

T-COFFEE, Version_6.85 Tue Sep 9 14:03:25 WEST 2008

Cedric Notredame

CPU TIME:124 sec.

SCORE=10

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BAD AVG GOOD

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Homo_sapie : 7
Pan_troglo : 22
Bos_taurus : 22
Mus_muscul : 7
Gallus_gal : 6
Danio_reri : 6
Arabidopsi : 6
Oryza_sati : 6
Plasmodium : 6
Rattus_nor : 7
cons : 10


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Homo_sapie 1 ---A---A-----TCG---G---AA-----TAGGCA---GGC---T- 18
Pan_troglo 1 ---A---ATT---GAGTCTT---TCAA-----AAC---C---GA-----AATCT- 26
Bos_taurus 1 ---A---ATT---GAGTCTT---TCAA-----AAC---C---GA-----AATCT- 26
Mus_muscul 1 ---GA---GT-----GAG---GTGAG-----T---TCGGC---GCGCGCTG 26
Gallus_gal 1 ---G-----G-----CCG---G-----TGAGC-----G- 11
Danio_reri 1 GTGT---G-----CTGTGTCGG-----AATA---TCAGTTT---TTACTTT- 33
Arabidopsi 1 A-GA---TTTATTAATCGTCGTCGGAAAAAAT---CGATAA---TTCCGTT- 41
Oryza_sati 1 TTTTTTTTT---GCCCT---C-----TCT- 19
Plasmodium 1 ATGA---ATGAAGATGCTATGA---A---AAT---TTTGAA---TAAATGT- 36
Rattus_nor 1 ---A---CC-----TCG---GCCAT---T---TCCCA---GTCATCTG 26

cons 1 [color bars] 48
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Homo_sapie 19 ---TCC---GGCG-----G---GA---A-----GTGAG-----C- 35
Pan_troglo 27 ---T---C---GTA-----AGTA-----AGTA-----C- 36
Bos_taurus 27 ---T---C---GTA-----AGTA-----AGTA-----C- 36
Mus_muscul 27 GGTTC---GGTGGCTC---CGCCGACTAA-----CAGAG-----C- 56
Gallus_gal 12 ---C---GGAG-----CG---GA---G-----CAGAG-----CG 28
Danio_reri 34 ---TTGTGGAG-----GTTATTT---CGGTGTTT---TATAGAT- 63
Arabidopsi 42 ---AC-----AC-----CGGA-----G- 48
Oryza_sati 20 ---C---C---GGCG-----AC-----CGGCG-----C- 33
Plasmodium 37 ---T---CTGGTG-----AAA---AGAAAA---AGGGG---A---AGAC- 63
Rattus_nor 27 CCT---C---AGTTCCTC----- 38

cons 49 [color bars] 96
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Homo_sapie 36 --CAGGGCTTGG-----CGC-----GGC--GGCCG 56
Pan_troglo 37 --TTAGT--TTG-C--TTTCAT--ACA-----GGC--A--- 59
Bos_taurus 37 --TTAGT--TTG-C--TTTCAT--ACA-----GGC--A--- 59
Mus_muscul 57 --CCGAGGCCTTGGCCATTTAC-----CA-----GTC--ATCCG 87
Gallus_gal 29 GC--CCGGCCGT-----CAT-----GGC--GGC--- 47
Danio_reri 64 --TTGATGT--TTGCA-C--GACG--GCAAAACGT--TACGGTGTGA--- 99
Arabidopsi 49 --TGAGCAC--TCGTC--TTTGAA--GATGAA-----GGA--T--- 77
Oryza_sati 34 --TAGGGT--TT--C--CTCCATTCGGCGGG-----GC--G--- 59
Plasmodium 64 --CTGAATTCTTGT--ATTACT--GGAGTAT--TACAAA--A--- 97
Rattus_nor 39 --CAATCCTTG----- 47

cons 97  144


Homo_sapie 57 T--GGT-----CG-----CGGCGC--- 68
Pan_troglo 60 --CCAGC-----ACT-----C-----AA--GTG--- 73
Bos_taurus 60 --CCAGC-----ACT-----C-----AA--GTG--- 73
Mus_muscul 88 TCCAGGT-----TCTCGAGCCTC-----GCTTGTGGCG--- 117
Gallus_gal 48 --GGT-----AC-----CGCAGAACA 61
Danio_reri 100 --CTG-----TGTT--TT--- 108
Arabidopsi 78 --CAAGA-----TCT-----C-----GAA--TTG--- 92
Oryza_sati 60 --GAGGTGGGGCGCGCT-----C-----G--C--CGG--- 80
Plasmodium 98 --CAAAA-----TATT-----CATCCATAGAT--ATT--- 120
Rattus_nor 48 -----CTTGTGGAG--- 56

cons 145  192

Homo_sapie 69 -----G-----GGAAGTTTG----- 78
Pan_troglo 74 -----AAA-----AGAAACATC-----T--- 86
Bos_taurus 74 -----AAA-----AGAAACATC-----T--- 86
Mus_muscul 118 -----GGAAGCCCA----- 126
Gallus_gal 62 ACCTCCGGG-----AGCAGCTGC----- 79
Danio_reri 109 -----G-----AATA--GTCA-----A 118
Arabidopsi 93 -----G-----AGAAAAGTTC-----GATTAAT 109
Oryza_sati 81 -----AGATGGCGGGGTACGAGAGGGAGAAAGAGCGGCT----- 114
Plasmodium 121 -----G-----AGAAAGCTA----- 130
Rattus_nor 57 -----GGAAGCCCA----- 65

cons 193  240

Homo_sapie 79 ---GA-----TCCTGGTTCC-----GTCC--GCTGG 99
Pan_troglo 87 ---CT---T-ACAACCTCTT-----TCATTGTAGA-----GATGA 113
Bos_taurus 87 ---CT---T-ACAACCTCTT-----TCATTGTAGA-----GATGA 113
Mus_muscul 127 ---GA-----CCGGAGTA-----GAGACC--TGG- 145
Gallus_gal 80 ---GG-----CTGCATTC-----GGCCCGCGGC 99
Danio_reri 119 AAATGTTT--ATTTAACGGAGCATG--TCT-----GC 147
Arabidopsi 110 AA--GCCT--AGCT--ACAAAGCTCGGATTC-----GA 136
Oryza_sati 115 ---GCTCGA-----CCTGGCC-----GCTGA 132
Plasmodium 131 ---AGTTA--ATATTGAAAGAACAAT--TTT-----T 155
Rattus_nor 66 ---GA-----CAGAAGTA-----GAGACC--CGG- 84

