TableS1 The top 1000 features in the optimal feature set of the lncLocPredtp8 according to F-score order

Order	Feature	F-score	kmer	Order	Feature	F-score	kmer	Order	Feature	F-score	kmer
2	8mer	0.10931	TCCCAAAG	351	8mer	0.04596		701	8mer	0.037312	GCCTATGG
3	8mer 8mer	0.107445 0.106471	GCGGGGCG AACGGCCC	352 353	8mer 8mer	0.04584 0.04582	CCCTGGGC	702 703	8mer 8mer	0.03727	AATACCGG
4	8mer		CGGTGACG	354	8mer	0.04581	ATCTTAAT	704	8mer	0.037257	CGGCCTAT
5	8mer	0.098194	CGGGTCAC	355	8mer	0.04574	CCGCGAAC	705	8mer	0.037252	GCTGCGCA
6	8mer	0.095685	TCACGGGA	356	8mer	0.0456		706	8mer	0.037222	CCCGGCAC
8	8mer	0.09567 0.09254	TGCGGTTC	357	8mer	0.04557 0.04555	CGACCTCC	707 708	8mer		ACCCGAGG
9	8mer 8mer		GGGGGACC CCACGACC	358 359	8mer 8mer	0.04555		708	8mer 8mer	0.037189 0.037161	AAGCGAAA GAATCGCT
10	8mer		CGCCCCGG	360	8mer		GCGCCAAT	710	8mer		GCGCCCGG
11	8mer	0.09051	TCAACGTC	361	Triplet	0.04548	Triplet	711	8mer	0.037131	ACCCGGCC
12	8mer	0.088855	CGAAGTCG	362	8mer	0.04545		712	8mer	0.037086	ATTAGGGA
13	8mer		CGGGGGAC	363	8mer	0.04545	GGCTGATG	713	8mer	0.037082	CCGCTTAG
14 15	8mer 8mer	0.08771	ATGGGGCG TCGGCCCC	364 365	8mer 8mer	0.0454 0.04529		714 715	8mer 8mer	0.037036	GGCATTCG GGCATTCC
16	8mer		AGCGGAGC	366	8mer	0.04526	TGTTTACG	716	8mer	0.036989	TAAAATGG
17	8mer	0.087322	AATCGACG	367	8mer	0.04524		717	8mer	0.036988	TCCTTTCC
18	8mer		GCTCACGG	368	8mer	0.04523		718	8mer	0.036971	CCTCCCAA
19 20	8mer 8mer	0.084716 0.084641	GTAGGGCG CGCAGTTC	369 370	8mer 8mer	0.04521 0.04521	CCGAAGTC	719 720	8mer 8mer	0.036962	CGGAATAT
21	8mer		CCGCAGTT	371	8mer	0.04521	CGCGTACATT	721	8mer	0.036937	CGCCAATC
22	8mer	0.082921	GCGGAGCC	372	8mer	0.04518	CCATCGGT	722	8mer	0.036924	TGACCTTA
23	8mer	0.081369	CATCGGCT	373	8mer	0.04515		723	8mer	0.036905	GCGAAATT
24	8mer	0.079854	AGTAGGAC	374	8mer		CCGGACTT	724	8mer	0.036883	CTTCAAGC
25 26	8mer 8mer	0.079681	CCCAAAGT	375 376	8mer 8mer	0.04512 0.04507	ATGTCGGC CTAGCGGA	725 726	8mer 8mer	0.036856	AGGCTGGT GCGCGCGG
27	8mer	0.078261	GGGATGCG	377	8mer	0.04506	TCGACGAA	727	8mer	0.036785	GTGCCGAA
28	8mer	0.077741	GATCCCGA	378	8mer	0.04506	GGGCGCGG	728	8mer	0.036765	TTTCCCGA
29	8mer	0.077287	GCGTGAGC	379	8mer	0.04499	CCCCTTAT	729	8mer	0.036755	GAATCCGG
30	8mer	0.077177	CGGGGGGG	380	8mer	0.04495	GGCAGAAA	730	8mer	0.036745	CCGACTTT
31 32	8mer 8mer	0.077057	GCGGGGGA AGACGGCG	381 382	8mer 8mer	0.04493 0.04492	GTTGCTAT	731 732	8mer 8mer	0.036719	GTAGTGGG CAAAAAAA
33	8mer		CTTGTATC	383	8mer	0.04491	ACCGTGCC	733	8mer	0.036676	GCGACATC
34	8mer	0.07546	CTTAAACC	384	8mer	0.04484		734	8mer	0.036655	ACGGGTTC
35	8mer		GAGCCCGA	385	8mer		CGTGTTAC	735	8mer	0.036648	
36	8mer		CGTAGCTT	386	8mer	0.0448		736	8mer	0.036629	TGTACGTT
37 38	8mer 8mer	0.074414 0.073205	CCCCCGAA GGCGAGGT	387 388	8mer SC-PseDNC	0.04471	CTTTCGTC SC-PseDNC	737 738	8mer 8mer	0.036619	GTCGACCC GCGCCACT
39	8mer		CCGCACCG	389	8mer	0.04457	GGGGCGCG	739	8mer	0.036604	CTGGTATA
40	8mer		CGCAGCGT	390	8mer	0.0445		740	8mer	0.036599	CGTCAAGG
41	8mer	0.072567	CATCGCGG	391	8mer	0.04444	GGGGATAT	741	8mer	0.036577	GACTGCGA
42	8mer	0.072132	TGGGCCCG	392	8mer		TTTGTCTC	742	8mer	0.036576	CAGTAGGA
43 44	8mer 8mer		CCCGTTTC GTGCGTGA	393 394	8mer 8mer	0.0444	AGATTGCG CGAGAATC	743 744	8mer 8mer		CGGCCCAC GAAGTCGG
45	8mer		GGATGCGG	395	8mer	0.04432	CAGTTCGG	745	8mer	0.036528	ATGCACGC
46	8mer		AAGGGGCG	396	8mer	0.04423	ATCGACGA	746	8mer	0.036518	
47	8mer		CCGAAGGC	397	8mer	0.04422	CACGGCAA	747	8mer	0.036479	TTCGGGGG
48	8mer	0.069523	CCTGTGTT	398	8mer	0.04419	ACCCCCGA	748	8mer	0.036471	CGGGTGGC
49 50	8mer 8mer		GTGGAAGA ATCCCGAA	399 400	8mer 8mer	0.04418 0.04415	CGAGAGCT GCGACTCG	749 750	8mer 8mer	0.036463	TCGGCTGT
51	8mer	0.068761	CTTGAACC	401	8mer	0.04413	CCGCTGGT	751	8mer	0.03639	CTATGTTG
52	8mer		ACGAGCCC	402	8mer	0.04408		752	8mer	0.036376	ACGCTCAT
53	8mer	0.068213	AGACCCTC	403	8mer	0.04407	GAGCCCCG	753	8mer	0.036373	GCGTTCTC
54	8mer		ACGTGCGG	404	8mer	0.04403	CCAAAGTG	754	8mer	0.03628	GACGGCCT
55 56	8mer 8mer		GTGCGACT GACCATCG	405 406	8mer 8mer	0.04392	CCGCAGCG	755 756	8mer 8mer	0.036274	GAGGTCAT ACGGCCTG
57	8mer		ACGAATCA	407	8mer		GCCGCCGC	757	8mer	0.036192	
58	8mer	0.067781	TCGTCGAC	408	8mer	0.04387	GCCCCTGA	758	8mer	0.03619	CTACAGTA
59	8mer		TAACCGCC	409	8mer	0.04382		759	8mer	0.036189	TATAAGGT
60 61	8mer 8mer		GTCGACCG CGAGTCGG	410 411	8mer 8mer	0.04381	GGAGGGCG GGGGGTCG	760 761	8mer 8mer	0.036163	CGACTTTG TGAGCCGA
62	8mer		TATGCGGG	411	8mer		GCCGGACT	762	8mer	0.036133	
63	8mer	0.067781	ATGCGGGG	413	8mer	0.04379	GCGCCGGA	763	8mer	0.036137	CTAAACCG
64	8mer		AGCCACCG	414	8mer		GCAACGTC	764	8mer	0.036098	CTTGCGTC
65 66	8mer 8mer		GCGTGCTC TCCGGGCG	415 416	8mer		ACCTAGAC TTTTTGTA	765 766	8mer	0.036073	
66 67	8mer		GGAATCCG	416	8mer 8mer		AGATACTA	767	8mer 8mer		GAGCGACG GTCCAGAC
68	8mer		TGACGAGC	418	8mer	0.04373		768	8mer		CGGGGGCC
69	8mer	0.067076	CGCACAGT	419	8mer	0.04371	GGAACCTA	769	8mer	0.036041	ACGCCCGA
70	8mer		GCGCGTCC	420	8mer		AAGGTGCC	770	8mer		GGCGCCCG
71 72	8mer 8mer		TCCGCCGG GGCCCGTG	421 422	8mer 8mer		TATTAGGG CCCGAACT	771 772	8mer 8mer	0.036022	TCCTGGGC
73	8mer		GCGGATCT	423	8mer		TTGTACGG	773	8mer	0.036004	
74	8mer		GGGCCCCT	424	8mer		CCGTGTCC	774	8mer	0.03599	
75	8mer	0.06628	CCTGGGCC	425	8mer	0.04352	CGCCTATA	775	8mer		GGTGGCGC
76	8mer		GACGAATC	426	8mer		TATGTCCCA	776	8mer	0.035958	CCACTTCT
77 78	8mer 8mer		AACGTCGG TTATGCGG	427 428	8mer 8mer		TACTGCCA TATAGCAC	777 778	8mer 8mer	0.035936	CGAGTTCT
79	8mer		CGACGAAT	429	8mer	0.04347		779	8mer	0.035852	
80	8mer	0.065703	GCGGTAAC	430	8mer	0.04346	TTTGGCCA	780	8mer	0.035833	ACCTCGAC
81	8mer		CCTGGGCG	431	8mer	0.04342		781	8mer		CGAACAGA
82 83	8mer 8mer		TEGTATEC	432 433	8mer		GGTTGTTC GAGCGGGG	782 783	8mer	0.035756	
83	8mer		TGGTCTCG CCACTGCA	433	8mer 8mer	0.04334		783	8mer 8mer	0.035747	CTCCTGTG GGCTCACG
85	8mer		CGACAGGA	435	8mer		GTGTCGTA	785	8mer		GACCTGGG
86	8mer	0.065247	CATGACAC	436	8mer	0.0433	CTGCGAGT	786	8mer	0.035735	GAACTCGT
87	8mer		ATCCGCCG	437	8mer		CGGCCCCT	787	8mer		ACTGCACG
88 89	8mer		TGTCGGTA CTCATTGC	438	8mer		GCAGTTCG	788	8mer		GAGGGCCG
89	8mer	U.U04394	CICATIBL	439	8mer	U.U432b	TCCTGTGT	789	8mer	0.03568	ACCATTAA

90	8mer	0.06426	GTAACCGC	440	8mer	0.04325	GGGCGGTG	790	8mer	0.035668 CAAGCGAA
91		0.064055		441						
	8mer				8mer	0.04325	CCGTTTCC	791	8mer	0.035666 GCGGCCAA
92	8mer	0.063797		442	8mer	0.0432	TCGTCGAA	792	8mer	0.035652 GCCATCTA
93	8mer	0.063633	TGCGCCGT	443	8mer	0.04319	TTGCGCCA	793	8mer	0.035597 GTCTAGGC
94	8mer	0.063586	GCACCGAA	444	8mer	0.04314	AGCATTGC	794	8mer	0.035581 ATCATTAT
95	8mer		AGGAGGGC	445	8mer		ACGCGTAC	795	8mer	0.035577 TGGGCCCC
96	8mer	0.063183		446	8mer		CTTCCGCG	796	8mer	0.035562 TAACCGCG
97	8mer	0.063161		447	8mer		GGGGCGGT	797	8mer	0.035558 GGCTGGGA
98	8mer	0.063124	CCCCAGCG	448	8mer	0.04309	ACCCGCAC	798	8mer	0.035557 GTAAACAT
99	8mer	0.062931	ATACCGCC	449	8mer	0.04305	GAGCCCGG	799	8mer	0.035551 CGTCCAGG
100	8mer	0.062913	TCCAGGCG	450	8mer	0.04305	ATCCCGAC	800	8mer	0.035506 CGGACTAG
101	8mer	0.062893		451	8mer	0.04304	GAACGAAT	801	8mer	0.035482 GGACCTAG
102	8mer	0.062656		452	8mer		CAGTACGT	802	8mer	0.035439 TAGTGTCC
103	8mer	0.06263		453	8mer	0.04296	CTTAAGTA	803	8mer	0.035432 CACTACAG
104	8mer	0.062472	GAAACCCG	454	8mer	0.04296	GAGATACT	804	8mer	0.035424 CGCTTCTT
105	8mer	0.062448	TTGCCGGT	455	8mer	0.04295	CGTCGTCT	805	8mer	0.035384 TCCCAACG
106	8mer	0.06233	TCAAGCAC	456	8mer	0.0429	GACGCGTA	806	8mer	0.035383 CCGGGGTG
107	8mer		CCAAGATC	457	8mer	0.04287	GCACTCCA	807	8mer	0.035364 CGGCGCGC
								808		
108	8mer	0.062211		458	8mer		CGCGCGGC		8mer	0.03536 TGGGATTA
109	8mer	0.061952		459	8mer	0.04285	TGCTTTTT	809	8mer	0.035351 AGCCGGGG
110	8mer	0.06195	GATGCGGA	460	8mer	0.04278	CCGGACTA	810	8mer	0.035334 TTCACTAG
111	8mer	0.061771	GGCCCCTG	461	8mer	0.04275	ATTGCGCC	811	8mer	0.03528 CCCTTCGA
112	8mer	0.061704	CGGGGCGA	462	8mer	0.04274	CGAGGTCT	812	8mer	0.03522 CTGCGCCT
113	8mer	0.061609		463	8mer		CAGGCCAC	813	8mer	0.03518 CTCGGCTG
114	8mer	0.061468		464	8mer		GATCCGGG	814	8mer	
115	8mer		CGATGATA	465	8mer		TCCTCCGT	815	8mer	0.035113 CTCGGGTC
116	8mer	0.06132		466	8mer	0.04263	CTAAACAT	816	8mer	0.035093 CGGCGTGC
117	8mer	0.061146	TCGGTACT	467	8mer	0.04261	CGGGCGAG	817	8mer	0.035069 CTGTCGAC
118	8mer		CGGTGTCG	468	8mer	0.04258	CACAGATG	818	8mer	0.035065 TAGTGGGA
119	8mer	0.061067		469	8mer		GTAAGGGC	819	8mer	0.035051 CTCAGCCT
120	8mer	0.060888		470	8mer	0.04257	GGACGCAA	820	8mer	0.03505 GGCCGCTC
121	8mer	0.060681		471	8mer	0.04255	CCTGCGCC	821	8mer	0.035019 GGCCAGGT
122	8mer	0.06066	GGAGGGGT	472	8mer	0.04255	GGCGGTGT	822	8mer	0.035018 TTCACGCC
123	8mer	0.060619		473	8mer	0.04248	TGCACTTG	823	8mer	0.035013 CTGGCCAC
124	8mer	0.060596		474	8mer	0.04246	AGGAGGCC	824	8mer	0.034942 CTGGGCTG
125	8mer	0.060568		475	Triplet	0.04242	Triplet	825	8mer	0.034939 GTCGGAAA
126	8mer		AGGGGATA	476	8mer	0.04237	CCGAAGGG	826	8mer	0.034897 GCACTTGT
127	8mer	0.060304	CCTCGGCC	477	8mer	0.04234	TGAGCCAC	827	8mer	0.034893 TCGCTTGA
128	8mer	0.060137	GCATTCGG	478	8mer	0.04231	TCGGGGGT	828	8mer	0.034842 ACTCAGTG
129	8mer	0.060047	GGGCGCCC	479	8mer	0.04227	CCCGGGAG	829	8mer	0.034833 GAACTTAA
130	8mer	0.059996		480	SC-PseDNC	0.04225	SC-PseDNC	830	8mer	0.034822 CCCCAGGC
131	8mer	0.059859		481	8mer		CAACGTCT	831	8mer	0.034799 TCCCGCAA
132	8mer		GGGGCCTT	482	8mer	0.04222	CCGAAGAC	832	8mer	0.034779 TCTTAAGT
133	8mer	0.059758	GCTTCGCC	483	8mer	0.04217	TCGAGAGC	833	8mer	0.034736 TGTGGCCG
134	8mer	0.059737	GTGTTACT	484	8mer	0.04215	ACGGCCCA	834	8mer	0.034735 CCCTGATT
135	8mer	0.059509		485	8mer		CCGTGGAA	835	8mer	0.03473 CGCAAAAG
136	8mer	0.059376		486	8mer		AACTGCGG	836	8mer	0.034724 ACAAGCGA
137	8mer	0.059293		487	8mer	0.04207	CCAGGCAC	837	8mer	0.034711 CGGGCGTT
138	8mer	0.059292	CACGACCC	488	8mer	0.04206	AGGTCGTA	838	8mer	0.034709 GAGGGCCT
139	8mer	0.059268	CAACATGG	489	8mer	0.04206	GCCCGGCA	839	8mer	0.034708 GGCGTCGG
140	8mer	0.059228	GGGCGCGT	490	8mer	0.04206	AAGCGAGG	840	8mer	0.034707 ACCAGGGG
141	8mer	0.0589	CGTAGGGC	491	8mer	0.04204	TGCTGCGC	841	8mer	0.0347 AGGCACCT
142	8mer	0.058785		492	8mer		CGGAGGTT	842	8mer	0.034691 CTAATGGT
143	8mer		GGATCAGC	493	8mer		GTTCCCAC	843	8mer	0.034684 ACCGCTGG
144	8mer	0.058752	AAACGTCG	494	8mer	0.04194	AGACGGTC	844	8mer	0.034665 CATGGCAT
145	8mer	0.058738	AGATCCCG	495	8mer	0.0419	CCATAGTG	845	8mer	0.034628 GCGTTGTT
146	8mer	0.058588	TCCGTAGC	496	8mer		CGAAGGCG	846	8mer	0.034567 CACCGAAG
147	8mer		GGCGCAGC	497	8mer		GCCGCCAG	847	8mer	0.034557 CTGAAAAA
148	8mer		ACGCGGAG	498	8mer		AGCTTTTG	848	8mer	0.034523 CGCGGGAG
149	8mer		TAGGACAA	499	8mer		CCCGCCCC	849	8mer	0.034485 CGGTTAAC
150	8mer		GCCTTGGG	500	8mer		TCGACCTC	850	8mer	0.034454 CGGGAGTT
151	8mer	0.057646	AATCCCCG	501	8mer	0.04173	CCCGGAGG	851	8mer	0.03441 CGCCGCCT
152	8mer		CGCCGTTA	502	8mer		CACCACTT	852	8mer	0.034398 CCCTCACG
153	8mer		GTAAACCG	503	8mer		GACCTCGG	853	8mer	0.034398 AGGGCCGG
154	8mer		GGCCTATG	504	Triplet	0.04159		854	8mer	0.034374 CCCGGGCT
155	8mer		CGGACGTG	505	8mer		TCCGGTTG	855		0.034374 CCCGGGCT
									8mer	
156	8mer		GCCGGAAG	506	8mer		CGGAAACG	856	8mer	0.034352 GGGGGACG
157	8mer		TTCCCTAA	507	8mer		ACAATGAG	857	8mer	0.034348 CCGTATTA
158	8mer	0.057325	CGCGGGAA	508	8mer	0.04145	CCCTCGTC	858	8mer	0.034348 GGATTACA
159	8mer		GGAATATC	509	8mer		AGGTTCAA	859	8mer	0.034336 CCCTACCA
160	8mer		GGCGCGTC	510	8mer		GCCCCCCG	860	8mer	0.03431 GAAATTGA
161			GGTAACCG	511	8mer		CCGGGCCC	861		0.034267 GTCGGACC
	8mer								8mer	
162	8mer		AATCCGCC	512	8mer		GGGAGATC	862	8mer	0.034215 TTTTGTAT
163	8mer		ACATCGCG	513	8mer		TACTCGGG	863	8mer	0.034207 CCGGGCAT
164	8mer	0.057143	GAGGGCAG	514	8mer	0.04134	TACGTAAA	864	8mer	0.034187 TTGGAAAG
165			TGATCCGG	515	8mer		TCGCGGGC	865	8mer	0.034168 GATGCCCG
	8mer	1 0.057128		516	8mer		CCCGTATT	866	8mer	0.034158 GTGCCGGG
166	8mer 8mer		CTGATCCG	1 OTO	8mer		GACCTGGC	867	8mer	0.034138 GTGCCGGG 0.034099 CCGGGGCG
166	8mer	0.057127	CTGATCCG	L17			していいいしし	007	omer	
167	8mer 8mer	0.057127 0.057105	GCCGCAGT	517			00000100	000		0.004004 04 00000
167 168	8mer 8mer 8mer	0.057127 0.057105 0.057074	GCCGCAGT GACGAGCC	518	8mer		GCCCGAGG	868	8mer	0.034094 GAAGGCGG
167 168 169	8mer 8mer	0.057127 0.057105 0.057074 0.05707	GCCGCAGT GACGAGCC GTCGGTAC	518 519		0.04114	GCATTCCG	869		0.034065 GCAATGCG
167 168	8mer 8mer 8mer	0.057127 0.057105 0.057074 0.05707	GCCGCAGT GACGAGCC	518	8mer	0.04114			8mer	
167 168 169 170	8mer 8mer 8mer 8mer 8mer	0.057127 0.057105 0.057074 0.05707 0.05707	GCCGCAGT GACGAGCC GTCGGTAC TCGTAGGG	518 519 520	8mer 8mer 8mer	0.04114 0.04113	GCATTCCG CATTCGAT	869 870	8mer 8mer 8mer	0.034065 GCAATGCG 0.034064 TCCCCTCG
167 168 169 170 171	8mer 8mer 8mer 8mer 8mer 8mer	0.057127 0.057105 0.057074 0.05707 0.05707 0.056971	GCCGCAGT GACGAGCC GTCGGTAC TCGTAGGG CGGGCATC	518 519 520 521	8mer 8mer 8mer 8mer	0.04114 0.04113 0.04111	GCATTCCG CATTCGAT GGGGCGGG	869 870 871	8mer 8mer 8mer 8mer	0.034065 GCAATGCG 0.034064 TCCCCTCG 0.034041 GCCCACAA
167 168 169 170 171 172	8mer 8mer 8mer 8mer 8mer 8mer	0.057127 0.057105 0.057074 0.05707 0.05707 0.056971 0.056836	GCCGCAGT GACGAGCC GTCGGTAC TCGTAGGG CGGGCATC CGCCGTGT	518 519 520 521 522	8mer 8mer 8mer 8mer 8mer	0.04114 0.04113 0.04111 0.04108	GCATTCCG CATTCGAT GGGGCGGG AAGGGTCC	869 870 871 872	8mer 8mer 8mer 8mer 8mer	0.034065 GCAATGCG 0.034064 TCCCCTCG 0.034041 GCCCACAA 0.034036 GCTGCTAG
167 168 169 170 171 172 173	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.057127 0.057105 0.057074 0.05707 0.05707 0.056971 0.056836 0.056612	GCCGCAGT GACGAGCC GTCGGTAC TCGTAGGG CGGGCATC CGCCGTGT TGCGGTAA	518 519 520 521 522 523	8mer 8mer 8mer 8mer 8mer 8mer	0.04114 0.04113 0.04111 0.04108 0.04108	GCATTCCG CATTCGAT GGGGCGGG AAGGGTCC TTGCGGAA	869 870 871 872 873	8mer 8mer 8mer 8mer 8mer	0.034065 GCAATGCG 0.034064 TCCCCTCG 0.034041 GCCCACAA 0.034036 GCTGCTAG 0.034008 GGCGGCAC
167 168 169 170 171 172 173 174	8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.057127 0.057105 0.057074 0.05707 0.05707 0.056971 0.056836 0.056612 0.056504	GCCGCAGT GACGAGCC GTCGGTAC TCGTAGGG CGGGCATC CGCCGTGT TGCGGTAA GGAGCCGG	518 519 520 521 522 523 524	8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.04114 0.04113 0.04111 0.04108 0.04108 0.04101	GCATTCCG CATTCGAT GGGGCGGG AAGGGTCC TTGCGGAA CTAATGCA	869 870 871 872 873 874	8mer 8mer 8mer 8mer 8mer	0.034065 GCAATGCG 0.034064 TCCCCTCG 0.034041 GCCACAA 0.034036 GCTGCTAG 0.034008 GGCGGCAC 0.034007 ACCTGGTC
167 168 169 170 171 172 173	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.057127 0.057105 0.057074 0.05707 0.05707 0.056971 0.056836 0.056612 0.056504	GCCGCAGT GACGAGCC GTCGGTAC TCGTAGGG CGGGCATC CGCCGTGT TGCGGTAA	518 519 520 521 522 523	8mer 8mer 8mer 8mer 8mer 8mer	0.04114 0.04113 0.04111 0.04108 0.04108 0.04101	GCATTCCG CATTCGAT GGGGCGGG AAGGGTCC TTGCGGAA	869 870 871 872 873	8mer 8mer 8mer 8mer 8mer	0.034065 GCAATGCG 0.034064 TCCCCTCG 0.034041 GCCCACAA 0.034036 GCTGCTAG 0.034008 GGCGGCAC
167 168 169 170 171 172 173 174 175	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.057127 0.057105 0.057074 0.05707 0.05707 0.056971 0.056836 0.056612 0.056504	GCCGCAGT GACGAGCC GTCGGTAC TCGTAGGG CGGGCATC CGCCGTGT TGCGGTAA GGAGCCGG ATAGCTAA	518 519 520 521 522 523 524 525	8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.04114 0.04113 0.04111 0.04108 0.04108 0.04101 0.04095	GCATTCCG CATTCGAT GGGGCGGG AAGGGTCC TTGCGGAA CTAATGCA CCCGTCTC	869 870 871 872 873 874 875	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.034065 GCAATGCG 0.034064 TCCCCTCG 0.034041 GCCCACAA 0.034036 GCTGCTAG 0.034008 GGCGCAC 0.034007 ACCTGGTC 0.033999 AACAAGCG
167 168 169 170 171 172 173 174 175 176	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.057127 0.057105 0.057074 0.05707 0.05707 0.056971 0.056836 0.056612 0.056504 0.056504 0.056504	GCCGCAGT GACGAGCC GTCGGTAC TCGTAGGG CGGGCATC CGCCGTGT TGCGGTAA GGAGCCGG ATAGCTAA CGGGATTC	518 519 520 521 522 523 524 525 526	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.04114 0.04113 0.04111 0.04108 0.04108 0.04101 0.04095 0.04083	GCATTCCG CATTCGAT GGGGCCGG AAGGGTCC TTGCGGAA CTAATGCA CCCGTCTC CATCGCCG	869 870 871 872 873 874 875	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.034065 GCAATGCG 0.034064 TCCCCTCG 0.034041 GCCCACAA 0.034036 GCTGCTAG 0.034008 GGCGGCAC 0.034007 ACCTGGTC 0.033999 AACAAGCG 0.03399 TGCCTAAG
167 168 169 170 171 172 173 174 175 176	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.057127 0.057105 0.057074 0.05707 0.05707 0.056971 0.056836 0.056612 0.056504 0.056504 0.056438	GCCGCAGT GACGAGCC GTCGGTAC TCGTAGGG CGGGCATC CGCCGTGT TGCGGTAA GGAGCCGG ATAGCTAA CGGGATTC GAGACGCC	518 519 520 521 522 523 524 525 526 527	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.04114 0.04113 0.04111 0.04108 0.04101 0.04101 0.04095 0.04083 0.04082	GCATTCCG CATTCGAT GGGGCGGG AAGGGTCC TTGCGGAA CTAATGCA CCCGTCTC CATCGCCG CCGCCGGC	869 870 871 872 873 874 875 876	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.034065 GCAATGCG 0.034064 TCCCCTCG 0.034041 GCCCACAA 0.034036 GCTGCTAG 0.034008 GGCGGCAC 0.034007 ACCTGGTC 0.033999 AACAAGCG 0.03399 TGCCTAAG 0.033985 TACAAGCG
167 168 169 170 171 172 173 174 175 176 177	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.057127 0.057105 0.057074 0.05707 0.05707 0.056971 0.056836 0.056504 0.056504 0.056504 0.056455 0.056438	GCCGCAGT GACGAGCC GTCGGTAC TCGTAGGG CGGGCATC CGCCGTGT TGCGGTAA GGAGCCGG ATAGCTAA CGGGATTC GAGACGCC CGTGCTCG	518 519 520 521 522 523 524 525 526 527 528	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.04114 0.04113 0.04111 0.04108 0.04101 0.04095 0.04083 0.04082	GCATTCCG CATTCGAT GGGGCGGG AAGGGTCC TTGCGGAA CTAATGCA CCCGTCTC CATCGCCG CCGCCGGC GGGACCGC	869 870 871 872 873 874 875 876 877 878	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.034065 GCAATGCG 0.034064 TCCCCTCG 0.034041 GCCCACAA 0.034040 GCTGCTAG 0.034008 GGCGGCAC 0.034007 ACCTGGTC 0.033999 AACAAGCG 0.03399 TGCCTAAG 0.033995 TACAAGCG 0.033952 CTGGTCTC
167 168 169 170 171 172 173 174 175 176 177 178	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.057127 0.057105 0.057074 0.05707 0.05707 0.056971 0.056836 0.056504 0.056504 0.056504 0.056438 0.056382 0.056382	GCCGCAGT GACGAGCC GTCGGTAC TCGTAGGG CGGCGTGT TGCGCTAA GGAGCCCG ATAGCTAA CGGGATTC GAGACGCC CGTGCTCG CGGGCCCC	518 519 520 521 522 523 524 525 526 527 528 529	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.04114 0.04113 0.04111 0.04108 0.04101 0.04095 0.04083 0.04082 0.0408	GCATTCCG CATTCGAT GGGGCGGG AAGGGTCC TTGCGGAA CTAATGCA CCCGTCTC CATCGCCG CCGCCGGC GGGACCGC TAACGGGA	869 870 871 872 873 874 875 876 877 878	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.034065 GCAATGCG 0.034064 TCCCCTCG 0.034064 TCCCCTCG 0.0340401 GCCCACAA 0.034036 GCTGCTAG 0.034008 GGCGGCAC 0.034007 ACCTGGTC 0.033999 AACAAGCG 0.033995 TGCTAAG 0.033985 TACAAGCG 0.033917 GGTCTCGA
167 168 169 170 171 172 173 174 175 176 177 178 179	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.057127 0.057105 0.057074 0.05707 0.05707 0.056971 0.056836 0.056504 0.056504 0.056322 0.056327 0.056377	GCCGCAGT GACGAGCC GTCGGTAC TCGTAGGG CGGCATC CGCCGTGT TGCGGTAA GGAGCCGG ATAGCTAA CGGGATTC GAGACGCC CGTGCTCG CGGGCCCC	518 519 520 521 522 523 524 525 526 527 527 528 529 530	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.04114 0.04113 0.04111 0.04108 0.04108 0.04109 0.04095 0.04083 0.04082 0.0408 0.0408 0.0408	GCATTCCG CATTCGAT GGGGCGGG AAGGGTCC TTGCGGAA CTAATGCA CCCGTCTC CATCGCCG CCGCCGGC GGGACCGC TAACGGGA CGCGATGA	869 870 871 872 873 874 875 876 877 877 878 879	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.034065 GCAATGCG 0.034064 TCCCCTCG 0.034064 TCCCCTCG 0.034041 GCCCACAA 0.034036 GCTGCTAG 0.034008 GGCGGCAC 0.034007 ACCTGGTC 0.033999 AACAAGCG 0.03399 TGCCTAAG 0.033985 TACAAGCG 0.033952 CTGGTCTC 0.033911 TATGATAC
167 168 169 170 171 172 173 174 175 176 177 178	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.057127 0.057105 0.057074 0.05707 0.05707 0.056971 0.056836 0.056504 0.056504 0.056322 0.056327 0.056377	GCCGCAGT GACGAGCC GTCGGTAC TCGTAGGG CGGCGTGT TGCGCTAA GGAGCCCG ATAGCTAA CGGGATTC GAGACGCC CGTGCTCG CGGGCCCC	518 519 520 521 522 523 524 525 526 527 528 529	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.04114 0.04113 0.04111 0.04108 0.04108 0.04109 0.04095 0.04083 0.04082 0.0408 0.0408 0.0408	GCATTCCG CATTCGAT GGGGCGGG AAGGGTCC TTGCGGAA CTAATGCA CCCGTCTC CATCGCCG CCGCCGGC GGGACCGC TAACGGGA	869 870 871 872 873 874 875 876 877 878	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.034065 GCAATGCG 0.034064 TCCCCTCG 0.034064 TCCCCTCG 0.0340401 GCCCACAA 0.034036 GCTGCTAG 0.034008 GGCGGCAC 0.034007 ACCTGGTC 0.033999 AACAAGCG 0.033995 TGCTAAG 0.033985 TACAAGCG 0.033917 GGTCTCGA

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287 879 0.05595 SATTLACK 524 870 0.0559 O.0550 C.05746A 881 870 0.05555 C.05746A 187 870 187	182	8mer	0.056053 ATCGCGGG	532	8mer			882	8mer	0.033872 GATTTTTA
285										
BRIDGE CONSTANT CARRETTO CONSTANT CARRET		8mer			8mer					
1877 1879et 0.05500 CACACTO. 188 1879et 0.052792 CACATTO. 188 1879et 0.0528792 CACATTO. 188 1879et 0.0528792 CACATTO. 189	185	8mer	0.055575 GGAATCGT	535	8mer	0.04079	CTGGGCCT	885	8mer	0.033778 TCGTGACA
Sept	186	8mer	0.055533 AAAAATTA	536	8mer	0.04073	CCTGGCGT	886	8mer	0.033767 GTCCCTGG
1910 8mer 0.05531 ACCICTOR 598 8mer 0.0406 GOCCATTA 899 8mer 0.03331 ACCICCAD 100 8mer 0.05561 GOCCACAD 100 8mer 0.05561 GOCCACAD 100 8mer 0.05651 GOCCACAD 100	187	8mer	0.055492 CGGATCTA	537	8mer	0.04071	TGGGACCT	887	8mer	0.033762 CGAATTAC
1910 Semer 0.05555 CCCCTGGT 540 Semer 0.04067 TCACGCCA 590 Semer 0.03836 CCACCAGO 1910 Semer 0.05615 CCCCAGO 541 Semer 0.0466 CCACAGO 591 Semer 0.03837 CCCCAGO 1913 Semer 0.05616 CACAGO 543 Semer 0.04646 CCCCAGO 593 Semer 0.05616 CACAGO 545 Semer 0.04646 CACCAGO 594 Semer 0.05616 CACAGO CCCCAGO 594 Semer 0.05616 CACAGO CCCCAGO CCCCA	188	8mer	0.05548 AGACCCGC	538	8mer	0.04069	CGTAATAC	888	8mer	0.03376 GTGCCTAA
191 Bried 0055918 (CIGGARG 541 Bried 004696 (CAACACC 891 Bried 0036918 (CACACC) CACACCC 192 Bried 0056918 (CACACCC 193 Bried 0056918 (CACACCC 194 Bried 0056918 (CACACCC 194 Bried 194	189	8mer	0.055231 ACCTGTAC	539	8mer	0.04064	GGCGTTCA	889	8mer	0.033714 ACTGCGAT
191 Bried 0055918 (CIGGARG 541 Bried 004696 (CAACACC 891 Bried 0036918 (CACACC) CACACCC 192 Bried 0056918 (CACACCC 193 Bried 0056918 (CACACCC 194 Bried 0056918 (CACACCC 194 Bried 194	190	8mer	0.0552 GCCCTGGT	540	8mer	0.04057	TCACGCCA	890	8mer	0.033696 GCACCACG
1922 Semen 0.05-900 FUNDATION 5-22 Semen 0.04000 FUNDATION 1930 Semen 0.038971 FUNDA										
1931 Series O. O. O. SERIES (CACATOL) 5-63 Series O. O. SERIES TOTALOGO 194 Series O. O.										
194 Remer 0.05481 PACACCE 544 Remer 0.01486 GOATICO, 893 Remer 0.03351 ATACCEC 195 Remer 0.05481 CACACTO, 144 Remer 0.04481 ATACCE 145 Remer 0.04481 ATACCE										
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197 Smert O.05449 ANTAIACC 547 Smert O.0400 C.GCCAGCGG 888 Smert O.05345 C.GCCAGCGG 1989 Smert O.05549 C.GCCAGCGG 549 Smert O.05409 C.GCCAGCGG 549 Smert O.05409 C.GCCAGCGG 549 Smert O.05409 C.GCCAGCGG 549 Smert O.05409 C.GCCAGCGG 540 Smert										
1998 Britanet 0.054498 LACCOCCASCO 240 Britanet 0.054498 LACCOCCASCO 250 Britanet 0.054998										
1999 Shreat 0.054389 ACCCGCAG 549 Shreat 0.04389 TGGCGTGC 500 Shreat 0.054391 TGGCGGTC 500 Shreat 0.054391 TGGCGGTGC 500 Shreat 0.054391 TGGCGGTGC 500 Shreat 0.054391 TGGCGGTGC 500										
2001 Binner 0.094901 CEGIFANCE 590 Binner 0.093807 CEG										
201 Smert O.954267 IASAGSCOG 55.1 Smert O.96137 CCCCCTGAC, 69.1 Smert O.953807 CAGCACTT CCGCATT CCCCATT CC										
2023 Smert 0.059438 CGCCGTGT 592 Smert 0.04037 CGCCGGCT 593 Smert 0.05340 CGCCGTGT 593 Smert 0.05340 CGCCGTGT 593 Smert 0.05340 CGCCGTGT 593 Smert 0.05340 CGCGTGT 593 Smert 0.05340 CGCGTGT 593 C										
2003 Semer 0.053955 CCCCCGTG 553 Semer 0.04033 CCTGTGTA 200 Semer 0.05386 CCAGCCCG 555 Semer 0.04033 CGCCTGGTA 200 Semer 0.05386 CCAGCCCG 555 Semer 0.04033 CGCCTGGC 200 Semer 0.05386 CCAGCCCG 555 Semer 0.04033 CGCCGTGGC 200 Semer 0.05386 CCAGCCCG 555 Semer 0.04035 CGCCGGGC 200 Semer 0.05397 CCGCGGC 200 Semer 0.05397 CCAGCGC 200 Semer 0.05397 CCCGGGC 200 Semer 0.05397 CCCGGGCC 200 Semer 0.05397 CCCGGCCC 200 Semer 0.05397 CCCGCCCC 200 Semer 0.05397 CCCGCCCC 200 Semer 0.05397 CCCGCCCC 200 Semer 0.05397 CCCCGCCCC 200 Semer 0.05397 CCCCCCCC 200 Semer 0.05397 CC										
2004 Smert 0.053902 AAATTAG S54 Smert 0.040313 GCCCTGGTA CCCCT GCGCCCC CCCCCCC S55 Smert 0.040313 GCGCCTAG GCCCCCC GCGCCCC GCGCCCCC GCGCCCC GCGCCCCC GCGCCCC GCGCCC GCGCCCC GCGCCC GCGCCC G										
2006 Bernet 0.053867 CAGCCCCC 5056 Bernet 0.04031 CFGCGTCG 506 Bernet 0.053317 CFGCGTC 507 Bernet 0.053407 ATGCAAGG 557 Bernet 0.04031 CFGCAAGG 557 Bernet 0.053407 ATGCAAGG 557 Bernet 0.04031 CFGCAAGG 557 Bernet 0.04031 CFGCAAGG 557 Bernet 0.04030 CFGCAAGG 557 Bernet 0.05240 CFGCAAGG 560 Bernet 0.04030 CFGCAAGG 560 Bernet 0.04030 CFGCAAGG 560 Bernet 0.04030 CFGCAAGG 560 Bernet 0.04030 CFGCAGG 560 Bernet 0.04030										
2006 8mer 0.05538 GACCCTCC 556 8mer 0.04039 GGATATA A										
2007 Smere D053492 ATGCAACG S55 Smere D04029 GGATTATA Smere D053492 CCCAGCC S59 Smere D04029 GGACCAAA Smere D05329 GCAGCCC S59 Smere D04029 GGACCAAA Smere D05329 GCAGCCC S59 Smere D04029 GGACCAAA Smere D05329 GCAGCCC S59 Smere D04029 GCAGCCCAA Smere D05329 GCAGCCCC S59 Smere D04029 GCAGCCCC S59 Smere D04029 GCAGCCCC S59 Smere D04029 GCAGCCCCC S59 Smere D04029 GCAGCCCCC S59 Smere D04029 GCACCCCCC S59 Smere D04029 GCACCCCC S59 Smere D04029 GCACCCCC S50 Smere D04029 GC										
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2112 Benner 0.052902 GCTGCTGC 562 Benner 0.04022 AGCCGTTT 912 Benner 0.033278 CTGCGGT 2114 Benner 0.052796 CTGCGGTC 564 Benner 0.04021 GGGGGGG 914 Benner 0.033278 CTGCGGTC 564 Benner 0.04019 AGGAGGGGT 914 Benner 0.033278 CTGCGGTC 564 Benner 0.04019 AGGAGGGGT 915 Benner 0.033278 CTGCGGTC 516 Benner 0.052597 GANTATIC 565 Benner 0.04019 AGGAGGGT 915 Benner 0.03328 CACATTIC 565 Benner 0.04019 AGGAGGGT 915 Benner 0.033183 CACATTIC CACATGGC 916 Benner 0.052597 GANTATIC 586 Benner 0.04019 GGGGGGTC 916 Benner 0.03318 CACATTIC CACATGGC 916 Benner 0.052419 CCAGGTCC 569 Benner 0.04019 GGGGGGTGT 918 Benner 0.052419 CCAGGTCC 569 Benner 0.04019 GGGGGGGT 919 Benner 0.052419 CCAGGTCC 570 Benner 0.052419 CCAGGTCC 569 Benner 0.05299 TATTGCGGA 571 Benner 0.05299 CGGGGGGT 919 Benner 0.052319 CGGGCGCG 572 Benner 0.052919 CGGGGGGT 919 Benner 0.052919 CGGGGCGGA 919 Benner 0.052919 CGGGCGCG 922 Benner 0.052919 CGGGCGCG 922 Benner 0.052919 CGGGCGCG 922 Benner 0.052919 CGGGGGGGG 922 Benner 0.052919 CGGGGGGGG 923 Benner 0.052919 CGGGGGGGG 923 Benner 0.052919 CGGGGGGGG 924 Benner 0.052919 CGGGGGGGG 924 Benner 0.052919 CGGGGGGGG 924 Benner 0.052919 CGGGGGGGG 924 Benner 0.052919 CGGGGGGGG 925 Benner 0.052919 CGGGGGGGG 926 Benner 0.052919 CGGGGGGGG 926 Benner 0.052919 CGGGGGGGG 926 Benner 0.052919 CGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG										
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221 8mer 0.052379 THTGCGA 571 8mer 0.03399 TATTGAG 921 8mer 0.033084 AGGGCCG 223 8mer 0.052314 CTGACCAG 573 8mer 0.03391 CGACTACT 922 8mer 0.033036 GCCGCATA 774 8mer 0.05397 TATTCAGA 924 8mer 0.033036 GCCGCATA 725 8mer 0.05217 GCAGAGGG 575 8mer 0.03397 TATTCAGA 924 8mer 0.033036 GCCGATA 225 8mer 0.05292 CGTGGCGG 576 8mer 0.03397 TATTCAGA 924 8mer 0.033036 GCCGATA 225 8mer 0.05292 CGTGGCGG 576 8mer 0.03398 CGCGATAG 925 8mer 0.033004 GCTCACAC 226 8mer 0.05292 CGTGGCGG 576 8mer 0.03398 CGCGATGG 926 8mer 0.033931 CGCGATGC 227 8mer 0.05183 CGCGATGG 576 8mer 0.03893 CGCGATGG 926 8mer 0.032931 CGCGATGC 228 8mer 0.05183 CGCGATGG 579 8mer 0.03893 CGGATGGG 926 8mer 0.032931 CGCGATGG 228 8mer 0.05183 CGGCGGCG 579 8mer 0.03893 CGGATGGG 928 8mer 0.032931 CGCGATGGC 229 8mer 0.032931 CGCGATGG 229 8mer 0.032931 CGGCGGCG 228 8mer 0.032931 CGGCGGCG 233 8mer 0.05182 CGGAGGAGG 581 8mer 0.038931 CGGCGGCG 238 8mer 0.032931 CGGCGGCG 882 8mer 0.038931 CGGCGGCG 393 8mer 0.032931 CGGCGGCG 383 8mer 0.05182 CGGAGGAGG 384 8mer 0.05182 CGGAGGAGG 384 8mer 0.05182 CGGAGGAGG 384 8mer 0.032931 CGGCGGCG 394 8mer 0.032931 CGGCGGCG 394 8mer 0.032931 CGGGGCG 395 8mer 0.032931 CGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG										
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228	226	8mer	0.052092 CGTCGGCG	576	8mer	0.03985	CGCGAACG		8mer	0.032975 CCCAGTGC
229 8mer 0.051652 GGGACCTT 590 8mer 0.038918 GCGGGTCT 593 8mer 0.032903 6GCGATTC 593 8mer 0.032903 6GCGATCC 593 8mer 0.032903 6GCGATCC 593 8mer 0.032903 6GCGGTCT 593 8mer 0.032903 6GCGGTCT 593 8mer 0.032903 6GCGGTCT 593 593 6GCGGTCT 593	227	8mer	0.051893 CCCGAAGT	577	8mer	0.03983	CTGTGGGG	927	8mer	0.032933 CCGCCGCC
230 8mer		8mer	0.051883 GCGGTGTC		8mer	0.03981	CCTCGCGG		8mer	
231 Bmer 0.051615 GGGTCGAG 581 Bmer 0.039613 CATGATCG 582 Bmer 0.039613 CTGCGGTCC 233 Bmer 0.032013 CCCAGCT 583 Bmer 0.039515 CGGGTCC 234 Bmer 0.0512186 GAGCGCCA 584 Bmer 0.03955 CGAGCACT 934 Bmer 0.032903 CGGTATAC CGGTCTA 234 Bmer 0.0512289 ATTGCCTG 585 Bmer 0.03955 GAGCACAT 934 Bmer 0.032903 CGGTCTA 235 Bmer 0.0511276 CAAGATCG 585 Bmer 0.03951 AACGCCTG 935 Bmer 0.032903 CGGTATAC 236 Bmer 0.0511278 ATTGCCTG 586 Bmer 0.03894 CGCCCCAG 935 Bmer 0.032903 CCGTATAC 237 Bmer 0.051123 CGGTTCAG 586 Bmer 0.03894 CGCCCCAG 936 Bmer 0.032903 CCGTATCG CGGTCA 238 Bmer 0.05908 ACGGCCAG 588 Bmer 0.03994 CTGCACCG 936 Bmer 0.032903 CCGTATAC CGGTCAG CGGTCAGCCG CGGTCAGCCGC CGGTCAGCCG CGGTCAGCCG CGGTCAGCCG CGGTCAGCCG CGGTCAGCCG CGGTCAGCCG CGGTCAGCCG CGGTCAGCCGC CGGTCAGCCGCC CGGTCAGCCGCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	229	8mer	0.051652 CGTGAGCC	579	8mer	0.03981	CGAGATGG	929	8mer	0.032903 GCCGATCG
Same	230	8mer	0.05164 GCCGCATT	580	8mer	0.03976	GCCGGTCT	930	8mer	0.032903 CGACGAAG
233	231	8mer	0.051615 GGGTCGAG	581	8mer	0.03963	CATGTAAT	931	8mer	0.032903 CCGTATAC
234	232	8mer	0.051532 TCGAGTCG	582	8mer	0.0396	TCGCGTCC	932	8mer	0.032903 ACTCGCGC
235	233	8mer	0.051301 TCCCAGCT	583	8mer	0.03955	TCGATGAG	933	8mer	0.032903 CCGCTATA
235	234	8mer	0.051286 GAGCGCCA	584	8mer	0.03955	GGAGCACT	934	8mer	0.032903 CGGTGCTA
237 8mer 0.051168 GCTCCAGC 588 8mer 0.0394 CGCGCAGC 738 8mer 0.032903 CGTATCG 738 8mer 0.051068 GCTCCTCG 739 8mer 0.050908 ACGGGCAG 589 8mer 0.03938 CGAAATTA 738 8mer 0.032903 CGGTATCG 740	235	8mer	0.051239 ATTGCCTG	585	8mer	0.03951	AACGCCTG	935		0.032903 TTTAGCGC
238	236	8mer	0.051176 CAAGATCG	586	8mer	0.03949	CGGCGCTG	936	8mer	0.032903 CACGAACG
238	237	8mer		587	8mer			937	8mer	0.032903 CCGTATCG
239		8mer		588	8mer				8mer	
240 8mer 0.050867 AGTCGCG 590 8mer 0.03936 CAATGCCC 940 8mer 0.032903 CGGCTAAC			0.050908 ACGGGCAG	589	8mer	0.03938	CGAAATTA	939		
241	240	8mer		590	8mer			940	8mer	0.032903 CGGCTAAC
242								941		
243										
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247			0.050593 CTCCGTAG			0.03918	TTTTTTAG			0.032903 CGCTTATG
248 8mer 0.050492 CGTCCAAT 598 8mer 0.03915 TGGGGCGG 948 8mer 0.032903 ACGACGAT 249 8mer 0.050489 TGAATGCA 599 8mer 0.03913 TACCGGCA 949 8mer 0.032903 ATCGGCAC 251 8mer 0.050332 GGGCGGC 600 8mer 0.03909 CATGCTAC 950 8mer 0.032903 TGCACAC 252 8mer 0.05023 TGCCGGTC 602 8mer 0.03904 AACTGTAC 951 8mer 0.032903 GGTGCAC 253 8mer 0.050185 ATACCG 602 8mer 0.039 CAGGAGAAA 953 8mer 0.032903 GGTGCGC 254 8mer 0.050185 ATTACTGC 604 8mer 0.039 CAGCAGG 954 8mer 0.032903 TCGAGCG 255 8mer 0.050111 CCTGAGCA 605 8mer 0.039 CCATCGTC 955 8mer 0.032903 TCGAGCG 256 8mer 0.050178 GACTGTAC 606 8mer 0.03896 GAGGGCA 955 8mer 0.032903 ACCCGAT 257 8me										
249	248	8mer		598	8mer	0.03915	TGGGGCGG	948		
250		8mer			8mer			949		
251	250	8mer	0.050383 GCCTGGCC	600	8mer	0.03909	CATGCTAC	950	8mer	0.032903 TCGTACAC
252										
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State	253		0.0502 TAATACCG			0.039	GCAGAAAA			0.032903 CGTTCGGC
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257 8mer 0.050071 GGCGTGCT 607 8mer 0.03897 GGTGAAAC 957 8mer 0.032903 CCGGATTA 258 8mer 0.049934 GGAAACGG 608 8mer 0.03894 CGGATGTC 958 8mer 0.032903 GTCGGAGT 259 8mer 0.049887 CCTCCGTA 609 8mer 0.03893 AAGCCGCA 959 8mer 0.032903 ATAGCGCC 260 8mer 0.049846 GATCGCGC 610 8mer 0.03895 TGACGCGA 960 8mer 0.032903 ATAGCGCC 261 8mer 0.049846 GATCGCGC 611 8mer 0.03885 TGACGCGA 961 8mer 0.032903 ATAGCGCC 262 8mer 0.049787 CGGAGGCG 612 8mer 0.03875 TGCGTGAG 961 8mer 0.032903 TACGGCC 263 8mer 0.049757 CGAGATCG 614 8mer 0.03877 TCATTGCC 962 8mer 0.032903 ACGACTGA 265 8mer 0.049702 AATAGCCA 615 8mer 0.03869 TGTGTTAC 965 8mer 0.032903 ACGACGG 266										
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2.0 Since 0.043102[OCT100000 023 Since 0.03001[DATIMORO] 313 Since 0.032303 [GCCGCTA]										
	213	OHE	0.04310Z CATTOCCO	023	Juliel	0.05001	UNTINUAU	313	OHE	0.002303 10CCGC1A

