

1160 * 1180 * 1200 * 1220 * 1240 * 1260
gibbon.fast : ATGGGACTCTGAGGTGCTTATGGCTCTGGCATGCCATCAAGAAAAGGGCCATAGAAAGTGTGATTCCCTCAGGAGAGACAACATATAAAAGACAACCTCATCA : 907
pongo.fast : ATGGGACTCTGAGGTGCTTATGGCTCTGGCATGCCATCAAGAAAAGGGCCATAGAAAGTGTGATTCCCTCAGGAGAGACAACCTCATCA : 1074
gorilla.fa : ATGGGACTCTGAGGTGCTTATGGCTCTGGCATGCCATCAAGAAAAGGGCCATAGAAAGTGTGATTCCCTCAGGAGAGACAACCTCATCA : 410
chimp.fast : ATGGGACTCTGAGGTGCTTATGGCTCTGGCATGCCATCAAGAAAAGGGCCATAGAAAGTGTGATTCCCTCAGGAGAGACAACCTCATCA : 1210
hg18_dna : ATGGGACTCTGAGGTGCTTATGGCTCTGGCATGCCATCAAGAAAAGGGCCATAGAAAGTGTGATTCCCTCAGGAGAGACAACCTCATCA : 1234
human_pare : ATGGGACTCTGAGGTGCTTATGGCTCTGGCATGCCATCAAGAAAAGGGCCATAGAAAGTGTGATTCCCTCAGGAGAGACAACATATAAAAGACAACCTCATCA : 210
chimp_pare : ATGGGACTCTGAGGTGCTTATGGCTCTGGCATGCCATCAAGAAAAGGGCCATAGAAAGTGTGATTCCCTCAGGAGAGACAACCTCATCA : 198
dog_parent : ATGGGACTCTGAGGTGCTTATGGCTCTGGCATGCCATCAAGAAAAGGGCCATAGAAAGTGTGATTCCCTCAGGAGAGACAACATATAAAAGACAACCTCATCA : 207
ATGGGACTCTGAGGTGCTTATGGCTCTGGCATGCCATCAAGAAAAGGGCCATAGAAAGTGTGATTCCCTCAGGAGAGACAACCTCATCA

* 1280 * 1300 * 1320 * 1340 * 1360
gibbon.fast : GCCTTGAAGGTCGCATCCAGTTAGGCATTACCCACACTGTGGGGAGCCGTGAGTACCAACCAGAGGTGATGTCCCTCATGCAAGATTTCCACATGGTGGAGAGT : 1012
pongo.fast : GCCTTGAAGGTCGCATCCAGTTAGGCATTACCCACACTGTGGGGAGCCGTGAGTACCAACCAGAGGTGATGTCCCTCATGCAAGATTTCCACATGGTGGAGAGT : 1179
gorilla.fa : GCCTTGAAGGTCGCATCCAGTTAGGCATTACCCACACTGTGGGGAGCCGTGAGTACCAACCAGAGGTGATGTCCCTCATGCAAGATTTCCACATGGTGGAGAGT : 515
chimp.fast : GCCTTGAAGGTCGCATCCAGTTAGGCATTACCCACACTGTGGGGAGCCGTGAGTACCAACCAGAGGTGATGTCCCTCATGCAAGATTTCCACATGGTGGAGAGT : 1315
hg18_dna : GCCTTGAAGGTCGCATCCAGTTAGGCATTACCCACACTGTGGGGAGCCGTGAGTACCAACCAGAGGTGATGTCCCTCATGCAAGATTTCCACATGGTGGAGAGT : 1339
human_pare : GCCTTGAAGGTCGCATCCAGTTAGGCATTACCCACACTGTGGGGAGCCGTGAGTACCAACCAGAGGTGATGTCCCTCATGCAAGATTTCCACATGGTGGAGAGT : 315
chimp_pare : GCCTTGAAGGTCGCATCCAGTTAGGCATTACCCACACTGTGGGGAGCCGTGAGTACCAACCAGAGGTGATGTCCCTCATGCAAGATTTCCACATGGTGGAGAGT : 303
dog_parent : GCCTTGAAGGTCGCATCCAGTTAGGCATTACCCACACTGTGGGGAGCCGTGAGTACCAACCAGAGGTGATGTCCCTCATGCAAGATTTCCACATGGTGGAGAGT : 312
GCCTTGAAGGTCGCATCCAGTTAGGCATTACCCACACTGTGGGGAGCCGTGAGTACCAACCAGAGGTGATGTCCCTCATGCAAGATTTCCACATGGTGGAGAGT

