

Pan_troglo	148	GGAGCTGGAGCGGAAGGTGTG	-GGA	ACTGGCGAGGCTGGTCTGGCAGT	194	
Gallus_gal	130	AGAGCTGGAGAGGAAGGTGTG	-TG	AGCTGGCAGACTTGA	TAAGGAGCT	176
Danio_reri	177	GGAGCTGAAGACTAAAGTGG	-G	ACTCTGGCCAGTGGAT	CAAGAGAGT	223
Rattus_nor	117	GGAGCTGGAAATGCAAGGTGTG	-GG	AGCTGGCGCGGCTGATGTGGCAGT	163	
Mus_muscul	105	GGAGCTGGAAAGCAAGGTGTG	-GG	AGCTGGCCCGGCTAATGTGGCAGT	151	
Drosophila	84	GGTGTGGC-CGAAAAGTGCC	AG	GGAATTGGCTGAATTGATCAAGAAAT	130	
Homo_sapie	144	GGAGCTGGAGCGGAAGGTGTG	-G	GAACTGGCGAGGCTGGTCTGGCAGT	190	

cons	193	* ** ** ***		**** *	*	240
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Pan_troglo	195	CTTCCA--ATGTGGTGTTCACACGGGTG	CCG	GCATCAGCACTGCCTC	240
Gallus_gal	177	CTTCCA--ATGTGGTGTTCACACGGGTG	CCG	GCATCAGCACCGCCTC	222
Danio_reri	224	CTC--AGTACATGGTGGTTCA	TT	CAGGAGCTGGAATCAGTACGTCTAC	269
Rattus_nor	164	CCTCCA--CTGTGGTTTTCCACACCGG	G	CGCAGGCATCAGCACCGCCTC	209
Mus_muscul	152	CCTCCA--GCGTGGTTTTCCACACCGG	G	CGCCGGCATCAGCACCGCCTC	197
Drosophila	131	CGGGAC--ACGTTGTCCTCCACACGGG	G	AGCTGGGATCAGTACGTCTGC	176
Homo_sapie	191	CTTCCA--GTGTGGTGTTCACACGGGTG	CC	GCATCAGCACTGCCTC	236

cons	241	* ** * * * * * * * * * * * *				288
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Pan_troglo	241	TGGCATTCCCGACTTCAGGGTCCCC	AC	GGAGTCTGGACCATGGAGGA	288
Gallus_gal	223	GGGGATTCCCTGACTTCAGGGG	GCCT	AATGGTGTCTGGACTATGGAAGA	270
Danio_reri	270	AGGCATACCCGACTTCAGAGGTCC	TA	TGGTGTGTGGACGATGGAAGA	317
Rattus_nor	210	CGGCATCCCCGACTTCAGGGGCC	CC	CATGGCGTGTGGACCATGGAGGA	257
Mus_muscul	198	TGGCATCCCCGACTTCAGAGGCC	CC	CATGGCGTGTGGACCATGGAGGA	245
Drosophila	177	AGGAATTCCGGATTTCCGCGG	ACCA	AGGGCGTTTGGACCTGGAGGA	224
Homo_sapie	237	TGGCATCCCCGACTTCAGGGTCCCC	AC	GGAGTCTGGACCATGGAGGA	284

cons	289	** ** * * * * * * * * * * * * * * * *				336
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Pan_troglo	289	GCGAGGTCTGGCCCCAAGTT	CG	ACACCACCTTTGAGAGCGCGCGGCC	336	
Gallus_gal	271	GAAGGGGCTTTCCCCAAATTT	G	ACACCACCTTTGAGAACGCCAGGCC	318	
Danio_reri	318	GAGAGGGGAGACTCCACACTTT	A	ACACCACGTTTGAGGACGCTCGACC	365	
Rattus_nor	258	ACGAGGCCTCGCCCCAAGTTT	G	ACATCACCTTTGAGAATGCCCGGCC	305	
Mus_muscul	246	ACGCGGCCTTGCCCCAAGTTT	G	ACACCACCTTCGAGAATGCTCGGCC	293	
Drosophila	225	GAAGGGCGAGAAGCCGACTT	CA	ATGTTTCCTTCGATGAAGCCA	AGACC	272
Homo_sapie	285	GCGAGGTCTGGCCCCAAGTT	CG	ACACCACCTTTGAGAGCGCGCGGCC	332	

