

Cedric Notredame

CPU TIME:81 sec.

SCORE=17

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BAD **AVG** **GOOD**

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Human	:	24
Chimpanzee	:	11
Dog	:	12
Mouse	:	17
Cow	:	23
C.elegans	:	11
cons	:	17


Human	1	----	GG	C	----	CGCG	----	GC	G	----	GCGGAG	----	GCAGCAGCGGC	----	27	
Chimpanzee	1	----	ATG	C	----	GCG	----	CC	A	----	GTA	----	-----	TAGGC	----	18
Dog	1	----	ATG	CAC	AGCG	GGTGA	GC	CG	GG	GCG	TTC	----	GCACCGGAGCC	CCG	40	
Mouse	1	----	AGG	C	----	GGCG	----	GC	C	----	GCG	----	GCGGCTGAGGC	----	25	
Cow	1	----	GG	C	----	GGTG	----	GC	G	----	GCG	----	GCGGCGGCGGT	----	24	
C.elegans	1	AGAAA	AGGT	----	AATG	----	AC	G	----	GAGTACAA	GC	----	TGTGGT	----	34	
cons	1		*		*		*		*		*		*		48	

Human	28	GGCGGCA	----	GT	----	-----	GGCGGCGG	----	CG	----	-----	-----	-----	-----	46
Chimpanzee	19	CGA	----	C	----	-----	CCCGAGGG	----	TGGCGG	----	GG	-----	-----	-----	38
Dog	41	GGCACCGC	GTCC	CGAAACCTCC	CAGACC	GGGAGCCG	GGC	CGGAGG	CCG	-----	-----	-----	-----	88	
Mouse	26	GGCAGCGC	----	TGT	----	-----	GGCGGCGG	----	CTGAGAC	CGG	-----	-----	-----	53	
Cow	25	-----	-----	-----	-----	-----	GGCGGTGG	----	-----	-----	-----	-----	-----	32	
C.elegans	35	AGT	----	T	----	-----	GGAGATGG	----	AGGAGTTGG	-----	-----	-----	-----	55	
cons	49						*							96	


Human	47	-----	AAGGTGG	----	CGG	----	CGGCT	----	CGG	----	CCAG	----	TACTCC	----	74
Chimpanzee	39	-----	-----	-----	T	----	GCT	----	CTTC	CG	CAG	----	CT	TCTCTG	58
Dog	89	CGGCC	CAGCGCCG	TCCCCG	----	CGCCTACC	CGG	----	CCGG	CC	TGCTCC	----	-----	-----	130
Mouse	54	CAGGGG	AAGGCGG	----	CGG	----	CGGCT	----	CGG	----	CCCG	----	GAGTCC	----	87
Cow	33	-----	-----	-----	-----	CGGTT	----	CGG	----	CCAG	----	TACTCC	----	50	
C.elegans	56	TAAATCAGCAC	----	TCACC	AT	TCAACT	----	CAT	----	CCAG	----	AA	TCACTT	94	
cons	97					*		*	*	*		*	*	144	


Human	75	----	CG	----	G	----	CCCC	----	-----	-----	-----	-----	-----	-----	81
Chimpanzee	59	TG	G	AGACC	GTG	----	AGC	G	GGGCGG	CGGGG	CCG	CTCGTGG	-----	-----	95
Dog	131	----	CG	----	GGGCCGCCA	TC	CCCC	----	-----	-----	-----	-----	-----	146	
Mouse	88	----	CG	----	C	----	TCCC	----	-----	-----	-----	-----	-----	94	
Cow	51	----	CG	----	G	----	CCCC	----	-----	-----	-----	-----	-----	57	
C.elegans	95	TGTCGA	AAGAA	TACG	----	-----	A	CCCC	----	-----	-----	-----	ACCATAG	120	
cons	145		*				*							192	

Human	82	-----C-----	82
Chimpanzee	96	AG-----TGGCCGCTCGCGGCGT---C	114
Dog	147	-----GCAGC	151
Mouse	95	-----GC-----	96
Cow	58	-----C-----	58
C.elegans	121	AGGACAGCTACAGAAAGCAGGTGAGAAAATCATTGGGAACATCCGCTAC	168
cons	193		240

Human	83	--GCCATTTT-----GGACT--GG--GAGCG-----	102
Chimpanzee	115	TCC-----	117
Dog	152	CCGCCGCTGCTCTCCTGTGA-AGCTCGAGCGGCCGCGGGCCTGGGGCT	198
Mouse	97	--GCCATTTT-----GGACC--CG--GAGC-----	115
Cow	59	--GCCATTTT-----TGACT--GG--GAGCG-----	78
C.elegans	169	ACACAT-----GTGGTGG--GAGC-----	185
cons	241		288

Human	103	-----	102
Chimpanzee	118	-----	117
Dog	199	CCCCCGGGACAGGAGGGCCCGGGCCTCGCCCCGGAGCAGCAGCTGG	246
Mouse	116	-----	115
Cow	79	-----	78
C.elegans	186	-----	185
cons	289	-----	336

Human	103	-----AG--CGCGGC	110
Chimpanzee	118	-----	117
Dog	247	TGGCCGCGGGCGCTCCGCAGATGTTAGTCCGGTGCAGCGAGGCGCGGC	294
Mouse	116	-----GAG--CGCGGC	124
Cow	79	-----AG--CGCGGC	86
C.elegans	186	-----AAA--T--TGA	192
cons	337		384

