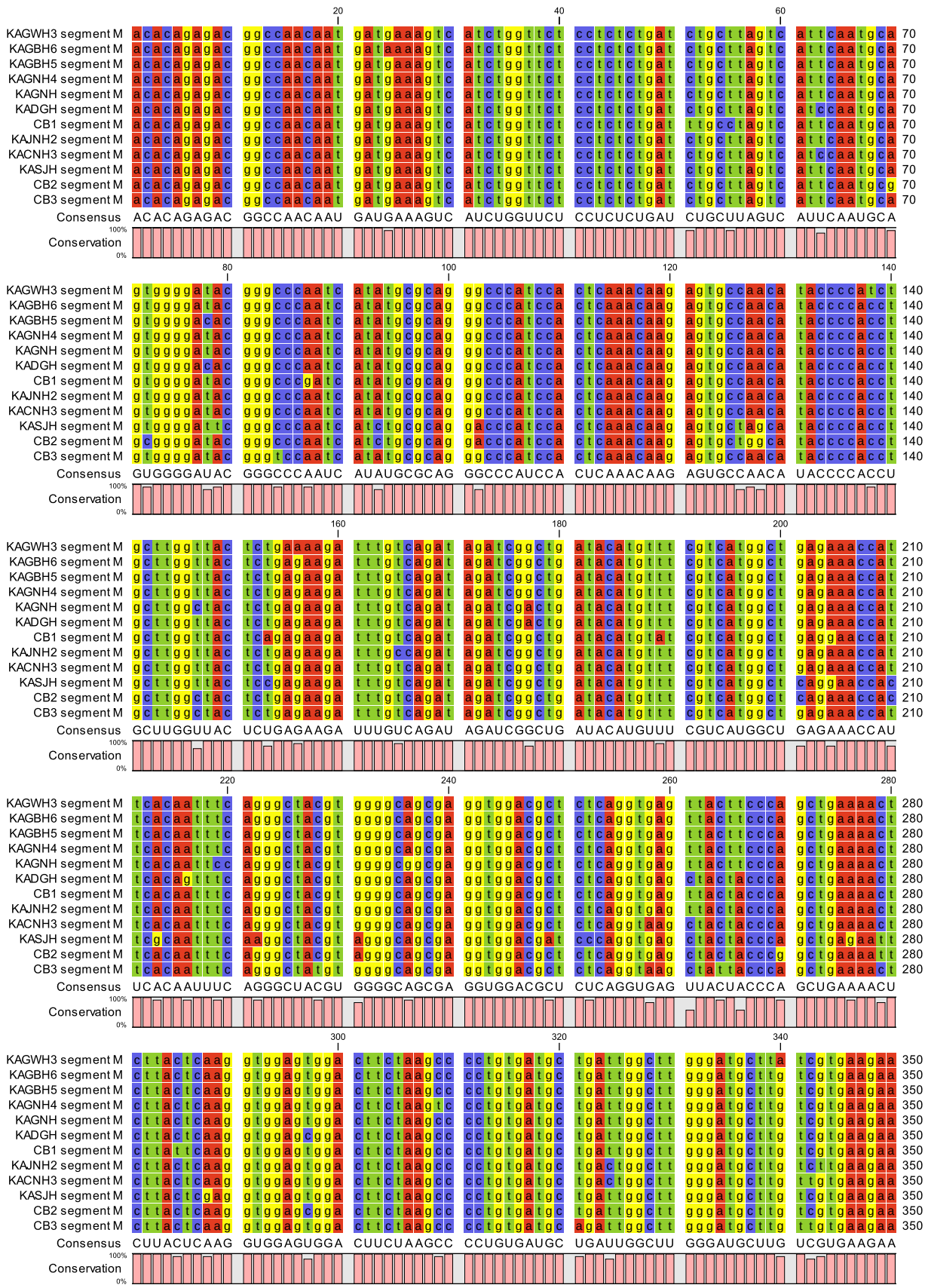
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KAGBH6 segment M
KAGBH5 segment M
KAGNH4 segment M
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Consensus
Conservation
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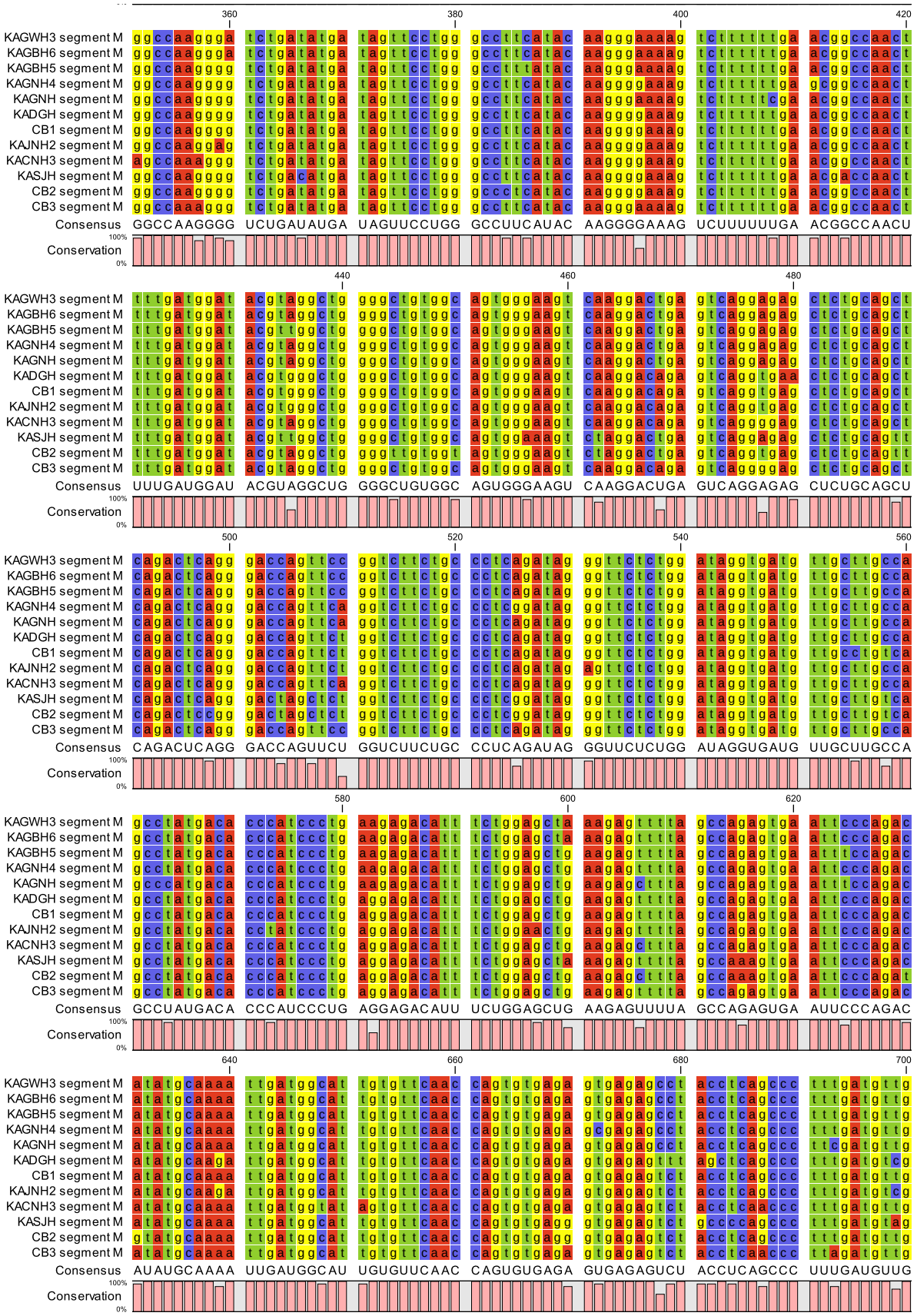
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100%
Conservation
0%
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CB3 segment M tttgatggat acgtaggctg gggctgtggc agtgggaagt caaggacaga gtcaggggag ctctgcagct 490
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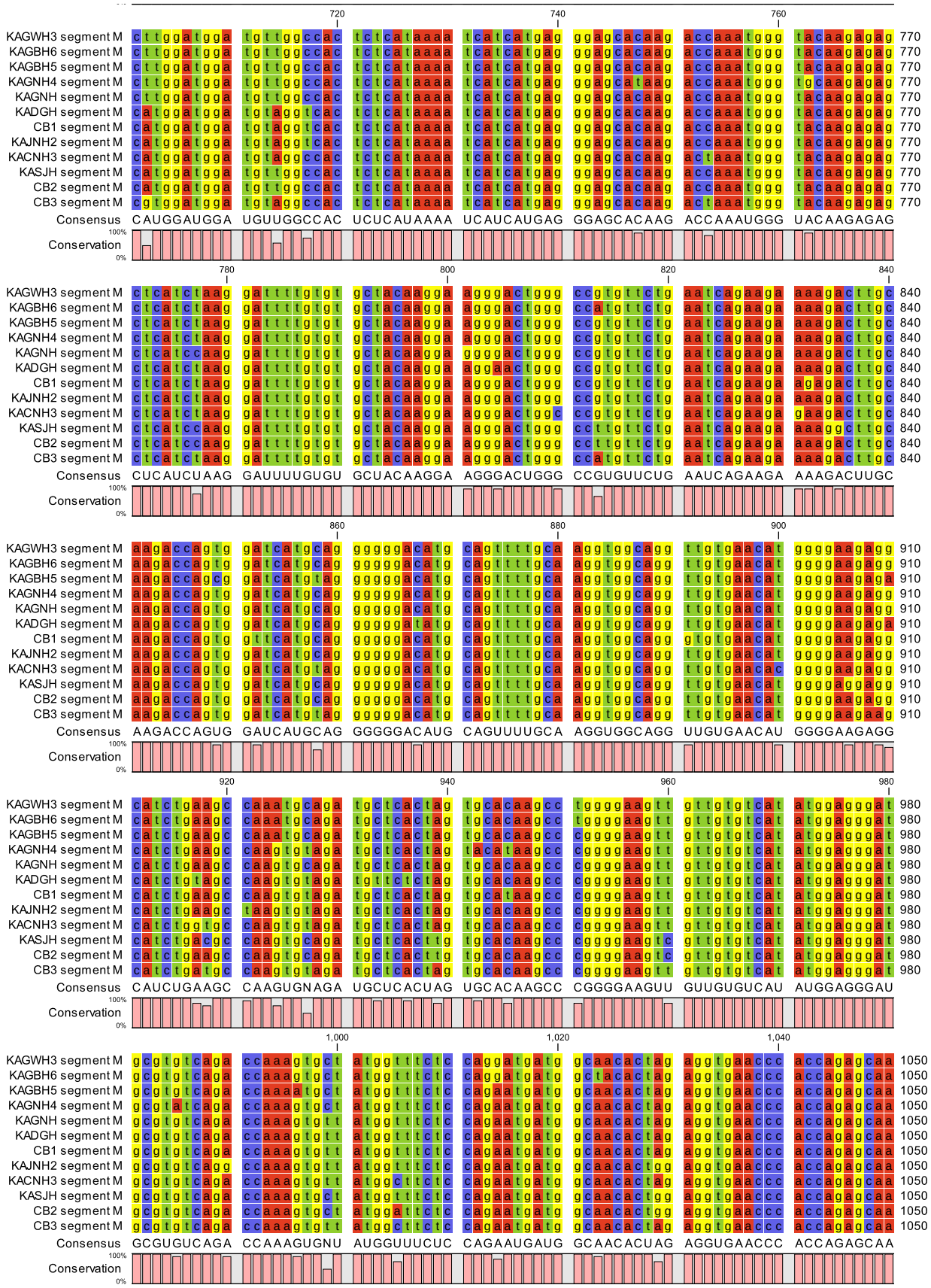
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Conservation
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Conservation
0%
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100%
Conservation
0%
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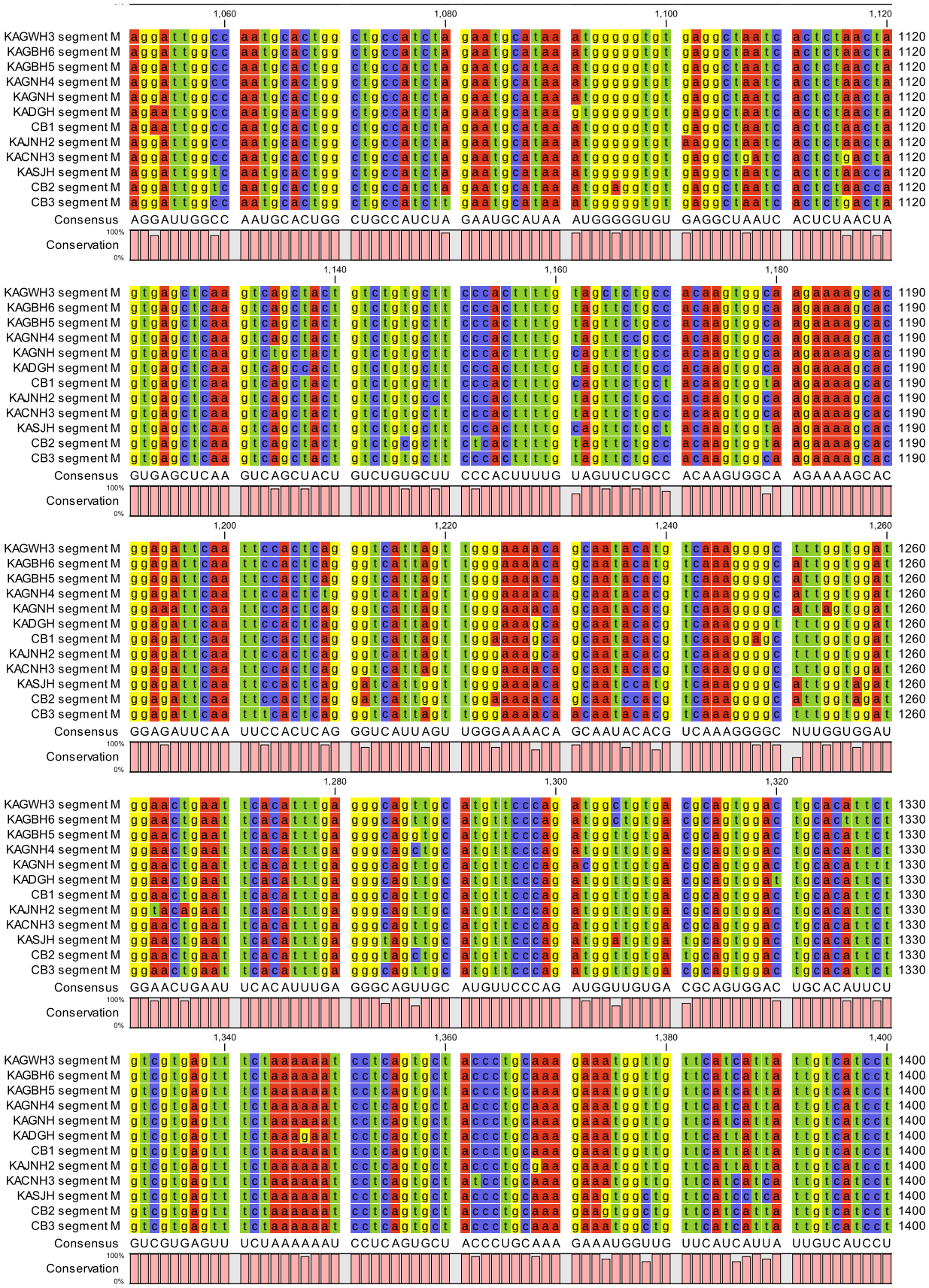
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KADGH segment M ggagattcaa ttccactcag ggtcattagt tgggaaagca gcaatacacg tcaaaggggt tttggtggat 1260
CB1 segment M ggagattcaa ttccactcag ggtcattagt tgggaaaagca gcaatacacg tcaaaggagc tttggtggat 1260
KAJNH2 segment M ggagattcaa ttccactcag ggtcattagt tgggaaagca gcaatacacg tcaaaggggc tttggtggat 1260
KACNH3 segment M ggagattcaa ttccactcag ggtcattagt tgggaaaaca gcaatacacg tcaaaggggc tttggtggat 1260
KASJH segment M ggagattcaa ttccactcag gatcattggt tgggaaaaca gcaatccatg tcaaaggggc attggtagat 1260
CB2 segment M ggagattcaa ttccactcag gatcattggt tggaaaaaca gcaatccacg tcaaaggggc attggtagat 1260
CB3 segment M ggagattcaa tttcactcag ggtcattagt tgggaaaaca acaatacacg tcaaaggggc tttggtggat 1260
Consensus GGAGAUUCAA UUCCACUCAG GGUCAUUAGU UGGGAAAACA GCAAUACACG UCAAAGGGGC NUUGGUGGAU
100%
Conservation
0%
1,280 1,300 1,320
KAGWH3 segment M ggaactgaat tcacatttga gggcagttgc atgttcccag atggctgtga cgcagtggac tgcacattct 1330
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KAGNH4 segment M ggaactgaat tcacatttga gggcagctgc atgttcccag atggttgtga cgcagtggac tgcacattct 1330
KAGNH segment M ggaactgaat tcacatttga gggcagttgc atgttcccag acggttgtga cgcagtggac tgcacatttt 1330
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CB1 segment M ggaactgaat tcacatttga gggcagttgc atgttcccag atggttgtga cgcagtggac tgcacattct 1330
KAJNH2 segment M ggtacagaat tcacatttga gggcagttgc atgttcccag atggttgtga cgcagtggac tgcacattct 1330
KACNH3 segment M ggaactgaat tcacatttga gggcagttgc atgttcccag atggttgtga cgcagtggac tgcacattct 1330
KASJH segment M ggaactgaat tcacatttga gggtagttgc atgttcccag atggatgtga tgcagtggac tgcacattct 1330
CB2 segment M ggaactgaat tcacatttga gggtagctgc atgttcccag atggttgtga tgcagtggac tgcacattct 1330
CB3 segment M ggaactgaat tcacatttga gggcagttgc atgttcccag atggttgtga cgcagtggac tgcacattct 1330
Consensus GGAACUGAAU UCACAUUUGA GGGCAGUUGC AUGUUCCCAG AUGGUUGUGA CGCAGUGGAC UGCACAUUCU
100%
Conservation
0%
1,340 1,360 1,380 1,400
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KAGBH5 segment M gtcgtgagtt tctaaaaaat cctcagtgct acccctgcaaa gaaatggttg ttcatcatta ttgtcatcct 1400
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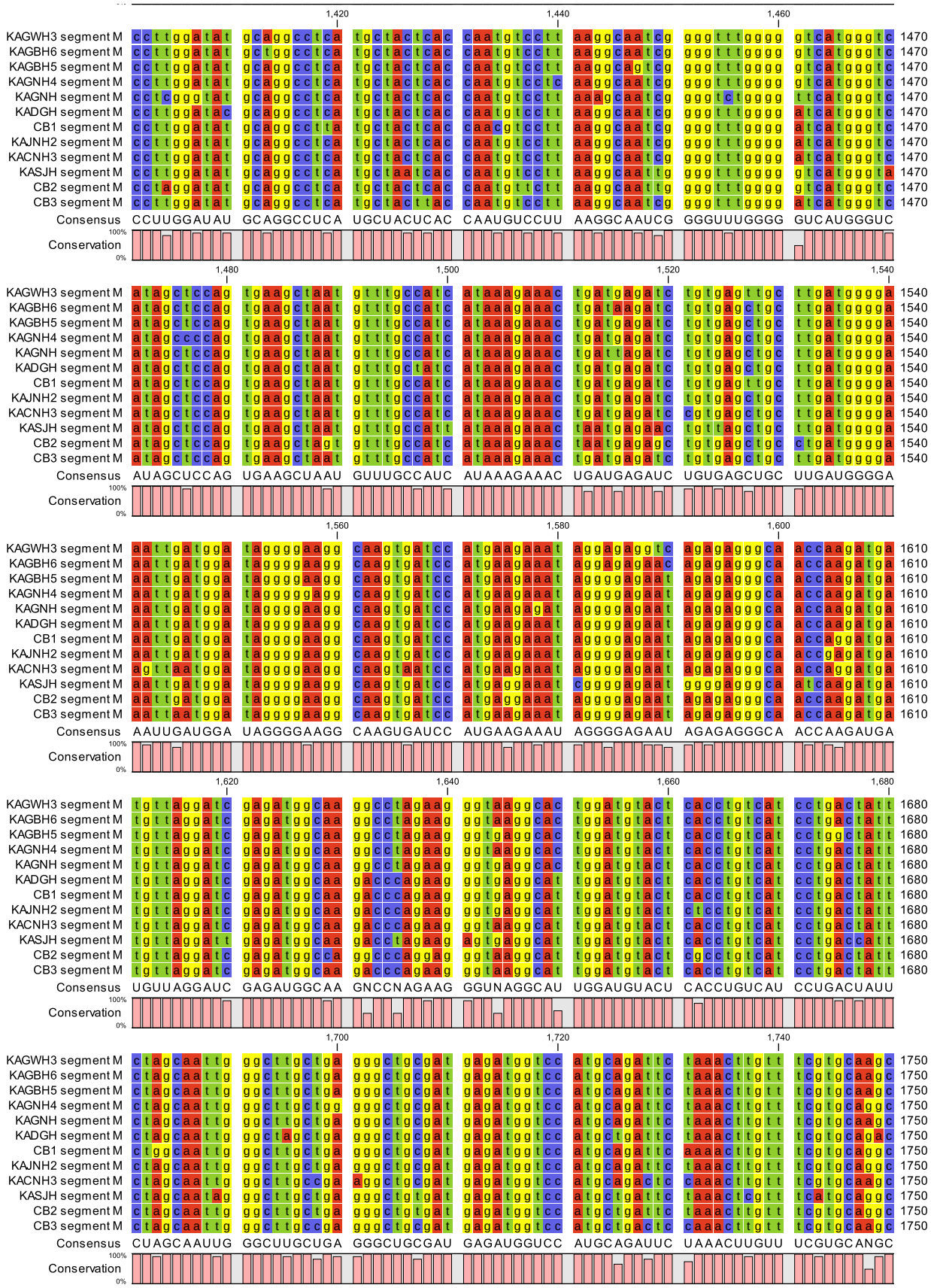
KACNH3 segment M gtcgtgagtt tctaaaaaat cctcagtgct atcctgcaaa gaaatggttg ttcatcatca ttgtcatcct 1400
KASJH segment M gtcgtgagtt tctaaaaaat cctcagtgct acccctgcaaa gaagtggctg ttcatcctca ttgtcatcct 1400
CB2 segment M gtcgtgagtt tctaaaaaat cctcagtgct acccctgcaaa gaagtggctg ttcatcatta ttgtcatcct 1400
CB3 segment M gtcgtgagtt tctaaaaaat cctcagtgct acccctgcaaa gaaatggctg ttcatcatta ttgtcatcct 1400
Consensus GUCGUGAGUU UCUAAAAAAU CCUCAGUGCU ACCCUGCAAA GAAAUGGUUG UUCAUCAUUA UUGUCAUCCU