274	8mer	0.048983	GCCAGAGT
275	8mer	0.0489	GGCGCCCA
276	8mer	0.048871	AGCCGCAT
277	8mer	0.048848	
278	8mer		CTTCCCTA
279	8mer		GATCGTCG
280	8mer		GGCTATTG
281 282	8mer 8mer	0.04869 0.048651	GGGACTGA TGAACACG
283	8mer	0.048619	GGGCGGGG
284	8mer	0.048591	ACTGTGGG
285	8mer	0.048586	GACCCGCA
286	8mer	0.048551	AGACCTGG
287	8mer	0.048515	GACTCGCG
288	8mer	0.048481	CGCCGCCG
289	8mer	0.048465	CGGGAGCG
290	8mer	0.048459	CGCCCGGC
291	8mer	0.048409	
292	8mer	0.048382	ATCGTCGT
293	8mer		GTTGTACG
294	8mer	0.048104	
295 296	8mer 8mer	0.048021	GTGGGAGG AGGTCCCT
296	8mer	0.048009	
298	8mer	0.047939	CGAGACTG
299	8mer		CCCGAAGG
300	8mer	0.047877	
301	8mer	0.047858	CCTGTCGG
302	8mer	0.047854	CGGCGGGG
303	8mer	0.047816	
304	8mer		CTCGTCAA
305	Triplet	0.047765	
306	8mer		AGTCGGAG
307	8mer		CCTCTCAT
308 309	8mer	0.047708 0.047676	
310	8mer 8mer	0.047676	ACTTCGAG TGCGGGGG
311	8mer		GCCCGAAC
312	8mer	0.047521	TGGGCGCC
313	8mer	0.047505	ACATGGCA
314	Triplet	0.047503	Triplet
315	8mer	0.047497	TGCACGCA
316	8mer	0.047407	CGCATTCC
317	8mer	0.047393	CACCGGAC
318	8mer	0.047279	
319	8mer	0.047215	
320 321	8mer	0.047169	GGTCGAGA AAGTCGGG
322	8mer 8mer	0.047111	CGACCCGG
323	8mer	0.047052	GCGCCGTG
324	8mer	0.046985	TGCGTCAA
325	8mer	0.04697	TGGACAGC
326	8mer	0.046957	TCGTCAAC
327	8mer		CACGGGAG
328	8mer		ACGACCCG
329	8mer		TATCCAGT
330	8mer		GGTCATCG
331	8mer		ACGCAGGG
332	8mer		CTCCCAAA
333	8mer		CCCCCAAA
334 335	8mer		CGGGGCGG TTATGTCG
336	8mer 8mer		GCGCAGCA
337	8mer		GACCGCGA
338	8mer		AGAAGCGG
339	8mer		ATCGCCGA
340	8mer	0.04641	
341	8mer	0.046361	AGCAGTCC
342	8mer	0.046282	AGCTCGGC
343	8mer	0.046234	
344	8mer		CGGGCACT
345	8mer	0.046201	
346	8mer		CAGGACGA
347	8mer 8mer	0.046108	GGTCGGGC
347 348	8mer 8mer 8mer	0.046108 0.04606	GGTCGGGC CGGGGCCA
347	8mer 8mer	0.046108 0.04606	GGTCGGGC CGGGGCCA CGCCCGAG

624	8mer	0.0386	TCGCCGCC
625	8mer	0.03858	AGGATGTT
626	8mer	0.03857	CCGCGGAT
627	8mer	0.03857	ATGAGCTA
628 629	8mer	0.03857	ACTCGTCA
630	8mer 8mer	0.03856 0.03854	GCGGAGGT ATAACGAG
631	8mer	0.03854	GAATATCT
632	8mer	0.03853	GACACGGG
633	8mer	0.03851	AACATGGT
634	8mer	0.03848	ATAGTGCG
635	8mer	0.03845	GACGGGCG
636	8mer	0.03845	TGCAAGTT
637	8mer	0.03836	CGCGGATT
638 639	8mer	0.03836 0.03834	GCCCGGAG ACGTCCGG
640	8mer 8mer	0.03833	TAGATCGT
641	8mer	0.0383	GCGGAGTT
642	8mer	0.03828	ACGCCACA
643	8mer	0.03827	ATGGGACC
644	8mer	0.03825	CGTCATGA
645	8mer	0.03825	CATCCGTC
646	8mer	0.03825	GAGGGCGC
647 648	8mer	0.03824 0.03823	TGATTCGC TGCGCTCC
649	8mer 8mer	0.03823	GGGCTCAC
650	8mer	0.03819	GCACGTGG
651	8mer	0.03817	GGTGTCGT
652	8mer	0.03814	CGGCTGGG
653	8mer	0.03812	CTGACGCG
654	8mer	0.03805	TTAAATGA
655	8mer	0.03805	TCACCGCG
656	8mer	0.03802	CTCACATC
657 658	8mer	0.03795 0.03794	TGCGCCGA GCAAACGT
659	8mer 8mer	0.03794	CCGGGAAC
660	8mer	0.03793	TGGCCAGG
661	8mer	0.03789	CGAATGAT
662	8mer	0.03787	ACGCGACA
663	8mer	0.03787	GACGCGAC
664	8mer	0.03787	TGTCGACC
665	8mer	0.03787	TAAACCGC
665 666	8mer 8mer	0.03787	GCTCGCGT
665 666 667	8mer 8mer 8mer	0.03787 0.03786	GCTCGCGT CGGCCTCC
665 666 667 668	8mer 8mer 8mer 8mer	0.03787 0.03786 0.03783	GCTCGCGT CGGCCTCC GACGCCTC
665 666 667	8mer 8mer 8mer 8mer 8mer	0.03787 0.03786	GCTCGCGT CGGCCTCC
665 666 667 668 669	8mer 8mer 8mer 8mer	0.03787 0.03786 0.03783 0.03783	GCTCGCGT CGGCCTCC GACGCCTC TTCAATGA
665 666 667 668 669 670 671	8mer 8mer 8mer 8mer 8mer	0.03787 0.03786 0.03783 0.03783 0.03782 0.03776 0.03776	GCTCGCGT CGGCCTCC GACGCCTC TTCAATGA CTCGTCGA GGCCGTCG TGGGGTAT
665 666 667 668 669 670 671 672 673	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.03787 0.03786 0.03783 0.03783 0.03782 0.03776 0.03776	GCTCGCGT CGGCCTCC GACGCCTC TTCAATGA CTCGTCGA GGCCGTCG TGGGGTAT TGTCCCGC
665 666 667 668 669 670 671 672 673 674	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.03787 0.03786 0.03783 0.03783 0.03782 0.03776 0.03776 0.03776	GCTCGCGT CGGCCTCC GACGCCTC TTCAATGA CTCGTCGA GGCCGTCG TGGGGTAT TGTCCCGC CCTTCACT
665 666 667 668 669 670 671 672 673 674 675	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.03787 0.03786 0.03783 0.03783 0.03782 0.03776 0.03776 0.03776 0.03775	GCTCGCGT CGGCCTCC GACGCCTC TTCAATGA CTCGTCGA GGCCGTCG TGGGGTAT TGTCCCGC CCTTCACT ATATGTGA
665 666 667 668 669 670 671 672 673 674 675 676	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.03787 0.03786 0.03783 0.03783 0.03782 0.03776 0.03776 0.03775 0.03775 0.03774	GCTCGCGT CGGCCTCC GACGCCTC TTCAATGA CTCGTCGA GGCCGTCG TGGGGTAT TGTCCCGC CCTTCACT ATATGTGA CCGAACTC
665 666 667 668 669 670 671 672 673 674 675 676	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.03787 0.03786 0.03783 0.03783 0.03782 0.03776 0.03776 0.03775 0.03775 0.03775 0.03768	GCTCGCGT CGGCCTCC GACGCCTC TCAATGA CTCGTCGA GGCCGTCG TGGGGTAT TGTCCCGC CCTTCACT ATATGTAC CCGAACTC TCGGTIGCT CTGCTCACT TCTCCTCACT TCTCCTCACT TCTCTCACT TCTCTCACT
665 666 667 668 669 670 671 672 673 674 675 676	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.03787 0.03786 0.03783 0.03783 0.03782 0.03776 0.03776 0.03775 0.03775 0.03775 0.03768	GCTCGCGT CGGCCTCC GACGCCTC GACGCTCG TCGATGA GCCGTCG TGGGGTAT TGTCCCGC CCTTCACT ATATGTA CCGAACTC TGGTIGGT CCGACTC TCGTCTCACT TCTCTCTCCT TCTCTCTCCT TCTCTCTCCT TCTCTCTCCT TCTCTCTCCT TCTCTCTCTCT TCTCTCTCTCT TCTCTCTCTCT TC
665 666 667 668 669 670 671 672 673 674 675 676 677 678	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.03787 0.03786 0.03783 0.03783 0.03782 0.03776 0.03776 0.03775 0.03775 0.03775 0.03768	GCTCGCGT CGGCCTCC GACGCCTC GACGCTCG GCCGTCGA GCCGTCG TGGGGTAT TGTCCCGC CCTTCACT ATATGTA CCGAACTC TGGTIGGT CCGTCCCC CTGCTCACT ATATGTAC CCGACTC CTGCTCACC CAGCCGGG
665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.03787 0.03786 0.03783 0.03783 0.03776 0.03776 0.03776 0.03775 0.03774 0.03768 0.03768 0.03764 0.03761 0.03761	GCTCGCGT CGGCCTCC GACGCTCC GACGCTCC GACGCTCG GGCCGTCG TGGGGTAT TGTCCCGC CCTTCACT ATATGTGA CCGAACTC TGGTTGCT CTGCTCAC CGGCGGG GCCCGTCG GCCCGTCG GCCCGTCG GCCGGCGG
665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.03787 0.03786 0.03783 0.03783 0.03776 0.03776 0.03775 0.03775 0.03775 0.03764 0.03764 0.03764 0.03764 0.03764	GCTCGCGT CGGCCTCC GACGCTCC GACGCTCC GACGCTCG GGCGTCG TGGGGTAT TGTCCCGC CCTTCACT ATATGTGA CCGAACTC TGGTGCT CTGCTCAC CAGGCGGG GCCCGTCG GCCCGTCG CCCGTCG CCCGCGCG CCCGCGCG
665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.03787 0.03786 0.03783 0.03783 0.03776 0.03776 0.03775 0.03775 0.03774 0.03768 0.03768 0.03761 0.03755 0.03757	GCTCGCGT CGGCCTCC GACGCCTC GACGCTCG GCCGTCG GCCGTCG TGGGGGTAT TGTCCCGC CCTTCACT ATATGTA CCGAACTC TGGTTGA CCGACCC CTGCTCAC CAGGCGGG GCCCGTCA CAGGCGGG GCCGTCA CAGGCGGG GCCAGTCA CACGAGAC GCAGAGAC GCAGAGAC GCAGAGAC GCAGAGAC
665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.03787 0.03788 0.03783 0.03783 0.03776 0.03776 0.03775 0.03775 0.03774 0.03768 0.03764 0.03761 0.03765 0.03755	GCTCGCGT CGGCCTCC GACGCCTC GACGCTCG GCCGTCG GCCGTCG TGGGGTAT TGTCCCGC CCTTCACT ATATGTGA CCGAACTC TGGTTGCT CTGCTCAC CAGGCGGG GCCCGTCG GCGGGCAT CACGAGACC CACGAGACC CACGAGACC CTGCTGCCC CACGAGACC CTGCTGCCC CCGCGGCCTCC CACGAGACC CACGAGACC CTGCTGCCC CTGCTGCC
665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.03787 0.03786 0.03783 0.03783 0.03776 0.03776 0.03775 0.03775 0.03774 0.03768 0.03764 0.03764 0.03765 0.03755 0.03755	GCTCGCGT CGGCCTCC GACGCCTC GACGCTCC GACGCTCG GCCGTCG TGGGGTAT TGTCCACT ATATGTGA CCGAACTC TGGTTGCT CTGCTCACT CAGCCGGG GCCGTCG GCGGCGTCG GCGGCAT CAGCAGCCGC CCGCGCGC CCGCGCGCC CCGCGCGCC CCGCGCGCC CCGCGCGCC CCGCGCCC CCGCGCC
665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.03787 0.03786 0.03783 0.03783 0.03776 0.03776 0.03775 0.03775 0.03775 0.03764 0.03764 0.03765 0.03757 0.03757 0.03757	GCTCGCGT CGGCCTCC GACGCTCC GACGCTCC GACGCTCG TGGGGTAT TGTCCCGC CCTCCACT ATAIGTGA CCGAACTC TGGTTGCT CTGCTCACT TGGTTGCT CTGCTCACT CAGGCGGG GCCGTCG GCGGCAT CAGGACAT CCGAACTC CCGCTCG GCGGCAT CCGGCGCG GCCGTCG GCGGCAT CCGAGGCAT CCGAGGCAT CCGAGGGCAT CCGAGGGCC CCGAGGGCC AGGTCGTCC
665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.03787 0.03786 0.03783 0.03783 0.03776 0.03776 0.03775 0.03775 0.03774 0.03768 0.03764 0.03761 0.03755 0.03757 0.03757 0.03757	GCTCGCGT CGGCCTCC GACGCCTC GACGCTCG GACGCTCG GCCGTCG GGCCGTCG TGGGGGTAT TGTCCCGC CCTTCACT ATATGTGA CCGAACTC CAGGCGGG GCCGTCAC CAGGCGGG GCCGTCAC CAGGCGGCAT CAGGCGGCAT CAGGAGAC CCGAGGCC CTGCTGCTGCGGGCAT CAGGAGGC GCAAGGCC CGGAGGGC CGAGGGC GCAGGGC GCGAGGGC GCGAGGGC GCGTCGTG GGCTGGTG GGCTGGTG GGCTGGTG
665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.03787 0.03786 0.03783 0.03783 0.03776 0.03776 0.03775 0.03775 0.03775 0.03764 0.03764 0.03765 0.03757 0.03757 0.03757	GCTCGCGT CGGCCTCC GACGCTCC GACGCTCC GACGCTCG TCGGACGCTCG TGGGGTAT TGTCCCGC CCTCACT ATATGTA CCGAACTC ATATGTGA CCGACTC CTGCTCAC CAGGCGGG GCCGTCG GCGGGCAT CACGAGCC CACGAGCC CCGAGGC CCGC CCCC CCC CCC CCC CCCC CCC CCC CCC CCC CCC CCC CCC CCCC
665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.03787 0.03786 0.03783 0.03783 0.03776 0.03776 0.03775 0.03775 0.03775 0.03764 0.03764 0.03764 0.03765 0.03757 0.03757 0.03757 0.03757 0.03757 0.03757	GCTCGCGT CGGCCTCC GACGCTCC GACGCTCC GACGCTCC TCGATGA GCCGTCG TGGGGTAT TGTCCCGC CCTTCACT ATATGTGA CCGAACTC TGGTTGCT CTGCTCAC CAGCCGGG GCCGTCG CAGCCGGC CCGCGC CCGCGC CCGCGC CCGCGC CCGCGC CCGCGC CCGCGCG CCGCGC CCGCGCG CCGCG
665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 689 690 690 691	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.03787 0.03786 0.03783 0.03783 0.03776 0.03776 0.03775 0.03775 0.03775 0.03764 0.03768 0.03764 0.03765 0.03757 0.03757 0.03757 0.03757 0.03757 0.03757 0.03757 0.03757	GCTCGCGT CGGCCTCC GACGCCTC GACGCTCG GACGCTCG GCGGCTCG TGGGGGTAT TGTCCCGC CCTTCACT ATATGTGA CCGAACTC CAGGCGGG GCCGTCG CCTCAC CAGCCGCG CCTGCAC CAGGCGGG CCGTCAC CAGGCGGG CCGTCAC CAGGCGGG CCGTCAC CAGGCGGG CCGAGGGC CGGAGGGC CGAAGGC GCAAGGC GCAAGGC GCAAGGC GCAAGGC GCAAGGC GGCTGAC GGCGCTGT GAAAGCGA GGCGCTGCT CACGCGCTCC CGACGCC CACGCGCC CCGAGGGC CCGAGGCC CCGCGCGC CCGCGCC CCGCGCC CCGCGCC CCGCGCC CCGCCC CCGCCC CCCCC CCCCC CCCCC CCCCC CCCC CCCCC CCCC
665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 699 699 699 699 699 699	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.03787 0.03786 0.03783 0.03783 0.03776 0.03776 0.03775 0.03775 0.03775 0.03764 0.03768 0.03764 0.03761 0.03757 0.03757 0.03757 0.03757 0.03757 0.03757 0.03754 0.03754 0.03757 0.03757 0.03754 0.03754 0.03754 0.03754 0.03754 0.03754 0.03754 0.03754 0.03754 0.03754 0.03754 0.03754 0.03754 0.03754 0.03754	GCTCGCGT CGGCCTCC GACGCCTC GACGCTCG GACGCTCG GCCGTCG GCCGTCG TGGGGTAT TGTCCCGC CCTTCACT ATATGTGA CCGAACTC TGGTCAC CAGGCGGG GCCGTCAC CAGGCGGG GCCGTCAC CAGGCGGG GCCGTCAC CAGGCGGG GCCGTCAC CAGAGAC CAGAGGC GCGGGCAT GCGAGGCG GCGGGGCAT GGCTCGG GGGCTGCA GCTGCTAC CCGAGGCC CCGAGGGC GCGCAGGCC GCGCGCA GCTCGCAC CGAAGCCA CCACAGCC CCACAGGCC CCGAGGGC GCTCCTA CTTCATCG CCTGCTCC CGTGGGTC
665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 699 690 691 692 693	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.03787 0.03786 0.03783 0.03783 0.03776 0.03776 0.03776 0.03775 0.03775 0.03775 0.03764 0.03768 0.03764 0.03757 0.03757 0.03757 0.03757 0.03757 0.03757 0.03757 0.03757 0.03757 0.03757 0.03754 0.03754	GCTCGCGT CGGCCTCC GACGCCTC GACGCTCC GACGCTCC TCGATGA GCCGTCG TGGGGTAT TGTCCCGC CCTTCACT ATATGTGA CCGAACTC TGGTTGCA CAGGCGGG GCCGTCG GCGGGCAT CACGAGCC CCGAGGGC CCGAGGGC CCGAGGGC GCGATGGG GCCGTCG GCGAGGCC CGAGGGC CCGAGGGC CCGAGGGC CCGAGGGC CCGAGGCC CCGAGGGC CCGAGGCC CCGCGCC CCGAGGCC CCGCGCC CCGCGCC CCGCCC CCGCCC CCCCC CCCCC CCCCC CCCCC CCCCC CCCCC CCCC
665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 693	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.03787 0.03786 0.03783 0.03783 0.03776 0.03776 0.03775 0.03775 0.03775 0.03764 0.03761 0.03765 0.03755 0.03756 0.03756 0.03756 0.03757 0.03757 0.03757 0.03758 0.03757 0.03758 0.03759 0.03759 0.03759 0.03759 0.03754 0.03751 0.03754 0.03754 0.03754 0.03754 0.03754 0.03754 0.03754 0.03754 0.03754 0.03754	GCTCGCGT CGGCCTCC GACGCTCC GACGCTCC GACGCTCC GACGCTCG TGGGGTAT TGTCACT ATATGTGA CCGAACTC ATATGTGA CCGAACTC TGGTTGCT CTGCTCACT ATATGTGA CCGAACTC TGGTTGCT CAGGCGGG GCCGTCG GCGGGCAT CACGAGACC CGCAGGGG GCCGTGGT GGAAGCCG GGAAGCCG GGAAGCCG GGAAGCCG GGAAGCGA GGCTGGT GAAAGCGA GGCTGGT GAAAGCGA GGCTGGT GAAAGCGA GGCTGGT CTCATCG GCGGGGT ATTAGCCG GCTGCCG CGGGGCTGAC CTTCATCG CTTCATCG CTTCATCG GCTGCCG CCTGCCGG CCTGCCGG CCTGCCGG
665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 687 688 689 690 691 692 693 694 695	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.03787 0.03786 0.03783 0.03783 0.03776 0.03776 0.03775 0.03775 0.03775 0.03764 0.03768 0.03764 0.03757 0.03757 0.03757 0.03757 0.03757 0.03757 0.03757 0.03757 0.03757 0.03754 0.03748	GCTCGCGT CGGCCTCC GACGCCTC GACGCTCG GACGCTCG GCGCGTCG TGGGGGTAT TGTCCCGC CCTTCACT ATATGTGA CCGAACTC CAGGCGGG GCCGTCG GCGGCGT CAGGCGGC CCGTCAC CAGGCGGG GCCGTCAC CAGGCGGG GCCGTCAC CAGGCGGG CCGAGGGC CGGAGGCC GAAAGCGA GCGGGCTGA GGCTGGT GAAAGCGA GCGGGCTGA CGCGGCTGC GAAAGCGA GCGGGCTGA CGCGGCGCAC CGGGGCTGA CGCGCGCGCAC CGGGCGCAC CGGGCGCAC CGCGCGCAC CGCGCGCAC CGCGCGCAC CGCGCCGCAC CGCGCGCAC CGCGCCGCAC CGCGCCGCAC CGCGCCGCAC CGCGCCGCAC
665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 687 688 689 690 691 692 693 694 695 696	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.03787 0.03786 0.03783 0.03783 0.03776 0.03776 0.03775 0.03775 0.03775 0.03764 0.03768 0.03764 0.03761 0.03757 0.03753 0.03757 0.03753	GCTCGCGT CGGCCTCC GACGCCTC GACGCTCG GACGCTCG GCGCTCG GGCGTCG GGCGGTCG TGGGGGTAT TGTCCCGC CCTCACT ATATGTA CCGAACTC TGGTTGCA CAGGCGGG GCCGTCAC CAGGCGGG GCCGTCAC CAGGCGGG GCGGGCAT GGTGCT GAAAGCG GCAAGGC GCAAGGC GCGGCTGA GGCTGGT GAAAGCGA GGCTGGT GAAAGCGA GGCTGCT CGTGCTCAC CTGCTGCG GGGCTGA GGCTGGT GAAAGCGA GGCTGGT CGTGCTCAC CTGCTGCG CGTGCGCG CGTGCGCG CGGGCGCG ATTAGCCG GCGCGCGCG GCGCGCGCGCGCGCGCGCGCGCGC
665 666 667 668 669 670 671 672 673 674 675 676 677 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.03787 0.03786 0.03783 0.03783 0.03776 0.03776 0.03775 0.03775 0.03775 0.03775 0.03761 0.03761 0.03756 0.03756 0.03756 0.03757 0.03757 0.03757 0.03757 0.03757 0.03757 0.03757 0.03757 0.03757 0.03757 0.03753 0.03753 0.03753 0.03753 0.03753 0.03753 0.03753 0.03753	GCTCGCGT CGGCCTCC GACGCTCC GACGCTCC GACGCTCC TCGATCGA GCCCTCG GCGCGTCG TGGGGTAT TGTCCCGC ATATGTA CCGAACTC ATATGTA CCGAACTC ATAGTGA CCGACCGC GCGGGCAT GGGGTAT TGTCCCC CAGGCGGG GCCGTCG GCGGGCAT CACGAGCC CCGAGGGC CCGAGGGC GCGGCTCG GCGGCTCG GCGGCTCG GCGGCTCG GCGGCTCG GCGGCCGC GCGCCGC GCGCCGC GCGCCCGC GCGCCCC GCGCCCCC GCGCCCC GCGCCCC CCGCCCC GCGCCCC GCGCCCC CCGCCCC CCGCCCC CCCCCC
665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 687 688 689 690 691 692 693 694 695 696	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.03787 0.03786 0.03783 0.03783 0.03776 0.03776 0.03775 0.03775 0.03775 0.03764 0.03768 0.03764 0.03761 0.03757 0.03753 0.03757 0.03753	GCTCGCGT CGGCCTCC GACGCTCC GACGCTCC GACGCTCC TCGATCGA GCCCTCG GCGCGTCG TGGGGTAT TGTCCCGC ATATGTA CCGAACTC ATATGTA CCGAACTC ATAGTGA CCGACCGC GCGGGCAT GGGGTAT TGTCCCC CAGGCGGG GCCGTCG GCGGGCAT CACGAGCC CCGAGGGC CCGAGGGC GCGGCTCG GCGGCTCG GCGGCTCG GCGGCTCG GCGGCTCG GCGGCCGC GCGCCGC GCGCCGC GCGCCCGC GCGCCCC GCGCCCCC GCGCCCC GCGCCCC CCGCCCC GCGCCCC GCGCCCC CCGCCCC CCGCCCC CCCCCC
665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 690 691 692 693 694 695 696 697 698	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.03787 0.03786 0.03783 0.03783 0.03776 0.03776 0.03776 0.03775 0.03775 0.03775 0.03764 0.03768 0.03761 0.03755 0.03756 0.03757 0.03753	GCTCGCGT CGGCCTCC GACGCCTC GACGCTCC GACGCTCG GACGCTCG TCGGTCGA GGCCGTCG TGGGTGG CCTTCACT ATATGTGA CCGAACTC CTGCTCAC CGCGCGG GCCGTCG GCGGCGAT CACGAGCGC CCGTCG GCGGCAT CACGAGCGC AGGTCGTC GAAAGCGA GCCTGCG GCGGCTCG GCGGCTCG GCGCTCG GAAGCCGC GGGCGCG GGCTCGA GCCCGCGC GGGCGCG GGCCGCG GGCCGCG GCCCGCG CCCGCGCG CCCGCGCG AGCCGCG CCCGCGGAT ACCCGAAT
665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 687 688 690 691 692 693 694 695 696 697	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.03787 0.03786 0.03783 0.03783 0.03776 0.03776 0.03775 0.03775 0.03775 0.03764 0.03764 0.03764 0.03765 0.03757 0.03753 0.03753 0.03748	GCTCGCGT CGGCCTCC GACGCCTC GACGCTCC GACGCTCG GACGCTCG TCGGTCGA GGCCGTCG TGGGTGG CCTTCACT ATATGTGA CCGAACTC CTGCTCAC CGCGCGG GCCGTCG GCGGCGAT CACGAGCGC CCGTCG GCGGCAT CACGAGCGC AGGTCGTC GAAAGCGA GCCTGCG GCGGCTCG GCGGCTCG GCGCTCG GAAGCCGC GGGCGCG GGCTCGA GCCCGCGC GGGCGCG GGCCGCG GGCCGCG GCCCGCG CCCGCGCG CCCGCGCG AGCCGCG CCCGCGGAT ACCCGAAT

974	8mer	0.032903	ATCGGTCC
975	8mer	0.032903	CGTACCAA
976	8mer	0.032903	ATCCCGTA
977	8mer	0.032903	CCCGTACC
978	8mer	0.032903	CGGAACCC
979	8mer	0.032903	ATCGTCCG
980	8mer	0.032903	TTTGTCCG
981	8mer	0.032903	TCGCGCTA
982	8mer	0.032903	TACCCGCA
983	8mer	0.032903	CGACGGAC
984	8mer	0.032903	ACTCGCCG
985	8mer	0.032903	CGGCACGA
986	8mer	0.032903	TGCGACGA
987	8mer	0.032903	TGTGCGAC
988	8mer	0.032903	CGCGGATC
989	8mer	0.032903	GTCGGCGG
990	8mer	0.032903	CGAGGCGT
991	8mer	0.032869	CGGGGTGG
992	8mer	0.032866	CCCCGAAG
993	8mer	0.032861	CTCACTGC
994	8mer	0.032859	GGACGACT
995	8mer	0.032837	AAACCGCT
996	8mer	0.03282	GACCATTA
997	8mer	0.03279	GGTTTCGC
998	8mer	0.032776	AGTCGGGA
999	8mer	0.032775	TGCCCGTC
1000	Triplet	0.032742	Triplet

TableS2 The top 1000 features in the optimal feature set of the lncLocPredtp58 according to F-score order

Order	Feature	F-score	kmer
1	5mer	0.118544	GGGCG
2	8mer	0.10931	TCCCAAAG
3	8mer		GCGGGGCG
4	8mer	0.106471	AACGGCCC
5	8mer	0.105616	CGGTGACG
6	8mer		CGGGTCAC
7	8mer	0.095685	TCACGGGA
8	8mer	0.09567	TGCGGTTC
9	8mer	0.09254	GGGGGACC
10	8mer	0.091784	CCACGACC

Order	Feature	F-score	kmer
351	8mer	0.04707	CGACCCGG
352	8mer	0.04705	GCGCCGTG
353	8mer	0.04699	TGCGTCAA
354	8mer	0.04697	TGGACAGC
355	8mer	0.04696	TCGTCAAC
356	8mer	0.0469	CACGGGAG
357	8mer	0.0468	ACGACCCG
358	8mer	0.04677	TATCCAGT
359	8mer	0.04677	GGTCATCG
360	5mer	0.04676	CCGCA

Order	Feature	F-score	kmer
701	8mer	0.037947	TGCGCCGA
702	8mer	0.037943	GCAAACGT
703	8mer	0.037942	CCGGGAAC
704	8mer	0.037932	TGGCCAGG
705	8mer	0.037889	CGAATGAT
706	8mer	0.037866	ACGCGACA
707	8mer		GACGCGAC
708	8mer	0.037866	TGTCGACC
709	8mer	0.037866	TAAACCGC
710	8mer	0.037866	GCTCGCGT