cons 241  288

Homo_sapie	100	-----G--AGT-CTGCGT-----GC	111
Pan_troglo	114	-----GA--AAA--TGAGAGGGTTCAGTGGT TTTCCCACTTGC	146
Bos_taurus	114	-----GA--AAA--TGAGAGGGTTCAGTGGT TTTCCCACTTGC	146
Mus_muscul	146	TGACCCAGAAAAGG-CCATGT-----	165
Gallus_gal	100	GCCCTCAGCAAAGTGCTGCCT-----GC	122
Danio_reri	148	-----CT-----TTATT-T-----GT	157
Arabidopsi	137	---C---GA-----AGATTCT-----GC	148
Oryza_sati	133	---CTCCGG-----	139
Plasmodium	156	-----	157
Rattus_nor	85	AGCCCCAGAAAAGA-CCACGT-----	104

cons 289  336

Homo_sapie	112	GAGG-----	115
Pan_troglo	147	AAAATA---A---TAATAGAGC---ATCT	166
Bos_taurus	147	AAAATA---A---TAATAGAGC---ATCT	166
Mus_muscul	166	-----	165
Gallus_gal	123	GCGCAG---CCGGCC-T---GC	137
Danio_reri	158	G---TGTTTG-----T---GT---TTGT-----T	172
Arabidopsi	149	GAAAGAA---A---T---G-----C	158
Oryza_sati	140	---T---TCGAGCGC---ACCTCGCCGCCGACTGCCTCG	170
Plasmodium	158	T---AC---C---T---GA-----C	165
Rattus_nor	105	-----	104

cons 337  384

Homo_sapie	116	-----TGAGTGCCGC--GCGCGT-----	131
Pan_troglo	167	-----T-----TTA-GC-AACACCAG	180
Bos_taurus	167	-----T-----TTA-GC-AACACCAG	180
Mus_muscul	166	-----CAGG-CGGCCGAGGCTC-----	181
Gallus_gal	138	GTGAGTACCGCCGGGGCCGG-----	156
Danio_reri	173	-----T-----GTG-GG-----G	179
Arabidopsi	159	-----T-----T-----G	161
Oryza_sati	171	ACAGGATCGTCCGCC-----CTACGGTAAACCGCCG	201
Plasmodium	166	-----T-----TTA-GA-----G	172
Rattus_nor	105	-----TAGG-CGGCCGAGGCTT-----	120

cons 385  432

Homo_sapie	132	-----AAC-----TACGAGTCG-GTCCGCA	150
Pan_troglo	181	GTAAT---GAA---T-----	189
Bos_taurus	181	GTAAT---GAA---T-----	189
Mus_muscul	182	-----GAG---TCTCAC-TG--TCCACA	198
Gallus_gal	157	-----GGG---TGGGAGCGGAAGCCCGC-	175
Danio_reri	180	TTGAT---TGAA-----T-----	189
Arabidopsi	162	G---ATCGATTTCGTC---GA---T-----	176
Oryza_sati	202	C---TC-----GACCTCGTTCCCCTCT	221
Plasmodium	173	AAAAAC-A---ATTAGAA-----T-----	187
Rattus_nor	121	-----GAG-----TCTCAC-TG--TCCACA	137


cons 433  480


Homo_sapie	151	---	TTGAGC	-	T	-----	-----	-----	A	158		
Pan_troglo	190	---	TG	---	TTC	-----	-----	-----	AG	196		
Bos_taurus	190	---	TG	---	TTC	-----	-----	-----	AG	196		
Mus_muscul	199	CTTT	CCTTAA	-----	-----	-----	-----	-----	G	209		
Gallus_gal	176	---	GAGA	-	G	-----	-----	-----	-----	180		
Danio_reri	190	---	GG	---	CAA	---	ACATACG	---	GACTTT	---	GAG	210
Arabidopsi	177	---	CT	---	TTA	CGGTACCA	AAAATTC	AAATCAAG	GATTTT	---	AG	210
Oryza_sati	222	---	CC	---	TC	-----	-----	-----	T	-----	AG	228
Plasmodium	188	---	GT	---	TTA	-----	AAATTCG	-----	ATTAA	---	GAG	206
Rattus_nor	138	TATT	CCTTAAGGTCT	-----	-----	-----	-----	-----	-----	-----	AG	154
cons	481									528		


Homo_sapie	159	G	---	CCCTGCTC	---	TGGCGGCC	---	CGGCC	CGGAG	-	C	TGGAG	GCC	GC	196				
Pan_troglo	197	CA	---	CCTT	---	T	-----	-----	-----	-----	-----	-----	-----	GC	205				
Bos_taurus	197	CA	---	CCTT	---	T	-----	-----	-----	-----	-----	-----	-----	GC	205				
Mus_muscul	210	G	---	CCTTGAT	---	TGTC	CATACG	---	CG	---	AGAAATTAG	---	---	C	238				
Gallus_gal	181	G	---	CCGAG	---	CC	---	C	---	CG	---	CGAAG	---	C	---	TGACG	---	C	203
Danio_reri	211	GAT	---	---	---	T	-----	-----	-----	-----	-----	-----	-----	T	215				
Arabidopsi	211	AAAC	---	CTA	---	T	-----	-----	-----	-----	-----	-----	-----	GC	220				
Oryza_sati	229	CCT	---	CCGC	---	T	-----	-----	-----	-----	-----	-----	-----	GC	239				
Plasmodium	207	GTT	---	---	---	T	-----	-----	-----	-----	-----	-----	-----	GA	212				
Rattus_nor	155	GA	---	CCTTGCTTAC	---	TGTCT	GTCACACG	---	CG	---	AGGAT	---	TAAT	---	C	191			
cons	529														576				


Homo_sapie	197	---	TCGGGTTCTTC	CGTTT	-----	-----	-----	---	CCT	---	GCACTGG	---	TTCGCCT	229
Pan_troglo	206	---	ACA	---	GTTTC	---	TAGCACGTG	-----	-----	-----	-----	-----	-----	222
Bos_taurus	206	---	ACA	---	GTTTC	---	TAGCACGTG	-----	-----	-----	-----	-----	-----	222
Mus_muscul	239	---	TCATCTGCTTC	---	C	---	CGTAGTTT	---	GTGTAGTGC	---	TGCAA	---	---	272
Gallus_gal	204	---	CCGGCTGCGTC	---	T	---	CTT	---	GCAAGGCC	---	TTCACCT	233		
Danio_reri	216	---	ATA	---	---	---	TGTG	---	---	---	---	---	---	222
Arabidopsi	221	---	TCT	---	---	---	CGTA	---	---	---	---	---	---	227
Oryza_sati	240	---	GACG	---	GTTTC	---	---	---	---	---	---	---	---	248
Plasmodium	213	---	ACA	---	---	---	TGTA	---	---	---	---	---	---	219
Rattus_nor	192	---	TCATCTGCGTC	---	T	---	CGTAGTTT	---	GTGTAATGC	---	TGCAA	---	---	225
cons	577													624