100%
Conservation
0%


1,420 1,440 1,460
KAGWH3 segment M cctttggatat gcaggcctca tgctactcac caatgtcctt aaggcaatcg gggtttgggg gtcatgggtc 1470
KAGBH6 segment M cctttggatat gctggcctca tgctactcac caatgtcctt aaggcaatcg gggtttgggg gtcatgggtc 1470
KAGBH5 segment M cctttggatat gcaggcctca tgctactcac caatgtcctt aaggcagtcg gggtttgggg gtcatgggtc 1470
KAGNH4 segment M cctttggatat gcaggcctca tgctactcac caatgtcctc aaggcaatcg gggtttgggg gtcatgggtc 1470
KAGNH segment M cctcgggtat gcaggcctca tgctactcac caatgtcctt aaagcaatcg gggtctgggg ttcatgggtc 1470
KADGH segment M cctttggatac gcaggcctca tgctactcac caatgtcctt aaggcaatcg gggtttgggg atcatgggtc 1470
CB1 segment M cctttggatat gcaggcctta tgctactcac caacgtcctt aaggcaatcg gggtttgggg atcatgggtc 1470
KAJNH2 segment M cctttggatat gcaggcctca tgctactcac caatgtcctt aaggcaatcg gggtttgggg atcatgggtc 1470
KACNH3 segment M cctttggatat gcaggcctca tgctactcac caatgtcctt aaggcaatcg gggtttgggg atcatgggtc 1470
KASJH segment M cctttggatat gcaggcctca tgctaatcac caatgtcctt aaggcaattg gggtttgggg gtcatgggta 1470
CB2 segment M cctaggatat gcaggcctca tgctactcac caatgttctt aaggcaattg gggtttgggg gtcatgggtc 1470
CB3 segment M cctttggatat gcaggcctca tgctacttac caatgtcctt aaggcaatcg gggtttgggg atcatgggtc 1470
Consensus CCUUGGAUAU GCAGGCCUCA UGCUACUCAC CAAUGUCCUU AAGGCAAUCG GGGUUUGGGG GUCAUGGGUC
100%
Conservation
0%
1,480 1,500 1,520 1,540
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KAGNH segment M atagctccag tgaagctaat gtttgccatc ataaagaaac tgattagatc tgtgagctgc ttgatgggga 1540
KADGH segment M atagctccag tgaagctaat gtttgctatc ataaagaaac tgatgagatc tgtgagctgc ttgatgggga 1540
CB1 segment M atagctccag tgaagctaat gtttgccatc ataaagaaac tgatgagatc tgtgagttgc ttgatgggga 1540
KAJNH2 segment M atagctccag tgaagctaat gtttgccatc ataaagaaac tgatgagatc tgtgagctgc ttgatgggga 1540
KACNH3 segment M atagctccag tgaagctaat gtttgccatc ataaagaaac tgatgagatc cgtgagctgc ttgatgggga 1540
KASJH segment M atagctccag tgaagctaat gtttgccatt ataaagaaac taatgagaac tgttagctgc ttgatgggga 1540
CB2 segment M atagctccag tgaagctagt gtttgccatc ataaagaaac taatgagagc tgtgagctgc ctgatgggga 1540
CB3 segment M atagctccag tgaagctaat gtttgccatc ataaagaaac tgatgagatc tgtgagctgc ttgatgggga 1540
Consensus AUAGCUCCAG UGAAGCUAAU GUUUGCCAUC AUAAAGAAAC UGAUGAGAUC UGUGAGCUGC UUGAUGGGGA
100%
Conservation
0%
1,560 1,580 1,600
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KAGBH5 segment M aattgatgga tagggggaagg caagtgatcc atgaagaaat aggggagaat agagagggca accaagatga 1610
KAGNH4 segment M aattgatgga tagggggagg caagtgatcc atgaagaaat aggggagaat agagagggca accaagatga 1610
KAGNH segment M aattgatgga tagggggaagg caagtgatcc atgaagagat aggggagaat agagagggca accaagatga 1610
KADGH segment M aattgatgga tagggggaagg caagtgatcc atgaagaaat aggggagaat agagagggca accaagatga 1610
CB1 segment M aattgatgga tagggggaagg caagtgatcc atgaagaaat aggggagaat agagagggca accaggatga 1610
KAJNH2 segment M aattgatgga tagggggaagg caagtgatcc atgaagaaat aggggagaat agagagggca accgagatga 1610
KACNH3 segment M agttaatgga tagggggaagg caagtaatcc atgaagaaat aggggagaat agagagggca accagggatga 1610
KASJH segment M aattgatgga tagggggaagg caagtgatcc atgaggaaat cggggagaat ggggagggca atcaagatga 1610
CB2 segment M aattgatgga tagggggaagg caagtgatcc atgaggaaat aggggagaat agagagggca accaagatga 1610
CB3 segment M aattaatgga tagggggaagg caagtgatcc atgaagaaat aggggagaat agagagggca accaagatga 1610
Consensus AAUUGAUGGA UAGGGGAAGG CAAGUGAUCC AUGAAGAAAU AGGGGAGAAU AGAGAGGGCA ACCAAGAUGA
100%
Conservation
0%
1,620 1,640 1,660 1,680
