

Field et al. Supplemental Information

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>Chrysemys-let-7a-1_pre
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>Chrysemys-let-7a-1-3p
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>Chrysemys-let-7a-2-3p
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>Chrysemys-let-7a-3-5p
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>Chrysemys-let-7a-4-3p
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>Chrysemys-let-7c-1-3p
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>Chrysemys-let-7c-2_pre
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>Chrysemys-let-7c-2-5p
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>Chrysemys-let-7c-2-3p
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>Chrysemys-let-7d-3p
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>Chrysemys-mir-1a-1-5p
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>Chrysemys-mir-1a-2_pre
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>Chrysemys-mir-1a-2-3p
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>Chrysemys-mir-1a-2-5p
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>Chrysemys-mir-10b-3p
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>Chrysemys-mir-15b-1-3p
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>Chrysemys-mir-18a-5p
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>Chrysemys-mir-18a-3p
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>Chrysemys-mir-18b_pre
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>Chrysemys-mir-18b-3p
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>Chrysemys-mir-19b-1_pre
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>Chrysemys-mir-19b-1-3p
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>Chrysemys-mir-19b-2-3p
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>Chrysemys-mir-19b-2-5p
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>Chrysemys-mir-20a_pre
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>Chrysemys-mir-21-3p

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>Chrysemys-mir-30c-1_pre
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>Chrysemys-mir-34c-5p

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>Chrysemys-mir-34c-3p

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>Chrysemys-mir-92a-1_pre

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>Chrysemys-mir-92a-1-5p

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>Chrysemys-mir-92a-2_pre

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>Chrysemys-mir-92a-2-5p

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>Chrysemys-mir-92b-3p

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>Chrysemys-mir-92c_pre

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>Chrysemys-mir-92c-3p

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>Chrysemys-mir-93-3p

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>Chrysemys-mir-96-5p

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>Chrysemys-mir-98_pre

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>Chrysemys-mir-98-3p
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>Chrysemys-mir-99a_pre
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>Chrysemys-mir-99a-3p
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>Chrysemys-mir-107_pre
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>Chrysemys-mir-130c-5p

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>Chrysemys-mir-135-3_pre
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>Chrysemys-mir-138_pre
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>Chrysemys-mir-139-3p
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>Chrysemys-mir-142-5p
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>Chrysemys-mir-143_pre
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>Chrysemys-mir-143-5p
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>Chrysemys-mir-183_pre

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>Chrysemys-mir-193a-3p
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>Chrysemys-mir-193b_pre
TTGTGGTTCCAGAGTCGGGGTTTTGGGGGCGAGATGAGCTTATGTTTTATCCAACCTGGCCCACAAAGTCCCAGTTTTGGTGGTCACT
>Chrysemys-mir-193b-3p
AACTGGCCCACAAAGTCCCAGT

>Chrysemys-mir-194-1_pre
CAGTGTATCAGATGTAACAGCAACTCCATGTGGACTACACTGACTTCCAGTGGAGATGCTGTTACTTTTGGATATCTACTGAC
>Chrysemys-mir-194-1-5p
TGTAACAGCAACTCCATGTGGA
>Chrysemys-mir-194-1-3p

CCAGTGGAGATGCTGTTACTTT

>Chrysemys-mir-194-2_pre

GTGATGCCTATTGGATGTAACAGCAACTCCATGTGGAAGGTTTTTCATCCCTTTTCCAGTGGGGCTGCTGTTATTTTTGATAGGCTGTCAG

>Chrysemys-mir-194-2-5p

TGTAACAGCAACTCCATGTGGA

>Chrysemys-mir-194-2-3p

CCAGTGGGGCTGCTGTTATTT

>Chrysemys-mir-196-1_pre

GAACTAGAACTGCTTTGTGAATTAGGTAGTTTTTCATGTTGTTGGGGTTTTATTTTTTAAACACAAGAACATAAAAACTACCTGATTTACTCCAGTTATT

>Chrysemys-mir-196-1-5p

TAGGTAGTTTTTCATGTTGTTGGG

>Chrysemys-mir-196-1-3p

CAAGAACATAAAAACTACCTGA

>Chrysemys-mir-196-2_pre

TGCAGCTGATCTGTGGTTTTAGGTAGTTTTTCATGTTGTTGGGATTGGCTTTTAGCTCGGCAACAAGAACTGCCTTAATTACGTCAGTTAGTCT

>Chrysemys-mir-196-2-5p

TAGGTAGTTTTTCATGTTGTTGGG

>Chrysemys-mir-196-2-3p

TCGGCAACAAGAACTGCCTTA

>Chrysemys-mir-196-3_pre

CTGAGAACTGTTCTGTAGTTTTAGGTAGTTTTTCATGTTGTTGGGGCTCCACCTTTCTCTCTGCAGCACGAACTGCCTTAATTACTTCAGTTGAAATC

>Chrysemys-mir-196-3-5p

TAGGTAGTTTTTCATGTTGTTGGG

>Chrysemys-mir-199-1_pre

CCAGCCCAGCCTGCCAGTGTTCAGACTACCTGTTTCAGGAGGCTATCAAGGTGTACAGTAGTCTGCACATTGGTTAGATTGGGTTTTGGT

>Chrysemys-mir-199-1-5p

CCCAGTGTTCAGACTACCTG

>Chrysemys-mir-199-1-3p

ACAGTAGTCTGCACATTGGTTA

>Chrysemys-mir-199-2_pre

GATCCTGCTCCGTCGCCAGTGTTCAGACTACCTGTTTCAGGACAATGCTGTTGTACAGTAGTCTGCACATTGGTTAGACTGGGCAAGGGAAA

>Chrysemys-mir-199-2-5p

CCCAGTGTTCAGACTACCTG

>Chrysemys-mir-199-2-3p

ACAGTAGTCTGCACATTGGTTA

>Chrysemys-mir-199-3_pre

GCTCCACTCCGTCTGCCAGTGTTCAGACTACCTGTTTCAGGACTACGAGATTGTACAGTAGTCTGCACATTGGTTAGGCTGTGCTGGGA

>Chrysemys-mir-199-3-5p

CCCAGTGTTCAGACTACCTG

>Chrysemys-mir-199-3-3p

ACAGTAGTCTGCACATTGGTTA

>Chrysemys-mir-200a_pre

TATGGTCCTCTGTGGACATCTTACTAGACAGTGTGGATTTTTTTGGATCTACTCTAACACTGTCTGGTAACGATGTTTAAAGGGTGAACCAA

>Chrysemys-mir-200a-3p

TAACACTGTCTGGTAACGATGTT

>Chrysemys-mir-200a-5p

CATCTTACTAGACAGTGTGGA

>Chrysemys-mir-200b_pre

ACCCTGGGATGCCATTACCATCTTACTGGGCAGCATTGGATGTTTTCTGTGTTTTCTAATACTGCCTGGTAATGATGATTATGGTGTCTCGCAC
>Chrysemys-mir-200b-3p
TAATACTGCCTGGTAATGATGAT
>Chrysemys-mir-200b-5p
CATCTTACTGGGCAGCATTGGA

>Chrysemys-mir-202_pre
GCTCGTTGTTCCCTTTTTCTATGCATATACTTCTTTGAGAATTGGAACTAAAGAGGCATAGGGCATGGGAAAATGGGGCGACTGAGG
>Chrysemys-mir-202-5p
TTCCCTATGCATATACTTCTTTG

>Chrysemys-mir-203_pre
GCGGGCAGCCTCCTTGGTGCAGTGGTTCTTAAACAGTTCAACAGTTCTCTAGCATAAATTGTGAAATGTTTAGGACCACTTGACCAGGAAGGCCCGGG
>Chrysemys-mir-203-3p
GTGAAATGTTTAGGACCACTTGA
>Chrysemys-mir-203-5p
AGTGGTTCTTAAACAGTTCAACAG

>Chrysemys-mir-204-1_pre
TCATGTGACCCGTGGACTTCCCTTTGTGCATCCTATGCCTGAGAATATATGAAGGGGGCTGGGAAGGCAAAGGGACGTTCAACTGTCATCACTGGC
>Chrysemys-mir-204-1-5p
TTCCCTTTGTGCATCCTATGCCT
>Chrysemys-mir-204-1-3p
GCTGGGAAGGCAAAGGGACGT

>Chrysemys-mir-204-2_pre
GACCATGTGACCTGTGGGCTTCCCTTTGTGCATCCTATGCCTGGAGTTCATAGTGAGGCAGGGACAGCAAAGGGATGCTCAGTTGTCTGCTC
>Chrysemys-mir-204-2-5p
TTCCCTTTGTGCATCCTATGCCT

>Chrysemys-mir-204-3_pre
CCGGTGCGCCCTGTGAGCTTCCCTTTGTGCATCCTATGCCTGAGAGATGCCTGGAGGCTGGGACGGTGAAGGGAAGCCCACGTGGCTGCCAA
>Chrysemys-mir-204-3-5p
TTCCCTTTGTGCATCCTATGCCT
>Chrysemys-mir-204-3-3p
GCTGGGACGGTGAAGGGAAGC

>Chrysemys-mir-205a_pre
ATCCATGAATTCTGTTGTCTTTCATTCCACCGGAGTCTGTCTCATAACTAATCAGATTTTCAGTGGAGTGAAGCACAAGAGACATGGAG
>Chrysemys-mir-205a-5p
TCCTTCATTCCACCGGAGTCTG
>Chrysemys-mir-205a-3p
GATTTTCAGTGGAGTGAAGCACA

>Chrysemys-mir-205b_pre
TCCATGGCTTGCTGGTGCCTTTCATTCCACCGGAATCTGTAGAGGCAGAAACCAGATTTTCAGTGTAAATGAAGCCCATCAGACATGGAA
>Chrysemys-mir-205b-5p
CCCTTCATTCCACCGGAATCTGT

>Chrysemys-mir-206_pre
TTCTCTTTTGTAGACAACATGCTTCTTTATATCCCCATATGAATTATGCTGCTATGGAATGTAAGGAAGTGTGTGGTTTCAGGGAGATGA
>Chrysemys-mir-206-3p
TGGAATGTAAGGAAGTGTGTGG
>Chrysemys-mir-206-5p
ACATGCTTCTTTATATCCCCAT

>Chrysemys-mir-208_pre

TTCTCTAACAGGGAAGCTTTTGGCTCGGGTTATATTTTCACTCGCGGCGTATAAGACGAGCAAAAAGCTTGTGGTTGGAGGAGA
>Chrysemys-mir-208-5p (predicted)
AAGCTTTTGGCTCGGGTTATAT

>Chrysemys-mir-210_pre
CAGAAGCTGGTGAGCCACTGACTAACGCACATTGTGCTGTTAAAGAATCCACTGTGCGTGTGACAGCGGCTAACCAGCTTTTCGGCC
>Chrysemys-mir-210-3p
CTGTGCGTGTGACAGCGGCTAA
>Chrysemys-mir-210-5p
AGCCACTGACTAACGCACATTG

>Chrysemys-mir-212_pre
GTCAGCGCTCGGCACCTTGGCTCTAGACTGATTACTGCTAAGTAGCATTAAAGAAACAGTAACAGTCTACAGTCATGGCTACTGAAGCATGA
>Chrysemys-mir-212-5p
ACCTTGGCTCTAGACTGATTA

>Chrysemys-mir-214_pre
GGACGGAGTTGTCATGTGTCTGCCTGTCTACACTTGTGTGCAGAACATCCTCTCACCTGTACAGCAGGCACAGACAGGCAGTCACATGACAACCC
>Chrysemys-mir-214-3p
TACAGCAGGCACAGACAGGCAG
>Chrysemys-mir-214-5p
GCCTGTCTACACTTGTGTGC

