCM2.001
ATGAGTA -	STY3426	100	STY3109	74.257	STY3426	98.9	STY3167
ATGAATA -	STY3431	100	STY2519	66	STY3431	99.4	STY2519
ATGAACG -	STY2519	100	STY1140	72.277	STY2519	99.8	STY1140
ATGTCAT -	STY2737	100	STY0920	90	STY2737	98.8	STY3250
ATGCAAA +	STY0530	100	STY3355	64.706	STY0530	98.7	STY3355
ATGAGTG -	STY0515	100	STY0249	61	STY0515	99.1	STY0249
	STY0619	64.486	STY2477	61.386	STY2477	15.31	STY3962
ATGTCCG +	STY3874	100	STY3523	61.765	STY3874	99.1	STY3523
ATGATCT -	STY0883	100	STY2095	66.337	STY0883	99.1	STY0968
ATGAACT +	STY0781	100	STY2768	60.577	STY0781	98.5	STY2768
ATGGCAA +	STY3875	100	STY2911	63.107	STY3875	99.6	STY2911
ATGAAAA -	STY2584	100	STY2585	83	STY2584	99.5	STY2585
GTGAAAC +	STY0138	100	STY3355	66.019	STY0138	99.5	STY4100
ATGGCAA -	STY0732	100	STY3201	64.078	STY0732	99.2	STY3201

ATGATGA +	STY0778	100	STY4702	73	STY0778	98.9	STY4702
GTGATTG +	STY0251	100	STY3351	60.784	STY0251	99.6	STY0249
GTGTTTA -	STY2861	100	STY4883	61.682	STY2861	99.2	STY4883
ATGGCTA +	STY4718	100			STY4718	99.4	
ATGACCC -	STY1902	100			STY1902	99	
ATGAATA +	STY2741	100	STY1294	59.434	STY2741	99.1	STY1294
ATGTTCA -	STY0885	100	STY1809	58.182	STY0885	98.2	STY1809
ATGATTA -	STY3809	100	STY1085	70.297	STY3809	99.2	STY1085
ATGTCAA +	STY0709	100	STY0708	69	STY0709	98.9	STY2160
ATGTCTG -	STY4398	100	STY0079	62	STY4398	98.9	STY0079
ATGGCTA +	STY1464	100	STY0502	49	STY1464	98.7	STY0502
GTGATGA -	STY1013	98	STY2769	57.143	STY1013	92.9	STY2769
ATGAACG +	STY2253	100	STY0577	75.728	STY2253	97.2	STY0577
ATGTTCCG -	STY4485	100	STY2561	59.615	STY4485	98.8	STY2561
ATGAGTA +	STY2157	100	STY4225	67	STY2157	100	STY4137
	STY4458	100	STY4459	63	STY4458	98.6	STY4459
GTGCTGC -	STY3537	100	STY1551	64	STY3537	90.35	STY3162
ATGAACG -	STY0010	100	STY2481	62.857	STY0010	99.3	STY2481
ATGGTGA +	STY0003	100	STY0734	63.551	STY0003	99.5	HCM2.011
ATGGATA -	STY1779a	100	STY1011	61.386	STY1779a	99	STY4057
ATGACAG -	STY2078	98	STY1728	48.077	STY2078	94.19	STY1728
ATGGTAC +	STY3447	100	STY4193	66.364	STY3447	49.94	STY4193
ATGAAAA +	STY2712	100	STY2439	62.264	STY2712	100	STY2439
ATGAGTG -	STY2421	100	STY3895	59.804	STY2421	98.7	STY3895
ATGACCC +	STY0619	100	STY4095	66.337	STY0619	97.6	STY4095
ATGGCGC +	STY0218	100	STY0396	85	STY0218	98.6	STY0396
	STY4459	100	STY4458	67	STY4459	81.07	STY4458
ATGCACG -	STY2555	100	STY3422	63.208	STY2555	99.6	STY4923
ATGAAAA +	STY3150	100	STY3123	67	STY3150	98.2	STY1480
ATGGACA -	STY3575	100			STY3575	98.7	
ATGACCT +	STY3599	100	STY1851	62.745	STY3599	98.9	STY4479
ATGATGC +	STY3624	100	STY2374	62.5	STY3624	98.7	STY2374
ATGGCTA -	STY3735	100	STY4690	55.046	STY3735	99.6	STY4690
ATGAGTT -	STY3634	100	STY0538	63.208	STY3634	98.7	STY0538
ATGACCC -	STY3742	100	STY0922	60	STY3742	99.1	STY0922