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KADGH segment M tgttaggatc gagatggcaa gacccagaag ggtgaggcat tggatgtact cacctgtcat cctgactatt 1680
CB1 segment M tgttaggatc gagatggcaa gacccagaag ggtgaggcat tggatgtact cacctgtcat cctgactatt 1680
KAJNH2 segment M tgttaggatc gagatggcaa gacccagaag ggtgaggcat tggatgtact ctcctgtcat cctgactatt 1680
KACNH3 segment M tgttaggatc gagatggcaa gacccagaag ggtaaggcat tggatgtact cacctgtcat cctgactatt 1680
KASJH segment M tgttaggatt gagatggcaa gacctagaag agtgaggcat tggatgtact cacctgtcat cctgaccatt 1680
CB2 segment M tgttaggatc gagatggcca ggcccaggag ggtaaggcat tggatgtact cgcctgtcat cctgactatt 1680
CB3 segment M tgttaggatc gagatggcaa gacccagaag ggtaaggcat tggatgtact cacctgtcat cctgactatt 1680
Consensus UGUUAGGAUC GAGAUGGCAA GNCCNAGAAG GGUNAGGCAU UGGAUGUACU CACCUGUCAU CCUGACUAUU
100%
Conservation
0%
1,700 1,720 1,740
KAGWH3 segment M ctagcaattg ggcttgctga gggctgcgat gagatggtcc atgcagattc taaacttgtt tcgtgcaagc 1750
KAGBH6 segment M ctagcaattg ggcttgctga gggctgcgat gagatggtcc atgcagattc taaacttgtt tcgtgcaagc 1750
KAGBH5 segment M ctagcaattg ggcttgctga gggctgcgat gagatggtcc atgcagattc taaacttgtt tcgtgcaagc 1750
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KAGNH segment M ctagcaattg ggcttgctga gggctgcgat gagatggtcc atgcagattc taaacttgtt tcgtgcaagc 1750
KADGH segment M ctagcaattg ggctagctga gggctgcgat gagatggtcc atgctgattc taaacttgtt tcgtgcagac 1750
CB1 segment M ctggcaattg ggcttgctga gggctgcgat gagatggtcc atgcagattc aaaacttgtt tcgtgcaggc 1750
KAJNH2 segment M ctagcaattg ggcttgctga gggctgcgat gagatggtcc atgcagattc taaacttgtt tcgtgcaggc 1750
KACNH3 segment M ctagcaattg ggcttgccga aggctgcgat gagatggtcc atgcagactc caaacttgtt tcgtgcaagc 1750
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CB2 segment M ctagcaattg ggcttgctga gggctgtgat gagatggtcc atgctgattc taaacttgtt tcgtgcaggc 1750
CB3 segment M ctagcaattg ggcttgccga gggctgcgat gagatggtcc atgctgactc caaacttgtt tcgtgcaagc 1750
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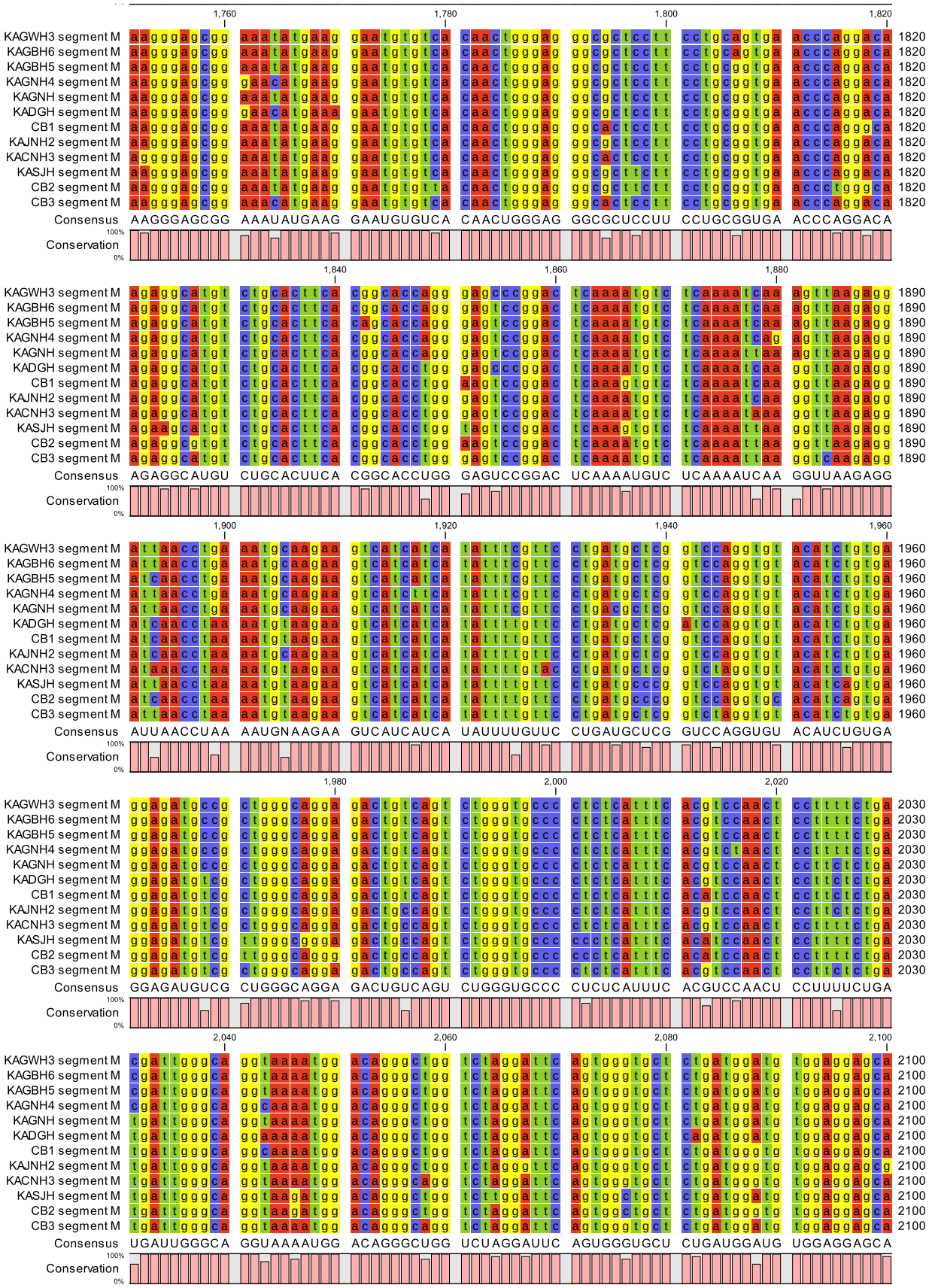
100%
Conservation
0%


1,760 1,780 1,800 1,820
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KAGBH6 segment M aagggagcgg aaatatgaag gaatgtgtca caactgggag ggcgctcctt cctgcagtga acccaggaca 1820
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CB1 segment M aagggagcgg aaatatgaag gaatgtgtca caactgggag ggcactcctt cctgcggtga acccagggca 1820
KAJNH2 segment M aagggagcgg aaatatgaag gaatgtgtca caactgggag ggcgctcctt cctgcggtga acccaggaca 1820
KACNH3 segment M agggggagcgg aaatatgaag gaatgtgtca caactgggag ggcactcctt cctgcggtga acccaggaca 1820
KASJH segment M aagggagcgg aaatatgaag gaatgtgtca caactgggag ggcgcttctt cctgcggtga acccaggaca 1820
CB2 segment M aagggagcgg aaatatgaag gaatgtgtta caactgggag ggcgcttctt cctgcggtga acccctgggca 1820
CB3 segment M aagggagcgg aaacatgaag gaatgtgtca caactgggag ggcactcctt cctgcggtga acccaggaca 1820
Consensus AAGGGAGCGG AAAUAUGAAG GAAUGUGUCA CAACUGGGAG GGCGCUCCUU CCUGCGGUGA ACCCAGGACA
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Conservation
0%
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CB1 segment M agaggcatgt ctgcacttca cggcacctgg aagtccggac tcaaagtgtc tcaaaatcaa ggttaagagg 1890
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KASJH segment M agaagcatgt ctgcacttca cggcacctgg tagtccggac tcaaagtgtc tcaaaattaa ggttaagagg 1890
CB2 segment M agaggcgtgt ctgcacttca cggcacctgg aagtccggac tcaaaatgtc tcaaaattaa ggttaagagg 1890
CB3 segment M agaggcatgt ctgcacttca cggcacctgg gagtccggac tcaaaatgtc tcaaaattaa ggtcaagagg 1890
Consensus AGAGGCAUGU CUGCACUUCA CGGCACCUGG GAGUCCGGAC UCAAAAUGUC UCAAAAUCAA GGUUAAGAGG
100%
Conservation
0%
1,900 1,920 1,940 1,960