Human	111	GCA-----	113
Chimpanzee	118	-----	117
Dog	295	GGGGCTCTGGCCTGCCCGGCACGCTGTTGCATTCCGCTGTGGCAGGA	342
Mouse	125	GCG-----	127
Cow	87	GCA-----	89
C.elegans	193	ACG-----	195
cons	385		432

Human	114	-----	113
Chimpanzee	118	-----	117
Dog	343	CCTGTTTTTGGGGGAGGGGCGGTAATCTCAGCCTGCAGGGCCTCGGG	390
Mouse	128	-----	127
Cow	90	-----	89
C.elegans	196	-----	195
cons	433	-----	480

Human 114 ----- 113
Chimpanzee 118 ----- 117
Dog 391 GTCCCTCCAGTGCACGCTTTTTGCCTACCCAGCAATTTTAAATTGGG 438
Mouse 128 ----- 127
Cow 90 ----- 89
C.elegans 196 ----- 195

cons 481 ----- 528

Human 114 ----- GGC ACTGA ----- 121
Chimpanzee 118 ----- CTGG ----- 121
Dog 439 TGGGTGGTTGG GAG - ATGT TTTCAGCTGTCAGCTCTCCCTGTTCTTTG 485
Mouse 128 ----- GGC - CTGA ----- 134
Cow 90 ----- GGC ACTGA ----- 97
C.elegans 196 ----- AA - AATGA ----- 202

cons 529 ----- ** ----- 576

Human 122 ----- A ----- GCGGC ----- 128
Chimpanzee 122 ----- T ----- GGCATC ----- 128
Dog 486 GCAGCCATGAGCGCGGGGG AGGTGCCTACCCCCCCCCC GCCGCCCC 533
Mouse 135 ----- A ----- GCGGC ----- 141
Cow 98 ----- A ----- GGCAGC ----- 104
C.elegans 203 ----- T ----- GGCATT ----- 209

cons 577 ----- * * ----- 624

Human 129 ----- GG ----- CGG - G - GCCAGAGGCT ----- 144
Chimpanzee 129 ----- CG ----- CAC ----- AGCTTTT ----- 140
Dog 534 CCCCCTGG ----- AGG - T - GCCACAGGTG ----- 556
Mouse 142 ----- GG ----- CGG - GAGCCTGAGGCG ----- 158
Cow 105 ----- GG ----- CGG - GGGCCAGAGGCT ----- 121
C.elegans 210 ----- TGA AATTGAACAAAAAAA CGAT GAGTCAGAAGTT TGGAAGT 250

cons 625 ----- * ----- 672

Human 145 ----- CAGCGGCTCCC ----- AGGTG ----- 160
Chimpanzee 141 ----- TTTT TTTCTTTTGG ----- 154
Dog 557 ----- GCGCGCTGCG ----- CCCGGTT ----- 573
Mouse 159 ----- CGGCGGCTCCG ----- CGGCG ----- 174
Cow 122 ----- CGGCGGCTCCC ----- AGGTG ----- 137
C.elegans 251 TTTTGA AAC C ----- ACAT CGAGCTGTTTAAATTGATTCCAA 286

cons 673 ----- 720


Human 161 ----- CGGGAGA ----- GAGGTACGGAGCGGACCACCCCT 190
Chimpanzee 155 ----- TATT ----- TTGGTAGAGACAGGGCTTTACCA 181
Dog 574 ----- CC - CTGGTTGT - GTGGGGCCTGGGGACCG - GG 602
Mouse 175 ----- CG - GAGA ----- GAGGTAGGGCGCGGGCGGGCG - CT 202
Cow 138 ----- AGGGAGA ----- GAGGTACAGAGCGGACCACCCCT 167
C.elegans 287 AGACGAATAAATCGTG CTGAAA ----- 308

cons 721 ----- 768

Human	191	C-CTGGGCCCC-----CTGCC-----C-----	205
Chimpanzee	182	TGTGG-GCCA-----	190
Dog	603	T-CGGGGCCGGGGTGGTCTGCCCCACGGGGCTGGCTCAG-----	640
Mouse	203	C-CTGGGCCCG-----CTGCC-----C-----	217
Cow	168	C-GCG-GCTC-----CTGCC-----G-----	181
C.elegans	309	-----CA-----CGAAAAATTC	320

cons	769		816
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Human	206	-----GGGT-----CCCGACC	216
Chimpanzee	191	-----	190
Dog	641	-----G-GCTGAGAGCAGCTTCCTCAGCAGGTGGGACAGGAGA	677
Mouse	218	-----G-GT-----GCGGAG-	226
Cow	182	-----GGGT-----CCCGACC	192
C.elegans	321	CGAAATTTTCGAAA-----AAAAACC	341

cons	817		864
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Human	217	-CTCTTTGCCGGCCGGGGCGGGGCC-----GGCGGCAG-TGA	253
Chimpanzee	191	-----GGCTGGT-CTGA	202
Dog	678	CCTCGTTGGCGTC-CTGTGCTGCGTC-----C-CG-TG-A-GG-	710
Mouse	227	-CTC---GGCGCGGCCGGGGCGGGGCC-----G-CGGCG-C-TG-	257
Cow	193	-CTCCTCGCCGGCACCGGGCGGGGCC-----GGCGGCAG-TGA	229
C.elegans	342	-AATTTTTCGTGTTTTGGACACGACATTATAAAATGGCTGGA-ACTGA	387