Homo_sapie	230	C	---	GGCC	---	C	-----	---	GCTGAGTCC	-----	-----	-----	-----	244				
Pan_troglo	223	---	A	---	TAT	---	TT	---	G	---	C	-----	-----	230				
Bos_taurus	223	---	A	---	TAT	---	TT	---	G	---	C	-----	-----	230				
Mus_muscul	273	---	C	---	---	---	---	---	GACCCC	-----	-----	-----	-----	279				
Gallus_gal	234	---	TCCGCAGGAC	---	---	---	---	---	GCACAGCCC	-----	-----	-----	-----	252				
Danio_reri	223	---	ATATA	---	---	---	ATTGTA	---	---	---	C	---	AAAAGAT	---	241			
Arabidopsi	228	---	A	---	---	---	TCGATT	---	G	---	CGGTAAT	---	---	---	TAGTG	247		
Oryza_sati	249	---	---	---	---	---	---	---	---	---	C	-----	-----	249				
Plasmodium	220	---	---	---	---	---	TTAAATA	---	TT	---	ATG	---	C	---	C	---	AACAGGTGGTGGGA	247
Rattus_nor	226	---	---	---	---	---	C	---	---	---	GACTCC	-----	-----	232				
cons	625													672				


Homo_sapie	245	-----TC-----T	247
Pan_troglo	231	-----TCA-----A-----TGAATATT-----CGT	245
Bos_taurus	231	-----TCA-----A-----TGAATATT-----CGT	245
Mus_muscul	280	-----TC-----GT	283
Gallus_gal	253	-----GG-----C	255
Danio_reri	242	-----GTCG-----AGTCT-----T-----CCT	254
Arabidopsi	248	TTTTTTT-----TTTTGTC-----TGTGTGTTTGTGTCT	275
Oryza_sati	250	-----TCTACCGATAATGCAGGAG-----	268
Plasmodium	248	AATCCTTAATTTATCA-----AGTAT-----T-----GCCT	273
Rattus_nor	233	-----TA-----AA	236
cons	673		720


Homo_sapie	248	-----AGTCTGG-----	254
Pan_troglo	246	T-----G-----AG-----TGAA-----	253
Bos_taurus	246	T-----G-----AG-----TGAA-----	253
Mus_muscul	284	-----A-----G-----	285
Gallus_gal	256	-----CGCCGGG-----	262
Danio_reri	255	CAAAACAACC-----TGAAGGA-----GCATCTGG-----AG-----CGACACAA	289
Arabidopsi	276	TAAAAGG-----TGATG-----ATGG-----TCGGG-----AT-----	298
Oryza_sati	269	-----GATTTCTCGGTAG-----T-----	282
Plasmodium	274	TTAAT-----TATTG-----AG-----G-----GTATAA	292
Rattus_nor	237	-----A-----G-----	238
cons	721		768


Homo_sapie	255	-----CCAA-----	258
Pan_troglo	254	-----C-----AA-----	256
Bos_taurus	254	-----C-----AA-----	256
Mus_muscul	286	-----C-----AA-----	288
Gallus_gal	263	-----CCC-----	266
Danio_reri	290	CAATGCTGTC-----CCAGAA-----C-----AA-----GCTGT	312
Arabidopsi	299	-----TT-----C-----ATCACTG-----T	309
Oryza_sati	283	-----TAATTGGGGTTTTGAGTTG-----	301
Plasmodium	293	GTAT-----TGTAATAAGTC-----C-----ATTAATTTCTTT	320
Rattus_nor	239	-----C-----AA-----	241
cons	769		816

Homo_sapie	259	-----T-----	258
Pan_troglo	257	-----T-----	257
Bos_taurus	257	-----T-----	257
Mus_muscul	289	-----T-----	289
Gallus_gal	267	-----	266
Danio_reri	313	-----C-----AC-----	315
Arabidopsi	310	TGAGTTATGTGGAGA-----T-----	325
Oryza_sati	302	-----GGGAT-----TGTTTTAGTTTTGGGATCCCTCGAAGGCT	335
Plasmodium	321	-----AATACAAGAC-----CAA-----	334
Rattus_nor	242	-----T-----	242
cons	817		864

Homo_sapie	259	-----CA--TC--CT--GAGAGGACAGCAGATACATAAA-----	286
Pan_troglo	258	-----GAA--TCTTGT-----	266
Bos_taurus	258	-----GAA--TCTTGT-----	266
Mus_muscul	290	-----GCA--TG--CTTTCGAGA-----CG	305
Gallus_gal	267	-----CGGC--G--CT--GCGCG-----ATAAG-----	283
Danio_reri	316	-----TGCT-----	319
Arabidopsi	326	-----GAT--T--TTCTTG-----	335
Oryza_sati	336	CGAAATGCTATGGA--TCTTCT-----	355
Plasmodium	335	-----TAA--TATCCTTA-----	345
Rattus_nor	243	-----ACC--TG--CTTTCGAGA-----CT	258
cons	865		912

Homo_sapie	287	-----TACGT-----TCCCAA-----	297
Pan_troglo	267	-----AAATATGAGCAAA-----	280
Bos_taurus	267	-----AAATATGAGCAAA-----	280
Mus_muscul	306	CCAGAAAGAGGTGGAGGTG-----	323
Gallus_gal	284	-----GACGT-----GAACAC-----	294
Danio_reri	320	-----CAAACCAAAGCCTGGGTG-AGAA-C-AT	344
Arabidopsi	336	-----C-----GG-----C-GT	341
Oryza_sati	356	-----	355
Plasmodium	346	-----AGAAATAAAAAA-TAGTAGCAGAAACTAT	374
Rattus_nor	259	CTAGAAGAGAGGTGAAAGTG-----	276
cons	913		960

Homo_sapie	298	---ATGGGGAAATAGAGG---CCCGG--GGCGGGGGCGAAC---	330
Pan_troglo	281	T-----G-----GTAT-----	286
Bos_taurus	281	T-----G-----GTAT-----	286
Mus_muscul	324	--CCCTGT-----TTTAAAT--CGGA--GA--AG-----CAGGA	349
Gallus_gal	295	TTTCGCTGG-----G-----CTCGG--GA--GG-----CG-----	314
Danio_reri	345	T-----A-----CTAA-----	350
Arabidopsi	342	TA-----G-----CTGA-----	348
Oryza_sati	356	-----	355
Plasmodium	375	T-----A-----ATAG-----	380
Rattus_nor	277	--CCCCGT-----TTTTAGC--CGGGAGA--GG-----CCGTA	303
cons	961		1008

Homo_sapie	331	-----TC--T--GCC--AAGG-----	340
Pan_troglo	287	-----TT--T--TTAT--TT--AAAAAA--ATTTTTTTTT	311
Bos_taurus	287	-----TT--T--TTAT--TT--AAAAAA--ATTTTTTTTT	311
Mus_muscul	350	GCTCAGACCTCGTT--T--GC--GA--AAGG-----	373
Gallus_gal	315	-----TC--G--CCAGGCC--C--AAGG-----	329
Danio_reri	351	-----ATATACTGAG--AT--AA--A-----	365
Arabidopsi	349	-----TT--T--TGAG--GAAGGAAGTGAAGGAA-----	370
Oryza_sati	356	-----T--T--TGA--CT--GAAAAA--A-----	369
Plasmodium	381	-----TTCT--TTAA--AT--AAAAAAGA--A-----	399
Rattus_nor	304	GCTCAGACCTCGTT--T--GC--GA--AAGG-----	327
cons	1009		1056