ATGACCA +	STY2180	100	STY1705	66.337	STY2180	98.2	STY1705
ATGTTCC. +	STY2667	100	STY2123	64	STY2667	100	STY2442
ATGGCTG +	STY0121	100			STY0121	98.8	
ATGTCCA -	STY3081	100	HCM2.001:	53	STY3081	99.5	HCM2.001:
ATGGCCG +	STY3786	100	STY0425	62.5	STY3786	98.4	STY0544
ATGATTA +	STY2285	100	STY2752	61.765	STY2285	98.9	STY2752
ATGTCGC -	STY3629	100	STY3421	66.019	STY3629	98.6	STY3421
ATGGATC -	STY3719	100	STY0157	66	STY3719	95.5	STY4638
ATGGCGA +	STY0412	100	STY1535	67.29	STY0412	99.5	STY2044
GTGAGCA -	STY2130	100	STY4502	63.725	STY2130	99.5	STY0786
ATGATAC +	STY1924	100	STY4200	78	STY1924	98.3	STY4200
TTGCGTC +	STY1440	100			STY1440	81.43	
ATGAACC +	STY1406	100	STY4013	53.465	STY1406	98.9	STY4545
ATGAAAA +	STY0920	100	STY0923	76	STY0920	99.9	STY0923
ATGATGC -	STY0668	100	STY0072	68	STY0668	99	STY0072

ATGCTTT -	STY0992	100	STY2696	62.376	STY0992	99.1	STY2696
ATGAAAA +	STY4020	100	STY4875	89	STY4020	98.7	STY4875
ATGAACC -	STY0646	100	STY3759	67.961	STY0646	98.7	STY3759
ATGAGCC +	STY1331	100	STY2459	61	STY1331	99.8	STY2459
CTGATGG +	STY1492	100	STY3839	93	STY3839	75.5	STY1492
GTGACGC -	STY1951	100	STY2553	62.136	STY1951	98.9	STY3343
ATGCACA +	STY1980	100	STY1349	68.519	STY1980	98.9	STY1349
	STY2073	79	STY2346	63.107	STY2073	36.35	STY2346
ATGAAAA +	STY2105	100	STY1681	52	STY2105	98.3	STY1681
ATGCAAC +	STY0526	100	STY0544	65.347	STY0526	98.7	STY1373
ATGTTCC +	STY0572	100	STY2973	59.615	STY0572	98.6	STY2973
ATGGTTA +	STY0605	100	STY4838	62.857	STY0605	97.29	STY4838
ATGAGTT -	STY1490	100	STY0717	59.406	STY1490	98.8	STY0717
ATGCCGC -	STY2523	97	STY2518	96	STY2523	94.43	STY2518
ATGCCCC +	STY2891	100	STY1309	79	STY2891	98.1	STY4172
ATGTCTG +	STY4144	100	STY3480	64.078	STY4144	90	STY3593
	STY0793	100	STY0492	67.961	STY0793	67.9	STY3467
	STY4281	62.5			STY4281	25.39	
ATGAATG -	STY3352	100	STY2506	59.406	STY3352	97.96	STY2506
ATGTCAT -	STY3157	100	STY2649	64.423	STY3157	99.2	STY2590
ATGAGCA -	STY3238	100	STY3992	61.321	STY3238	99.1	STY3992
	STY0477	65	STY0476	63	STY0480	18.92	STY0477
ATGAACC -	STY2965	100	STY4132	72	STY2965	98.7	STY4132
ATGATTC -	STY4159	100	STY0719	87	STY4159	99.3	STY3510
ATGGATA +	STY4015	100	STY2752	63.208	STY4015	99.1	STY0536
GTGAATC -	STY3136	100			STY3136	97.8	
ATGGTTA -	STY3178	100	STY4459	87	STY3178	94.12	STY4459
GTGGTAA +	STY3272	100	STY2409	73.077	STY3272	98.9	STY2409
ATGTCTG -	STY3316	100	STY3033	68	STY3316	99	STY3033
ATGACAG -	STY4626	100	STY3676	94	STY4626	96.5	STY3676
ATGATTG -	STY2393	100	STY1573	77	STY2393	99.5	STY1573
ATGGCGC -	STY1949	100	STY1545	52.83	STY1949	99.1	STY1545
ATGGCGA +	STY4370	100	STY0639	63.366	STY4370	100	STY0639
ATGAAAG -	STY4261	100			STY4261	98.4	
ATGGCGA -	STY3474	100	STY3766	61.321	STY3474	98.7	STY3766