cons	865		912
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Human	254	ATGA--ATTAGGGGTCCCCGGAGGGGCGGGTGGGGGGCGCGGGCGCG	298
Chimpanzee	203	A-----	203
Dog	711	--AGCCA-----	715
Mouse	258	--A--A-----	259
Cow	230	ATGA--ATTAGGGGTCCCTGGAGGGGCGGGAAAGGGGGCGCGGGTGCG	274
C.elegans	388	AA-----AAAAT-----GGCTCGA-----	401

cons	913		960
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Human	299	GGGTCGGGGCGGGCTG-----GGTGAGAGGGG-T-----	326
Chimpanzee	204	-----	203
Dog	716	-----	715
Mouse	260	-----	259
Cow	275	GGGCCTGGGGCGGGCGGGCCCGCCGGGC-GGACGGGGCGGTTGGCGGGGG	321
C.elegans	402	-----A	402

cons	961		1008
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Human	327	-----CTGCAGGGGGGAGGGCGCGCGGACGCC-----GC	354
Chimpanzee	204	-----	203
Dog	716	-----	715
Mouse	260	-----	259
Cow	322	GGCTGT-CTGCAGGGG-GAGAC-----GCA-----GC	346
C.elegans	403	TCATGATTTTT-----CATTGTCCCCGAAAA	429

cons	1009		1056
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Human	355	GGCGCGGGGAGTGAGGAATGG	----	GCG	----	GTGCGGGG	-----	386
Chimpanzee	204	-----	-----	-----	-----	-----	-----	203
Dog	716	-----	TGAC	----	G	----	GAGTATAAG	-----
Mouse	260	-----	TGAA	----	G	----	CCG	-----
Cow	347	GACGCGGGGAATGAGGAATGG	----	GCG	----	GTGCGGGG	-----	378
C.elegans	430	TTCTCACAAAAAA--	AATTG	GAAAA	CGAAAA	TTTAGTTT	TTGCAA	475

cons	1057							1104
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Human	387	-----	-----	-----	-----	-----	-----	386
Chimpanzee	204	-----	-----	-----	-----	-----	-----	203
Dog	730	-----	-----	-----	-----	-----	-----	729
Mouse	269	-----	-----	-----	-----	-----	-----	268
Cow	379	-----	-----	-----	-----	-----	-----	378
C.elegans	476	AAACCGAAAAAT	TCTGAAAA	CACTCCAAAA	ATCGATAT	TTTCTCAGACG		523

cons	1105							1152
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Human	387	-----	-----	-----	-----	-----	-----	386
Chimpanzee	204	-----	-----	-----	-----	-----	-----	203
Dog	730	-----	-----	-----	-----	-----	-----	729
Mouse	269	-----	-----	-----	-----	-----	-----	268
Cow	379	-----	-----	-----	-----	-----	-----	378
C.elegans	524	AATTTCAATAATTACATTCCGTTTTACGTTTTATACAAAAACAGAAA						571

cons	1153							1200
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Human	387	-----	-----	-----	-----	-----	-----	386
Chimpanzee	204	-----	-----	-----	-----	CTCCTGACTGCAAGTGAC	-----	221
Dog	730	-----	-----	-----	-----	-----	-----	729
Mouse	269	-----	-----	-----	-----	-----	-----	268
Cow	379	-----	-----	-----	-----	-----	-----	378
C.elegans	572	TTTCACTTTTTTTTTTGAGAAAGGGCCAAAA						602

cons	1201							1248
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Human	387	-----	-----	-----	-----	-----	C	-----
Chimpanzee	222	CC	-----	-----	-----	-----	-----	223
Dog	730	-----	-----	-----	-----	-----	-----	729
Mouse	269	-----	-----	-----	-----	-----	-----	268
Cow	379	-----	-----	-----	-----	-----	C	-----
C.elegans	603	-CTTTTTTTTAGATTTTTTGTTTTTTTAAAGCAAATCG					ATAAAACCAGC	649

cons	1249							1296
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Human	388	-----	-----	-----	-----	TGAGGAGGGTGAGGC	----	TGGAGGC	409
Chimpanzee	224	-----	ACCCAGCT	CAGCATC	-----	-----	-----	-----	238
Dog	730	-----	-----	-----	-----	-----	C	TGGTGGT	737
Mouse	269	-----	-----	-----	-----	-----	C	TCGGGGC	276
Cow	380	-----	-----	-----	-----	TGAGGAGGGTGAGGC	----	TGGAGGC	401
C.elegans	650	ATGCCTGCTCGTGT	----	CGTG	TGAGGAGTATAAAATTT	TTT	TTTAAAC		691

cons	1297							1344
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Human	472	-----	GGCTGGAGGCTTCTGGG	488
Chimpanzee	279	CCAGTATCATTTTTTTAAACATCATTGATATG	GTTTGGGA	316
Dog	852	-----	TGTGG	856
Mouse	352	-----	GGCGG	356
Cow	464	-----	GGCTGGAGGCGGCCGGG	480
C.elegans	909	-----	-----	908

cons	1633			1680
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Human	489	GAGAAA	-----	CTC	GGGCC	-----	502			
Chimpanzee	317	-----	-----	-----	-----	-----	316			
Dog	857	GCAT	GTCTGCTG	TGGGC	-----	TC	CGCAGGAGGGGCGGCC	890		
Mouse	357	GCCCTC	-----	CGCGC	-----	TCGCC	CG	G	CCTCC	380
Cow	481	GAGAAA	-----	CTCGC	GGGCC	-----	-----	496		
C.elegans	909	-----	-----	-----	-----	-----	-----	908		

