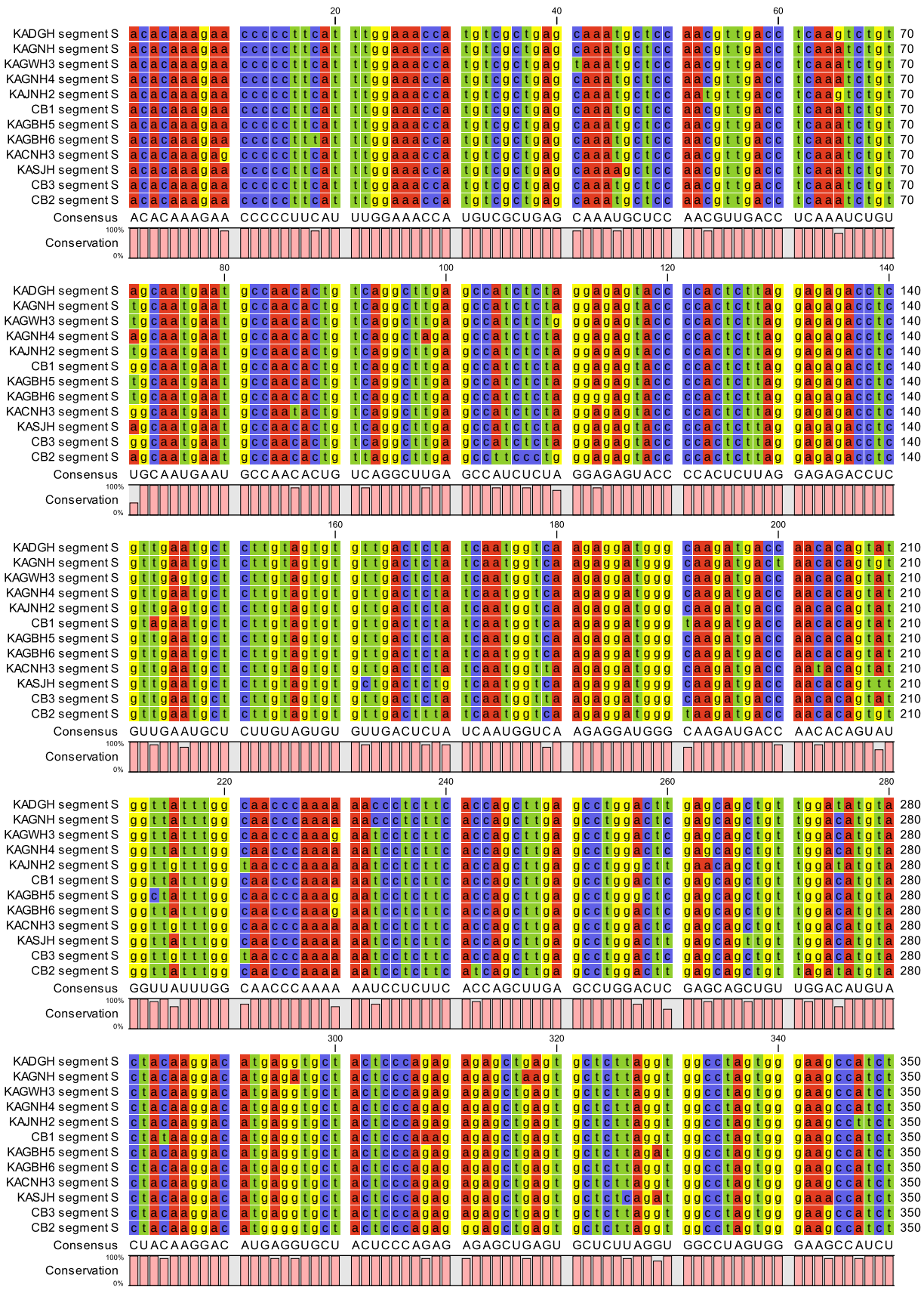
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KAGNH segment S
KAGWH3 segment S
KAGNH4 segment S
KAJNH2 segment S
CB1 segment S
KAGBH5 segment S
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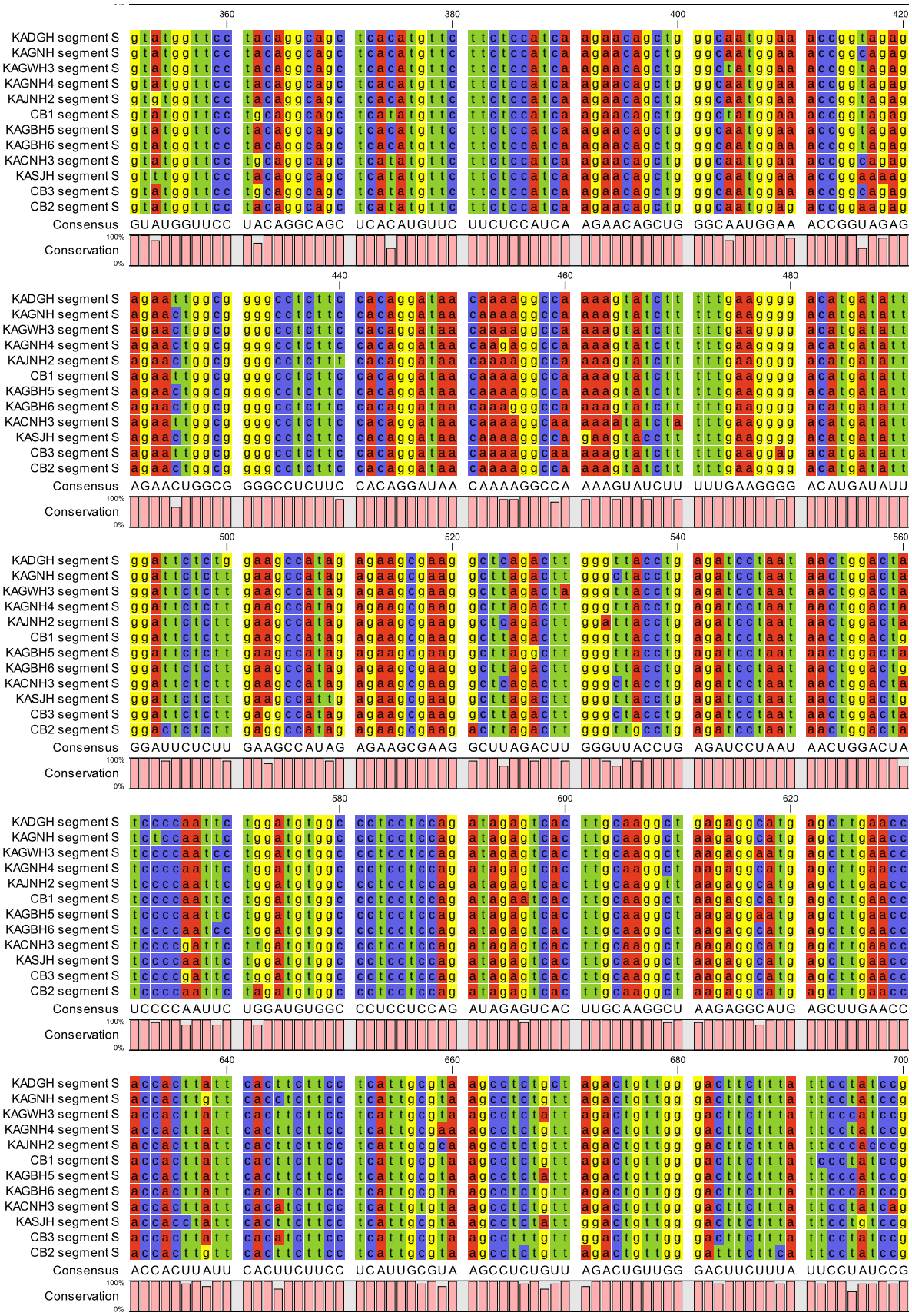
KACNH3 segment S
KASJH segment S
CB3 segment S
CB2 segment S
Consensus
Conservation
100%
0%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KAGNH segment S
KAGWH3 segment S
KAGNH4 segment S
KAJNH2 segment S
CB1 segment S
KAGBH5 segment S
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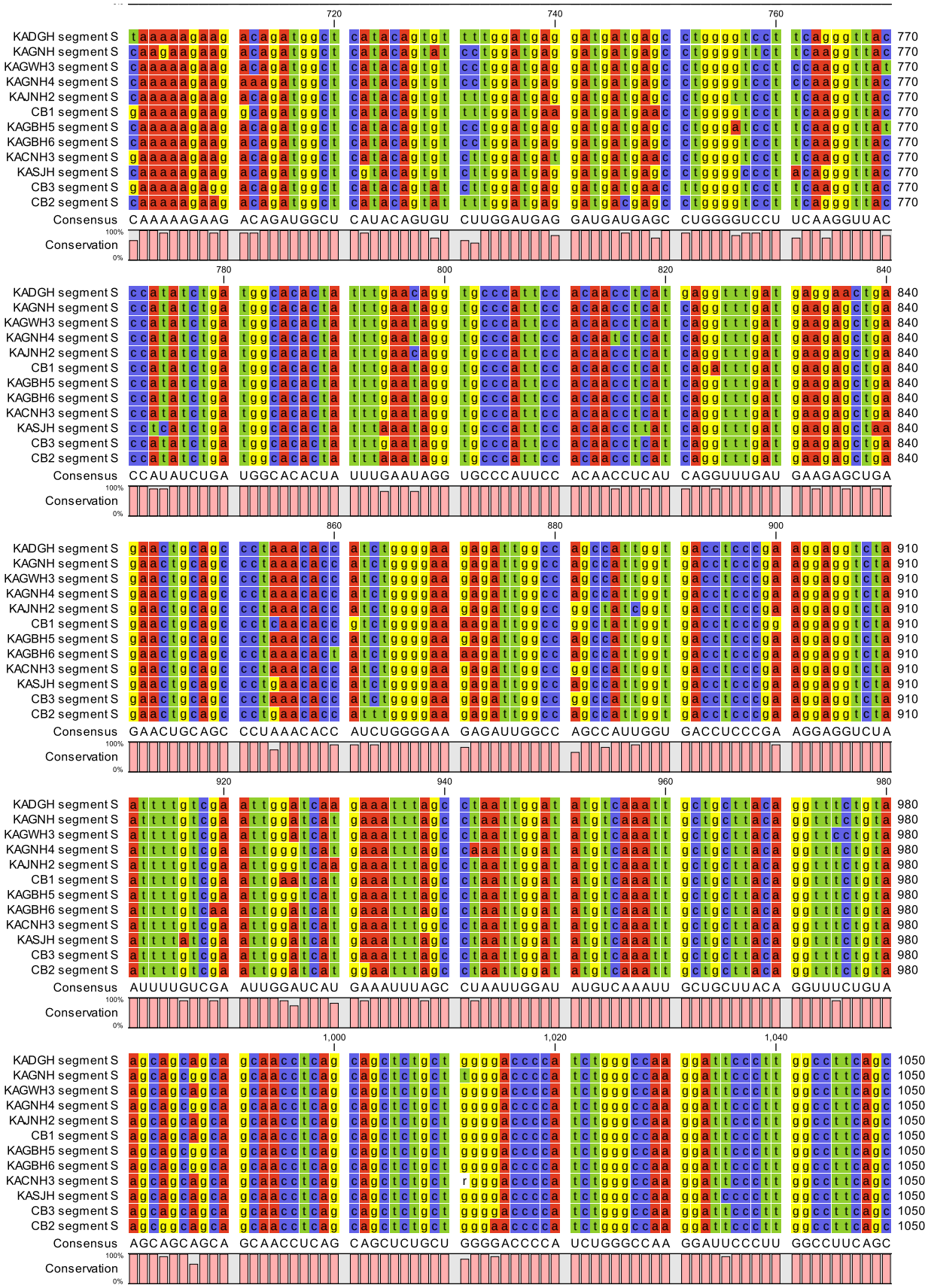
KACNH3 segment S
KASJH segment S
CB3 segment S
CB2 segment S
Consensus
Conservation
100%
0%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CB1 segment S gaaaaagaag gcagatggct catacagtgt tttggatgaa gatgatgaac ctggggtcct tcaaggttac 770
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KASJH segment S caaaaagaag acagatggct cgtacagtgt cttggatgag gatgatgagc ctggggccct acaaggttac 770
CB3 segment S gaaaaagagg acagatggct catacagtat cttggatgag gatgatgaac ttggggtcct tcaaggttac 770
CB2 segment S caaaaagaag acagatggct catacagtat tttggatgag gatgacgagc ctggggtcct tcaggggttac 770
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100%
Conservation
0%
780 800 820 840
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CB1 segment S ccatatctga tggcacacta tttgaatagg tgcccattcc acaacctcat cagatttgat gaagagctga 840
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KASJH segment S cctcatctga tggcacacta tttaaatagg tgcccattcc acaacctcat caggtttgat gaagagctaa 840