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	11	8mer		CGCCCCGG		8mer	0.04676	ACGCAGGG
	12	5mer	0.090816	GCCGG	362	8mer	0.04671	CGCGCCGT
	13	8mer	0.09051	TCAACGTC	363	8mer	0.04669	CTCCCAAA
	14	8mer	0.088855	CGAAGTCG	364	8mer	0.04666	CGGGGCGG
	15	8mer	0.088667	CGGGGGAC	365	8mer	0.04664	TTATGTCG
	16	8mer	0.08771	ATGGGGCG	366	8mer	0.04664	GCGCAGCA
	17	8mer	0.087693	TCGGCCCC	367	8mer	0.04654	GACCGCGA
	18	8mer	0.087595	AGCGGAGC	368	8mer	0.04648	AGAAGCGG
	19	8mer	0.087322	AATCGACG	369	5mer	0.04647	AGGGC
	20	8mer	0.085901	GCTCACGG	370	8mer	0.04643	ATCGCCGA
	21	8mer	0.084716		371	8mer	0.04641	TGTCCGGT
	22	8mer	0.084641		372	8mer	0.04636	AGCAGTCC
	23	8mer	0.083424	CCGCAGTT	373	8mer	0.04628	AGCTCGGC
-	24	8mer	0.082921	GCGGAGCC	374	8mer	0.04623	TCTGGTAT
-	25		0.081369		375	8mer	0.04622	CGGGCACT
-		8mer					0.0462	
	26	8mer	0.079854	AGTAGGAC	376	8mer		GTTAATTT
	27	8mer	0.079681	CCCAAAGT	377	8mer	0.04614	CAGGACGA
	28	8mer	0.079471		378	8mer	0.04611	GGTCGGGC
	29	5mer	0.078959	CGCCG	379	8mer	0.04606	CGGGGCCA
	30	8mer	0.078261	GGGATGCG	380	8mer	0.04603	CGCCCGAG
	31	8mer	0.077741	GATCCCGA	381	8mer	0.04599	TCGCCCTC
	32	8mer	0.077287	GCGTGAGC	382	8mer	0.04596	GGCGGGGC
	33	8mer	0.077177	CGGGCGGG	383	8mer	0.04584	CCCTGGGC
	34	8mer	0.077057	GCGGGGGA	384	8mer	0.04582	CGCCGGAA
	35	8mer	0.076646	AGACGGCG	385	8mer	0.04581	ATCTTAAT
	36	8mer	0.075641	CTTGTATC	386	8mer	0.04574	CCGCGAAC
	37	8mer	0.07546	CTTAAACC	387	8mer	0.0456	TAAGGGCT
	38	8mer	0.075416	GAGCCCGA	388	8mer	0.04557	CGACCTCC
	39	8mer	0.07508	CGTAGCTT	389	8mer	0.04555	ACGCTCGT
-	40	5mer	0.074635	CCCGC	390	8mer	0.04554	CGCGGGCA
-	41	8mer	0.074414	CCCCGAA	391	8mer	0.04554	GCGCCAAT
<u> </u>								
-	42	5mer	0.073675	CGCCACCT	392	Triplet	0.04548	Triplet
-	43	8mer	0.073205	GGCGAGGT	393	8mer	0.04545	GACCCGGC
-	44	8mer	0.073205	CCGCACCG	394	8mer	0.04545	GGCTGATG
	45	8mer	0.072737	CGCAGCGT	395	8mer	0.0454	GCACAATT
	46	8mer	0.072567	CATCGCGG	396	5mer	0.04534	CGGCC
	47	8mer	0.072132		397	8mer	0.04529	GGTTGCTA
	48	8mer	0.072036	CCCGTTTC	398	8mer	0.04526	TGTTTACG
	49	8mer	0.072034	GTGCGTGA	399	8mer	0.04524	AGGGCGCA
	50	8mer	0.071804	GGATGCGG	400	8mer	0.04523	TAGGCATT
	51	5mer	0.071377	CGAGA	401	8mer	0.04521	CCGAAGTC
	52	8mer	0.070518	AAGGGGCG	402	8mer	0.04521	CGTACATT
	53	8mer	0.07038	CCGAAGGC	403	8mer	0.0452	CGCGTACA
	54	8mer	0.069523	CCTGTGTT	404	8mer	0.04518	CCATCGGT
	55	8mer	0.069495	GTGGAAGA	405	8mer	0.04515	CGAGACCA
	56	8mer	0.068895	ATCCCGAA	406	8mer	0.04515	CCGGACTT
	57	8mer	0.068761	CTTGAACC	407	8mer	0.04512	ATGTCGGC
	58	8mer	0.068296	ACGAGCCC	408	8mer	0.04507	CTAGCGGA
	59	8mer	0.068213		409	8mer	0.04506	TCGACGAA
	60	8mer	0.068069		410	8mer	0.04506	GGGCGCGG
-	61	8mer	0.068033		411	8mer	0.04300	CCCCTTAT
	62		0.067987	GACCATCG	412	8mer		
		8mer					0.04495	GGCAGAAA
	63	8mer	0.067781	ACGAATCA	413	8mer	0.04493	GTTGCTAT
	64	8mer	0.067781		414	8mer	0.04492	GGTTGGTC
	65	8mer		TAACCGCC	415	8mer	0.04491	ACCGTGCC
	66	8mer		GTCGACCG		8mer	0.04484	ACGCCTCG
	67	8mer		CGAGTCGG	417	8mer	0.04481	CGTGTTAC
	68	8mer	0.067781		418	8mer	0.0448	ATGCGCGA
	69	8mer		ATGCGGGG		8mer	0.04471	CTTTCGTC
	70	8mer	0.067692			SC-PseDNC	0.04466	SC-PseDNC
	71	8mer	0.067483	GCGTGCTC	421	8mer	0.04457	GGGGCGCG
	72	8mer	0.067415		422	8mer	0.0445	ACCGCGAA
	73	5mer	0.067361	GGAGG	423	8mer	0.04444	GGGGATAT
	74	8mer		GGAATCCG	424	8mer	0.0444	TTTGTCTC
	75	8mer	0.067199		425	8mer	0.0444	AGATTGCG
	76	8mer	0.067076		426	8mer	0.04432	CGAGAATC
	77	8mer	0.066653		427	5mer	0.0443	GGCGT
	78	8mer	0.066595		428	8mer	0.04426	CAGTTCGG
			_		429	8mer	0.04423	ATCGACGA
	79	8mer	0.066489	GGCCCGTG				
	79 80		0.066489	GCGGATCT	430	8mer	0.04422	CACGGCAA
	80	8mer	0.066467	GCGGATCT		8mer 5mer		
	80 81	8mer 8mer	0.066467 0.06636	GCGGATCT GGGCCCCT	431	5mer	0.0442	TCGCG
	80 81 82	8mer 8mer 8mer	0.066467 0.06636 0.06628	GCGGATCT GGGCCCCT CCTGGGCC	431 432	5mer 8mer	0.0442 0.04419	TCGCG ACCCCCGA
	80 81 82 83	8mer 8mer 8mer 8mer	0.066467 0.06636 0.06628 0.066234	GCGGATCT GGGCCCCT CCTGGGCC GACGAATC	431 432 433	5mer 8mer 8mer	0.0442 0.04419 0.04418	TCGCG ACCCCCGA CGAGAGCT
	80 81 82 83 84	8mer 8mer 8mer 8mer 8mer	0.066467 0.06636 0.06628 0.066234 0.066039	GCGGATCT GGGCCCCT CCTGGGCC GACGAATC AACGTCGG	431 432 433 434	5mer 8mer 8mer 8mer	0.0442 0.04419 0.04418 0.04415	TCGCG ACCCCCGA CGAGAGCT GCGACTCG
	80 81 82 83 84 85	8mer 8mer 8mer 8mer 8mer 5mer	0.066467 0.06636 0.06628 0.066234 0.066039 0.065994	GCGGATCT GGGCCCCT CCTGGGCC GACGAATC AACGTCGG CCGCC	431 432 433 434 435	5mer 8mer 8mer 8mer 8mer	0.0442 0.04419 0.04418 0.04415 0.0441	TCGCG ACCCCGA CGAGAGCT GCGACTCG CCGCTGGT
	80 81 82 83 84 85	8mer 8mer 8mer 8mer 8mer 5mer 5mer	0.066467 0.06636 0.06628 0.066234 0.066039 0.065994 0.065986	GCGGATCT GGGCCCCT CCTGGGCC GACGAATC AACGTCGG CCGCC CGGGG	431 432 433 434 435 436	5mer 8mer 8mer 8mer 8mer 8mer	0.0442 0.04419 0.04418 0.04415 0.0441 0.04408	TCGCG ACCCCCGA CGAGAGCT GCGACTCG CCGCTGGT ACTGCTCA
	80 81 82 83 84 85 86	8mer 8mer 8mer 8mer 8mer 5mer 5mer 8mer	0.066467 0.06636 0.06628 0.066234 0.066039 0.065994 0.065986 0.06574	GCGGATCT GGGCCCCT CCTGGGCC GACGAATC AACGTCGG CCGCC CGGCG TTATGCGG	431 432 433 434 435 436 437	5mer 8mer 8mer 8mer 8mer 8mer 8mer	0.0442 0.04419 0.04418 0.04415 0.0441 0.04408 0.04407	TCGCG ACCCCGA CGAGAGCT GCGACTCG CCGCTGGT ACTGCTCA GAGCCCCG
	80 81 82 83 84 85 86 87	8mer 8mer 8mer 8mer 5mer 5mer 5mer 8mer 8mer	0.066467 0.06636 0.06628 0.066234 0.066039 0.065994 0.065986 0.06574	GCGGATCT GGGCCCCT CCTGGGCC GACGAATC AACGTCGG CCGCC CGGGG TTATGCGG CGACGAAT	431 432 433 434 435 436 437 438	5mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.0442 0.04419 0.04418 0.04415 0.0441 0.04408 0.04407 0.04403	TCGCG ACCCCGA CGAGAGCT GCGACTCG CCGCTGGT ACTGCTCA GAGCCCCG CCAAAGTG
	80 81 82 83 84 85 86 87 88	8mer 8mer 8mer 8mer 5mer 5mer 5mer 8mer 8mer	0.066467 0.06636 0.06628 0.066234 0.066039 0.065994 0.06574 0.06574 0.065703	GCGGATCT GGGCCCCT CCTGGGCC GACGAATC AACGTCGG CCGCC CGGGG TTATGCGG CGACGAAT GCGGTAAC	431 432 433 434 435 436 437 438 439	5mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.0442 0.04419 0.04418 0.04415 0.0441 0.04408 0.04407 0.04403 0.04392	TCGCG ACCCCGA CGAGAGCT GCGACTCG CCGCTGGT ACTGCTCA GAGCCCCG CCAAAGTG CCGCAGCG
	80 81 82 83 84 85 86 87 88 89	8mer 8mer 8mer 8mer 5mer 5mer 5mer 8mer 8mer 8mer 8mer	0.066467 0.06636 0.06628 0.066234 0.066039 0.065994 0.065986 0.06574 0.06574 0.065703	GCGGATCT GGGCCCT CCTGGGCC GACGAATC AACGTCGG CCGCC CGGGG TTATGCGG CGACGAAT GCGGTAAC CCTGGGCG	431 432 433 434 435 436 437 438 439 440	5mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.0442 0.04419 0.04418 0.04415 0.0441 0.04408 0.04407 0.04403 0.04392 0.04392	TCGCG ACCCCGA CGAGAGCT GCGACTCG CCGCTGGT ACTGCTCA GAGCCCCG CCAAAGTG CCGCAGCG CACCGCGCGC
	80 81 82 83 84 85 86 87 88 89 90	8mer 8mer 8mer 8mer 5mer 5mer 5mer 8mer 8mer 8mer 8mer 8mer	0.066467 0.06636 0.06628 0.066039 0.065994 0.06574 0.06574 0.065703 0.065606 0.065503	GCGGATCT GGGCCCCT CCTGGGCC GACGAATC AACGTCGG CCGCC CGGGG TTATGCGG CGACGAAT CCTGGGCG TTGTATCC	431 432 433 434 435 436 437 438 439 440 441	5mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.0442 0.04419 0.04418 0.04415 0.0441 0.04408 0.04407 0.04403 0.04392 0.04399 0.04389	TCGCG ACCCCGA CGAGAGCT GCGACTCG CCGCTGGT ACTGCTCA GAGCCCCG CCAAAGTG CCGCAGCG CACCGCGCGCGCGCGCGCCCCCC
	80 81 82 83 84 85 86 87 88 89 90 91	8mer 8mer 8mer 8mer 5mer 5mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.066467 0.06636 0.06628 0.066039 0.065994 0.06574 0.06574 0.06570 0.065606 0.065503 0.065503	GCGGATCT GGGCCCCT CCTGGGCC GACGAATC AACGTCGG CCGCC CGGGG TTATGCGG CGACGAAT GCGGTAAC CCTGGGCG TTGTATCC TGGTCTCG	431 432 433 434 435 436 437 438 439 440 441	5mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.0442 0.04419 0.04418 0.04415 0.0441 0.04408 0.04407 0.04403 0.04392 0.04399 0.04389 0.04387	TCGCG ACCCCGA CGAGAGCT CGCACTCG CCGCTGGT ACTGCTCA GAGCCCCG CCAAAGTG CCGCAGCG GCCCCGGGCCCGG
	80 81 82 83 84 85 86 87 88 89 90	8mer 8mer 8mer 8mer 5mer 5mer 5mer 8mer 8mer 8mer 8mer 8mer	0.066467 0.06636 0.06628 0.066039 0.065994 0.06574 0.06574 0.065703 0.065606 0.065503	GCGGATCT GGGCCCCT CCTGGGCC GACGAATC AACGTCGG CCGCC CGGGG TTATGCGG CGACGAAT GCGGTAAC CCTGGGCG TIGTTATCC TGGTCTCC CCACTGCA	431 432 433 434 435 436 437 438 439 440 441 441 442 443	5mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.0442 0.04419 0.04418 0.04415 0.0441 0.04408 0.04407 0.04403 0.04392 0.04399 0.04389	TCGCG ACCCCGA CGAGAGCT GCGACTCG CCGCTGGT ACTGCTCA GAGCCCCG CCAAAGTG CCGCAGCG CACCGCGCGCGCGCGCGCCCCCC
	80 81 82 83 84 85 86 87 88 89 90 91	8mer 8mer 8mer 8mer 5mer 5mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.066467 0.06636 0.06628 0.066039 0.065994 0.06574 0.06574 0.06570 0.065606 0.065503 0.065503	GCGGATCT GGGCCCCT CCTGGGCC CGGGC CGGCG CGGCG TTATGCGG CCGACGAAT GCGGTAAC CCTGGGCG TTGTATCC TGGTCTCG CCACTGCAC CCACTGCAC CCACTGCAC CCACTGCAC CGACAGGA	431 432 433 434 435 436 437 438 449 440 441 442 443	5mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.0442 0.04419 0.04418 0.04415 0.0441 0.04408 0.04407 0.04403 0.04392 0.04399 0.04389 0.04387	TCGCG ACCCCGA CGAGAGGT GCGACTCG ACTGCTCA GAGCCCCG CCAAAGTG CCACAGGG GCCCCGG GCCCCGG CCAAAGTAC
	80 81 82 83 84 85 86 87 88 89 90 91 92	8mer 8mer 8mer 8mer 5mer 5mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.066467 0.06636 0.066234 0.066039 0.065994 0.06574 0.06574 0.065703 0.065606 0.065523 0.0655484 0.0654447	GCGGATCT GGGCCCCT CCTGGGCC CGGGC CCGCC CGGGG TTATGCGG CGACGAAT GCGGTAAC CCTGGGCG TIGTATCC CTGGCC CTGGCC CTGGCC CCGCC CGCC C	431 432 433 434 435 436 437 438 439 440 441 441 442 443	5mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.0442 0.04419 0.04418 0.04415 0.0441 0.04408 0.04407 0.04403 0.04392 0.0439 0.04389 0.04387 0.04382	TCGCG ACCCCCGA CGAGAGCT GCGACTCG CCGCTGGT ACTGCTCA GAGCCCCG CCAAAGTG CCGCAGGG CACCGCGG GCCCCTGA CACAGGGG CAAAGTAC GAGGGCCCTGA
	80 81 82 83 84 85 86 87 88 89 90 91 92 93	8mer 8mer 8mer 8mer 5mer 5mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.066467 0.06636 0.066234 0.066039 0.065994 0.06574 0.065703 0.065503 0.065404 0.065447	GCGGATCT GGGCCCCT CCTGGGCC GACGAATC AACGTCGG CCGCC CGGGG TTATGCGG CGACGAAT GCGGTAAC CCTGGGCG TTGTATCC TGGTCTCG CCACTGCA CCACTGCA CCACTGCA CCACTGCA CATGCAC	431 432 433 434 435 436 437 438 449 440 441 442 443	5mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.0442 0.04419 0.04418 0.04415 0.0441 0.04407 0.04407 0.04392 0.0439 0.04389 0.04387 0.04381	TCGCG ACCCCGAAGCTC CGAGACTCG CCGCTGGT ACTGCTCA GAGCCCCG CCACAGCG CCGCCGC GCCCCCG GCCCCCG GCCCCCG GCCCCGC GCCGCC
	80 81 82 83 84 85 86 87 88 99 90 91 92 93 94 95	8mer 8mer 8mer 8mer 5mer 5mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.066467 0.06636 0.066238 0.066234 0.0665994 0.06574 0.06574 0.065703 0.065606 0.065523 0.065447 0.065364 0.065247 0.065247	GCGGATCT GGGCCCCT CCTGGGCC CCTGGGCC AACGTCGG CCGCC CGGGG TTATGCGG CGACGAAT GCGGTAAC CCTGGGCG TTGTATCC TGGTCTCG CCACTGCA ATCCGCCG ATCCGCCA ATCCGCCG	431 432 433 434 435 436 437 438 439 440 441 442 443 444 445	5mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.0442 0.04419 0.04418 0.04415 0.04415 0.04407 0.04403 0.04392 0.04392 0.04387 0.04381 0.04381 0.04381	TCGCG ACCCCGAAGCTC CGACTCG CCGACTCG ACTGCTCA GAGCCCCG CCAAAGTG CCGCAGCG GCCCCGCG GCCCCGCG GCCCCGCG GCCCGCGG GCCCCGCG GGGGGTCG GCCGGACT
	80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96	8mer 8mer 8mer 8mer 5mer 5mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.066467 0.06636 0.066238 0.066234 0.066594 0.06574 0.06574 0.065703 0.065606 0.065523 0.065484 0.065247 0.065246 0.065246	GCGGATCT GGGCCCCT CCTGGGCC GACGAATC AACGTCGG CCGCC CGGGG TTATGCGG CGACGAAT GCGGTAAC CCTGGGCG TIGTATCC CCACTGCA CAACTCCG CAACTGCA CAACTCCG CAACTGCA CAACTGCA CAACTGCA CAACTGCA CAACTGCA CAACTGCAC CAACTGCA CAACTGCAC CAACTGCCCG GCGGG	431 432 433 434 435 436 437 438 439 440 441 441 442 443 444 445 446 447	5mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.0442 0.04419 0.04418 0.04415 0.04415 0.04407 0.04407 0.04403 0.04392 0.04392 0.04389 0.04381 0.04381 0.04381 0.04381 0.04379	TCGCG ACCCCGAACTCG CGACTCG CCGCTGGT ACTGCTCA GAGCCCCG CCAAAGTG CCGCAGCG GCCCCGC
	80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96	8mer 8mer 8mer 8mer 5mer 5mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.066467 0.06636 0.066234 0.066234 0.066986 0.06574 0.06574 0.065703 0.065606 0.065521 0.065241 0.065241 0.065211 0.064857	GCGGATCT GGGCCCCT CCTGGGCC CGGCC CGGCC CGGCG CGCGC CGGGG TTATGCGG CCGCC CGGGGTAAC CCTGGGCG TIGTATCC CCACTGCA CCACTGCA CATGACAC ATCCGCCG TGCGGG TGTCGGTA	431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448	5mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.0442 0.04419 0.04418 0.04415 0.04415 0.04407 0.04407 0.04403 0.04403 0.04403 0.04392 0.04381 0.04381 0.04381 0.04379 0.04379	TCGCG ACCCCGGA CGAGGCT CGAGGCCCGG CCGCTGGT ACTGCTCA GAGCCCCG CCACAGGG CCACAGGG CACCGCGG GCCGCGGC GCCGCGGC GCCGGGGGGGG
	80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97	8mer 8mer 8mer 8mer 5mer 5mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.066467 0.06636 0.066234 0.066039 0.065994 0.06574 0.06574 0.065703 0.065523 0.065487 0.065447 0.065246 0.065247 0.065247 0.065247 0.065247	GCGGATCT GGGCCCCT CCTGGGCC CGGGC CGGCG TTATGCGG TGGGTAAC CCTGGGCG TTGTATCC TGGTCTCG CGACGAAT GCGTAAC CCTGGGCG TTGTATCC CCACTGCA CGACAGAA CATGCACAC ATCACAC TGCGCG TGTCTCG CACTGCA CGACAGGA CATGACAC ATCACAC TTCGGCG TGTCGCG	431 432 433 434 435 436 437 438 449 440 441 442 443 444 445 446 447 448 449	5mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.0442 0.04419 0.04418 0.04415 0.04415 0.04407 0.04407 0.04392 0.04389 0.04382 0.04381 0.04379 0.04379	TCGCG ACCCCGAA CGAGAGCT GCGACTCG CCGCTGGT ACTGCTCA GAGCCCCG CCAAAGTG CCGCAGG GCCCCGG GCCCCGGACT GCCGCGGACT GCCCGGACT ACCTAGAC
	80 81 82 83 84 85 86 87 88 90 91 92 93 94 95 96 97 98	8mer 8mer 8mer 8mer 5mer 5mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.066467 0.06636 0.066238 0.066234 0.0665994 0.065994 0.06574 0.06574 0.065703 0.065606 0.065523 0.065447 0.065247 0.065247 0.065247 0.065241 0.065211 0.064857	GCGGATCT GGGCCCCT CCTGGGCC CCTGGGCC AACGTCGG CCGCC TATGCGG CGACGAAT GCGACGAAT GCGTAAC CCTGGGCG TTGTATCC TGGTCTCG CCACTGCA ATCCGCCG GCGGG TGTCGGCG TGTCGGCG TGTCGCCG GCGGG TGTCGGCG GCGGG TGTCGGTACCC GCACTGCAC	431 432 433 434 435 436 437 438 440 441 442 443 444 445 446 447 448 449	5mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.0442 0.04419 0.04415 0.04415 0.04415 0.04407 0.04403 0.04392 0.04387 0.04381 0.04381 0.04379 0.04379 0.04377 0.04375	TCGCG ACCCCGA ACCCCGA ACCCCGGA CGAGAGCT CGAGCTCG ACTGCTCA GAGCCCCG CCACAGCG CCACAGCG GCCCCGC GCCCCGC GCCCCGC GCACGCGC GCACGC
	80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97	8mer 8mer 8mer 8mer 5mer 5mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.066467 0.06636 0.066234 0.066039 0.065994 0.06574 0.06574 0.065703 0.065523 0.065487 0.065447 0.065246 0.065247 0.065247 0.065247 0.065247	GCGGATCT GGGCCCCT CCTGGGCC CGGGC CGGCG TTATGCGG TGGGTAAC CCTGGGCG TTGTATCC TGGTCTCG CGACGAAT GCGTAAC CCTGGGCG TTGTATCC CCACTGCA CGACAGAA CATGCACAC ATCACAC TGCGCG TGTCTCG CACTGCA CGACAGGA CATGACAC ATCACAC TTCGGCG TGTCGCG	431 432 433 434 435 436 437 438 449 440 441 442 443 444 445 446 447 448 449	5mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.0442 0.04419 0.04418 0.04415 0.04415 0.04407 0.04407 0.04392 0.04389 0.04382 0.04381 0.04379 0.04379	TCGCG ACCCCGAA CGAGAGCT GCGACTCG CCGCTGGT ACTGCTCA GAGCCCCG CCAAAGTG CCGCAGG GCCCCGG GCCCCGGACT GCCGCGGACT GCCCGGACT ACCTAGAC

712 8mer 0.037833 GACGCTC 713 8mer 0.037833 TCAATGE 714 8mer 0.037764 GGCCGTCC 715 8mer 0.037757 TGGGCTAT 717 8mer 0.037755 TGGGCCGTC 718 8mer 0.037755 TGGGCCATC 718 8mer 0.037755 TGGCCCGC 718 8mer 0.037756 CCTTCACT 719 8mer 0.037768 CCGAACTC 720 8mer 0.037698 TGCCC 721 8mer 0.037698 TGGCCC 722 8mer 0.037698 TGGCCC 722 8mer 0.037697 CTGCTCAC 724 8mer 0.037644 CAGGCGG 725 8mer 0.03761 GCCGAACTC 726 8mer 0.03761 GCCGACCT 727 8mer 0.037572 CACGAGACT 727 8mer 0.037572 CACGAGACT 728 8mer 0.037572 CACGAGACT 729 8mer 0.037572 CACGAGACT 729 8mer 0.037575 GCAATGCC 730 8mer 0.037561 CTGCTCCC 731 8mer 0.037517 GCAGTGCC 732 8mer 0.037517 GCAGTGCC 733 8mer 0.037517 GCAGTGCC 734 8mer 0.037516 GCGGGCA 735 8mer 0.037517 GCAGGGC 736 8mer 0.037518 GGGCTGTC 737 8mer 0.037503 GGCTGCTC 737 8mer 0.037503 GGCTGCTC 738 8mer 0.037503 GGCTGCTC 739 8mer 0.037503 GGCTGCTC 739 8mer 0.037503 GGCTGCTC 740 8mer 0.037404 AGCCGGC 740 8mer 0.037404 AGCCGGC 741 8mer 0.037404 AGCCGGC 742 8mer 0.037394 GGGGCCGC 743 8mer 0.037394 GGGGCCGC 744 8mer 0.037395 CCCGTCTC 745 8mer 0.037395 CCCGTCTC 746 8mer 0.037395 CCCGTCTC 747 8mer 0.037391 ACCCGAAT 747 8mer 0.037391 ACCCGAAT 748 8mer 0.037311 ACCCGAC 749 8mer 0.037311 ACCCGAC 740 8mer 0.037311 ACCCGAC 741 8mer 0.037311 ACCCGAC 742 8mer 0.037311 ACCCGAC 743 8mer 0.037311 ACCCGAC 744 8mer 0.037311 ACCCGAC 745 8mer 0.037312 GCCTATGC 750 8mer 0.037213 ACCCGAC 751 8mer 0.037213 ACCCGAC 753 8mer 0.037213 ACCCGAC 754 8mer 0.037213 ACCCGAC 755 8mer 0.037313 ACCCGAC 756 8mer 0.037314 TCCGCCCC 757 8mer 0.03768 AGGAC 758 8mer 0.03768 ATTAGGGC 759 8mer 0.03768 ACGAC 750 8mer 0.03768 ACGAC 751 8mer 0.03768 ACGAC 752 8mer 0.03768 ACGAC 753 8mer 0.03768 ACGAC 755 8mer 0.03768 ACGAC 756 8mer 0.03768 ACGAC 757 8mer 0.03768 ACGAC 757 8mer 0.03768 ACGAC 757 8mer 0.03768 ACGAC 758 8mer 0.03768 ACGAC 759 8mer 0.03668 ACCAC 760 8mer 0.03669 ACGAC 771 8mer 0.03669 ACGAC 772 8mer 0.03669 ACGAC 773 8mer 0.03669 ACGAC 774 8mer 0.03669 ACGAC 775 8mer 0.03669 ACGAC 776 8mer 0.03669 ACGAC 777 8mer 0.03669 ACGAC 778 8mer 0.03669 ACG				
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795 8mer 0.036518 TAACGAGG 796 8mer 0.036479 TTCGGGGG 797 8mer 0.036471 CGGGTGGG 798 8mer 0.036463 CAATATAC 799 8mer 0.036425 TCGGCTGT 800 8mer 0.03639 CTATGTTG 801 8mer 0.036376 ACGCTCAT	773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790	8mer 8mer 8mer 8mer 8mer 5mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.036827 0.036785 0.036765 0.036755 0.036745 0.0366745 0.036678 0.036676 0.036676 0.036655 0.036619 0.036604 0.036576 0.036576 0.036576	AGGCTGGT GCGCGCGG GGTGCCGAA TITCCCGA GAATCCGG CCGACTIT GTAGTGGG GAGGG CAAAAAAA GCGACATC TICAAGGT TGTACGTT GTACGTT GTCGACCC GCGCCACT CTGGTATA CGTCAAGG GACTGCGA CAGGAC CAGGAC CAGGCAC CAGGCAC CAGGCAC CAGGCAC CAGGCAC CAGGCAC CAGCCAC CAGCCCAC CAGCCCAC CAGCCCAC CAGCCCCC CAC CA
796 8mer 0.036479 TTCGGGGC 797 8mer 0.036471 CGGGTGG 798 8mer 0.036463 CAATATAC 799 8mer 0.036425 TCGGCTGT 800 8mer 0.03639 CTATGTTG 801 8mer 0.036376 ACGCTCAT	773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.036827 0.036785 0.036765 0.036745 0.03679 0.036696 0.036678 0.036676 0.0366648 0.036699 0.036699 0.036576 0.036575 0.036575	AGGCTGGT GCGCGGG GCGCGGG GAATCCGG CCGACTIT GTAGTGGG GAGGG CAAAAAAA GCGACATC ACGGGTTC GTCGACCC GCGCACT GTCGACCC GCGCACT GTCAAGGT GTCAACG GAGTAGA CGTCAAGG CAGTAGGA CGGCCACT CTGGTATA CGTCAAGG GACTGCGA CGGCA CGGCACT CGGGA CGGCACT CGGGA CGGCACT CGGGA CGGCACT CGGGA CGGCACT CGGCACT CGGGA
797 8mer 0.036471 CGGGTGGC 798 8mer 0.036463 CAATATAC 799 8mer 0.036425 TCGGCTGT 800 8mer 0.03639 CTATGTTG 801 8mer 0.036376 ACGCTCAT	773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791	8mer 8mer 8mer 8mer 8mer 5mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.036827 0.036785 0.036765 0.036755 0.036745 0.036799 0.036678 0.036678 0.036676 0.036655 0.036629 0.036608 0.036608 0.036576 0.036576 0.036576 0.036576	AGGCTGGT GCGCGGG GTGCCGAA TITICCCGA GAATCCGG CCGACTITI GTAGTGGG GAGGG CAAAAAAA GCGACATC TICAAGGT TGTACGTT GTCGACCC GCGCACT CTGGACCA CGGCACT CTGGACCA CGGCACT CTGGACCA CGGCACT CTGGACCA CGGCACT CTGGACCA CGGCCACT CGGTATA CGTCAAGG ACGCCAC CGGGA CGGCAC CGGCAC CGGGA CGGCAC CGGCAC CGGCAC CGGCAC CGGCAC CGGCAC CGGCAC CGGCAC CGCAC CGGCAC CGGCAC CGGCAC CGGCAC CGGCAC CGGCAC CGGCAC CGGCCAC CGCAC CGGCAC CGGCAC CGCCAC CCCAC CGCCAC CCCC CGCCAC CGCCAC CGCCAC CGCCAC CGCCAC CGCCAC CGCCAC CGCCAC CGCCA
798 8mer 0.036463 CAATATAC 799 8mer 0.036425 TCGGCTG1 800 8mer 0.03639 CTATGTTG 801 8mer 0.036376 ACGCTCA1	773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792	8mer 8mer 8mer 8mer 8mer 5mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.036827 0.036785 0.036765 0.036755 0.036755 0.036795 0.036678 0.036678 0.036676 0.036655 0.036648 0.036619 0.036604 0.036597 0.036577 0.036577 0.036576 0.036578 0.036578 0.036578 0.036528 0.036528	AGGCTGGT GCGCGGG GTGCCGAA TITICCCGA GAATCCGG CCGACTITI GTAGTGGG GAGGG CAAAAAAA GCGACATC TICAAGGT TGTACGTT GTCGACCC GCGCACTT GTCGACCC GCGCACT CTGATATA CGTCAAGG CAGTAGGA CGGCACT CTGAAGGA CAGTAGGA CAGTAGGA CAGTAGGA CAGTAGGA CAGTAGGA TAACGAGG TAACGAGGG TAACGAGGG TAACGAGGG TAACGAGGG TAACGAGGG
799 8mer 0.036425 TCGGCTGT 800 8mer 0.03639 CTATGTTG 801 8mer 0.036376 ACGCTCAT	773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794	8mer 8mer 8mer 8mer 8mer 8mer 5mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.036827 0.036785 0.036765 0.036755 0.036745 0.036799 0.036676 0.036676 0.036676 0.036676 0.036655 0.036619 0.036576 0.036576 0.036576 0.036574 0.036528 0.036578	AGGCTGGT GCGCGCGG GGTGCCGAA TITCCCGA GAATCCGG CCGACTIT GTAGTGGG GAGGG CAAAAAAA GCGACATC TICAAGGT TGTACGTT GTACGTT GTACGTT GTCGACCC GCGCCACT CTGGTATA CGTCAAGG GACTGCGA CAGCCACT CTGCGACCC CAGCACT CTGCGACCC CAGCACT CTGCACCC CAGCCACT CTGCACCC CAGCCACT CTGCACCC CACCCACT CTGCACCC CACCCACT CTGCACCC CACCCACT CTGCACCC CACCCACT CTCACGACC CACCCACT CACCCCACT CACCCACT CACCCCACT CACCCACT CACCCCACT CACCCACT CACCCCACT CACCCACT CACCCCACT CACCCACT CAC
800 8mer 0.03639 CTATGTTG 801 8mer 0.036376 ACGCTCAT	773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.036827 0.036785 0.036765 0.036755 0.036745 0.036696 0.036696 0.036678 0.036678 0.0366648 0.036604 0.036604 0.036576 0.036576 0.036576 0.036575 0.036574 0.036528 0.036574 0.036574 0.036578	AGGCTGGT GCGCGCGG GGGCGCGG GAATCCGG CCGACTIT GTAGTGGG GAGGG CAAAAAAA GCGACATC TICAGGTTC TTCAGGTTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTATA CGTCAAGG GACTGCGACCC GCGCCACT CTGGTATA CGTCAAGG ACTGCGA CGGCCACT GAAGTCGG ATGCACGC TAACAGGC TAACAGGC CGGCACT TACGGCACCCCC GAAGTCGGC CGGCACT TACGGCACCCCCCCCCC
 	773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796	8mer 8mer 8mer 8mer 8mer 8mer 5mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.036827 0.036785 0.036765 0.036755 0.036745 0.036799 0.036696 0.036678 0.036676 0.036655 0.036649 0.036608 0.036576 0.036576 0.036576 0.036576 0.036578 0.036578 0.036578 0.036574 0.036578 0.036578 0.036574 0.036578	AGGCTGGT GCGCGCGG GGTGCCGAA TITCCCGA GAATCCGG CCGACTIT GTAGTGGG GAGGG CAAAAAAA GCGACATC TICAAGGT TGTACGTT GTACGTT GTACGTT GTCGACCC GCGCCACT CTGGTATA CGTCAAGG GACTGCGA CAGCCACT CTGCGACCC CAGCACT CTGCGACCC CAGCACT CTGCACCC CAGCCACT CTGCACCC CAGCCACT CTGCACCC CACCCACT CTGCACCC CACCCACT CTGCACCC CACCCACT CTGCACCC CACCCACT CTCACGACC CACCCACT CACCCCACT CACCCACT CACCCCACT CACCCACT CACCCCACT CACCCACT CACCCCACT CACCCACT CACCCCACT CACCCACT CAC
802 8mer 0.036373 GCGTTCTC	773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 798 799 791 792 793 794 795 796 797	8mer 8mer 8mer 8mer 8mer 5mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.036827 0.036785 0.036765 0.036755 0.036755 0.036799 0.036676 0.036676 0.036676 0.036655 0.036648 0.036619 0.036604 0.036596 0.036576 0.036576 0.036576 0.036578	AGGCTGGT GCGCGCGG GGTGCCGAA TITCCCGA GAATCCGG CCGACTIT GTAGTGGG GAGGG CAAAAAAA GCGACATC TICAAGGT TGTACGT GTACGTT GTACGTT GTACGTT GTACGTT GTCGACCC GCGCCACT CTGGTATA CGTCAAGG AGTGCGA CGGCCACT TAACGGA TGACACGC CAAATAGGA TCGGCGCCACT TAACGAGG TCACGGG TCACGGGCCACT TAACGAGG TTCGGCGGC CAATTACC CAATATAC CTCGCTGT CTATGTTG CTATGTTG
	773 774 775 776 777 778 779 780 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 800 801	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.036827 0.036785 0.036765 0.036755 0.036755 0.036799 0.036676 0.036676 0.036676 0.036655 0.036619 0.036604 0.036604 0.036576 0.036576 0.036576 0.036574 0.036578 0.036574 0.036574 0.036574 0.036574 0.036578 0.036578 0.036578 0.036578 0.036578 0.036578 0.036578 0.036578 0.036578 0.036578	AGGCTGGT GCGCGCGG GGGTGCCGAA TITCCCGA GAATCCGG CCGACTIT GTAGTGGG GAGGG CAAAAAAA GCGACATC TICAGGTTC TICAGGTTC GTGACCC GCGCCACT TGTACGTAGG GACTGGACCC GCGCCACT TGTACGTAGG GACTGCGA CGGCCACT TGTACGGACCC CGGCCACT TGTACGGACCC CGGCCACT CTGGTATA CGTCAAGG CGGCCACT TAACGGGA CGGCCAC TAACGAGG CGGCCAC TAACGAGG TTCGGGGG CCACT TCGGCTGT TCGGCTGT TCGGCTGT TCGGCTGT ACGCTCAT

103	8mer	0.063797	TGTGCGCC	453	8mer	0.04371	GGAACCTA	803	8mer	0.03628 GACGGCCT
104	8mer	0.063633	TGCGCCGT	454	8mer	0.04367	AAGGTGCC	804	8mer	0.036274 GAGGTCAT
105	8mer	0.063586		455	8mer	0.04364	TATTAGGG	805	8mer	0.036257 ACGGCCTG
106	8mer		AGGAGGGC	456	8mer	0.04363	CCCGAACT	806	8mer	0.036192 GTTATCTG
107	8mer	0.063417		457	8mer	0.04362	TTGTACGG	807	8mer	0.03619 CTACAGTA
108	8mer	0.063161		458	8mer	0.04358	CCGTGTCC	808	8mer	0.036189 TATAAGGT
100		0.063101		459		0.04352	CGCCTATA	809		0.036163 CGACTTTG
	8mer				8mer				8mer	
110	8mer	0.062931	ATACCGCC	460	8mer	0.04351	TATGTCGG	810	8mer	0.036153 TGAGCCGA
111	8mer	0.062913		461	8mer	0.0435	TACTGCCA	811	8mer	0.036139 CGTAGATA
112	8mer	0.062893		462	8mer	0.04347	TATAGCAC	812	8mer	0.036137 CTAAACCG
113	8mer	0.062656	ACCGGACT	463	8mer	0.04347	GGTTGCAG	813	8mer	0.036098 CTTGCGTC
114	8mer	0.06263	AGGTCGAG	464	8mer	0.04346	TTTGGCCA	814	8mer	0.036073 AATTATCC
115	8mer	0.062472	GAAACCCG	465	8mer	0.04342	CCGCGATT	815	8mer	0.036068 GAGCGACG
116	8mer	0.062448	TTGCCGGT	466	8mer	0.04336	GGTTGTTC	816	8mer	0.036049 GTCCAGAC
117	8mer	0.06233	TCAAGCAC	467	8mer	0.04334	GAGCGGGG	817	8mer	0.036048 CGGGGGCC
118	8mer	0.062312	CCAAGATC	468	8mer	0.04333	GAGGCCGT	818	8mer	0.036041 ACGCCCGA
119	8mer	0.062211	ATTGCCGG	469	8mer	0.04332	GTGTCGTA	819	5mer	0.036039 GGCCC
120	5mer	0.062101	CGGGC	470	8mer	0.0433	CTGCGAGT	820	8mer	0.036032 GGCGCCCG
121	8mer	0.061952	TCACGGTG	471	8mer	0.0433	CGGCCCCT	821	8mer	0.036022 GTTTCGCC
122	8mer	0.06195	GATGCGGA	472	8mer	0.04328	GCAGTTCG	822	8mer	0.036005 TCCTGGGC
123	5mer	0.061919	GCGCC	473	8mer	0.04326	TCCTGTGT	823	8mer	0.036004 TTGTTAAT
124	8mer	0.061771	GGCCCCTG	474	8mer	0.04325	GGGCGGTG	824	8mer	0.03599 CAGCCTCC
125	8mer		CGGGGCGA	475	8mer	0.04325	CCGTTTCC	825	8mer	0.035982 GGTGGCGC
126	8mer	0.061609	TCGTCCAA	476	8mer	0.0432	TCGTCGAA	826	8mer	0.035958 CGTTCAGG
127	8mer	0.061468		477	8mer	0.04319	TTGCGCCA	827	8mer	0.035936 CGAGTTCT
128	8mer		CGATGATA	478	8mer	0.04314	AGCATTGC	828	8mer	0.03593 CGCGCGGG
129	8mer	0.06132	GGGCGAGG	479	8mer	0.04314	ACGCGTAC	829	5mer	0.035879 GCGGA
130	8mer	0.061146	TCGGTACT	480	8mer	0.04313	CTTCCGCG	830	8mer	0.035852 ACCCGCGC
131	8mer	0.061133		481	5mer	0.04313	CCCGG	831	8mer	0.035833 ACCTCGAC
132	8mer	0.061067	GGGGTCGA	482	8mer	0.04312	GGGGCGGT	832	8mer	0.035761 CGAACAGA
132		0.061067	GCCCG	482		0.0431	ACCCGCAC	832		0.035756 CTGTCCCG
133	5mer 8mer			483	8mer 8mer	0.04309		833	8mer 8mer	
			TCAAGCGA				GAGCCCGG			0.035747 CTCCTGTG
135	8mer	0.060681	GGTCGTGG	485	8mer	0.04305	ATCCCGAC	835	8mer	0.035746 GGCTCACG
136	8mer	0.06066	GGAGGGGT	486	8mer	0.04304	GAACGAAT	836	8mer	0.035744 GACCTGGG
137	8mer	0.060619	CCTTCCGC	487	8mer	0.04297	CAGTACGT	837	8mer	0.035735 GAACTCGT
138	8mer	0.060596	ACTCCCCG	488	8mer	0.04296	CTTAAGTA	838	8mer	0.035724 ACTGCACG
139	8mer		CAAGCGAT	489	8mer	0.04296	GAGATACT	839	8mer	0.035716 GAGGGCCG
140	8mer		AGGGGATA	490	8mer	0.04295	CGTCGTCT	840	8mer	0.03568 ACCATTAA
141	8mer	0.060304		491	8mer	0.0429	GACGCGTA	841	8mer	0.035668 CAAGCGAA
142	8mer	0.060137	GCATTCGG	492	8mer	0.04287	GCACTCCA	842	8mer	0.035666 GCGGCCAA
143	8mer	0.060047	GGGCGCCC	493	8mer	0.04286	CGCGCGGC	843	8mer	0.035652 GCCATCTA
144	8mer	0.059996	TTGGGCGC	494	8mer	0.04285	TGCTTTTT	844	5mer	0.035632 ACCTC
145	8mer	0.059859	ATGCGGAT	495	8mer	0.04278	CCGGACTA	845	8mer	0.035597 GTCTAGGC
146	8mer	0.059776	GGGGCCTT	496	8mer	0.04275	ATTGCGCC	846	8mer	0.035581 ATCATTAT
147	8mer	0.059758	GCTTCGCC	497	8mer	0.04274	CGAGGTCT	847	8mer	0.035577 TGGGCCCC
148	8mer	0.059737	GTGTTACT	498	8mer	0.04273	CAGGCCAC	848	8mer	0.035562 TAACCGCG
149	8mer	0.059509	CCAACATG	499	8mer	0.04269	GATCCGGG	849	8mer	0.035558 GGCTGGGA
150	5mer	0.059434	GGCCG	500	8mer	0.04266	TCCTCCGT	850	8mer	0.035557 GTAAACAT
151	8mer	0.059376	GACCGCAA	501	8mer	0.04263	CTAAACAT	851	8mer	0.035551 CGTCCAGG
152	8mer	0.059293	TGCGGATC	502	5mer	0.04262	ACGGG	852	8mer	0.035506 CGGACTAG
153	8mer		CACGACCC	503	8mer	0.04261	CGGGCGAG	853	8mer	0.035482 GGACCTAG
154	5mer	0.059282	GTCGG	504	8mer	0.04251	CACAGATG	854	8mer	0.035439 TAGTGTCC
155	8mer	0.059268	CAACATGG	505	8mer	0.04258	GTAAGGGC	855	8mer	0.035439 TAGTGTCC
				506		0.04257				0.035432 CACTACAG
156	8mer	0.059228			8mer		GGACGCAA	856	8mer	
157	8mer	0.0589	CGTAGGGC	507	8mer	0.04255	CCTGCGCC	857	8mer	0.035384 TCCCAACG
158	8mer		CATCGGIA	508	8mer		GGCGGTGT	858	8mer	0.035383 CCGGGGTG
159	8mer		GGATCAGC	509	8mer	0.04248	TGCACTTG	859	8mer	0.035364 CGGCGCGC
160	8mer		AAACGTCG	510	8mer		AGGAGGCC	860	8mer	0.03536 TGGGATTA
161	8mer		AGATCCCG	511	Triplet	0.04242	Triplet	861	8mer	0.035351 AGCCGGGG
162	8mer		TCCGTAGC	512	8mer		CCGAAGGG	862	8mer	0.035334 TTCACTAG
163	8mer		GGCGCAGC	513	8mer		TGAGCCAC	863	8mer	0.03528 CCCTTCGA
164	8mer		ACGCGGAG	514	8mer		TCGGGGGT	864	8mer	0.03522 CTGCGCCT
165	8mer		TAGGACAA	515	8mer		CCCGGGAG	865	8mer	0.03518 CTCGGCTG
166	8mer		GCCTTGGG	516	SC-PseDNC		SC-PseDNC	866	8mer	0.035126 CACGCCAC
167	5mer	0.057679		517	8mer	0.04224	CAACGTCT	867	8mer	0.035113 CTCGGGTC
168	8mer		AATCCCCG	518	5mer	0.04222	CGAGG	868	8mer	0.035093 CGGCGTGC
169	8mer	0.057561		519	8mer	0.04222	CCGAAGAC	869	8mer	0.035069 CTGTCGAC
170	8mer		GTAAACCG	520	5mer	0.04221	CTCGG	870	8mer	0.035065 TAGTGGGA
171	8mer		GGCCTATG	521	8mer			871	8mer	0.035051 CTCAGCCT
172	8mer		CGGACGTG	522	8mer	0.04215	ACGGCCCA	872	8mer	0.03505 GGCCGCTC
173	8mer		GCCGGAAG	523	8mer	0.04214	CCGTGGAA	873	8mer	0.035019 GGCCAGGT
174	8mer		TTCCCTAA	524	8mer		AACTGCGG	874	8mer	0.035018 TTCACGCC
175	8mer		CGCGGGAA	525	8mer	0.04207	CCAGGCAC	875	8mer	0.035013 CTGGCCAC
176	8mer		GGAATATC	526	8mer	0.04206	AGGTCGTA	876	8mer	0.034942 CTGGGCTG
177	8mer		GGCGCGTC	527	8mer		GCCCGGCA	877	8mer	0.034939 GTCGGAAA
178	8mer	0.057246	GGTAACCG	528	8mer	0.04206	AAGCGAGG	878	8mer	0.034897 GCACTTGT
179	8mer	0.057244	AATCCGCC	529	8mer	0.04204	TGCTGCGC	879	8mer	0.034893 TCGCTTGA
180	8mer		ACATCGCG	530	8mer	0.04204	CGGAGGTT	880	5mer	0.034853 GCCGA
181	8mer		GAGGGCAG	531	8mer	0.04194		881	8mer	0.034842 ACTCAGTG
182	8mer		TGATCCGG	532	8mer		AGACGGTC	882	8mer	0.034833 GAACTTAA
183	8mer	0.057127		533	8mer	0.0419	CCATAGTG	883	8mer	0.034822 CCCCAGGC
184	8mer		GCCGCAGT	534	8mer		CGAAGGCG	884	8mer	0.034799 TCCCGCAA
185	8mer		GACGAGCC	535	8mer		GCCGCCAG	885	8mer	0.034779 TCTTAAGT
186	8mer	0.057074	GTCGGTAC	536	8mer	0.04182	AGCTTTTG	886	5mer	0.034747 CGCAC
187	8mer		TCGTAGGG	537	8mer	0.04182	CCCGCCCC	887	8mer	0.034747 CGCAC 0.034736 TGTGGCCG
188	5mer	0.05707		538	8mer		TCGACCTC	888	8mer	0.034735 CCCTGATT
189				539				889		
	8mer 5mor		CCCGA		8mer		CACCACTT		8mer	
190	5mer	0.056908	CCCCCTCT	540	8mer	0.0417	CACCACTT	890	8mer	0.034724 ACAAGCGA
191	8mer		CGCCGTGT	541	8mer	0.0417	GACCTCGG	891	8mer	0.034711 CGGGCGTT
192	8mer		TGCGGTAA	542	Triplet	0.04159	Triplet	892	8mer	0.034709 GAGGGCCT
193	8mer		GGAGCCGG	543	8mer	0.04158	TCCGGTTG	893	8mer	0.034708 GGCGTCGG
194	8mer	0.056504	ATAGCTAA	544	8mer	0.04153	CGGAAACG	894	8mer	0.034707 ACCAGGGG