cons	1681							1728
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Human	503	-----	GGGCCGGG	510			
Chimpanzee	317	-----	-----	316			
Dog	891	CCTGCTCGTGGGAC	CCTGGGG	-----	GTGGCACCTGG	GGACCT	927
Mouse	381	GCGCCCGG	CCTCTGC	TGCACCCGGCA	TCCGCGCCTGG	-----	417
Cow	497	-----	-----	GGGCGGGC	-----	-----	504
C.elegans	909	-----	-----	-----	-----	-----	908

cons	1729							1776
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Human	511	-----	T	511
Chimpanzee	317	-----	TGTTTGTCCCTGGCAAATCTCATGTTAAAATG	348
Dog	928	AGGAGGGGCTGGTGG	CT	944
Mouse	418	-----	C	418
Cow	505	-----	C	505
C.elegans	909	-----	G	909

cons	1777							1824
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Human	512	-----	G	-----	CCCC	-----	516
Chimpanzee	349	TGATTCACAG	TGTTG	-----	GAAGT	-----	368
Dog	945	-----	GGGTGG	-----	CCCC	-----	954
Mouse	419	-----	G	-----	CCCC	-----	423
Cow	506	-----	G	-----	CCCC	-----	510
C.elegans	910	TGATCAGTACA	TGAGG	-----	ACAGG	CGAAGGATTTCTGTTGGTTTTTC	952

cons	1825							1872
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Human	517	-----	-----	516
Chimpanzee	369	-----	-----	368
Dog	955	-----	-----	954
Mouse	424	-----	-----	423
Cow	511	-----	-----	510
C.elegans	953	GCCGTCAACGAGGCTAAATCTTTTCGAGAATGTCGCTAACTACCGCGAG	-----	1000

cons	1873							1920
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Human	517	-----		-----	516
Chimpanzee	369	-----	AGGG	-----	372
Dog	955	-----		-----	954
Mouse	424	-----		-----	423
Cow	511	-----		-----	510
C.elegans	1001	CAGATTCGG	AGGG	TAAAGGATTCAGATGATGTGAGTTTTTTTTTGTGA	1048

cons	1921				1968
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Human	517	-----			T		CGGAGC	523
Chimpanzee	373	-----	CCT	GGTG			G	380
Dog	955	-----			GTC		CTCG	961
Mouse	424	-----			GCG	CCCGG	CTCA	435
Cow	511	-----			T		CTGGGC	517
C.elegans	1049	AATTATCAGT	CAAT	GGTT	GAATATTTGTATTTCT	T	CTAG	1087

cons	1969							2016
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Human	524	GGTGGGGTGC	GGTGG	GAGGTT				543
Chimpanzee	381			GAGGTG		AT		388
Dog	962			GAGGTG				967
Mouse	436					ACTTG		440
Cow	518	GGTCGGGTGC	GGTAG	GAGGTT				537
C.elegans	1088			GTT	CCT	AT	GGTCTTGGTAGGGAATAAATGTG	1118

cons	2017						*	2064
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Human	544	-----		-----	543
Chimpanzee	389	-----		-----	388
Dog	968	-----		-----	967
Mouse	441	-----		-----	440
Cow	538	-----		-----	537
C.elegans	1119	ATTTGTCATCTCGATCAGTCGACTTCCGAACAGTCAGTGAGACAGCAA			1166

cons	2065				2112
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Human	544	-----		-----	543
Chimpanzee	389	-----		-----	388
Dog	968	-----		-----	967
Mouse	441	-----		-----	440
Cow	538	-----		-----	537
C.elegans	1167	AGGGTTACGGTATTCCGAATGTCGACACATCTGCCAAAACGCGTATGG			1214

cons	2113				2160
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Human	544	-----		-----	543		
Chimpanzee	389	-----	TGCAT	-----	393		
Dog	968	-----			TGGG	GCTGGGCGTTCTGAAGC	988
Mouse	441	-----			TCGG		444
Cow	538	-----					537
C.elegans	1215	GAGTTGATGA	AGCAT	TTTACACACTTG	TTAG	AGAAATTCGCAAGGTAA	1262

cons	2161							2208
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Human	544	-----	ACTCC	CG	-----	CG	-----	552
Chimpanzee	394	-----			-----	TAT	-----	396
Dog	989	ACTGGCCTGCCGCAGGACTCC	TATCG	GAAGCAAGTGGT	CATCGACG			1034
Mouse	445	-----	GCGCG	CGG	-----	GCTGTGCG	-----	460
Cow	538	-----	ACTCC	CG	-----	CG	-----	546
C.elegans	1263	TTTTTTAGTTAAAAATTTAAATTTAAAAATAATGTTTT	TAATGTACAAT					1310
cons	2209							2256

Human	553	--	GCGCCC	CGGCCT	CCCCTCCC	CC	-----	574
Chimpanzee	397	GGAGGC		AGATCCC	TC		-----	411
Dog	1035	GGGAGA		CG	TGCC	TGCT	-----	1050
Mouse	461	GGGACG		CCGCTTCC	CC		-----	476
Cow	547	GCGCTC	CGGCCT	CCCCTCCC	CC		-----	568
C.elegans	1311	TAAGGTAC		AAATTCAG	TC	ATTATTATATGAAAAATTGAAA		1349
cons	2257							2304