>Chrysemys-mir-215_pre
GTGTACAGGAAAATGACCTATGAATTGACAGACTGTGTCTTCTAAATTTGTCTGTCACTTCTGTAGGCCAATATTCTGCATGCCTTA
>Chrysemys-mir-215-5p
ATGACCTATGAATTGACAGAC
>Chrysemys-mir-215-3p
CTGTCACTTCTGTAGGCCAATA

>Chrysemys-mir-216a_pre
GGATGGCTGTGAATTGGCTTAATCTCAGCTGGCAACTGTGAGCAATTAATACATTCTCTCACAGTGGTATCTGGGATTATGCTAAACACAGCAATT
>Chrysemys-mir-216a-5p
TAATCTCAGCTGGCAACTGTGA

>Chrysemys-mir-216b_pre
AAGTCATAGACTGGGAAATCTCTGCAGGCAAATGTGATGTATTTATAGCAATCTCACAATTACCTGTAGAGTTTCTGCAATCTG
>Chrysemys-mir-216b-5p
AAATCTCTGCAGGCAAATGTG

>Chrysemys-mir-217_pre
AGTTTTTGTATGTCGAGATACTGCATCAGGAAGTATTGGATAATAATCAGCCACCATCAGTTCCCTAATGCATTGCCTTCAGCATCTATAACAAGCA
>Chrysemys-mir-217-5p
TACTGCATCAGGAAGTATTGG

>Chrysemys-mir-218-1_pre
AGCGAGATTTTCTGTTGTGCTTGATCTAACCATGTGGTTGCAAGGTATGAGTAAAACATGGTTCTGTCAAGCACCATGGAACGTCACGCAGCT
>Chrysemys-mir-218-1-5p
TTGTGCTTGATCTAACCATGTG

>Chrysemys-mir-218-2_pre
TGGGGTTTTCTTTGTGCTTGATCTAACCATGTGGTAGAACAATACAAATTTGAACATGGTTCTGTCAAGCACCATGGAAGGCTGCAT
>Chrysemys-mir-218-2-5p
TTGTGCTTGATCTAACCATGTG
>Chrysemys-mir-218-2-3p
AAACATGGTTCTGTCAAGCAC

>Chrysemys-mir-219-1_pre
CTGAACACCGGCTCCTGATTGTCCAAACGCAATTCTTGTGTCTGCGCCCAAGAATTGAGTGTGGACGTCGTGAGCCGGGGTTTCTCT

>Chrysemys-mir-219-1-3p
AGAATTGTGTCTGGACATCTG

>Chrysemys-mir-219-1-5p
TGATTGTCCAAACGCAATTCTTG

>Chrysemys-mir-219-2_pre
CAGGAATCTCTGCTCCTGATTGTCCAAACGCAATTCTTGTGCAATGGAATCATACAAACCAAGAATTGTGTCTGGACATCTGTGGCAGAGATTTCA

>Chrysemys-mir-219-2-3p
AGAATTGTGTCTGGACATCTG

>Chrysemys-mir-219-2-5p
TGATTGTCCAAACGCAATTCTTG

>Chrysemys-mir-221_pre
CCAGGTTTGGGGCATGAACCTGGCATAACAATGTAGAATTCTGTGTTTTGTTAAGCAACAGCTACATTGTCTGCTGGGTTTCAAGCTGCCTGGA

>Chrysemys-mir-221-5p
ACCTGGCATAACAATGTAGAATT

>Chrysemys-mir-221-3p
AGCTACATTGTCTGCTGGGTTT

>Chrysemys-mir-222a_pre
TGTAGTTGCCTATCAGTCGCTCAGTAGTCAGTGTAGATTCTGTCTTTACAATCAGCAGCTACATCTGGCTACTGGGTCTCTGATGACATCTT

>Chrysemys-mir-222a-3p
AGCTACATCTGGCTACTGGGTCT

>Chrysemys-mir-222a-5p
CGCTCAGTAGTCAGTGTAGATTC

>Chrysemys-mir-222b_pre
GATGCAATTGGCTGCTCAGTAGTCGGTGTAGGATCTGTCTGACATTATTACCAACAGCTACATCTGATTACTGGGTCACTGATAGCATCATCA

>Chrysemys-mir-222b-3p
AGCTACATCTGATTACTGGGTCA

>Chrysemys-mir-222b-5p
TGCTCAGTAGTCGGTGTAGGATC

>Chrysemys-mir-223_pre
TGTCAGTGTGCGCTCCGTGTATTTGACAAGCTGAGTTTGTGACTCAATGTGGCAGAGTGTGAGTTTGTCAAATACCCCAAGTGAAGCATTTGCTT

>Chrysemys-mir-223-3p
TGTCAGTTTGTCAAATACCCCA

>Chrysemys-mir-223-5p
CGTGTATTTGACAAGCTGAGTTT

>Chrysemys-mir-301a_pre
TGCTGCTAACGAATGCTCTGACTTTTATTGCACTACTGTACTTTACAGCTAGCAGTGAATAGTATTGTCAAAGCATCTGAAAGCAGAG

>Chrysemys-mir-301a-3p
CAGTGAATAGTATTGTCAAAGC

>Chrysemys-mir-301b_pre
CTGCTGGTATCGCTGGCTCTGACAATGTTGCACTACTGTCTGCACAAATAAAGCAGTGAATAAATATTGTCAAAGCATTTGGTTCCAGTC

>Chrysemys-mir-301b-3p
CAGTGAATAAATATTGTCAAAGC

>Chrysemys-mir-302a_pre
AGCTTAAAGGACCCCCACTACTTTAATGTGGAAGTACTTGTCTTGTCTCCTGATAAAGTAAGTGTCTCCATGTTTTAGTGATGGTGAAACCTG

>Chrysemys-mir-302a-3p (predicted)
TAAGTGTCTCCATGTTTTAGTG

>Chrysemys-mir-302b_pre
CCCCTTCTACTTTTAACATGGAGGTGCTTTCTGTGACTATAAAAAAGTAAGTGCTTCCATGTTTTAGTAGAGGTGAATCCTGATCT
>Chrysemys-mir-302b-3p
TAAGTGCTTCCATGTTTTAGTAG

>Chrysemys-mir-302c_pre
TTAAAGGACCCCTTTGCTTTAACATGGGGGTACCTGCTGCCTAGAAAAAGTAAGTGCTTCCATGTTTCAGTCGTGGTGG
>Chrysemys-mir-302c_3p (predicted)
TAAGTGCTTCCATGTTTCAGT

>Chrysemys-mir-302d_pre
CCCCTTCTACTTTAACATGGAAGTACTTGTGGATGCTTGAAAAAGTAAGTGCTTCCATGTTTTAGTTGTGGTGAATCCT
>Chrysemys-mir-302d-3p
TAAGTGCTTCCATGTTTTAGTT

>Chrysemys-mir-338a_pre
GCTTCTCCTCCCAACAATATCCTGGTGCTGAGTGAGTTGCACACGGAGACTCCAGCATCAGTGATTTTTGTTGAAGAGGGCGAGC
<Chrysemys-mir-338a-3p
TCCAGCATCAGTGATTTTTGTTGA
>Chrysemys-mir-338a-5p
AACAATATCCTGGTGCTGAGT

>Chrysemys-mir-338b_pre
TGCAAATGTTTTATTTCTGGCAACACTATCCTGATGCTGTGAGATATGTGGTAAAGCTCCAGCATCAGTGATTTTTGTTGTTAGTGGTAAATTCAA
>Chrysemys-mir-338b-3p
TCCAGCATCAGTGATTTTTGTTGT
>Chrysemys-mir-338b-5p
AACACTATCCTGATGCTGTCAGA

>Chrysemys-mir-363_pre
TGTTTTGCTGTTGTGCGGGTGGATCACGATGCAATTTTTGATTAGTTTAGCAGGAGAAAAATTGCACGGTATCCATCTGTAAACCGCAGGACC
>Chrysemys-mir-363-3p
AATTGCACGGTATCCATCTG
>Chrysemys-mir-363-5p
GTGGATCACGATGCAATTTTGA

>Chrysemys-mir-365-1_pre
TACCGCAGGGAAAATGAGGGACTTTTGGGGGCAGATGTGTTTTCCATTACACTATCATAATGCCCTAAAAATCCTTATTACTCTTGCAGTATT
>Chrysemys-mir-365-1-3p
TAATGCCCTAAAAATCCTTA

>Chrysemys-mir-365-2_pre
AGAGGCAGCAAGAAAAATGAGGGACTTTTCCAGGGCAGCTGTGTTTTACTAACCCAGTCATAATGCCCTAAAAATCCTTATTGTTCTTGCAATGTT
>Chrysemys-mir-365-2-3p
TAATGCCCTAAAAATCCTTA
>Chrysemys-mir-365-2-5p
AGGGACTTTTCCAGGGCAGCTGTG

>Chrysemys-mir-367_pre
TCTTAAACTGCAGGCCACTACTGTTGCTAATATGCAACTCTGTTGTGTAAAAGCTGGAATTGCACCTTTAGCAATGGTGATGGACTGTAAGACATAC
>Chrysemys-mir-367-3p (predicted)
AATTGCACCTTTAGCAATGGTG

>Chrysemys-mir-375_pre
AGCAACCTCTGCACCTTGCTGGCGTCGAGCCCCACGTGCAAGACCTGACGTGAACGTTTTGTTTCGTTTCGGCTCGCGTTAGGCAGGTCCAGCCTGTC
>Chrysemys-mir-375-3p
TTTTGTTTCGTTTCGGCTCGCGTTA

>Chrysemys-mir-383_pre
AAGTCACCTGCTCCTCAGATCAGAAGGTGATTGTGGCTTTGAGTAGATATTAAGCAGCCACAGCACTGCCTGGTCAGAAAGAGCAAGTGTACT
>Chrysemys-mir-383-5p
AGATCAGAAGGTGATTGTGGCT

>Chrysemys-mir-425_pre
TGGCGAGAAATTGCTTTGGAATGACACGATCACTCCCCTGAGCAAGCAGCCAGAGCCATCGGGAATATCGTGTCCGTCCAAAGCTTTTTTCGGCA
>Chrysemys-mir-425-5p
AATGACACGATCACTCCCCTGAG
>Chrysemys-mir-425-3p
CCATCGGGAATATCGTGTCCGT

>Chrysemys-mir-429_pre
TGCCTGCTGATTGATGTCTTACCAGACAAAGTTAGATCTAGCTATTTTTCGTCTAATACTGTCTGGTAATGCCGTCCATCGCATTGGCTAA
>Chrysemys-mir-429-3p
TAATACTGTCTGGTAATGCCGT
>Chrysemys-mir-429-5p
NATGACACGATCACTCCCCTGAG

>Chrysemys-mir-449a_pre
GTGTGTGCTAGGAAGGCAGTGTATTGTTAGCTGGTTGAAAATCTGACAGCAGCTAACCTACATCTGCTATCTTATTGCACATACTA
>Chrysemys-mir-449a-5p
AGGCAGTGTATTGTTAGCTGG
>Chrysemys-mir-449a-3p
CAGCTAACCTACATCTGCTATC

>Chrysemys-mir-449b_pre
TGTGTCTGGTAGGCAGTGTACTGTTAGCTGGCTGCTTTGTGTGAATCTAGCAGTCTCTACTACACTGTCACCTGCTGCAGG
>Chrysemys-mir-449b-5p (predicted)
AGGCAGTGTACTGTTAGCTGGCT

>Chrysemys-mir-449c_pre
GATGTGACAGTTTGGCAGTGCCTTGCTAGCTGGCTGTTGAGAACTTGATATATGAACAGTTGCTAGCTGCACTCCACATTGTTGCATTCC
>Chrysemys-mir-449c-5p
TGGCAGTGCCTTGCTAGCTGGCT