Homo_sapie	341	-----	-----	-----	-----	TCTC	344
Pan_troglo	312	GGCAGTGCTGGCTCTTCATTGCTGT	-----	-----	-----	GT GGG	341
Bos_taurus	312	GGCAGTGCTGGCTCTTCATTGCTGT	-----	-----	-----	GT GGG	341
Mus_muscul	374	-----	-----	-----	-----	GCGC	377
Gallus_gal	330	-----	-----	-----	-----	ATCTT	334
Danio_reri	366	-----	-----	T	ATCATATAACGTTAG	-----	381
Arabidopsi	371	-----	-----	TGGG	ATGATA	-----	386
Oryza_sati	370	-----	-----	-----	-----	-----	369
Plasmodium	400	-----	-----	A	ATGAAAGAATATTAG	-----	415
Rattus_nor	328	-----	-----	-----	-----	GCAT	331
cons	1057	-----	-----	-----	-----	-----	1104

Homo_sapie	345	CC	GGGGCGTCG	GAGGCCGAGCA	-----	TGGGC	371
Pan_troglo	342	-----	-----	-----	-----	TT	343
Bos_taurus	342	-----	-----	-----	-----	TT	343
Mus_muscul	378	GC	GGG-C-TTG	GATGCC	CAGATGAGGTTTGAATAGG	-----	410
Gallus_gal	335	CGTGT	GGGGCCGCC	GGGGCCCGTCCGGCGCTGCCCGGC	-----	-----	374
Danio_reri	382	-----	-----	-----	-----	GTAAC	388
Arabidopsi	387	-----	-----	-----	-----	CTATAGAGT	395
Oryza_sati	370	-----	-----	-----	-----	-----	369
Plasmodium	416	-----	-----	-----	-----	ATAT	419
Rattus_nor	332	GT	GAG-C-TTG	GATGCC	AGATAAGATCTGAAGAAG	-----	364
cons	1105	-----	-----	-----	-----	-----	1152

Homo_sapie	372	-----	-----	-----	-----	-----	371
Pan_troglo	344	-----	-----	TTTCTCTGGTTATGATG	TGCAT	-----	363
Bos_taurus	344	-----	-----	TTTCTCTGGTTATGATG	TGCAT	-----	363
Mus_muscul	411	-----	-----	-----	-----	-----	410
Gallus_gal	375	-----	-----	-----	-----	-----	374
Danio_reri	389	TACAGCATAA	-----	AAAT	A	-----	403
Arabidopsi	396	CTGAAGCTCAAGG	-----	AAATTT	-----	-----	414
Oryza_sati	370	-----	-----	-----	-----	TGCAA	386
Plasmodium	420	-----	-----	-----	-----	-----	419
Rattus_nor	365	-----	-----	-----	-----	-----	364
cons	1153	-----	-----	-----	-----	-----	1200


Homo_sapie	372	-----	-----	-----	-----	TAGG	379
Pan_troglo	364	-----	-----	-----	GGGGGCT	-----	370
Bos_taurus	364	-----	-----	-----	GGGGGCT	-----	370
Mus_muscul	411	-----	-----	-----	-----	ACCT	414
Gallus_gal	375	-----	-----	-----	-----	CCG	379
Danio_reri	404	-----	-----	-----	-----	GTCC	407
Arabidopsi	415	-----	-----	-----	-----	GGCT	418
Oryza_sati	387	ATTAGTTTGT	CAGGCTAATTCAGTAA	TTTTAAAT	TCCAGCT	-----	427
Plasmodium	420	-----	-----	-----	-----	-----	419
Rattus_nor	365	-----	-----	-----	-----	ACCT	368
cons	1201	-----	-----	-----	-----	-----	1248


Homo_sapie	380	GGC-ATGTTCT	-----	T	-----	T	-----	390
Pan_troglo	371	G-----CTC	-----	T	-----	CTAGTTG	-----	382
Bos_taurus	371	G-----CTC	-----	T	-----	CTAGTTG	-----	382
Mus_muscul	415	GCCCA-GCTC	-----	T	-----	G	-----	425
Gallus_gal	380	GGG-A-GCTC	-----	T	-----	GG	-----	390
Danio_reri	408	G-----AAATCAGAGTCT	-----	T	-----	G	-----	421
Arabidopsi	419	G-----AAAT	-----	GTTT	-----	G	-----	428
Oryza_sati	428	G-----CTC	-----	CCATCACTAT	-----	TCAGTAATTTTATGTTTT	-----	459
Plasmodium	420	-----	-----	TTT	-----	A	-----	423
Rattus_nor	369	ACCCA-GCTC	-----	C	-----	G	-----	379
cons	1249							1296


Homo_sapie	391	-----	-----	-----	-----	-----	-----	390
Pan_troglo	383	-----	CAGTACACGGGCTTCTCCT	-----	-----	-----	-----	401
Bos_taurus	383	-----	CAGTACACGGGCTTCTCCT	-----	-----	-----	-----	401
Mus_muscul	426	-----	-----	-----	-----	-----	-----	425
Gallus_gal	391	-----	-----	-----	-----	-----	-----	390
Danio_reri	422	-----	CAATAAAGTT	-----	ATCT	-----	CT	437
Arabidopsi	429	-----	A	TAAATCTACTAATC	CT	TAGTGATAACGGATT	CGATA	464
Oryza_sati	460	TTACCTTTAGA	-----	-----	-----	-----	-----	470
Plasmodium	424	-----	AA	-----	-----	-----	-----	425
Rattus_nor	380	-----	-----	-----	-----	-----	-----	379
cons	1297							1344


Homo_sapie	391	-----	-----	GCCCATGT	-----	-----	-----	398
Pan_troglo	402	TGTGGTGACTTCTCTTGTCGTGGTT	-----	-----	-----	-----	-----	426
Bos_taurus	402	TGTGGTGACTTCTCTTGTCGTGGTT	-----	-----	-----	-----	-----	426
Mus_muscul	426	-----	-----	-----	-----	-----	-----	425
Gallus_gal	391	-----	-----	GCCCAC	-----	-----	-----	396
Danio_reri	438	CT	-----	GTCTTGCTTTGTC	TAGCTGTCAATGT	CGTCT	-----	470
Arabidopsi	465	CT	-----	GAT	-----	GATGA	-----	475
Oryza_sati	471	-----	-----	GTAAAGGTCA	-----	-----	-----	480
Plasmodium	426	AA	-----	GTCAAGATTTGG	GAAATTTGAAGGT	-----	T	453
Rattus_nor	380	-----	-----	-----	-----	-----	-----	379
cons	1345							1392