190										
1976 Service O.	105	8mer	0.056455	CGGGATTC	5/15	8mer	0.04145	ACAATGAG	805	8mer
1998 Berner O.1564327 CGGCCCCC See Berner O.164142 CGCCCCCC See Berner O.164142 CGCCCGCCC See Berner O.164142 CGCCCGCGC See Berner O.164142 CGCCGCGC See Berner O.164142 CGCCGCGC See Berner O.164142 CGCCGGC See Berner O.164142 CGCCGC See Berner O.164142 CGCCGC See Berner O.164142 CGCCG See Be										
1988 8mert 0.056371 0.05640200 5448 8mert 0.04142 0.05650200 5990 8mert 0.056301 6.0560020 4.056002000000000000000000000000000000000							_			
1908 Briner 0.056807 GGAGACCC 548 Briner 0.08412 GGAGACC 900 Briner 0.005681 ACGAGGG 551 Briner 0.0412 GGAGACC 900 Briner 0.05681 CGGAGC 551 Briner 0.0412 GGAGACC 900 Briner 0.05681 CGGAGC 551 Briner 0.0412 GGAGACC 900 Briner 0.05682 CGGAG 541 Briner 0.0412 GGCGAGC 905 Briner 0.05682 CGGAG 941 Briner 0.0412 GGCGAGC 905 Briner 0.05682 CGGAGCC 905 Briner 0.05682 CGGAGCC 905 Briner 0.05682 CGGAGCC 905 Briner 0.05682 CGGAGCC 905 Briner 0.05682 CGGACCC 905 Briner 0.05682 CGCCCGC 905 Briner 0.05682 CGCCCGC 905 Briner 0.05682 CGCCCGC 905 Briner 0.05682 CGCCCGC 905 Briner 0.05682 CGCCCCC 905 Briner 0.05682 CGCCCCCC 905 Briner 0.05682 CGCCCCCC 905 Briner 0.05682 CGCCCCC 905 Briner 0.05682 CGCCC 905 Briner 0.05682 CGCCCC 905 Briner 0.05682 CGCCCCC 905 Briner 0.05682 CGCCCC 905 Briner 0.06682 C										
2000 8mer 0.056036 AGCTAGCG 550 8mer 0.04188 TACCGGG 201 8mer 0.056366 TGCGGCG 552 8mer 0.04188 TACCGGG 202 8mer 0.056366 TGCGGCG 552 8mer 0.04188 TACCGGGG 203 8mer 203										
2011 Smert 0.059693 ATCSCCSGG 50.1 Smert 0.04134 TACTCCSGG 50.2 Smert 0.05963 CASCGGGG 50.2 Smert 0.05963 CASCGGGGG 50.2 Smert 0.05963 CASCGGGGG 50.2 Smert 0.05963 CASCGGGGGG 50.2 Smert 0.05963 CASCGGGGGG 50.2 Smert 0.05963 CASCGGGGGG 50.2 Smert 0.05963 CASCGGGGGG 50.2 Smert 0.05963 CASCGGGGG 50.2 Smert 0.05963 CASCGGGGGG 50.2 Smert 0.05963 CASCGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG										
2002 Simer 0.055936 TGGGGGCG SSQ Simer 0.04131 TGCGGGG Simer 0.05592 Simer 0.05592 GGGAG SSQ Simer 0.04131 TGCGGGG Simer 0.05592 GGGAG Simer 0.05592 GGGAG										
2003 Smer 0.055933 GATICAAC S53 Smer 0.04129 CCCGTATT 904 Smer 2009 Smer 0.055575 GSAATCGT S55 Smer 0.04129 GCCGTATT 904 Smer 2009 Smer 0.055575 GSAATCGT S55 Smer 0.04114 GCCGGAGG 905 Smer 2009 Smer 0.055575 GSAATCGT S55 Smer 0.04114 GCCGAGGG 905 Smer 2009 Smer 0.05528 AAAATTAC S55 Smer 0.04114 GCCGAGGG 905 Smer 2009 Smer 0.05528 ACCGTGGT S56 Smer 0.04113 CATICAGA 908 Smer 2009 Smer 0.05528 GCCGTGGT S56 Smer 0.04113 CATICAGA 908 Smer 2009 Smer 0.05528 GCCGTGGT S56 Smer 0.04114 GCGGGGG 910 Smer 2009 Smer							_			
2016 Smer 0.055628 GGGAGG 504 Smer 0.001124 GCGCTGGC 505 Smer C.055628 Smer 0.055638 AAAAATTA 556 Smer 0.001124 GCGCGGG 507 Smer C.056628 Smer 0.056628 AAAAATTA 556 Smer 0.001124 GCGCGGG 507 Smer C.056628 Smer C.056628 GCGCGGG 509 Smer C.056628 Smer C.056628 GCGCGGG 509 Smer C.056628 GCGCGGG 500 Smer C.056628 GCGCGGG							_			
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209 Smer 0.055214 ACCICTACE 559 Smer 0.04101 ACGGCGGG 599 5mer 211 Smer 0.055116 GTCCAATG 561 Smer 0.04108 TTGCGGAA 311 Smer 211 Smer 0.055105 GTCCAATG 561 Smer 0.04108 TTGCGGAA 311 Smer 211 Smer 0.054965 TGAGTGTG 562 Smer 0.04101 CTAATGCA 313 Smer 213 Smer 0.054965 TGAGTGTG 562 Smer 0.04101 CTAATGCA 313 Smer 214 Smer 0.054965 TGAGTGTG 565 Smer 0.04101 CTAATGCA 313 Smer 215 Smer 0.05496 CTGGTG 566 Smer 0.0408 CGCCCC 315 Smer 216 Smer 0.05496 CTGGT 566 Smer 0.0408 CGCCCC 316 Smer 217 Smer 0.05497 CAAAACTG 567 Smer 0.0408 CGCCCGG 316 Smer 217 Smer 0.05497 ATATACC 568 Smer 0.0408 CGCCGGG 316 Smer 219 Smer 0.05498 ATATACC 569 Smer 0.0408 CGCGGGG 318 Smer 221 Smer 0.054398 ACCGCGAG 570 Smer 0.0408 CGCGATGA 320 Smer 221 Smer 0.054398 ACCGCGAG 570 Smer 0.0408 CGCGATGA 320 Smer 221 Smer 0.054398 ACCGCGAG 571 Smer 0.0408 CGCGATGA 320 Smer 222 Smer 0.054308 CGCGCAG 571 Smer 0.0408 CGCGATGA 322 Smer 222 Smer 0.054308 CGCGCAG 571 Smer 0.0408 CGCGATGA 322 Smer 222 Smer 0.054308 CGCGCAG 571 Smer 0.0408 CGCGATGA 322 Smer 222 Smer 0.054308 CGCGCAG 573 Smer 0.0408 CGCGATGA 323 Smer 222 Smer 0.054308 CGCCGAG 573 Smer 0.0409 CGCGAA 575 Smer	207	8mer	0.055492	CGGATCTA	557	8mer	0.04114		907	5mer
210 Brief 0.05528 GSCCCTGGT 560 Brief 0.04108 AAGGGTCC 910 Brief 211 Brief 0.05528 GSCCCATG 562 Smert 0.04108 GCGCG 912 Brief 211 Brief 0.05408 GAGCGCATG 562 Smert 0.04108 GCGCG 912 Brief 211 Brief 0.05408 GAGCGC 662 Smert 0.04108 GCGCC 913 Brief 211 Brief 0.05408 GAGCGC 663 Brief 0.04108 GCGCC 915 Brief 212 Brief 0.05408 GAGCGC 663 Brief 0.0408 GCGCC 915 Brief 212 Brief 0.05408 GAGCGC 665 Brief 0.04082 GCGCCGGC 917 Brief 212 Brief 0.05408 AACTGC 566 Brief 0.04082 GCGCCGGC 917 Brief 212 Brief 0.05408 AACTGC 569 Brief 0.04082 GCGCCGGC 917 Brief 212 Brief 0.05408 ACCGCCG 570 Brief 0.0408 AACCGCGA 918 Brief 212 Brief 0.05408 ACCGCCGC 577 Brief 0.0408 AACCGCGA 919 Brief 221 Brief 0.05408 ACCGCCGC 577 Brief 0.0408 AACCGCGA 912 Brief 222 Brief 0.05408 ACCGCCGC 577 Brief 0.0408 AACCGCGA 922 Brief 223 Brief 0.05408 CGGCCGC 577 Brief 0.0408 ACCGCCGA 922 Brief 224 Brief 0.05408 CGGACCGC 577 Brief 0.0408 ACCGCCGA 222 Brief 223 Brief 0.05408 CGGACCGC 577 Brief 0.0408 ACCGCCGA 222 Brief 223 Brief 0.05408 CGGACCGC 578 Brief 0.04078 CTGGGCC 928 Brief 224 Brief 0.05408 CGGACCGC 578 Brief 0.04078 CTGGGCC 928 Brief 224 Brief 0.05408 CGGACCGC 578 Brief 0.04078 CTGGGCC 928 Brief 0.05408 CGGACCGCC 578 Brief 0.04078 CTGGGCC 928 Brief 0.05408 CGGACCGC 578 Brief 0.04078 CTGGGCC 928 Brief 0.05408 CGGACCGC 588 Brief 0.04078 CGGCGCT 938 Brief 0.	208	8mer	0.05548	AGACCCGC	558	8mer	0.04113	CATTCGAT	908	8mer
211 Smer 0.055116 GTCCATG 561 Smer 0.04106 TTGCGGAA 911 Smer 212 Smer 0.05490 GGGCGTG 562 Smer 0.04101 CTAATGCA 913 Smer 213 Smer 0.05490 GAGATGG 565 Smer 0.04101 CTAATGCA 913 Smer 215 Smer 0.05490 GAGATGG 565 Smer 0.04090 GCCCCC 915 Smer 215 Smer 0.05490 GAGATGG 565 Smer 0.04090 GCCCCC 915 Smer 215 Smer 0.05490 CAGATGG 565 Smer 0.04090 GCCCCC 915 Smer 217 Smer 0.05490 CAGATGG 567 Smer 0.04490 GAGATGG 916 Smer 218 Smer 0.05490 AATATACC 568 Smer 0.0489 GAGATGG 918 Smer 219 Smer 0.05490 AATATACC 569 Smer 0.0489 AGCGGATGG 918 Smer 221 Smer 0.05439 ACCGCAGG 570 Smer 0.0489 AGCGGATGG 918 Smer 222 Smer 0.05439 ACCGCAGG 570 Smer 0.0489 GGGATGG 922 Smer 222 Smer 0.05439 ACCGCAGG 571 Smer 0.0489 ACCGGATGG 922 Smer 223 Smer 0.05430 GGGATACG 572 Smer 0.0489 ACCGGATGG 922 Smer 224 Smer 0.05430 GCGATACG 573 Smer 0.0489 ACCGGATGG 922 Smer 225 Smer 0.05430 GCGATACG 573 Smer 0.0489 ACCGGATGG 922 Smer 225 Smer 0.05430 ACCGGATACG 573 Smer 0.0489 ACCGGATGG 922 Smer 225 Smer 0.05430 ACCGGATACG 573 Smer 0.0489 ACCGGATGG 922 Smer 226 Smer 0.05430 ACCGGATACG 573 Smer 0.0489 ACCGGATGG 922 Smer 227 Smer 0.05430 ACCGGATGG 573 Smer 0.0489 ACCGGATGG 922 Smer 228 Smer 0.05430 ACCGGATGG 574 Smer 226 Smer 227 Smer 228 Smer	209	8mer	0.055231	ACCTGTAC	559	8mer	0.04111	GGGGCGGG	909	5mer
212 Bmer 0.055039 GGGCGATG 562 Smer 0.04104 GGGGG 512 Bmer 213 Bmer 0.05487 TICAAGCG 564 Bmer 0.04107 GCCCC 514 Bmer 0.05487 TICAAGCG 566 Smer 0.04095 GCCGCTC 514 Bmer 515 Bmer	210	8mer	0.0552	GCCCTGGT	560	8mer	0.04108	AAGGGTCC	910	8mer
213	211	8mer	0.055116	GTCCAATG	561	8mer	0.04108	TTGCGGAA	911	8mer
214 Smer 0.0548 TICAAGG 564 Smer 0.0499 CCCCTCC 914 Smer 215 Smer 0.05496 CCGGG 565 Smer 0.04998 CCCCC 916 Smer 216 Smer 0.05495 CCGGG 566 Smer 0.04083 CATCGCCG 916 Smer 217 Smer 0.05495 CAAAACTG 567 Smer 0.0408 GCGACCGG 918 Smer 218 Smer 0.05445 AATACAC 568 Smer 0.0408 GCGACCGG 918 Smer 219 Smer 0.05495 AATACAC 569 Smer 0.0408 GCGACCGG 918 Smer 229 Smer 0.05495 AACCGCAG 570 Smer 0.0408 GCGACCGG 918 Smer 229 Smer 0.05495 AACCGCAG 570 Smer 0.0408 GCGACCGG 928 Smer 229 Smer 0.05495 AACCGCAG 570 Smer 0.0408 GCGACCGG 928 Smer 229 Smer 0.05495 AACCGCAG 577 Smer 0.0498 GCGACCGG 928 Smer 224 Smer 0.05495 CCCGAA 575 Smer 0.0498 GCGACCGG 928 Smer 225 Smer 0.05495 CCCGAA 575 Smer 0.0498 GCGACCGG 928 Smer 227 Smer 0.05495 CCCGAA 575 Smer 0.0497 CTGGGCCT 925 Smer 228 Smer 0.05395 CACCGCTC 579 Smer 0.0497 CTGGGCCT 925 Smer 229 Smer 0.05395 CACCGCTC 579 Smer 0.0497 CTGGGCCT 926 Smer 229 Smer 0.05395 CACCGCTC 579 Smer 0.0497 CTGGCCT 927 Smer 229 Smer 0.05395 CACCGCTC 579 Smer 0.0497 CTGGCCT 927 Smer 229 Smer 0.05395 CACCGCTC 579 Smer 0.0496 GCGATCA 928 Smer 229 Smer 0.05358 CACCCTCC 579 Smer 0.0496 GCGATCA 929 Smer 229 Smer 0.05352 CCCGGCC 580 Smer 0.0496 GCGATCA 929 Smer 229 Smer 0.05392 CCCGCGC 580 Smer 0.0496 GCGATCA 929 Smer 229 Smer 0.05392 CCCGCGC 580 Smer 0.0496 GCGATCA 929 Smer 229 Smer 0.05392 CCCGCGCC 580 Smer 0.0496 GCGATCA 929 Smer 229 Smer 0.05392 CCCGCGCC 580 Smer 0.0496 GCGATCA 930 Smer 239 Smer 0.05392 CCCGCGCC 580 Smer 0.0496 GCGATCA 930 Smer 239 Smer 0.05392 CCCCCCCC 580 Smer 0.0496 CCCCCCC 930 Sme	212	8mer	0.055039	CGGCGATG	562	5mer	0.04104	GCGCG	912	8mer
215 Smer 0.0548 GAGAATGC 566 Smer 0.04493 GCCCC 911 Smer 217 Smer 0.054507 CAAAAGTC 567 Smer 0.044082 CCCCCGGC 917 Smer 218 Smer 0.05459 AATACAGC 569 Smer 0.044082 CCCCCGGC 917 Smer 219 Smer 0.05458 TATACAGC 569 Smer 0.04082 GCGACCGC 918 Smer 219 Smer 0.05458 TATACAGC 569 Smer 0.04082 GCGACCGC 917 Smer 220 Smer 0.05458 TATACAGC 569 Smer 0.04082 GCGACCGC 918 Smer 220 Smer 0.05458 ACCCGCAGC 570 Smer 0.04082 GCGACCGC 918 Smer 221 Smer 0.05468 ACCCGCAGC 577 Smer 0.04082 GCGACCGC 918 Smer 222 Smer 0.05468 ACCCGCAGC 577 Smer 0.04082 GCGCACGC 918 Smer 224 Smer 0.05408 CGGAACGC 577 Smer 0.04082 GCGCACGC 928 Smer 225 Smer 0.05409 CGGAACGC 577 Smer 0.04082 GCGCACGC 928 Smer 226 Smer 0.05409 CGGAACGC 578 Smer 0.04097 GCGGCCT 928 Smer 227 Smer 0.05409 CGGAACGC 578 Smer 0.04097 GCGGCCT 928 Smer 228 Smer 0.05395 GCCCCGGC 577 Smer 0.04072 CCTGGCCT 928 Smer 229 Smer 0.05395 GCCCGCG 578 Smer 0.04072 CCTGGCCT 928 Smer 229 Smer 0.05395 GCCCGCG 578 Smer 0.04072 CCTGGCCT 928 Smer 229 Smer 0.05395 GCCCGCG 579 Smer 0.04072 CCTGGCCT 928 Smer 229 Smer 0.05395 GCCCGCG 579 Smer 0.04072 CCTGGCCT 928 Smer 229 Smer 0.05395 GCCGCTGCG 580 Smer 0.04085 GCGATGCA 590 Smer 0.04082 GCGATGCA 590 Smer	213	8mer	0.054965	TGAGTGTC	563	8mer	0.04101	CTAATGCA	913	8mer
2116 Smer 0.054796 CCTGG 566 Smer 0.04082 CGCCGGG 917 Smer C218 Smer 0.054459 AnTATACC 567 Smer 0.0408 GGACCGC 918 Smer C220 Smer 0.054459 AnTATACC 569 Smer 0.0408 GGACCGC 918 Smer C220 Smer 0.054390 ACCGGCAG 569 Smer 0.0408 GGACCGC 918 Smer C220 Smer 0.054390 ACCGGCAG 569 Smer 0.0408 GGCATGA 922 Smer C221 Smer 0.054310 CGGCAACCG 571 Smer 0.0408 AGGGCTAG 922 Smer C222 Smer 0.054310 CGGCAACCG 571 Smer 0.0408 AGGGCTAG 922 Smer C222 Smer 0.054310 CGGAACCG 578 Smer 0.0408 GCGCAACG 922 Smer C223 Smer 0.05409 CCGAA CGGACTT 574 Smer 0.0408 GTGGTAAC 922 Smer C224 Smer 0.053902 AAAATTAG 575 Smer 0.04070 CTGGGCCT 925 Smer C227 Smer 0.053902 AAAATTAG 577 Smer 0.04071 TGGGACCT 922 Smer C229 Smer 0.053902 AAAATTAG 577 Smer 0.04071 TGGGACCT 922 Smer C229 Smer 0.053902 AAAATTAG Smer 0.04071 TGGGACCT 922 Smer C229 Smer 0.053902 AAAATTAG Smer 0.04071 TGGGACCT 922 Smer C229 Smer 0.053902 AAAATTAG Smer 0.04071 TGGGACCT 922 Smer C229 Smer 0.053902 AAAATTAG Smer 0.04071 TGGGACCT 922 Smer C229 Smer 0.053902 AAAATTAG Smer 0.04064 GGCGTTCA 928 Smer C229 Smer 0.053902 CTCAAGCG S60 Smer 0.04067 TGAGGACCT 922 Smer C229 Smer 0.053902 CTCAAGCG S60 Smer 0.04067 GCGCTTCA 923 Smer C229 Smer 0.053902 CTCAAGCG S60 Smer 0.04067 GCGCTTCA 923 Smer C229 Smer 0.052902 CTCAAGCG S60 Smer 0.04067 CTCACGCG S60 Smer		8mer	0.054878	TTCAAGCG		8mer		CCCGTCTC		8mer
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219 8mer 0.05445 TATACCAG 569 8mer 0.0408 TAACGGGA 922 8mer 2015 8mer 0.054319 CCCGGCC 571 8mer 0.0408 ACGCGCTAG 922 8mer 2015 8mer 0.054310 CCGGGC 571 8mer 0.0408 ACGCGCTAG 922 8mer 2015 8mer 0.05436 CGGCTAG 922 8mer 2015 223 8mer 0.05436 CGGCTAG 922 8mer 2015 223 8mer 0.05436 CGGCTAG 922 8mer 2015 224 8mer 0.05436 CGGCTAG 922 8mer 224 8mer 0.05436 CGGCTAG 922 8mer 224 8mer 0.05436 CGGCTAG 922 8mer 225 5mer 0.05409 CCCGAC 573 8mer 0.0409 CTGGGCCT 922 8mer 225 5mer 0.05409 CCCGAC 575 8mer 0.04079 CTGGGCCT 922 8mer 228 8mer 0.05336 CGCCGCGC 576 8mer 0.04079 CTGGGCCT 922 8mer 228 8mer 0.05336 CGCCCGCC 579 8mer 0.04069 CGTAATAC 928 8mer 229 8mer 0.05336 CGCCCGCC 579 8mer 0.04069 CGTAATAC 928 8mer 230 8mer 0.053492 AGGCACGC 591 8mer 0.04066 CGCGTTAC 929 8mer 231 8mer 0.053492 CGCCATCC 591 8mer 0.04066 CGCGTTAC 929 8mer 232 8mer 0.05329 CGCCACCC 591 8mer 0.04066 CGACACC 931 8mer 232 8mer 0.05329 CGCCACCC 591 8mer 0.04066 CGACACC 933 8mer 234 8mer 0.05329 CGCCACCC 591 8mer 0.04066 CGACACC 933 8mer 234 8mer 0.05329 CGCCACCC 591 8mer 0.04066 CGACACC 933 8mer 234 8mer 0.05329 CGCCACCC 591 8mer 0.04066 CGACACC 933 8mer 234 8mer 0.05329 CGCCACCC 594 8mer 0.04046 CACCCCC 933 8mer 234 8mer 0.05329 CGCCACCC 594 8mer 0.04046 CACCCCC 933 8mer 234 8mer 0.05329 CGCCACCC 235 8mer 0.04046 CACCCCC 933 8mer 234 8mer 0.05249 CGCGCTAC 594 8mer 0.04046 CACCCCCC 935 8mer 234 8mer 0.05249 CGCCGCCC 235 8mer 234 8mer 0.05249 CGCCCCCC 235 8mer 234 8mer 0.05249 CGCCCCCC 235 8mer 234 8mer 0.05249 CGCCCCCC 235 8mer 234 8mer 0.05249 CGCCCCC										
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0.0347 AGGCACCT

0.034691 CTAATGGT 0.034684 ACCGCTGG 0.034665 CATGGCAT

0.034628 GCGTTGTT

0.034567 CACCGAAG 0.034557 CTGAAAAA

0.034523 CGCGGGAG 0.034485 CGGTTAAC 0.034454 CGGGAGTT 0.03441 CGCCGCCT 0.034398 CCCTCACG

0.034398 GGCCT 0.034398 AGGGCCGG

0.034375 CGGCA 0.034374 CCCGGCT 0.034353 AGGGGCGT 0.034352 GGGGGACG

0.034348 CCGTATTA

0.034348 GGATTACA 0.034336 CCCTACCA 0.03431 GAAATTGA 0.034267 GTCGGACC

0.034207 CCGGGCAT 0.034187 TTGGAAAG

0.034168 GATGCCCG 0.034158 GTGCCGGG

0.034099 CCGGGGCG 0.034094 GAAGGCGG

0.034065 GCAATGCG 0.034064 TCCCCTCG 0.034041 GCCCACAA

0.034036 GCTGCTAG

0.034008 GGCGGCAC 0.034007 ACCTGGTC 0.033999 AACAAGCG

0.03399 TGCCTAAG

0.033985 TACAAGCG 0.033985 CTGGTCTC 0.033917 GGTCTCGA 0.033911 TATGATAC 0.0339 CCGCGCTT

0.033872 GATTTTTA

0.033869 GCACCCCT

0.033854 CCGTAGAC 0.033778 TCGTGACA

0.033767 GTCCCTGG 0.033762 CGAATTAC 0.03376 GTGCCTAA

0.033714 ACTGCGAT

0.033673 CCGCCGTT 0.033602 CGCAGCGA 0.033572 TGTTACAT

0.033562 TGACGGGC 0.033561 AATACGGA

0.033552 ATAGGTAC 0.033546 TTTGCAGC

0.033546 THIGLAGE 0.033524 AACCCGCG 0.03352 CGTATGTG 0.033512 CTGCTGTT 0.033509 AATCACAA 0.033471 CTGGG

0.033465 TCGGGACG 0.033421 AGCGAAAT

0.03342 GCCCTGGC 0.033374 CTCGGTTC 0.033372 AACGGACG

0.033367 GGTCGCCA 0.033338 CGAATCCC 0.033335 GGGCGCA 0.033317 GTGCGGTA

0.033292 GAATGCAC

0.033279 CTGTCGGT 0.033276 CGGCCGGG

0.033224 CGTCACCT 0.033193 GCCGTGTC

0.033192 CATCATTA

0.033165 TCGGCCTC 0.033164 GGGATATC 0.033131 CCTATATC

0.033087 CAGCCAAG

0.033084 AGGGGCGG 0.033055 GCCGGCCG 0.033046 ACCCG

0.033036 GGCCGAAT 0.033024 TCGTTGAA 0.033004 GCTCACAC

0.032975 CCCAGTGC 0.032954 GCCGC

0.033727

287	8mer	0.049887	CCTCCGTA
288	8mer	0.049846	GATCGCGC
289	8mer	0.049818	TTGGTGCT
290	8mer	0.049787	CGGAGGCG
291	8mer	0.049757	CGAGATCG
292	8mer	0.049721	TGAACCCG
293	8mer	0.049702	AATAGCCA
294	8mer	0.049633	AGCGGGGC
295	8mer	0.049554	GGTGAACC
296	8mer	0.049369	ATAAATGG
297	8mer	0.049266	CACTGCAC
298	8mer	0.049199	TGCCTGCG
299	8mer	0.049125	CATTOCCO
300	8mer	0.049102	CATTGCCG
301	5mer	0.049087	CCCACACT
302	8mer	0.048983	GCCAGAGT
303	8mer	0.0489 0.048871	GGCGCCCAT
304	8mer		AGCCGCAT CTCACGGG
305 306	8mer	0.048848	
306	8mer 8mer	0.048843	GATCGTCG
308	8mer	0.048723	GGCTATTG
309	8mer	0.04869	GGGACTGA
310	8mer	0.048651	TGAACACG
311	8mer	0.048619	GGGCGGGG
312	8mer	0.048591	ACTGTGGG
313	8mer	0.048586	GACCCGCA
314	8mer	0.048551	AGACCTGG
315	8mer	0.048515	GACTCGCG
316	8mer	0.048481	CGCCGCCG
317	8mer	0.048465	CGGGAGCG
318	8mer	0.048459	CGCCCGGC
319	8mer	0.048409	GGCGCGGC
320	8mer	0.048382	ATCGTCGT
321	8mer	0.048319	GTTGTACG
322	8mer	0.048104	GAACGGCC
323	8mer	0.048021	GTGGGAGG
324	5mer	0.048021	CCGAG
325	8mer	0.048009	AGGTCCCT
326	8mer	0.047939	CGGCCATC
327	8mer	0.047913	CGAGACTG
328	8mer	0.047904	CCCGAAGG
329	8mer	0.047877	GTTCTGCA
330	8mer	0.047858	CCTGTCGG
331	8mer	0.047854	CGGCGGGG
332 333	8mer	0.047816	ATCGTAGA
333	8mer Triplot	0.047784 0.047765	CTCGTCAA
335	Triplet 8mer	0.047735	Triplet AGTCGGAG
336	8mer	0.047729	CCTCTCAT
337	8mer	0.047729	TGCCCCGA
338	8mer	0.047708	ACTTCGAG
339	8mer	0.047676	TGCGGGGG
340	8mer	0.047656	GCCCGAAC
341	8mer	0.047521	TGGGCGCC
342	8mer	0.047505	ACATGGCA
343	Triplet	0.047503	Triplet
344	8mer	0.047497	TGCACGCA
345	8mer	0.047407	CGCATTCC
346	8mer	0.047393	CACCGGAC
347	8mer	0.047393 0.047279	CGCTTGAA
348	8mer	0.047215	GAGATCCC
349	8mer	0.047169	GGTCGAGA
350	8mer	0.047111	AAGTCGGG

637	8mer	0.03918	TTTTTTAG
638	8mer	0.03918	CCGCCAAT
639	8mer	0.03915	TGGGGCGG
640	8mer	0.03913	TACCGGCA
641	8mer	0.03909	CATGCTAC
642	8mer	0.03906	CCCGCAAA
643	5mer	0.03904	AGCCG
644	8mer	0.03904	AACTGTAC
645	8mer	0.039	GCAGAAAA
646	8mer	0.039	CACGCAGG
647	8mer	0.039	GCATCGTC
648	8mer	0.03898	GAGGGCGA
649	8mer	0.03897	GGTGAAAC
650	8mer	0.03894	CGGATGTC
651	8mer	0.03894	GCGGAGCG
652	8mer	0.03893	AAGCCGCA
653	8mer	0.03885	TGACGCGA
654	8mer	0.03879	CCACCGAT
655	8mer	0.03875	TGCGTGAG TCATTGCC
656 657	8mer	0.03874	AGCGAGAC
658	8mer	0.03869	TGTGTTAC
659	8mer	0.03868	CCGTAGCT
660	8mer	0.03866	ACATCCGT
661	8mer 8mer	0.03865	CCTCGTCG
662	8mer	0.03865	CTGCGCCG
663	8mer	0.03862	CTATGGGA
664	8mer	0.03862	TGCAACCT
665	8mer	0.03861	GATTAGAG
666	8mer	0.0386	TCGCCGCC
667	8mer	0.03858	AGGATGTT
668	8mer	0.03857	CCGCGGAT
669	8mer	0.03857	ATGAGCTA
670	8mer	0.03857	ACTCGTCA
671	8mer	0.03856	GCGGAGGT
672	8mer	0.03854	ATAACGAG
673	8mer	0.03854	GAATATCT
674	8mer	0.03853	GACACGGG
675	8mer	0.03851	AACATGGT
676	8mer	0.03848	ATAGTGCG
677	8mer	0.03845	GACGGGCG
678	8mer	0.03845	TGCAAGTT
679	8mer	0.03836	CGCGGATT
680	8mer	0.03836	GCCCGGAG
681	8mer	0.03834	ACGTCCGG
682	8mer	0.03833	TAGATCGT
683 684	5mer	0.03832	TGGTA GCGGAGTT
685	8mer 8mer	0.03828	GCGGAGTT ACGCCACA
686	8mer	0.03827	ATGGGACC
687	8mer	0.03825	CGTCATGA
688	8mer	0.03825	CATCCGTC
689	8mer	0.03825	GAGGGCGC
690	8mer	0.03824	TGATTCGC
691	8mer	0.03823	TGCGCTCC
692	8mer	0.03823	GGGCTCAC
693	5mer	0.0382	GGCGG
694	8mer	0.03819	GCACGTGG
695	8mer	0.03817	GGTGTCGT
696	8mer	0.03814	CGGCTGGG
697	8mer	0.03812	CTGACGCG
698	8mer	0.03805	TTAAATGA
699	8mer	0.03805	TCACCGCG
700	8mer	0.03802	CTCACATC

987	8mer	0.032933	CCGCCGCC
988	8mer	0.032904	GACCTCCC
989	8mer	0.032903	GCCGATCG
990	8mer	0.032903	CGACGAAG
991	8mer	0.032903	CCGTATAC
992	8mer	0.032903	ACTCGCGC
993	8mer	0.032903	CCGCTATA
994	8mer	0.032903	CGGTGCTA
995	8mer	0.032903	TTTAGCGC
996	8mer	0.032903	CACGAACG
997	8mer	0.032903	CCGTATCG
998	8mer	0.032903	CTTACGCG
999	8mer	0.032903	CGGTAATG
1000	8mer	0.032903	CGGCTAAC

TableS3 The top 1000 features in the optimal feature set of the lncLocPredtp68 according to F-score order

Order Feature F-score kmer Order Feature F-score kmer Order Feature F-score

Order	Feature	F-score	kmer
1	8mer	0.10931	TCCCAAAG
2	8mer	0.107445	GCGGGGCG
3	8mer	0.106471	AACGGCCC
4	8mer	0.105616	CGGTGACG
5	8mer	0.098194	CGGGTCAC
6	8mer	0.095685	TCACGGGA
7	8mer	0.09567	TGCGGTTC
8	8mer	0.09254	GGGGGACC
9	8mer	0.091784	CCACGACC
10	8mer	0.091036	CGCCCCGG
11	8mer	0.09051	TCAACGTC
12	8mer	0.088855	CGAAGTCG
13	8mer	0.088667	CGGGGGAC
14	6mer	0.088041	GGGGCG
15	8mer	0.08771	ATGGGGCG
16	8mer	0.087693	TCGGCCCC
17	8mer	0.087595	AGCGGAGC
18	8mer	0.087322	AATCGACG
19	8mer	0.085901	GCTCACGG
20	6mer	0.084846	GCGGGG
21	8mer	0.084716	GTAGGGCG
22	8mer	0.084641	CGCAGTTC
23	8mer	0.083424	CCGCAGTT

Order	Feature	F-score	kmer
351	8mer	0.04717	GGTCGAGA
352	8mer	0.04711	AAGTCGGG
353	8mer	0.04707	CGACCCGG
354	8mer	0.04705	GCGCCGTG
355	8mer	0.04699	TGCGTCAA
356	8mer	0.04697	TGGACAGC
357	8mer	0.04696	TCGTCAAC
358	8mer	0.0469	CACGGGAG
359	8mer	0.0468	ACGACCCG
360	8mer	0.04677	TATCCAGT
361	8mer	0.04677	GGTCATCG
362	8mer	0.04676	ACGCAGGG
363	8mer	0.04671	CGCGCCGT
364	8mer	0.04669	CTCCCAAA
365	8mer	0.04666	CGGGGCGG
366	8mer	0.04664	TTATGTCG
367	8mer	0.04664	GCGCAGCA
368	6mer	0.04658	CGGGCG
369	8mer	0.04654	GACCGCGA
370	8mer	0.04648	AGAAGCGG
371	6mer	0.04647	ACCCGC
372	6mer	0.04646	CCGAGG
373	8mer	0.04643	ATCGCCGA

Order	Feature	F-score	kmer	
701	701 8mer		GACACGGG	
702	6mer	0.038521	CCCCGC	
703	8mer	0.038508	AACATGGT	
704	8mer	0.038481	ATAGTGCG	
705	6mer	0.038469	GCGGAG	
706	8mer	0.038451	GACGGGCG	
707	8mer	0.038446	TGCAAGTT	
708	8mer	0.038361	CGCGGATT	
709	8mer	0.03836	GCCCGGAG	
710	8mer	0.038343	ACGTCCGG	
711	8mer	0.038332	TAGATCGT	
712	8mer	0.038297	GCGGAGTT	
713	8mer	0.038275	ACGCCACA	
714	8mer	0.03827	ATGGGACC	
715	8mer	0.038252	CGTCATGA	
716	8mer	0.038251	CATCCGTC	
717	8mer	0.038249	GAGGGCGC	
718	8mer	0.038244	TGATTCGC	
719	8mer	0.038228	TGCGCTCC	
720	8mer	0.038226	GGGCTCAC	
721	8mer	0.038193	GCACGTGG	
722	8mer	0.038168	GGTGTCGT	
723	8mer	0.038135	CGGCTGGG	

24	Omor	0.082921	CCCCACCC	274	Omor	0.04641	TGTCCGGT	724	Omor	0.038124 CTGACGCG
24	8mer		GCGGAGCC	374	8mer				8mer	
25	8mer	0.081369	CATCGGCT	375	8mer	0.04636	AGCAGTCC	725	8mer	0.03805 TTAAATGA
26	8mer	0.079854	AGTAGGAC	376	8mer	0.04628	AGCTCGGC	726	8mer	0.038048 TCACCGCG
27	8mer	0.079681	CCCAAAGT	377	6mer	0.04625	GTCGTG	727	8mer	0.038015 CTCACATC
28	8mer	0.079471	AAGGGCTG	378	8mer	0.04623	TCTGGTAT	728	8mer	0.037947 TGCGCCGA
29		0.078261	GGGATGCG	379		0.04622	CGGGCACT	729		0.037943 GCAAACGT
	8mer				8mer				8mer	
30	8mer	0.077741	GATCCCGA	380	8mer	0.0462	GTTAATTT	730	8mer	0.037942 CCGGGAAC
31	6mer	0.077289	GGGCGC	381	8mer	0.04614	CAGGACGA	731	8mer	0.037932 TGGCCAGG
32	8mer	0.077287	GCGTGAGC	382	8mer	0.04611	GGTCGGGC	732	8mer	0.037889 CGAATGAT
33	8mer	0.077177	CGGGCGGG	383	6mer	0.04608	CGCCGG	733	8mer	0.037866 ACGCGACA
34	8mer	0.077057	GCGGGGGA	384	8mer	0.04606	CGGGGCCA	734	8mer	0.037866 GACGCGAC
35	6mer	0.076967	GGGCCT	385	8mer	0.04603	CGCCCGAG	735	8mer	0.037866 TGTCGACC
36	8mer	0.076646	AGACGGCG	386	8mer	0.04599	TCGCCCTC	736	8mer	0.037866 TAAACCGC
37	8mer	0.075641	CTTGTATC	387	8mer	0.04596	GGCGGGGC	737	8mer	0.037866 GCTCGCGT
38	8mer	0.07546	CTTAAACC	388	6mer	0.04585	CGCCCG	738	8mer	0.037861 CGGCCTCC
							CCCTGGGC			
39	8mer	0.075416	GAGCCCGA	389	8mer	0.04584		739	8mer	0.037833 GACGCCTC
40	8mer	0.07508	CGTAGCTT	390	8mer	0.04582	CGCCGGAA	740	8mer	0.037833 TTCAATGA
41	8mer	0.074414	CCCCGAA	391	8mer	0.04581	ATCTTAAT	741	8mer	0.037822 CTCGTCGA
42	6mer	0.073596	ATCGCG	392	6mer	0.04578	CCGGCT	742	6mer	0.037789 TCGCGC
43	8mer	0.073205	GGCGAGGT	393	8mer	0.04574	CCGCGAAC	743	8mer	0.037764 GGCCGTCG
44	8mer	0.073205	CCGCACCG	394	8mer	0.0456	TAAGGGCT	744		0.037759 TGGGGTAT
									8mer	
45	8mer	0.072737	CGCAGCGT	395	8mer	0.04557	CGACCTCC	745	8mer	0.037755 TGTCCCGC
46	8mer	0.072567	CATCGCGG	396	8mer	0.04555	ACGCTCGT	746	8mer	0.03775 CCTTCACT
47	8mer	0.072132	TGGGCCCG	397	8mer	0.04554	CGCGGGCA	747	8mer	0.037746 ATATGTGA
48	6mer	0.072091	CGGGGC	398	8mer	0.04554	GCGCCAAT	748	8mer	0.037736 CCGAACTC
49								749		
	8mer	0.072036		399	Triplet	0.04548	Triplet		8mer	
50	8mer	0.072034	GTGCGTGA	400	8mer	0.04545	GACCCGGC	750	8mer	0.037677 CTGCTCAC
51	8mer	0.071804	GGATGCGG	401	8mer	0.04545	GGCTGATG	751	8mer	0.037644 CAGGCGGG
52	6mer	0.070845	CGTCCA	402	8mer	0.0454	GCACAATT	752	8mer	0.03761 GCCCGTCG
53	8mer	0.070518	AAGGGGCG	403	8mer	0.04529	GGTTGCTA	753	8mer	0.037582 GCGGGCAT
				404						
54	6mer	0.070402	AGCCGG		8mer	0.04526	TGTTTACG	754	8mer	0.037572 CACGAGAC
55	8mer	0.07038	CCGAAGGC	405	8mer	0.04524	AGGGCGCA	755	8mer	0.037572 GCAATGCC
56	8mer	0.069523	CCTGTGTT	406	8mer	0.04523	TAGGCATT	756	8mer	0.037561 CTGCTGCG
57	8mer	0.069495	GTGGAAGA	407	8mer	0.04521	CCGAAGTC	757	8mer	0.037556 CCGAGGGC
58	8mer	0.068895	ATCCCGAA	408	8mer	0.04521	CGTACATT	758	8mer	0.037538 AGGTCGTG
59	8mer	0.068761	CTTGAACC	409	8mer	0.04521	CGCGTACA	759	8mer	0.037517 GGCTGGTC
60	8mer	0.068296		410	8mer	0.04518	CCATCGGT	760	8mer	0.037512 GAAAGCGA
61	8mer	0.068213	AGACCCTC	411	8mer	0.04515	CGAGACCA	761	8mer	0.037508 GGGGCTGA
62	8mer	0.068069	ACGTGCGG	412	8mer	0.04515	CCGGACTT	762	8mer	0.037503 GGCTGCTA
63	8mer	0.068033		413	8mer	0.04512	ATGTCGGC	763	8mer	0.037495 CTTCATCG
64	8mer	0.067987	GACCATCG	414	8mer	0.04507	CTAGCGGA	764	8mer	0.03748 CGTGGGTG
65	8mer	0.067781	ACGAATCA	415	8mer	0.04506	TCGACGAA	765	8mer	0.03746 ATTAGCCG
66	8mer	0.067781	TCGTCGAC	416	8mer	0.04506	GGGCGCGG	766	8mer	0.037429 GCTGCCGG
67	8mer	0.067781	TAACCGCC	417	8mer	0.04499	CCCCTTAT	767	8mer	0.037404 AAGCCGGC
68	8mer	0.067781	GTCGACCG	418	6mer	0.04497	TCGGCC	768	8mer	0.037394 GGGGGCGG
				419						
69	8mer	0.067781	CGAGTCGG		8mer	0.04495	GGCAGAAA	769	8mer	0.037359 CCCGTCTG
70	8mer	0.067781	TATGCGGG	420	6mer	0.04493	CCCGAA	770	8mer	0.037355 CACGGGAT
71	8mer	0.067781	ATGCGGGG	421	8mer	0.04493	GTTGCTAT	771	8mer	0.037317 ACCCGAAT
72	8mer	0.067692	AGCCACCG	422	8mer	0.04492	GGTTGGTC	772	8mer	0.037314 TCGCCCCG
73	8mer	0.067483	GCGTGCTC	423	8mer	0.04491	ACCGTGCC	773	8mer	0.037312 GCCTATGG
74	8mer	0.067415		424	6mer	0.04489	CCCGCC	774	8mer	0.03727 AATACCGG
75	6mer	0.067398	CGGGGG	425	8mer	0.04484	ACGCCTCG	775	8mer	0.037266 CCCCGCCC
76	6mer	0.067315	CCGCCG	426	8mer	0.04481	CGTGTTAC	776	8mer	0.037257 CGGCCTAT
77	8mer	0.067239	GGAATCCG	427	8mer	0.0448	ATGCGCGA	777	8mer	0.037252 GCTGCGCA
78	8mer	0.067199	TGACGAGC	428	8mer	0.04471	CTTTCGTC	778	8mer	0.037222 CCCGGCAC
70	_			400	00 0 0110	0.04400	00 0 0110	770	_	0.007040 4.0000000
79	8mer		CGCACAGI	429			SC-PseDNC	779	8mer	0.037219 ACCCGGGG
80	8mer		GCGCGTCC	430	8mer	0.04457	GGGGCGCG	780	8mer	0.037189 AAGCGAAA
81	8mer	0.066595	TCCGCCGG	431	6mer	0.04457	ACGCGA	781	6mer	0.037183 CCCGTC
82	8mer	0.066489	GGCCCGTG	432	8mer	0.0445	ACCGCGAA	782	8mer	0.037161 GAATCGCT
83	8mer		GCGGATCT	433	8mer	0.04444	GGGGATAT	783	8mer	0.037139 GCGCCCGG
							TTTGTCTC			
84	8mer	0.06636		434	8mer	0.0444		784	8mer	0.037131 ACCCGGCC
85	8mer		CCTGGGCC	435	8mer	0.0444	AGATTGCG	785	8mer	0.037086 ATTAGGGA
86	8mer		GACGAATC	436	8mer	0.04432	CGAGAATC	786	8mer	0.037082 CCGCTTAG
87	8mer	0.066039	AACGTCGG	437	8mer	0.04426	CAGTTCGG	787	6mer	0.037077 GGCCCG
88	8mer		TTATGCGG	438	8mer	0.04423	ATCGACGA	788	8mer	0.037036 GGCATTCG
89	8mer		CGACGAAT	439	8mer	0.04422	CACGGCAA	789	8mer	0.037023 GGCATTCC
90	8mer		GCGGTAAC	440	8mer	0.04422	ACCCCCGA	790	8mer	0.036989 TAAAATGG
91	8mer		CCTGGGCG	441	8mer	0.04418	CGAGAGCT	791	8mer	0.036988 TCCTTTCC
92	8mer	0.065523		442	6mer	0.04416	CTGGGC	792	6mer	0.036974 GACCTC
93	8mer	0.065484	TGGTCTCG	443	6mer	0.04416	GGCGGG	793	8mer	0.036971 CCTCCCAA
94	8mer		CCACTGCA	444	8mer	0.04415	GCGACTCG	794	8mer	0.036962 CGGAATAT
95	6mer	0.065422		445	8mer	0.0441	CCGCTGGT	795	8mer	0.036961 TTGGGCCC
96	8mer		CGACAGGA	446	8mer	0.04408	ACTGCTCA	796	8mer	0.036937 CGCCAATC
97	8mer		CATGACAC	447	8mer	0.04407	GAGCCCCG	797	8mer	0.036924 TGACCTTA
98	8mer	0.065246	ATCCGCCG	448	8mer	0.04403	CCAAAGTG	798	8mer	0.036905 GCGAAATT
99	8mer		TGTCGGTA	449	6mer	0.04402	GGGCGA	799	8mer	0.036883 CTTCAAGC
100	8mer		CTCATTGC	450	6mer	0.04401	GCGGTA	800	6mer	0.036873 ACACGG
101	8mer		GTAACCGC	451	8mer	0.04392	CCGCAGCG	801	8mer	0.036856 AGGCTGGT
102	8mer		CCGGTTGA	452	8mer	0.0439	CACCGCGC	802	8mer	0.036827 GCGCGCGG
103	8mer	0.063797	TGTGCGCC	453	8mer	0.04389	GCCGCCGC	803	8mer	0.036785 GTGCCGAA
104	8mer		TGCGCCGT	454	8mer	0.04387	GCCCCTGA	804	8mer	0.036765 TTTCCCGA
105	8mer		GCACCGAA	455	8mer	0.04382	CAAAGTAC	805	8mer	0.036755 GAATCCGG
106	8mer		AGGAGGGC	456	8mer	0.04381	GGAGGGCG	806	8mer	0.036745 CCGACTTT
107	8mer		AACCGCGG	457	8mer	0.04381	GGGGGTCG	807	6mer	0.036732 GAGCCC
108	8mer	0.063161	CGGTACTT	458	8mer	0.04379	GCCGGACT	808	8mer	0.036719 GTAGTGGG
100	8mer		CCCCAGCG	459	8mer	0.04379	GCGCCGGA	809	6mer	0.036697 GGCCCC
109	Qma-		ATACCGCC	460	8mer	0.04377	GCAACGTC	810	8mer	0.036678 CAAAAAA
109 110	8mer						ALTERACTOR	011	8mer	LOUDER WELCHOOM CATC
109 110 111	8mer	0.062913	TCCAGGCG	461	8mer	0.04377	ACCTAGAC	811		0.036676 GCGACATC
109 110		0.062913		461 462	8mer 6mer	0.04377	GCGCCG	812	8mer	0.036655 ACGGGTTC
109 110 111	8mer	0.062913 0.062893	TCCAGGCG							
109 110 111 112 113	8mer 8mer 8mer	0.062913 0.062893 0.062656	TCCAGGCG TCCCGCAC ACCGGACT	462 463	6mer 8mer	0.04376 0.04375	GCGCCG TTTTTGTA	812 813	8mer 8mer	0.036655 ACGGGTTC 0.036648 TTCAAGGT
109 110 111 112	8mer 8mer	0.062913 0.062893 0.062656 0.06263	TCCAGGCG TCCCGCAC	462	6mer	0.04376	GCGCCG	812	8mer	0.036655 ACGGGTTC