>Chrysemys-mir-449d_pre
TGTGTATGTGCTGATTAGGCAGTGTATTGTTAGTTAGCTGTTGTTTCACATACCAGCAACTAAATACGCTTCCACATTAGCACACGACCTTGCAT
>Chrysemys-mir-449d-5p
AGGCAGTGTATTGTTAGTTAGC

>Chrysemys-mir-451_pre
AGCTGAGCCCATGGGGCGTCAATGAAACCGTTACCATTACTGACTTTAGTAATGGTAACGGTTCTACTGCCGCCCCAGCATCCGGCCAGCGA
>Chrysemys-mir-451-5p
AAACCGTTACCATTACTGACTT
>Chrysemys-mir-451-3p
TTAGTAATGGTAACGGTTCT

>Chrysemys-mir-454_pre
CCTTAAGGAAGAGACCCTATCAATATTGCCTCTGCTTTTGTGATCAGGGTAGTAGTGAATATTGCTTATAGGGTCTTTTCTTTGGAGGGT
>Chrysemys-mir-454-3p
TAGTGAATATTGCTTATAGGGTCT
>Chrysemys-mir-454-5p
ACCCTATCAATATTGCCTCTGC

>Chrysemys-mir-455_pre

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TCCCTGGTGTGAGGGTATGTGCCCTTGGACTACATCGTGGAAGCCAGCACCATGCAGTCCATGGGCATATACACTTGCCTCAAGGTTTAT
>Chrysemys-mir-455-5p
TATGTGCCCTTGGACTACATCG
>Chrysemys-mir-455-3p
ATGCAGTCCATGGGCATATAC

>Chrysemys-mir-456_pre
TGTATGTGTGAGCAGGCATCTTTTCAGCCTACATGTGGATTCCCTAAATCTGCAGGCTGGTTAGATGGTTGTCATACGTTTCATCTG
>Chrysemys-mir-456-3p
CAGGCTGGTTAGATGGTTGTC

>Chrysemys-mir-458_pre
TGCATGGTGCAGATGGCAGCGCCATTTTCAGAGCTATAAACAGTATCATTGTCATAGCTCTTTGAATGGTACTGCCATATGTACTGGAGAATCA
>Chrysemys-mir-458-3p
ATAGCTCTTTGAATGGTACTGC
>Chrysemys-mir-458-5p
AGCGCCATTTTCAGAGCTATAA

>Chrysemys-mir-459_pre
ACTGTTTCTTGTAATCAGTAACAAGGATTCATCCTTGTGTATAGTAAATAACAGGGAGAATCTTTGTCACTAAGTACAATTAACAGCTAT
>Chrysemys-mir-459-3p
GGGAGAATCTTTGTCACTAAG
>Chrysemys-mir-459-5p
TCAGTAACAAGGATTCATCCT

>Chrysemys-mir-460a_pre
CTGACTTTATAGAACCTGCATTGTACACACTGTGTGTATTGATTGGACATGCACAGCGCATAACAATGTGGATACTGTAGACGTCAAT
>Chrysemys-mir-460a-5p
CCTGCATTGTACACACTGTGTG
>Chrysemys-mir-460a-3p
CACAGCGCATAACAATGTGGAT

>Chrysemys-mir-460b_pre
TGGCTCTATGTTGTCCTCATTGTACATGCTGTGTGTATTTTTATTACATACACAGCGCATGCAATGTGGACATAATGGAGATCA
>Chrysemys-mir-460b-5p
TCCTCATTGTACATGCTGTGTG

>Chrysemys-mir-489_pre
GTGGTGGCTTGGTGGTTCGTATGTATGACGTCATTTACTTGGACTTTTAGGAGTGACATCATATGTACGGCTGCTAAACTGCTGCATGGGAC
>Chrysemys-mir-489-3p
GTGACATCATATGTACGGCTGCT
>Chrysemys-mir-489-5p
TGGTCGTATGTATGACGTCATT

>Chrysemys-mir-490_pre
TCATAAGTTTCATGGTTTCGACACCATGGATCTCCAGGTGGGTCAAGATTATAGAGATACACCAACCTGGAGGACTCCATGCTGTTGAGCTGTTTACA
>Chrysemys-mir-490-3p
CAACCTGGAGGACTCCATGCTGT
>Chrysemys-mir-490-5p
CCATGGATCTCCAGGTGGGT

>Chrysemys-mir-499_pre
TTGGGAGAGCGGCAGTTAAGACTTGCAGTGATGTTTAGATAATGTATTACATGAACATCACTTTAAGTCTGTGCTACCTCTCTCCTCACTCTGGAC
>Chrysemys-mir-499-5p
TTAAGACTTGCAGTGATGTTTA
>Chrysemys-mir-499-3p
AACATCACTTTAAGTCTGTGCT
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>Chrysemys-miR-551-1_pre
TTTCCTGTATATGACCTTGGAAATCAAGAATGGGTGGAGCCTGTTGAATTAATTTCTAGGCGACCCATACTTGGTTTCAAGGGTCAGCAGGGAA
>Chrysemys-miR-551-1-3p
GCGACCCATACTTGGTTTCAG
>Chrysemys-miR-551-1-5p
GAAATCAAGAATGGGTGGAGCCT

>Chrysemys-mir-551-2_pre
CCTCCATGGCTCCAGAAATCAAGGGTGGGTGAGACCTCGTAAGAAAACGTGAAGGCGACCCATACTTGGTTTTCAGGGGCTGTGAGGA
>Chrysemys-mir-551-2-3p
GCGACCCATACTTGGTTTCAG

>Chrysemys-mir-599_pre
ATACTGTCAATAGTGTGTTTGGATAACCTGATGTGGGACAGGAGTTCTTTTCACTGTTGTGTGTCAGTTTATCAAACCTGGAAGCCCCTGC
>Chrysemys-mir-599-3p (predicted)
GTTGTGTCAGTTTATCAAACCC

>Chrysemys-mir-726_pre
TGGGGCGTTCACCAGGAATTCGCTAGTTCTGAACTATTTACACTTGAAAAAGTTCACTACTAGCAGAACTCGGGTGCGCGCCCCC
>Chrysemys-mir-726-3p
TTCCTACTAGCAGAACTCG

>Chrysemys-mir-727_pre
TTGCCCTGTATGTCATTTTTTTCAGTCTTCAATTCCTCCCAGCCCATTAATGGAAAGTTGAGGCGAGTTGAAGACTAAAAATGCTGTGCAGAATCA
>Chrysemys-mir-727-3p
TTGAGGCGAGTTGAAGACTAAA

>Chrysemys-mir-737_pre
CTACTCTGCTGTTATTTTTTTAGGTTTTGATTTTTTATTACATCTTCATGCGAAAAATCAAACCTAAAGAAAAATGCTGCAAAGATAGAT
>Chrysemys-mir-737-5p
ATTTTTTTTAGGTTTTGATTTTT

>Chrysemys-mir-875_pre
GTTTGTAGTGGTACAATACCTCAGTCTTATCAGGTGTTCTATAAAATTCACCTGCAAAAACTGAGGTTGAGTTTCACTGAAC
>Chrysemys-mir-875-5p
AATACCTCAGTCTTATCAGGT

>Chrysemys-mir-1306_pre
TGAACAGCCTCCACCACCTCCCCTGCAAACGTCCAGTGACGCAGAGGTAATGGACGTTGGCTCTGGTGGTGATGGACAGTCAGAT
>Chrysemys-mir-1306-5p
CCACCTCCCCTGCAAACGTCCA
>Chrysemys-mir-1306-3p
TGGACGTTGGCTCTGGTGGTGAT

>Chrysemys-mir-1329_pre
CAGTCTGGTTGTAGGGATACAGTGATCAGGTTACGAGGGATTTCTCAAGTAACAACCTCGTAGCTCGGTCACGATATCCCTATGACTTAGATAACA
>Chrysemys-mir-1329-5p
TACAGTGATCAGGTTACGAGG

>Chrysemys-mir-1388_pre
GTGAGGGGTGTTTCGAGGACTGTCTAACCTGAGAATGGTGAAACATGAAGGTCAATCTCAGGTTTCGTTCAGCCCATGAGACGCCTTCTCCAGA
>Chrysemys-mir-1388-5p
AGGACTGTCTAACCTGAGAAT
>Chrysemys-mir-1388-3p
ATCTCAGGTTTCGTTCAGCCCAT

>Chrysemys-mir-1397_pre
TGCGATGTGTGCATTGCATTGCGACGGGTTACATCACTGGTCGTAACATGATGTAACCCAACGCAGCATGATGTAAGCGTCGTG

>Chrysemys-mir-1397-5p
TGCATTGCGACGGGTTACATCA

>Chrysemys-mir-1416_pre
GATGGATGACACCTCCTTAACTCATGCCGCTGTGCCTTTTACCCCCACTCCCACAATTGTATGAGTTGAGTACAGAGTATCAGACT

>Chrysemys-mir-1416-5p (predicted)
TCCTTAACTCATGCCGCTGTG

>Chrysemys-mir-1641_pre
AGGGCATTTCCTGGGGATTAATGACTGTCTGGGGTCATCATCTCCTCCCAGTTAGTTATTAGTCCCCCAGGAAATACTGTGTGCCTT

>Chrysemys-mir-1641-5p (predicted)
TGGGGATTAATGACTGTCTGGG

>Chrysemys-mir-1662_pre
TGTGCTCTATGGGTTTGACATCATCATACTTGAGATGTATGACACAAAGTCCCAAGCAGGCTGATGTCAGGCCCAAGATGGCTG

>Chrysemys-mir-1662-5p
TTGACATCATCATACTTGAGAT

>Chrysemys-mir-1662-3p
CCCAAGCAGGCTGATGTCAGG

>Chrysemys-mir-1677a_pre
GTCTGGATGGGGCCTGATTTCAGATCCCATTGAAGTCAATGAGAATATTTTCATTTGAGCTACTGACTTCAGTGGGCTTTGGTTTCAGACCCACAGTCA

>Chrysemys-mir-1677a-5p
TCAGATCCCATTGAAGTCAATGG

>Chrysemys-mir-1677a-3p
CTGACTTCAGTGGGCTTTGGTT

>Chrysemys-mir-1677b_pre
AGCAACTAAGAGCCTGGTCCAGAGCCCATTGAAGTCAGTGGGAGATGTTCTAATGACTCCAGAGGGCTTTGGATCAGGCCCTAAGTTAATCCAC

>Chrysemys-mir-1677b-5p
TCCAGAGCCCATTGAAGTCAGT

>Chrysemys-mir-1677b-3p
TGACTCCAGAGGGCTTTGGATC

>Chrysemys-mir-1677c_pre
CCTCTTCAAGGCCTAATCCAGAGCCCATTGAAGTCAGTGGGAATCTTTCTATTGACTTCAGTGGGCTTTGGATCAGGCCCTTGGGAGCT

>Chrysemys-mir-1677c-5p
TCCAGAGCCCATTGAAGTCAGT

>Chrysemys-mir-1677c-3p
ATTGACTTCAGTGGGCTTTGGA

>Chrysemys-mir-1677d_pre
GTGTTTTGTGGCCTGATCCAAAGCCCATTGAAGTCAACTGAAGTTTTTGTACTGACTTCAGGTGCTTTGAATCAAATCCCCTATTACAGT

>Chrysemys-mir-1677d-5p
TGATCCAAAGCCCATTGAAGTCA

>Chrysemys-mir-1677d-3p
ACTTCAGGTGCTTTGAATCA

>Chrysemys-mir-1677e_pre
AATGCTCCCTCTAGGCTCTGATCCAAACCCATTGAAATCAAAGGAAAAATTCCAATGGGCTTTGAATCAGGTCTGAGTGATGCCTCA

>Chrysemys-mir-1677e-5p
TCTGATCCAAACCCATTGAAAA

>Chrysemys-mir-1677e-3p
TTCCAATGGGCTTTGAATCAGGT

>Chrysemys-mir-1677f_pre
TACTGTGATACCAATAAATGACCATGTGAAGTTGATGGGAGTCTTTCCATTGACTTCAGTGGGCTTTGGATCAGGTCTGTGTTGGTAAGGGGGAA
>Chrysemys-mir-1677f-3p
ATTGACTTCAGTGGGCTTTGGA