CB3 segment S ccatatctga tggcacacta tttgaatagg tgcccattcc acaacctcat caggtttgat gaagagctga 840
CB2 segment S ccatatctga tggcacacta tttaaatagg tgcccattcc acaacctcat caggtttgat gaagagctga 840
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100%
Conservation
0%
860 880 900
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CB1 segment S gaactgcagc cctcaacacc gtctggggaa aagattggcc ggctattggt gacctcccgg aggaggtcta 910
KAGBH5 segment S gaactgcagc cctaaacacc atctggggaa gagattggcc agccattggt gacctcccga aggaggtcta 910
KAGBH6 segment S gaactgcagc cctaaacact atctggggaa aagattggcc agccattggt gacctcccga aggaggtcta 910
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KASJH segment S gaactgcagc cctgaacacc atctggggaa gagattggcc agccattggt gacctcccga aggaggtcta 910
CB3 segment S gaactgcagc cctaaacacc atctggggaa gagattggcc ggccattggt gacctcccga aggaggtcta 910
CB2 segment S gaactgcagc cctgaacacc atttggggaa gagattggcc agccattggt gacctcccga aggaggtcta 910
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100%
Conservation
0%
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CB1 segment S attttgtcga attgaatcat gaaatttagc ctaattggat atgtcaaatt gctgcttaca ggtttctgta 980
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CB3 segment S attttgtcga attggatcat gaaatttagc ctaattggat atgtcaaatt gctgcttaca ggtttctgta 980
CB2 segment S attttgtcga attggatcat ggaatttagc ctaattggat atgtcaaatt gctgcttaca ggtttctgta 980
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100%
Conservation
0%