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KAGBH6 segment M attaacctga aatgcaagaa gtcatcatca tatttcgttc ctgatgctcg gtccaggtgt acatctgtga 1960
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KADGH segment M atcaacctaa aatgtaagaa gtcatcatca tatttgttc ctgatgctcg atccaggtgt acatctgtga 1960
CB1 segment M atcaacctaa aatgtaagaa gtcatcatca tattttgttc ctgatgctcg gtccaggtgt acatctgtga 1960
KAJNH2 segment M atcaacctaa aatgcaagaa gtcatcatca tattttgttc ctgatgctcg gtccaggtgt acatctgtga 1960
KACNH3 segment M ataaacctaa aatgtaagaa gtcatcatca tattttgtac ctgatgctcg gtctaggtgt acatctgtga 1960
KASJH segment M attaacctaa aatgtaagaa gtcatcatca tattttgttc ctgatgcccg gtccaggtgt acatcagtga 1960
CB2 segment M atcaacctaa aatgtaagaa gtcatcatca tattttgttc ctgatgcccg gtccaggtgc acatcagtga 1960
CB3 segment M attaacctaa aatgtaagaa gtcatcatca tattttgttc ctgatgctcg gtctaggtgt acatctgtga 1960
Consensus AUUAACCUAA AAUGNAAGAA GUCAUCAUCA UAUUUUGUUC CUGAUGCUCG GUCCAGGUGU ACAUCUGUGA
100%
Conservation
0%
1,980 2,000 2,020
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KAGBH5 segment M ggagatgccg ctgggcagga gactgtcagt ctgggtgccc ctctcatttc acgtccaact cctttctga 2030
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KAGNH segment M ggagatgccg ctgggcagga gactgtcagt ctgggtgccc ctctcatttc acgtccaact cctctctga 2030
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CB1 segment M ggagatgtcg ctgggcagga gactgtcagt ctgggtgccc ctctcatttc acatccaact cctctctga 2030
KAJNH2 segment M ggagatgtcg ctgggcagga gactgccagt ctgggtgccc ctctcatttc acgtccaact cctctctga 2030
KACNH3 segment M ggagatgtcg ctgggcagga gactgccagt ctgggtgccc ctctcatttc acgtccaact cctttctga 2030
KASJH segment M ggagatgtcg ttgggcggga gactgccagt ctgggtgccc cccctcattc acatccaact cctttctga 2030
CB2 segment M ggagatgtcg ttgggcaggg gactgccagt ctgggtgccc cccctcattc acatccaact cctttctga 2030
CB3 segment M ggagatgtcg ctgggcagga gactgccagt ctgggtgccc ctctcatttc acgtccaact cctctctga 2030
Consensus GGAGAUGUCG CUGGGCAGGA GACUGUCAGU CUGGGUGCCC CUCUCAUUUC ACGUCCAACU CCUUUUCUGA
100%
Conservation
0%
2,040 2,060 2,080 2,100
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CB3 segment M tgattgggca ggtaaaatgg acagggcagg tctaggattc agtgggtgct ctgatggatg tggaggagca 2100
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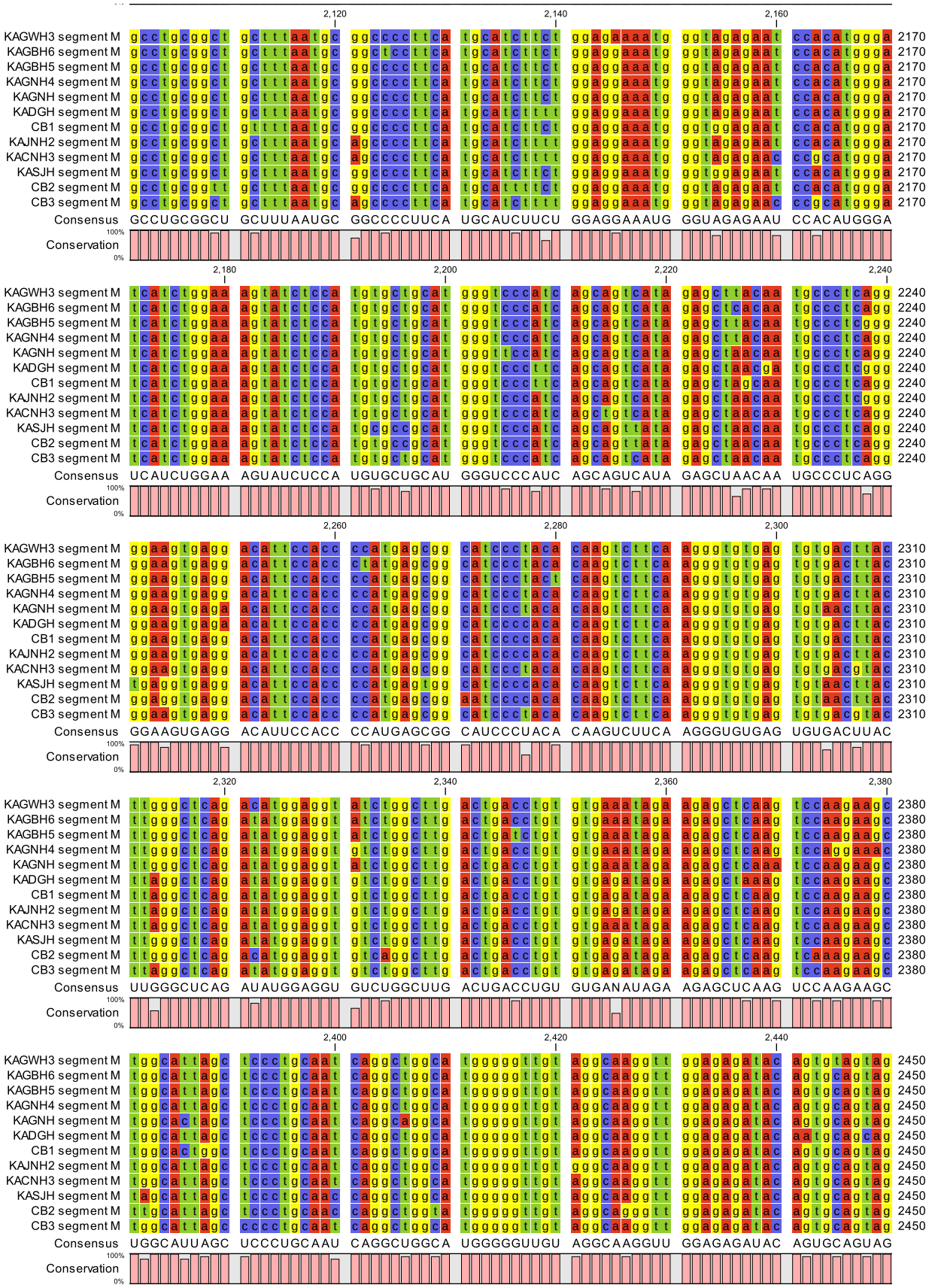
100%
Conservation
0%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KAGNH segment M gcctgcggct gctttaatgc ggcccccttca tgcatcttct ggaggaaatg ggtagagaat ccacatggga 2170
KADGH segment M gcctgcggct gctttaatgc ggcccccttca tgcatcttct ggaggaaatg ggtagagaat ccacatggga 2170
CB1 segment M gcctgcggct gtttaatgc ggcccccttca tgcatcttct ggaggaaatg ggtggagaat ccacatggga 2170
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KACNH3 segment M gcctgcggct gctttaatgc agcccccttca tgcatcttct ggaggaaatg ggtagagaac ccgcatggga 2170
KASJH segment M gcctgcggct gctttaatgc ggcccccttca tgcatcttct ggaggaaatg ggtggagaat ccacatggga 2170
CB2 segment M gcctgcggtt gctttaatgc ggcccccttca tgcatcttct ggaggaaatg ggtagagaat ccacatggga 2170
CB3 segment M gcctgcggct gctttaatgc agcccccttca tgcatcttct ggaggaaatg ggtagagaac ccgcatggga 2170
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Conservation
0%
2,180 2,200 2,220 2,240
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KAGNH segment M tcatctggaa agtatctcca tgtgctgcat gggtccatc agcagtcata gagctaacaa tgccctcagg 2240
KADGH segment M tcatctggaa agtatctcca tgtgctgcat gggtccctc agcagtcata gagctaacga tgccctcggg 2240
CB1 segment M tcatctggaa agtatctcca tgtgctgcat gggtccctc agcagtcata gagctagcaa tgccctcagg 2240