>Chrysemys-mir-1677g-1_pre
CACTTAGTCTGAAGGTGAAATCCTGGCTCTGTTGATGTCTATAGAAGTTTTACCATTGACTTCAGTAGAATCAGGATTTCTCCCTCATGAGTGT
>Chrysemys-mir-1677g-2_pre
GTATAGCTGTTGAGCTGAATCCTGGTTCCACTGAAATAATGGTAGTTTTGTGCGTTGACTTCAGTAGAATCAGGATTTGGCTCATAATTAGCTGTG
>Chrysemys-mir-1677g-3p
TGACTTCAGTAGAATCAGGATT

>Chrysemys-mir-1677h_pre
TCTGGGGCTCAACTGCTCTCCCAATTAAGTCAGTTGGACTTTTTGATTTTTGACTAAATTTGGGAGAAGGGTTGAGTCTCTG
>Chrysemys-mir-1677h-5p
AACTGCTCTCCCAATTAAGTCA
>Chrysemys-mir-1677h-3p
ACTAAATTTGGGAGAAGGGTTGA

>Chrysemys-mir-1720_pre
TTCTGATCACCTCAGTTGTTGCTTTTTGTGAGGATCTCAAGAGAAAGCAATGAGAGGGTGGGTCTGAAACCCA
>Chrysemys-mir-1720-3p (predicted)
AAGCAATGAGAGGGTGGGTCTGA

>Chrysemys-mir-1784_pre
ATTTCTTAGGGCCCAATTCTGCTCTCATTCAAATCAATGAGAGTTCTACCATTGACTTAACTGGGAGCACAAATTTGGGACCTAAGA
>Chrysemys-mir-1784-3p (predicted)
TGACTTAACTGGGAGCACAAAT

>Chrysemys-mir-1788_pre
CCCTCTGTGTGTCGGGCTTGTTTTTAGTTGCCTGCGGTTGGTTAGAAGGACTCAGGCAGCTAAAGCAAGTCTGGGACGCGGAGGAGAAC
>Chrysemys-mir-1788-5p
GGCTTGTTTTAGTTGCCTGC
>Chrysemys-mir-1788-3p
CAGGCAGCTAAAGCAAGTCTG

>Chrysemys-mir-1791_pre
TGCACCATGTTGGGCTGCATCAGTCATGCCATGTTATGAAACCTAACACGATGTGACTGATGCAGGCTGACATGA
>Chrysemys-mir-1791-5p (predicted)
TGGGCTGCATCAGTCATGCCAT

>Chrysemys-mir-1805_pre
AGTGGAATATTCTGGGAGTTGTAGTCTTTCAAACAGAGCTCTGCAAGTATATACCTGTATTGGAACACTACAGCTCCCCGAACTTCTTAGTGTC
>Chrysemys-mir-1805-5p
AGTTGTAGTCTTTCAAACAGA
>Chrysemys-mir-1805-3p
TGTATTGGAACACTACAGCTC

>Chrysemys-mir-2184_pre
GCCCTTGGGTTTCCCCAAACAGTAAGAGTTTTATGTGCGGTGAGAGCTAGAATCTGCATGTGGACTCCTACTGCTCCGGGAGGCTGGAAGTACCA
>Chrysemys-mir-2184-5p
AACAGTAAGAGTTTTATGTGCGG
>Chrysemys-mir-2184-3p
GCATGTGGACTCCTACTGCTCC

>Chrysemys-mir-2188_pre
AATATCAAACCTGTGGGAAAGGTCCAACCTCACATGTCTGTATGTAATAAAGGGGATGTATGTGGTCAGACCTATCCCACAGGCCCTGTATTCTT

>Chrysemys-mir-2188-5p
AAGGTCCAACCTCACATGTCCT
>Chrysemys-mir-2188-3p
GATGTATGTGGTCAGACCTAT

>Chrysemys-mir-2970_pre
GGTCTCTTCCTGTCACTGCAGACAGTCAGTAGTTGGTCTGGCGAGAGCAGGAATTCTCAGATCACCTCTTGGCTGTGAGTGGTGGTGCAGAGAACA
>Chrysemys-mir-2970-5p
GACAGTCAGTAGTTGGTCTG
>Chrysemys-mir-2970-3p
TCAGATCACCTCTTGGCTGTGAG

>Chrysemys-mir-2984_pre
CTACAGCAGATCCTGTTGAGAGTAAAACTAACAAAGGATCATGCAATCCCAGGCAATTTCACTCACAGCAGGCATTGTAAGTAAAGCA
>Chrysemys-mir-2984-3p (predicted)
AATTTCACTCACAGCAGGCATT

>Chrysemys-mir-3064_pre
TTTATTTTTGATTTGGCTGTTGTGGTGTGCAAACTTTGTACATTGCTTTTTTGCCACACTGCAACACTTTACAGATGTGGAAGATGTG
>Chrysemys-3064-3p (predicted)
TGCCACACTGCAACACTTTAC

>Chrysemys-mir-3618_pre
GAATGCATTGTGATTTCCAATAATTGAGACAGTGATTCTGAAAGCTGTCTACATTAATGAAAAGAACAATGTAGTCA
>Chrysemys-mir-3618-3p (predicted)
TGTCTACATTAATGAAAAGAAC

>Chrysemys-novel-1_pre
TTGTTCTGTCTCTGTTTTGGGACACAAGCAGAGCATCTGCATGACCTTCTCTACCTCATGCTCTGCCTGTGTCCCAAAATAGGCAGAACATC
>Chrysemys-novel-1-5p
TGGGACACAAGCAGAGCATCTG
>Chrysemys-novel-1-3p
CATGCTCTGCCTGTGTCCAAA

>Chrysemys-novel-2_pre
TGTGGTAGTGATGGTGAAAGTGCTAGCGTAGAAACGGCAGATGCTTTTCATGCTCTCTTTGCTAGCGCTTCCACCAAGGTTACCACT
>Chrysemys-novel-2-5p
AAAGTGCTAGCGTAGAAACGG
>Chrysemys-novel-2-3p
CTCTCTTTGCTAGCGCTTCCA

>Chrysemys-novel-3_pre
TCTGGAGCTGATCCTGAAGCCCTTACTCACATGAGCAGTCCCACATAAGTCCTCAAGGTGAGTAAGGGCTGCGAGATTGGACCCCTAAATACC
>Chrysemys-novel-3-5p
AAGCCCTTACTCACATGAGCA
>Chrysemys-novel-3-3p
CTCAAGGTGAGTAAGGGCTGCG

>Chrysemys-novel-6_pre
TCTGTGGGTATGCATACGCTATGGGGACAATACTGGCATAGCTTTAGCACCCCTAGCTATGCCGGCATAGCCCCATGGTGTGTAGACTCACCAA
>Chrysemys-novel-6-5p
TATGGGGACAATACTGGCATAG
>Chrysemys-novel-6-3p
TATGCCGGCATAGCCCCATGGT

>Chrysemys-novel-7_pre
TTCCGGGGCCAGCGCTCGGCTGGCGTACGTTGGCGTTGCTCCATTGAAGCCAGCAGCTACGCCGACGTGAGCCAGCTGATGCTCTGGCCCTCGG

>Chrysemys-novel-7-5p
GGCTGGCGTACGTTGGCGTTGC
>Chrysemys-novel-7-3p
TACGCCGACGTGAGCCAGCTGA

>Chrysemys-novel-9_pre
GCATTGCCCTGCATCTTGTGTAGTTCTTTTAGCATTTTCTACCCATTTTGCACAGATGTAAATAACTACACAAGGTGCAGGGCAGTGGAAAGTG
>Chrysemys-novel-9-5p
TCTTGTGTAGTTCTTTAGCAT
>Chrysemys-novel-9-3p
GTAAATAACTACACAAGGTGC

>Chrysemys-novel-10_pre
GGATGGATGGGAGCCAGCAGTCGGAGAAGAAGAGACGGTGACTAACCTCCGTAACCTTGTTCCTTCGAGATGTTGCTCACGTCCAGTC
>Chrysemys-novel-10-5p
CAGCAGTCGGAGAAGAAGAGACG
>Chrysemys-novel-10-3p
TAACTTGTTCCTTCGAGATGTTGC

>Chrysemys-novel-11_pre
AACCATCTAGAGAGCTGTGACTGTTTAGATGGTCGTGTGGGGTATGCGCACACAGCCTCAGCAGTCACTGCTTTTTTAGATGTTT
>Chrysemys-novel-11-5p
CTGTGACTGTTTAGATGGTCGTG
>Chrysemys-novel-11-3p
CAGCCTCAGCAGTCACTGCT

>Chrysemys-novel-12_pre
CTCCGGAGTTGGGGCACCAGTCGTTGGCGACTCAGGCTCCTCCATGGGAGCAGTACCCTGAGTCGCCAACAAATCGGTGCCTCAACTCGGAGACCT
>Chrysemys-novel-12-5p
CACCAGTCGTTGGCGACTCAGG
>Chrysemys-novel-12-3p
TGAGTCGCCAACAAATCGGTGCC

>Chrysemys-novel-13_pre
GAGACTTGGGCCTTGATCCTGCCATGATCTCTGCAGAAACAAACCCTTGTGGAGCTCATTGCAGGACTGGGACCTTAGTTTTT
>Chrysemys-novel-13-5p
TTGATCCTGCCATGATCTCTGCA
>Chrysemys-novel-13-3p
TGGAGCTCATTGCAGGACTGGG

>Chrysemys-novel-14_pre
TGCATCCGGCCATCCCTCTTACAGCAAAGCACCGAAGCACACGCATCACCTAAAGCGCATGCGTCGGTGCTGCTCAGAAGAGTGGCGGACTGCT
>Chrysemys-novel-14-5p
CAGCAAAGCACCGAAGCACACG
>Chrysemys-novel-14-3p
GCATGCGTCGGTGCTGCTCAGA

>Chrysemys-novel-16_pre
AAAGTTCAAGACTATAACCCTCAGATGTGTCTACTAGTCTGGGCTCAATCACAGATTAGGGGCAACATCTGGGCTAGAGCCTGAGCTAATTC
>Chrysemys-novel-16-5p
CCTCAGATGTGTCTACTAGTCT
>Chrysemys-novel-16-3p
ATTAGGGGCAACATCTGGGCTA

>Chrysemys-novel-19_pre
CTGCAGGCCAGATTCTGCCCTCATTTATACTTGTGTCTTCAATGGGTTTACACAGGTGGAACCGAGGGCAGAATTTAGCCCTGCAA
>Chrysemys-novel-19-5p

TGCCCTCATTTATACTTGTGT
>Chrysemys-novel-19-3p
ACAGGTGGAACCGAGGGCAG

>Chrysemys-novel-20_pre
TGGGCTGATGTGCAGTGGTGTGAGAACCTGCAGTTCCCATTAACCTTTAGTGAAATCTGGAGATGCTCAGCACTTCTGAACAACAGATCAC
>Chrysemys-novel-20-5p
AGTGGTGCTGAGAACCTGCAGT
>Chrysemys-novel-20-3p
CTGGAGATGCTCAGCACTTCTGA