* 1380 * 1400 * 1420 * 1440 * 1460 *
gibbon.fast : ATCTCTCTTCCAGTGAAGGAGCAACCTGACCCCTGCTCATCACTACAATGCTTTTCTTCAAGACCTATGCAACCTGTGCCTTCGGCTACTTTCGGAGCTA : 1117
pongo.fast : ATCTCTCTTCCAGTGAAGGAGCAACCTGACCCCTGCTCATCACTACAATGCTTTTCTTCAAGACCTATGCAACCTGTGCCTTCGGCTACTTTCGGAGCTA : 1284
gorilla.fa : ATCTCTCTTCCAGTGAAGGAGCAACCTGACCCCTGCTCATCACTACAATGCTTTTCTTCAAGACCTATGCAACCTGTGCCTTCGGCTACTTTCGGAGCTA : 620
chimp.fast : ATCTCTCTTCCAGTGAAGGAGCAACCTGACCCCTGCTCATCACTACAATGCTTTTCTTCAAGACCTATGCAACCTGTGCCTTCGGCTACTTTCGGAGCTA : 1420
hg18_dna : ATCTCTCTTCCAGTGAAGGAGCAACCTGACCCCTGCTCATCACTACAATGCTTTTCTTCAAGACCTATGCAACCTGTGCCTTCGGCTACTTTCGGAGCTA : 1444
human_pare : ATCTCTCTTCCAGTGAAGGAGCAACCTGACCCCTGCTCATCACTACAATGCTTTTCTTCAAGACCTATGCAACCTGTGCCTTCGGCTACTTTCGGAGCTA : 420
chimp_pare : ATCTCTCTTCCAGTGAAGGAGCAACCTGACCCCTGCTCATCACTACAATGCTTTTCTTCAAGACCTATGCAACCTGTGCCTTCGGCTACTTTCGGAGCTA : 408
dog_parent : ATCTCTCTTCCAGTGAAGGAGCAACCTGACCCCTGCTCATCACTACAATGCTTTTCTTCAAGACCTATGCAACCTGTGCCTTCGGCTACTTTCGGAGCTA : 417
ATCTCTCTTCCAGTGAAGGAGCAACCTGACCCCTGCTCATCACTACAATGCTTTTCTTCAAGACCTATGCAACCTGTGCCTTCGGCTACTTTCGGAGCTA

* 1480 * 1500 * 1520 * 1540 * 1560 *
gibbon.fast : TTTGGTATCCGGCCGATGCTACTATATTCCTCTGCACTGAGCCGCTGATGAACTCTGTAGCTCTGGAGCTATGTTCCCTTTCTATGTTCCAGGGAC : 1222
pongo.fast : TTTGGTATCCGGCCGATGCTACTATATTCCTCTGCACTGAGCCGCTGATGAACTCTGTAGCTCTGGAGCTATGTTCCCTTTCTATGTTCCAGGGAC : 1389
gorilla.fa : TTTGGTATCCGGCCGATGCTACTATATTCCTCTGCACTGAGCCGCTGATGAACTCTGTAGCTCTGGAGCTATGTTCCCTTTCTATGTTCCAGGGAC : 725
chimp.fast : TTTGGTATCCGGCCGATGCTACTATATTCCTCTGCACTGAGCCGCTGATGAACTCTGTAGCTCTGGAGCTATGTTCCCTTTCTATGTTCCAGGGAC : 1525
hg18_dna : TTTGGTATCCGGCCGATGCTACTATATTCCTCTGCACTGAGCCGCTGATGAACTCTGTAGCTCTGGAGCTATGTTCCCTTTCTATGTTCCAGGGAC : 1549
human_pare : TTTGGTATCCGGCCGATGCTACTATATTCCTCTGCACTGAGCCGCTGATGAACTCTGTAGCTCTGGAGCTATGTTCCCTTTCTATGTTCCAGGGAC : 525
chimp_pare : TTTGGTATCCGGCCGATGCTACTATATTCCTCTGCACTGAGCCGCTGATGAACTCTGTAGCTCTGGAGCTATGTTCCCTTTCTATGTTCCAGGGAC : 513
dog_parent : TTTGGTATCCGGCCGATGCTACTATATTCCTCTGCACTGAGCCGCTGATGAACTCTGTAGCTCTGGAGCTATGTTCCCTTTCTATGTTCCAGGGAC : 522
TTTGGTATCCGGCCGATGCTACTATATTCCTCTGCACTGAGCCGCTGATGAACTCTGTAGCTCTGGAGCTATGTTCCCTTTCTATGTTCCAGGGAC