Homo_sapie	399	-----	-----	-----	-----	ACTCCAGTGCCTA	-----	411
Pan_troglo	427	CCTGGGCTCT	AGAGTACAGAACCAGTAGTTGTGA	-----	-----	-----	-----	460
Bos_taurus	427	CCTGGGCTCT	AGAGTACAGAACCAGTAGTTGTGA	-----	-----	-----	-----	460
Mus_muscul	426	-----	-----	-----	-----	AAGCCTA	-----	432
Gallus_gal	397	-----	-----	-----	-----	CGCCGGGGC	A	406
Danio_reri	471	T	-----	TAAC	-----	GA	-----	477
Arabidopsi	476	G	-----	ATGA	-----	TGA	-----	483
Oryza_sati	481	-----	-----	-----	-----	-----	-----	480
Plasmodium	454	T	-----	TATATA	-----	TTA	-----	463
Rattus_nor	380	-----	-----	-----	-----	AAGCATA	-----	386
cons	1393							1440

Homo_sapie	412	ACATGATGCCCTGCAC-AGAGTA--ATCCC-----A-GCCCA-----	444
Pan_troglo	461	-----C-----A-GCCGA-----	467
Bos_taurus	461	-----C-----A-GCCGA-----	467
Mus_muscul	433	T-----CTCACTGCCCCAGGCTTC-CTCC-----A-GTC-----	460
Gallus_gal	407	C-----CGCCCGGCTC-AGTGTCCGTGTCCT-----T-GC-----	434
Danio_reri	478	-----C-----T-CACT-AA-TG-----	487
Arabidopsi	484	-----T-----T-CAAGA-----	490
Oryza_sati	481	-----CAAGACATCACTATATTT-----	498
Plasmodium	464	-----C-----A-CCAGAAACTG-----	475
Rattus_nor	387	T-----CTCCCTGCCCCAGGCT-C--TCCC-----A-GTC-----	412
cons	1441		1488

Homo_sapie	445	-----GAC--CTCTGGCACTACTACCTCCGTGTCC-----CTC-	475
Pan_troglo	468	-----G-----C-----	469
Bos_taurus	468	-----G-----C-----	469
Mus_muscul	461	-----CCT-CTT-AA-CTGTCA TAGGTTACC-----	483
Gallus_gal	435	-----CCTCGTCCGGCC-----CCGC--TGC-----CTAC	457
Danio_reri	488	AATT-----	491
Arabidopsi	491	-----G-----T-----	492
Oryza_sati	499	TTCATCC-----A-----	506
Plasmodium	476	CAACAAG-----T-----	483
Rattus_nor	413	-----CCT-CT-AA-CTGTCA TAGGTC ACT-----	434
cons	1489		1536

Homo_sapie	476	--C--TGA--G-GA-----ACAAC--GAAAACA-----CTTC	498
Pan_troglo	470	-----TGA-----GTT-----	475
Bos_taurus	470	-----TGA-----GTT-----	475
Mus_muscul	484	--GGTGA GGGTGA CTGAGA-----TGAACCTGCCATC	514
Gallus_gal	458	ACG--G--GCGAT-GAGTGGGACGACATGGA--TGA-----CTTC	490
Danio_reri	492	-----TTTGTCT--GTAACGTTAACGTT--	513
Arabidopsi	493	-----CGAAGTTC-AT-GTTA--TTGAGGAT--	514
Oryza_sati	507	-----TTGCATCGTTGCCACCTACTCAGGCT--	532
Plasmodium	484	-----GGATATTTTATAGATAT-----	500
Rattus_nor	435	--G-----TGTGATTGAGA-----TGAACCGGCCTTC	459
cons	1537		1584


Homo_sapie	499	GTACTTTTTCT--GTG-GCCTT-CCATAA-----	523
Pan_troglo	476	-----CCTC-----C	480
Bos_taurus	476	-----CCTC-----C	480
Mus_muscul	515	TTCC-----GGTGTG-CCTTTAAATACACAGCTCTCCTACCT--C	552
Gallus_gal	491	GACC-----T-GTCGGGCTT-CGAGAAGAAGTTCTC-----C	520
Danio_reri	514	-----TCTT-----C	518
Arabidopsi	515	-----TCTC-----C	519
Oryza_sati	533	-----TCTG-----C	537
Plasmodium	501	-----ATT-----A	504
Rattus_nor	460	CACC-----TG-----CCATCTGCC	475
cons	1585		1632


Homo_sapie	557	TAC	TGTGTGCCAT	G	TTCCTGGCAC	CCT	TGATCTT	---	AC	AA	---	594
Pan_troglo	524	TC	-----	CTG	-----	-----	-----	-----	C	AT	---	531
Bos_taurus	524	TC	-----	CTG	-----	-----	-----	-----	C	AT	---	531
Mus_muscul	593	AAG	-----	ATG	---	GAGG	---	AGAAGGAGAGAG	-----	-----	-----	614
Gallus_gal	573	TGC	TGTCAGTAAG	G	CTC	GG	GC	---	TGATGTGGGGCC	-----	-----	606
Danio_reri	605	TC	-----	CTT	-----	-----	-----	-----	CGAC	-----	-----	613
Arabidopsi	556	TT	-----	CTT	-----	-----	-----	-----	CTAG	TGAT	---	568
Oryza_sati	562	TT	-----	CTT	-----	-----	-----	-----	CCCT	-----	-----	570
Plasmodium	555	AC	-----	ATT	-----	-----	-----	-----	GTAT	-----	-----	563
Rattus_nor	512	AAG	-----	GTG	---	GAGC	---	AGGGGAGAG	-----	-----	-----	530
cons	1825											1872


Homo_sapie	595	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	594	
Pan_troglo	532	---	TAGTA	---	GG	---	---	TG	---	---	---	540	
Bos_taurus	532	---	TAGTA	---	GG	---	---	TG	---	---	---	540	
Mus_muscul	615	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	614	
Gallus_gal	607	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	606	
Danio_reri	614	-----	-----	-----	-----	-----	-----	-----	---	CCTTGT	---	619	
Arabidopsi	569	T	TGGAA	---	GA	---	---	TGTTGAGAC	G	CGT	---	TTT	592
Oryza_sati	571	---	CTAAT	GG	TTGTTATAAAAGAGAA	T	---	---	---	---	---	---	594
Plasmodium	564	---	AAGTA	---	CA	---	---	TGG	---	G	---	GTTCTGATTT	584
Rattus_nor	531	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	530	
cons	1873											1920	


Homo_sapie	595	-----	-----	-----	CT	-----	-----	GTAGC	-----	-----	-----	601
Pan_troglo	541	-----	-----	G	ACT	CTTTACCACTAAG	CCAGCAGGGAA	-----	-----	-----	-----	568
Bos_taurus	541	-----	-----	G	ACT	CTTTACCACTAAG	CCAGCAGGGAA	-----	-----	-----	-----	568
Mus_muscul	615	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	614
Gallus_gal	607	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	606
Danio_reri	620	-----	GCATATC	---	---	AAAT	---	TTACATGTAAA	-----	-----	-----	641
Arabidopsi	593	AAAGTT	---	CC	AAGGAGAT	---	---	C	---	---	AC	611
Oryza_sati	595	-----	-----	---	G	---	---	---	---	---	ACT	598
Plasmodium	585	---	TAGAAAATCA	TATAGAAAT	---	---	---	TTAAATA	---	---	---	610
Rattus_nor	531	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	530
cons	1921											1968