>Chrysemys-novel-21_pre
AGAGTGTGCGCCCTGATCTTGTAATTGGCTTCACATAGGTGTAAGGGACTGCCTAAGTGGAACCAATTATCGAATCAGTGCCTCAGTACTTA
>Chrysemys-novel-21-5p
CTTGTAATTGGCTTCACATAGGT
>Chrysemys-novel-21-3p
TAAGTGGAACCAATTATCGAAT

>Chrysemys-novel-22_pre
AGGAGTCTGATCCTGCTGACCTTATTCAGACAAAGCTCTTTTTGATTCCAGTAGGATTTTGCCTGAGTAGGGACTGCAGGGTTTGGCCCAC
>Chrysemys-novel-22-5p
GACCTTATTCAGACAAAGCTCT
>Chrysemys-novel-22-3p
ATTTTGCCTGAGTAGGGACTGC

>Chrysemys-novel-24_pre
TCTGGCCTCGGTTACGCTGGTGTAAATCTGGAGTGGATCCCCTGACTTCAGTGGCGTCACTCCGCATTTACATTGCTGTGACTGAGAGCACAAC
>Chrysemys-novel-24-5p
TGGTGTAAATCTGGAGTGGATC
>Chrysemys-novel-24-3p
CGTCACTCCGCATTTACATTGCT

>Chrysemys-novel-25_pre
TTAGGCCATATCCTCAGACAGTGTAAATCGGCATAGCGCTTTTAACTTCAGTGGATCTGTGCTAATTTACATCTGCCGAGGACCTGGCCCAT
>Chrysemys-novel-25-5p
ACAGTGTAAATCGGCATAGCGC
>Chrysemys-novel-25-3p
TCTGTGCTAATTTACATCTGCCG

>Chrysemys-novel-26_pre
CTGCTCTCCTGGCACTCTGCTACACAGCCAGAGCGTCCGTGAGCCACAAGTGGATGTCCC GGCTGTGAGTAGCGTGCAGGGAATGGAGGAAG
>Chrysemys-novel-26-5p
TCTGCTACACAGCCAGAGCGTC
>Chrysemys-novel-26-3p
TGTCCC GGCTGTGAGTAGCGT

>Chrysemys-novel-27_pre
AAGAAGTAACGCTTCTGCTAGTTCCAGCGCAGTCCAGCATGATTAGAAGGGTACTGGACTGGGCTACAAC TAGAAGGAAGTGTGCTGCTT
>Chrysemys-novel-27-5p
TGCTAGTTCCAGCGCAGTCCAG
>Chrysemys-novel-27-3p
CTGGGCTACAAC TAGAAGGAAG

>Chrysemys-novel-29_pre
CTTGGGCCCAGATCCTAAGACGTATTTAGATGCTTAACATTAGATAACCTAAATATCTTTTCAGGATCTGGGCCCTGA
>Chrysemys-novel-29-5p
AGATCCTAAGACGTATTTAGA

>Chrysemys-novel-29-3p
TAAATATCTTTCAGGATCTGG

>Alligator-let-7a-1_pre
GTGGGATGAGGTAGTAGGTTGTATAGTTTTAGGGTCATACCCACAACCTGGGAGATAACTATAACAATCTACTGTCTTTTCCTAAAGCA

>Alligator-let-7a-1-5p
TGAGGTAGTAGGTTGTATAGTT

>Alligator-let-7a-1-3p
CTATAACAATCTACTGTCTTT

>Alligator-let-7a-2_pre
ACTGCATGCATCCAGGTTGAGGTAGTAGGTTGTATAGTTTTAGAATGACACCAAGGGAGATAACTGTACAACCTCCTAGCTTTTCCTTGGGTCTTGCA

>Alligator-let-7a-2-5p
TGAGGTAGTAGGTTGTATAGTT

>Alligator-let-7a-2-3p
CTGTACAACCTCCTAGCTTTCC

>Alligator-let-7a-3_pre
TCCTTTGGGGTGAGGTAGTAGGTTGTATAGTTTTAGGGTTATACCCTGCCTGTGAGATAACTATAACAATCTACTGTCTTTTCCTGAAGTGGC

>Alligator-let-7a-3-5p
TGAGGTAGTAGGTTGTATAGTT

>Alligator-let-7a-3-3p
CTATAACAATCTACTGTCTTT

>Alligator-let-7a-4_pre
TGGAGGTGAGGTAGTAGGTTGTATAGTTTTGGTGGGAGGGATTTTCATCCCATTTTCAGGTGATAACTATAACAGTCTATTGCCTTCCTTGAAGAG

>Alligator-let-7a-4-5p
TGAGGTAGTAGGTTGTATAGTT

>Alligator-let-7a-4-3p
CTATACAGTCTATTGCCTTC

>Alligator-let-7b_pre
GCTCTGGCAGGATGAGGTAGTAGGTTGTGTGGTTTTAGGGTAGTGATTTTTGCCCAATCAGGAGATAACTATAACAACCTACTGCCTTCCCTG

>Alligator-let-7b-5p
TGAGGTAGTAGGTTGTGTGGTT

>Alligator-let-7b-3p
CTATAACAACCTACTGCCTTCCC

>Alligator-let-7c-1_pre
TGTGTGCATCCGGGTTGAGGTAGTAGGTTGTATGGTTTTAGAGTTACACCCTGGGAGTTAACTGTACAACCTTCTAGCTTTTCCTTGGAGCACACT

>Alligator-let-7c-1-5p
TGAGGTAGTAGGTTGTATGGTT

>Alligator-let-7c-1-3p
CTGTACAACCTTCTAGCTTTCC

>Alligator-let-7c-2_pre
GGGTGGGGGCCGGGTTGAGGTAGTAGGTTGTATGGTTTTAGAGTACACCCCCGGAGATAACTGTACAGCCTCCTAGCTTTCCCCGCGCCCCCA

>Alligator-let-7c-2-5p
TGAGGTAGTAGGTTGTATGGTT

>Alligator-let-7c-2-3p
CTGTACAGCCTCCTAGCTTTCC

>Alligator-let-7d_pre
TAGGAAGAGGTAGTAGGTTGCATAGTTTTAGGGCAGGGATTTTTGCTCACACGGAGTTAACTATAACAACCTGCTGCCTTTCTTAGGGC

>Alligator-let-7d-5p
AGAGGTAGTAGGTTGCATAG

>Alligator-let-7d-3p
CTATAACAACCTGCTGCCTTTC

>Alligator-let-7e_pre

GTCCTTGAGGCTGAGGTAGTAGATTGAATAGTTGTGGAGTCCTACCCTCCCTTTGAGCTAACTATAACAATCTACTGTCTTTCCCTAAGGAGAC
>Alligator-let-7e-5p
TGAGGTAGTAGATTGAATAGTT
>Alligator-let-7e-3p
CTATAACAATCTACTGTCTTT

>Alligator-let-7f-1_pre
CCGGGCGGCGTGGGCTGAGGTAGTAGATTGTATAGTTCTGGGTACACCCGCGCGGAGATAACTATACAGCCTACTGTCTTTCCCTGCGCTGTTCCC
>Alligator-let-7f-1-5p
TGAGGTAGTAGATTGTATAGT

>Alligator-let-7f-2_pre
TATCAGAGTGAGGTAGTAGATTGTATAGTTGTGGGGTAGTTATTTTACCCTGTTTACAGGAGATAACTATAACAATCTATTGCCTTCCCTGAGGA
>Alligator-let-7f-2-5p
TGAGGTAGTAGATTGTATAGT
>Alligator-let-7f-2-3p
CTATAACAATCTATTGCCTTCC

>Alligator-let-7g_pre
GCCTGATTCCAAGCTGAGGTAGTAGTTTGTACAGTTTGGGGTCTATGATACCACCCGGTACAGGAGATTAAGTGTACAGGCCACTGCCTTGCCTG
>Alligator-let-7g-5p
TGAGGTAGTAGTTTGTACAGTT
>Alligator-let-7g-3p
CTGTACAGGCCACTGCCTTGCT

>Alligator-let-7i_pre
CGGTCCTGGCTGAGGTAGTAGTTTGTGCTGTTGGTTCGGGTTGTGACACTGCCCCGTGTGGAGATAACTGCGCAAGCTACTGCCTTGCTAGTGCG
>Alligator-let-7i-5p
TGAGGTAGTAGTTTGTGCTGTA
>Alligator-let-7i-3p
CTGCGCAAGCTACTGCCTTGCTT

>Alligator-mir-1a-1_pre
GAAACTACCTGCTTGAGAGACATACTTCTTTTATATGCCCATATGAACCTGGCAAGCTATGGAATGTAAAGAAGTATGTATTTTTCAGGTGGGGATCAT
>Alligator-mir-1a-1-3p
TGGAATGTAAAGAAGTATGTA
>Alligator-mir-1a-1-5p
ACATACTTCTTTATATGCCCATAT

>Alligator-mir-1a-2_pre
ACCTGCCCAGAGTACATACTTCTTTTATGTACCCATATGAACATACAATGCTATGGAATGTAAAGAAGTATGTATTTTTTGGCAGGCAC
>Alligator-mir-1a-2-3p
TGGAATGTAAAGAAGTATGTAT
>Alligator-mir-1a-2-5p
ACATACTTCTTTATGTACCCATA

>Alligator-mir-1b_pre
TCCCTCCCAACCCTACATACTTCTTTCATATGCCCATATGGAGTCGGCTGGTATTATGGAATGTTAAGAAGTATGTATCTTTGGGCTGGGAC
>Alligator-mir-1b-3p
TGGAATGTTAAGAAGTATGTAT
>Alligator-mir-1b-5p
TACATACTTCTTTCATATGCCCA

>Alligator-mir-7a-1_pre
TGGTCTAGTTCTGTGTGGAAGACTAGTGATTTTGTGTTTTTAGATAACTAAATCGACAACAAATCGCAGTCTGCCATATGGCACAGACCA
>Alligator-mir-7a-1-5p
TGGAAGACTAGTGATTTTGTGTT

>Alligator-mir-7a-1-3p
AACAAATCGCAGTCTGCCATAT

>Alligator-mir-7a-2_pre
CCTGACCCTGTATGGAAGACTAGTGATTTTGTGTTCTATGGCTCATCTCACGACAACAAGTCACAGTCTGCCTTATGGTGCATGGCCT
>Alligator-mir-7a-2-5p
TGGAAGACTAGTGATTTTGTGTTGT
>Alligator-mir-7a-2-3p
CAACAAGTCACAGTCTGCCTTT

>Alligator-mir-7a-3_pre
GTCGTCTGGCTCTGCGTGGAAGACTAGTGATTTTGTGTTCTGACTTATAAAGGTGACAACAAATCATAGCCTGCCATACAGCACAGACTCGCA
>Alligator-mir-7a-3-5p
TGGAAGACTAGTGATTTTGTGTTGT

>Alligator-mir-7b_pre
GCCTGGGTCGGTCTGGAAGACTTGTGATTTTGTGTTTCTGGTGTCAAGGAAGCGAACAACAAATCCCAGTCTCCTCACAGCCCCAGGGCCAGTC
>Alligator-mir-7b-5p
TGGAAGACTTGTGATTTTGTGTTGT

>Alligator-mir-9-1_pre
GGGTTGGTTGTTATCTTTGGTTATCTAGCTGTATGAGTGGTGTCAATTCTTCATAAAGCTAGATAACCGAAAGTAAAAATAACCCCAT
>Alligator-mir-9-1-5p
TCTTTGGTTATCTAGCTGTATG
>Alligator-mir-9-1-3p
TAAAGCTAGATAACCGAAAGT

>Alligator-mir-9-2_pre
GAAGCGAGTTGTTATCTTTGGTTATCTAGCTGTATGAGTGTGTTTGGTCTTCATAAAGCTAGATAACCGAAAGTAAAAACTCCTTCA
>Alligator-mir-9-2-5p
TCTTTGGTTATCTAGCTGTATG
>Alligator-mir-9-2-3p
TAAAGCTAGATAACCGAAAGT