190 Senter DODGET ACTICOCO 190 Senter DOTES CCCCACCT 191 Senter DOSGET CACCTOCO 191 Senter											
177 Street 0.002231 CAAACCAC 167 Street 0.04552 AAGCTCCC 157 Street 0.02242 CAAAACCAC 168 Street 0.02242 CAAAAACCAC 168 Street 0.02242 CAAAACCAC 168 Street 0.02242 CAAAACCAC 168 Str	116	0mor	0.062440	TTCCCCCT	166	0mor	0.04271	CCAACCTA	016	Omor	U USERUO L CCCCCACT
18 Street COOCCAL CACAGATC G66 Street COURSE CACAGATC G67 GARDES GARD											
198 Remar 0.005211 ACTOCCCOS Seminar 0.044851 CCCCARCT 191 819 8 minar 0.038857 CACTAGOS 191 192 192 193 1		8mer				8mer				8mer	
200 Branet OBENEY TRACKICTIO 470 Branet OLMANO TICTATOCIC 200 Branet OLMANO CARLOS 122 Branet OLMANO CARLOS CARLOS 123 Branet OLMANO CARLOS CARLOS 124 Branet OLMANO CARLOS CARL	118	8mer	0.062312	CCAAGATC	468	8mer	0.04364		818	8mer	0.036599 CGTCAAGG
200 Branet OBENEY TRACKICTIO 470 Branet OLMANO TICTATOCIC 200 Branet OLMANO CARLOS 122 Branet OLMANO CARLOS CARLOS 123 Branet OLMANO CARLOS CARLOS 124 Branet OLMANO CARLOS CARL	119	8mer	0.062211	ATTGCCGG	469	8mer	0.04363	CCCGAACT	819	8mer	0.036577 GACTGCGA
123						_					
122 Street 0.064-771 GOSCOCCTO 172 Street 0.065-871 GOSCOCCA 173 Street 0.065-871 GOSCOCCA 175 Street 0.065-871 GO						_					
123						_					
124 Street O.						8mer				8mer	
125	123	8mer	0.061704	CGGGGCGA	473	8mer	0.04352	CGCCTATA	823	8mer	0.036528 ATGCACGC
125	124	8mer	0.061609	TCGTCCAA	474	8mer	0.04351	TATGTCGG	824	8mer	0.036518 TAACGAGG
200											
177 Store OBSTATE											
128						_					
129		8mer				8mer				8mer	
133 Smer O.061132 COGTICGO 480 Smer O.01330 COGTICTET 253 Smer O.002677 ACCOTTAT 132 Smer O.002676 COGTICGA 482 Smer O.01333 CAGCGGGGC 532 Smer O.002673 CAGCGGGC 135 Smer O.002673 CAGCGGGC 482 Smer O.01333 CAGCGGGGC 532 Smer O.002673 CAGCGGG 135 Smer O.002673 CAGCGGG 483 Smer O.002673 CAGCGGG 135 Smer O.002673 CAGCGGG 489 Smer O.02267 CAGCGG 481 Smer O.02267 CAGCGGG 481 Smer O.02267 CAGCGG 481 Smer O.02267 CAGCGG 481 Smer O.02267 CAGCGG 481 Smer O.02267 CAGCGG 482 Smer O.02267 CAGCGG 481 Smer O.02267 CAGCGG 483 Smer O.02267 CAGCGG 481 Smer O.02267 CAGCGG 481 Smer O.02267 CAGCGG 482 Smer O.02267 CAGCGG 483 Smer O.02267 CAGCGG 484 Smer O.02267 CAGCGG 4	128	6mer	0.061176	CCCCCG	478	8mer	0.04346	TTTGGCCA	828	8mer	0.036425 TCGGCTGT
133 Smer O.061132 COGTICGO 480 Smer O.01330 COGTICTET 253 Smer O.002677 ACCOTTAT 132 Smer O.002676 COGTICGA 482 Smer O.01333 CAGCGGGGC 532 Smer O.002673 CAGCGGGC 135 Smer O.002673 CAGCGGGC 482 Smer O.01333 CAGCGGGGC 532 Smer O.002673 CAGCGGG 135 Smer O.002673 CAGCGGG 483 Smer O.002673 CAGCGGG 135 Smer O.002673 CAGCGGG 489 Smer O.02267 CAGCGG 481 Smer O.02267 CAGCGGG 481 Smer O.02267 CAGCGG 481 Smer O.02267 CAGCGG 481 Smer O.02267 CAGCGG 481 Smer O.02267 CAGCGG 482 Smer O.02267 CAGCGG 481 Smer O.02267 CAGCGG 483 Smer O.02267 CAGCGG 481 Smer O.02267 CAGCGG 481 Smer O.02267 CAGCGG 482 Smer O.02267 CAGCGG 483 Smer O.02267 CAGCGG 484 Smer O.02267 CAGCGG 4	129	8mer	0.061146	TCGGTACT	479	8mer	0.04342	CCGCGATT	829	8mer	0.03639 CTATGTTG
131 Benner 0.008061 GEGGETGSA 481 Benner 0.04838 AGGCGGGG 822 Benner 0.008261 GEGTGTG GEGTTGTC 133 Benner 0.008061 GEGTGGG 483 Benner 0.04838 GEGTGGG 822 Benner 0.058261 GEGTGGG GEGTGG GEGTGGG GEGTGGG						_					
133											
133						_					
134											
150	133	6mer	0.060796	GTCGGA	483	8mer	0.04332	GTGTCGTA	833	6mer	0.036294 TGTCGG
150	134	8mer	0.060681	GGTCGTGG	484	8mer	0.0433	CTGCGAGT	834	8mer	0.03628 GACGGCCT
136						_					
131											
139											
130		8mer				8mer				8mer	
140	138	8mer	0.060568	CAAGCGAT	488	8mer	0.04325	GGGCGGTG	838	8mer	0.03619 CTACAGTA
140	139	8mer	0.060416	AGGGGATA	489	8mer	0.04325	CCGTTTCC	839	8mer	0.036189 TATAAGGT
141						_					
142						_					
144											
144						_					
144		8mer	0.060047	GGGCGCCC		8mer	0.04314	<u>AGCAT</u> TGC		<u>8me</u> r	0.036137 CTAAACCG
146	144	8mer	0.059996	TTGGGCGC	494	8mer	0.04313	ACGCGTAC	844		0.036132 TCGACG
146						_					
141 8 mer 0.059786 GCTTCCCC 492 8 mer 0.04399 ACCUGCAC 847 8 mer 0.05008 GAGGGACC 149 8 mer 0.05973 GCTTCACT 498 8 mer 0.04395 ACCUCGAC 849 8 mer 0.05008 GCGGGGCCC 151 8 mer 0.05959 CCAACATG 649 8 mer 0.04395 ATCCCGAC 849 8 mer 0.03604 ACGUCGAC 151 6 mer 0.05959 CCAACATG 650 8 mer 0.04395 ACCUCGAC 851 8 mer 0.03604 ACGUCGAC 151 6 mer 0.058325 GGGACC 501 8 mer 0.04297 CAGTACCT 851 8 mer 0.03604 ACGUCGAC 152 8 mer 0.058325 GGGACC 502 8 mer 0.04296 GAGATACT 851 8 mer 0.03604 TGTTATAT 155 8 mer 0.058268 GAGCGACC 505 8 mer 0.04296 GAGATACT 854 8 mer 0.05896 GGGCGCCC 156 8 mer 0.05896 GGGCGCCC 156 8 mer 0.05896 GGGCGCCC 156 8 mer 0.05896 GAGATACT 854 8 mer 0.05896 GGGCGCCC 156 8 mer 0.05896 GAGATACT 854 8 mer 0.05896 GGGCGCCC 156 8 mer 0.05896 GAGATACT 854 8 mer 0.05896 GAGATACT 855 8 mer 0.05896 GAGATACT 856 8 mer 0.05897 GAGTCAGC 508 8 mer 0.04296 GACATCCA 856 8 mer 0.05896 GAGATACT 156 8 mer 0.05897 GAGTCAGC 508 8 mer 0.04296 GACATCCA 856 8 mer 0.05896 GAGATACT 156 8 mer 0.05897 GAGTCAGC 508 8 mer 0.04286 GCCCCGGG 858 8 mer 0.05895 GCTAGAGC 508 8 mer 0.04286 GCCCCGGG 858 8 mer 0.05895 GCTAGAGC 509 8 mer 0.04286 GCCCCGGG 858 8 mer 0.05895 GCTAGAGC 509 8 mer 0.04286 GCCCCGGG 658 8 mer 0.05895 GCTAGAGC 509 8 mer 0.04286 GCCCCGGG 658 8 mer 0.05895 GCAACGC 650 8 mer 0.05897 GAGATCAGC 509 8 mer 0.04286 GCCCCGGG 658 8 mer 0.05897 GAGATCAGC 509 8 mer 0.04286 GCCCCGGG 658 8 mer 0.05897 GAGATCAGC 509 8 mer 0.04286 GCCCCGGG 658 8 mer 0.05897 GAGATCAGC 509 8 mer 0.04286 GCCCCGGG 658 8 mer 0.05895 GCAACGCG 658 8 mer 0.05897 GAGATCAGC 511 8 mer 0.05897 GAGATCAGC 512 8											
148											
149						_					
149	148	8mer	0.059737	GTGTTACT	498	8mer	0.04305	GAGCCCGG	848	8mer	
150						_		ATCCCGAC			
September 1951 Semer 0.059325 GGGACC 501 Semer 0.04296 GCCGGC 502 Semer 0.04296 GCCGGC 503 Semer 0.04296 GCCGGC 503 Semer 0.04296 GCAGTAGT S53 Semer 0.059029 CAGCGCCC 503 Semer 0.04296 GGAGTAGT S53 Semer 0.059029 GAGCGCGT S55 Semer 0.04296 GAGATAGT S54 Semer 0.059029 GAGCGCGT S55 Semer 0.04296 GAGATAGT S55 Semer 0.059029 GAGCGCGT S55 Semer 0.04296 GAGCGGTA S55 Semer 0.03999 CAGCGCGC S57 Semer 0.04296 GAGCGGTA S55 Semer 0.03999 CAGCGCGC S57 Semer 0.04296 GACGGGTA S56 Semer 0.03999 CAGCGCGC S57 Semer 0.04296 GACGGGTA S56 Semer 0.03999 GAGCGGTA S56 Semer CACCGGC S57 Semer CACCGGC S58 GAGCGGTA S58 GAGCGGGTA S57 Semer CACCGGC S58 GAGCGGGTA S57 Semer CACCGGC S58 GAGCGGGTA S57 Semer CACCGGC S58 GAGCGGGTA S51 Semer CACCGGC S58 GAGCGGGTA S51 Semer CACCGGC S58 GAGCGGGTA S51 Semer CACCGGC S58 Semer CACCGGC S68 S68 Semer CACCGGC S68 S68 Semer CACCGGC S68 S68 Semer CACCGGCC S68 S68 Semer CACCGGCC S68 S68 Semer CACCGGCC S68 S68 Se						_					
This The property This											
153						_					
154						_					
155	153	8mer	0.059292	CACGACCC	503	8mer	0.04296	CTTAAGTA	853	8mer	0.036005 TCCTGGGC
155	154	8mer	0.059268	CAACATGG	504	8mer	0.04296	GAGATACT	854	8mer	0.036004 TTGTTAAT
156						_					
157						_					
158											
159										8mer	
1610 8mer 0.058738 AGATCCCG 1610 8mer 0.04278 CCGGGCT 860 8mer 0.03583 AGCGCGGC 162 8mer 0.04278 CCGGGCT 860 8mer 0.03584 ACCGGGC 162 8mer 0.04278 CCGGGCT 862 8mer 0.03584 ACCGGGCGC 163 8mer 0.03583 AGGGCAGC 512 8mer 0.04273 CAGGGCCA 862 8mer 0.035848 CAAGGGC 164 8mer 0.058097 TAGGACAA 514 8mer 0.04273 CAGGCCAC 863 8mer 0.035831 ACCTGGAC 165 8mer 0.057861 ATCCCGG 516 8mer 0.04273 CAGGCCAC 864 8mer 0.035761 CGCGCGC 166 8mer 0.057861 ATCCCGG 516 8mer 0.04273 CAGGCCAC 865 8mer 0.035761 CGCGCGC 166 8mer 0.057861 CGCGTGT 517 8mer 0.057861 CGCGTT 517 8mer 0.057861 CGCGTT 518 8mer 0.04286 TCCCGG 866 8mer 0.035764 CGCTGT 167 8mer 0.057861 CGCGTAT 518 8mer 0.04286 TCCCGGT 867 8mer 0.035746 CGCTGTGT 170 8mer 0.057843 CGGACGTG 518 8mer 0.04261 CTCCGT 170 8mer 0.057843 CGGACGTG 520 6mer 0.04261 CGGCGGG 868 8mer 0.035764 CGCTGTGT 170 8mer 0.05746 CGCGGAG 520 6mer 0.04263 CTAACAT 868 8mer 0.035764 CGCTGGTG 171 8mer 0.05746 CGCGGAG 520 6mer 0.04263 CTAACAT 868 8mer 0.035764 CGCTGGTG 171 8mer 0.05746 CGCGGGGAG 520 6mer 0.04263 CTAACAT 870 8mer 0.035764 CAGGGGGAG 174 8mer 0.05785 CGCGGGGAA 523 8mer 0.04263 CGACGAG 870 8mer 0.035764 CAGGGGGAA 524 8mer 0.04263 CGACGGGA 870 8mer 0.03576 CAGGGGGAA 524 8mer 0.04263 CGACGGGA 871 8mer 0.03576 CAGGGGGAA 524 8mer 0.04263 CGACGGGAA 524 8mer 0.04263 CGACGGAA 524 8mer 0.04263 CGACGGGAA 524 8mer 0.04263 CGACGGGAA 524 8mer 0.04263 CGACGGGAA 525 8mer 0.04263 CGACGGGAA 526 6mer 0.04263 CGAC	158	8mer	0.058759	GGATCAGC	508	8mer	0.04286	CGCGCGGC	858	6mer	0.035953 CCAACG
1610 8mer 0.058738 AGATCCCG 1610 8mer 0.04278 CCGGGCT 860 8mer 0.03583 AGCGCGGC 162 8mer 0.04278 CCGGGCATA 8mer 0.038582 ACCGGGC 162 8mer 0.04278 CCGGGCCA 862 8mer 0.038582 ACCGGGCAC 163 8mer 0.03833 AGGGCGAC 512 8mer 0.04273 CAGGGCCAC 862 8mer 0.035848 CAAGGGC 164 8mer 0.058097 TAGGACAA 514 8mer 0.04273 CAGGCCAC 863 8mer 0.035831 ACCTGGAC 165 8mer 0.057861 CACTGGAC 516 8mer 0.035761 CGCGCGC 166 8mer 0.057861 ATCCCGC 516 8mer 0.04273 CAGGCCAC 864 8mer 0.035761 CGCGCGC 166 8mer 0.057861 CGCGTT 517 8mer 0.057861 CGCGTT 517 8mer 0.057861 CGCGTT 518 8mer 0.04280 CTCCTGT 518 8mer 0.057861 CGCGTT 518 8mer 0.04280 CTCCTGT 518 8mer 0.057861 CGCGTT 518 8mer 0.04280 CTCCTGT 518 8mer 0.057861 CGCGTT 517 518 8mer 0.04280 CTCCTGT 518 8mer 0.057861 CGCGTT 519 518	159	8mer	0.058752	AAACGTCG	509	8mer	0.04285	TGCTTTTT	859	8mer	0.035936 CGAGTTCT
161											
1612 8mer 0.05853 GGGCGAGC 512 8mer 0.04275 ATTICCGCC 862 8mer 0.035883 ACGGCGAC 164 8mer 0.058097 TAGGACAA 514 8mer 0.04273 CAGGCCAC 864 8mer 0.035761 CGACACGC 165 8mer 0.057561 GCCTGTGG 516 6mer 0.04273 CAGGCCAC 864 8mer 0.035761 CGACACGC 166 8mer 0.057646 AATCCCCC 516 6mer 0.04273 CAGGCCAC 865 8mer 0.035761 CGACACGC 167 8mer 0.057561 CGCCGTTA 517 8mer 0.04268 CACCCCC 867 867 8mer 0.035741 CTCCTGTG 167 8mer 0.057561 CGCCGTTA 517 8mer 0.04268 CTCCTCCT 867 8mer 0.035744 CTCCTGTG 169 8mer 0.057561 CGCCGTTA 517 8mer 0.04263 CTCAACAT 867 8mer 0.035744 CGCCGTG 170 8mer 0.057561 CGCCGAACG 519 8mer 0.04263 CTCAACAT 868 8mer 0.035744 CACCTGGC 171 8mer 0.057406 GCCGGAACG 520 6mer 0.04268 CGGCCAGA 869 8mer 0.035734 CACCGC 172 8mer 0.057561 CTCCTTCTAA 522 8mer 0.04265 CACAGATG 817 8mer 0.035735 CTCCTCTTAA 522 8mer 0.04265 CACAGATG 817 8mer 0.035746 CGCCATAA 173 8mer 0.057325 CCCGGGCAT 521 8mer 0.04258 CACAGATG 817 8mer 0.035746 CGCCATAA 173 8mer 0.057246 CACAGATG 522 8mer 0.04258 CACAGATG 817 8mer 0.035668 CACAGATG 174 8mer 0.057246 CACAGATG 523 8mer 0.04255 CTCCGCC 175 8mer 0.057246 CACAGATG 523 8mer 0.04255 CCCCGCAGAG 873 8mer 0.035668 CACAGATG 175 8mer 0.057246 CACAGATG 524 8mer 0.04255 CCCCGCAGAG 873 8mer 0.035668 CACAGATG 175 8mer 0.057246 CACAGATG 525 8mer 0.04255 CCCCGCAGGG 874 8mer 0.035668 CACAGATG 175 8mer 0.057246 CACAGATG 175 8mer 0.057246 CACAGATG 175 8mer 0.057246 CACAGATG 175 8mer 0.04255 CCCGCGGTG 175 8mer 0.035668 CACAGATG 175 8mer 0.055668 CACAGATG 175 8mer 0.055668 CACAGATG 175 8mer 0.055668 CACAGATG 175 8mer 0.055668 CACAGATG 175 8mer 0.0						_					
Barr 0.058338 ACGCGGAG 513						_					
164		8mer				8mer				6mer	
165	163	8mer	0.058336	ACGCGGAG	513	8mer	0.04274	CGAGGTCT	863	8mer	0.035833 ACCTCGAC
165	164	8mer	0.058097	TAGGACAA	514	8mer	0.04273	CAGGCCAC	864	8mer	0.035761 CGAACAGA
166						_					
167						_					
168						_					
169		8mer			517	8mer				8mer	
170	168	8mer	0.057561	GTAAACCG	518	8mer	0.04263	CTAAACAT	868	8mer	0.035744 GACCTGGG
170	169	8mer	0.057514	GGCCTATG	519	8mer	0.04261	CGGGCGAG	869	8mer	0.035735 GAACTCGT
171						_					
172	474	_	0.057400	00000110	504	_	0.04050	04040470	074	^	0.005740 04.000000
173							0.04258				
174		8mer				8mer				8mer	
175	173	8mer	0.057325	CGCGGGAA	523	8mer		GGACGCAA	873	6mer	0.03567 CGGAGC
175	174	8mer	0.057279	GGAATATC	524	8mer	0.04255	CCTGCGCC	874	8mer	0.035668 CAAGCGAA
176						_					
177											
178											
179											
180											
180	179	8mer	0.057143	GAGGGCAG	529	Triplet	0.04242		879	8mer	0.035577 TGGGCCCC
181	180	8mer			530	8mer	0.04237		880	8mer	0.035562 TAACCGCG
182											
183											
184											
185											
186						_					
186	185	8mer	0.05707	TCGTAGGG	535	8mer	0.04224	CAACGTCT	885	6mer	
187 8mer 0.056836 CGCCGTGT 537 8mer 0.04217 TCGAGAGC 887 6mer 0.035485 GCCCTA 188 6mer 0.056774 GGCGGG 538 8mer 0.04215 ACGGCCCA 888 8mer 0.035482 GGACCTAG 189 8mer 0.056504 GGAGCCGG 540 8mer 0.04213 AACTGCGG 889 8mer 0.035482 GGACCTAG 191 8mer 0.056504 ATAGCTAA 541 8mer 0.04207 CCAGGCAC 891 8mer 0.035432 CGCTTCTT 192 8mer 0.056455 CGGGATTC 542 8mer 0.04206 AGGTCGTA 892 8mer 0.035383 CCGTCTCTT 193 8mer 0.056377 CGGGCCCC 543 8mer 0.04206 AGCGAGG 893 8mer 0.035383 CCGGCGCG 195 8mer 0.056397 CGGGCCCC 545 8mer 0.04204 TGCTGGC 895							0.04222				
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189 8mer 0.056612 TGCGGTAA 539 8mer 0.04214 CCGTGGAA 889 8mer 0.035439 TAGTGTCC 191 8mer 0.056504 ATAGCTAA 541 8mer 0.04207 CCAGCAC 891 8mer 0.035424 CGTTCT 192 8mer 0.056455 CGGATTC 542 8mer 0.04207 CCAGCAC 891 8mer 0.035342 CGTTCTT 193 8mer 0.056458 GAGACGCC 543 8mer 0.04206 AGGTCGTA 892 8mer 0.035384 CCGAGCAC 194 8mer 0.056382 CGTGCTCG 544 8mer 0.04206 AGGCGACG 893 8mer 0.035383 CCGGGGTCG 195 8mer 0.056377 CGGACCC 545 8mer 0.04204 AGCGAGG 894 8mer 0.035364 CGGCGCG 195 8mer 0.056307 CGGACCC 546 8mer 0.04204 CGGAGGTT 896 8mer 0.035364 CGGCGCG 197 8mer 0.056307 CGGACCC 546 8mer 0.04204 CGGAGGTT 896 8mer 0.035351 AGCCGGGG 198 8mer 0.056307 CGGACCC 546 8mer 0.04204 CGGAGGTT 896 8mer 0.035351 AGCCGGGG 198 8mer 0.056099 AGCTACGC 547 8mer 0.04194 AGACGGTC 897 8mer 0.035331 ATCACTAG 199 6mer 0.055933 ATCGCGGG 548 8mer 0.04194 AGACGGTC 898 8mer 0.035218 CCCTTCGA 199 6mer 0.055933 ATCACAC 551 8mer 0.04181 CCGCACG 900 8mer 0.035216 CCCAGGCC 201 8mer 0.055933 AAAAATTA 554 8mer 0.04181 CCGGCCC 903 8mer 0.035113 CTCGGCTG 204 8mer 0.05548 AGACCGC 555 8mer 0.04181 CCCGCCCC 903 8mer 0.035031 CGGCCCAC 206 8mer 0.05548 AGACCGC 556 8mer 0.0417 CACCACTT 906 6mer 0.035071 CCGGCCC 206 8mer 0.05548 AGACCGC 556 8mer 0.0417 CACCACTT 906 6mer 0.035071 CCGGCAC 206 8mer 0.05548 AGACCGC 556 8mer 0.0417 CACCACTT 906 6mer 0.035071 CCGGCAC 206 8mer 0.05548 AGACCGCC 556 8mer 0.0417 CACCACTT 906 6mer 0.035071 CCGGCAC 206 8mer 0.05548 AGACCGCC 556 8mer 0.0417 CACCACTT 906 6mer 0.035071 CCGGCAC 206 206 8mer 0.05548 AGACCGCC 206 8mer 0.0417 CACCACTT 206 8mer 0.035071 CCGGCA											
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192 8mer 0.056455 CGGGATTC 542 8mer 0.04206 AGGTCGTA 892 8mer 0.035384 TCCCAACG 193 8mer 0.056438 GAGACGCC 543 8mer 0.04206 GCCCGGCA 893 8mer 0.035383 CCGGGGCC 194 8mer 0.056377 CGGGCCC 544 8mer 0.04204 TGCTGCGC 894 8mer 0.03536 CGGGCGC 196 8mer 0.056307 CGGAGCCC 546 8mer 0.04204 TGCTGCGC 895 8mer 0.03536 AGCCGGGC 197 8mer 0.056099 AGCTACGC 547 8mer 0.04194 GTTCCAC 895 8mer 0.03536 AGCCGGGC 198 8mer 0.056053 ATCGCGGG 548 8mer 0.04194 AGACGGTC 897 8mer 0.03528 CCCTTGGA 199 6mer 0.0550956 TCGCGCCG 550 8mer 0.04183 GCGAGGCC 898 8					541		0.04207		891		
193						_					
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195 8mer 0.056377 CGGGCCCC 545 8mer 0.04204 TGCTGCGC 895 8mer 0.03536 TGGGATTA 196 8mer 0.056307 CGGAGCCC 546 8mer 0.04204 CGGAGGTT 896 8mer 0.035351 AGCCGGG 197 8mer 0.056093 ACCCGGG 547 8mer 0.04194 GTTCCAC 897 8mer 0.035334 TTCACTAG 198 8mer 0.056047 TCCCGA 549 8mer 0.04194 CCATAGTG 898 8mer 0.03528 CCCTTCGA 200 8mer 0.055956 TCGCGCCG 550 8mer 0.04188 CGAAGGCG 900 8mer 0.03522 CTGCGCCT 201 8mer 0.055933 GATTCAAC 551 8mer 0.04183 GCCGCCAG 900 8mer 0.03522 CTGCGCCT 203 8mer 0.055895 CGCGC 552 8mer 0.04181 CCCGCCC 903 8mer <td></td>											
196						_					
196	<u> 19</u> 5	8mer	0.056377	CGGGCCCC	545	8mer	0.04204	TGCTGCGC	895	8mer	0.03536 TGGGATTA
197 8mer 0.056099 AGCTACGC 547 8mer 0.04194 GTTCCCAC 897 8mer 0.035334 TTCACTAG 198 8mer 0.056053 ATCGCGGG 548 8mer 0.04194 AGACGGTC 898 8mer 0.03528 CCCTTCGA 200 8mer 0.055956 TCGCGCCG 550 8mer 0.0418 CGACGGCG 900 8mer 0.03522 CTGCGCCG 201 8mer 0.055933 GATTCAAC 551 8mer 0.04183 GCGCCAG 900 8mer 0.03522 CTGCGCCG 202 6mer 0.055985 CGCCGC 552 8mer 0.04183 GCCGCCAG 901 6mer 0.03521 CCCAGG 203 8mer 0.055953 AAAAATTA 205 8mer 0.05533 AAAAATTA 205 8mer 0.05548 AGACCCGC 556 8mer 0.0417 CACCACTT 906 6mer 0.035071 CCGGCAG 206 8mer 0.05548 AGACCCGC 556 8mer 0.0417 CACCACTT 906 6mer 0.035071 CCGGCAG 206 206 8mer 0.05548 AGACCCGC 556 8mer 0.0417 CACCACTT 906 6mer 0.035071 CCGGCAG 206	196	8mer	0.056307	CGGAGCCC	546	8mer	0.04204	CGGAGGTT	896	8mer	0.035351 AGCCGGGG
198											
199 6mer 0.056047 TCCCGA 549 8mer 0.0419 CCATAGTG 899 6mer 0.035237 GGCCGG 200 8mer 0.055956 TCGCGCCG 550 8mer 0.04188 CGAAGGCG 900 8mer 0.03522 CTGCGCCT 201 8mer 0.055933 GATTCAAC 551 8mer 0.04183 GCCGCCAG 901 6mer 0.035216 CCCAGG 202 6mer 0.055895 CGCCGC 552 8mer 0.04181 CCCGCCCC 902 8mer 0.035126 CCCGGCG 203 8mer 0.055533 AAAAATTA 554 8mer 0.04181 TCGACCTC 903 8mer 0.035126 CACGCCAC 205 8mer 0.055492 CGGATCTA 555 8mer 0.04173 CCCGGAGG 905 8mer 0.035093 CGGCGCAC 206 8mer 0.05548 AGACCCGC 556 8mer 0.0417 CACCACTT 906 6mer <td></td>											
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25. S. 10. 10.000221 100 301 SING 0.0411 10.001000 301 SING 0.003000 CIGICOAC											
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2098 Benner 0.05526 GCCCGTGT 5582 Benner 0.04166 TCGCCCC 908 2010 Renner 0.056309 GGCGCATG 5660 Benner 0.04168 TCGCGTTG 910 2111 Benner 0.054509 GGCGCATG 5660 Benner 0.04168 TCGCGTTG 9110 2111 Benner 0.054509 GGCGCATG 5660 Benner 0.04168 TCGCGTTG 9110 2111 Benner 0.054509 AGAMACTG 5630 Benner 0.04168 GCCGCGG 2111 Benner 0.054509 AGAMACTG 5630 Benner 0.054518 AGATATACG 5630 Benner 0.054518 AGATATACG 5650 Benner 0.04141 GCCCGCG 9160 Benner 0.054509 AGAMACTG 5650 Benner 0.04141 GCCCGCCG 9160 Benner 0.054509 AGAGGGG 917 Benner 0.054509 AGAGGGG 917 Benner 0.054509 AGAGGGGG 917 Benner 0.054509 AGAGGGG 917 Benner 0.054509 AGAGGGGG 917 Benner 0.054509 AGAGGGGG 917 Benner 0.054509 AGAGGGGG 917 Benner 0.04131 AGAGGGG 917 Benner 0.054509 AGAGGGGG 917 Benner 0.04131 AGAGGGG 917 Benner 0.04131 AGAGGGGG 922 Benner 0.054509 AGAGGGGG 927 Benner 0.04131 AGAGGGGG 928 Benner 0.04131 AGAGGGGG 928 Benner 0.04131 AGAGGGGG 928 Benner 0.04131 AGAGGGGG 929 Benner 0.04131 AGAGGGGG 920 Benn								
2008	208	8mer	0.0552 GCCCTGGT	558	6mer	0.04166	TCGCCC	908
2010 Berner D055039 GGCCCATG Sept. Sept. D04183 CCGGTTG Sept. Sept. D04183 CCGGTTG Sept. Sept. Sept. D04181 CTCATG Sept.								
211 8 mer 0.05496 TGAGTCT 561 8 mer 0.04151 CTACCG 912 213 8 mer 0.05481 TGAGCG 562 8 mer 0.04151 CTACCG 913 214 8 mer 0.05481 CAAAACTG 563 8 mer 0.04145 ACAATGAG 913 214 8 mer 0.05481 CAAAACTG 563 8 mer 0.04145 ACAATGAG 913 214 8 mer 0.05481 CAAAACTG 564 8 mer 0.04145 ACCATGAG 913 215 215 8 mer 0.05481 ACAAGGAG 566 8 mer 0.04146 CGCCCGG 916 7 mer 7 mer								
213 8 mer 0.0548 GAGAATCG 563 8 mer 0.04148 CCCTCGTC 914			+					
214	212	8mer	0.054878 TTCAAGCG	562	6mer	0.04151	CTCACG	912
215		8mer					ACAATGAG	
216			+					
217 8mer 0.054391 ACCCGCAG 567 8mer 0.04142 CCGGGGCCC 917 918								
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2222 8mer 0,053902 AAAATIAG 577 8mer 0,04129 CCGTATT 922 224 8mer 0,053538 GACCCTCC 573 6mer 0,04121 TTCGCC 924 225 8mer 0,05392 ATGCAAGC 576 6mer 0,04121 TTCGCC 924 225 8mer 0,05392 ATGCAAGC 576 6mer 0,04121 TTCGCC 924 225 8mer 0,05392 CGCCAGC 576 8mer 0,05132 CGCCAGC 925 226 6mer 0,05323 CGCCAGC 576 8mer 0,05132 CGCCAGC 577 8mer 0,05132 CGCCAGC 578 6mer 0,05233 CGCCAGC 578 8mer 0,05132 CGCCAGC 578 8mer 0,04113 CATCAGC 927 229 8mer 0,05293 ACGCAGCG 578 8mer 0,04113 CATCAGC 932 229 8mer 0,05293 ACGCAGCG 580 8mer 0,05293 ACGCAGCG 580 8mer 0,05293 ACGCAGCG 581 8mer 0,04103 TTGCGGGA 931 232 8mer 0,05295 CTCGCGCG 582 8mer 0,04103 TTGCGGA 931 233 8mer 0,05295 ATGCAGCG 582 8mer 0,04103 TTGCGGA 934 235 8mer 0,05295 ATGCAGCG 582 8mer 0,04103 CATCGCGG 935 237 8mer 0,05295 CTCGCGCG 586 8mer 0,05295 CCGCAGCG 586 8mer 0,05295 CCGCAGCG 586 8mer 0,0403 CATCGCCG 935 237 8mer 0,05291 CCGCAGC 586 8mer 0,0403 CATCGCCG 935 239 8mer 0,05291 CCGAGGG 586 8mer 0,0403 CATCGCCG 936 8mer 0,05291 CCGAGGG 586 8mer 0,0403 CATCGCCG 936 8mer 0,0403 CATCGCCG 936								
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224								
226							TTCGCC	
227	225	8mer	0.053492 ATGCAACG	575	6mer	0.04121	AGGCAC	925
228	226	8mer			8mer	0.04118	GCCCGAGG	
229								
230 Bmer 0.052943 ACGGACGG 581 Bmer 0.04108 TAGCGGAA 391 232 Bmer 0.052845 GCGATGGG 581 Bmer 0.04108 TAGCGGAA 391 233 Bmer 0.052979 CTGGGGTC 583 Bmer 0.04095 CCGGTCTC 393 234 Bmer 0.052789 AATATTG 585 Bmer 0.04089 CCGGCTGC 393 235 Bmer 0.052979 GAATATTG 585 Bmer 0.04083 CAGGGCG 393 236 Bmer 0.052957 GAATATTG 585 Bmer 0.04083 CAGGGCG 393 237 Bmer 0.052952 GACGTAGG 587 Bmer 0.04083 CAGGGCG 393 238 Bmer 0.052492 CCGAAG 587 Bmer 0.04083 CAGGGCG 393 239 Bmer 0.052492 CCGAAG 588 Bmer 0.04083 CAGGGGG 393 240 Bmer 0.052492 CCGAAG 588 Bmer 0.0408 GGGACGG 393 240 Bmer 0.052492 CCGAAG 599 Bmer 0.0408 GGGACGG 393 241 Bmer 0.052492 CCGAAG 599 Bmer 0.0408 GGGACGG 341 242 Bmer 0.052492 GCCCGG 599 Bmer 0.0408 GGGATGA 340 243 Bmer 0.052492 GCCCGG 599 Bmer 0.0408 GGGATGA 341 244 Bmer 0.052492 GCCCGG 599 Bmer 0.0408 GGGATGA 341 245 Bmer 0.052492 GCCCGG 599 Bmer 0.0408 GGGATGA 342 246 Bmer 0.052492 GCCCGG 599 Bmer 0.0408 GGGATGA 342 247 Bmer 0.052492 GCGCGGG 598 Bmer 0.0407 GGGATGA 342 248 Bmer 0.052492 GCGCGGG 598 Bmer 0.0407 GGGATGA 342 249 Bmer 0.051893 CCGGAGGG 598 Bmer 0.04071 TGGGACCT 340 249 Bmer 0.051893 CCGGAGGG 598 Bmer 0.04071 TGGGACCT 340 249 Bmer 0.051893 CCGGAGGG 598 Bmer 0.04071 TGGGACCT 340 250 Bmer 0.051893 CCGGAGGG 600 Bmer 0.04068 GCGAATAC 340 251 Bmer 0.051893 CCGGAGGG 600 Bmer 0.04068 GCGAATAC 340 252 Bmer 0.051893 CCGGAGGG 600 Bmer 0.04068 GCGAATAC 340 253 Bmer 0.051893 GCGGCCC 600 Bmer 0.04068 GCGAACCC 595 254 Bmer 0.051893 GCGGCCG 600 Bmer 0.04068 GCGAACCC 595 255 Bmer 0.								
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236 6mer 0.052545 CCTGGG 586 8mer 0.0408 GGGACCGC 936								
237 8mer 0.052512 GACCTACC 587 8mer 0.0408 GAGACGC 937			+					
238			0.052512 GACCTAGC		8mer			
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2444 Smer 0.052338 CGGCCCCC 594 Smer 0.04079 CTGGGCCT 944								
245 8mer 0.052181 CGGGCCTA 595 8mer 0.04073 CCTGGGGT 946 247 8mer 0.052127 CCAGAGGG 597 8mer 0.04071 TGGGACCT 947 248 8mer 0.052127 CCAGAGGG 598 8mer 0.04069 CGTAATAC 948 249 8mer 0.05183 GCGGGG 599 6mer 0.04065 CTGAACC 949 250 8mer 0.05183 GCGGCC 600 8mer 0.04065 CTCGCC 949 251 8mer 0.05163 GCGGCC 600 8mer 0.04057 TCACGCA 951 252 8mer 0.05161 GCGCCATT 602 6mer 0.04057 TCACGCC 952 253 8mer 0.05161 GCGCATTC 602 8mer 0.04056 TGCTTACC 953 254 8mer 0.051301 TCAGATCG 604 8mer 0.04046 CACGCCTC 952								
246			+					
247			+					
249	247	8mer	0.052127 GCAGAGGG	597	8mer	0.04071	TGGGACCT	947
250 8mer 0.05183 GCGGCCC 251 8mer 0.05178 CGGCCC 252 8mer 0.051652 CGTGAGCC 252 8mer 0.051652 CGTGAGCC 253 8mer 0.051652 CGTGAGCC 253 8mer 0.051615 GGGTCGAG 254 8mer 0.051615 GGGTCGAG 255 8mer 0.051615 GGGTCGAG 255 8mer 0.051615 GGGTCGAG 255 8mer 0.051301 TCCAGCT 256 8mer 0.051301 TCCAGCT 257 8mer 0.051301 TCCAGCT 257 8mer 0.051239 ATTGCTG 258 8mer 0.051239 ATTGCTG 259 8mer 0.051239 ATTGCTG 259 8mer 0.051239 ATTGCTG 259 8mer 0.051239 ATTGCTG 250 8mer 0.051268 AGTGCGG 250 8mer 0.051086 AGTGCGG 261 8mer 0.0404 CACCCCG 958 262 8mer 0.050867 AGTGCGG 263 8mer 0.050867 AGTGCGG 264 6mer 0.050867 AGTGCGG 264 6mer 0.050868 AGTGCGG 265 8mer 0.050868 AGTGCGG 266 8mer 0.050868 AGTGCGG 266 8mer 0.050888 AGCCGAA 2667 8mer 0.050888 AGCCGAA 2667 8mer 0.050888 AGCCGAA 2667 8mer 0.050888 AGCCGAA 2667 8mer 0.050888 AGCCGGAA 2667 8mer 0.050898 AGCCGGAA 2668 8mer 0.050898 AGCCGGAA 2668 8mer 0.050898 AGCCGGAA 2669 8mer 0.050897 CGCCAGGC 270 8mer 0.050897 CGCCAGGC 271 8mer 0.050937 CGCCAGGC 272 8mer 0.050937 CGCCAGGC 273 8mer 0.050938 AGCCGGAA 267 8mer 0.050938 AGCCGGAA 267 8mer 0.050938 AGCCGGAA 267 8mer 0.050938 AGCCGGAA 267 8mer 0.050938 AGCCGGAA 268 8mer 0.040938 AGCGGGAC 278 8mer 0.050938 AGCCGGAC 278 8mer 0.050938 AGCCGGAC 278 8mer 0.050938 AGCCGGAC 288 8mer 0.040938 AGCGGGCC 288 8mer 0.040938 AGCGGGGC 288 8mer 0.040938 AGCGGGCC								
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255 8mer 0.051321 TCCCAGCT 605 8mer 0.04048 AACGGTT 956 256 8mer 0.051286 GAGCGCCA 607 8mer 0.0404 GAGCACCCS 957 258 8mer 0.051176 CAGAGTCG 608 8mer 0.0404 GAACGGG 958 259 8mer 0.051176 CAGAGTCG 609 8mer 0.0404 CACACCGG 958 260 8mer 0.051123 GCGTTCAG 610 8mer 0.0404 CGACAGGG 959 261 8mer 0.050988 ACGGGCAG 611 8mer 0.04037 TCCCTGGC 961 263 8mer 0.050856 ACGGGA 612 8mer 0.04037 GCCGGCTG 962 264 4 6mer 0.050856 ACCCGGAA 614 8mer 0.04033 TCCTACCT 965 266 8mer 0.050856 ACCCCGCAGC 618 8mer 0.04031 GGCCTAG 966 <td></td> <td></td> <td>+</td> <td></td> <td></td> <td></td> <td></td> <td></td>			+					
256			+					
258		8mer			8mer			
259	257	8mer	0.051286 GAGCGCCA	607		0.04046	GGGATCGC	957
260 8mer 0.051123 GCGTTCAG 610 8mer 0.0404 CGTCAGC 960 261 8mer 0.051068 GCTCCTCG 611 8mer 0.04039 TGGGGTGC 961 262 8mer 0.050986 ACGGCAG 612 8mer 0.04037 CCCCGAC 962 263 8mer 0.050856 ACGGGAA 614 8mer 0.04037 CCCCGAC 963 264 6mer 0.050856 ACGGGAA 614 8mer 0.04033 TCCTACCT 965 266 8mer 0.05088 AGCCCGAA 616 8mer 0.04033 TCCTACCT 966 267 8mer 0.050898 AGCCCCAAC 618 8mer 0.04031 CGGACGAA 967 269 8mer 0.050597 CCGCCAGC 619 8mer 0.04029 GGATTATA 969 271 8mer 0.05039 CGTCCAAT 620 8mer 0.04029 GGACCAAA 971								
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284 8mer 0.049934 GGAAACGG 634 8mer 0.03999 TATTGAAG 984 285 8mer 0.049918 GCGGTTCC 635 6mer 0.03993 GCGTTC 985 286 8mer 0.049887 CCTCCGTA 636 8mer 0.03991 CGAACTCG 986 287 8mer 0.049818 TTGGTGCT 637 8mer 0.03997 TAATCGAG 987 288 8mer 0.049787 CGGAGGCG 639 8mer 0.03987 TAATCGAG 988 290 8mer 0.049721 TGAACCCG 640 8mer 0.03985 CGCGAACG 990 291 8mer 0.049702 AATAGCCA 641 8mer 0.03983 CTGTGGGG 991 292 8mer 0.049702 AATAGCCA 642 8mer 0.03981 CGAGATGG 992 293 8mer 0.049633 AGCGGGGC 643 8mer 0.03981 CGGGAG 992 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
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287 8mer 0.049846 GATCGCGC 637 8mer 0.0399 CGCTAAAT 987 288 8mer 0.049818 TTGGTGCT 638 8mer 0.03987 TAATCGAG 988 289 8mer 0.049757 CGAGATCG 639 8mer 0.03987 AACCGAA 989 290 8mer 0.049721 TGAACCCG 640 8mer 0.03983 CTGTGGGG 990 291 8mer 0.049721 TGAACCCA 641 8mer 0.03981 CTCGCGG 991 292 8mer 0.049633 AGCGGGGC 642 8mer 0.03981 CCTCGCGG 992 293 8mer 0.049633 AGCGGGGC 643 8mer 0.03981 CGAGATGG 993 294 8mer 0.049554 GGTGAACC 644 6mer 0.03977 GCGAGA 994 295 8mer 0.049266 CACTGCAC 645 8mer 0.03963 CATGTAAT 996 <td></td> <td></td> <td>0.049918 GCGGTTCC</td> <td></td> <td></td> <td></td> <td>GCGTTC</td> <td></td>			0.049918 GCGGTTCC				GCGTTC	
288 8mer 0.049818 TTGGTGCT 638 8mer 0.03987 TAATCGAG 988 289 8mer 0.049787 CGGGAGCG 639 8mer 0.03987 AACCCGAA 989 290 8mer 0.049721 TGACCCG 640 8mer 0.03983 CGCGAACG 990 291 8mer 0.049702 AATAGCCA 642 8mer 0.03983 CGTGGGG 991 293 8mer 0.049633 AGCGGGGC 643 8mer 0.03981 CCTCGCGG 992 294 8mer 0.049554 GGTGAACC 644 6mer 0.03977 GCGAGA 295 8mer 0.049369 ATAAATGG 645 8mer 0.03976 GCCGGTCT 995 296 8mer 0.049266 CACTGCAC 646 8mer 0.03963 CATGTAAT 996 297 8mer 0.049125 TGCTGCG 647 8mer 0.03963 CATGTAGG 997								
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291 8mer 0.049721 TGAACCCG 641 8mer 0.03983 CTGTGGGG 991 292 8mer 0.049702 AATAGCCA 642 8mer 0.03981 CCTCGCGG 992 293 8mer 0.049633 AGCGGGGC 643 8mer 0.03981 CGAGATGG 993 294 8mer 0.049554 GGTGAACC 644 6mer 0.03977 GCGAGA 994 295 8mer 0.049369 ATAAATGG 645 8mer 0.03976 GCCGGTCT 995 296 8mer 0.049266 CACTGCAC 646 8mer 0.03963 CATGTAAT 996 297 8mer 0.049199 TGCCTGCG 647 8mer 0.03965 TCGCTCC 997 298 8mer 0.049125 CAAGGAGT 648 8mer 0.03955 TCGATGAG 998								
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293 8mer 0.049633 AGCGGGGC 643 8mer 0.03981 CGAGATGG 993 294 8mer 0.049554 GGTGAACC 644 6mer 0.03977 GCGAGA 994 295 8mer 0.049369 ATAAATGG 645 8mer 0.03976 GCCGGTCT 995 296 8mer 0.049266 CACTGCAC 646 8mer 0.03963 CATGTAAT 996 297 8mer 0.049199 TGCCTGCG 647 8mer 0.03963 TCGCGTCC 997 298 8mer 0.049125 CAAGGAGT 648 8mer 0.03955 TCGATGAG 998								
294 8mer 0.049554 GGTGAACC 644 6mer 0.03977 GCGAGA 994 295 8mer 0.049369 ATAAATGG 645 8mer 0.03976 GCCGGTCT 995 296 8mer 0.049266 CACTGCAC 646 8mer 0.03963 CATGTAAT 996 297 8mer 0.049199 TGCCTGCG 647 8mer 0.03963 TCGCGTCC 997 298 8mer 0.049125 CAAGGAGT 648 8mer 0.03955 TCGATGAG 998								
295 8mer 0.049369 ATAAATGG 645 8mer 0.03976 GCCGGTCT 995 296 8mer 0.049266 CACTGCAC 646 8mer 0.03963 CATGTAAT 996 297 8mer 0.049199 TGCCTGCG 647 8mer 0.03963 TCGCGTCC 997 298 8mer 0.049125 CAAGGAGT 648 8mer 0.03955 TCGATGAG 998								
297 8mer 0.049199 TGCCTGCG 647 8mer 0.0396 TCGCGTCC 997 298 8mer 0.049125 CAAGGAGT 648 8mer 0.03955 TCGATGAG 998	295		0.049369 ATAAATGG	645		0.03976	GCCGGTCT	995
298 8mer 0.049125 CAAGGAGT 648 8mer 0.03955 TCGATGAG 998								
233 MINEL 0.043102 CATTOCCO 049 MINER 0.03955 GGAGCACT 999								
	299	8mer	U.U491UZ CATTGCCG	649	8mer	U.U3955	GGAGCACT	999