cons	337	* * * * * * * * * * * * * * * *				384
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Pan_troglo	337	CACGCAGACCCATATGGCGCTGGTGC	AG	CTG--GAGCGCGTGGGCCT	381
Gallus_gal	319	CTCCAAGACTCACATGGCACTT	T	CTGGGGCTG--CAGAGAGTTGGCAT	363
Danio_reri	366	CAGCCTGACTCACATGGCTCTG	CT	GCGAGATG--CAGAGGACAGGACA	410
Rattus_nor	306	CTCGAAGACCCACATGGCCCTT	G	TTCAGCTG--GAACGCATGGGCTT	350
Mus_muscul	294	CTCGAAGACCCACATGGCCCTT	G	TTCAGCTA--GAACGCATGGGCTT	338
Drosophila	273	AACTAAAACCCACATGGGCTAT	CA	TAGCCCTGATTGAAAG--TGG-CTA	317
Homo_sapie	333	CACGCAGACCCACATGGCGCTGGTGC	AG	CTG--GAGCGCGTGGGCCT	377

cons	385	* * * * * * * * * * * * * * * *				432
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Pan_troglo	382	CCTCCGCTTCCTGGTCAGCCAGAACGTGGACGGGCTCCATGTGCGCTC	429
Gallus_gal	364	CCTGAAATTCCTGGTCAGCCAGAACGTGGATGGCCTTCATGTGCGCTC	411
Danio_reri	411	CCTCAAATACCTCATCAGCCAAAACGTGATGGCCTTCACGTACGCTC	458
Rattus_nor	351	CCTCAGCTTCCTGGTCAGCCAGAATGTAGACGGGCTACATGTGCGCTC	398
Mus_muscul	339	CCTCAGCTTCCTGGTCAGCCAGAACGTAGACGGGCTGCACGTGCGCTC	386
Drosophila	318	TGTGCAGTACGTAATCTCACAGAATATTGATGGTCTCCACTTGAAATC	365
Homo_sapie	378	CCTCCGCTTCCTGGTCAGCCAGAACGTGGACGGGCTCCATGTGCGCTC	425

cons	433	* * * * * * * * * * * * * * * *	480
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Pan_troglo	430	AGGCTTCCCCAGGGACAAACTGGCAGAGCTTCACGGGAACATGTTTGT	477
Gallus_gal	412	AGGATTCACACGGGACAAGTTGGCTGAGCTCCACGGGAACATGTTTGT	459
Danio_reri	459	TGGCTTCCCCAGGGATCGATGTGTCGGAGCTGCATGGGAACATGTTTGT	506
Rattus_nor	399	GGGCTTCCCCAGGGACAAGCTGGCCGAGCTGCACGGAAACATGTTTGT	446
Mus_muscul	387	GGGCTTCCCCAGGGACAAGCTGGCAGAGCTGCACGGAAACATGTTTGT	434
Drosophila	366	CGGACTGGATCGGAAGTATCTTTCCGAATTGCACGGCAAACATTTACAT	413
Homo_sapie	426	AGGCTTCCCCAGGGACAAACTGGCAGAGCTCCACGGGAACATGTTTGT	473

cons	481	** * ** * * * * * * * * * * * *	528
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Pan_troglo	478	GGAAGAATGTGCCAAGTGTAAAGAC - GCAGTACGTCCGGGACACAGTCC	524
Gallus_gal	460	GGAGGAGTGCATGAAATGTGGCAA - GCAGTACGTGCGGGATGCTGTTG	506
Danio_reri	507	TGAAGAATGTGAGAAAGTGTGGCAA - GCAATACGTTCCGGGACACGGTGG	553
Rattus_nor	447	AGAGGAGTGCCCCAAGTGTAAAGAC - GCAGTACGTGAGAGACACGGTCC	493
Mus_muscul	435	AGAGGAATGTCCCAAGTGTAAAGAC - GCAGTACGTGAGAGACACGGTTG	481
Drosophila	414	CGAACAGTGTAAAGAAATGCA - GACGGCAATTTGTGAGCCATCTGCCG	460
Homo_sapie	474	GGAAGAATGTGCCAAGTGTAAAGAC - GCAGTACGTCCGAGACACAGTCC	520


cons	529	** * ** ** * * * * * * * * * * *	576
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Pan_troglo	525	TGGGCACCATGGGCCTGAAGGCCACGGGCCGGCTCTGCACCGTGGCTA	572
Gallus_gal	507	TGGGCAGCATGGGGTTGAAAGCCAACGGGCAGGCTGTGCAGCGTCACCA	554
Danio_reri	554	TCGGAGTGATGGGACTGAAGCCGACTGGAAGATACTGCGACGTCATGC	601
Rattus_nor	494	TGGGTACCATGGGCCTCAAGGCCACTGGCCGGCTCTGCACCGTGGCCA	541
Mus_muscul	482	TGGGCACCATGGGCCTCAAGGCCACAGGCCGGCTCTGCACCGTGGCCA	529
Drosophila	461	TGGAAACAGTGGGTCAAAAATCC - CTG - - - - - CAACGTG - - - -	493
Homo_sapie	521	TGGGCACCATGGGCCTGAAGGCCACGGGCCGGCTCTGCACCGTGGCTA	568