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CB1 segment S agcagcagca gcaacctcag cagctctgct ggggacccca tctgggccaa ggattccctt ggccttcagc 1050
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CB3 segment S agcagcagca gcaacctcag cagctctgct ggggacccca tctgggccaa ggattccctt ggccttcagc 1050
CB2 segment S agcggcagca gcaacctcag cagctctgct gggaacccca tctgggccaa ggattccctt ggccttcagc 1050
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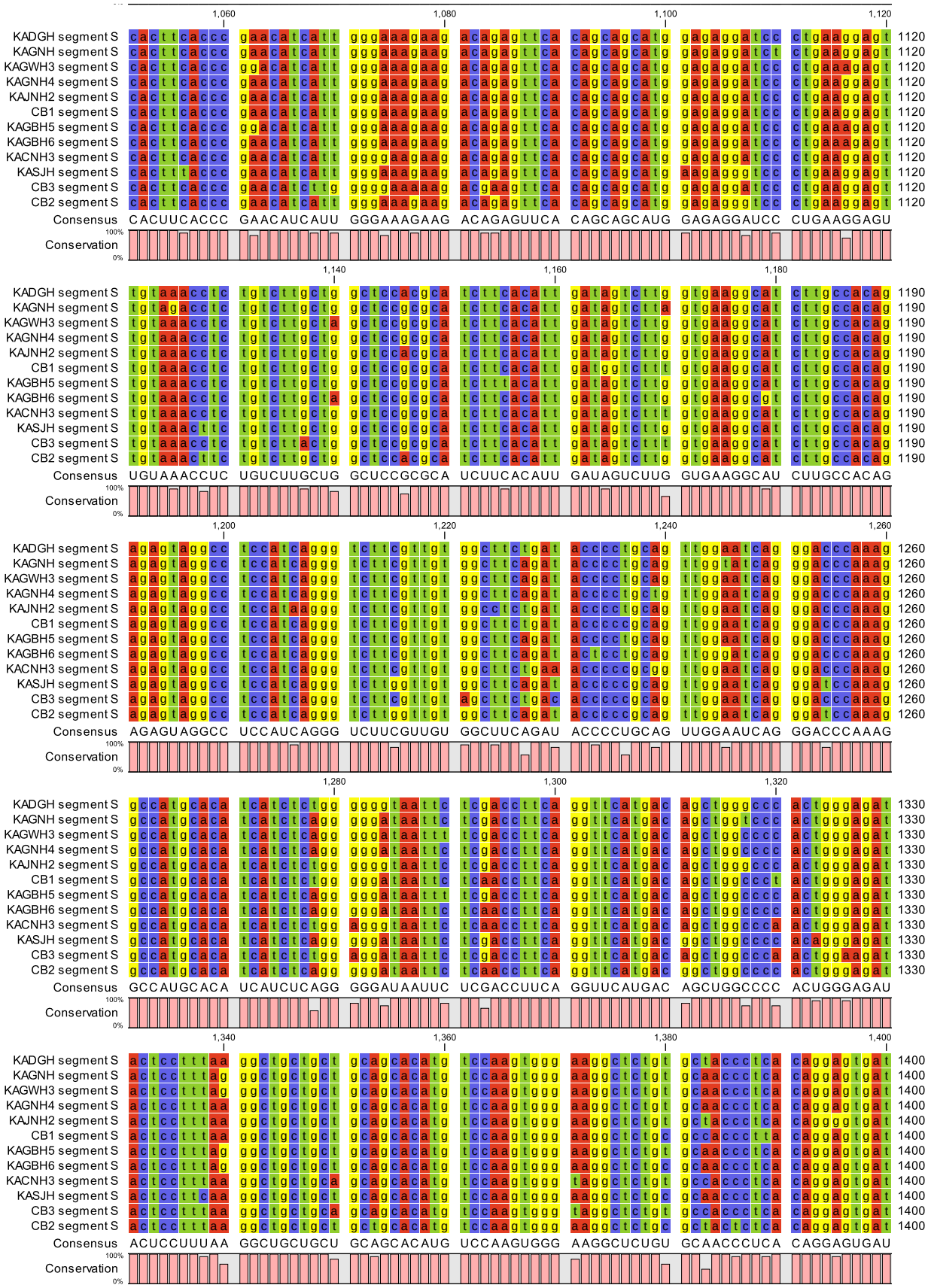
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KAGWH3 segment S cacttcaccc ggacatcatt gggaaagaag acagagttca cagcagcatg gagaggatcc ctgaaagagt 1120
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KASJH segment S cactttaccc gaacatcatt gggaaagaag acagagttca cagcagcatg aagagggtcc ctgaaggagt 1120
CB3 segment S cacttcaccc gaacatcttg gggaaaaag acgaagttca cagcagcatg gagaggatcc ctgaaggagt 1120
CB2 segment S cacttcaccc gaacatcatt gggaaagaag acagagttca cagcagcatg gagagggtcc ctgaaggagt 1120
Consensus CACUUCACCC GAACAUCAUU GGGAAAGAAG ACAGAGUUCA CAGCAGCAUG GAGAGGAUCC CUGAAGGAGU
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Conservation
0%
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CB1 segment S tgtaaacctc tgtcttgctg gctccgcgca tcttcacatt gatggtcttt gtgaaggcat cttgccacag 1190
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CB3 segment S tgtaaacctc tgtcttactg gctccgcgca tcttcacatt gatagtcttt gtgaaggcat cttgccacag 1190
CB2 segment S tgtaaacttc tgtcttgctg gctccacgca tcttcacatt gatagtcttg gtgaaggcat cttgccacag 1190
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100%