* 1580 * 1600 * 1620 * 1640 * 1660 * 1680 *
gibbon.fast : GATGAGTTCATATTAAGACGTCACATAAAGAGCGGAGTTTCTCGAAGACTCCTCCAGGATACCTACAAAGCTCAACCAAGACCTCGGACTTTTCG : 1327
pongo.fast : GATGAGTTCATATTAAGACGTCACATAAAGAGCGGAGTTTCTCGAAGACTCCTCCAGGATACCTACAAAGCTCAACCAAGACCTCGGACTTTTCG : 1494
gorilla.fa : GATGAGTTCATATTAAGACGTCACATAAAGAGCGGAGTTTCTCGAAGACTCCTCCAGGATACCTACAAAGCTCAACCAAGACCTCGGACTTTTCG : 830
chimp.fast : GATGAGTTCATATTAAGACGTCACATAAAGAGCGGAGTTTCTCGAAGACTCCTCCAGGATACCTACAAAGCTCAACCAAGACCTCGGACTTTTCG : 1630
hg18_dna : GATGAGTTCATATTAAGACGTCACATAAAGAGCGGAGTTTCTCGAAGACTCCTCCAGGATACCTACAAAGCTCAACCAAGACCTCGGACTTTTCG : 1654
human_pare : GATGAGTTCATATTAAGACGTCACATAAAGAGCGGAGTTTCTCGAAGACTCCTCCAGGATACCTACAAAGCTCAACCAAGACCTCGGACTTTTCG : 630
chimp_pare : GATGAGTTCATATTAAGACGTCACATAAAGAGCGGAGTTTCTCGAAGACTCCTCCAGGATACCTACAAAGCTCAACCAAGACCTCGGACTTTTCG : 618
dog_parent : GATGAGTTCATATTAAGACGTCACATAAAGAGCGGAGTTTCTCGAAGACTCCTCCAGGATACCTACAAAGCTCAACCAAGACCTCGGACTTTTCG : 627
GATGAGTTCATATTAAGACGTCACATAAAGAGCGGAGTTTCTCGAAGACTCCTCCAGGATACCTACAAAGCTCAACCAAGACCTCGGACTTTTCG

* 1700 * 1720 * 1740 * 1760 * 1780 *
gibbon.fast : CCTAAAATTCTATGGACTGTAATGCTGTCAGGAGCTGGAAGAACTTCGGATGTGGTGTGATGAACAATCTTTACCAAGATCGGTAATAATGCAATCAAATAT : 1432
pongo.fast : CCTAAAATTCTATGGACTGTAATGCTGTCAGGAGCTGGAAGAACTTCGGATGTGGTGTGATGAACAATCTTTACCAAGATCGGTAATAATGCAATCAAATAT : 1599
gorilla.fa : CCTAAAATTCTATGGACTGTAATGCTGTCAGGAGCTGGAAGAACTTCGGATGTGGTGTGATGAACAATCTTTACCAAGATCGGTAATAATGCAATCAAATAT : 935
chimp.fast : CCTAAAATTCTATGGACTGTAATGCTGTCAGGAGCTGGAAGAACTTCGGATGTGGTGTGATGAACAATCTTTACCAAGATCGGTAATAATGCAATCAAATAT : 1735
hg18_dna : CCTAAAATTCTATGGACTGTAATGCTGTCAGGAGCTGGAAGAACTTCGGATGTGGTGTGATGAACAATCTTTACCAAGATCGGTAATAATGCAATCAAATAT : 1759
human_pare : CCTAAAATTCTATGGACTGTAATGCTGTCAGGAGCTGGAAGAACTTCGGATGTGGTGTGATGAACAATCTTTACCAAGATCGGTAATAATGCAATCAAATAT : 735
chimp_pare : CCTAAAATTCTATGGACTGTAATGCTGTCAGGAGCTGGAAGAACTTCGGATGTGGTGTGATGAACAATCTTTACCAAGATCGGTAATAATGCAATCAAATAT : 723
dog_parent : CCTAAAATTCTATGGACTGTAATGCTGTCAGGAGCTGGAAGAACTTCGGATGTGGTGTGATGAACAATCTTTACCAAGATCGGTAATAATGCAATCAAATAT : 732
CCTAAAATTCTATGGACTGTAATGCTGTCAGGAGCTGGAAGAACTTCGGATGTGGTGTGATGAACAATCTTTACCAAGATCGGTAATAATGCAATCAAATAT