>Alligator-mir-9-3_pre
AGGGCTGTTTCTGTCTTTGGTTATCTAGCTGTATGAGTGTGTTCTCGAGCCGTCATAAAGCTAGATAACCGAAAGTAGAAATGACTT
>Alligator-mir-9-3-5p
TCTTTGGTTATCTAGCTGTATG
>Alligator-mir-9-3-3p
TAAAGCTAGATAACCGAAAGT

>Alligator-mir-9-4_pre
GTGGGTTTTTGTCTTTGGTTATCTAGCTGTATGAGTGTATGTGATATCATAAAGCTAGACAACCGAATGTAAAAACCGGCTCGC
>Alligator-mir-9-4-5p
TCTTTGGTTATCTAGCTGTATG
>Alligator-mir-9-4-3p
TAAAGCTAGACAACCGAATGT

>Alligator-mir-10a_pre
GTCTTCTATATGTACCCTGTAGATCCGAATTTGTGTAAAGGAAGTTGCGTCACAAATTCGTATCTAGGGGAATATGTAGTTGACACAA
>Alligator-mir-10a-5p
TACCCTGTAGATCCGAATTTGTG
>Alligator-mir-10a-3p
ACAAATTCGTATCTAGGGGAAT

>Alligator-mir-10b_pre
CGTTGTCTATATATACCCTGTAGAACCGAATTTGTGTGGTATTCACATAGTCACAGATTCGATTCCTAGGGGAATATATGGTTCGATGC

>Alligator-mir-10b-5p
TACCCTGTAGAACCGAATTTGT
>Alligator-mir-10b-3p
ACAGATTCGATTCTAGGGGAAT

>Alligator-mir-10c_pre
CACAGTCGCCTATATGTACCCTGTAGAATCGAATTTGTGTGAACATTTTCAGAGTCACAAATTCGTCTCTAGGGGAATATATGGACGATGC
>Alligator-mir-10c-5p
ACCCTGTAGAATCGAATTTGTG
>Alligator-mir-10c-3p
ACAAATTCGTCTCTAGGGGAA

>Alligator-mir-15a_pre
TACCTTGGCCTAACGTAGCAGCACATAATGGTTTGTGGATTTTGTAAAAGGTGCAGGCCATATTGTGCTGCCTCAAAAATAC
>Alligator-mir-15a-5p
TAGCAGCACATAATGGTTTGTG
>Alligator-mir-15a-3p
CAGGCCATATTGTGCTGCCTC

>Alligator-mir-15b_pre
ACCTTAAATTACTCTAGCAGCACATCATGGTTTGCATGATCTTGTAAAGATGCTAATCATTATTTGCTGCTTTAGGAATTTAAGGA
>Alligator-mir-15b-5p
TAGCAGCACATCATGGTTTGTGCA
>Alligator-mir-15b-3p
CTAATCATTATTTGCTGCTTT

>Alligator-mir-15c_pre
CTTTGAGGAGATGTAGCAGCACATCATGGTTTGTAGGGACAAGGAGATACAGACCATTCTGGGCTGCCTCATTACCTCAAGG
>Alligator-mir-15c-5p
TAGCAGCACATCATGGTTTGTGTA
>Alligator-mir-15c-3p
CAGACCATTCTGGGCTGCCTCATT

>Alligator-mir-16a-1_pre
ATGTCAATCGTACCTTAGCAGCACGTAAATATTGGTGTAAAGATTCTGTAAATATCTCCAGTATTAAGTGTGCTGCTGAAGTAAGTTTGGCCT
>Alligator-mir-16a-1-5p
TAGCAGCACGTAAATATTGGTG
>Alligator-mir-16a-1-3p
CCAGTATTAAGTGTGCTGCTGA

>Alligator-mir-16a-2_pre
CTATACTTGTTCGCCCTAGCAGCACGTAAATATTGGTGTATAAAAAGTAAATCAAACCCCAATATTATTGTGCTGCTTAAGCGTGGCAGA
>Alligator-mir-16a-2-5p
TAGCAGCACGTAAATATTGGTG
>Alligator-mir-16a-2-3p
CCAATATTATTGTGCTGCTTAA

>Alligator-mir-16b_pre
TCAGCAGTGCTCTAGCAGCACGTAAATACTGGAGTCGAGGACTGCCTGGCTGCTCTCCAGTATTGCATTGCTGCTTGAGTGAGGCTGG
>Alligator-mir-16b-5p
TAGCAGCACGTAAATACTGGAG
>Alligator-mir-16b-3p
TCTCCAGTATTGCATTGCTGCT

>Alligator-mir-17_pre
GTCAGAGTAATGTCAAAGTGTCTTACAGTGCAGGTAGTGATATATAGAACCCTACTGCAGTGAAGGCACTTGTAGCATTTATAGTGACAA
>Alligator-mir-17-5p

CAAAGTGCTTACAGTGCAGGTAGA
>Alligator-mir-17-3p
CTGCAGTGAAGGCACTTGTAGC

>Alligator-mir-18_pre
GCTTTTTGTTCTAAGGTGCATCTAGTGCAGATAGTGAAGTAGATTAGCATCTACTGCCCTAAGTGCTCCTTCTGGCATAAGAAGTT
>Alligator-mir-18-5p
TAAGGTGCATCTAGTGCAGATAG
>Alligator-mir-18-3p
ACTGCCCTAAGTGCTCCTTCTG

>Alligator-mir-19a_pre
TGCAGACTTCTGTTAGTTTTGCATAGTTGCACTACAAGAAGAATGTAGTTGTGCAAATCTATGCAAAACTGATGGTGGCCTGCT
>Alligator-mir-19a-5p
TGTGCAAATCTATGCAAAACTG

>Alligator-mir-19b_pre
CACTGTTCTCTGGTTAGTTTTGCAGGTTTGCATCCAGCTGTATGATACTCTGCTGTGCAAATCCATGCAAAACTGACTGTGGCAGTG
>Alligator-mir-19b-3p
TGTGCAAATCCATGCAAAACTG
>Alligator-mir-19b-5p
AGTTTTGCAGGTTTGCATCCAGC

>Alligator-mir-20a_pre
GCTCCTGTAGTACTAAAGTGCTTATAGTGCAGGTAGTGTTCAGGAATCTACTGCATTATGAGCACTTAAAGTACTGCTAGC
>Alligator-mir-20a-5p
TAAAGTGCTTATAGTGCAGGTAG
>Alligator-mir-20a-3p
ACTGCATTATGAGCACTTAAAGT

>Alligator-mir-21_pre
CCATCCTGTCGGATAGCTTATCAGACTGATGTTGACTGTTGGATGTCATGGCAACAACAGTCGGTAGGCTGTCTGACATTTTT
>Alligator-mir-21-5p
TAGCTTATCAGACTGATGTTGAC
>Alligator-mir-21-3p
CAACAACAGTCGGTAGGCTGTC

>Alligator-mir-23a_pre
TGCCACAGCCAGCTGGGGTTCCCTGGTGATGCGATTTTTTTTACCCACTGCCCAAAATCACATTGCCAGGGATTTCCAAGTGGCTGCGAGCCC
>Alligator-mir-23a-3p
ATCACATTGCCAGGGATTTCCA

>Alligator-mir-23b_pre
CCCAGTGTGTGGCTGTTTTGGGTTCCCTGGCATGCTGATTTGTGACTTAAAAATAAAAATCACATTGCCAGGGATTTACCACAGAGCCATGACCATGGC
>Alligator-mir-23b-3p
ATCACATTGCCAGGGATTTACCAC
>Alligator-mir-23b-5p
GGGTTCCCTGGCATGCTGATTT

>Alligator-mir-24-1_pre
TGGATGGACCCGTCTCCAGTGCCTACTGAGCTGATATCAGTTCTGATTTTACATACTGGCTCAGTTTCAGCAGGAACAGGAGTCGAGCCCCA
>Alligator-mir-24-1-3p
TGGCTCAGTTTCAGCAGGAACAG
>Alligator-mir-24-1-5p
AGTGCCTACTGAGCTGATATCAGT

>Alligator-mir-24-2_pre

TCTGGGCCCTGCCTCCGGTGCCTACTGAGCTGATACTCAGTTGCTTTGGTTTAAACTGGCTCAGTTCAGCAGGAACAGGAGTCTGGCTCCAGCT
>Alligator-mir-24-2-3p
TGGCTCAGTTCAGCAGGAACAG
>Alligator-mir-24-2-5p
GTGCCTACTGAGCTGATACTCA

>Alligator-mir-26-1_pre
AAGGCTGTTACCTGGTTCAAGTAATCCAGGATAGGCTGTATGCATTGCAGTTGGCCTATTCTTGATTACTTGCCTGGGAGACAGCCACA
>Alligator-mir-26-1-5p
TTCAAGTAATCCAGGATAGGCT
>Alligator-mir-26-1-3p
CCTATTCTTGATTACTTGCCT

>Alligator-mir-26-2_pre
CATGGGGTCACGGCCCGTTCAAGTAATCCAGGATAGGCTGGTGCCAGGCCCGTGGCCTATTCTCGATTACTTGTCTCGGGACGTGGCTGCTGGCA
>Alligator-mir-26-2-5p
TTCAAGTAATCCAGGATAGGCT
>Alligator-mir-26-2-3p
CCTATTCTCGATTACTTGTCTT

>Alligator-mir-27a_pre
GAAGCCAGGGCACAGGGCTTAGCTCACCTGTGAACAGAGTTAGCGTTGCATCATGTTACAGTGGCTAAGTTCCGCTCCTGGTGTCTA
>Alligator-mir-27a-3p
TTCACAGTGGCTAAGTTCCGC
>Alligator-mir-27a-5p
AGGGCTTAGCTCACCTGTGAACA

>Alligator-mir-27b_pre
CCTCTCTGACAAGGTGCAGAGCTTAGCTGATTGGTGAACAGTATTGATTTCCCTTTGTTACAGTGGCTAAGTTCTGCACCTGAAGAGAAGGTG
>Alligator-mir-27b-3p
TTCACAGTGGCTAAGTTCTG
>Alligator-mir-27b-5p
AGAGCTTAGCTGATTGGTGAAC

>Alligator-mir-29a-1_pre
CCCTTTAGAGGATGACTGATTTCTTTTGGTGTTCAGAGTCCATACTATTTTCTAGCACCATTTGAAATCGGTTATAGTGATTGGGGAA
>Alligator-mir-29a-1-3p
TAGCACCATTTGAAATCGGTTA
>Alligator-mir-29a-1-5p
ACTGATTTCTTTTGGTGTTCAGA

>Alligator-mir-29a-2_pre
TCTCTTACACAGGCTGACCGATTTCTCTTGGTGTTCAGAGTCTCAGTGTGTTGTCTAGCACCATTTGAAATCGGTTATGATGTAGGGGGA
>Alligator-mir-29a-2-3p
TAGCACCATTTGAAATCGGTTA
>Alligator-mir-29a-2-5p
TGACCGATTTCTCTTGGTGTTCAG

>Alligator-mir-29b-1_pre
CTCCTTCAGGAAGCTGGTTTCATATGGTGGTTTAGATTTAACTACTTATTGTCTAGCACCATTTGAAATCAGTGTCTTGGAGGAAGAAT
>Alligator-mir-29b-1-5p
NTGGTTTCATATGGTGGTTTAGA
>Alligator-mir-29b-1-3p
TAGCACCATTTGAAATCAGTG