Conservation
0%
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KAJNH2 segment S agagtaggcc tccataaggg tcttcgttgt ggcctctgat accccctgcag ttggaatcag ggacccaaag 1260
CB1 segment S agagtaggcc tccatcaggg tcttcgttgt ggcttctgat acccccgcag ttggaatcag ggacccaaag 1260
KAGBH5 segment S agagtaggcc tccatcaggg tcttcgttgt ggcttcagat accccctgcag ttggaatcag ggacccaaag 1260
KAGBH6 segment S agagtaggcc tccatcaggg tcttcgttgt ggcttcagat actcctgcag ttgggatcag ggacccaaag 1260
KACNH3 segment S agagtaggcc tccatcaggg tcttcgttgt ggcttctgaa acccccgcgg ttggaatcag ggacccaaag 1260
KASJH segment S agagtaggcc tccatcaggg tcttggttgt ggcttcagat accccccgcag ttggaatcag ggatccaaag 1260
CB3 segment S agagtaggcc tccatcaggg tcttcgttgt agcttctgac accccccgcag ttggaatcag ggacccaaag 1260
CB2 segment S agagtaggcc tccatcaggg tcttggttgt ggcttcagat accccccgcag ttggaatcag ggatcccaaag 1260
Consensus AGAGUAGGCC UCCAUCAGGG UCUUCGUUGU GGCUUCAGAU ACCCCUGCAG UUGGAAUCAG GGACCCAAAG
100%
Conservation
0%
1,280 1,300 1,320
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KAGNH segment S gccatgcaca tcatctcagg gggataattc tcgaccttca ggttcatgac agctggtccc actgggagat 1330
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KAJNH2 segment S gccatgcaca tcatctctgg ggggtaattc tcgaccttca ggttcatgac agctgggccc actgggagat 1330
CB1 segment S gccatgcaca tcatctctgg gggataattc tcaaccttca ggttcatgac agctggccct actgggagat 1330
KAGBH5 segment S gccatgcaca tcatctcagg gggataattt tcgaccttca ggttcatgac agctggcccc actgggagat 1330
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KACNH3 segment S gccatgcaca tcatctctgg aggtaattc tcaaccttca ggttcatgac agctggcccc actgggagat 1330