908	8mer	0.035065	TAGTGGGA
909	8mer	0.035051	CTCAGCCT
910	8mer	0.03505	GGCCGCTC
911	8mer	0.035019	GGCCAGGT
912	8mer	0.035018	TTCACGCC
913	8mer	0.035013	CTGGCCAC
914	8mer	0.034942	CTGGGCTG
915	8mer	0.034939	GTCGGAAA
916	8mer	0.034897	GCACTTGT
917	8mer	0.034893	TCGCTTGA
918	8mer	0.034842	ACTCAGTG
919	8mer	0.034833	GAACTTAA
920	8mer	0.034822	CCCCAGGC
921	8mer	0.034799	TCCCGCAA
922	8mer	0.034779	TCTTAAGT
923	8mer	0.034736	TGTGGCCG
924	8mer	0.034735	CCCTGATT
925	8mer	0.03473	CGCAAAAG
926	8mer	0.034724	ACAAGCGA
927	8mer	0.034711	CGGGCGTT
928	8mer	0.034709	GAGGGCCT
929	8mer	0.034708	GGCGTCGG
930	8mer	0.034707	ACCAGGGG
931		0.034707	AGGCACCT
	8mer		7 (0 0 0
932	8mer	0.034691	CTAATGGT
933	8mer	0.034684	ACCGCTGG
934	6mer	0.034677	GGGCAG
935	6mer	0.034677	AGGCCG
936	8mer	0.034665	CATGGCAT
937	8mer	0.034628	GCGTTGTT
938	6mer	0.034587	TGTTGG
939	8mer	0.034567	CACCGAAG
940	6mer	0.034562	CCCGGC
941	8mer	0.034557	CTGAAAAA
942	8mer	0.034523	CGCGGGAG
943	6mer	0.034513	CCAGGC
944	8mer	0.034485	CGGTTAAC
945	8mer	0.034454	CGGGAGTT
946	8mer	0.03441	CGCCGCCT
947	8mer	0.034398	CCCTCACG
948	8mer	0.034398	AGGGCCGG
949	8mer	0.034374	CCCGGGCT
950	8mer	0.034374	AGGGGCGT
951	8mer	0.034352	GGGGGACG
952			
	8mer	0.034348	CCGTATTA
953	8mer	0.034348	GGATTACA
954	6mer	0.034343	CGAGAT
955	8mer	0.034336	CCCTACCA
956	8mer	0.03431	GAAATTGA
957	8mer	0.034267	GTCGGACC
958	6mer	0.034264	CTAGCG
959	8mer	0.034215	TTTTGTAT
960	8mer	0.034207	CCGGGCAT
200	8mer	0.034187	TTGGAAAG
961		0.034168	GATGCCCG
	8mer		OTOGGGGG
961 962	0	0.034158	000000
961 962 963	8mer	0.034158	
961 962 963 964	8mer 8mer	0.034099	CCGGGGCG
961 962 963 964 965	8mer 8mer 8mer	0.034099 0.034094	CCGGGGCG GAAGGCGG
961 962 963 964 965 966	8mer 8mer 8mer 8mer	0.034099 0.034094 0.034065	CCGGGGCG GAAGGCGG GCAATGCG
961 962 963 964 965 966 967	8mer 8mer 8mer 8mer 8mer	0.034099 0.034094 0.034065 0.034064	CCGGGGCG GAAGGCGG GCAATGCG TCCCCTCG
961 962 963 964 965 966 967 968	8mer 8mer 8mer 8mer 8mer	0.034099 0.034094 0.034065 0.034064 0.034041	CCGGGGCG GAAGGCGG GCAATGCG TCCCCTCG GCCCACAA
961 962 963 964 965 966 967 968 969	8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.034099 0.034094 0.034065 0.034064 0.034041 0.034036	CCGGGGCG GAAGGCGG GCAATGCG TCCCCTCG GCCCACAA GCTGCTAG
961 962 963 964 965 966 967 968 969	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.034099 0.034094 0.034065 0.034064 0.034041 0.034036 0.034008	CCGGGGCG GAAGGCGG GCAATGCG TCCCCTCG GCCCACAA GCTGCTAG GGCGGCAC
961 962 963 964 965 966 967 968 969 970	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.034099 0.034094 0.034065 0.034064 0.034041 0.034036 0.034008 0.034007	CCGGGGCG GAAGGCGG GCAATGCG TCCCCTCG GCCCACAA GCTGCTAG GGCGGCAC ACCTGGTC
961 962 963 964 965 966 967 968 969 970 971	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.034099 0.034094 0.034065 0.034064 0.034041 0.034036 0.034008 0.034007 0.033999	CCGGGGCG GAAGGCGG GCAATGCG TCCCCTCG GCCCACAA GCTGCTAG GGCGGCAC ACCTGGTC AACAAGCG
961 962 963 964 965 966 967 968 969 970 971 972	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.034099 0.034094 0.034065 0.034064 0.034041 0.034036 0.034008 0.034007 0.033999 0.03399	CCGGGGCG GAAGGCGG GCAATGCG TCCCCTCG GCCCACAA GCTGCTAG GGCGGCAC ACCTGGTC AACAAGCG TGCCTAAG
961 962 963 964 965 966 967 968 969 970 971 972 973	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.034099 0.034094 0.034065 0.034064 0.034041 0.034036 0.034008 0.034007 0.033999 0.033995	CCGGGGCG GAAGGCGG GCAATGCG TCCCCTCG GCCACAA GCTGCTAG GGCGGCAC ACCTGGTC AACAAGCG TGCCTAAG TACAAGCG
961 962 963 964 965 966 967 968 969 970 971 972 973 974	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.034099 0.034094 0.034065 0.034064 0.034041 0.034036 0.034007 0.033999 0.033999 0.033995	CCGGGGCG GAAGGCGG GCAATGCCG TCCCCTCG GCCCACAA GCTGCTAG GCCGGCAC ACCTGGTC AACAGCAG TACAAGCG CTGGTCTC
961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.034099 0.034094 0.034065 0.034064 0.034041 0.034036 0.034007 0.033999 0.033995 0.033995 0.0339927	CCGGGGCG GAAGGCGG GCAATGCG TCCCTCG GCCCACAA GCTGCTAG GCGGCAC AACAGCG TGCCTAG TACAAGCG TACAAGCG TACAAGCG TACAGCG TACAGCG TACAGCG TGCGCCC
961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.034099 0.034094 0.034064 0.034064 0.034064 0.034036 0.034007 0.034007 0.033999 0.033999 0.033995 0.033927 0.033917	CCGGGGCC GAAGGCGG GCAATGCG GCCACAA GCTGCTAG GGCGGCAC ACCTGGTC ACCTAGC TGCCTAAG TACAAGCG TGCCTAAG TACAAGCG CTGGTCTC GGTCTCGA
961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.034099 0.034094 0.034064 0.034064 0.034064 0.034036 0.034008 0.034007 0.033999 0.033995 0.033995 0.033997 0.033917	CCGGGGCG GAAGGCG GCAATGCG GCCACAA GCTGCTAG GCGGCACA ACCTGGTC AACAAGCG TGCCTAAG TACAAGCG CTGGTCTC GGCCCAAA TACAAGCA TACAAGCA TACAAGCA TACAAGCA TACAAGCA TACAAGCA TACAAGCA TACAACA TATGATAC
961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.034099 0.034094 0.034064 0.034064 0.034036 0.034036 0.034008 0.034007 0.033999 0.033995 0.033952 0.033911 0.033911	CCGGGGCG GAAGGCG GCAATGCG GCCACAA GCTGCTAG GCGGCACA ACCTGGTC AACAAGCG TACAAGCG TGCTAAG TACAAGCG CTGGTCTC GGCCCCA TACGACC TACGACC TACGACC TGCCCCA TATGATAC CCGCGCTT
961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.034099 0.034094 0.034065 0.034064 0.034064 0.034036 0.034007 0.033999 0.033995 0.033952 0.033917 0.033917 0.033917	CCGGGGCG GAAGGCGG GCAATGCG GCCACAA GCTGCTAG GCCGGCAC ACCTGGTC AACAAGCG TACCAAG TACAAGCG CTGGTCTC TGCGCC GGTCTCGA TATGATAC CCGCGCTT GATTITTA
961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.034099 0.034094 0.034065 0.034064 0.034064 0.034036 0.034007 0.033999 0.033995 0.033995 0.033917 0.033911 0.033911 0.03396	CCGGGGCC GAAGGCGG GCAATGCG GCCACAA GCTGCTAG GCCGCACA ACCTGGTC AACAAGCG TACAAGCG TACAAGCG TACAAGCG TACAAGCG TACAAGCG TACAAGCC TACAAGCC GGTCTCGA TATGATAC CCGCGCTT GATTITTA GCACCCCT
961 962 963 964 965 966 967 970 971 972 973 974 975 976 977 978 979 981 982	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.034099 0.034094 0.034064 0.034064 0.034064 0.034007 0.034007 0.033999 0.033995 0.033997 0.033917 0.033917 0.033917 0.033863	CCGGGGCG GAAGGCG GCAATGCG GCCACAA GCTGCTAG GCGGCACA ACCTGGTC TGCCTAAG TACAAGCG TGCCTAAG TACAAGCG TGCTCGA TACAAGCG TGCTCGA TATGATAC CCGCGCTT GATTITTA GCACCCCT CCTCCC
961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.034099 0.034094 0.034065 0.034064 0.034064 0.034036 0.034007 0.033999 0.033995 0.033995 0.033917 0.033911 0.033911 0.03396	CCGGGGCC GAAGGCGG GCAATGCG GCCACAA GCTGCTAG GCCGCACA ACCTGGTC AACAAGCG TACAAGCG TACAAGCG TACAAGCG TACAAGCG TACAAGCG TACAAGCC TACAAGCC GGTCTCGA TATGATAC CCGCGCTT GATTITTA GCACCCCT
961 962 963 964 965 966 967 970 971 972 973 974 975 976 977 978 979 981 982	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.034099 0.034094 0.034064 0.034064 0.034064 0.034007 0.034007 0.033999 0.033995 0.033997 0.033917 0.033917 0.033917 0.033872 0.033872	CCGGGGCG GAAGGCG GCAATGCG GCCACAA GCTGCTAG GCGGCACA ACCTGGTC TGCCTAAG TACAAGCG TGCCTAAG TACAAGCG TGCTCGA TACAAGCG TGCTCGA TATGATAC CCGCGCTT GATTITTA GCACCCCT CCTCCC
961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.034099 0.034094 0.034064 0.034064 0.034064 0.034036 0.034007 0.033999 0.033999 0.033995 0.033917 0.033917 0.033911 0.033963 0.033863 0.033863 0.033863 0.033778 0.033778	CCGGGGCG GAAGGCG GCAATGCG GCCACAA GCTGCTAG GCGGCACA ACCTGGTC TACAAGCG TACAAGCG TACAAGCG TACAAGCG TACAAGCG TATGATAC TATGATAC CCGCGCTT GATTTTTA GCACCCC CCCTACAC CCGCTACCC
961 962 963 964 965 966 967 968 970 971 972 973 974 975 976 977 978 979 980 981 982 983	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.034099 0.034094 0.034064 0.034064 0.034064 0.03408 0.034008 0.033999 0.033995 0.033995 0.033917 0.033917 0.03391 0.033863 0.033863 0.033863	CCGGGGCG GAAGGCG GCAATGCG GCCACAA GCTGCTAG GCGGCACA ACCTGGTC AACAAGCG TACAAGCG TACAAGCG TACAAGCG TACAAGCG TACAAGCG TACAAGCG TATGATAC CCGCGCTT GCATTITA GCACCCCT CCCCCCCCCCCCCCCCCCCCCCCCCCCC
961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 999 980 981 982 983 984	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.034099 0.034094 0.034064 0.034064 0.034064 0.034036 0.034007 0.033999 0.033999 0.033995 0.033917 0.033917 0.033911 0.033963 0.033863 0.033863 0.033863 0.033778 0.033778	CCGGGGCC GAAGGCGG GCAATGCG GCCACAA GCTGCTAG GCTGCTAG GCCGCACA ACCTGGTC AACAAGCG TACCAAG TACAAGCG TACAAGCT TACAAGCG TACAAGCT TACAAGCT TACAAGCT TACAAGCT TACAAGCT TACAAGCT TACAAGCT TATGATAC CCCGCTT CATTITIA GCACCCT CCTCCC CCGTAGAC TCGTGACA GTCCTGG
961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 999 980 981 982 983 984 985	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.034099 0.034094 0.034064 0.034064 0.034064 0.034007 0.034007 0.033999 0.033999 0.033991 0.033917 0.033917 0.033917 0.033872 0.033872 0.033863 0.033863 0.033762	CCGGGGCC GAAGGCG GCAATGCG GCCACAA GCTGCTAG GCGGCAC ACCTGGTC TGCCTAAG TACAAGCG TGCCTAAG TACAAGCG TGCTCAA TATGATAC CCGCGCTT GATTITTA GCACCCCT CCTCCC CCGTAGAC TCGTGACA TCGTGACA TCGTGACA GCACCCCT CCTCCC CCGTAGAC TCGTGACA TCGTGACA TCGTGACA TCGTGACA TCGTGACA TCGTGACA GTGCCTAA
961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.034099 0.034094 0.034064 0.034064 0.034064 0.03408 0.034008 0.034007 0.033999 0.033995 0.033995 0.033917 0.033917 0.033917 0.033863 0.033863 0.033768 0.033762 0.033762	CCGGGGCG GAAGGCG GCAATGCG GCCACAA GCTGCTAG GCGGCACA ACCTGGTC ACCTGGTC ACCTAGTC TGCACA TACAAGCG TACAAGCG TACAAGCG TATGATAC CCGCGCTT GATTITTA GCACCCCT CCTCCC CCGTAGAC TCGTGACA TCGTGCTAA
961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 980 981 982 983 984 985 988	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.034099 0.034094 0.034065 0.034064 0.034064 0.034036 0.034007 0.033999 0.033999 0.033995 0.033952 0.033917 0.033917 0.033917 0.033872 0.033869 0.033762 0.033762 0.033764 0.033764 0.033764 0.033764 0.033696	CCGGGGCC GAAGGCGG GCAATGCG GCCACAA GCTGCTAG GCCGCACA GCTGCTAG GCCGCACA ACCTGGTC AACAAGCG TGCCTAAG TACCAGCC TGCCTCG GCCCACAA CTGCTCAAG TACAAGCG TACAAGCC GGTCTCGA TATGATAC CCCGCGTTCCC CCGTAGAC CCGCGCT CATTITA GCACCCC CCGTAGAC GTCCCCC GAATTAC GTGCCTAG GTGCCTAG GTGCCTAG GTGCCTAG GCCCACAC
961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 987 988 987 988 989 999	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.034099 0.034094 0.034065 0.034064 0.034064 0.034036 0.034007 0.033999 0.033999 0.033995 0.033917 0.033917 0.033917 0.033874 0.033863 0.033863 0.033762 0.033762 0.033762 0.033764 0.033763	CCGGGGCC GAAGGCG GCAATGCG GCCACAA GCTGCTAG GCCGCACAA GCTGCTAG GCCGCACAA GCTGCTAG GCCGACAA GCTGCTAG GCCGACAA GCTGCTAAG TACAAGCG TGCCTAAG TACAAGCG TGCGCC GGTCTCGA TATGATAC CCGCGCTT GCTCCC CCGTAGAC TCCTCCC CCGTAGAC GTCCTGG
961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 977 978 979 980 981 982 983 984 985 986 987 988 989 999 990 991	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.034099 0.034094 0.034064 0.034064 0.034064 0.034007 0.034007 0.033999 0.033995 0.033917 0.033762 0.033762 0.033762 0.033763 0.033764 0.033693 0.033693 0.033693	CCGGGGCC GAAGGCG GCAATGCG GCCACAA GCTGCTAG GCGGCAC ACCTGGTC AACAAGCG TGCCTAAG TACAAGCG TGCTAAG TACAAGCG TGCTCAAG TACAAGCG TGCTCCA TATGATAC CCGCGCTT GCTCCC CCGTAGAC TCGTGCC CCGTAGAC TCGTGCC CCGTAGAC TCGTGCC CCGTAGAC TCGTGACA TATGATAC CCGCCCT CCTCCC CCGTAGAC TCGTGACA TCGTGACA TCGTGACA TCGCACAC CCGCCGTT CCCCC CCAATTAC CCGCCGTT CCCCC CCGTAGAC CCGCCGTT CCCCC CCGTAGAC CCGCCGTCCCC CCGCGCTT CCCCC CCGCCGTT CCCCCC CCGCCGTT CCCCCC CCGCCGTT CCCCCCCC
961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 980 981 982 983 984 985 986 987 988 989 990 991 992	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.034099 0.034094 0.034064 0.034064 0.034064 0.03408 0.034008 0.034009 0.033999 0.033999 0.033991 0.033917 0.033917 0.033917 0.033917 0.033917 0.033917 0.033917 0.033917 0.033863 0.033762 0.033762 0.033764 0.033696 0.033697 0.033697 0.033697 0.033697 0.033697	CCGGGGCG GAAGGCG GAAGGCG GCAATGCG GCCCCCACA GCTGCTAG GCGGCAC ACCTGGTC TACAAGCG TACAAGCG TACAAGCG TACAAGCG TATGATAC TATGATAC CCGCGTCTCGA TATGATAC CCTCCC CCGTAGAC TCGTGACA TCGTGCCTAC TCGTGCTAC TCCTCGG TCCCCC CCGCGTT
961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 980 981 982 983 984 985 986 987 988 989 999 991 992 993	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.034099 0.034094 0.034065 0.034064 0.034064 0.034036 0.034007 0.033999 0.033999 0.033952 0.033952 0.033917 0.033917 0.033869 0.033869 0.033767 0.033767 0.033617 0.033617	CCGGGGCC GAAGGCGG GCAATGCG GCCACAA GCTGCTAG GCCGCACA GCTGCTAG GCCGCACA ACAGCG TACAAGCG TACAAGCG TACAAGCG TACAAGCG TACAAGCC CTGCCC GGTCTCGA TATGATAC CCTCCC CCGCAGAC GCTCCCC CCGTAGAC GTCCCCC CCGTAGAC GTCCCCC CCGCGAGAC GTCCCCC CCGCGCGAC GTCCCC CCGCCGCGACAC CTCCCC CCGCCCC CGCAGACC CTCCCC CCGCCGCACAC CTCCCC CCGCCGCACAC CTCCCC CCGCCGCACAC CTCCCC CCGCCGCACAC CCCCCCCCCC
961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 989 990 991 992 993 994	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.034099 0.034094 0.034065 0.034064 0.034064 0.034036 0.034007 0.033999 0.033999 0.033995 0.033917 0.033917 0.033911 0.03396 0.033872 0.033872 0.033714 0.033762 0.033762 0.033762 0.033763 0.033603 0.033603	CCGGGGCC GAAGGCG GCAATGCG GCCACAA GCTGCTAG GCCGCACAA GCTGCTAG GCCGCACAA GCTGCTAG GCCGCACAA GCTGCTAG GCCGCACAA GCTGCTAG TACAAGCG TACAAGCG TACAAGCG TACAAGCG TACAAGCG TACAAGCC TGCGCC GGTCTCGA TATGATAC CCGCGCTT CCTCCC CCGTAGAC TCGTGACA GTGCTAA ACTGCGAT ACTGCGAA ACTGCCAC CCGCCGTT CCTCCG CCGCCGTT CCTCCG CCGCCGTT CCTCCG CCGCCGTT CCTCCG CCGCCGTT CCTCCG CCGCACCGA TATGACAC TGCCCAA TACACCCT CCTCCG CCGCCGTT CCTCCG CCGCACCGA TGTTACAT TGACGGGC
961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 977 978 979 980 981 982 983 984 985 986 987 988 999 991 992 993 994 995	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.034099 0.034094 0.034064 0.034064 0.034064 0.034007 0.034007 0.033999 0.033995 0.033917 0.033762 0.033762 0.033602 0.033562 0.033562	CCGGGGCC GAAGGCGG GCAATGCG GCCACAA GCTGCTAG GCCGCACA GCTGCTAG GCCGCACA ACCTGGTCTA TACAAGCG TGCCTAAG TACAAGCG TGCTCCC GCTCCC GCTCCC CCTCCC CCGTAGAC TCGTGCAC TCGTGCAC TCGTGCC CCTCCC CCTCCG CCCCC CCCCC CCCCC CCTCCC CCTCCG CCCCC CCCCC CCCCC CCCCC CCCCC CCCCC CCCC
961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 997 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.034099 0.034094 0.034064 0.034064 0.034064 0.034007 0.033999 0.033999 0.033997 0.033917 0.033917 0.033917 0.033917 0.033917 0.033917 0.033917 0.033917 0.033917 0.033917 0.033863 0.033762 0.033764 0.033673 0.033673 0.033672 0.033561 0.033561 0.033552	CCGGGGCC GAAGGCG GCAATGCG GCCACAA GCTGCTAG GCGGCAC ACCTGGTC TGCCCACAA ACCAGGC TGCACAAG TACAAGCG TGCACAA TACAAGCG TGCTCGA TATGATAC CCGCGTTT GATTITTA GCACCCCT CCTCCC CCGTAGAC TCGTGACA TCGTGACA TCGTGACA TCGTGACA TCGCCCAC CCCCCC CCGTAGAC TCGTGACA TCGCCACAC CCCCCTCC CCGTAGAC TCGCCCC CCGTAGAC TCGCCCC CCGCACACAC TCGCCCC CCACCCCT CCTCCC CCGACACAC TCGCCCGT CCTCCC CCGACACAC TCGCCGCCGT CCTCCC CCGCGTT CCTCCG CCGCACCAC TCTTACAT TCTTACAT TCTTACAT AATACGGAC AATACGGAC AATACGGAC AATACGGAC AATACGGAC
961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.034099 0.034099 0.034096 0.034065 0.034064 0.034036 0.034007 0.033999 0.033999 0.033952 0.033952 0.033952 0.033952 0.033952 0.033952 0.033952 0.033952 0.033952 0.033952 0.033869 0.033767 0.033767 0.033612 0.033612 0.033552 0.033562 0.033562	CCGGGGCC GAAGGCGG GCAATGCG GCCACAA GCTGCTAG GCCGCACA GCTGCTAG GCCGCACA ACAGCG TACAAGCG TACAAGCG TACAAGCG TACAAGCG TACAAGCG TAGAGCA TATAGTAC CCGCGCAC CCGCACA GCTGCC CCGCACA GTCCCC CCGTAGAC GTCCCC CCGTAGAC GTCCCC CCGTAGAC GTCCCC CCGCAGAC GTCCCC CCGCAGAC GTCCCC CCGCAGAC GTCCCC CCGCAGAC GTCCCC CGAATTAC GTCCCTAC GTTCCC CGCAGCA TATACACAC GTCCCC CGAATTAC TACACAC GTCCCC CGAATTAC TACACAC CCGCAGCA TATACACAC TACACAC TACAC
961 962 963 964 965 966 967 970 971 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.034099 0.034094 0.034064 0.034064 0.034064 0.034064 0.034036 0.034007 0.033999 0.033999 0.033995 0.033952 0.033917 0.033917 0.033917 0.033917 0.033917 0.033917 0.033969 0.033762 0.033762 0.033617 0.033617 0.033617 0.033617 0.033516 0.033552	CCGGGGCC GAAGGCGG GCAATGCG GCCACAA GCTGCTAG GCCGCACAA GCTGCTAG GCCGCACA GCTGCTAG GCCGCACA ACAGCG TACAAGCG TACAAGCG TACAAGCG TACAAGCG TACAAGCA TACAAGCG TACAAGCA TACAAGCG CTGCTCGA TATGATAC CCCCCGTTCCC CCGTAGAC TCGTGACA GTGCCTAA GCACACG CCACACG CCACACG CCACACG CCACACG CCCCGTT CCTCCG CCGCTT CCTCCG CCGCTT CCTCCGC CCGAATTAC TGACACG CAATTAC TGACACG CAACCGCGT TCTCGGACA TACACCACG CCCCCGTT CCTCGG CCACACG CCACCGT TCTCGG AATACGGA ATACGGA ATACGGA ATACGGA ATACGGA ATACGGA ATACCGCC AACCCCCC AACCCCCC
961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.034099 0.034099 0.034096 0.034065 0.034064 0.034036 0.034007 0.033999 0.033999 0.033952 0.033952 0.033952 0.033952 0.033952 0.033952 0.033952 0.033952 0.033952 0.033952 0.033869 0.033767 0.033767 0.033612 0.033612 0.033552 0.033562 0.033562	CCGGGGCC GAAGGCGG GCAATGCG GCCACAA GCTGCTAG GCCGCACA GCTGCTAG GCCGCACA ACAGCG TACAAGCG TACAAGCG TACAAGCG TACAAGCG TACAAGCG TAGAGCA TATAGTAC CCGCGCAC CCGCACA GCTGCC CCGCACA GTCCCC CCGTAGAC GTCCCC CCGTAGAC GTCCCC CCGTAGAC GTCCCC CCGCAGAC GTCCCC CCGCAGAC GTCCCC CCGCAGAC GTCCCC CCGCAGAC GTCCCC CGAATTAC GTCCCTAC GTTCCC CGCAGCA TATACACAC GTCCCC CGAATTAC TACACAC GTCCCC CGAATTAC TACACAC CCGCAGCA TATACACAC TACACAC TACAC

1000	0mor	0.022512	CTGCTGTT
1000	8mer	0.033512	

300	8mer	0.048983	GCCAGAGT	650	8mer	0.03951	AACG
301	8mer	0.0489	GGCGCCCA	651	8mer	0.03949	CGGC
302	8mer	0.048871	AGCCGCAT	652	8mer	0.03941	GCGC
303	8mer	0.048848	CTCACGGG	653	8mer	0.03941	CTCG
304	8mer	0.048843	CTTCCCTA	654	8mer	0.03938	CGAA
305	6mer	0.048775	CCCGGG	655	8mer	0.03936	CAAT
306	8mer	0.048756	GATCGTCG	656	8mer	0.03936	TCGA
		_				_	
307	8mer	0.048723	GGCTATTG	657	8mer	0.03927	TATA
308	6mer		CCGGTC	658	8mer	0.03922	GGCG
309	8mer	0.04869	GGGACTGA	659	8mer	0.03921	GGTA
310	8mer	0.048651	TGAACACG	660	8mer	0.03919	GGTC
311	8mer	0.048619	GGGCGGGG	661	8mer	0.03918	TTTTT
312	8mer	0.048591	ACTGTGGG	662	8mer	0.03918	CCGC
313	8mer	0.048586	GACCCGCA	663	8mer	0.03915	TGGG
314	8mer	0.048551	AGACCTGG	664	8mer	0.03913	TACCO
315	8mer	0.048515	GACTCGCG	665	8mer	0.03909	CATG
316	8mer	0.048481	CGCCGCCG	666	8mer	0.03906	CCCG
317	8mer	0.048465	CGGGAGCG	667	8mer	0.03904	AACT
318	8mer	0.048459	CGCCCGGC	668	8mer	0.039	GCAG.
319	8mer	0.048409	GGCGCGGC	669	8mer	0.039	CACG
320	8mer	0.048382	ATCGTCGT	670	6mer	0.039	GCC
321	8mer	0.048319	GTTGTACG	671	8mer	0.039	GCAT
322	6mer	0.048125	CCCGCA	672	8mer	0.03898	GAGG
323	8mer	0.048104	GAACGGCC	673	8mer	0.03897	GGTG
324	8mer	0.048021	GTGGGAGG	674	8mer	0.03894	CGGA
325	8mer	0.048009	AGGTCCCT	675	8mer	0.03894	GCGG
326	8mer	0.047939	CGGCCATC	676	8mer	0.03893	AAGC
327	8mer	0.047913	CGAGACTG	677	6mer	0.0389	CGC
328	8mer	0.047904	CCCGAAGG	678	8mer	0.03885	TGAC
329	8mer	0.047877	GTTCTGCA	679	8mer	0.03879	CCAC
330	8mer	0.047858	CCTGTCGG	680	6mer	0.03876	GCG
331	8mer	0.047854	CGGCGGGG	681	8mer	0.03875	TGCG ⁻
332	6mer	0.047844	TGAGCC	682	8mer	0.03874	TCAT
333	8mer	0.047816	ATCGTAGA	683	8mer	0.03869	AGCG,
334	8mer	0.047784	CTCGTCAA	684	8mer	0.03869	TGTG
335	Triplet	0.047765	Triplet	685	8mer	0.03868	CCGT
336	8mer	0.047735	AGTCGGAG	686	8mer	0.03866	ACAT
337	8mer	0.047729	CCTCTCAT	687	8mer	0.03865	CCTC
338	8mer	0.047708	TGCCCCGA	688	8mer	0.03865	CTGC
339	8mer	0.047676	ACTTCGAG	689	8mer	0.03862	CTATO
340	8mer	0.04766	TGCGGGGG	690	8mer	0.03862	TGCA
341	8mer	0.047656	GCCCGAAC	691	8mer	0.03861	GATTA
342	8mer	0.047521	TGGGCGCC	692	8mer	0.0386	TCGC
343	8mer	0.047505	ACATGGCA	693	8mer	0.03858	AGGA
344	Triplet	0.047503	Triplet	694	8mer	0.03857	CCGC
345	8mer	0.047497	TGCACGCA	695	8mer	0.03857	ATGA
346	8mer	0.047407	CGCATTCC	696	8mer	0.03857	ACTC
347	8mer	0.047393	CACCGGAC	697	8mer	0.03856	GCGG
348	6mer	0.047356	GAGGGC	698	6mer	0.03855	AGG
349	8mer	0.047330	CGCTTGAA	699	8mer	0.03854	ATAA
	OHIGH	0.071213	SOCITORA		OHIGH	0.00004	1,11,777
350	8mer	0.047215	GAGATCCC	700	8mer	0.03854	GAAT

TableS4 The top 1000 features in the optimal feature set of the lncLocPredtp568 according to F-score order

Order	Feature	F-score	kmer
1	5mer	0.118544	GGGCG
2	8mer	0.10931	TCCCAAAG
3	8mer	0.107445	GCGGGGCG
4	8mer	0.106471	AACGGCCC
5	8mer	0.105616	CGGTGACG
6	8mer	0.098194	CGGGTCAC
7	8mer	0.095685	TCACGGGA
8	8mer	0.09567	TGCGGTTC
9	8mer	0.09254	GGGGGACC
10	8mer	0.091784	CCACGACC
11	8mer	0.091036	CGCCCCGG
12	5mer	0.090816	GCCGG
13	8mer	0.09051	TCAACGTC
14	8mer	0.088855	CGAAGTCG
15	8mer	0.088667	CGGGGGAC
16	6mer	0.088041	GGGGCG
17	8mer	0.08771	ATGGGGCG
18	8mer	0.087693	TCGGCCCC
19	8mer	0.087595	AGCGGAGC
20	8mer	0.087322	AATCGACG
21	8mer	0.085901	GCTCACGG
22	6mer	0.084846	GCGGGG
23	8mer	0.084716	GTAGGGCG
24	8mer	0.084641	CGCAGTTC
25	8mer	0.083424	CCGCAGTT
26	8mer	0.082921	GCGGAGCC
27	8mer	0.081369	CATCGGCT
28	8mer	0.079854	AGTAGGAC
29	8mer	0.079681	CCCAAAGT
30	8mer	0.079471	AAGGGCTG
31	5mer	0.078959	CGCCG
32	8mer	0.078261	GGGATGCG
33	8mer	0.077741	GATCCCGA
34	6mer	0.077289	GGGCGC
35	8mer	0.077287	GCGTGAGC
36	8mer	0.077177	CGGGCGGG

Order	Feature	F-score	kmer
351	8mer	0.0481	GAACGGCC
352	8mer	0.04802	GTGGGAGG
353	5mer	0.04802	CCGAG
354	8mer	0.04801	AGGTCCCT
355	8mer	0.04794	CGGCCATC
356	8mer	0.04791	CGAGACTG
357	8mer	0.0479	CCCGAAGG
358	8mer	0.04788	GTTCTGCA
359	8mer	0.04786	CCTGTCGG
360	8mer	0.04785	CGGCGGGG
361	6mer	0.04784	TGAGCC
362	8mer	0.04782	ATCGTAGA
363	8mer	0.04778	CTCGTCAA
364	Triplet	0.04777	Triplet
365	8mer	0.04774	AGTCGGAG
366	8mer	0.04773	CCTCTCAT
367	8mer	0.04771	TGCCCCGA
368	8mer	0.04768	ACTTCGAG
369	8mer	0.04766	TGCGGGGG
370	8mer	0.04766	GCCCGAAC
371	8mer	0.04752	TGGGCGCC
372	8mer	0.04751	ACATGGCA
373	Triplet	0.0475	Triplet
374	8mer	0.0475	TGCACGCA
375	8mer	0.04741	CGCATTCC
376	8mer	0.04739	CACCGGAC
377	6mer	0.04736	GAGGGC
378	8mer	0.04728	CGCTTGAA
379	8mer	0.04722	GAGATCCC
380	8mer	0.04717	GGTCGAGA
381	8mer	0.04711	AAGTCGGG
382	8mer	0.04707	CGACCCGG
383	8mer	0.04705	GCGCCGTG
384	8mer	0.04699	TGCGTCAA
385	8mer	0.04697	TGGACAGC
386	8mer	0.04696	TCGTCAAC

Order	Feature	F-score	kmer
701	8mer	0.039192	GGTCGAGG
702	8mer	0.039183	TTTTTTAG
703	8mer	0.039178	CCGCCAAT
704	8mer	0.039146	TGGGGCGG
705	8mer	0.039133	TACCGGCA
706	8mer	0.039092	CATGCTAC
707	8mer	0.03906	CCCGCAAA
708	5mer	0.039041	AGCCG
709	8mer	0.039038	AACTGTAC
710	8mer	0.039002	GCAGAAAA
711	8mer	0.039	CACGCAGG
712	6mer	0.039	GCCCGC
713	8mer	0.038999	GCATCGTC
714	8mer	0.038984	GAGGGCGA
715	8mer	0.038973	GGTGAAAC
716	8mer	0.038944	CGGATGTC
717	8mer	0.038939	GCGGAGCG
718	8mer	0.03893	AAGCCGCA
719	6mer	0.038902	CGCGGC
720	8mer	0.03885	TGACGCGA
721	8mer	0.038789	CCACCGAT
722	6mer	0.038761	GCGCCC
723	8mer	0.038745	TGCGTGAG
724	8mer	0.038735	TCATTGCC
725	8mer	0.03869	AGCGAGAC
726	8mer	0.038687	TGTGTTAC
727	8mer	0.038675	CCGTAGCT
728	8mer	0.038664	ACATCCGT
729	8mer	0.03865	CCTCGTCG
730	8mer	0.038649	CTGCGCCG
731	8mer	0.038618	CTATGGGA
732	8mer	0.038616	TGCAACCT
733	8mer	0.038607	GATTAGAG
734	8mer	0.0386	TCGCCGCC
735	8mer	0.038583	AGGATGTT
736	8mer	0.038573	CCGCGGAT

37	8mer	0.077057	GCGGGGGA	387	8mer	0.0469	CACGGGAG	737	8mer	0.038571 ATGAGCTA
38	6mer	0.076967	GGGCCT	388	8mer	0.0468	ACGACCCG	738	8mer	0.038566 ACTCGTCA
39		0.076646	AGACGGCG	389		0.04677	TATCCAGT	739		0.038562 GCGGAGGT
	8mer				8mer				8mer	
40	8mer	0.075641	CTTGTATC	390	8mer	0.04677	GGTCATCG	740	6mer	0.038552 AGGGCG
41	8mer	0.07546	CTTAAACC	391	5mer	0.04676	CCGCA	741	8mer	0.038544 ATAACGAG
42	8mer	0.075416	GAGCCCGA	392	8mer	0.04676	ACGCAGGG	742	8mer	0.038543 GAATATCT
43	8mer	0.07508	CGTAGCTT	393	8mer	0.04671	CGCGCCGT	743	8mer	0.038531 GACACGGG
44	5mer	0.074635	CCCGC	394	8mer	0.04669	CTCCCAAA	744	6mer	0.038521 CCCCGC
45								745		
	8mer	0.074414	CCCCGAA	395	8mer	0.04666	CGGGGCGG		8mer	0.038508 AACATGGT
46	5mer	0.073675	CGCCC	396	8mer	0.04664	TTATGTCG	746	8mer	0.038481 ATAGTGCG
47	6mer	0.073596	ATCGCG	397	8mer	0.04664	GCGCAGCA	747	6mer	0.038469 GCGGAG
48	8mer	0.073205	GGCGAGGT	398	6mer	0.04658	CGGGCG	748	8mer	0.038451 GACGGGCG
49	8mer	0.073205	CCGCACCG	399	8mer	0.04654	GACCGCGA	749	8mer	0.038446 TGCAAGTT
50	8mer	0.072737	CGCAGCGT	400	8mer	0.04648	AGAAGCGG	750	8mer	0.038361 CGCGGATT
51	8mer	0.072567	CATCGCGG	401	6mer	0.04647	ACCCGC	751	8mer	0.03836 GCCCGGAG
52	8mer	0.072132	TGGGCCCG	402	5mer	0.04647	AGGGC	752	8mer	0.038343 ACGTCCGG
53	6mer	0.072091	CGGGGC	403	6mer	0.04646	CCGAGG	753	8mer	0.038332 TAGATCGT
54	8mer	0.072036	CCCGTTTC	404	8mer	0.04643	ATCGCCGA	754	5mer	0.038321 TGGTA
55	8mer	0.072034	GTGCGTGA	405	8mer	0.04641	TGTCCGGT	755	8mer	0.038297 GCGGAGTT
		0.072034	GGATGCGG	406		0.04636				0.038275 ACGCCACA
56	8mer				8mer		AGCAGTCC	756	8mer	
57	5mer	0.071377	CGAGA	407	8mer	0.04628	AGCTCGGC	757	8mer	0.03827 ATGGGACC
58	6mer	0.070845	CGTCCA	408	6mer	0.04625	GTCGTG	758	8mer	0.038252 CGTCATGA
59	8mer	0.070518	AAGGGGCG	409	8mer	0.04623	TCTGGTAT	759	8mer	0.038251 CATCCGTC
60	6mer	0.070402	AGCCGG	410	8mer	0.04622	CGGGCACT	760	8mer	0.038249 GAGGGCGC
61	8mer	0.070402	CCGAAGGC	411		0.0462	GTTAATTT	761		
					8mer				8mer	
62	8mer	0.069523	CCTGTGTT	412	8mer	0.04614	CAGGACGA	762	8mer	0.038228 TGCGCTCC
63	8mer	0.069495	GTGGAAGA	413	8mer	0.04611	GGTCGGGC	763	8mer	0.038226 GGGCTCAC
64	8mer	0.068895	ATCCCGAA	414	6mer	0.04608	CGCCGG	764	5mer	0.038202 GGCGG
65	8mer	0.068761	CTTGAACC	415	8mer	0.04606	CGGGGCCA	765	8mer	0.038193 GCACGTGG
66	8mer	0.068296	ACGAGCCC	416	8mer	0.04603	CGCCCGAG	766	8mer	0.038168 GGTGTCGT
67	8mer	0.068213	AGACCCTC	417	8mer	0.04599	TCGCCCTC	767	8mer	0.038135 CGGCTGGG
68	8mer	0.068069	ACGTGCGG	418	8mer	0.04596	GGCGGGGC	768	8mer	0.038124 CTGACGCG
69	8mer	0.068033	GTGCGACT	419	6mer	0.04585	CGCCCG	769	8mer	0.03805 TTAAATGA
70	8mer	0.067987	GACCATCG	420	8mer	0.04584	CCCTGGGC	770	8mer	0.038048 TCACCGCG
71	8mer	0.067781	ACGAATCA	421	8mer	0.04582	CGCCGGAA	771	8mer	0.038015 CTCACATC
72	8mer	0.067781	TCGTCGAC	422	8mer	0.04581	ATCTTAAT	772	8mer	0.037947 TGCGCCGA
73	8mer	0.067781	TAACCGCC	423	6mer	0.04578	CCGGCT	773	8mer	0.037943 GCAAACGT
74	8mer	0.067781	GTCGACCG	424	8mer	0.04574	CCGCGAAC	774	8mer	0.037942 CCGGGAAC
75	8mer	0.067781	CGAGTCGG	425	8mer	0.0456	TAAGGGCT	775	8mer	0.037932 TGGCCAGG
76	8mer	0.067781	TATGCGGG	426	8mer	0.04557	CGACCTCC	776	8mer	0.037889 CGAATGAT
77	8mer	0.067781	ATGCGGGG	427	8mer	0.04555	ACGCTCGT	777	8mer	0.037866 ACGCGACA
78	8mer	0.067692	AGCCACCG	428	8mer	0.04554	CGCGGGCA	778	8mer	0.037866 GACGCGAC
79	8mer	0.067483	GCGTGCTC	429	8mer	0.04554	GCGCCAAT	779	8mer	0.037866 TGTCGACC
80	8mer	0.067415	TCCGGGCG	430	Triplet	0.04548	Triplet	780	8mer	0.037866 TAAACCGC
81	6mer	0.067398	CGGGGG	431	8mer	0.04545	GACCCGGC	781	8mer	0.037866 GCTCGCGT
82	5mer	0.067361	GGAGG	432	8mer	0.04545	GGCTGATG	782	8mer	0.037861 CGGCCTCC
83	6mer	0.067315	CCGCCG	433	8mer	0.0454	GCACAATT	783	8mer	0.037833 GACGCCTC
84	8mer	0.067239	GGAATCCG	434	5mer	0.04534	CGGCC	784	8mer	0.037833 TTCAATGA
85	8mer	0.067199	TGACGAGC	435	8mer	0.04529	GGTTGCTA	785	8mer	0.037822 CTCGTCGA
86	8mer	0.067076	CGCACAGT	436	8mer	0.04526	TGTTTACG	786	6mer	0.037789 TCGCGC
87	8mer	0.066653	GCGCGTCC	437	8mer	0.04524	AGGGCGCA	787	8mer	0.037764 GGCCGTCG
88				438						
	8mer	0.066595	TCCGCCGG		8mer	0.04523	TAGGCATT	788	8mer	
89	8mer	0.066489	GGCCCGTG	439	8mer	0.04521	CCGAAGTC	789	8mer	0.037755 TGTCCCGC
90	8mer	0.066467	GCGGATCT	440	8mer	0.04521	CGTACATT	790	8mer	0.03775 CCTTCACT
91	8mer	0.06636	GGGCCCCT	441	8mer	0.0452	CGCGTACA	791	8mer	0.037746 ATATGTGA
92	8mer	0.06628	CCTGGGCC	442	8mer	0.04518	CCATCGGT	792	8mer	0.037736 CCGAACTC
93	8mer		GACGAATC	443	8mer		CGAGACCA	793	5mer	0.037698 TGCCC
94	8mer		AACGTCGG	444	8mer	0.04515	CCGGACTT	794	8mer	0.037682 TGGTTGCT
95	5mer	0.065994		445	8mer	0.04512	ATGTCGGC	795	8mer	0.037677 CTGCTCAC
96	5mer	0.065986	CGGGG	446	8mer	0.04507	CTAGCGGA	796	8mer	0.037644 CAGGCGGG
97	8mer	0.06574	TTATGCGG	447	8mer	0.04506	TCGACGAA	797	8mer	0.03761 GCCCGTCG
98	8mer	0.06574		448	8mer	0.04506	GGGCGCGG	798	8mer	0.037582 GCGGGCAT
99	8mer		GCGGTAAC	449	8mer	0.04300	CCCCTTAT	799	8mer	0.037572 CACGAGAC
100	8mer		CCTGGGCG	450	6mer	0.04497	TCGGCC	800	8mer	0.037572 GCAATGCC
101	8mer	0.065523		451	8mer	0.04495	GGCAGAAA	801	8mer	0.037561 CTGCTGCG
102	8mer		TGGTCTCG	452	6mer	0.04493	CCCGAA	802	8mer	0.037556 CCGAGGGC
103	8mer	0.065447	CCACTGCA	453	8mer	0.04493	GTTGCTAT	803	8mer	0.037538 AGGTCGTG
104	6mer	0.065422		454	8mer	0.04492	GGTTGGTC	804	8mer	0.037517 GGCTGGTC
105	8mer		CGACAGGA	455	8mer	0.04491	ACCGTGCC	805	8mer	0.037512 GAAAGCGA
106			CATGACAC	456		0.04489	CCCGCC	806		0.037512 GAAAGCGA
	8mer				6mer				8mer	
107	8mer		ATCCGCCG	457	8mer	0.04484	ACGCCTCG	807	5mer	0.037508 GGCGA
108	5mer	0.065211	GCGGG	458	8mer	0.04481	CGTGTTAC	808	8mer	0.037503 GGCTGCTA
109	8mer	0.064857	TGTCGGTA	459	8mer	0.0448	ATGCGCGA	809	8mer	0.037495 CTTCATCG
110	8mer	0.064394		460	8mer	0.04471	CTTTCGTC	810	8mer	0.03748 CGTGGGTG
111				461		0.04471				
	8mer	0.06426			SC-PseDNC		SC-PseDNC	811	8mer	
112	8mer		CCGGTTGA	462	8mer	0.04457	GGGGCGCG	812	8mer	0.037429 GCTGCCGG
113	5mer	0.063847	CCCCG	463	6mer	0.04457	ACGCGA	813	8mer	0.037404 AAGCCGGC
114	8mer	0.063797	TGTGCGCC	464	8mer	0.0445	ACCGCGAA	814	8mer	0.037394 GGGGGCGG
115	8mer		TGCGCCGT	465	8mer	0.04444	GGGGATAT	815	5mer	0.037369 CAGGC
116	8mer		GCACCGAA	466	8mer	0.0444	TTTGTCTC	816	8mer	0.037359 CCCGTCTG
117	8mer		AGGAGGGC	467	8mer	0.0444	AGATTGCG	817	8mer	0.037355 CACGGGAT
	8mer		AACCGCGG	468	8mer	0.04432	CGAGAATC	818	8mer	0.037317 ACCCGAAT
118		0.063161	CGGTACTT	469	5mer	0.0443	GGCGT	819	8mer	0.037314 TCGCCCCG
118	8mer			470	8mer	0.04426	CAGTTCGG	820	8mer	0.037312 GCCTATGG
119	8mer		()()()()()()()()()()()()()(710	8mer	0.04423	ATCGACGA	821	8mer	0.037312 GCCTATGG
119 120	8mer 8mer	0.063124		/171		. U.U44ZJ	ALCOMOGA		OHE	I AAIAUUUT
119 120 121	8mer 8mer 8mer	0.063124 0.062931	ATACCGCC	471			CACCCCAA			
119 120 121 122	8mer 8mer 8mer 8mer	0.063124 0.062931 0.062913	ATACCGCC TCCAGGCG	472	8mer	0.04422	CACGGCAA	822	8mer	0.037266 CCCCGCCC
119 120 121	8mer 8mer 8mer	0.063124 0.062931 0.062913	ATACCGCC				CACGGCAA TCGCG			0.037266 CCCCGCCC 0.037257 CGGCCTAT
119 120 121 122	8mer 8mer 8mer 8mer	0.063124 0.062931 0.062913 0.062893	ATACCGCC TCCAGGCG	472	8mer	0.04422		822	8mer	0.037266 CCCCGCCC
119 120 121 122 123 124	8mer 8mer 8mer 8mer 8mer 8mer	0.063124 0.062931 0.062913 0.062893 0.062656	ATACCGCC TCCAGGCG TCCCGCAC ACCGGACT	472 473 474	8mer 5mer 8mer	0.04422 0.0442 0.04419	TCGCG ACCCCCGA	822 823 824	8mer 8mer 8mer	0.037266 CCCCGCCC 0.037257 CGGCCTAT 0.037252 GCTGCGCA
119 120 121 122 123 124 125	8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.063124 0.062931 0.062913 0.062893 0.062656 0.06263	ATACCGCC TCCAGGCG TCCCGCAC ACCGGACT AGGTCGAG	472 473 474 475	8mer 5mer 8mer 8mer	0.04422 0.0442 0.04419 0.04418	TCGCG ACCCCCGA CGAGAGCT	822 823 824 825	8mer 8mer 8mer 8mer	0.037266 CCCCGCCC 0.037257 CGGCCTAT 0.037252 GCTGCGCA 0.037222 CCCGGCAC
119 120 121 122 123 124 125 126	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.063124 0.062931 0.062913 0.062893 0.062656 0.06263 0.062472	ATACCGCC TCCAGGCG TCCCGCAC ACCGGACT AGGTCGAG GAAACCCG	472 473 474 475 476	8mer 5mer 8mer 8mer 6mer	0.04422 0.0442 0.04419 0.04418 0.04416	TCGCG ACCCCCGA CGAGAGCT CTGGGC	822 823 824 825 826	8mer 8mer 8mer 8mer 8mer	0.037266 CCCCGCCC 0.037257 CGGCCTAT 0.037252 GCTGCGCA 0.037222 CCCGGCAC 0.037219 ACCCGGGG
119 120 121 122 123 124 125	8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.063124 0.062931 0.062913 0.062893 0.062656 0.06263 0.062472 0.062448	ATACCGCC TCCAGGCG TCCCGCAC ACCGGACT AGGTCGAG	472 473 474 475	8mer 5mer 8mer 8mer	0.04422 0.0442 0.04419 0.04418 0.04416	TCGCG ACCCCCGA CGAGAGCT	822 823 824 825	8mer 8mer 8mer 8mer	0.037266 CCCCGCCC 0.037257 CGGCCTAT 0.037252 GCTGCGCA 0.037222 CCCGGCAC