Human	575	-----				TC	-----	576
Chimpanzee	412	-----				TTGAA	TGGCTTAACACCATCCC	433
Dog	1051	-----				G	GAC	1054
Mouse	477	-----				TGGCC		481
Cow	569	-----				TCGCC		573
C.elegans	1350	GACGCGAGATTTTGATATTTTCGCGC	CC					1376
cons	2305							2352

Human	577	-----				T	-----	577
Chimpanzee	434	CT						435
Dog	1055	-----			ATCC	TGGACACAGCGGGCCAGGAGGAGTACAG		1086
Mouse	482	-----			GGGC			485
Cow	574	-----			GTCC			577
C.elegans	1377	AAAAATACGACACCCG						1392
cons	2353							2400

Human	578	-----	CCC	CGC	TCCC	CGCACCT	CTTGCC	TCCTT	605	
Chimpanzee	436	-----							435	
Dog	1087	CGCCA	TG		C	GGGACCAGTACATGCGCAC	GG		1115	
Mouse	486	-----	TG		C	GGG		GCCCCG	498	
Cow	578	TTCCCTCA	CCC	TCCTCT	CCGC	TCCC	CGCACCT	CTT	CCTCCCTT	619
C.elegans	1393	-----							1392	
cons	2401							2448		

Human	606	TC	CAGC	ACTCGGCTGCCT		CGGTCCAGC	CTTC	CCCTG	640
Chimpanzee	436	-----							435
Dog	1116	GGGAGG	GCTT	T				CTCTG	1131
Mouse	499	GGGAGG		T				CGCG	510
Cow	620	CCTAGT		ACTGGGCTGCC	CGGTTGCTG	C		CTTCTCTG	655
C.elegans	1393	-----							1392
cons	2449							2496	

Human 641 CTGCATTTGGCATCTCTAGGACGAAGGTATAAACTTCTCCCTCGAGCG 688
 Chimpanzee 436 ----- 435
 Dog 1132 -TGTATTTGCCATCAACAA----- 1149
 Mouse 511 ----- 511
 Cow 656 CTGCATCTCTCATCTCTGGGACGAAGGTATAAACTTCTCCCA--AGCG 700
 C.elegans 1393 ----- 1392



Human 689 CAGGCTGGACGGATAGTGGTCCTTT-TCCGTGTGTAGGG--GATGTGT 733
 Chimpanzee 436 ----- 435
 Dog 1150 ----- 1149
 Mouse 512 ----- 511
 Cow 701 CAGACTGGACGGCTTGTGGTCCTTTTCAGTGTGTAGGGGGGATAGAT 748
 C.elegans 1393 --GTCTGTTTCGATTTGCTCCTTCAAATATTATGGTAACTTTATACTGT 1438



Human 734 GAGTAAGAGGGGAGGTCACGTTTTTGGAGAGCATAGGAAAGTGCTT-- 779
 Chimpanzee 436 TGGTTATAAATGAGTCTCA-----CTCAA 460
 Dog 1150 -----CACCAAGTCCTT-- 1161
 Mouse 512 -----GGGAGGTGCTC-- 522
 Cow 749 GAGTAAGAGGCGAGGTCGCGTTTTTGGAGGCGCAGGGGAAAGTGCAT-- 794
 C.elegans 1439 CG----- 1440



Human 780 ----- 779
 Chimpanzee 461 TTC-ACAGGAGATG-----TGGTTGTT-TCA- 484
 Dog 1162 ----- 1161
 Mouse 523 ----- 522
 Cow 795 ----- 794
 C.elegans 1441 -TTACAGCGGAATTTTCATCAATTTTTTTAAGTTTTCGATATTATAAA 1487



Human 780 -----A 780
 Chimpanzee 485 ----- 484
 Dog 1162 -----T 1162
 Mouse 523 -----G 523
 Cow 795 -----A 795
 C.elegans 1488 AATATTTAAAAACACAGCAGTTTTTAATAAATCGGTGAAAATTACCCCA 1535



Human 781 GAG-A-----C CACTGTTTG-----AGG 797
 Chimpanzee 485 ----- 484
 Dog 1163 GAGGACATCCACCA---GTACAGGTGAGCCTCCGGCCGGCCCTCAGA 1206
 Mouse 524 GAC-C-----CG--GT--GG---CC--GG-----AGG 540
 Cow 796 GAG-A-----C CACTGATGG-----AGG 812
 C.elegans 1536 GAA-A-----C GAAATATTA-----AAG 1552



Human	798	T	-----	TATTGT	-----	804	
Chimpanzee	485		-----		-----	486	
Dog	1207	GCCACCTGTTCTCTGCCTCT		CATCGC	-----	1233	
Mouse	541	G	-----	CGTCGT	-----	547	
Cow	813	T	-----	TATTGT	-----	819	
C.elegans	1553	T	-----	TACTGT	ATTCTTTAAAGGCGC	ACATAC	1580
cons	2785					2832	

Human	805	GTTT	-----		-----	808		
Chimpanzee	487		-----	GTGTGCAG	-----	499		
Dog	1234	GTTT	-----		-----	1237		
Mouse	548	GGTT	-----		-----	551		
Cow	820	GTTT	-----		-----	823		
C.elegans	1581	GTTT	GCATTTAACACAAATTCATC	GTGTGCAG	ACCGGG	CACCG	CATCT	1628
cons	2833					2880		