KASJH segment S gccatgcaca tcatctcagg gggataattc tcgaccttca ggttcatgac ggctggcccc acagggagat 1330
CB3 segment S gccatgcaca tcatctctgg aggataattc tcgaccttca ggttcatgac agctggcccc actggaagat 1330
CB2 segment S gccatgcaca tcatctcagg gggataattc tcaaccttca ggttcatgac ggctggcccc actgggagat 1330
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Conservation
0%
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KAGNH segment S actcctttag ggctgctgct gcagcacatg tccaagtggg aaggctctgt gcaacccctca caggagtgat 1400
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KAGNH4 segment S actccttaa ggctgctgct gcagcacatg tccaagtggg aaggctctgt gcaacccctca caggagtgat 1400
KAJNH2 segment S actccttaa ggctgctgct gcagcacatg tccaagtggg aaggctctgt gctacccctca caggggtgat 1400
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KASJH segment S actccttcaa ggctgctgct gcagcacatg tccaagtggg aaggctctgc gcaacccctca caggagtgat 1400
CB3 segment S actccttaa ggctgctgca gcagcacatg tccaagtggg taggctctgt gccacccctca caggagtgat 1400
CB2 segment S actccttaa ggctgctgct gctgcacatg tccaagtggg aaggctctgc gctactctca caggagtgat 1400
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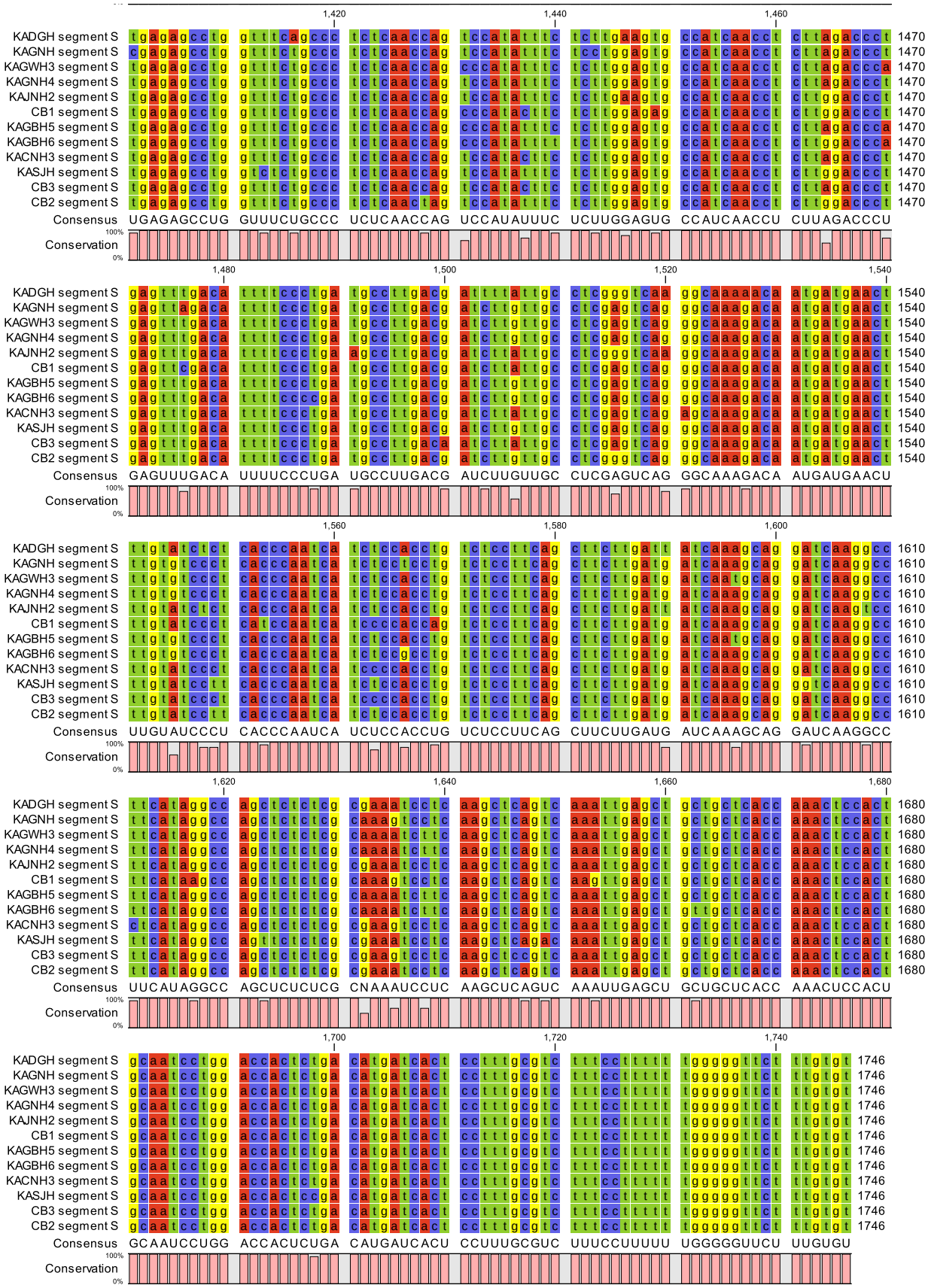
Conservation
0%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CB3 segment S tgagagcctg gtttctgccc tctcaaccag tccatacttc tcttggagtg ccatcaaccct cttagaccct 1470
CB2 segment S tgagagcctg gtttctgccc tctcaactag tccatatttc tcttggagtg ccatcaaccct cttggaccct 1470