cons	577	* * * * * * * * * * * * * * * *	624
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Pan_troglo	573	AGGCAAGGGGGCTGCGAGCCTGCAGGGGAGAGCTGAGG - - - - -	610
Gallus_gal	555	AAGCACGAGGGCTACGGGCCTGCAGAGGGAAGCTAAGA - - - - -	592
Danio_reri	602	GCTCCAGAGGACTACGATCCTGCAGAGGGAAGCTGATC - - - - -	639
Rattus_nor	542	AGGCGAGGGGACTTCGGGCCTGTAGAGGGGAGCTGAGA - - - - -	579
Mus_muscul	530	AGACCAGGGGACTTCGGGCCTGTAGAGGGGAGCTGAGA - - - - -	567
Drosophila	494	- - - - - CCTGCAAGTCTTCAATGGATAGCAAAGGTCGTTAGCTGT	531
Homo_sapie	569	AGGCAAGGGGGCTGCGAGCCTGCAGGGGAGAGCTGAGG - - - - -	606


cons	625	* * * * * * * * * *	672
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Pan_troglo 1359 CCACACC --- CCAGC --- CTCT -GA-- CT TGC -TGTGTTGTCC -GGAG 1395
 Gallus_gal 1057 TCCAGT --- CCAGA --- CAC ---A-- GG-ACCA-----CCAC-- 1082
 Danio_reri 1158 AACAGA-CC-----TCTTCATAGA-GCT---GGAACAC-A--- 1186
 Rattus_nor 1321 TCCGGGT CCTTCTGAGGAATCT-CA--GG-GCAAGGGGAGTCCCACGC 1364
 Mus_muscul 1357 TCCAGGT CCTTCCAGGGAATCT-CA--GG-GCATGGGGAATCCCACAC 1400
 Drosophila 826 ----- 825
 Homo_sapie 1355 CCACACC --- CCAGC --- CTCT -GA-- CT TGC -TGTGTTGTCC -AGAG 1391
 cons 1633  1680

Pan_troglo 1396 GTG-----AGGCT---G---GGCCC TCCCTGGTCTCCA---GCTTAA 1428
 Gallus_gal 1083 -TGACAAAGAAGATGAAGGTAGA-----GCCTCT 1110
 Danio_reri 1187 -----AAGACAC----- 1193
 Rattus_nor 1365 ATGAGGAAGAGGCT---G---TG---CCCTGAGGATGCACGTGCCTCT 1403
 Mus_muscul 1401 ATGTGGAAGAGGCC---G---TG---TCCCAGGATCCACGTGCCTCT 1439
 Drosophila 826 --G----- 826
 Homo_sapie 1392 GTG-----AGGCT---G---GGCCC TCCCTGGTCTCCA---GCTTAA 1424
 cons 1681  1728

Pan_troglo 1429 A--CAGGAGTGA-A-----CTCCCTCTGTCCCAG----- 1455
 Gallus_gal 1111 CCTCACC---TG-----ACCCAGACTGTTCCCTGTCTGAT 1142
 Danio_reri 1194 -----TGA-ACCCCA-----GACTCACTGTTTCCACTG----- 1220
 Rattus_nor 1404 C--CACCAATCACACCCCACTCACCCTCAGGATGTGCCTGG----- 1443
 Mus_muscul 1440 C--TACCAATCACACCC--GCTCGTGACTCAGGATGTGC CCGG----- 1478
 Drosophila 827 -----AAT---A-----TTCGGAG----- 837
 Homo_sapie 1425 A--CAGGAGTGA-A-----CTCCCTCTGTCCCAG----- 1451
 cons 1729  1776

Pan_troglo 1456 ---GGC-----CTCCCT-----T--C----- 1466
 Gallus_gal 1143 TAGA-----CACT-----TGTC----- 1154
 Danio_reri 1221 ---TGTTT-----ACATTATAACGCC TGTCAGATG 1247
 Rattus_nor 1444 ---AGCGGCAG-CT-ACACACTCCACACACCAC-----TG-C----- 1474
 Mus_muscul 1479 ---AGCAGCAGTCTCACACA CTCCACACACCCAT-----TG-C----- 1511
 Drosophila 838 ---G-CT-----TCCGA-----T--C----- 847
 Homo_sapie 1452 ---GGC-----CTCCCT-----T--C----- 1462
 cons 1777  1824