* 1800 * 1820 * 1840 * 1860 * 1880 *
gibbon.fast : GACCTCAAGGCTCAACCTACAAAGCGGGGCTTCCAGAAAGAGCGGAGAGGACCCCTCCACATTTAAGACCTAGACTTCTTACAGACATCCCTGANGGT : 1537
pongo.fast : GACCTCAAGGCTCAACCTACAAAGCGGGGCTTCCAGAAAGAGCGGAGAGGACCCCTCCACATTTAAGACCTAGACTTCTTACAGACATCCCTGANGGT : 1704
gorilla.fa : GACCTCAAGGCTCAACCTACAAAGCGGGGCTTCCAGAAAGAGCGGAGAGGACCCCTCCACATTTAAGACCTAGACTTCTTACAGACATCCCTGANGGT : 1040
chimp.fast : GACCTCAAGGCTCAACCTACAAAGCGGGGCTTCCAGAAAGAGCGGAGAGGACCCCTCCACATTTAAGACCTAGACTTCTTACAGACATCCCTGANGGT : 1840
hg18_dna : GACCTCAAGGCTCAACCTACAAAGCGGGGCTTCCAGAAAGAGCGGAGAGGACCCCTCCACATTTAAGACCTAGACTTCTTACAGACATCCCTGANGGT : 1864
human_pare : GACCTCAAGGCTCAACCTACAAAGCGGGGCTTCCAGAAAGAGCGGAGAGGACCCCTCCACATTTAAGACCTAGACTTCTTACAGACATCCCTGANGGT : 840
chimp_pare : GACCTCAAGGCTCAACCTACAAAGCGGGGCTTCCAGAAAGAGCGGAGAGGACCCCTCCACATTTAAGACCTAGACTTCTTACAGACATCCCTGANGGT : 828
dog_parent : GACCTCAAGGCTCAACCTACAAAGCGGGGCTTCCAGAAAGAGCGGAGAGGACCCCTCCACATTTAAGACCTAGACTTCTTACAGACATCCCTGANGGT : 837
GACCTCAAGGCTCAACCTACAAAGCGGGGCTTCCAGAAAGAGCGGAGAGGACCCCTCCACATTTAAGACCTAGACTTCTTACAGACATCCCTGANGGT

* 1900 * 1920 * 1940 * 1960 * 1980 *
gibbon.fast : CTTTTTTTGGATGCTGACATCCAAAGGCTCTCTGTAAGACCTCCAGCGTACTCTTTGGTCTGCGAGGCTCAAGATAATGGATTATAGCCCTTTGATGTC : 1642
pongo.fast : CTTTTTTTGGATGCTGACATCCAAAGGCTCTCTGTAAGACCTCCAGCGTACTCTTTGGTCTGCGAGGCTCAAGATAATGGATTATAGCCCTTTGATGTC : 1809
gorilla.fa : CTTTTTTTGGATGCTGACATCCAAAGGCTCTCTGTAAGACCTCCAGCGTACTCTTTGGTCTGCGAGGCTCAAGATAATGGATTATAGCCCTTTGATGTC : 1145
chimp.fast : CTTTTTTTGGATGCTGACATCCAAAGGCTCTCTGTAAGACCTCCAGCGTACTCTTTGGTCTGCGAGGCTCAAGATAATGGATTATAGCCCTTTGATGTC : 1945
hg18_dna : CTTTTTTTGGATGCTGACATCCAAAGGCTCTCTGTAAGACCTCCAGCGTACTCTTTGGTCTGCGAGGCTCAAGATAATGGATTATAGCCCTTTGATGTC : 1969
human_pare : CTTTTTTTGGATGCTGACATCCAAAGGCTCTCTGTAAGACCTCCAGCGTACTCTTTGGTCTGCGAGGCTCAAGATAATGGATTATAGCCCTTTGATGTC : 945
chimp_pare : CTTTTTTTGGATGCTGACATCCAAAGGCTCTCTGTAAGACCTCCAGCGTACTCTTTGGTCTGCGAGGCTCAAGATAATGGATTATAGCCCTTTGATGTC : 933
dog_parent : CTTTTTTTGGATGCTGACATCCAAAGGCTCTCTGTAAGACCTCCAGCGTACTCTTTGGTCTGCGAGGCTCAAGATAATGGATTATAGCCCTTTGATGTC : 942
CTTTTTTTGGATGCTGACATCCAAAGGCTCTCTGTAAGACCTCCAGCGTACTCTTTGGTCTGCGAGGCTCAAGATAATGGATTATAGCCCTTTGATGTC