Consensus UGAGAGCCUG GUUUCUGCCC UCUCAACCAG UCCAUAUUUC UCUUGGAGUG CCAUCAACCU CUUAGACCCU
100%
Conservation
0%
1,480 1,500 1,520 1,540
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KAGBH5 segment S gagtttgaca ttttccctga tgccttgacg atcttgttgc ctcgagtcag ggcaaagaca atgatgaact 1540
KAGBH6 segment S gagtttgaca ttttcccctga tgccttgacg atcttgttgc ctcgagtcag ggcaaagaca atgatgaact 1540
KACNH3 segment S gagtttgaca ttttccctga tgccttgacg atcttattgc ctcgagtcag agcaaagaca atgatgaact 1540
KASJH segment S gagtttgaca ttttccctga tgccttgacg atcttgttgc ctcgagtcag ggcaaagaca atgatgaact 1540
CB3 segment S gagtttgaca ttttccctga tgccttgaca atcttattgc ctcgagtcag ggcaaagaca atgatgaact 1540
CB2 segment S gagtttgaca ttttccctga tgccttgacg atcttgttgc ctcgggtcag ggcaaagaca atgatgaact 1540
Consensus GAGUUUGACA UUUUCCCUGA UGCCUUGACG AUCUUGUUGC CUCGAGUCAG GGCAAAGACA AUGAUGAACU
100%
Conservation
0%
1,560 1,580 1,600
KADGH segment S ttgtatctct cacccaatca tctccacctg tctccttcag cttcttgatt atcaaagcag gatcaaggcc 1610
KAGNH segment S ttgtgtccct cacccaatca tctcctcctg tctccttcag cttcttgatg atcaaagcag gatcaaggcc 1610
KAGWH3 segment S ttgtgtccct cacccaatca tctccacctg tctccttcag cttcttgatg atcaatgcag gatcaaggcc 1610
KAGNH4 segment S ttgtgtccct cacccaatca tctccacctg tctccttcag cttcttgatg atcaaagcag gatcaaggcc 1610
KAJNH2 segment S ttgtatctct cacccaatca tctccacctg tctccttcag cttcttgatt atcaaagcag gatcaagtcc 1610
CB1 segment S ttgtatccct catccaatca tccccaccag tctccttcag cttcttgatg atcaaagcag gatcaaggcc 1610
KAGBH5 segment S ttgtgtccct cacccaatca tctccacctg tctccttcag cttcttgatg atcaatgcag gatcaaggcc 1610