120	0mor	0.062312	CCAACATC	470	Omor	0.0441	CCCCTCCT	920	Omor	0.037161 GAATCGCT
129	8mer			479	8mer	0.0441	CCGCTGGT	829	8mer	
130	8mer	0.062211	ATTGCCGG	480	8mer	0.04408	ACTGCTCA	830	8mer	0.037139 GCGCCCGG
131	5mer	0.062101	CGGGC	481	8mer	0.04407	GAGCCCCG	831	8mer	0.037131 ACCCGGCC
132	8mer	0.061952	TCACGGTG	482	8mer	0.04403	CCAAAGTG	832	8mer	0.037086 ATTAGGGA
133	8mer	0.06195	GATGCGGA	483	6mer	0.04402	GGGCGA	833	8mer	0.037082 CCGCTTAG
134										
	5mer	0.061919	GCGCC	484	6mer	0.04401	GCGGTA	834	6mer	0.037077 GGCCCG
135	8mer	0.061771	GGCCCCTG	485	8mer	0.04392	CCGCAGCG	835	8mer	0.037036 GGCATTCG
136	8mer	0.061704	CGGGGCGA	486	8mer	0.0439	CACCGCGC	836	8mer	0.037023 GGCATTCC
137	8mer	0.061609	TCGTCCAA	487	8mer	0.04389	GCCGCCGC	837	8mer	0.036989 TAAAATGG
138	8mer	0.061468		488	8mer	0.04387	GCCCCTGA	838	8mer	0.036988 TCCTTTCC
139	8mer	0.061418		489	8mer	0.04382	CAAAGTAC	839	6mer	0.036974 GACCTC
140	8mer	0.06132	GGGCGAGG	490	8mer	0.04381	GGAGGGCG	840	8mer	0.036971 CCTCCCAA
141	6mer	0.061176	CCCCCG	491	8mer	0.04381	GGGGGTCG	841	8mer	0.036962 CGGAATAT
142	8mer	0.061146	TCGGTACT	492	8mer	0.04379	GCCGGACT	842	8mer	0.036961 TTGGGCCC
143	8mer	0.061133	CGGTGTCG	493	8mer	0.04379	GCGCCGGA	843	8mer	0.036937 CGCCAATC
144	8mer	0.061067		494	8mer	0.04377	GCAACGTC	844	8mer	0.036924 TGACCTTA
145	5mer	0.061032	GCCCG	495	8mer	0.04377	ACCTAGAC	845	8mer	0.036905 GCGAAATT
146	8mer	0.060888	TCAAGCGA	496	6mer	0.04376	GCGCCG	846	8mer	0.036883 CTTCAAGC
147	6mer	0.060796	GTCGGA	497	8mer	0.04375	TTTTTGTA	847	6mer	0.036873 ACACGG
148	8mer	0.060681	GGTCGTGG	498	8mer	0.04373	AGATACTA	848	8mer	0.036856 AGGCTGGT
149	8mer	0.06066	GGAGGGGT	499	8mer	0.04372	AACTCGTC	849	8mer	0.036827 GCGCGCGG
150	8mer	0.060619		500	8mer	0.04371	GGAACCTA	850	8mer	0.036785 GTGCCGAA
151	8mer	0.060596	ACTCCCCG	501	8mer	0.04367	AAGGTGCC	851	8mer	0.036765 TTTCCCGA
152	8mer	0.060568	CAAGCGAT	502	8mer	0.04364	TATTAGGG	852	8mer	0.036755 GAATCCGG
153	8mer	0.060416		503	8mer	0.04363	CCCGAACT	853	8mer	0.036745 CCGACTTT
154	8mer	0.060304		504	8mer	0.04362	TTGTACGG	854	6mer	0.036732 GAGCCC
155	8mer	0.060137	GCATTCGG	505	6mer	0.04358	GATGCG	855	8mer	0.036719 GTAGTGGG
156	6mer	0.060056	GGGCGG	506	8mer	0.04358	CCGTGTCC	856	6mer	0.036697 GGCCCC
157	8mer	0.060047	GGGCGCCC	507	8mer	0.04352	CGCCTATA	857	5mer	0.036696 GAGGG
158	8mer	0.059996		508	8mer	0.04351	TATGTCGG	858	8mer	0.036678 CAAAAAA
159	8mer	0.059859		509	8mer	0.04351	TACTGCCA	859	8mer	0.036676 GCGACATC
160	8mer	0.059776		510	8mer	0.04347	TATAGCAC	860	8mer	0.036655 ACGGGTTC
161	8mer	0.059758	GCTTCGCC	511	8mer	0.04347	GGTTGCAG	861	8mer	0.036648 TTCAAGGT
162	8mer	0.059737	GTGTTACT	512	8mer	0.04346	TTTGGCCA	862	8mer	0.036629 TGTACGTT
163	8mer	0.059509		513	8mer	0.04342	CCGCGATT	863	8mer	0.036619 GTCGACCC
164	5mer	0.059434	GGCCG	514	8mer	0.04336	GGTTGTTC	864	8mer	0.036608 GCGCCACT
165	8mer	0.059376		515	8mer	0.04334	GAGCGGGG	865	8mer	0.036604 CTGGTATA
166	6mer	0.059325	GGGACC	516	8mer	0.04333	GAGGCCGT	866	8mer	0.036599 CGTCAAGG
167	8mer	0.059293	TGCGGATC	517	8mer	0.04332	GTGTCGTA	867	8mer	0.036577 GACTGCGA
168	8mer	0.059292		518	8mer	0.0433	CTGCGAGT	868	8mer	0.036576 CAGTAGGA
169	5mer	0.059282	GTCGG	519	8mer	0.0433	CGGCCCCT	869	5mer	0.036576 CGGGA
170	8mer	0.059268		520	8mer	0.04328	GCAGTTCG	870	8mer	0.036575 CGGCCCAC
171	8mer	0.059228	GGGCGCGT	521	8mer	0.04326	TCCTGTGT	871	8mer	0.036574 GAAGTCGG
172	8mer	0.0589	CGTAGGGC	522	8mer	0.04325	GGGCGGTG	872	8mer	0.036528 ATGCACGC
173	8mer	0.058785	CATCGGTA	523	8mer	0.04325	CCGTTTCC	873	8mer	0.036518 TAACGAGG
174	8mer	0.058759		524	6mer	0.04324	GCCGGG	874	8mer	0.036479 TTCGGGGG
175	8mer	0.058752	AAACGTCG	525	8mer	0.0432	TCGTCGAA	875	8mer	0.036471 CGGGTGGC
176	8mer	0.058738	AGATCCCG	526	8mer	0.04319	TTGCGCCA	876	8mer	0.036463 CAATATAC
177	8mer	0.058588	TCCGTAGC	527	8mer	0.04314	AGCATTGC	877	8mer	0.036425 TCGGCTGT
178	8mer	0.05853	GGCGCAGC	528	8mer	0.04313	ACGCGTAC	878	8mer	0.03639 CTATGTTG
179	8mer		ACGCGGAG	529	8mer	0.04313	CTTCCGCG	879	6mer	0.036385 TCGCGT
180	8mer	0.058097	TAGGACAA	530	5mer	0.04312	CCCGG	880	8mer	0.036376 ACGCTCAT
181	8mer	0.057951	GCCTTGGG	531	8mer	0.0431	GGGGCGGT	881	8mer	0.036373 GCGTTCTC
182	5mer	0.057679	GGCGC	532	8mer	0.04309	ACCCGCAC	882	6mer	0.036294 TGTCGG
183	8mer	0.057646	AATCCCCG	533	8mer	0.04305	GAGCCCGG	883	8mer	0.03628 GACGGCCT
184	8mer	0.057504	CGCCGTTA	534	8mer	0.04005	ATCCCGAC	884	8mer	0.036274 GAGGTCAT
			GTAAACCG	535	8mer	0.04304	GAACGAAT			0.036257 ACGGCCTG
185	8mer							885	8mer	
186	8mer		GGCCTATG	536	8mer	0.04297	CAGTACGT	886	8mer	0.036192 GTTATCTG
187	8mer		CGGACGTG	537	6mer	0.04296	GCCGGC	887	8mer	0.03619 CTACAGTA
188	8mer	0.057406	GCCGGAAG	538	8mer	0.04296	CTTAAGTA	888	8mer	0.036189 TATAAGGT
189	8mer	0.057352	TTCCCTAA	539	8mer	0.04296	GAGATACT	889	8mer	0.036163 CGACTTTG
190	8mer		CGCGGGAA	540	8mer	0.04295	CGTCGTCT	890	8mer	0.036153 TGAGCCGA
										0.036139 CGTAGATA
191	8mer		GGAATATC	541	8mer	0.0429	GACGCGTA	891	8mer	
192	8mer		GGCGCGTC	542	8mer	0.04287	GCACTCCA	892	8mer	0.036137 CTAAACCG
193	8mer		GGTAACCG	543	8mer	0.04286	CGCGCGGC	893	6mer	0.036132 TCGACG
194	8mer	0.057244	AATCCGCC	544	8mer	0.04285	TGCTTTTT	894	8mer	0.036098 CTTGCGTC
195	8mer	0.057216	ACATCGCG	545	6mer	0.04284	CCGGGC	895	8mer	0.036073 AATTATCC
196	8mer		GAGGGCAG	546	8mer	0.04278	CCGGACTA	896	8mer	0.036068 GAGCGACG
197	8mer		TGATCCGG	547	8mer	0.04275	ATTGCGCC	897	8mer	0.036049 GTCCAGAC
198	8mer		CTGATCCG	548	8mer	0.04274	CGAGGTCT	898	8mer	0.036048 CGGGGGCC
199	8mer		GCCGCAGT	549	8mer	0.04273	CAGGCCAC	899	8mer	0.036041 ACGCCCGA
200	8mer	0.057074	GACGAGCC	550	6mer	0.04273	CGTCGT	900	5mer	0.036039 GGCCC
201	8mer	0.05707		551	8mer	0.04269	GATCCGGG	901	8mer	0.036032 GGCGCCCG
202	8mer	0.05707		552	8mer	0.04266	TCCTCCGT	902	8mer	0.036022 GTTTCGCC
203	5mer	0.057046		553	8mer	0.04263	CTAAACAT	903	8mer	0.036005 TCCTGGGC
204	8mer	0.056971	CGGGCATC	554	5mer	0.04262	ACGGG	904	8mer	0.036004 TTGTTAAT
205	5mer	0.056908	CCCGA	555	8mer	0.04261	CGGGCGAG	905	8mer	0.03599 CAGCCTCC
206	8mer		CGCCGTGT	556	6mer	0.04258	GTTTCG	906	8mer	0.035982 GGTGGCGC
207	6mer	0.056774		557	8mer	0.04258	CACAGATG	907	8mer	0.035958 CGTTCAGG
208	8mer		TGCGGTAA	558	8mer	0.04258	GTAAGGGC	908	6mer	0.035953 CCAACG
209	8mer		GGAGCCGG	559	8mer	0.04257	GGACGCAA	909	8mer	0.035936 CGAGTTCT
210			ATAGCTAA	560	8mer	0.04255	CCTGCGCC	910	8mer	0.03593 CGCGCGGG
	8mer			561	8mer	0.04255	GGCGGTGT	911	5mer	0.035879 GCGGA
211			(:(:(:(: A (:)	201	6mer		ACCGCG	912	8mer	0.035852 ACCCGCGC
211	8mer	0.056455		ECO	omer	0.04251	ALLULU	91/	amer	
212	8mer 8mer	0.056455 0.056438	GAGACGCC	562		0 0 40 40	TOO A OTTO			
212 213	8mer 8mer 8mer	0.056455 0.056438 0.056382	GAGACGCC CGTGCTCG	563	8mer	0.04248	TGCACTTG	913	6mer	0.035848 CAAGCG
212 213 214	8mer 8mer	0.056455 0.056438 0.056382	GAGACGCC			0.04248 0.04246	TGCACTTG AGGAGGCC			
212 213 214	8mer 8mer 8mer	0.056455 0.056438 0.056382 0.056377	GAGACGCC CGTGCTCG CGGGCCCC	563	8mer 8mer		AGGAGGCC	913	6mer 8mer	0.035848 CAAGCG 0.035833 ACCTCGAC
212 213 214 215	8mer 8mer 8mer 8mer 8mer	0.056455 0.056438 0.056382 0.056377 0.056307	GAGACGCC CGTGCTCG CGGGCCCC CGGAGCCC	563 564 565	8mer 8mer Triplet	0.04246 0.04242	AGGAGGCC Triplet	913 914 915	6mer 8mer 8mer	0.035848 CAAGCG 0.035833 ACCTCGAC 0.035761 CGAACAGA
212 213 214 215 216	8mer 8mer 8mer 8mer 8mer 8mer	0.056455 0.056438 0.056382 0.056377 0.056307 0.056099	GAGACGCC CGTGCTCG CGGGCCCC CGGAGCCC AGCTACGC	563 564 565 566	8mer 8mer Triplet 8mer	0.04246 0.04242 0.04237	AGGAGGCC Triplet CCGAAGGG	913 914 915 916	6mer 8mer 8mer 8mer	0.035848 CAAGCG 0.035833 ACCTCGAC 0.035761 CGAACAGA 0.035756 CTGTCCCG
212 213 214 215 216 217	8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.056455 0.056438 0.056382 0.056377 0.056307 0.056099 0.056053	GAGACGCC CGTGCTCG CGGGCCCC CGGAGCCC AGCTACGC ATCGCGGG	563 564 565 566 567	8mer 8mer Triplet 8mer 8mer	0.04246 0.04242 0.04237 0.04234	AGGAGGCC Triplet CCGAAGGG TGAGCCAC	913 914 915 916 917	6mer 8mer 8mer 8mer 8mer	0.035848 CAAGCG 0.035833 ACCTCGAC 0.035761 CGAACAGA 0.035756 CTGTCCCG 0.035747 CTCCTGTG
212 213 214 215 216 217 218	8mer 8mer 8mer 8mer 8mer 8mer 8mer 6mer	0.056455 0.056438 0.056382 0.056377 0.056307 0.056099 0.056053 0.056047	GAGACGCC CGTGCTCG CGGGCCCC CGGAGCCC AGCTACGC ATCGCGGG TCCCGA	563 564 565 566 567 568	8mer 8mer Triplet 8mer 8mer 8mer	0.04246 0.04242 0.04237 0.04234 0.04231	AGGAGGCC Triplet CCGAAGGG TGAGCCAC TCGGGGGT	913 914 915 916 917 918	6mer 8mer 8mer 8mer 8mer 8mer	0.035848 CAAGCG 0.035833 ACCTCGAC 0.035761 CGAACAGA 0.035756 CTGTCCCG 0.035747 CTCCTGTG 0.035746 GGCTCACG
212 213 214 215 216 217	8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.056455 0.056438 0.056382 0.056377 0.056307 0.056099 0.056053 0.056047	GAGACGCC CGTGCTCG CGGGCCCC CGGAGCCC AGCTACGC ATCGCGGG	563 564 565 566 567	8mer 8mer Triplet 8mer 8mer	0.04246 0.04242 0.04237 0.04234	AGGAGGCC Triplet CCGAAGGG TGAGCCAC	913 914 915 916 917	6mer 8mer 8mer 8mer 8mer	0.035848 CAAGCG 0.035833 ACCTCGAC 0.035761 CGAACAGA 0.035756 CTGTCCCG 0.035747 CTCCTGTG
212 213 214 215 216 217 218	8mer 8mer 8mer 8mer 8mer 8mer 8mer 6mer	0.056455 0.056438 0.056382 0.056377 0.056307 0.056099 0.056053 0.056047 0.055956	GAGACGCC CGTGCTCG CGGGCCCC CGGAGCCC AGCTACGC ATCGCGGG TCCCGA	563 564 565 566 567 568	8mer 8mer Triplet 8mer 8mer 8mer	0.04246 0.04242 0.04237 0.04234 0.04231 0.04227	AGGAGGCC Triplet CCGAAGGG TGAGCCAC TCGGGGGT	913 914 915 916 917 918	6mer 8mer 8mer 8mer 8mer 8mer	0.035848 CAAGCG 0.035833 ACCTCGAC 0.035761 CGAACAGA 0.035756 CTGTCCCG 0.035747 CTCCTGTG 0.035746 GGCTCACG

221	6mer	0.055895	CGCCGC
222	5mer	0.055828	CGGAG
223	8mer	0.055575	GGAATCGT
224	8mer	0.055533	AAAAATTA
225	8mer	0.055492	CGGATCTA
226	8mer	0.05548	AGACCCGC
227	8mer	0.055231	ACCTGTAC
228	8mer	0.0552	GCCCTGGT
229	8mer	0.055116	GTCCAATG
230	8mer	0.055039	CGGCGATG
231	8mer	0.054965	TGAGTGTC
232	8mer	0.054878	TTCAAGCG
233	8mer	0.0548	GAGAATCG
234	5mer	0.054796	CCTGG
235	8mer	0.054507	CAAAACTC
236	8mer	0.054459	AATATACC
237	8mer	0.05445	TATACCAG
238	8mer	0.054389	ACCCGCAG
239	5mer	0.054319	CCGGC
240		0.054319	CGGTAACC
241	8mer	0.054301	TAGAGGCG
	8mer		
242	8mer	0.054134	CGGACTTT
243	5mer	0.05409	CCGAA
244	8mer	0.053955	GCCCCGTG
245	8mer	0.053902	AAAATTAG
246	8mer	0.053867	CGAGCCCG
247	8mer	0.053538	GACCCTCC
248	8mer	0.053492	ATGCAACG
249	8mer	0.053471	TCCAATGC
250	6mer	0.053345	GCGCGG
251	8mer	0.05329	CCTCAGCC
252	8mer	0.053201	CCGCATTC
253	5mer	0.053022	GGGGC
254	8mer	0.052943	ACGGAGGG
255	8mer	0.052902	GCTGCTCG
256	8mer	0.052845	GCGATGGG
257	8mer	0.052795	CTCGCGTC
258	8mer	0.052789	AATCCCAA
259	8mer	0.052597	GAATATTG
260	6mer	0.052545	CCTGGG
261	8mer	0.052512	GACCTAGC
262	6mer	0.052492	CCGAAG
263	8mer	0.052453	TGGCCGTC
264	8mer	0.052419	CCAGGTCC
265	8mer	0.052418	GGGCTGAC
266	6mer	0.052402	GCCCCG
267	8mer	0.052379	TTTGCGGA
268	8mer	0.052373	CCGCCCCC
269	8mer	0.052314	CTGACGAG
270	5mer	0.052314	CGCGG
271	8mer	0.052189	GGGGCCTA
272			
	8mer	0.052127	GCAGAGGG
273	8mer	0.052092	CGTCGGCG
274	8mer	0.051893	CCCGAAGT
275	8mer	0.051883	GCGGTGTC
276	6mer	0.05178	CGGCCC
277	8mer	0.051652	CGTGAGCC
278	8mer	0.05164	GCCGCATT
279	8mer	0.051615	GGGTCGAG
280	8mer	0.051532	TCGAGTCG
281	8mer	0.051301	TCCCAGCT
282	8mer	0.051286	GAGCGCCA
283	8mer	0.051239	ATTGCCTG
284	8mer	0.051176	CAAGATCG
285	8mer	0.051123	GCGTTCAG
286	8mer	0.051068	GCTCCTCG
287	5mer	0.050999	GCACC
288	8mer	0.050908	ACGGGCAG
289	8mer	0.050867	AGATCGCG
290	6mer	0.050856	ACGGGA
291	8mer	0.050733	GATATTGA
		0.050698	AGCCCGAA
292	8mer		
	8mer 8mer	0.050688	TTTTTAGT
292			TTTTTAGT CTGGGCCC
292 293	8mer	0.050688	TTTTTAGT
292 293 294	8mer 8mer	0.050688 0.050647	TTTTTAGT CTGGGCCC
292 293 294 295 296 297	8mer 8mer 8mer	0.050688 0.050647 0.050597 0.050593 0.050576	TTTTTAGT CTGGGCCC CCGCCAGC CTCCGTAG CGGAGGTC
292 293 294 295 296	8mer 8mer 8mer 8mer	0.050688 0.050647 0.050597 0.050593	TTTTTAGT CTGGGCCC CCGCCAGC CTCCGTAG
292 293 294 295 296 297	8mer 8mer 8mer 8mer 8mer	0.050688 0.050647 0.050597 0.050593 0.050576	TTTTAGT CTGGGCCC CCGCCAGC CTCCGTAG CGGAGGTC CGTCCAAT TGAATGCA
292 293 294 295 296 297 298	8mer 8mer 8mer 8mer 8mer 8mer	0.050688 0.050647 0.050597 0.050593 0.050576 0.050492	TTTTAGT CTGGGCCC CCGCCAGC CTCCGTAG CGGAGGTC CGTCCAAT TGAATGCA
292 293 294 295 296 297 298 299 300	8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.050688 0.050647 0.050597 0.050593 0.050576 0.050492 0.050489 0.050433	TTTTTAGT CTGGGCCC CCGCCAGC CTCCGTAG CGGAGGTC CGTCCAAT TGAATGCA ACCTGG
292 293 294 295 296 297 298 299 300 301	8mer 8mer 8mer 8mer 8mer 8mer 8mer 6mer 8mer	0.050688 0.050647 0.050597 0.050593 0.050576 0.050492 0.050489 0.050433 0.050383	TTTTTAGT CTGGGCCC CCGCCAGC CTCCGTAG CGGAGGTC CGTCCAAT TGAATGCA ACCTGG GCCTGGCC
292 293 294 295 296 297 298 299 300 301 302	8mer 8mer 8mer 8mer 8mer 8mer 8mer 6mer 8mer 8mer	0.050688 0.050647 0.050597 0.050593 0.050576 0.050492 0.050489 0.050433 0.050383 0.050332	TTTTAGT CTGGGCCC CCGCCAGC CTCCGTAG CGGAGGTC CGTCCAAT TGAATGCA ACCTGG GCCTGGCC GGGCGGGC
292 293 294 295 296 297 298 299 300 301 302 303	8mer 8mer 8mer 8mer 8mer 8mer 6mer 8mer 8mer 8mer 8mer	0.050688 0.050647 0.050597 0.050593 0.050576 0.050492 0.050489 0.050433 0.050383 0.050332	TTTTTAGT CTGGGCCC CCGCCAGC CTCCGTAG CGGAGGTC CGTCCAAT TGAATGCA ACCTGG GCCTGGCC GGGCGGGC TGCCGGTC
292 293 294 295 296 297 298 299 300 301 302 303 304	8mer 8mer 8mer 8mer 8mer 8mer 6mer 8mer 8mer 8mer 8mer 8mer	0.050688 0.050647 0.050597 0.050593 0.050596 0.050492 0.050489 0.050433 0.050383 0.050332 0.050237	TTTTTAGT CTGGGCCC CCGCCAGC CTCCGTAG CGGAGGTC CGTCCAAT TGAATGCA ACCTGG GCCTGGCC TGCCGGT TGCCGGTC TAATACCG
292 293 294 295 296 297 298 299 300 301 302 303 304 305	8mer 8mer 8mer 8mer 8mer 8mer 6mer 8mer 8mer 8mer 8mer 8mer 8mer	0.050688 0.050647 0.050597 0.050593 0.050576 0.050492 0.050489 0.050383 0.050383 0.050323 0.050237 0.05022 0.050185	TTTTTAGT CTGGGCCC CCGCCAGC CTCCGTAG CGGAGGTC CGTCCAAT TGAATGCA GCCTGGC GGCCGGC GGCCGGC TGCCCGGT TAATACCG ATTACTGC
292 293 294 295 296 297 298 299 300 301 302 303 304 305 306	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.050688 0.050647 0.050597 0.050597 0.050492 0.050483 0.050383 0.050332 0.050237 0.0502 0.050185 0.050111	TTTTTAGT CTGGGCCC CCCCAGC CCCCAGC CTCCGTAG CGGAGGTC CGTCCAAT TGAATGCA ACCTGG GCCTGGCC GGGCGGCC TGCCGGTC TAATACCG CTTAATACCG CCTGAGCA
292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307	8mer 8mer 8mer 8mer 8mer 8mer 6mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.050688 0.050647 0.050597 0.050593 0.050492 0.050489 0.050433 0.050332 0.050237 0.0502 0.050185 0.0500185 0.050078	TTTTTAGT CTGGGCCC CCGCCAGC CTCCGTAG CGGAGGTC CGTCCAAT TGAATGCA ACCTGG GCCTGGCC GGGCGGGC TGCCGGTC TAATACCG ATTACTGC GCTGGCA GACTGTAT
292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.050688 0.050647 0.050597 0.050593 0.050576 0.050492 0.050433 0.050332 0.050237 0.0501185 0.0501111 0.050078	TTTTTAGT CTGGGCCC CGCCAGC CTCCGTAG CGGAGGTC CGTCCAAT TGAATGCA ACCTGG ACCTGGCC GGGCGGGC TGCCGGTC TAATACCG ATTACTGC CCTGAGCA GACTGTAT GGCGTGCT
292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308	8mer 8mer 8mer 8mer 8mer 8mer 6mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.050688 0.050647 0.050597 0.050593 0.050576 0.050492 0.050483 0.050332 0.050237 0.050237 0.050111 0.050078 0.050071 0.049974	TTTTTAGT CTGGGCCC CCGCCAGC CTCCGTAG CGGAGGTC CGTCCAAT TGAATGCA ACCTGG GCCTGGCC GGGCGGGC TGCCGGTC TAATACCG ATTACTGC CCTGAGCA GACTGTACT GAGCA GACTGTACT CGAGCA CCGGGCC CCGAGCA CCTGAGCA CCTGAGCA CCTGAGCA CGCGGTGCT CGAGAC
292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.050688 0.050647 0.050597 0.050593 0.050576 0.050489 0.050483 0.050332 0.050237 0.050237 0.050111 0.050078 0.050078 0.050074	TTTTTAGT CTGGGCCC CCCCCAGC CCCCCAGC CTCCGTAG CGGAGGTC CGTCCAAT TGAATGCA ACCTGG GCCTGGCC GGGCGGGC TGCCGGTC TAATACCG ATTACTGC CCTGAGCA GACTGTAT GGCGTGCT GGCGTGCC CCTGAGCA GACTGTAT GGCGTGCC CGAGCA GACTGAACCG GAAACCG
292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308	8mer 8mer 8mer 8mer 8mer 8mer 6mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.050688 0.050647 0.050597 0.050593 0.050576 0.050492 0.050483 0.050332 0.050237 0.050237 0.050111 0.050078 0.050071 0.049974	TTTTTAGT CTGGGCCC CCGCCAGC CTCCGTAG CGGAGGTC CGTCCAAT TGAATGCA ACCTGG GCCTGGCC GGGCGGGC TGCCGGTC TAATACCG ATTACTGC CCTGAGCA GACTGTACT GAGCA GACTGTACT CGAGCA CCGGGCC CCGAGCA CCTGAGCA CCTGAGCA CCTGAGCA CGCGGTGCT CGAGAC

571	8mer	0.04224	CAACGTCT
572	5mer	0.04222	CGAGG
573	8mer	0.04222	CCGAAGAC
574	5mer	0.04221	CTCGG
575	8mer	0.04217	TCGAGAGC
576	8mer	0.04215	ACGGCCCA
577	8mer	0.04214	CCGTGGAA
578	8mer	0.04213	AACTGCGG
579	8mer	0.04207	CCAGGCAC
580	8mer	0.04206	AGGTCGTA
581	8mer	0.04206	GCCCGGCA
582	8mer	0.04206	AAGCGAGG
583	8mer	0.04204	TGCTGCGC
584	8mer	0.04204	CGGAGGTT
585	8mer	0.04194	GTTCCCAC
586	8mer	0.04194	AGACGGTC
587	8mer	0.0419	CCATAGTG
588	8mer	0.04188	CGAAGGCG
589	8mer	0.04183	GCCGCCAG
590	8mer	0.04182	AGCTTTTG
591	8mer	0.04181	CCCGCCCC
592	8mer	0.04181	TCGACCTC
593	8mer	0.04173	CCCGGAGG
594	8mer	0.0417	CACCACTT
595	8mer	0.0417	GACCTCGG
596	6mer	0.04166	TCGCCC
597	Triplet	0.04159	Triplet
598	8mer	0.04158	TCCGGTTG
599	8mer	0.04153	CGGAAACG
600	6mer	0.04151	CTCACG
601	8mer	0.04145	ACAATGAG
602	8mer	0.04145	CCCTCGTC
603	8mer	0.04144	AGGTTCAA
604	8mer	0.04144	GCCCCCCG
605	8mer	0.04142	CCGGGCCC
606	8mer	0.04142	GGGAGATC
607	8mer	0.04138	TACTCGGG
608	8mer	0.04134	TACGTAAA
609	8mer	0.0413	TCGCGGGC
610	8mer	0.04129	CCCGTATT
611	8mer	0.04124	GACCTGGC
612	6mer	0.04121	TTCGCC
613	6mer	0.04121	AGGCAC
614	8mer	0.04118	GCCCGAGG
615	8mer	0.04114	GCATTCCG
616	8mer	0.04113	CATTCGAT
616 617	8mer 8mer	0.04111	GGGGCGGG
616 617 618	8mer 8mer 8mer	0.04111 0.04108	GGGGCGGG AAGGGTCC
616 617 618 619	8mer 8mer 8mer 8mer	0.04111 0.04108 0.04108	GGGGCGGG AAGGGTCC TTGCGGAA
616 617 618 619 620	8mer 8mer 8mer 8mer 5mer	0.04111 0.04108 0.04108 0.04104	GGGGCGGG AAGGGTCC TTGCGGAA GCGCG
616 617 618 619 620 621	8mer 8mer 8mer 8mer 5mer 8mer	0.04111 0.04108 0.04108 0.04104 0.04101	GGGGCGGG AAGGGTCC TTGCGGAA GCGCG CTAATGCA
616 617 618 619 620 621 622	8mer 8mer 8mer 8mer 5mer 8mer 8mer	0.04111 0.04108 0.04108 0.04104 0.04101 0.04095	GGGGCGGG AAGGGTCC TTGCGGAA GCGCG CTAATGCA CCCGTCTC
616 617 618 619 620 621 622 623	8mer 8mer 8mer 8mer 5mer 8mer 8mer 5mer	0.04111 0.04108 0.04108 0.04104 0.04101 0.04095 0.04091	GGGGCGGG AAGGGTCC TTGCGGAA GCGCG CTAATGCA CCCGTCTC GCCCC
616 617 618 619 620 621 622 623 624	8mer 8mer 8mer 8mer 5mer 8mer 8mer 5mer 6mer	0.04111 0.04108 0.04108 0.04104 0.04101 0.04095 0.04091 0.04088	GGGGCGGG AAGGGTCC TTGCGGAA GCGCG CTAATGCA CCCGTCTC GCCCC CGACGA
616 617 618 619 620 621 622 623	8mer 8mer 8mer 5mer 8mer 5mer 8mer 5mer 6mer 8mer	0.04111 0.04108 0.04108 0.04104 0.04101 0.04095 0.04091	GGGGCGGG AAGGGTCC TTGCGGAA GCGCG CTAATGCA CCCGTCTC GCCCC
616 617 618 619 620 621 622 623 624 625 626	8mer 8mer 8mer 5mer 5mer 8mer 5mer 6mer 8mer 8mer	0.04111 0.04108 0.04108 0.04104 0.04101 0.04095 0.04091 0.04088 0.04083 0.04082	GGGGCGGG AAGGGTCC TTGCGGAA GCGCG CTAATGCA CCCGTCTC GCCCC CGACGA CATCGCCG CCGCCGC
616 617 618 619 620 621 622 623 624 625 626 627	8mer 8mer 8mer 5mer 8mer 5mer 6mer 8mer 8mer 8mer 8mer	0.04111 0.04108 0.04108 0.04104 0.04101 0.04095 0.04091 0.04083 0.04083 0.04082	GGGGCGGG AAGGGTCC TTGCGGAA GCGCG CTAATGCA CCCGTCTC GCCCC CGACGA CATCGCCG CCGCCGGC GGGACCGC
616 617 618 619 620 621 622 623 624 625 626 627 628	8mer 8mer 8mer 8mer 5mer 8mer 5mer 6mer 8mer 8mer 8mer 8mer 8mer	0.04111 0.04108 0.04108 0.04104 0.04101 0.04095 0.04091 0.04083 0.04083 0.04082 0.0408	GGGGCGGG AAGGGTCC TTGCGGAA GCGCG CTAATGCA CCCGTCTC GCCCC CGACGA CATCGCCG CGGCCGGC GGGACCGC TAACGGGA
616 617 618 619 620 621 622 623 624 625 626 627 628 629	8mer 8mer 8mer 5mer 5mer 8mer 8mer 6mer 8mer 8mer 8mer 8mer 8mer 8mer	0.04111 0.04108 0.04108 0.04101 0.04101 0.04095 0.04091 0.04083 0.04082 0.0408 0.0408 0.0408	GGGGCGGG AAGGGTCC TTGCGGAA GCGCG CTAATGCA CCCGTCTC GGCCC CGACGA CATCGCCG CGGCGGC GGGACCGC TAACGGGA CGCGATGA
616 617 618 619 620 621 622 623 624 625 626 627 628 629 630	8mer 8mer 8mer 5mer 8mer 5mer 8mer 5mer 6mer 8mer 8mer 8mer 8mer 8mer 8mer	0.04111 0.04108 0.04108 0.04101 0.04101 0.04095 0.04091 0.04083 0.04082 0.0408 0.0408 0.0408 0.0408	GGGGCGGG AAGGTCC TTGCGGAA GCGCG CTAATGCA CCCGTCTC GCCCC CGACGA CATCGCG CCGCCGCC GGGACCGC TAACGGGA ACGCGCTACGCG ACGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGC
616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631	8mer 8mer 8mer 5mer 8mer 5mer 6mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.04111 0.04108 0.04104 0.04101 0.04101 0.04095 0.04083 0.04083 0.04082 0.0408 0.0408 0.0408 0.0408 0.0408	GGGGCGGG AAGGTCC TTGCGGAA GCGCG CTAATGCA CCCGTCTC GCCCC CGACGA CATCGCGG CCGCGGGC GGGACGC TAACGGGA CGCGATGA GCGCTAGG GCGCTAGG
616 617 618 619 620 621 622 623 624 625 626 627 628 629 630	8mer 8mer 8mer 5mer 8mer 5mer 8mer 5mer 6mer 8mer 8mer 8mer 8mer 8mer 8mer	0.04111 0.04108 0.04108 0.04101 0.04101 0.04095 0.04091 0.04083 0.04082 0.0408 0.0408 0.0408 0.0408	GGGGCGGG AAGGTCC TTGCGGAA GCGCG CTAATGCA CCCGTCTC GCCCC CGACGA CATCGCG CCGCCGCC GGGACCGC TAACGGGA ACGCGCTACGCG ACGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGC
616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633	8mer 8mer 8mer 8mer 5mer 8mer 8mer 6mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.04111 0.04108 0.04104 0.04101 0.04095 0.04091 0.04083 0.04082 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408	GGGGCGGG AAGGTCC TTGCGGAA GCGCG CTAATGCA CCCGTCTC GCCCC CGACGA CCGCCGC CGGCGGC GGGACCGC TAACGGGA ACGCGCT AACGGGA ACGCGCT AACGGGA ACGCGCTAGG GCGCTAGG
616 617 618 619 620 621 622 623 624 625 626 627 628 629 631 632	8mer 8mer 8mer 5mer 8mer 5mer 6mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.04111 0.04108 0.04104 0.04104 0.04101 0.04095 0.04091 0.04088 0.04083 0.04082 0.0408 0.0408 0.0408 0.0408 0.0408	GGGGCGGG AAGGGTCC TTGCGGAA GCGCG CTAATGCA CCCGTCTC GGCCC CGACGA CATCGCCG CGGCGGC GGGACCGC TAACGGGA CGCGTAG AGCGCTAG GCGCTAG GCGCTAG GCGCTAG GCGCTAG GCGCTAG GCGCTAG GCGCTAG GCGCTAG GTAACGGG GTAACGGG GTAACGGG
616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 633 634	8mer 8mer 8mer 5mer 8mer 5mer 8mer 5mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.04111 0.04108 0.04104 0.04101 0.04095 0.04093 0.04083 0.04083 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408	GGGGCGGG AAGGGTCC TTGCGGAA GCGCG CTAATGCA CCCGTCTC GCCCC CGACGA CATCGCG CCGCCGC CGGCGGC GGGACCGC TAACGGGA ACGCGCTAACGGGA ACGCGCTAGG GTAACGGG GTAACGGCA CTGGCTAAT CTGGGCCT
616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635	8mer 8mer 8mer 5mer 8mer 5mer 6mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.04111 0.04108 0.04104 0.04101 0.04095 0.04093 0.04083 0.04083 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408	GGGGCGGG AAGGGTCC TTGCGGAA GCGCG CTAATGCA CCCGTCTC GCCCC CGACGA CATCGCG GGGACCGC TAACGGGA ACGCGCTACGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG
616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 635	8mer 8mer 8mer 5mer 8mer 5mer 6mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.04111 0.04108 0.04104 0.04101 0.04095 0.04091 0.04083 0.04083 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408	GGGGCGGG AAGGTCC TTGCGGAA GCGCG CTAATGCA CCCGTCTC GCCCC CGACGA CATCGCG CCGCGGC TAACGGGA CGCGATGA ACGCGATGA GCGCTAGG GTAACGGG GTAACGGG GTAACGGG GTAACGGG GTAACGGG GTAACGGG GTCGTAAT CCTGGGCCT CCTGGCCG GAGGGG GAGGGG
616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637	8mer 8mer 8mer 8mer 5mer 8mer 5mer 6mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.04111 0.04108 0.04104 0.04101 0.04095 0.04091 0.04083 0.04082 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408	GGGGCGGG AAGGGTCC TTGCGGAA GCGCG CTAATGCA CCCGTCTC GGCCC CGACGA CATCGCCG CGGCGGC GGGACCGC TAACGGGA ACGCGTAA ACGCGTAA ACGCGTAAC CGCTAGC GTAACGGG GTAACGGG GTACGGG GTGGACCT
616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638	8mer 8mer 8mer 8mer 5mer 8mer 5mer 6mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.04111 0.04108 0.04104 0.04101 0.04095 0.04091 0.04088 0.04088 0.04088 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408	GGGGCGGG AAGGGTCC TTGCGGAA GCGCG CTAATGCA CCCGTCTC GCCC CGACGA CATCGCCG CGGCGGC GGGACCGC TAACGGA ACGCGTAACGGA ACGCGTAACGGA ACGCCTA GCGCTAGG GTAACGGG GTAACGGG GTAACGGC GTGGAAT CTGGGCCT CCTGGCGT GAGGGG GGGACCT CCTGGCGT CGTAATAC
616 617 618 619 620 621 622 623 624 625 626 627 628 630 631 632 633 634 635 636 637 638	8mer 8mer 8mer 8mer 5mer 8mer 5mer 6mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.04111 0.04108 0.04104 0.04101 0.04095 0.04091 0.04083 0.04083 0.04084 0.0408	GGGGCGGG AAGGTCC TTGCGGAA GCGCG CTAATGCA CCCGTCTC GCCC CGACGA CATCGCG CGGCGGC TAACGCG CGGCGGC TAACGCG GGACCGC TAACGGAA ACGCGCTAACGGAA ACGCGCTAACGGAA CTCGCGCTAACGGA CTCGGCGTAACGGG GTAACGGGA CTCGGCGT GAGGGCT CCTGGCCT CCTGGCCT CCTAATAC CTCGGC
616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640	8mer 8mer 8mer 8mer 5mer 8mer 5mer 6mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.04111 0.04108 0.04104 0.04101 0.04095 0.04091 0.04083 0.04083 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408	GGGGCGGG AAGGTCC TTGCGGAA GCGCG CTAATGCA CCCGTCTC GCCCC GCCCGCGCG CGGCGGCG GGGACCGC TAACGGGA ACGCGCTACGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG
616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641	8mer 8mer 8mer 8mer 5mer 8mer 5mer 6mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.04111 0.04108 0.04104 0.04101 0.04095 0.04091 0.04083 0.04088 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.04073 0.04073 0.04071 0.04065 0.04065	GGGGCGGG AAGGTCC TTGCGGAA GCGCG CTAATGCA CCCGTCTC GCCCC CGACGA CATCGCG GGGACCGC TAACGCG GGGACCGC TAACGGGA ACGCGCTAC GCGCTACG GGGACCGC TAACGGGA ACGCGTACG GCGCTAGG GTAACGGG GTACGGG GTACGGG TACGGGG TCGGGCTAC CCTGGCCT CCTGGCCT CCTGGCCT CTGGCCT CTGGCCT CTTGGCC GGCGTTCA TCCGCC GGCGTTCA TCCGCC CGAACACC
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616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 642	8mer 8mer 8mer 8mer 5mer 8mer 5mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.04111 0.04108 0.04104 0.04101 0.04095 0.04095 0.04083 0.04083 0.04082 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0406 0.04071 0.04071 0.04065 0.04057 0.04057	GGGGCGGG AAGGGTCC TTGCGGAA GCGCG CTAATGCA CCCGTCTC GCCC CGACGA CATCGCGG CGGCGGG CGGCGGC GGGACCGC GGCGTAATGCA ACGCGTAATGCA ACGCGTAATGCA ACGCGTAATGCA ACGCGTAGA ACGCGTAGA ACGCGTAGA ACGCGTAGA ACGCGTAGA CTGGGCGT CCTGGGCGT CCTGGCGT CCTGGCGT TCGGCCT TCGGCCA TCACGCC CGAACACC ACGGCC AACGGGTT
616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643	8mer 8mer 8mer 8mer 5mer 8mer 8mer 5mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.04111 0.04108 0.04104 0.04101 0.04095 0.04098 0.04083 0.04083 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0407 0.0407 0.0407 0.04079 0.04079 0.04065 0.04065 0.04056	GGGGCGGG AAGGTCC TIGCGGAA GCGCG CTAATGCA CCCGTCTC GCCC CGACGA CATCGCG GGGACCGC TAACGGGA ACGCGCTAACGGG ACGCGTAACGGG TAACGGGA ACGCGCTACGCGCTAACGGGACCTACGGCTAACGGG GTAACGGG GTAACGGG TCGGACTACCTGGCGTAATACC CCTGGCCT CCTGGCCT CCTGGCCT CCTGGCCT CCTCGCC GGCGTTCA TCACGCCA TCACCCC TCCGCC TCCGCCC TCCCCC TCCCC TCCCCC TCCCCC TCCCCC TCCCCC TCCCCC TCCCCC TCCCCC TCCCC TCCCCC TCCCCC TCCCCC TCCCCC TCCCCC TCCCC TCCC TCCCC TCCC TCCCC TCCC TCC TCCC TCC TCCC TCC TCCC TCC T
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616 617 618 619 620 621 622 623 624 625 626 627 628 629 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.04111 0.04108 0.04104 0.04101 0.04095 0.04091 0.04088 0.04088 0.04088 0.04088 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.04071 0.04072 0.04071 0.04065 0.04057 0.04057 0.04056 0.04058 0.04048 0.04056 0.04048	GGGGCGGG AAGGGTCC TTGCGGAA GCGCG CTAATGCA CCGTCTC GCCC CGACGAC CATCGCGG GGACCGC TAACGGGA ACGCGTAGA ACGCGTAGA ACGCGTAGA ACGCGTAGA ACGCGTAGA CTGGCGT CTGCGTAGA CTGGCCT CCTGCGT GAGGGG TGGGACCT CCTGCGT CGTAATAC CTCGGC TCGAATAC TCGGCT TCGGCT TCGGCT TCGGCT TCACGCCA TCCGCC TCGAACACC TCGAACACC TGCTTACC TCGACCA TCACGCCA TCACGCCA TCACGCCA TCACGCCA TCACGCCA TCACGCCT TCACGCCT TCACGCCT TCACGCCT CGAACACC TGCTTACC CGAACACC TCACGCCT CACGCCT CACGCCCT CACGCCT CACGCCT CACGCCT CACGCCT CACGCCT CACGCCT CACGCCT CACGCCCT CACGCCC CACACCC CACACCC CACACCC CACACCC CACACCC CACACCC CACACC C
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616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 637 638 639 640 641 642 643 644 645 646 647 648 649	8mer 8mer 8mer 8mer 5mer 8mer 5mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.04111 0.04108 0.04104 0.04104 0.04101 0.04095 0.04093 0.04088 0.04088 0.04088 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0407 0.04072 0.04071 0.04065 0.04065 0.04057 0.04057 0.04057 0.04057 0.04057 0.04057 0.04054 0.04064 0.04046 0.04046 0.04046 0.04046 0.04046 0.04046 0.04046 0.04046 0.04046 0.04046 0.04046 0.04046 0.04046 0.04046 0.04046	GGGGCGGG AAGGGTCC TTGCGGAA ACGCGC CTAATGCA CCGTCTC GCCC CGACGA CATCGCG GGACCGC TAACGGGA ACGCGTAGA ACGCGTAGA ACGCGTAGA ACGCGTAGA ACGCGTAGA ACGCGTAGA ACGCGTAGA ACGCGTAGA ACGCGTAGA ACGCCTAGGCGT ACGGATGAAT CTGGCCT CCTGGCGT GAGAGGCT TCGGCCT TCGGCCT TCGGCCT TCACGCC TCCTACT TCACGCC TCCTACT TCACGCC TCCTACT TCACGCC TCCTACT TCACGCC CGAACACC CGAACACC CCGACCCC CCGACCCC CCGACCCC CCGACCCC CCCCACCCCC CCCCCCC CCCCCCCC
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616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 646 647 648 649 650 651 652 653 654 655 656	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.04111 0.04108 0.04104 0.04104 0.04101 0.04095 0.04093 0.04083 0.04083 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0407 0.04073 0.04072 0.04072 0.04073 0.04056 0.04065 0.04065 0.04064 0.04056 0.04064 0.04046 0.0404 0.0404 0.0404 0.0404 0.0403 0.04037 0.04033 0.04033 0.04033	GGGGCGGG AAGGTCC TTGCGGAA GCGCG CTAATGCA CCCGTCTC GCCC CGACGA CATCGCG GGGACCGC TAACGGGA ACGCGCTAACGCG GGGACCGC TAACGGGA ACGCGTAACGGGA ACGCGTAACGGGA CTCGGCGTAACGGGA CTCGGCGTAACGGGA CTCGGCGTAACGGGA CTCGGCGTAACGGGA CTCGGCCT
616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 637 638 639 640 641 642 643 644 645 646 647 648 650 651 655 656 657 658	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.04111 0.04108 0.04104 0.04104 0.04101 0.04095 0.04093 0.04088 0.04088 0.04088 0.04088 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0407 0.04072 0.04072 0.04072 0.04073 0.04057 0.04056 0.04057 0.04056 0.04057 0.04058 0.04048 0.04048 0.04048 0.04048 0.04048 0.04048 0.04048 0.04048 0.04033 0.04033 0.04031	GGGGCGGG AAGGGTCC TTGCGGAA ACGCGC CTAATGCA CCCGTCTC GCCC CGACGAC CATCGCGG CGGACGGC GGGACGGC GGGACGGC GTAACGGG CTAACGGGA CTACGCGTAGACGAC CTGGCGTTAACGGGACGC CTGGCGTAGACGCC CGCGCGGCCGGCCGGGCCG
616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.04111 0.04108 0.04104 0.04101 0.04095 0.04091 0.04088 0.04088 0.04088 0.04088 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.04071 0.04071 0.04065 0.04065 0.04057 0.04057 0.04057 0.04054 0.04064 0.04040 0.04040 0.04040 0.04040 0.04040 0.04040 0.04031 0.04031 0.04031 0.04031 0.04031	GGGGCGGG AAGGGTCC TTGCGGAA GCGCG CTAATGCA CCCGTCTC GCCC CGACGA CATCGCCG CGGCGGC GGGACCGC TAACGGGA ACGCGTAACGGG GGGACGGC GGACGGC GGGACGC GGGACGC GGGACGC GGACGC GGCGTCAA TCACGCC GGAACACC TCGGC GGGACGC GGACGC GGACGC CGAACACC CCGGACGC GGGACGC CCCCGACCCC GGGACCCC GGGACCCC GGGACCCC CGCACCCCG GGGCTCACC CCCCGACCCC GGCGCTG TCCTACCC CCCCGACCCC GCCCCGACCCC GCCCCGACCCC GCCCCGACCCC GCCCCCGC GCCCCCCCC
616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.04111 0.04108 0.04104 0.04101 0.04095 0.04093 0.04088 0.04083 0.04088 0.04088 0.04088 0.04088 0.04088 0.04088 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.04071 0.04073 0.04071 0.04065 0.04056 0.04056 0.04056 0.04056 0.04056 0.04056 0.04056 0.04056 0.04040 0.0404 0.0404 0.0404 0.0404 0.0404 0.0403 0.04033 0.04033 0.04033 0.04033	GGGGCGGG AAGGGTCC TTGCGGAA GCGCG CTAATGCA CCCGTCTC GCCC CGACGGC GGGACCGC GGGACGGC GTAATGCA CCGCTCT GCCC CGCCGCGC GGGACCGC GGGCTAATGCA CCGCTCT CCGCGCT GCGCGCT GCGCTAATGCA CCGCTAGG GGGATGA ACGCGCT GTGGACTA CTGGCCT GGGACTA CTCGCC GGCTTAAC CTCGCC TGCTTACC AACGCCT TGCTTACC AACGCCT CGAACACC TGCTTACC CGAACACC TGCTTACC CGCCCGC CGAACGCG CGCCCCG CGCCCCC CGCCCCCC CGCCCCCC CGCCCCCC
616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.04111 0.04108 0.04104 0.04101 0.04095 0.04091 0.04088 0.04088 0.04088 0.04088 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.0408 0.04071 0.04071 0.04065 0.04065 0.04057 0.04057 0.04057 0.04054 0.04064 0.04040 0.04040 0.04040 0.04040 0.04040 0.04040 0.04031 0.04031 0.04031 0.04031 0.04031	GGGGCGGG AAGGGTCC TTGCGGAA GCGCG CTAATGCA CCCGTCTC GCCC CGACGA CATCGCCG CGGCGGC GGGACCGC TAACGGGA ACGCGTAACGGG GGGACGGC GGACGGC GGGACGC GGGACGC GGGACGC GGACGC GGCGTCAA TCACGCC GGAACACC TCGGC GGGACGC GGACGC GGACGC CGAACACC CCGGACGC GGGACGC CCCCGACCCC GGGACCCC GGGACCCC GGGACCCC CGCACCCCG GGGCTCACC CCCCGACCCC GGCGCTG TCCTACCC CCCCGACCCC GCCCCGACCCC GCCCCGACCCC GCCCCGACCCC GCCCCCGC GCCCCCCCC