Human	809	-----	-----	-----	-----	808	
Chimpanzee	500	-----	-----	-----	-----	499	
Dog	1238	-----	-----	-----	-----	1237	
Mouse	552	-----	-----	-----	-----	551	
Cow	824	-----	-----	-----	-----	823	
C.elegans	1629	TTAATTTGAAAATCGCCAAATGTTGCATTTGAGTAATACAAAAACGTT					1676
cons	2881					2928	

Human	809	-----	-----	GG	A	-----	AA	-----	A	AA	-----	ATG	819	
Chimpanzee	500	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	499	
Dog	1238	-----	C	-----	TC	-----	TGTC	AGGGTC	TC	-----	GGATGC	AGC	1261	
Mouse	552	-----	C	-----	TC	-----	GG	A	-----	GG	-----	GGAA	AGG	566
Cow	824	-----	-----	-----	-----	-----	GG	A	-----	AA	-----	AA	ATG	833
C.elegans	1677	GTTT	TTAAAAATTT	TC	TGTTTT	GT	A	-----	AA	GCTCTA	AA	-----	ATG	1714
cons	2929												2976	

Human	820	C	-----	ATC	-----	TG	-----	CCTCCG	AGTTCCTGAATG	C	-----	TC	C	847		
Chimpanzee	500	-----	-----	-----	-----	-----	-----	CACC	-----	CCCAA	-----	TC	C	511		
Dog	1262	C	-----	GTG	CCTG	-----	CAGC	C	-----	TAC	CGACTG	GC	-----	TC	C	1288
Mouse	567	C	-----	GTC	-----	CG	-----	CCGC	GG	AGTTCGCG	ACCG	C	-----	TC	C	594
Cow	834	C	-----	ATC	-----	TG	-----	CAGCCG	AGTTCCTG	ACGG	C	-----	TC	C	861	
C.elegans	1715	TTATTAT			TGTTAT	CAAC	-----	-----	-----	AG	TTCAA	GTTC		1744		
cons	2977					*	*						*	*	3024	

Human	848	C	-----	CTCC	-----	CCC	-----	A	-----	TGTATGG	G	-----	864	
Chimpanzee	512	C	-----	ATTCT	-----	CACC	-----	A	-----	TGTNNNN	N	-----	530	
Dog	1289	CAC	-----	CTTC	-----	CT	-----	TC	T	-----	TGTAGGG	AGCAGATCAAG	1318	
Mouse	595	C	-----	CTCC	-----	CCC	-----	ACGC	C	-----	TGTAAGG	G	-----	615
Cow	862	C	-----	CTCC	-----	CCCC	-----	CC	C	-----	CGTATGG	G	-----	883
C.elegans	1745	CA	-----	TTTT	-----	CACT	-----	AAAAACGAAAAA	TGTAAGT	T	-----	1775		
cons	3025	*		*		*						**		3072

Human 914 -----G---AAG----- 917
Chimpanzee 711 ----- 710
Dog 1384 CACCGT-G--GAGTCCCGGCAGGCGCAGGACCTCGCCCGCAGCTACG 1427
Mouse 667 -----G-G-CAG----- 671
Cow 933 -----GTGA AAG----- 939
C.elegans 1913 -----TCT---AAA----- 1918
cons 3361 [blue][blue][green] 3408

Human 918 -----AA-----CAGGTG-GCCAAC 931
Chimpanzee 711 ----- 710
Dog 1428 GCATCCCCTACATCGAGACGTCAGCC AAGACGCGC CAGGTGAGC CCGGC 1475
Mouse 672 -----AA-----CAGGTG-GCCAC 685
Cow 940 -----AA-----CAGGTG-GCCAAC 953
C.elegans 1919 -----AA-----AAATTTT GATGAC 1933
cons 3409 [green][green][yellow][blue][green] 3456

Human 932 AC----- 933
Chimpanzee 711 -----N-----NNNNNNN 718
Dog 1476 TC----- 1477
Mouse 686 GC----- 687
Cow 954 AC----- 955
C.elegans 1934 ACCCTAGATTGATATCCGAAAG ATTTAATAATGTTTTCTTTT---TAT 1978
cons 3457 [green][green][blue][green] 3504

Human 934 -----CCTACA-CGTAGAGCCTGTGACCTACAGTGAA----- 964
Chimpanzee 719 NNNNNNNN-----NNNNNNNNNNNNNNNNN 742
Dog 1478 -----CCCACCCCGC-----AGCTAGCTG 1496
Mouse 688 -----CCTGCG-CGG-----AA-AGCC 703
Cow 956 -----CCTGCAACGTAAGCCTG-GACTTC-GTGTA----- 984
C.elegans 1979 TTCAGCATC-----GTGAGCGT----- 1995
cons 3505 [green][yellow][green][yellow][green][yellow][green][blue] 3552

Human 965 -----AAG--GA---AAAAG--- 974
Chimpanzee 743 NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN-NNNNNNN-N-NNNNNNN 786
Dog 1497 GG-----GACCCGCCCCCGCCCCGCCCTGCCAGG---GA-G-CAG--- 1531
Mouse 704 GCGAGCGACC-----CGCACGG-----AAG---CAGAA-AAG--- 731
Cow 985 -----AAG--GA---AAAAG--- 994
C.elegans 1996 -----CACGACAATAATAAGCCACAAA-AGAAGAA--G-AAAGTGT 2031
cons 3553 [blue][blue][green][green][green][green][blue] 3600