KAGBH6 segment S ttgtgtccct cacccaatca tctccgcctg tctccttcag cttcttgatg atcaaagcag gatcaaggcc 1610
KACNH3 segment S ttgtatccct cacccaatca tcccccacctg tctccttcag cttcttgatg atcaaagcag gatcaaggcc 1610
KASJH segment S ttgtatcctt cacccaatca tctccacctg tctccttcag cttcttgatg atcaaagcag ggtcaaggcc 1610
CB3 segment S ttgtatccct cacccaatca tccccacctg tctccttcag cttcttgatg atcaaagcag gatcaaggcc 1610
CB2 segment S ttgtatcctt cacccaatca tctccacctg tctccttcag cttcttgatg atcaaagcag gatcaaggcc 1610
Consensus UUGUAUCCCU CACCCAAUCA UCUCCACCUG UCUCCUUCAG CUUCUUGAUG AUCAAAGCAG GAUCAAGGCC
100%
Conservation
0%
1,620 1,640 1,660 1,680
KADGH segment S ttcataggcc agctctctcg cgaaatcctc aagctcagtc aaattgagct gctgctcacc aaactccact 1680
KAGNH segment S ttcataggcc agctctctcg caaagtcctc aagctcagtc aaattgagct gctgctcacc aaactccact 1680
KAGWH3 segment S ttcataggcc agctctctcg caaaatcttc aagctcagtc aaattgagct gctgctcacc aaactccact 1680
KAGNH4 segment S ttcataggcc agctctctcg caaaatcttc aagctcagtc aaattgagct gctgctcacc aaactccact 1680
KAJNH2 segment S ttcataggcc agctctctcg cgaaatcctc aagctcagtc aaattgagct gctgctcacc aaactccact 1680
CB1 segment S ttcataagcc agctctctcg caaagtcctc aagctcagtc aagttgagct gctgctcacc aaactccact 1680
KAGBH5 segment S ttcataggcc agctctctcg caaaatcttc aagctcagtc aaattgagct gctgctcacc aaactccact 1680
KAGBH6 segment S ttcataggcc agctctctcg caaaatcttc aagctcagtc aaattgagct gttgctcacc aaactccact 1680
KACNH3 segment S ctcataggcc agctctctcg cgaagtcctc aagctcagtc aaattgagct gctgctcacc aaactccact 1680
KASJH segment S ttcataggcc agttctctcg cgaaatcctc aagctcagac aaattgagct gctgctcacc aaactccact 1680