ATGCGTG -	STY3387	100	STY0237	66.337	STY3387	98.3	STY1376
ATGAACA -	STY4263	100	STY1741	78	STY4263	97.1	STY1741
ATGTTTA -	STY3489	100	STY1000	59.048	STY3489	99.4	STY1000
ATGAAAT +	STY4862	100	STY0996	64.762	STY4862	99	STY0996
ATGGCTC -	STY4682	100	STY2943	62.136	STY4682	98.5	STY2469
ATGTTAT +	STY0406	100			STY0406	99	
ATGAAAG +	STY2372	100	STY2553	59.223	STY2372	98.9	STY2553
ATGGTTT +	STY2957	100	STY2546	60	STY2957	99.2	STY2546
ATGACTC +	STY2384	100	STY0585	68	STY2384	95.02	STY0585
GTGACCA -	STY2458	100	STY3936	75	STY2458	99.2	STY3936
GCAGCTT -	STY2469	100	STY2470	100	STY2469	51.73	STY2470
ATGCTGA -	STY2398	100	HCM1.270	54	STY2398	99.1	HCM1.270
ATGACAA +	STY0280	100	STY1765	62.136	STY0280	98.87	STY0644
ATGTTTG -	STY1713	99			STY1713	96.9	
ATGGTAA +	STY0776	100	STY4682	62.037	STY0776	99.1	STY4682
ATGAGCC +	STY0845	100	STY1378	47	STY0845	42.06	STY0647

ATGCCCG +	STY2865	100	STY0554	63.107	STY2865	91	STY0554
ATGCTGA +	STY3454	100	STY3131	65.741	STY3454	87.08	STY3131
ATGCTTA +	STY3407	100	STY3109	60.952	STY3407	99.2	STY3109
ATGCGAT +	STY0890	100	STY4170	74	STY0890	98.7	STY4170
ATGTGGA +	STY1736	100	STY0660	67.961	STY1736	99.2	STY4477
ATGGGAC +	STY3413	100	STY4768	66.355	STY3413	98.9	STY1958
ATGCTTC +	STY3328	100	STY3836	58.716	STY3328	98.3	STY3836
ATGAACA +	STY3201	100	STY0732	65	STY3201	89.61	STY0732
ATGAATT +	STY0801	100	STY2857	81.188	STY0801	99.1	STY1763
ATGTCCA +	STY1222	100	STY2810	64.151	STY1222	99.4	STY2810
ATGATGC -	STY2124	100			STY2124	99.5	
ATGAGCC +	STY3298	100	STY1467	70	STY3298	99.2	STY1467
ATGGCGA +	STY1149	100	STY0064	88	STY1149	98.9	STY2595
ATGCAAC +	STY0795	100	STY4235	63.81	STY0795	99.4	STY4235
ATGGCGC +	STY0829	100	STY0289	60.194	STY0829	98.4	STY2948
ATGATCT +	STY0643	100	STY1757	72	STY0643	98.1	STY1757
ATGGGAC -	STY2783	100			STY2783	100	
ATGGCGA +	STY2719	100	STY0519	88	STY2719	98.9	STY3570
ATGCTGA -	STY2947	100	STY4366	33	STY2947	100	STY4366
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	STY1591	63.208	STY1787	61	STY1591	57.62	STY1670
ATGGCAC -	STY4051	100	STY4713	61.765	STY4051	100	STY4713
ATGAAAG -	STY4110	100			STY4110	97.63	
ATGGCGT -	STY4448	100			STY4448	96.2	
	STY1631	75	STY4180	63.81	STY1631	64.78	STY4180
ATGAATG -	STY2367	99	STY3980	59.434	STY2367	92.35	HCM1.262
	STY3664	93	STY4640	92	STY3664	84.8	STY4640
ATGTATA +	STY4179	100			STY4179	100	
ATGGCTA +	STY0297	100			STY0297	99.4	
	STY3153	67	STY0640	66.337	STY0640	14.65	STY3153
ATGGATG +	STY0611	100	STY0697	72.727	STY0611	97.95	STY0823
	STY4820	61.468	STY2590	48.515	STY4820	21.93	STY2590
ATGACAA +	STY1497	100	STY4807	63.366	STY1497	99.5	STY4807
TTGCAGC +	STY0053	100			STY0053	100	
	STY2954	63.107	STY3986	53.465	STY2954	7.36	STY3986
ATGAAAA +	STY3958	100			STY3958	99	