>Alligator-mir-29b-2_pre
TGAGTCTTCTCTGGAAGCTGGTTTCACATGGTGGCTTAGATTTTCCCATCTTTGTATCTAGCACCATTTGAAATCAGTGTCTAGGGGCAAGAAT

>Alligator-mir-29b-2-5p
CTGGTTTTCACATGGTGGCTTAGA

>Alligator-mir-29b-2-3p
TAGCACCATTTGAAATCAGTG

>Alligator-mir-30a_pre
CTGTTGACAGTGAGCGACTGTAAACATCCTCGACTGGAAGCTGTGAAGCAGCAGATGGGGCTTTCAGTCGGATGTTTGCAGCTGCCAACTGCCACA

>Alligator-mir-30a-5p
TGTA AACATCCTCGACTGGAAGCT

>Alligator-mir-30a-3p
CTTTCAGTCGGATGTTTGCAGC

>Alligator-mir-30b_pre
ACTGACTTTTAGTTTCATGTAAACATCCTACACTCAGCTATAACAACCTGGAACGGCTGGGAGGTGGATGTTTACTTCAACTGATTTGAAAAGG

>Alligator-mir-30b-5p
TGTA AACATCCTACACTCAGCT

>Alligator-mir-30b-3p
CTGGGAGGTGGATGTTTACTTC

>Alligator-mir-30c-1_pre
ATCTACCATGCCGTAGCATGTGTAAACATCCTACACTCTCAGCTGTGAACTCAAGGTGGCTGGGAGAGGGTTGTTTACGCCTTCTGCCATGGTCTG

>Alligator-mir-30c-1-5p
TGTA AACATCCTACACTCTCAGC

>Alligator-mir-30c-1-3p
TGGGAGAGGGTTGTTTACGCC

>Alligator-mir-30c-2_pre
GCTCTGAGTGACAGGTATTGTAAACATCCTACACTCTCAGCTGTGGAAAATGAGGAAGCTGGGAGAAGGCTGTTTACTCTCCCTGNCTTAGATAGC

>Alligator-mir-30c-2-5p
TGTA AACATCCTACACTCTCAGC

>Alligator-mir-30c-2-3p
TGGGAGAAGGCTGTTTACTCT

>Alligator-mir-30d_pre
ATGGGAGTCTGTTGTTGTAAACATCCCCGACTGGAAGCTGTAAGAGAAATTTCTAGCTTTCAGTCAGATGTTTGGCTGCCACTGGCTACT

>Alligator-mir-30d-5p
TGTA AACATCCCCGACTGGAAGCT

>Alligator-mir-30d-3p
CTTTCAGTCAGATGTTTGGCTG

>Alligator-mir-30e_pre
CCTGGGCAGTCGATGCTACTGTAAACATCCTTGACTGGAAGCTGTAAGGTGCTAGAAGGAGCTTTCAGTCGGATGTTTACAGCGGCAGGCTGCCAC

>Alligator-mir-30e-5p
TGTA AACATCCTTGACTGGAAGCT

>Alligator-mir-30e-3p
CTTTCAGTCGGATGTTTACAGC

>Alligator-mir-31_pre
CAGAGCTAGAGAGGAGGCAAGATGTTGGCATAGCTGTTGACCTAAGAACCTGCTATGCCAACATCTTGTTCATCTTTCTTGTCTAC

>Alligator-mir-31-5p
AGGCAAGATGTTGGCATAGCTG

>Alligator-mir-31-3p
TGCTATGCCAACATCTTGTTCAT

>Alligator-mir-32_pre
TGCTTGCTCTGGTGGATATATTGCACATTAAGTTGCATGTTGTCACGGCCTCAGTGCAATTTAGTGTGTGCGATATTTTACATGAGTGCAT

>Alligator-mir-32-5p

TATTGCACATTACTAAGTTGCA
>Alligator-mir-32-3p
CAATTTAGTGTGTGCGATATT

>Alligator-mir-33-1_pre
GGGTGACCGCTGTAGTGCATTGTAGTTGCATTGCATGTTCTGGTAGTATCTGTGCAATGTTTCTGCAGTGCAGTATAGAGGCACTCT
>Alligator-mir-33-1-5p
GTGCATTGTAGTTGCATTGCA
>Alligator-mir-33-1-3p
CAATGTTTCTGCAGTGCAGTA

>Alligator-mir-33-2_pre
GCAGTGGCCTCAGCTGTGGTGCATTGTAGTTGCATTGCATGTGTACAGAGGTGTGCAATGCCTCTGCAGTGCAGCCCAGAGGAGGCTCCTCCCAG
>Alligator-mir-33-2-5p
GTGCATTGTAGTTGCATTGCA
>Alligator-mir-33-2-3p
CAATGCCTCTGCAGTGCAGCT

>Alligator-mir-34a_pre
TGTGAGTGTCTTTGGCAGTGTCTTAGCTGGTTGTTGTGAACAATAGACAAGGAAGCAATCAGCAAGTATACTGCCCTAGAAGTGCTGCACA
>Alligator-mir-34a-5p
TGGCAGTGTCTTAGCTGGTTGTT
>Alligator-mir-34a-3p
GCAATCAGCAAGTATACTGCCCT

>Alligator-mir-34b_pre
AGTAGTGTCTTTGGTTTGTAGGCAGTGTAGTTAGCTGATTGTGTGTCAGTCCCTTGGCAATCACTAACTTCACTGCCATCAAAAACAAGGCACAGAAT
>Alligator-mir-34b-5p
AGGCAGTGTAGTTAGCTGATTG
>Alligator-mir-34b-3p
AATCACTAACTTCACTGCCATC

>Alligator-mir-34c_pre
TACCTCAGCCTAGTTGCTAGGCAGTGTAGTTAGCTGATTGCAAAAGGCAACAATCACTAACCACACAGCCAGGTAAAAAGGTCTGTCTTGCA
>Alligator-mir-34c-5p
AGGCAGTGTAGTTAGCTGATTG
>Alligator-mir-34c-3p
AATCACTAACCACACAGCCAG

>Alligator-mir-92a_pre
ACCCCTTTCTACACAGGTTGGGATCAGTTGCAATGCTGTGTGTGTCTGTGGTATTGCACTTGTCCCGGCCTGTTGAGGTTGGTGGGGATA
>Alligator-mir-92a-3p
TATTGCACTTGTCCCGGCCTGT
>Alligator-mir-92a-5p
AGGTTGGGATCAGTTGCAATGCT

>Alligator-mir-92b_pre (incomplete)
TCCGGGGCGGGGAGGGCCGGGATGCGGTGCAGTGTGTGCGTCTCCTACCAATATTGCACT
>Alligator-mir-92b-3p
AGGGCCGGGATGCGGTGCAGTGT

>Alligator-mir-93_pre
CTTGAGCTGCGGTGGCTCCAAAGTGCTGTTTCGTGCAGGTAGTGTGTGCAGCCATCTACTGCCGGGCAGCACTTCCCGAGCCCCCGCAGCCG
>Alligator-mir-93-5p
CAAAGTGCTGTTTCGTGCAGGTAG
>Alligator-mir-93-3p
TACTGCCGGGCAGCACTTCCC

>Alligator-mir-96_pre
GTTCTCTGCTTGGCCATTTTGGCACTAGCACATTTTGGCTTTTGTACGTATACTTTGAGCAATTATGTGTAGTGCCAATATGGGAGGAGATGGAC
>Alligator-mir-96-5p
TTTGGCACTAGCACATTTTGGCT
>Alligator-mir-96-3p
CAATTATGTGTAGTGCCAATAT

>Alligator-mir-98_pre
GGGTGAGGTAGTAAGTTGTATCGTTGGGGGGTCGGGATTGGAGCCCCGGTGTGAGGTAACCTATAACAACCTTACTACTTTCCCT
>Alligator-mir-98-5p
TGAGGTAGTAAGTTGTATCGTT
>Alligator-mir-98-3p
CTATAACAACCTTACTACTTTCC

>Alligator-mir-99a_pre
GTGCCAGTTGGCATAAACCCGTAGATCCGATCTTGTGGTAAAATACACCACACAAGCTCGCTTCTATGGGTCTGTGTCAGTGTGGTTATC
>Alligator-mir-99a-5p
AACCCGTAGATCCGATCTTGTG
>Alligator-mir-99a-3p
CAAGCTCGCTTCTATGGGTCTG

>Alligator-mir-99b_pre
GCCTGCCGGTCGCCATAAACCCGTAGATCCGAACCTTGGGGTCGCTCCTCGTGCAAGCTCGACTCTGTGGGTCTGTGTCGGCCTCGGCCT
>Alligator-mir-99b-5p
AACCCGTAGATCCGAACCTTGGC
>Alligator-mir-99b-3p
CAAGCTCGACTCTGTGGGTCTG

>Alligator-mir-100_pre
TGCCCGTTGCCACAAACCCGTAGATCCGAACCTTGTGGTGATATTCCACACAAGCTTGTATCTATAGGTATGTGTCTTCATGGCAAG
>Alligator-mir-100-5p
AACCCGTAGATCCGAACCTTGTG
>Alligator-mir-100-3p
CAAGCTTGTATCTATAGGTATG

>Alligator-mir-101-1_pre
ACAGGCTGCCCTGGCTCAGTTATCACAGTGCTGATGCTGTCTATTCTAAAGGTACAGTACTGTGATAACTGAAGGATGGCAGCCATCTTAGCTT
>Alligator-mir-101-1-3p
TACAGTACTGTGATAACTGAAG
>Alligator-mir-101-1-5p
TCAGTTATCACAGTGCTGATGCT

>Alligator-mir-101-2_pre
CATGAACTGTCCTTTTTCGGTTATCATGGTACCGGTGCTGTATACGTGAAAGGTACAGTACTGTGATAACTGAAGAATGATGGTGCCATCACA
>Alligator-mir-101-2-3p
TACAGTACTGTGATAACTGAAG
>Alligator-mir-101-2-5p
TCGGTTATCATGGTACCGGTGCT

>Alligator-mir-103_pre
TGTAATATCTCATTGTCTTTGGCTTCTTTACAGTGCTGCCTTGTTCATATGGATCAAGCAGCATTGTACAGGGCTATGAAGACAATGAGTCTTGC
>Alligator-mir-103-3p
AGCAGCATTGTACAGGGCTATG

>Alligator-mir-106_pre
ATCCCAGGGCTAAAGTGCTTGCAGTGCAGGTAGCTGGCGCTGGCGCTACTGCAGTGTGGGGCTTGCAGCTCTGGGGA

>Alligator-mir-106-5p (predicted)
TAAAGTGCTTGCAGTGCAGGT

>Alligator-mir-107_pre
GTATTCTCTTTGCTTTCAGCTTCTTTACAGTGCTGCCTTGTTCATTTATGTCAAGCAGCATTGTACAGGGCTATCAAAGCGGAGAGAGCTGCA
>Alligator-mir-107-3p
AGCAGCATTGTACAGGGCTATG
>Alligator-mir-107-5p
AGCTTCTTTACAGTGCTGCCTTG

>Alligator-mir-122_pre
TACTATCAGAGCTGTGGAGTGTGACAATGGTGTGTTGTGTCCAATCTATCAAACGCCATTATCACACTAAATAGCTACTGTTAGATA
>Alligator-mir-122-5p
TGGAGTGTGACAATGGTGTGTTG
>Alligator-mir-122-3p
AACGCCATTATCACACTAAA