CB3 segment S ttcataggcc agctctctcg cgaagtcctc aagctccgtc aaattgagct gctgctcacc aaactccact 1680
CB2 segment S ttcataggcc agctctctcg cgaaatcctc aagctcagtc aaattgagct gctgctcacc aaactccact 1680
Consensus UUCAUAGGCC AGCUCUCUCG CNAAAUCCUC AAGCUCAGUC AAAUUGAGCU GCUGCUCACC AAACUCCACU
100%
Conservation
0%
1,700 1,720 1,740
KADGH segment S gcaatcctgg accactctga catgatcact cctttgcgtc tttcctttt tggggttct ttgtgt 1746
KAGNH segment S gcaatcctgg accactctga catgatcact cctttgcgtc tttcctttt tggggttct ttgtgt 1746
KAGWH3 segment S gcaatcctgg accactctga catgatcact cctttgcgtc tttcctttt tggggttct ttgtgt 1746
KAGNH4 segment S gcaatcctgg accactctga catgatcact cctttgcgtc tttcctttt tggggttct ttgtgt 1746
KAJNH2 segment S gcaatcctgg accactctga catgatcact cctttgcgtc tttcctttt tggggttct ttgtgt 1746
CB1 segment S gcaatcctgg accactctga catgatcact cctttgcgtc tttcctttt tggggttct ttgtgt 1746
KAGBH5 segment S gcaatcctgg accactctga catgatcact cctttgcgtc tttcctttt tggggttct ttgtgt 1746
KAGBH6 segment S gcaatcctgg accactctga catgatcact cctttgcgtc tttcctttt tggggttct ttgtgt 1746
KACNH3 segment S gcaatcctgg accactctga catgatcact cctttgcgtc tttcctttt tggggttct ttgtgt 1746
KASJH segment S gcaatcctgg accactccga catgatcact cctttgcgtc tttcctttt tggggttct ttgtgt 1746
CB3 segment S gcaatcctgg accactctga catgatcact cctttgcgtc tttcctttt tggggttct ttgtgt 1746
CB2 segment S gcaatcctgg accactctga catgatcact cctttgcgtc tttcctttt tggggttct ttgtgt 1746
Consensus GCAAUCCUGG ACCACUCUGA CAUGAUCACU CCUUUGCGUC UUUCCUUUUU UGGGGGUUCU UUGUGU
100%
Conservation
0%