KAJNH2 segment M tcatctggaa agtatctcca tgtgctgcat gggtcccatc agcagtcata gagctaacaa tgccctcggg 2240
KACNH3 segment M tcatctggaa agtatctcca tgtgctgcat gggtcccatc agctgtcata gagctaacaa tgccctcagg 2240
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CB2 segment M tcatctggaa agtatctcca tgtgccgcat gggtcccatc agcagttata gagctaacaa tgccctcagg 2240
CB3 segment M tcatctggaa agtatctcca tgtgctgcat gggtcccatc agcagtcata gagctaacaa tgccctcagg 2240
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Conservation
0%
2,260 2,280 2,300
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KADGH segment M ggaagtgaga acattccacc ccatgagcgg catccccaca caagtcttca agggtgtgag tgtgacttac 2310
CB1 segment M ggaagtgagg acattccacc ccatgagcgg catccccaca caagtcttca agggtgtgag tgtgacttac 2310
KAJNH2 segment M ggaagtgagg acattccacc ccatgagcgg catccccaca caagtcttca agggtgtgag tgtgacttac 2310
KACNH3 segment M ggaagtgagg acattccacc ccatgagcgg catccctaca caagtcttca agggtgtgag tgtgacgtac 2310
KASJH segment M tgaggtgagg acattccacc ccatgagtgg catccccaca caagtcttca agggtgtgag tgtaacttac 2310
CB2 segment M ggaggtgagg acattccacc ccatgagcgg aatccccaca caagtcttca agggtgtgag tgtaacttac 2310
CB3 segment M ggaagtgagg acattccacc ccatgagcgg catccctaca caagtcttca agggtgtgag tgtgacgtac 2310
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0%
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KAGBH5 segment M ttgggctcag atatggaggt atctggcttg actgatctgt gtgaaataga agagctcaag tcccaagaagc 2380
KAGNH4 segment M ttgggctcag atatggaggt gtctggcttg actgacctgt gtgaaataga agagctcaag tccaggaaac 2380
KAGNH segment M ttgggctcag atatggaggt atctggcttg actgacctgt gtgaaataga agagctcaaa tccaagaagc 2380
KADGH segment M ttaggctcag atatggaggt gtctggcttg actgacctgt gtgagataga agagctaaag tccaagaagc 2380
CB1 segment M ttaggctcag atatggaggt gtctggcttg actgacctgt gtgagataga agagctcaag tccaagaagc 2380
KAJNH2 segment M ttaggctcag atatggaggt gtctggcttg actgacctgt gtgagataga agagctcaag tccaagaagc 2380
KACNH3 segment M ttaggctcag atatggaggt gtctggcttg actgacctgt gtgaaataga agagctcaag tccaagaagc 2380
KASJH segment M ttgggctcag atatggaggt gtctggcttg actgacctgt gtgagataga agagctcaag tccaagaagc 2380
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CB3 segment M ttaggctcag atatggaggt gtctggcttg actgacctgt gtgagataga agagctcaag tccaagaagc 2380
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Conservation
0%
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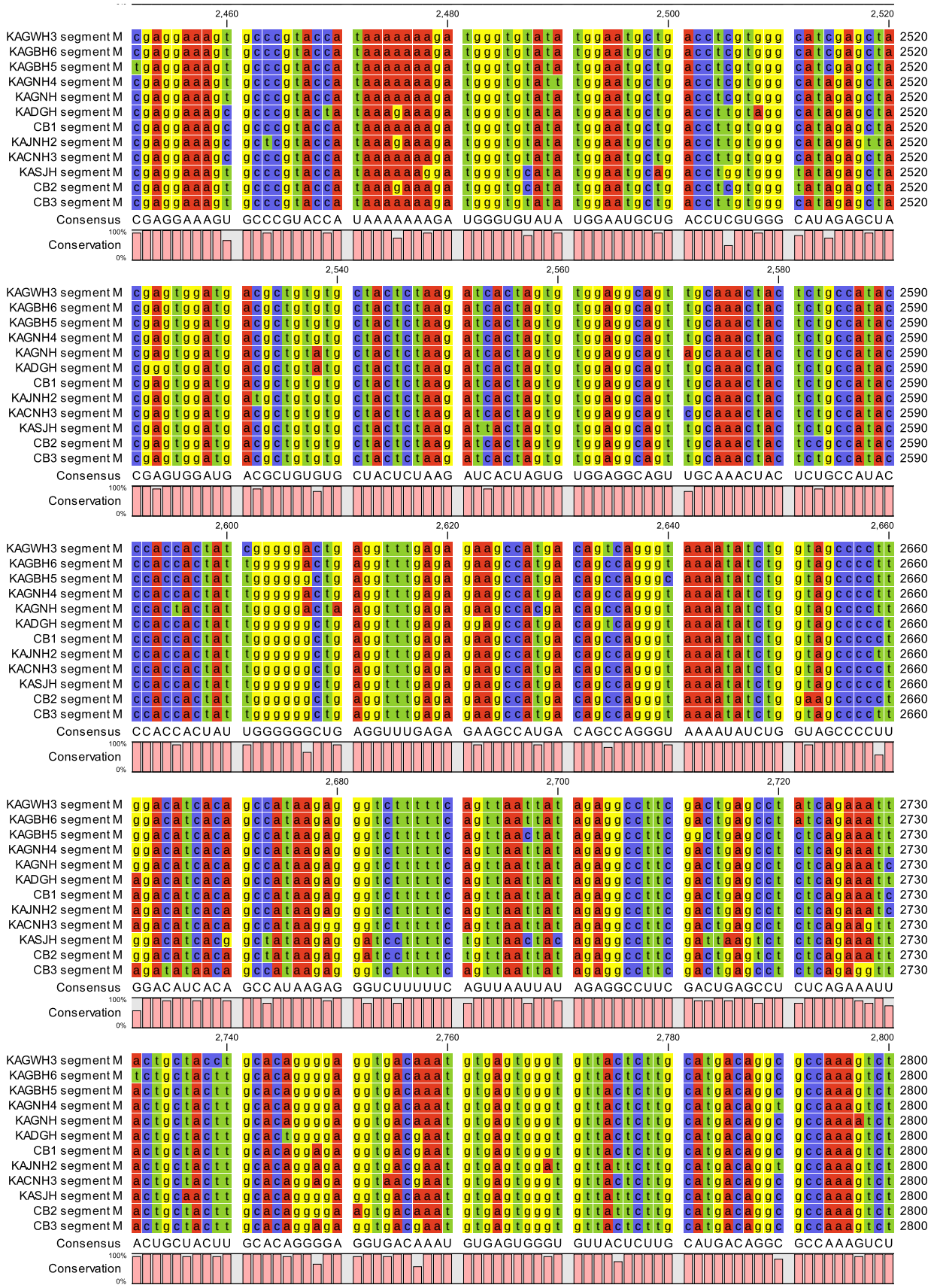
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CB3 segment M cgaggaaagt gcccgtacca taaaaaaaga tgggtgtata tggaatgctg accttgtggg catagagcta 2520
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CB2 segment M cgagtggatg acgctgtgtg ctactctaag atcactagtg tggaggcagt tgcaaactac tccgccatac 2590
CB3 segment M cgagtggatg acgctgtgtg ctactctaag atcactagtg tggaggcagt tgcaaactac tctgccatac 2590
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Conservation
0%
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KAGBH5 segment M ccaccactat tgggggctg aggtttgaga gaagccatga cagccagggc aaaatatctg gtagcccctt 2660
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KAGNH segment M ccactactat tgggggacta aggtttgaga gaagccacga cagccagggt aaaatatctg gtagcccctt 2660
KADGH segment M ccaccactat tgggggggctg aggtttgaga ggagccatga cagtcagggt aaaatatctg gtagccccct 2660
CB1 segment M ccaccactat tgggggggctg aggtttgaga gaagccatga cagccagggt aaaatatctg gtagccccct 2660
KAJNH2 segment M ccaccactat tgggggggctg aggtttgaga gaagccatga cagccagggt aaaatatctg gtagccccct 2660
KACNH3 segment M ccaccactat tgggggggctg aggtttgaga gaagccatga cagcccagggt aaaatatctg gtagcccccct 2660