Homo_sapie	602	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	602	
Pan_troglo	569	GACCCA	---	AA	---	TCGGTGTTT	---	---	---	---	---	585	
Bos_taurus	569	GACCCA	---	AA	---	TCGGTGTTT	---	---	---	---	---	585	
Mus_muscul	615	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	614	
Gallus_gal	607	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	606	
Danio_reri	642	A	---	AT	---	GTACATG	---	TTATT	---	TTTAC	AGTGT	TCCTTGT	672
Arabidopsi	612	AAACAT	---	---	GTTCCAG	---	A	TC	---	T	A	TG	631
Oryza_sati	599	TTTCAG	AAATCGT	TTTCTTG	TAA	---	TC	---	T	---	---	---	624
Plasmodium	611	---	AG	---	ATTCTGG	---	ATATC	---	---	---	---	TGTCCTTAT	633
Rattus_nor	531	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	530	
cons	1969											2016	

Homo_sapie	660	-----CGAATTCTGGC-TCCTTC-----ACATTTAG--CT	686
Pan_troglo	636	---AACTATAGCTCTC-----CAG-TT---	653
Bos_taurus	636	---AACTATAGCTCTC-----CAG-TT---	653
Mus_muscul	665	-----TCAGCC-A-TCCAG-TGCT	680
Gallus_gal	653	-----GGC-TCCCTC-A-T-----C-	664
Danio_reri	717	---AACT-----	720
Arabidopsi	681	AAAACA-----C-----AAGCTT---	693
Oryza_sati	635	--AGGAGGAGACATT-----CAA-TC---	652
Plasmodium	692	GAAACT-----T-----AAA-TT---	703
Rattus_nor	589	-----TCTTGCCTCAGCCATCA--TCCAG-TGCT	614
cons	2209		2256

Homo_sapie	687	CTGTGTCTACT-----GC--ACGTTACTGA	709
Pan_troglo	654	-----CT-----G-----	656
Bos_taurus	654	-----CT-----G-----	656
Mus_muscul	681	-----GA-----GT--TGA	687
Gallus_gal	665	-T--GT--CT-----GGGCGATGC--TGG	681
Danio_reri	721	-----TTG-----	723
Arabidopsi	694	-----TTTGTGGCAA-----ACACTGG-----	712
Oryza_sati	653	-----CT-----G-----C	656
Plasmodium	704	-----TTTATATATTTAATAAAGA--TTG-----	725
Rattus_nor	615	-----GA-----GT--TGA	621
cons	2257		2304

Homo_sapie	710	A-ACACTAAGTG--TCT-----T--GG---	726
Pan_troglo	657	-----TTC-----	659
Bos_taurus	657	-----TTC-----	659
Mus_muscul	688	C-----	688
Gallus_gal	682	AGCCC-CCGCTGC--TGC-----TGTGC---	701
Danio_reri	724	-----	723
Arabidopsi	713	-----	712
Oryza_sati	657	TTTATTTTCATAGTCATCAGTAAACACAGCATAGCATTAGGTGCAATT	704
Plasmodium	726	-----	725
Rattus_nor	622	C-ACACCAGGTCGAATCAACATTTTATTAGCCTGACTACTCTTC---	664
cons	2305		2352

Homo_sapie	727	-----TTTTCG--TCTGTCATATGGGGGAA-ATGGTCT-----	756
Pan_troglo	660	-----TTTCCTTCAAGCTGTA-----CT---	677
Bos_taurus	660	-----TTTCCTTCAAGCTGTA-----CT---	677
Mus_muscul	689	-----GTCACA-CCGT-----CTCAGCCATCC	709
Gallus_gal	702	-----TTTCAG--ACAATGGGATGG--AA-G-AGGCT-----	727
Danio_reri	724	-----TG-----AT---	727
Arabidopsi	713	-----TG-----AG---	716
Oryza_sati	705	CAGTAA TTT-----TC-----AT---	717
Plasmodium	726	-----TG-----AT---	729
Rattus_nor	665	-----TGT--TTGAAAGTCATTTT--AAAT-TTTCCTTGG-ATAA	698
cons	2353		2400

Homo_sapie	757	-----	CTTCTACT	---	TCC	---	T	-----	768				
Pan_troglo	678	-----	C	-----	CAAAGTCC	---	TTCTAACAGACCTA	-----	700				
Bos_taurus	678	-----	C	-----	CAAAGTCC	---	TTCTAACAGACCTA	-----	700				
Mus_muscul	710	AGTG	---	CTGA	---	G	-----	-----	718				
Gallus_gal	728	-----	-----	CGCGCA	-----	-----	-----	-----	733				
Danio_reri	728	-----	ATTGATCTGCA	---	TGCG	TTTGTGTATGATTAG	-----	-----	758				
Arabidopsi	717	-----	AG	---	ATATACA	---	TA	---	TGT	---	AT	-----	732
Oryza_sati	718	-----	TT	---	CTAGCTGC	---	TGCTCCCAT	---	TA	-----	738		
Plasmodium	730	-----	AACAATATAAA	---	TA	---	ATAATAATATAAATAA	-----	758				
Rattus_nor	699	AATGGG	AATTTT	TTAG	GTTC	---	CCAA	-----	720				

cons 2401  2448

Homo_sapie	769	-----	-----	-----	-----	-----	-----	-----	768
Pan_troglo	701	-----	-----	-----	-----	-----	-----	-----	700
Bos_taurus	701	-----	-----	-----	-----	-----	-----	-----	700
Mus_muscul	719	-----	-----	-----	-----	-----	-----	-----	718
Gallus_gal	734	-----	-----	-----	-----	-----	-----	-----	733
Danio_reri	759	GTTTAGTTATTGTA	---	ATTAT	TTATGCATAA	TGTATAGAT	---	ATGGTC	803
Arabidopsi	733	GTATAATTATGTGTA	TAAA	-----	CAAAATAT	-----	---	ATGGTG	765
Oryza_sati	739	-----	-----	-----	-----	-----	-----	-----	738
Plasmodium	759	-----	-----	---	TAATA	ATAATATAC	---	ATAATAATA	781
Rattus_nor	721	-----	-----	-----	-----	-----	-----	-----	720