* 2000 * 2020 * 2040 * 2060 * 2080 * 2100 *
gibbon.fast : ATCCATAATATAGATCATGCACAAAGAGGACCTTAAGCAGCAAAACACATACTCAGTTGATCTCGAAGACAGCCCCAAAAGGCTCTGTATTTCCACAGGCC : 1747
pongo.fast : ATCCATAATATAGATCATGCACAAAGAGGACCTTAAGCAGCAGAAACACATACTCAGTTGATCTCGAAGACAGCCCCAAAAGGCTCTGTATTTCCACAGGCC : 1914
gorilla.fa : ATCCATAATATAGATCATGCACAAAGAGGACCTTAAGCAGCAGAAACACATACTCAGTTGATCTCGAAGACAGCCCCAAAAGGCTCTGTATTTCCACAGGCC : 1250
chimp.fast : ATCCATAATATAGATCATGCACAAAGAGGACCTTAAGCAGCAGAAACACATACTCAGTTGATCTCGAAGACAGCCCCAAAAGGCTCTGTATTTCCACAGGCC : 2050
hg18_dna : ATCCATAATATAGATCATGCACAAAGAGGACCTTAAGCAGCAGAAACACATACTCAGTTGATCTCGAAGACAGCCCCAAAAGGCTCTGTATTTCCACAGGCC : 2074
human_pare : ATCCATAATATAGATCATGCACAAAGAGGACCTTAAGCAGCAGAAACACATACTCAGTTGATCTCGAAGACAGCCCCAAAAGGCTCTGTATTTCCACAGGCC : 1050
chimp_pare : ATCCATAATATAGATCATGCACAAAGAGGACCTTAAGCAGCAGAAACACATACTCAGTTGATCTCGAAGACAGCCCCAAAAGGCTCTGTATTTCCACAGGCC : 1038
dog_parent : ATCCATAATATAGATCATGCACAAAGAGGACCTTAAGCAGCAGAAACACATACTCAGTTGATCTCGAAGACAGCCCCAAAAGGCTCTGTATTTCCACAGGCC : 1047
ATCCATAATATAGATCATGCACAAAGAGGACCTTAAGCAGCAGAAACACATACTCAGTTGATCTCGAAGACAGCCCCAAAAGGCTCTGTATTTCCACAGGCC

gibbon.fas : ATGGAATCCATCCAGGGAAGGCTCGACGGGTGGCAATGCGGAGAGCGATGACCATATGGGTGGCATCCCTGCCGAAATAGTAAAGGGGAAGGCTCTGCTT : 1852
pongo.fast : ATGGAATCCATCCAGGGAAGGCTCGAAGGGTGGCAATGCGGAGAGCGATGACCATATGGGTGGCATCCCTGCCGAAATAGTAAAGGGGAAGGCTCTGCTT : 2019
gorilla.fa : ATGGAATCCATCCAGGGAAGGCTCGACGGGTGGCAATGCGGAGAGCGATGACCATATGGGTGGCATCCCTGCCGAAATAGTAAAGGGGAAGGCTCTGCTT : 1355
chimp.fast : ATGGAATCCATCCAGGGAAGGCTCGACGGGTGGCAATGCGGAGAGCGATGACCATATGGGTGGCATCCCTGCCGAAATAGTAAAGGGGAAGGCTCTGCTT : 2155
hg18_dna : ATGGAATCCATCCAGGGAAGGCTCGACGGGTGGCAATGCGGAGAGCGATGACCATATGGGTGGCATCCCTGCCGAAATAGTAAAGGGGAAGGCTCTGCTT : 2179
human_pare : ATGGAATCCATCCAGGGAAGGCTCGACGGGTGGCAATGCGGAGAGCGATGACCATATGGGTGGCATCCCTGCCGAAATAGTAAAGGGGAAGGCTCTGCTT : 1155
chimp_pare : ATGGAATCCATCCAGGGAAGGCTCGACGGGTGGCAATGCGGAGAGCGATGACCATATGGGTGGCATCCCTGCCGAAATAGTAAAGGGGAAGGCTCTGCTT : 1143
dog_parent : ATGGAATCCATCCAGGGAAGGCTCGACGGGTGGCAATGCGGAGAGCGATGACCATATGGGTGGCATCCCTGCCGAAATAGTAAAGGGGAAGGCTCTGCTT : 1152