KASJH segment M ccaccactat tgggggggctg aggtttgaga gaagccatga cagccagggt aaaatatctg gtagcccccct 2660
CB2 segment M ccaccactat tgggggggctg aggtttgaga gaagccatga cagccagggt aaaatatctg gaagcccccct 2660
CB3 segment M ccaccactat tgggggggctg aggtttgaga gaagccatga cagccagggt aaaatatctg gtagcccctt 2660
Consensus CCACCACUAU UGGGGGGCUG AGGUUUGAGA GAAGCCAUGA CAGCCAGGGU AAAAUAUCUG GUAGCCCCUU
100%
Conservation
0%
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CB1 segment M agacatcaca gccataagag ggtctttttc agttaattat agaggcctc gactgagcct ctcagaaatc 2730
KAJNH2 segment M agacatcaca gccataagag ggtctttttc agttaattat agaggcctc gactgagcct ctcagaaatc 2730
KACNH3 segment M agacatcaca gccataaggg ggtctttttc agttaattat agaggcctc gactgagcct ctcagaagtt 2730
KASJH segment M ggacatcacg gctataagag gatcctttttc tgttaactac agaggcctc gattaagtct ctcagaaatt 2730
CB2 segment M ggacatcaca gctataagag gatcctttttc tgttaattat agaggcctc gactgagtct ctcagaaatt 2730
CB3 segment M agatataaca gccataagag ggtctttttc agttaattat agaggcctc gactgagcct ctcagaggtt 2730
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100%
Conservation
0%
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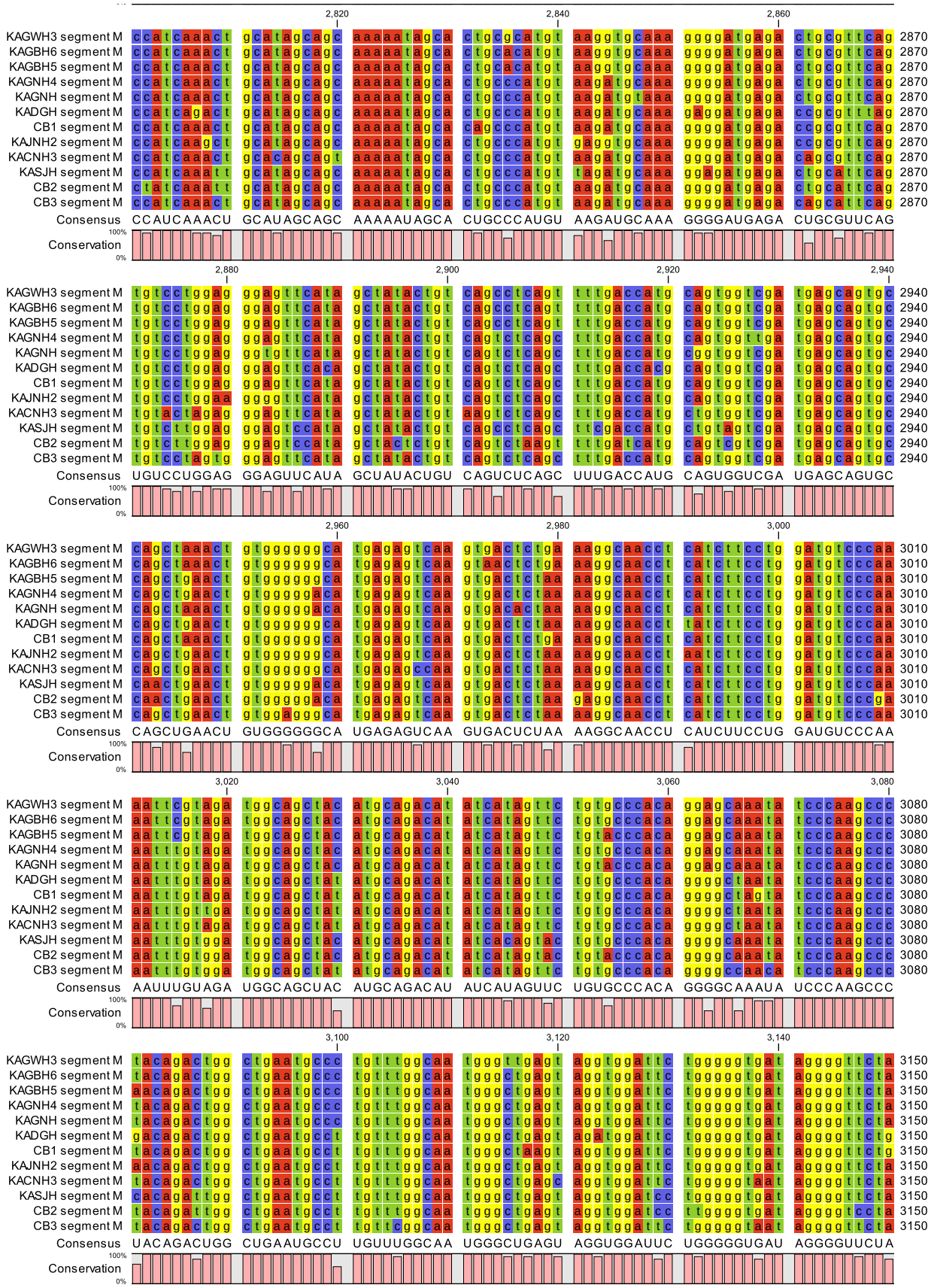
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KAGBH5 segment M ccatcaaact gcatagcagc aaaaatagca ctgcacatgt aaggtgcaaa ggggatgaga ctgcgttcag 2870
KAGNH4 segment M ccatcaaact gcatagcagc aaaaatagca ctgcccatgt aagatgcaaa ggggatgaga ctgcgttcag 2870
KAGNH segment M ccatcaaact gcatagcagc aaaaatagca ctgcccatgt aagatgtaaa ggggatgaga ctgcgttcag 2870
KADGH segment M ccatcagact gcatagcagc aaaaatagca ctgcccatgt aagatgcaaa gaggatgaga ccgcgtttag 2870
CB1 segment M ccatcaaact gcatagcagc aaaaatagca cagcccatgt aagatgcaaa ggggatgaga ccgcgttcag 2870
KAJNH2 segment M ccatcaagct gcatagcagc aaaaatagca ctgcccatgt gaggtgcaaa ggggatgaga ccgcgttcag 2870
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CB2 segment M ctatcaaatt gcatagcagc aaaaatagca ctgcccatgt aagatgcaaa ggggatgaga ctgcattcag 2870
CB3 segment M ccatcaaact gcatagcagc aaaaatagca ctgcccatgt aagatgcaaa ggggatgaga cagcattcag 2870
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100%
Conservation
0%
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KASJH segment M tgtcttggag ggagtccata gctatactgt cagcctcagc ttcgaccatg ctgtagtcga tgagcagtgc 2940
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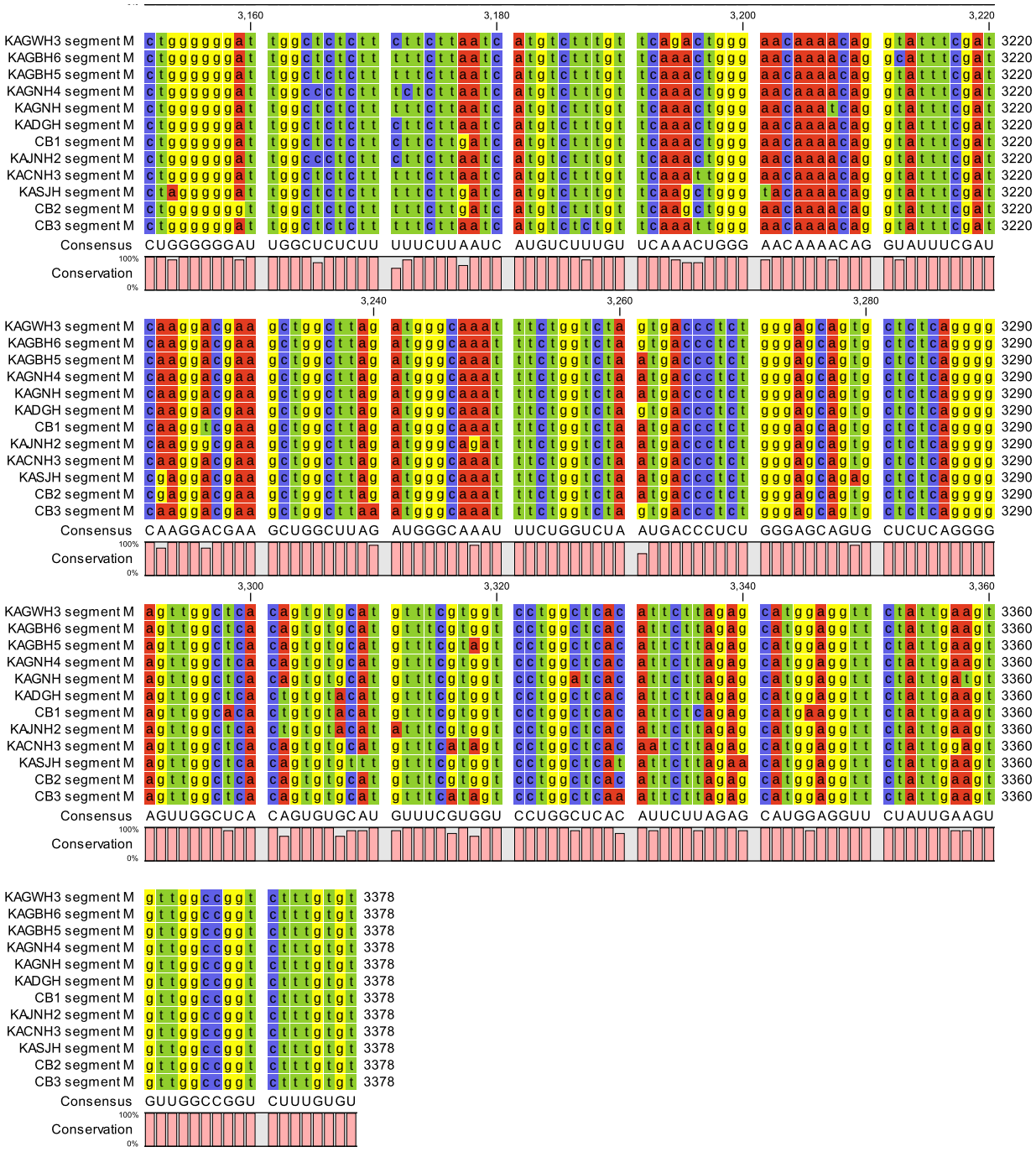
100%
Conservation
0%
2,960 2,980 3,000
KAGWH3 segment M cagctaaact gtggggggca tgagagtcaa gtgactctga aaggcaacct catcttcctg gatgtcccaa 3010
KAGBH6 segment M cagctaaact gtggggggca tgagagtcaa gtaactctga aaggcaacct catcttcctg gatgtcccaa 3010
KAGBH5 segment M cagctgaact gtggggggca tgagagtcaa gtgactctaa aaggcaacct catcttcctg gatgtcccaa 3010
KAGNH4 segment M cagctgaact gtggggggaca tgagagtcaa gtgactctaa aaggcaacct catcttcctg gatgtcccaa 3010
KAGNH segment M cagctaaact gtggggggaca tgagagtcaa gtgacactaa aaggcaacct catcttcctg gatgtcccaa 3010
KADGH segment M cagctgaact gtggggggca tgagagtcaa gtgactctaa aaggcaacct tatcttcctg gatgtcccaa 3010
CB1 segment M cagctaaact gtggggggca tgagagtcaa gtgactctga aaggcaacct catcttcctg gatgtcccaa 3010
KAJNH2 segment M cagctgaact gtggggggca tgagagtcaa gtgactctaa aaggcaacct aatcttcctg gatgtcccaa 3010
KACNH3 segment M cagctgaact gtggggggca tgagagccaa gtgactctaa aaggcaacct catcttcctg gatgtcccaa 3010
KASJH segment M caactgaact gtggggggaca tgagagtcaa gtgactctaa aaggcaacct catcttcctg gatgtcccaa 3010
CB2 segment M caactgaact gtggggggaca tgagagtcaa gtgactctaa gaggcaacct catcttcctg gatgtcccga 3010
CB3 segment M cagctgaact gtggagggca tgagagtcaa gtgactctaa aaggcaacct catcttcctg gatgtcccaa 3010