Human 975 -----T---TAAT-----CC-----C--- 982
Chimpanzee 787 ----- 786
Dog 1532 -----TGCTTATT-----GCCCCCTCTCCCGCA 1555
Mouse 732 -----T---TAAT-----GC-----GGC--- 741
Cow 995 -----T---TAAT-----CC-----C--- 1002
C.elegans 2032 CAAAT---AATGTGATTCAGCGTCGGGAATTGCCCAATTTCGCCAAC 2075
cons 3601 [green][green][green][blue][green][blue] 3648

Human	983	-----A-----	-----	983	
Chimpanzee	787	-----	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNN	806	
Dog	1556	CACAGGGCA	-----	1564	
Mouse	742	-----	-----	741	
Cow	1003	-----A-----	-----	1003	
C.elegans	2076	TCATTTTCA	GTCGTGTCAACTCCACCC	AAATTATCCTTTCTCGTACTT	2123
cons	3649	-----	-----	3696	

Human	984	-----GATGG--TCTGTTTTG--CT-----	-----	999	
Chimpanzee	807	NNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNNTCAG	CCGCTCCCTG	853	
Dog	1565	-----GCCGG--TCT--GG--CT-----	-----	1576	
Mouse	742	-----AAG--TCTGAGTGG--CT-----	-----	755	
Cow	1004	-----GAAGG--TCTGTTTTG--CT-----	-----	1019	
C.elegans	2124	TTTTGGTACATTTT	CATTATTCATTTAT	CTGTTTTATCTGAAACTTGT	2171
cons	3697	-----	-----*	3744	

Human	1000	-----TGG--TCAAGTTA-----A---ACCCGAAGAAA-----	-----	1022	
Chimpanzee	854	-----	-----	853	
Dog	1577	-----CTGGCTTCCAGCTC	CGGG	ACCCTCTGGGACCCT	1608
Mouse	756	-----TTGTGTCGTGAAA-----	-----	ACACAGGGGGAACGA	783
Cow	1020	-----TTG--TCAAGTTA-----	-----	AAACACACACAGCAA	1045
C.elegans	2172	GATCGATCCTCTT	CCGCCTC	T-----ACATACTCTTCGAAT	2210
cons	3745	-----	-----	3792	

Human	1023	-A-CC-----CG-----C-AGAGCAGAAGCAAGG-----CT	-----	1045		
Chimpanzee	854	-----	-----T-----	854		
Dog	1609	-CCGG-----GACCCC	CGTG-----	ACCCAGCGGC	CCCTAGCGCT	1642
Mouse	784	-A-GG-----G-----	CGAGAGCCGAGGCAGGGGA	-----	CT	808
Cow	1046	-A-CC-----CG-----C-ACAGCAGAAGCAGGG-----CT	-----	1068		
C.elegans	2211	CA-CCTTTTTTTCT	CT-----	C-TAT	-----	2227
cons	3793	-----	-----	3840		

Human	1046	TTTTT-----C-----CTTGCT-----AGTTGAGTGT-----AGA	-----	1069			
Chimpanzee	855	-----	CGTAC-----GCC-----GGTCGG--AG--GAGGA	-----	875		
Dog	1643	G--TAAGTGT	C-----CCG	GACGGCAGGGCAGCGA	GGGAGGC	CGGGG	1683
Mouse	809	C--T-----C-----C--CCG-----	AGTGGAGCG	-----	CAGG	-----	828
Cow	1069	CTTT-----C-----CTTGCT-----	AGTTGAGTGT	-----	AAA	-----	1092
C.elegans	2228	-----	-----	-----	-----	-----	2227
cons	3841	-----	-----	-----	-----	-----	3888

Human	1070	--CA-----GCAA-----TA	-----	1077			
Chimpanzee	876	--ATCGAG--CGGG-----	-----	885			
Dog	1684	CCCA-----GGTTTTG	GGCTGACACAGCTCCAGGGAGAGGCAGAGG	TCC	1727		
Mouse	829	--CA-----GCTCG-----	-----	835			
Cow	1093	--CA-----GCAG-----	-----	TA	-----	1100	
C.elegans	2228	-----	-----	-----	-----	-----	2227
cons	3889	-----	-----	-----	-----	-----	3936

Human	1078	-----GCAAAAAT-----	1085
Chimpanzee	886	-----GATCGCATC-----	894
Dog	1728	CCAGAGAGAGCTGCCCTGA--G--CCAGGCCGAGTGGTGAC--C--	1765
Mouse	836	-----GCTCACA--G--C--GTCAAGTT--TGAATCGC--	860
Cow	1101	-----GTAAAAATTGAC--G--GTGAAGTT--TAATTTGC--	1129
C.elegans	2228	-----GCATC-----	2232

cons	3937		3984
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Human	1086	-----	1085
Chimpanzee	895	GATAGGTGTGCCCTATGCGGCCGCCCGG	922
Dog	1766	--CTGGG--GCCCT-----GG	1777
Mouse	861	--CTGCT--GCCCT-----CT	872
Cow	1130	--CTGTT--TTCCT-----TT	1141
C.elegans	2233	GATTGAACCTGTTCTCTCGTCTGCTCGTCATTATTTTTTCTCCTTTTT	2280