gibbon.fas : TATATTTGGCATCATTGACATTTCAAGTCTTACAGTTTGTAAAGTGGAGCATCTTGGAAAGCCCTGGTACATGAGGAGACACAGTCTCAGTGCATCGC : 1957
pongo.fast : TATATTTGGCATCATTGACATTTCAAGTCTTACAGTTTGTAAAGTGGAGCATCTTGGAAAGCCCTGGTACATGAGGAGACACAGTCTCAGTGCATCGC : 2124
gorilla.fa : TATATTTGGCATCATTGACATTTCAAGTCTTACAGTTTGTAAAGTGGAGCATCTTGGAAAGCCCTGGTACATGAGGAGACACAGTCTCAGTGCATCGC : 1460
chimp.fast : TATATTTGGCATCATTGACATTTCAAGTCTTACAGTTTGTAAAGTGGAGCATCTTGGAAAGCCCTGGTACATGAGGAGACACAGTCTCAGTGCATCGC : 2260
hg18_dna : TATATTTGGCATCATTGACATTTCAAGTCTTACAGTTTGTAAAGTGGAGCATCTTGGAAAGCCCTGGTACATGAGGAGACACAGTCTCAGTGCATCGC : 2284
human_pare : TATATTTGGCATCATTGACATTTCAAGTCTTACAGTTTGTAAAGTGGAGCATCTTGGAAAGCCCTGGTACATGAGGAGACACAGTCTCAGTGCATCGC : 1260
chimp_pare : TATATTTGGCATCATTGACATTTCAAGTCTTACAGTTTGTAAAGTGGAGCATCTTGGAAAGCCCTGGTACATGAGGAGACACAGTCTCAGTGCATCGC : 1248
dog_parent : TATATTTGGCATCATTGACATTTCAAGTCTTACAGTTTGTAAAGTGGAGCATCTTGGAAAGCCCTGGTACATGAGGAGACACAGTCTCAGTGCATCGC : 1257

gibbon.fas : CCAGCCTCTTCCGCTAAAGGTTCCAGCGCTTCATGTCAACACAGTATTAAGAGATTCCTTGAAGCCCTCTCCCTCAAAAAGTTCGCTGGTGCATCT : 2062
pongo.fast : CCAGCCTCTTCCGCTAAAGGTTCCAGCGCTTCATGTCAACACAGTATTAAGAGATTCCTTGAAGCCCTCTCCCTCAAAAAGTTCGCTGGTGCATCT : 2229
gorilla.fa : CCAGCCTCTTCCGCTAAAGGTTCCAGCGCTTCATGTCAACACAGTATTAAGAGATTCCTTGAAGCCCTCTCCCTCAAAAAGTTCGCTGGTGCATCT : 1565
chimp.fast : CCAGCCTCTTCCGCTAAAGGTTCCAGCGCTTCATGTCAACACAGTATTAAGAGATTCCTTGAAGCCCTCTCCCTCAAAAAGTTCGCTGGTGCATCT : 2365
hg18_dna : CCAGCCTCTTCCGCTAAAGGTTCCAGCGCTTCATGTCAACACAGTATTAAGAGATTCCTTGAAGCCCTCTCCCTCAAAAAGTTCGCTGGTGCATCT : 2389
human_pare : CCAGCCTCTTCCGCTAAAGGTTCCAGCGCTTCATGTCAACACAGTATTAAGAGATTCCTTGAAGCCCTCTCCCTCAAAAAGTTCGCTGGTGCATCT : 1365
chimp_pare : CCAGCCTCTTCCGCTAAAGGTTCCAGCGCTTCATGTCAACACAGTATTAAGAGATTCCTTGAAGCCCTCTCCCTCAAAAAGTTCGCTGGTGCATCT : 1353
dog_parent : CCAGCCTCTTCCGCTAAAGGTTCCAGCGCTTCATGTCAACACAGTATTAAGAGATTCCTTGAAGCCCTCTCCCTCAAAAAGTTCGCTGGTGCATCT : 1362

gibbon.fas : TTCTCTCAGCAGGCTCCAGTGGCAACTCCTGCATTTTACCAGCCATGGTCTCTGGGGAACACAAGGCCAAGTGAACAACAAGGGGAAGTGGAGCCA : 2167
pongo.fast : TTCTCTCAGCAGGCTCCAGTGGCAACTCCTGCATTTTACCAGCCATGGTCTCTGGGGAACACAAGGCCAAGTGAACAACAAGGGGAAGTGGAGCCA : 2334
gorilla.fa : TTCTCTCAGCAGGCTCCAGTGGCAACTCCTGCATTTTACCAGCCATGGTCTCTGGGGAACACAAGGCCAAGTGAACAACAAGGGGAAGTGGAGCCA : 1670
chimp.fast : TTCTCTCAGCAGGCTCCAGTGGCAACTCCTGCATTTTACCAGCCATGGTCTCTGGGGAACACAAGGCCAAGTGAACAACAAGGGGAAGTGGAGCCA : 2470
hg18_dna : TTCTCTCAGCAGGCTCCAGTGGCAACTCCTGCATTTTACCAGCCATGGTCTCTGGGGAACACAAGGCCAAGTGAACAACAAGGGGAAGTGGAGCCA : 2494
human_pare : TTCTCTCAGCAGGCTCCAGTGGCAACTCCTGCATTTTACCAGCCATGGTCTCTGGGGAACACAAGGCCAAGTGAACAACAAGGGGAAGTGGAGCCA : 1470
chimp_pare : TTCTCTCAGCAGGCTCCAGTGGCAACTCCTGCATTTTACCAGCCATGGTCTCTGGGGAACACAAGGCCAAGTGAACAACAAGGGGAAGTGGAGCCA : 1458
dog_parent : TTCTCTCAGCAGGCTCCAGTGGCAACTCCTGCATTTTACCAGCCATGGTCTCTGGGGAACACAAGGCCAAGTGAACAACAAGGGGAAGTGGAGCCA : 1467