cons 2449  2496

Homo_sapie	769	-----	---	GGCGTTTTTTTT	TGTTAGGAT	-----	-----	-----	788		
Pan_troglo	701	-----	ATG	-----	---	ATG	---	TA	708		
Bos_taurus	701	-----	ATG	-----	---	ATG	---	TA	708		
Mus_muscul	719	-----	-----	-----	-----	-----	-----	-----	718		
Gallus_gal	734	-----	-----	---	GGTGAGGGT	-----	-----	-----	742		
Danio_reri	804	---	CAT	-----	-----	-----	-----	-----	806		
Arabidopsi	766	AGA	ACTGAGATTA	ATG	-----	---	GTA	---	TA	786	
Oryza_sati	739	-----	---	CTG	-----	---	TTT	---	TT	CACATCCAT	755
Plasmodium	782	---	ACAA	---	AT	---	ATG	---	AT	-----	795
Rattus_nor	721	-----	-----	-----	---	GATAGGGAAT	---	TA	732		

cons 2497  2544

Homo_sapie	789	-----	-----	-----	---	TA	-----	-----	790
Pan_troglo	709	-----	---	GAGCCCTCATTGTGCCCTTAG	CAGGTTCT	-----	-----	-----	737
Bos_taurus	709	-----	---	GAGCCCTCATTGTGCCCTTAG	CAGGTTCT	-----	-----	-----	737
Mus_muscul	719	-----	-----	-----	---	TT	-----	-----	720
Gallus_gal	743	-----	-----	-----	-----	-----	-----	-----	742
Danio_reri	807	-----	-----	-----	-----	-----	-----	-----	806
Arabidopsi	787	-----	---	CAAAGAAGACAGCTTTTTTTTAC	-----	-----	-----	-----	807
Oryza_sati	756	TGCATCGCTGCATCCTACA	GAGCC	---	TTCT	-----	-----	-----	783
Plasmodium	796	-----	---	CATAATAATAA	---	T	---	TGTA	811
Rattus_nor	733	-----	---	GTGCCAGTTTGTGTTGTTTT	-----	-----	-----	-----	751

cons 2545  2592

Homo_sapie	791	-----A-----AC-----GACTTAATATATGCAA--	809
Pan_troglo	738	AGGCACATTCTTTGTGC-----TT-----GACTTT-----	762
Bos_taurus	738	AGGCACATTCTTTGTGC-----TT-----GACTTT-----	762
Mus_muscul	721	-----GACG-TCACA-----CCGGC	734
Gallus_gal	743	-----G-----TGTGCAG-----	750
Danio_reri	807	-----A-----AG-----TGATG-----	814
Arabidopsi	808	-----A-----AA-----GACTTG-----	816
Oryza_sati	784	-GCCAC-----CACTGAATCAAATC-----CACTTT-----	808
Plasmodium	812	-----A-----AG-----TACTTA-----	820
Rattus_nor	752	-----GTCTCTTGTAGTCCAGGC	769

cons 2593  2640

Homo_sapie	810	--TAA-----TA--A-ATGCTT-----CGA-----	824
Pan_troglo	763	-----AAA--G	766
Bos_taurus	763	-----AAA--G	766
Mus_muscul	735	TTGAG-----TCA-ACATT--TTGTT-AGCCCTGACTGCTATTCTG	770
Gallus_gal	751	--GAGTACTGGAATA--C-TTGCTTGTTGAGA-----AAATTG	783
Danio_reri	815	-----AAATTTG	820
Arabidopsi	817	-----ACCTTT	822
Oryza_sati	809	-----CTT--C	812
Plasmodium	821	-----ATATTG	826
Rattus_nor	770	TGGGC-----TCAAAC-TT-GTGG-AGC-TGAGGGTGATTTTG	803

cons 2641 2688

Homo_sapie	825	-----AG-----ACTACCCTG--TTACA-TA--	841
Pan_troglo	767	TTACCATTGA-----CTTT-----CA-TGTCA	787
Bos_taurus	767	TTACCATTGA-----CTTT-----CA-TGTCA	787
Mus_muscul	771	TTTG-GATGTCACTTTAA-CTT-----TGC-TTGGATGA-----	801
Gallus_gal	784	T-----AGGCTCATACAATCTT--TAA-----	803
Danio_reri	821	TAAC-AATGA-----GTT-----CA-C--A	833
Arabidopsi	823	--C-ATTGG-GTT-----GGTGCCTAT-----	841
Oryza_sati	813	TTCCC-----TCT-----	820
Plasmodium	827	TTAG-AACCT-CATT-----CAAC--A	844
Rattus_nor	804	TACT-CTTAT-CTTTTCAGCCTC--AGCCTC--TCA-----	833

cons 2689 2736

Homo_sapie	842	GTACACAGT--A--AG-----G-	854
Pan_troglo	788	GT-----A--AAGCCTGC-----AGATGTCCAGG	809
Bos_taurus	788	GT-----A--AAGCCTGC-----AGATGTCCAGG	809
Mus_muscul	802	-----AGTGG-----GATTTTTAGG	816
Gallus_gal	804	-----AGT--TGGAATA-----GA	815
Danio_reri	834	GT-----A-----AAAAAAT-----AAATG--AAGT	853
Arabidopsi	842	GA-----A-----C-A-----AGTTAAA-AG	855
Oryza_sati	821	-----G-----ATGGTTGTTATATAAAAAAATGACATTTTC-AGA	852
Plasmodium	845	GA-----C-----C-A-----AATTTAAAAT	859
Rattus_nor	834	-----AGTGTT-----AA-----GAGTTACAGA	851

cons 2737 2784

Homo_sapie	855	GTTCTGTT-ATCATT	---	CCCAGAG	----	AAG	-----	879
Pan_troglo	810	-----	-----	-----	-----	GCCCTTGCCCC	-----	820
Bos_taurus	810	-----	-----	-----	-----	GCCCTTGCCCC	-----	820
Mus_muscul	817	-----	TT-CCCAA-GATA	AGGGATTT	AGTACCAGTT	TGTTTG	-----	850
Gallus_gal	816	CTTCTCAT	CACCAAGT	---	CCGATCC	---	CAG	-----
Danio_reri	854	-----	-----	-----	-----	G	-----	854
Arabidopsi	856	-----	-----	-----	-----	AG-ATTTATTG	-----	865
Oryza_sati	853	-----	-----	-----	-----	AT-----C	-----	855
Plasmodium	860	-----	-----	-----	-----	AT-ATT-ATTA	-----	868
Rattus_nor	852	CCCATGTC	-ACCAACCT-	---	TTTATTTAAA	-A-	TGTATAT-A---	887
cons	2785							2832

Homo_sapie	880	-----	CGGA	-----	TGA	-----	886	
Pan_troglo	821	T- TT- C- AC- T- TGT- CTTT- CAGATTT	CAGC	845				
Bos_taurus	821	T- TT- C- AC- T- TGT- CTTT- CAGATTT	CAGC	845				
Mus_muscul	851	-----	TTTTGGA-TC- T- TGT-	863				
Gallus_gal	842	-----	CTCA	TGC	848			
Danio_reri	855	T- TT- CCAAACGAAT	GGTAACGTTAAATACAAATTC-	GC	891			
Arabidopsi	866	TGGGTT- CC- TTTTGT- T- CTGCTTTG-	A	890				
Oryza_sati	856	A- TT- C- TC- T- TGT- AATC- CA- TTTGTGC	878					
Plasmodium	869	T- TT- A- TA- GTGATTT- AATTAAAGATGA-	GA	895				
Rattus_nor	888	---	TTCTGAA- AC- G- TGT-	ACCTTTA-	A	908		
cons	2833							2880