921			
	8mer	0.035724	ACTGCACG
922	8mer	0.035716	GAGGGCCG
923	8mer	0.03568	ACCATTAA
924	6mer	0.03567	CGGAGC
925	8mer	0.035668	CAAGCGAA
926	8mer	0.035666	GCGGCCAA
927	8mer	0.035652	GCCATCTA
928	5mer	0.035632	ACCTC
929	8mer	0.035597	GTCTAGGC
930	8mer	0.035581	ATCATTAT
931	8mer	0.035577	TGGGCCCC
932	8mer	0.035562	TAACCGCG
933	8mer	0.035558	GGCTGGGA
934	8mer	0.035557	GTAAACAT
935	6mer	0.035553	CCGGGG
936	8mer	0.035551	CGTCCAGG
937	6mer	0.035534	GCACGA
938	8mer	0.035506	CGGACTAG
939	6mer	0.035485	GCCCTA
940	8mer	0.035482	GGACCTAG
941	8mer	0.035439	TAGTGTCC
942	8mer	0.035432	CACTACAG
943	8mer	0.035424	CGCTTCTT
944	8mer	0.035384	TCCCAACG
945	8mer	0.035383	CCGGGGTG
946	8mer	0.035364	CGGCGCGC
947	8mer	0.03536	TGGGATTA
948	8mer	0.035351	AGCCGGGG
949	8mer	0.035331	TTCACTAG
950	8mer	0.035334	CCCTTCGA
951	6mer	0.035237	GGCCGG
951	8mer	0.035237	CTGCGCCT
952	6mer	0.03522	CCCAGG
953	8mer	0.035216	CTCGGCTG
955	8mer	0.03518	CACGCCAC
956	8mer	0.035120	CTCGGGTC
957	8mer	0.035113	CGGCGTGC
958	6mer	0.035093	CCGGCA
958	8mer	0.035071	CTGTCGAC
960	8mer	0.035069	TAGTGGGA
961	8mer	0.035051	CTCAGCCT
962	8mer	0.035051	GGCCGCTC
	OHIEL		
		0 035010	(3(3('('\D')2')
963	8mer	0.035019	GGCCAGGT
963 964	8mer 8mer	0.035018	TTCACGCC
963 964 965	8mer 8mer 8mer	0.035018 0.035013	TTCACGCC CTGGCCAC
963 964 965 966	8mer 8mer 8mer 8mer	0.035018 0.035013 0.034942	TTCACGCC CTGGCCAC CTGGGCTG
963 964 965 966 967	8mer 8mer 8mer 8mer 8mer	0.035018 0.035013 0.034942 0.034939	TTCACGCC CTGGCCAC CTGGGCTG GTCGGAAA
963 964 965 966 967 968	8mer 8mer 8mer 8mer 8mer 8mer	0.035018 0.035013 0.034942 0.034939 0.034897	TTCACGCC CTGGCCAC CTGGGCTG GTCGGAAA GCACTTGT
963 964 965 966 967 968 969	8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.035018 0.035013 0.034942 0.034939 0.034897 0.034893	TTCACGCC CTGGCCAC CTGGGCTG GTCGGAAA GCACTTGT TCGCTTGA
963 964 965 966 967 968 969 970	8mer 8mer 8mer 8mer 8mer 8mer 8mer 5mer	0.035018 0.035013 0.034942 0.034939 0.034897 0.034893 0.034853	TTCACGCC CTGGCCAC CTGGGCTG GTCGGAAA GCACTTGT TCGCTTGA GCCGA
963 964 965 966 967 968 969 970 971	8mer 8mer 8mer 8mer 8mer 8mer 8mer 5mer 8mer	0.035018 0.035013 0.034942 0.034939 0.034897 0.034893 0.034853 0.034842	TTCACGCC CTGGCCAC CTGGGCTG GTCGGAAA GCACTTGT TCGCTTGA GCCGA ACTCAGTG
963 964 965 966 967 968 969 970 971 972	8mer 8mer 8mer 8mer 8mer 8mer 5mer 8mer 8mer 8mer	0.035018 0.035013 0.034942 0.034939 0.034897 0.034893 0.034853 0.034842 0.034833	TTCACGCC CTGGCCAC CTGGGCTG GTCGGAAA GCACTTGT TCGCTTGA GCCGA ACTCAGTG GAACTTAA
963 964 965 966 967 968 969 970 971 972 973	8mer 8mer 8mer 8mer 8mer 8mer 5mer 8mer 8mer 8mer 8mer	0.035018 0.035013 0.034942 0.034939 0.034897 0.034893 0.034853 0.034842 0.034833 0.034822	TTCACGCC CTGGCCAC CTGGGCTG GTCGGAAA GCACTTGT TCGCTTGA GCCGA ACTCAGTG GAACTTAA CCCCAGGC
963 964 965 966 967 968 969 970 971 972 973 974	8mer 8mer 8mer 8mer 8mer 8mer 5mer 8mer 8mer 8mer 8mer 8mer	0.035018 0.035013 0.034942 0.034939 0.034897 0.034893 0.034853 0.034853 0.034842 0.034833 0.034822 0.034799	TTCACGCC CTGGCCAC CTGGCCTG GTCGGAAA GCACTTGT TCGCTTGA ACTCAGTG GAACTTAA CCCCAGGC TCCCCCAA
963 964 965 966 967 968 969 970 971 972 973 974 975	8mer 8mer 8mer 8mer 8mer 8mer 5mer 8mer 8mer 8mer 8mer 8mer 8mer	0.035018 0.035013 0.034942 0.034939 0.034897 0.034893 0.034853 0.034842 0.034833 0.034822 0.034799	TTCACGCC CTGGCCAC CTGGGCTG GTCGGAAA GCACTTGT TCGCTTGA GCCGA ACTCAGTG GAACTTAAC CCCCAGGC TCCCGCAA TCTCAGCT
963 964 965 966 967 968 969 970 971 972 973 974 975	8mer 8mer 8mer 8mer 8mer 8mer 5mer 8mer 8mer 8mer 8mer 8mer 5mer	0.035018 0.035013 0.034942 0.034939 0.034897 0.034893 0.034853 0.034842 0.034833 0.034822 0.034799 0.034779	TTCACGCC CTGGCCAC CTGGCCAC CTGGGCTG GTCGGAAA GCACTTGT TCGCTTGA GCCGA ACTCAGTG GAACTTAA CCCCAGGC TCCCGCAA TCTTAAGT CGCAC
963 964 965 966 967 967 968 969 970 971 972 973 974 975 976	8mer 8mer 8mer 8mer 8mer 8mer 5mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.035018 0.035013 0.034942 0.034939 0.034897 0.034893 0.034853 0.034842 0.034833 0.034822 0.034799 0.034779 0.034779	TTCACGCC CTGGCCAC CTGGGCTG GTCGGAAA GCACTTGT TCGCTTGA GCCGA ACTCAGTG GAACTTAAGT TCCCGCAA TCTTAAGT CGCAC TGGCAC
963 964 965 966 967 968 969 970 971 972 973 974 975 976 977	8mer 8mer 8mer 8mer 8mer 8mer 5mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.035018 0.035013 0.034942 0.034897 0.034893 0.034853 0.034853 0.034842 0.034799 0.034779 0.034747 0.034736	TTCACGCC CTGGCCAC CTGGCCAC CTGGGCTG GTCGGAAA GCACTTGT TCGCTTGA GCCGA ACTCAGTG GAACTTAA CCCCAGGC TCCCGCAA TCTTAAGT CGCAC TGTGGCCG CCCTGATT
963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978	8mer 8mer 8mer 8mer 8mer 8mer 5mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.035018 0.035013 0.034942 0.034939 0.034893 0.034853 0.034842 0.034833 0.034832 0.034799 0.034779 0.034735 0.034735	TTCACGCC CTGGCCAC CTGGCCAC CTGGGCTG GTCGGAAA GCACTTGT TCGCTTGA GCCGA ACTCAGTG TCCCCAGGC TCCCGCAA TCTTAAGT CGCAC TGTGGCCG CCCTGATT CGCAAAAG
963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978	8mer 8mer 8mer 8mer 8mer 8mer 5mer 8mer 8mer 8mer 8mer 5mer 8mer 8mer 8mer 8mer 8mer 8mer	0.035018 0.035013 0.034942 0.034939 0.034897 0.034853 0.034853 0.03482 0.034799 0.034779 0.034736 0.034736	TTCACGCC CTGGCCAC CTGGCCAC CTGGGCAC GCCGGAA GCACTTGT TCGCTTGA GCCGA ACTCAGTG GAACTTAA TCTCAGGC TCCCGCAA TCTTAAGT CGCAC TGTGGCCG TGTGGCCG TGCGCAA ACTGAGC TGTGGCCG ACC TGTGGCCG ACC TGTGGCCG ACC TGTGGCCG ACC TGTGGCCG ACC ACC ACC ACC ACC ACC ACC ACC AC
963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980	8mer 8mer 8mer 8mer 8mer 8mer 5mer 8mer 8mer 8mer 5mer 8mer 5mer 8mer 8mer 8mer 8mer 8mer 8mer	0.035018 0.035013 0.034942 0.034939 0.034897 0.034893 0.034853 0.034842 0.034739 0.034779 0.034779 0.034736 0.034735 0.034734 0.034731	TTCACGCC CTGGCCAC CTGGCCAC CTGGGCTG GTCGGAAA GCACTTGT TCGCTTGA GCCGA ACTCAGTG GAACTTAA CCCCAGGC TCCCGCAA TCTTAAGT CGCAC TGTGGCCG CCCTGATT CGCAAAAG ACAAGCGA CCGGCAAT CGCAAAAG CGCGCGTT
963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981	8mer 8mer 8mer 8mer 8mer 8mer 5mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.035018 0.035013 0.034942 0.034897 0.034893 0.034893 0.034842 0.034833 0.034822 0.034799 0.034774 0.034735 0.034734 0.034734 0.034731 0.034731 0.034731	TTCACGCC CTGGCCAC CTGGCCAC CTGGGCTG GCGGAAA GCACTTGT TCGCTTGA GCCGA ACTCAGTG GAACTTAA CCCCAGGC TCCCGCAA TCTTAAGT CGCAC TGTGGCCG CCCTGATT CGCAAAAG ACAAGCGA ACAGGGCTT GAGGGCCT GAGGGCCT GAGGGCCT GAGGGCCT
963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981	8mer 8mer 8mer 8mer 8mer 8mer 5mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.035018 0.035013 0.034942 0.034893 0.034893 0.034853 0.034833 0.034832 0.034779 0.034779 0.034735 0.03473 0.03473 0.03473 0.03473 0.03473 0.03473 0.034710	TTCACGCC CTGGCCAC CTGGCCAC CTGGGCTG GTCGGAAA GCACTTGT TCGCTTGA GCCGA ACTCAGTG TCCCCGCAA TCTTAAGT CGCAC TCTGAGCCG CCCTGATT CGCAC CCCTGATT CGCAAAAG ACAAGCGA CGGCGCGT CGAGGCCT CGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGC
963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 980 981 982 983	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.035018 0.035013 0.034942 0.034939 0.034893 0.034853 0.034853 0.034832 0.034799 0.034779 0.034735 0.034735 0.034734 0.034734 0.034734 0.034735 0.034730 0.034735	TTCACGCC CTGGCCAC CTGGCCAC CTGGGCTG GTCGGAAA GCACTTGA GCCGA ACTCAGTG TCCCGCAA TCTTAAGT CGCAC TGTGGCCG CCCTGATT CGCAAAAG ACAAGCGA CGACAC GCAC TGTGGCCG CCTGATT CGCAAAAG ACAAGCGA ACAAGCGA ACAAGCGA ACAGCGA ACAGCGCT GGCGCCT GAGGCCT ACAGGCCT ACAGGCCT ACAGGCCT ACAGGCCT ACAGGCCT ACAGGCCT ACAGGCCT ACAGGCCAC ACCAGGGC
963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.035018 0.035013 0.034942 0.034893 0.034893 0.034893 0.034853 0.03482 0.034799 0.034779 0.034736 0.034736 0.034736 0.034736 0.034736 0.034736 0.034736 0.034737 0.034709	TTCACGCC CTGGCCAC CTGGCCAC CTGGCCAC CTGGCTGG GCCGAAA GCACTTGT TCGCTTGA GCCGA ACTCAGTG GAACTTAA CCCCAGGC TCCCGCAA TCTTAAGT CGCAC TGTGGCCG CCCTGATT CGCAAAAG CCAAAAG CGAACGG CGGGCGT GGGCGT GGGCGTCGG GCGTCGG ACCAGGGGACCCT
963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986	8mer 8mer 8mer 8mer 8mer 8mer 5mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer 8	0.035018 0.035013 0.034942 0.034893 0.034893 0.034893 0.034853 0.034842 0.034893 0.034893 0.034893 0.034799 0.034774 0.034736 0.034735 0.034724 0.034709 0.034709 0.034709 0.034709 0.034709 0.034709 0.034709	TTCACGCC CTGGCCAC CTGGCCAC CTGGCCAC CTGGGCTG GCGCAC GCCGA ACTCAGTG GCACTTAAGT CCCAGCA TCTTAAGT CGCAC TGTGGCCG CCCTGATT CGCAAAAG ACAACAGGA ACAACGA ACAACGA ACAACGA ACAACGA ACAACGA ACAACGA ACAACGA ACAACGA ACAACGA CAGGGCCT GCGCAC TGAGGCCT CTAATGGT CGCAC CCTGATT CGCAAAAG ACAACGA ACAACGA ACAACGA ACAACGA ACAACGA ACAACGCT CTAATGGT
963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 980 981 982 983 984 985 986	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.035018 0.035013 0.034942 0.034893 0.034893 0.034893 0.034893 0.034893 0.034893 0.034893 0.034893 0.034799 0.034774 0.034773 0.03473 0.034724 0.034709 0.034709 0.034709 0.034709 0.034709 0.034709 0.034709 0.034709 0.034709	TTCACGCC CTGGCCAC CTGGCCAC CTGGGCTG GTCGGAAA GCACTTGA GCCGA ACTCAGTG TCCCCGCAA TCTTAAGT CGCAC TGGCCGC TGGCCGCAA TCTTAAGT CGCAC TGTGGCCG CCCTGATT CGCAAAAG ACAGCGAC ACAGCGGCGT GAGGGCCT GAGGGCCT GCCGCAC ACCAGGGG ACCAGGGGACCT CTCTAATGGT ACCGCTGG
963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 980 981 982 983 984 985 986 987	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.035018 0.035013 0.034942 0.034893 0.034893 0.034853 0.034833 0.034822 0.034799 0.034779 0.034735 0.03473 0.034735 0.034724 0.034709 0.034709 0.034709 0.034709	TTCACGCC CTGGCCAC CTGGCCAC CTGGCCAC CTGGGCTG GTCGGAAA GCACTTGT TCGCTTGA GCCGA ACTCAGTG TCCCCCAA TCTTAAGT CGCAC TCTGACGCA TCTGAGCCG CCCTGATT CGCAAAAG ACAAGCGA CGGCGTCGG ACCAGGCCT GAGGGCCT GACGGCGCTCGGCACACAGGCCTCACAGGCCCTCACAGGCCTCGCACACAGGCCCTCGCCCCCCCC
963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 980 981 982 983 984 985 986 987	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.035018 0.035013 0.034942 0.034939 0.034893 0.034853 0.034853 0.034822 0.034739 0.034779 0.034736 0.034736 0.034736 0.034736 0.034730 0.034707 0.034707 0.034707 0.034707 0.034707 0.034694 0.034684 0.034677	TTCACGCC CTGGCCAC CTGGCCAC CTGGCCAC CTGGCCAC GTCGGAAA GCACTTGT TCGCTTGA GCCGA ACTCAGTG GAACTTAA CCCCAGGC TCCCGCAA TCTTAAGT CGCAC TGTGGCCG CCCTGATT GGCAAAG ACAGGGCGT GGCGCTCGG ACAGGGCCT CTAATGGT ACCGCTAG ACCGCTGGC ACCGCTAG ACCGCTGGC ACCGCTCGAC ACCGCCCC CTAATGGT ACCGCTGGC ACCGCTGGC ACCGCTGGC ACGCCCGCAC ACGCCCGCAC ACGCCGCAC ACGCCCGCAC ACGCCCAC ACGCCCAC ACGCCCAC ACGCCCAC ACGCCCAC ACGCCCAC ACGCCCCAC ACGCCCAC ACGCCCCAC ACGCCCCCAC ACGCCCCCCAC ACGCCCCCCCC
963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.035018 0.035013 0.034942 0.034893 0.034893 0.034893 0.034853 0.034822 0.034799 0.034774 0.034736 0.034736 0.034737 0.034709 0.034709 0.034709 0.034709 0.034709 0.034709 0.034709 0.034709 0.034709 0.034709 0.034709 0.034709 0.034709 0.034709 0.034709 0.034709 0.034709	TTCACGCC CTGGCCAC CTGGCCAC CTGGCCAC CTGGCTGG GCGGAAA GCACTTGT TCGCTTGA GCCGA ACTCAGTG GAACTTAA CCCCAGGC TCCCGCAA TCTTAAGT CGCAC TGTGGCCG CCCTGATT CGCAAAAG CAGGCGT GAGGCCT CGCACAC GCGCTCGG ACAGGGG ACAGGGG ACCACCT CTAATGGT ACCGCTGG GCGCTCGG ACCGCTGG ACCGCTGG ACCGCTGG ACCGCTGG ACGCCCC CTAATGGT ACCGCTGG GGCAC CTAATGGT ACCGCTGG GGCAC CATGGCAT
963 964 965 966 966 967 968 969 970 971 972 973 974 975 976 977 980 981 982 983 984 985 986 987 988 989	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.035018 0.035013 0.034942 0.034893 0.034893 0.034893 0.034852 0.034893 0.034822 0.034799 0.034736 0.03473 0.03473 0.03473 0.034709 0.034709 0.034709 0.034709 0.034709 0.034709 0.034709 0.034709 0.034709 0.034709 0.034709 0.034709 0.034709 0.034709 0.034709 0.034709 0.034709 0.034709 0.034605 0.034665 0.034665	TICACGCC CTGGCCAC CTGGCCAC CTGGCCAC CTGGGCTG GCGCAC GCCGA ACTCAGTG GCACTTAAGT CCCACAC TGTGGCCAC TGTGGCCAC TGTGGCCG CCCTGATT CGCAAAAG ACAGCGCT GAGGCCT GAGGCCT GAGGCCT GAGGCCT GAGGCCT GAGGCCT GAGGCCT CTAATGGT ACCCCGCAC CCTGATT CGCAAAAG ACAACGA ACAACGA ACAGGGCT GAGGCCT GAGGCCT CTAATGGT ACCGCTGG ACCACGGG ACCACGGG ACCACGGG ACCAGGGG ACCAGGGGG ACCAGGGGG ACCAGGGGG ACCAGGGGG ACCAGGGGGG ACCAGGGGGGG ACCAGGGGGGGG
963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 980 981 982 983 984 985 986 987 988 989	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.035018 0.035013 0.034942 0.034897 0.034893 0.034853 0.034853 0.034822 0.034779 0.034779 0.034735 0.034736 0.034736 0.034707 0.034709 0.034707 0.034707 0.034707 0.034707 0.034707 0.034707 0.034707 0.034707 0.034707 0.034707 0.034707 0.034707 0.034691 0.034691 0.034667 0.034667 0.034658	TTCACGCC CTGGCCAC CTGGCCAC CTGGCCAC CTGGGCTG GTCGGAAA GCACTGA ACTCAGTG ACTCAGTG TCCCGCAA TCTTAAGT CGCAC TGTGGCCG CCTGAIT CGCAAAAG ACAAGCGA ACAGCGA CACAGGCGT CGCACA TGTGGCCG CCTGAIT CGCAAAAG ACAGCGAC CGCGCGCG ACGCGCGCAC ACGCGCGCAC AGGCAC TCTAATGGT ACCAGCGCAC AGGCAC CTAATGGT ACCAGCGCAC AGGCAC CTAATGGT ACCAGCGCAC AGGCCC CTAATGGT ACCAGCGCAC AGGCCC CTGATGGCAC AGGCCG CATGCAT CCGCTGGC CATGCAT CCGCTGGC CATGCAT CCGTTGTT TGTTGG
963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 980 981 982 983 984 985 986 987 988 989 990	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.035018 0.035013 0.034942 0.034939 0.034893 0.034853 0.034822 0.034739 0.034779 0.034779 0.034736 0.034736 0.034736 0.034736 0.034707 0.034701 0.034701 0.034701 0.034707 0.034707 0.034707 0.034707 0.034691 0.034691 0.034697 0.034684 0.034657	TICACGCC CTGGCCAC CTGGCCAC CTGGCCAC CTGGCCAC GTCGGAAA GCACTIGT TCGCTIGA GCCGA ACTCAGTG GAACTTAA CCCCAGGC TCCCGCAA CCTGGCCG TCGCACA GCGAC GAGCGT GGACCTGGCCG CCTGATT GAGGCG CCCTGATT GAGGCGT GAGGCGT GAGGCGT GAGGCGT CCCAGAGGCGT CCAGGGG ACCAGGGG ACCAGGGG ACCACGTGG ACCAGTGG ACCAGTGG ACCAGTGG ACCAGTGG ACGCTTGT ACCGTTGG CATGGCAT GGGCAG ACGCAT GGGCAG ACGCAT GGGCAG ACGCAT GCGTTGGT ACCAGGAG ACCAGGAG ACCAGGAG ACCAGGAG ACCAGGAG ACCAGAG
963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.035018 0.035013 0.034942 0.034893 0.034893 0.034893 0.034853 0.034822 0.034799 0.034779 0.034774 0.034735 0.034736 0.034709 0.034709 0.034709 0.034709 0.034709 0.034709 0.034709 0.034709 0.034684 0.034684 0.034684 0.034685 0.034655 0.034587	TICACGCC CTGGCCAC CTGGCCAC CTGGCCAC CTGGCCAC CTGGCAAA GCACTIGT TCGCTIGA GCCGA ACTCAGTG GCACATTAAA CCCCAGCA TCTTAAGT CGCAAAAG CCCTGATT CGCAAAAG CACAGGCG ACAGGCGT GAGGCCT CAGGCCT CTAATGCT GAGGCCT CTAATGCT ACGCTGG ACCACGCC CTAATGCT ACGCTGG GCGCAC CTAATGCT ACCGCTGG GGCAG CCATGGCAT CCATGCCAC CCATGCCAC CCATGCCAC CCATGCCAC CCACGAAC CCACCACAC CCACCACAC CCACCACAC CCCCGAAC CCCCGAAC CCCCGAAC CCCCGACC CTGCTGCACCACCACCACCACCACCACACCCCCCACACCCCCCCC
963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 980 981 982 983 984 985 986 987 988 989 990 991 992 993	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.035018 0.035013 0.034942 0.034893 0.034893 0.034893 0.034852 0.034893 0.034842 0.034893 0.034893 0.034892 0.034799 0.034774 0.034736 0.034736 0.034736 0.034709	TICACGCC CTGGCCAC CTGGCCAC CTGGCCAC CTGGCCAC GCGCAC GCCGAA ACTCAGTG GCACTTAA CCCCAGCA TCTTAAGT CGCAC TGTGGCCG CCTGATTA GCAAAAG CACAGGC TGTGGCCG CCTGATT CGCAC CCTGGTT GAGGCCT GCGTCGG ACCACGCG GCGCCG CTAATGGT ACCGCTGG GGCAG CCGCGC CATGGCAT CCGCAGC CATGGCAT CCGAGC CATGCCAC CCGACGC CACCGACC CACCC CACC CACCC CACCC CACCC CACCC CACCC CACCC CACCC CACCC CACCC
963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.035018 0.035013 0.034942 0.034893 0.034893 0.034893 0.034893 0.034893 0.034893 0.034893 0.034893 0.034893 0.034799 0.034774 0.03473 0.03473 0.03473 0.034709 0.034709 0.034709 0.034691 0.034691 0.034691 0.034691 0.034684 0.034695 0.0346857 0.034587 0.034587	TICACGCC CTGGCCAC CTGGCCAC CTGGCCAC CTGGCCAC GCGCACAC GCACTGA GCCGAA ACTCAGTG GAACTTAA CCCCAGGC TCCGCAA TCTTAAGT CGCAC TGTGGCCG CCCTGATT CGCAAAAGCGAA ACAGCGAC ACAGCGGCGTTGGCGCGCGCGCGCGCGCGCGCGCGCGCGC
963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 980 981 982 983 984 985 986 987 989 990 991 992 993 994 995	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.035018 0.035018 0.034942 0.034939 0.034893 0.034853 0.034853 0.034852 0.034739 0.034779 0.034776 0.034736 0.034736 0.034731 0.034701 0.034701 0.034701 0.034701 0.034701 0.034701 0.034701 0.034701 0.034701 0.034701 0.034701 0.034701 0.034691 0.034691 0.034691 0.034523 0.034523 0.034523 0.034523 0.034523	TTCACGCC CTGGCCAC CTGGCCAC CTGGCCAC CTGGCCAC GTCGGCAAA GCACTIGT TCGCTIGA GCCGA ACTCAGTG GAACTTAA CCCCAGGC TCCCGCAAA CCTGGCCG CCTGATT CGCAC GAGCGT GAGCGCG CCTGATT CGCAC CTGAGCC CTGATG GAGGCCT CTAATGGT ACCACGGA ACCAGGCAC CTGATGCCG ACCAGGC ACCAGGC ACCAGGC CTAATGGT ACCGCTGG ACGCTGG ACGCTGG ACGCTGG ACGCAGC CTGATGCAT CCTGAAAAA CCCGGGAC CCCGAGAC CCCGAGAC CCCGAGAC CCCGAGAC CCGCGGGAC CCGCGGGAC CCGCGGGAC CCGCGGGAC CCGCGGGAC CCGCGGGAC CCGCGGGAC CCGCGGGAC
963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.035018 0.035018 0.034942 0.034893 0.034893 0.034893 0.034842 0.034893 0.034822 0.034799 0.034779 0.034736 0.034736 0.034736 0.034709 0.034709 0.034709 0.034709 0.034709 0.034709 0.034684 0.034691 0.034691 0.034691 0.034691 0.034691 0.034691 0.034691 0.034691 0.034695 0.034695 0.034695 0.034695 0.034695 0.034695 0.034695 0.034695 0.034695 0.034695 0.034695 0.034695 0.034513 0.034513 0.034485	TICACGCC CTGGCCAC CTGGCCAC CTGGCCAC CTGGCCAC CTGGCCAC GCGAAAA GCACTIGT TCGCTIGA GCCGA ACTCAGTG GAACTTAA CCCCAGAC TCCCGCAA TCTTAAGT CGCAC TGTGGCCG CCTGATT CGCAAAG ACAGGGA CGGGCGT GGCGTCGG ACAGGCCT CTAATGGT ACCGCTGG ACCGCTGG ACCGCTGG CGCTGGT GGCCGC CTGATT TGTGGCCG CTGATT CGCAAAAA CTTGGCCG CCTGATT CGCAAAAG CGCGTCGG CGCTCGG CGCGCGC CTGATGT CCCAGGC CTGAAAAA CCCGGGC CTGAAAAA
963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 980 981 982 983 984 985 987 988 989 991 992 993 994 995 996 997	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.035018 0.035018 0.034942 0.034893 0.034893 0.034893 0.034853 0.034822 0.034799 0.034774 0.034736 0.034736 0.034737 0.034709 0.034709 0.034709 0.034709 0.034709 0.034709 0.034709 0.034709 0.034709 0.034709 0.034709 0.034709 0.034709 0.034709 0.034709 0.034709 0.034709 0.034509 0.034509 0.034509 0.034509 0.034557 0.034523 0.034523 0.034454	TICACGCC CTGGCCAC CTGGCCAC CTGGCCAC CTGGCCAC GTCGGCAAA GCACTIGA GCCGA ACTCAGTG GCACTTAAGT CCCGCAA TCTTAAGT CCCAGAC TGTGGCCG CCTGATT CGCAAAAG CAGGCGT GAGGCCT GAGGCCT GAGGCCT GAGGCCT GAGGCCT GAGGCCT CTAATGGT ACCGCTGG ACCACGCC CTGATT GCCAAAAG CAGGCCT CTAATGGT ACCGCTGG GGCAC CTGATGCCC CTAATGGT ACCGCTGG CAGGCC CTAATGGT ACCGCTGG CAGGCC CTAATGGT ACCGCTGG CACCAGC CAGGC CAGGCC CACGAGC CACGAGC CCGGAGAC CCGGGAGT CCGGTAAAAA CCGCGGG
963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995	8mer 8mer 8mer 8mer 8mer 8mer 8mer 8mer	0.035018 0.035018 0.034942 0.034893 0.034893 0.034893 0.034842 0.034893 0.034822 0.034799 0.034779 0.034736 0.034736 0.034736 0.034709 0.034709 0.034709 0.034709 0.034709 0.034709 0.034684 0.034691 0.034691 0.034691 0.034691 0.034691 0.034691 0.034691 0.034691 0.034695 0.034695 0.034695 0.034695 0.034695 0.034695 0.034695 0.034695 0.034695 0.034695 0.034695 0.034695 0.034513 0.034513 0.034485	TICACGCC CTGGCCAC CTGGCCAC CTGGCCAC CTGGCCAC CTGGCCAC GCGAAAA GCACTIGT TCGCTIGA GCCGA ACTCAGTG GAACTTAA CCCCAGAC TCCCGCAA TCTTAAGT CGCAC TGTGGCCG CCTGATT CGCAAAG ACAGGGA CGGGCGT GGCGTCGG ACAGGCCT CTAATGGT ACCGCTGG ACCGCTGG ACCGCTGG CGCTGGT GGCCGC CTGATT TGTGGCCG CTGATT CGCAAAAA CTTGGCCG CCTGATT CGCAAAAG CGCGTCGG CGCTCGG CGCGCGC CTGATGT CCCAGGC CTGAAAAA CCCGGGC CTGAAAAA

313	8mer	0.049887	CCTCCGTA
314	8mer	0.049846	GATCGCGC
315	8mer	0.049818	TTGGTGCT
316	8mer	0.049787	CGGAGGCG
317	8mer	0.049757	CGAGATCG
318	8mer	0.049721	TGAACCCG
319	8mer	0.049702	AATAGCCA
320	8mer	0.049633	AGCGGGGC
321	8mer	0.049554	GGTGAACC
322	8mer	0.049369	ATAAATGG
323	8mer	0.049266	CACTGCAC
324	8mer	0.049199	TGCCTGCG
325	8mer	0.049125	CAAGGAGT
326	8mer	0.049102	CATTGCCG
327	5mer	0.049087	CCGGG
328	8mer	0.048983	GCCAGAGT
329	8mer	0.0489	GGCGCCCA
330	8mer	0.048871	AGCCGCAT
331	8mer	0.048848	CTCACGGG
332	8mer	0.048843	CTTCCCTA
333	6mer	0.048775	CCCGGG
334	8mer	0.048756	GATCGTCG
335	8mer	0.048723	GGCTATTG
336	6mer	0.048722	CCGGTC
337	8mer	0.04869	GGGACTGA
338	8mer	0.048651	TGAACACG
339	8mer	0.048619	GGGCGGGG
340	8mer	0.048591	ACTGTGGG
341	8mer	0.048586	GACCCGCA
342	8mer	0.048551	AGACCTGG
343	8mer	0.048515	GACTCGCG
344	8mer	0.048481	CGCCGCCG
345	8mer	0.048465	CGGGAGCG
346	8mer	0.048459	CGCCCGGC
347	8mer	0.048409	GGCGCGGC
348	8mer	0.048382	ATCGTCGT
349	8mer	0.048319	GTTGTACG
350	6mer	0.048125	CCCGCA

663	8mer	0.04024	ACACGGGA
664	8mer	0.04022	AGCCGTTT
665	8mer	0.04021	TGCTCACG
666	8mer	0.04019	AGGAGGG
667	8mer	0.04019	GGAGCGCT
668	8mer	0.04017	CCAATGCC
669	8mer	0.04017	ATCGCGCC
670	6mer	0.04012	GCTCAC
671	8mer	0.04004	GGGTGTTT
672	8mer	0.04003	GCCACTGC
673	8mer	0.03999	GGGAGGCT
674	8mer	0.03999	TATTGAAG
675	6mer	0.03993	GCGTTC
676	8mer	0.03991	CGAACTCG
677	8mer	0.0399	CGCTAAAT
678	8mer	0.03987	TAATCGAG
679	8mer	0.03987	AACCCGAA
680	8mer	0.03985	CGCGAACG
681	8mer	0.03983	CTGTGGGG
682	8mer	0.03981	CCTCGCGG
683	8mer	0.03981	CGAGATGG
684	6mer	0.03977	GCGAGA
685	8mer	0.03976	GCCGGTCT
686	8mer	0.03963	CATGTAAT
687	8mer	0.0396	TCGCGTCC
688	8mer	0.03955	TCGATGAG
689	8mer	0.03955	GGAGCACT
690	8mer	0.03951	AACGCCTG
691	8mer	0.03949	CGGCGCTG
692	8mer	0.03941	GCGCCGAG
693	8mer	0.0394	CTCGAGAT
694	8mer	0.03938	CGAAATTA
695	8mer	0.03936	CAATGCCC
696	8mer	0.03936	TCGACCCG
697	5mer	0.03936	GGTCG
698	8mer	0.03927	TATACTCG
699	8mer	0.03922	GGCGCGTG
700	8mer	0.03921	GGTAGCGT