gibbon.fas : GGGCTTCACTTGGTCTGATGTTTACCTCAGACTCCACCTTTGGAGAAATCAGTGGGGTCTGGCTATTCCTGACCCAGTTTCTCACCCTAGTTTGG : 2272
pongo.fast : GGGCTTCACTTGGTCTGATGTTTACCTCAGACTCCACCTTTGGAGAAATCAGTGGGGTCTGGCTATTCCTGACCCAGTTTCTCACCCTAGTTTGG : 2439
gorilla.fa : GGGCTTCACTTGGTCTGATGTTTACCTCAGACTCCACCTTTGGAGAAATCAGTGGGGTCTGGCTATTCCTGACCCAGTTTCTCACCCTAGTTTGG : 1758
chimp.fast : GGGCTTCACTTGGTCTGATGTTTACCTCAGACTCCACCTTTGGAGAAATCAGTGGGGTCTGGCTATTCCTGACCCAGTTTCTCACCCTAGTTTGG : 2575
hg18_dna : GGGCTTCACTTGGTCTGATGTTTACCTCAGACTCCACCTTTGGAGAAATCAGTGGGGTCTGGCTATTCCTGACCCAGTTTCTCACCCTAGTTTGG : 2599
human_pare : GGGCTTCACTTGGTCTGATGTTTACCTCAGACTCCACCTTTGGAGAAATCAGTGGGGTCTGGCTATTCCTGACCCAGTTTCTCACCCTAGTTTGG : 1575
chimp_pare : GGGCTTCACTTGGTCTGATGTTTACCTCAGACTCCACCTTTGGAGAAATCAGTGGGGTCTGGCTATTCCTGACCCAGTTTCTCACCCTAGTTTGG : 1563
dog_parent : GGGCTTCACTTGGTCTGATGTTTACCTCAGACTCCACCTTTGGAGAAATCAGTGGGGTCTGGCTATTCCTGACCCAGTTTCTCACCCTAGTTTGG : 1572

gibbon.fas : GAGACTTTGCAAAATGCTAACTACA-----ETGTC : 2302
pongo.fast : GAGACTTTGCAAAATGCTAACTACA-----ETGTC : 2469
gorilla.fa : ----- : -
chimp.fast : GAGACTTTGCAAAATGCTAACTACA-----ETGTC : 2605
hg18_dna : GAGACTTTGCAAAATGCTAACTACA-----ETGTC : 2629
human_pare : GAGACTTTGCAAAATGCTAACTACA-----GTACAACCTTGGAAAAGCTGAAGTTCGACAGTTCAGAGTTTCAACCCATTAATGGTGTGGAAAGCAGTATGGTGTGTC : 1680
chimp_pare : GAGACTTTGCAAAATGCTAACTACA-----ETGTC : 1593
dog_parent : GAGACTTTGCAAAATGCTAACTACA-----ETGTC : 1602

gibbon.fas : GACAACAGTGAATATGCGGAATGGAGACTTCTTACCACCGGGTGCAGGCCAGCAGGATGCTGTCAACAGTTTGTTCATTCAAAGCCCGCAGCAACCC : 2407
pongo.fast : GACAACAGTGAATATGCGGAATGGAGACTTCTTACCACCGGGTGCAGGCCAGCAGGATGCTGTCAACAGTTTGTTCATTCAAAGCCCGCAGCAACCC : 2574
gorilla.fa : ----- : -
chimp.fast : GACAACAGTGAATATGCGGAATGGAGACTTCTTACCACCGGGTGCAGGCCAGCAGGATGCTGTCAACAGTTTGTTCATTCAAAGCCCGCAGCAACCC : 2710
hg18_dna : GACAACAGTGAATATGCGGAATGGAGACTTCTTACCACCGGGTGCAGGCCAGCAGGATGCTGTCAACAGTTTGTTCATTCAAAGCCCGCAGCAACCC : 2734
human_pare : GACAACAGTGAATATGCGGAATGGAGACTTCTTACCACCGGGTGCAGGCCAGCAGGATGCTGTCAACAGTTTGTTCATTCAAAGCCCGCAGCAACCC : 1785
chimp_pare : GACAACAGTGAATATGCGGAATGGAGACTTCTTACCACCGGGTGCAGGCCAGCAGGATGCTGTCAACAGTTTGTTCATTCAAAGCCCGCAGCAACCC : 1698
dog_parent : GACAACAGTGAATATGCGGAATGGAGACTTCTTACCACCGGGTGCAGGCCAGCAGGATGCTGTCAACAGTTTGTTCATTCAAAGCCCGCAGCAACCC : 1707