	STY4871	84	STY2297	61.165	STY2058	34.2	STY4871
ATGGCTT -	STY2788	100	HCM1.153	59	STY2788	99.5	HCM1.153
GTGCTCG +	STY3449	100	STY0107	62.857	STY3449	99.3	STY0355
	STY1738	62.136	STY4256	61.905	STY1738	35.25	STY1181
GTGAAAA +	STY0908	100	STY4925	64.762	STY0908	99.4	STY1959
ATGGAAA -	STY0940	100	STY2204	71	STY0940	100	STY2204
ATGAGCA -	STY1012	100	STY4664	56.731	STY1012	100	STY4664
ATGCGCA +	STY0839	100	STY1270	63.551	STY0839	98.8	STY1270
	STY0862	51			STY0862	22.96	
	STY0717	62.136	STY4587	61.765	STY0717	14.78	STY4587
	STY4308	65.741	STY0376	63.208	STY4308	11.91	STY0376
	STY4771	60	STY0875	59.406	STY4771	28.13	STY0875
	STY3175	67.327	STY0335	62.5	STY3175	26.58	STY0592
	STY3743	58.824	STY0958	56.731	STY0958	39.02	STY3743

	STY2159	100	STY0924	70	STY2159	98.3	STY0924
	STY0070	100	STY0670	78	STY0070	96.8	STY0670
	STY0231	100	STY3528	70	STY0231	99.7	STY3528
	STY0494	54.902	STY3715	53.704	STY3715	17.79	STY0494
	STY0979	100	STY3237	72	STY0979	98.1	STY3237
	STY0336	55			STY0336	6.26	
	STY3052	61.765	STY0724	60.194	STY0490	12.9	STY4276
	STY0659	34			STY0659	22.23	
ATGAAAA -	STY3343	100	STY1951	60.185	STY3343	100	STY1951
ATGTTTG +	STY3662	100	STY4642	88	STY3662	100	STY4642
TTGGAAC +	STY2629	100	STY4838	64.815	STY2629	100	STY4838
ATGGTCA -	STY3844	100			STY3844	100	
ATGCCGC -	STY1359	100	STY1028	90	STY1359	100	STY1028
ATGAACC -	STY1597	100	STY3473	91	STY1597	100	STY3473
ATGGCAC -	STY2167	100	STY1911	62.963	STY2167	100	STY1911
ATGACAT -	STY2358	100	STY1648	87	STY2358	100	STY1648
	STY2887	100	STY3697	100	STY2887	100	STY3697
GTGACGC -	STY4039	100	STY0919	71.287	STY4039	100	STY0919
ATGAGCC -	STY1591	100	STY0954	64	STY1591	100	STY2672
ATGAAAA +	STY1608	100	STY3896	59.459	STY1608	100	STY3896
GTGTGCA -	STY2362	100	STY0523	53.535	STY2362	100	STY0523
ATGGAGC -	STY2880	100	STY2879	32	STY2880	100	STY2879
TTGATAA -	STY3068	100			STY3068	100	
ATGCAGA +	STY0301	100	STY0084	55	STY0301	100	STY0084
GTGAGTC +	STY0347	100	STY1757	62.136	STY0347	100	STY1757
ATGAGCA -	STY1015	100	STY2764	61.165	STY1015	100	STY2764
ATGATGA -	STY3763	100	STY3762	74	STY3763	100	STY4443
ATGAAAG -	STY4107	100	STY0367	60.185	STY4107	100	STY0367
	STY4338	100	STY1658	60	STY4338	100	STY0710
ATGCGTC +	STY4530	100	STY1816	73	STY4530	100	STY1816
TTGTTCT(+	STY4564	100	STY2992	57	STY4564	100	STY2992
ATGTGTA -	STY4582	100	STY4838	60	STY4582	100	STY4838
ATGCCGC +	STY4706	100			STY4706	100	
ATGGCAG +	STY4586	100	STY4676	63	STY4586	100	STY4676
ATGAGAT +	STY4162	100	STY4786	68	STY4162	100	STY4786
GTGAATG -	STY4415	100	STY3368	65.094	STY4415	100	STY3368
ATGGGCT +	STY4540	100	STY4541a	73	STY4540	100	STY1816
ATGACCA +	STY4755	100	STY4756	69	STY4755	100	STY4756

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