Consensus CAGCUGAACU GUGGGGGGCA UGAGAGUCAA GUGACUCUAA AAGGCAACCU CAUCUUCCUG GAUGUCCCAA
100%
Conservation
0%
3,020 3,040 3,060 3,080
KAGWH3 segment M aattcgtaga tggcagctac atgcagacat atcatagttc tgtgcccaca ggagcaaata tcccaagccc 3080
KAGBH6 segment M aattcgtaga tggcagctac atgcagacat atcatagttc tgtgcccaca ggagcaaata tcccaagccc 3080
KAGBH5 segment M aattcgtaga tggcagctac atgcagacat atcatagttc tgtacccaca ggagcaaata tcccaagccc 3080
KAGNH4 segment M aatttgtaga tggcagctac atgcagacat atcatagttc tgtgcccaca ggagcaaata tcccaagccc 3080
KAGNH segment M aatttgtaga tggcagctac atgcagacat atcatagttc tgtacccaca ggagcaaata tcccaagccc 3080
KADGH segment M aatttgtaga tggcagctat atgcagacat atcatagttc tgtgcccaca ggggctaata tcccaagccc 3080
CB1 segment M aatttgtaga tggcagctat atgcagacat atcatagttc tgtgcccaca ggggctagta tcccaagccc 3080
KAJNH2 segment M aatttgttga tggcagctat atgcagacat atcatagttc tgtgcccaca ggggctaata tcccaagccc 3080
KACNH3 segment M aatttgtaga tggcagctat atgcagacat atcatagttc tgtgcccaca ggggctaata tcccaagccc 3080
KASJH segment M aatttgtgga tggcagctac atgcagacat atcacagtac tgtgcccaca ggggcaaata tcccaagccc 3080
CB2 segment M aatttgtgga tggcagctac atgcagacat atcatagtac tgtacccaca ggggcaaata tcccaagccc 3080
CB3 segment M aatttgtgga tggcagctat atgcagacat atcatagttc tgtgcccaca ggggccaaca tcccaagccc 3080
Consensus AAUUUGUAGA UGGCAGCUAC AUGCAGACAU AUCAUAGUUC UGUGCCCACA GGGGCAAAUA UCCCAAGCCC
100%
Conservation
0%
3,100 3,120 3,140
KAGWH3 segment M tacagactgg ctgaatgccc tgtttggcaa tgggttgagt aggtggattc tgggggtgat aggggttcta 3150
KAGBH6 segment M tacagactgg ctgaatgccc tgtttggcaa tgggctgagt aggtggattc tgggggtgat aggggttcta 3150
KAGBH5 segment M aacagactgg ctgaatgccc tgtttggcaa tgggctgagt aggtggattc tgggggtgat aggggttcta 3150
KAGNH4 segment M tacagactgg ctgaatgccc tgtttggcaa tgggctgagt aggtggattc tgggggtgat aggggttcta 3150
KAGNH segment M tacagactgg ctgaatgccc tgtttggcaa tgggctgagt aggtggattc tgggggtgat aggggttcta 3150
KADGH segment M gacagactgg ctgaatgcct tgtttggcaa tgggctgagt agatggattc tgggggtgat aggggttctg 3150
CB1 segment M tacagactgg ctgaatgcct tgtttggcaa tgggctaagt aggtggattc tgggggtgat aggggttctg 3150
KAJNH2 segment M aacagactgg ctgaatgcct tgtttggcaa tgggctgagt aggtggattc tgggggtgat aggggttcta 3150
KACNH3 segment M tacagactgg ctgaatgcct tgtttggcaa tgggctgagc aggtggattc tgggggtaat aggggttcta 3150
KASJH segment M cacagattgg ctgaatgcct tgtttggcaa tgggctgagt aggtggatcc tgggggtgat aggggttcta 3150
CB2 segment M tacagattgg ctgaatgcct tgtttggcaa tgggctgagt aggtggatcc ttggggtgat aggggtccta 3150
CB3 segment M tacagactgg ctgaatgcct tgttcggcaa tgggctgagt aggtggattc tgggggtaat aggggttcta 3150
Consensus UACAGACUGG CUGAAUGCCU UGUUUGGCAA UGGGCUGAGU AGGUGGAUUC UGGGGGUGAU AGGGGUUCUA
100%
Conservation
0%


3,160
3,180
3,200
3,220
KAGWH3 segment M ctggggggat tggctctctt cttcttaatc atgtctttgt tcagactggg aacaaaacag gtatttcgat 3220
KAGBH6 segment M ctggggggat tggctctctt tttcttaatc atgtctttgt tcaaactggg aacaaaacag gcatttcgat 3220
KAGBH5 segment M ctggggggat tggctctctt tttcttaatc atgtctttgt tcaaactggg aacaaaacag gtatttcgat 3220
KAGNH4 segment M ctggggggat tggcccctctt tctcttaatc atgtctttgt tcaaactggg aacaaaacag gtatttcgat 3220
KAGNH segment M ctggggggat tggctctctt tttcttaatc atgtctttgt tcaaactggg aacaaatcag gtatttcgat 3220
KADGH segment M ctggggggat tggctctctt cttcttaatc atgtctttgt tcaaactggg aacaaaacag gtatttcgat 3220
CB1 segment M ctggggggat tggctctctt cttcttgatc atgtctttgt tcaaactggg aacaaaacag gtatttcgat 3220
KAJNH2 segment M ctggggggat tggcccctctt cttcttaatc atgtctttgt tcaaactggg aacaaaacag gtatttcgat 3220