gibbon.fas : GAGAACAACGTTGGCCCTTATCACACTGGTAATGACTGTGAAGTCTGTGACCACTACCCAGCACTGGCCGTATCCCTGTCCAAAGCTACATCTGTCCAACCC : 2512
pongo.fast : GAGAACAACGTTGGCCCTTATCACACTGGTAATGACTGTGAAGTCTGTGACCACTACCCAGCACTGGCCGTATCCCTGTCCAAAGCTACATCTGTCCAACCC : 2679
gorilla.fa : ----- : -
chimp.fast : GAGAACAACGTTGGCCCTTATCACACTGGTAATGACTGTGAAGTCTGTGACCACTACCCAGCACTGGCCGTATCCCTGTCCAAAGCTACATCTGTCCAACCC : 2815
hg18_dna : GAGAACAACGTTGGCCCTTATCACACTGGTAATGACTGTGAAGTCTGTGACCACTACCCAGCACTGGCCGTATCCCTGTCCAAAGCTACATCTGTCCAACCC : 2839
human_pare : GAGAACAACGTTGGCCCTTATCACACTGGTAATGACTGTGAAGTCTGTGACCACTACCCAGCACTGGCCGTATCCCTGTCCAAAGCTACATCTGTCCAACCC : 1890
chimp_pare : GAGAACAACGTTGGCCCTTATCACACTGGTAATGACTGTGAAGTCTGTGACCACTACCCAGCACTGGCCGTATCCCTGTCCAAAGCTACATCTGTCCAACCC : 1803
dog_parent : GAGAACAACGTTGGCCCTTATCACACTGGTAATGACTGTGAAGTCTGTGACCACTACCCAGCACTGGCCGTATCCCTGTCCAAAGCTACATCTGTCCAACCC : 1812

gibbon.fas : AAGGGCAAGTCAACCTTCTGCGGGCATCCAGTGGCCCATCTGGCTCTGAAGCAGCAGGCAAGTCAACAAGTTCGATCACAAGATCCGATCATTCCTTTGTGGGAG : 2617
pongo.fast : AAGGGCAAGTCAACCTTCTGCGGGCATCCAGTGGCCCATCTGGCTCTGAAGCAGCAGGCAAGTCAACAAGTTCGATCACAAGATCCGATCATTCCTTTGTGGGAG : 2784
gorilla.fa : ----- : -
chimp.fast : AAGGGCAAGTCAACCTTCTGCGGGCATCCAGTGGCCCATCTGGCTCTGAAGCAGCAGGCAAGTCAACAAGTTCGATCACAAGATCCGATCATTCCTTTGTGGGAG : 2920
hg18_dna : AAGGGCAAGTCAACCTTCTGCGGGCATCCAGTGGCCCATCTGGCTCTGAAGCAGCAGGCAAGTCAACAAGTTCGATCACAAGATCCGATCATTCCTTTGTGGGAG : 2944
human_pare : AAGGGCAAGTCAACCTTCTGCGGGCATCCAGTGGCCCATCTGGCTCTGAAGCAGCAGGCAAGTCAACAAGTTCGATCACAAGATCCGATCATTCCTTTGTGGGAG : 1995
chimp_pare : AAGGGCAAGTCAACCTTCTGCGGGCATCCAGTGGCCCATCTGGCTCTGAAGCAGCAGGCAAGTCAACAAGTTCGATCACAAGATCCGATCATTCCTTTGTGGGAG : 1908
dog_parent : AAGGGCAAGTCAACCTTCTGCGGGCATCCAGTGGCCCATCTGGCTCTGAAGCAGCAGGCAAGTCAACAAGTTCGATCACAAGATCCGATCATTCCTTTGTGGGAG : 1917

aaggccaagatcaacctctgca gggcatcc ctggtccatctggtctgaagcagcagcaagcaaatcaagaat cgcacatctgcttctgtggaa c