Pan_troglo 1467 -----TGGGCCCCCTA----- 1477
 Gallus_gal 1155 -----TGTGCCACTTT-----T----- 1166
 Danio_reri 1248 CTGAATT TGTGCAAG-TACA-----CCGAGT-AGGAGGAGGAAGTG 1286
 Rattus_nor 1475 -----TG---CCCCCTGC ACTCA-----CCCCTGGCCCT- 1500
 Mus_muscul 1512 -----TG---CCCCCTGCACGCATCTCCCCCCCATCCCCTGGCCCT- 1549
 Drosophila 848 -----CTA----- 850
 Homo_sapie 1463 -----TGGGCCCCCTA----- 1473
 cons 1825  1872

Pan_troglo 1478 -----CAGCC-C-ACCCT--A-CCCCTCC-TCC-----A----- 1500
 Gallus_gal 1167 -----C----- 1167
 Danio_reri 1287 ATGTCATAGGGCC-ACGAGTGTAAAGTTAGCTGAGCTTTTAGGTT--GC 1331
 Rattus_nor 1501 --GACACAGAGCC-ACCAAGGA--CCCATCTATGC---AT-AGGAGA 1538
 Mus_muscul 1550 --GACACAGAGCC-ACCAAG----- 1566
 Drosophila 851 -----CAAAGCAGTCC-----A----- 862
 Homo_sapie 1474 -----CAGCC-C-ACCCT--A-CCCCTCC-TCC-----A----- 1496

cons 1873  1920

Pan_troglo 1501 ----TG-----GGCCCTGCAGGAGGGGAGACCCACCT-TGAAATGGG- 1537
 Gallus_gal 1168 -----CT-----ACCAACTT-TTTTTTTT-- 1185
 Danio_reri 1332 CACTTG-----ACCTCTGCAGTT-----A---T-TGT----- 1354
 Rattus_nor 1539 GACAAG-----GGCCCACCAGGC-----ACCCATCTGTGCTAAGGGC 1575
 Mus_muscul 1567 -----GGCCCACCAGGC-----ACCCATCTGTGCTAAGGGC 1597
 Drosophila 863 ---AGCCAATGG-----AGTGGACAATAACCACAAG--CAATG--- 895
 Homo_sapie 1497 ----TG-----GGCCCTGCAGGAGGGGAGACCCACCT-TGAAGTGGG- 1533

cons 1921  1968

Pan_troglo 1538 ----GGATCAGTAGAGG-----CTTG-CAC-TGCCT--TTGG 1566
 Gallus_gal 1186 ----AT--ATATATCTTAAA-----CTTT-GTC-T--CT--TT-- 1212
 Danio_reri 1355 ----GGATGG--AGA--TGAATCGTGGTTTTGTAC-TGTCAAGTTTA 1392
 Rattus_nor 1576 CCCAGGCTTCC-AGAAG-----CTCC-CAA-TGCAA--TAA- 1606
 Mus_muscul 1598 CCCAGGCTCCC-AGAAG-----CTCC-CAA-TGCAA--TAA- 1628
 Drosophila 896 ----TAAATAC-----CTTT-CACAGACAA--TA-- 917
 Homo_sapie 1534 ----GGATCAGTAGAGG-----CTTG-CAC-TGCCT--TTGG 1562

cons 1969  2016

Pan_troglo 1567 GGCTGGAGGGAG-ACGTG-GGTCCAC-----CAGGCTTCTGGAAAAG 1606
 Gallus_gal 1213 ---TTTA---T-GT-AAGTATTAATA-----TACTT--GAATCAT 1243
 Danio_reri 1393 TTCTA-----ACTTCAATTAAATCAGGTTTGCAAAAAAAA 1426
 Rattus_nor 1607 -----A--AA-AATTCATTT-----CATTCAATTTAAAAAAAA 1634
 Mus_muscul 1629 -----AT-AC-AA-AATCCCTTC-----CATTCTTTTAAAAAAAA 1659
 Drosophila 918 ---TAA---AAAG--TA-TGTTTATTT-----TA----TTTATTA--- 944
 Homo_sapie 1563 GGCTGGAGGGAG-ACGTG-GGTCCAC-----CAGGCTTCTGGAAAAG 1602

cons 2017  2064

Pan_troglo 1607 TCCTCAATGCAATAAAAACAATTTCTTCTTGC--A 1640
 Gallus_gal 1244 G----TAAAAAAAAAAAAAAAAA-----A 1261
 Danio_reri 1427 AAAAAAAAAAAAAAAAAAAAAA-----A 1448
 Rattus_nor 1635 AAAAAAAAAAAAAAAAAAAAAA-A-----AA 1656
 Mus_muscul 1660 AAAAAAAAAAAAAAAAAAAAAA-----AA 1682
 Drosophila 945 ---TTTATTAT---GA----- 954
 Homo_sapie 1603 TCCTCAATGCAATAAAAACAATTTCTTCTTGCAAA 1638

cons 2065  2100