KACNH3 segment M ctggggggat tggctctctt tttcttaatc atgtctttgt tcaaattggg aacaaaacag gtatttcgat 3220
KASJH segment M ctaggggggat tggctctctt tttcttgatc atgtctttgt tcaagctggg tacaaaacag gtatttcgat 3220
CB2 segment M ctggggggat tggctctctt tttcttgatc atgtctttgt tcaagctggg aacaaaacag gtatttcgat 3220
CB3 segment M ctggggggat tggctctctt tttcttaatc atgtctctgt tcaaattggg aacaaaacag gtatttcgat 3220
Consensus CUGGGGGGAU UGGCUCUCUU UUUCUUAAUC AUGUCUUUGU UCAAACUGGG AACAAAACAG GUAUUUCGAU
100%
Conservation
0%
3,240
3,260
3,280
KAGWH3 segment M caaggacgaa gctggcttag atgggcaaat ttctggtcta gtgaccctct gggagcagtg ctctcagggg 3290
KAGBH6 segment M caaggacgaa gctggcttag atgggcaaat ttctggtcta gtgaccctct gggagcagtg ctctcagggg 3290
KAGBH5 segment M caaggacgaa gctggcttag atgggcaaat ttctggtcta atgaccctct gggagcagtg ctctcagggg 3290
KAGNH4 segment M caaggacgaa gctggcttag atgggcaaat ttctggtcta atgaccctct gggagcagtg ctctcagggg 3290
KAGNH segment M caaggacgaa gctggcttag atgggcaaat ttctggtcta atgaccctct gggagcagtg ctctcagggg 3290
KADGH segment M caaggacgaa gctggcttag atgggcaaat ttctggtcta gtgaccctct gggagcagtg ctctcagggg 3290
CB1 segment M caaggtcgaa gctggcttag atgggcaaat ttctggtcta atgaccctct gggagcagtg ctctcagggg 3290
KAJNH2 segment M caaggcgaa gctggcttag atgggcaaat ttctggtcta atgaccctct gggagcagtg ctctcagggg 3290
KACNH3 segment M caaggacgaa gctggcttag atgggcaaat ttctggtcta atgaccctct gggagcagtg ctctcagggg 3290
KASJH segment M cgaggacgaa gctggcttag atgggcaaat ttctggtcta atgaccctct gggagcagag ctctcagggg 3290
CB2 segment M cgaggacgaa gctggcttag atgggcaaat ttctggtcta atgaccctct gggagcagtg ctctcagggg 3290
CB3 segment M caaggacgaa gctggcttaa atgggcaaat ttctggtcta gtgaccctct gggagcagtg ctctcagggg 3290
Consensus CAAGGACGAA GCUGGCUUAG AUGGGCAAAU UUCUGGUCUA AUGACCCUCU GGGAGCAGUG CUCUCAGGGG
100%
Conservation
0%
3,300
3,320
3,340
3,360
KAGWH3 segment M agttggctca cagtgtgcat gtttcgtggt cctggctcac attcttagag catggaggtt ctattgaagt 3360
KAGBH6 segment M agttggctca cagtgtgcat gtttcgtggt cctggctcac attcttagag catggaggtt ctattgaagt 3360
KAGBH5 segment M agttggctca cagtgtgcat gtttcgtagt cctggctcac attcttagag catggaggtt ctattgaagt 3360
KAGNH4 segment M agttggctca cagtgtgcat gtttcgtggt cctggctcac attcttagag catggaggtt ctattgaagt 3360
KAGNH segment M agttggctca cagtgtgcat gtttcgtggt cctggatcac attcttagag catggaggtt ctattgatgt 3360
KADGH segment M agttggctca ctgtgtacat gtttcgtggt cctggctcac attcttagag catggaggtt ctattgaagt 3360
CB1 segment M agttggcaca ctgtgtacat gtttcgtggt cctggctcac attctcagag catgaaggtt ctattgaagt 3360
KAJNH2 segment M agttggctca ctgtgtacat atttcgtggt cctggctcac attcttagag catggaggtt ctattgaagt 3360
KACNH3 segment M agttggctca cagtgtgcat gtttcatagt cctggctcac aatcttagag catggaggtt ctattggagt 3360
KASJH segment M agttggctca cagtgtgttt gtttcgtggt cctggctcat attcttagaa catggaggtt ctattgaagt 3360
CB2 segment M agttggctca cagtgtgcat gtttcgtggt cctggctcac attcttagag catggaggtt ctattgaagt 3360
CB3 segment M agttggctca cagtgtgcat gtttcatagt cctggctcaa attcttagag catggaggtt ctattgaagt 3360
Consensus AGUUGGCUCA CAGUGUGCAU GUUUCGUGGU CCUGGCUCAC AUUCUUAGAG CAUGGAGGUU CUAUUGAAGU
100%
Conservation
0%
KAGWH3 segment M gttggccggt ctttgtgt 3378
KAGBH6 segment M gttggccggt ctttgtgt 3378
KAGBH5 segment M gttggccggt ctttgtgt 3378
KAGNH4 segment M gttggccggt ctttgtgt 3378
KAGNH segment M gttggccggt ctttgtgt 3378
KADGH segment M gttggccggt ctttgtgt 3378
CB1 segment M gttggccggt ctttgtgt 3378
KAJNH2 segment M gttggccggt ctttgtgt 3378
KACNH3 segment M gttggccggt ctttgtgt 3378
KASJH segment M gttggccggt ctttgtgt 3378
CB2 segment M gttggccggt ctttgtgt 3378
CB3 segment M gttggccggt ctttgtgt 3378
Consensus GUUGGCCGGU CUUUGUGU
100%
Conservation
0%