Homo_sapie	887	-----	-----	-----	-----	AAT-T	890	
Pan_troglo	846	AGAGC- T- G- G- A- AG- TTTT-	860					
Bos_taurus	846	AGAGC- T- G- G- A- AG- TTTT-	860					
Mus_muscul	864	-----	AGTCCCG-	TCT	873			
Gallus_gal	849	CCGCT-	AACTGT-	859				
Danio_reri	892	ATGCAAATCATA- TTTTG- ATTTCTATGCC-	AGTA-	923				
Arabidopsi	891	AGGACTATTCCAT- G- GAGG- ATT-C- AG- TTTC-	918					
Oryza_sati	879	GAAAGGA- A- GAGAT- AT- TTT-	896					
Plasmodium	896	AAAAAAAT- AGTGTGTGTG- ATAT- TATAAA- TGAA-	927					
Rattus_nor	909	AAGAGAAT-	AGCACGGAATTTCT	931				
cons	2881							2928

Homo_sapie	891	GTCC- C- C- A- TTTTA- GACATGGAGAATCTGA- A-	919					
Pan_troglo	861	TAATT- C- T- TTTCC- C- C-	874					
Bos_taurus	861	TAATT- C- T- TTTCC- C- C-	874					
Mus_muscul	874	GG- CC- TCA-	880					
Gallus_gal	860	GTGG- TTA CCTAACCTG- AAT- GC- A-	881					
Danio_reri	924	CAT- CTACA- A- TTTTA- T-	939					
Arabidopsi	919	AA- C- A- A- TTTCA- G- GC-	932					
Oryza_sati	897	AA- TC- CTGCTTTA- TTTCA- G- AAT	917					
Plasmodium	928	AAA- CG- AAATA- A-	939					
Rattus_nor	932	GTGTA- TCC- CTGG- C- TGC- C-	948					
cons	2929							2976

Homo_sapie	920	----	GCACAAAGAGGT	TGCTCTCT	----	GTACAGA	945	
Pan_troglo	875	----	AT	AAAACT	T	TTATC	888	
Bos_taurus	875	----	AT	AAAACT	T	TTATC	888	
Mus_muscul	881	----		AACT	TG	T	887	
Gallus_gal	882	----	GCTCTCA	AGGT	GCATCC	TCAC	C 903	
Danio_reri	940	----	AT	CA	AG	T	GGCCTG 953	
Arabidopsi	933	----	GA	AAAC	CT	TC	T 949	
Oryza_sati	918	CATCA	GT	AAA	CGC	CA	IGACAGTCAATCGCGTT	GTCTG 955
Plasmodium	940	----	GG	AAAA	T	T	GGTATC 954	
Rattus_nor	949	----	GG	GGA	ACT	TGGA	CT 964	
cons	2977			*			3024	

Homo_sapie	946	AAGAG	-----	CATTTG	-----	GTGATTAAG	965										
Pan_troglo	889	A	GAG	-----	TCGCAATA	AGTAGT	CACATTTGC	GTCT	-----	T	920						
Bos_taurus	889	A	GAG	-----	TCGCAATA	AGTAGT	CACATTTGC	GTCT	-----	T	920						
Mus_muscul	888	A	GAG	-----		C	TGA	GGGTGACTT	-----		904						
Gallus_gal	904	A	GAG	-----		C			-----	TGAG	912						
Danio_reri	954	C	T	-----	GTGTTCA	-----	AAA	ACAA	-----	AAA	-----	AGAAA	-----	C	978		
Arabidopsi	950	A	T	-----	ATCA	-----	A	ACA	AGG	-----	AC	-----	CAT	GAAA	-----	C	972
Oryza_sati	956	G	T	-----		-----	ATT	ATATGTT	-----	T	-----	T	-----	T	970		
Plasmodium	955	A	TATATT	GTTTTAA	-----	A	AGAAAT	ACATGTG	ATGAAA	-----	T	989					
Rattus_nor	965	A	GAC	-----		-----	C	-----	A	GGTTGATC	-----	978					
cons	3025											3072					

Homo_sapie	966	TGCTAG	-----	AGATACAGG	-----	ATTGAACTAAG	AG	C	G	996		
Pan_troglo	921	TTCTCT	-----	T	C	-----	TTT	-----	G	CTT	935	
Bos_taurus	921	TTCTCT	-----	T	C	-----	TTT	-----	G	CTT	935	
Mus_muscul	905	---	TGG	-----	ACTCCATGAT	CTTTTCAGC	CTCAAC	CTCTCAAG	-----	T	941	
Gallus_gal	913	TGCAGG	-----	GGG	-----	GG	-----	A	TGTCCTCCT	-----	G	CTG 937
Danio_reri	979	AACTAC	-----	AGCAACA	-----	AAAAAG	-----	GAG	GAAA	-----	1004	
Arabidopsi	973	TCC	-----	G	AGTTACG	-----	AA	-----	GAG	-----	988	
Oryza_sati	971	TA	TTAGCC	AGTTACA	-----		-----	TAG	CAT	-----	991	
Plasmodium	990	TTCTAA	-----	A	-----	TA	-----	TTTAA	-----	GAG	AAA 1009	
Rattus_nor	979	---	TCA	-----	AACT	CAGGTT	CGA	-----	CTGCCTCTGC	CTCCTGAG	-----	T 1013
cons	3073									*	3120	

Homo_sapie	997	-----	CCTGA	T	-----	TTTA	AAGTA	TCTCCC	ACG	-----	A	1021		
Pan_troglo	936	-----	CT	G	C	TTT	C	CC	CCTCTC	-----	TGGA	G 956		
Bos_taurus	936	-----	CT	G	C	TTT	C	CC	CCTCTC	-----	TGGA	G 956		
Mus_muscul	942	-----	GCTTG	AGT	T	A	CAG	-----	A	CC	957			
Gallus_gal	938	-----	GCTGC	CC	TTTT	-----	G	TCCCC	-----	TGGG	CA 960			
Danio_reri	1005	AAAGCT	-----	AG	CAA	-----	TTT	T	TT	T	TCTA	-----	TCGA	C 1031
Arabidopsi	989	-----	TTGCAGG	C	ATT	GGATG	A	TCTT	GAATTTG	-----	C	1017		
Oryza_sati	992	TTAGGT	ACAA	TTACATT	C	TTG	CAAAT	T	TATA	-----	TTTAG	CAA 1031		
Plasmodium	1010	AA	GGT	-----	ATACAAG	C	TTT	A	AG	-----	T	T	-----	T 1032
Rattus_nor	1014	-----	GCTGG	GAT	T	A	AAG	-----		-----	G	CA 1029		
cons	3121				*							3168		