cons	3985		4032
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Human	1086	-----	1085
Chimpanzee	923	--C--C--CCG--AA--C--T--	931
Dog	1778	--CCCTGC--CC--GC--A--GAAAGCC--	1797
Mouse	873	--C--C--CC--TC--A--G--T--	881
Cow	1142	--C--C--CCCATGCCT--TC--T--G--TATTA	1161
C.elegans	2281	TTTC--T--TCATCCTTCATTCTAATTC--T--	2306

cons	4033		4080
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Human	1086	-----	1085
Chimpanzee	932	---CATCGGTGTGCTCGGAGCTCGATTTTCTAGGCGGCGGCCGCGG	975
Dog	1798	---CAT-----	1800
Mouse	882	---CCT-----	884
Cow	1162	CCCTTAT-----	1168
C.elegans	2307	---CATCTTTCGCTTAGCCCAAATCTCCATTCATTCATAGGTGTCAA	2350

cons	4081		4128
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Human	1086	-----	1085
Chimpanzee	976	CGGC GGAGGCAGCAGCGGCGGCGG CAGTGGCGGCGGCGA CCGGTGGCGG	1023
Dog	1801	--GGG-----	1803
Mouse	885	--GCG-----	887
Cow	1169	--GCG-----	1171
C.elegans	2351	AACTAGCTGTAGTGTGATCCATATCTAAAACATGCATCCGAACCC	2398

cons	4129		4176
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Human	1086	-----	1085
Chimpanzee	1024	CGGCTCG-----G-----	1031
Dog	1804	-----	1803
Mouse	888	-----	887
Cow	1172	-----	1171
C.elegans	2399	CTCCTCGTTCCAAAATTGGCCAACTCTACCAAAAAAACATCGCACCA	2446

cons	4177		4224
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Human 1086 ----- 1085
 Chimpanzee 1032 ----- C ----- CAG ----- 1035
 Dog 1804 ----- CCCGTGTAGGCCCTGCCCTCTTTAATGGG ----- C ----- 1833
 Mouse 888 ----- G-----T-----TTGTCCCTTG----- C----- 900
 Cow 1172 ----- TACAAATTGACCC----- 1185
 C.elegans 2447 TTTTTTTTTCACCTTCTCTGCATATTTTCAGAAATGTTTGTATTGCCTTT 2494

cons 4225 ----- 4272

Human 1086 ----- 1085
 Chimpanzee 1036 ----- TACTCCCG ----- GCC ----- 1046
 Dog 1834 ----- ----- TG ----- 1835
 Mouse 901 ----- ----- CC ----- 902
 Cow 1186 ----- ----- CC ----- 1187
 C.elegans 2495 TTTGATGCTTTATTCCCTTTCCTCGTTTTTCATACAAATTATTGGCCTC 2542

cons 4273 ----- 4320

Human 1086 ----- 1085
 Chimpanzee 1047 ----- C ----- 1047
 Dog 1836 TGGGGGACCAGG GTGGTAGGTCAGACAGGAGCGGGACCCCTG----- 1876
 Mouse 903 CTT----- CCAGACTCCAG-AGT----- TG----- 921
 Cow 1188 ATC----- CCAG----- G-AGT----- T----- 1199
 C.elegans 2543 AT----- CTATTT----- TCAG----- A-AGT----- TCTCTGAAA 2567

cons 4321 ----- 4368

Human 1086 ----- 1085
 Chimpanzee 1048 ----- 1047
 Dog 1877 G----- A-----T----- GTTAGAGCTGGGAGCCA 1896
 Mouse 922 A----- T-----T----- GT----- A----- 927
 Cow 1200 A----- T-----T----- AA----- A----- 1205
 C.elegans 2568 ATTAAATTCTTTTGCACTGCGCGTCTGTTCCGTTTATTTTT----- 2608

cons 4369 ----- 4416

Human 1086 ----- 1085
 Chimpanzee 1048 ----- 1047
 Dog 1897 GACCTCGGGGCTGTCCTGTGGGGGAGCTC----- CTGAGGGGCCA--A 1936
 Mouse 928 GCATTCGGGGCC----- GACCT----- CTGA----- A--A 949
 Cow 1206 GTACTC----- 1211
 C.elegans 2609 ----- TCTCTGTTTCCTCTC----- ATTTTTGTCA----- AGTA----- 2637

cons 4417 ----- 4464

Human 1086 ----- 1085
 Chimpanzee 1048 ----- 1047
 Dog 1937 GCCG----- CCTGATGGGGGGAGCCCTGGGGCTGCCTGTGTGGGG 1976
 Mouse 950 ----- T----- C----- 951
 Cow 1212 ----- 1211
 C.elegans 2638 ----- ATTATTTCTCTTT----- 2650

cons 4465 ----- 4512

Human	1105	-ACCTGTT-----C-----TTGTCC-----	1118
Chimpanzee	1058	-----	1057
Dog	2206	TGCCTGCT-----GTCC-----	2217
Mouse	1037	GGCATGCT-----GTGT-----	1048
Cow	1310	GGCATGTG-----CA-----GTGGTGC-----	1326
C.elegans	2805	TTTTTATTATTATTTTATTTTCAAGGAAAGTATTGCAATGATATAAATT	2852
cons	4801	-----	4848

Human	1119	TT-----	1120
Chimpanzee	1058	-----	1057
Dog	2218	TG-A-----	2220
Mouse	1049	T-T-----	1050
Cow	1327	AG-G-----T	1330
C.elegans	2853	TTAAAAAGCT	2862
cons	4849	-----	4858