>Alligator-mir-124-1_pre
GGCCCCGCGCCCCCTCTCTGCGTGTTCACAGCGGACCTTGATTTAAATGTCCATACAATTAAGGCACGCGGTGAATGCCAAGAACGGGGCCGCTC
>Alligator-mir-124-2_pre
TTCCCGGGGCTCTCGCCTCTCCGTGTTACAGCGGACCTTGATTTAAATGTCCATACAATTAAGGCACGCGGTGAATGCCAAGAGCGGAGCCGGAAG
>Alligator-mir-124-3_pre
CCAGGCGAGCCCCCTCTCTGCGTGTTCACAGCGGACCTTGATTTAAATGTCCATACAATTAAGGCACGCGGTGAATGCCAAGAGAGGAGCTCACAGC
>Alligator-mir-124-4_pre
TCCGGACCGCGCCTCGGCTCTCCGTGTTACAGCGGACCTTGATTTAAATGTCCACACAATTAAGGCACGCGGTGAATGCCAAGAGAGGGGCGCCCC
>Alligator-mir-124-3p
TAAGGCACGCGGTGAATGCCA
>Alligator-mir-124-5p
CGTGTTCACAGCGGACCTTGAT

>Alligator-mir-125a_pre
CTAGGCCTCCCTCTCGGTCCCTGAGACCCTTATCCTGTGAGGGAGCCAGAGCTCACAGGTGAGGCCTTGGGAAC TGGGCGGGTGGCCCCCCCAC
>Alligator-mir-125a-5p
TCCCTGAGACCCTTATCCTGTG

>Alligator-mir-125b-1_pre
TTTGTGCGCCCCCTCTCAATCCCTGAGACCCTAACTTGTGATGTTTAGCTTTTAAATCCACGGGT TAGGCTCTTGGGAGCTGTGAGTTGTGCTTTGG
>Alligator-mir-125b-1-5p
TCCCTGAGACCCTAACTTGTGA
>Alligator-mir-125b-1-3p
ACGGGT TAGGCTCTTGGGAGCT

>Alligator-mir-125b-2_pre
GGACTTTTCCTAGTCCCTGAGACCCTAACTTGTGAGGTTTTTTAGCAACAATCACAAGTCAGGCTCTTGGGACCTAGGCGGAGGGGAACCAGC
>Alligator-mir-125b-2-5p
TCCCTGAGACCCTAACTTGTGA
>Alligator-mir-125b-2-3p
ACAAGTCAGGCTCTTGGGAC

>Alligator-mir-126_pre
CGGCCATTATTACTTTTGGTACGCGCTGTGACACTTCAAAC TCGTACCGTGAGTAATAATGCGCTGCGGCCAGCACC
>Alligator-mir-126-3p
TCGTACCGTGAGTAATAATGCG
>Alligator-mir-126-5p
CATTATTACTTTTGGTACGCG

>Alligator-mir-128-1_pre

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CATGAGCTGTTGGATTTCGGGGCCGTAACACTGTCTGAGAGGGTTACATTTCTCACAGTGAACCGGTCTCTTTTTTCAGCTGCTTCCTG
>Alligator-mir-128-1-3p
TCACAGTGAACCGGTCTCTTT
>Alligator-mir-128-1-5p
CGGGGCCGTAACACTGTCTGAGA

>Alligator-mir-128-2_pre
TGTGCAGTTGGAAGGGGGCCGTTACACTGTAAGAGAGTGAGTAGCAGGTCTCACAGTGAACCGGTCTCTTTTTCTACTGTGTCGTGT
>Alligator-mir-128-2-3p
TCACAGTGAACCGGTCTCTTT
>Alligator-mir-128-2-5p
GGGGGCCGTTACACTGTAAGAGA

>Alligator-mir-129a_pre
GTCCCTCTCAGATCTTTTTGCGGTCTGGGCTTGCTGTTCCCTCCAACCCACACTCAGGAAGCCCTTACCCCAAAAAGTATCCGCGGGGG
>Alligator-mir-129a-3p
AAGCCCTTACCCCAAAAAGTAT
>Alligator-mir-129a-5p
CTTTTTGCGGTCTGGGCTTGC

>Alligator-mir-129b_pre
CTTCGCGAATCTTTTTGCGGTCTGGGCTTGCTGTACATAACTACCTAGCCGGGAAGCCCTTACCCCAAAAAGCATTCGCGGAG
>Alligator-mir-129b-3p
AAGCCCTTACCCCAAAAAGCAT
>Alligator-mir-129b-5p
CTTTTTGCGGTCTGGGCTTGC

>Alligator-mir-130a_pre
CAGGCCCTGTCCAAGGCTCTTTTTCACATTGTACTACTGTATGAGCCCTGCCAAGCAATGCAATGTAAAAAGGGCATTTGGGTAGGTGGTCCC
>Alligator-mir-130a-3p (predicted)
CAATGCAATGTAAAAAGGGCAT

>Alligator-mir-130b_pre
GTATGCTGTTGTCCAGAGCCCTTTTTCTGTTGTACTACTGGCAATTATGATGAGCAGTGCAATATTTAAAAGGGCATTTGGCTGGCAGAAACATGACC
>Alligator-mir-130b-3p
CAGTGCAATATTTAAAAGGGCAT
>Alligator-mir-130b-5p
GCCCTTTTTCTGTTGTACTAT

>Alligator-mir-130c_pre
GCATAGTGTCTGTCCAGTGCCTTTTTATGTTGTACTACTAGTGATCGTGCACAAAAAGCAGTGCAATGTTAAAAGGGCATTTGGCCAGCAATACTG
>Alligator-mir-130c-3p
AGTGCAATGTTAAAAGGGCATT

>Alligator-mir-132_pre
ACGTCGCCAGGGCAACCGTGGCTTTAGATTGTTACTGTGTGGTGGTGGGTAACAGTCTACAGCCATGGTCGCTGGGCGGACGC
>Alligator-mir-132-3p
TAACAGTCTACAGCCATGGTCG
>Alligator-mir-132-5p
ACCGTGGCTTTAGATTGTTAC

>Alligator-mir-133a-1_pre
CCAATGCTTTGCTAAAGCTGGTAAAATGGAACCAAATCACCTGTTCAATGGATTTGGTCCCCTTCAACCAGCTGTAGCTATGCATTGAT
>Alligator-mir-133a-1-3p
TTTGGTCCCCTTCAACCAGCTG
>Alligator-mir-133a-1-5p
AGCTGGTAAAATGGAACCAAAT
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>Alligator-mir-133a-2_pre
CCAAATGCTTTTGCTAAAGCTGGTAAAATGGAACCAAATCAACTGTTCAATGGATTTGGTCCCCTTCAACCAGCTGTAGCTGTGCATTGATCAC
>Alligator-mir-133a-2-3p
TTTGGTCCCCTTCAACCAGCTG
>Alligator-mir-133a-2-5p
AGCTGGTAAAATGGAACCAAAT

>Alligator-mir-133a-3_pre
AGTGTGTTTCTGGGGCTGGTAAAAAGGAACCAGATCAACTTGGAAGTGGATTTGGTCCCCTTCAACCAGCTGTAGTGGCACATAAA
>Alligator-mir-133a-3-3p
TTTGGTCCCCTTCAACCAGCTG

>Alligator-mir-133b_pre
AGCTGCACTCTGCTGTGGCTGGTCAAACGGAACCAAGTCCGTCTTCTTGGAGGTTTGGTCCCCTTCAACCAGCTATAGCAGTGCTGA
>Alligator-mir-133b-3p
TTTGGTCCCCTTCAACCAGCTA

>Alligator-mir-135-1_pre
TCCCCTGTGTTATATGGCTTTTTTATTCCCTATGTGATTATACTACTCCTTTTCATATAGGGATTGAAGCCGTGCAATACGCTGGGG
>Alligator-mir-135-1-5p
TATGGCTTTTTTATTCCCTATGTG
>Alligator-mir-135-1-3p
ATATAGGGATTGAAGCCGTGC

>Alligator-mir-135-2_pre
TAAATTCCTCTAGTGTTTTATGGCTTTTTTATTCCCTATGTGATAGTAATAAAGTCTCATGTAGGGATGGAAGCCATGAAATACATTGTGAAAAA
>Alligator-mir-135-2-5p
TATGGCTTTTTTATTCCCTATGTG
>Alligator-mir-135-2-3p
ATGTAGGGATGGAAGCCATGAA

>Alligator-mir-135-3_pre
CCCTCTGCTGTGGTCTATGGCTTTTTTATTCCCTATGTGATTGCTTTTCCCTAACTCATGTAGGGCTAAAAGCCATGGGCTACACAGAGGAT
>Alligator-mir-135-3-5p
TATGGCTTTTTTATTCCCTATGTG
>Alligator-mir-135-3-3p
ATGTAGGGCTAAAAGCCATGG

>Alligator-mir-137a_pre
TCTGACTCTCTTCGGTGACGGGTATTCTTGGGTGGATAATACGGATTACGTTGTTATTGCTTAAGAATACGCGTAGTCGAGGAGAGTACCGCGGC
>Alligator-mir-137a-3p
TTATTGCTTAAGAATACGCGTA

>Alligator-mir-137b_pre
CAGCTCCCTTCGATGACGGGTATTCTTGGGTAGATAATACGGCTGGCGTTGTTATTGCTTGAGAATACGCGTAGTCGAGGGGAGA
>Alligator-mir-137b-3p
TTATTGCTTGAGAATACGCGTA

>Alligator-mir-138-1_pre
TCTGGATGGTACAGTGTGCAGCTGGTGTGTGAATCAGGCCGTCACCGATCAGAGAACGGCTACTTCACAACACCAGGGTTGCACCTTACCACAG
>Alligator-mir-138-1-5p
AGCTGGTGTGTGAATCAGGC
>Alligator-mir-138-1-3p
GCTACTTCACAACACCAGGGT

>Alligator-mir-138-2_pre

GTATTGTTGCTGCAGCTGGTGTGTGAATCAGGCCGACAACAAGCGCATCCTACTATCCGGCTATTTCACTACACCAGGGTTGCATCATAACCAC
>Alligator-mir-138-2-5p
AGCTGGTGTGTGAATCAGGC
>Alligator-mir-138-2-3p
CTATTTCACTACACCAGGGTTA

>Alligator-mir-139_pre
AGGCCTGGCTGTATTCTACAGTGCATGTGTCTCCAGTGTCTTAAGCGACTGGAGATACAGCCCTGTCGGAATAACAGCCAGCGCCAA
>Alligator-mir-139-5p
TCTACAGTGCATGTGTCTCCA
>Alligator-mir-139-3p
TGGAGATACAGCCCTGTCGGA

>Alligator-mir-140_pre
GCTCTCTCTGTGTCTGCCAGTGGTTTTACCCTATGGTAGGTTACGTCATGCTGTTCTACCACAGGGTAGAACCACGGACGGGATACCGGGGCG
>Alligator-mir-140-3p
ACCACAGGGTAGAACCACGGA
>Alligator-mir-140-5p
CAGTGGTTTTACCCTATGGTAG

>Alligator-mir-142-1_pre
GACAGTGCAGTCAACCATAAAGTAGAAAGCACTACTAAACAGCACTGCAGGGTGTAGTGTTCCTACTTTATGGATGAGTGTACTGT
>Alligator-mir-142-1-3p
TGTAGTGTTCCTACTTTATGGA
>Alligator-mir-142-1-5p
CATAAAGTAGAAAGCACTACTA

>Alligator-mir-142-2_pre
CGGTGACAGTCTCCCCCCCCATAAAGTAGCGAGCACGACTCCGCCCGCGCCCGTGTAGTGTTCCTACTTTATGGAGGGGGTGGCTGGGAG
>Alligator-mir-142-2-3p
TGTAGTGTTCCTACTTTATGGA
>Alligator-mir-142-5p
CATAAAGTAGCGAGCACGACT

>Alligator-mir-143_pre
ATGTCTCCCAGCCCAAGGTGCAGTGTCTGCATCTCTGGTCAGTTGTGAGTCTGAGATGAAGCACTGTAGCTCGGGAAGGGAGGAAC
>Alligator-mir-143-3p
TGAGATGAAGCACTGTAGCTC
>Alligator-mir-143-5p
GGTGCAGTGTCTGCATCTCTGG

>Alligator-mir-144_pre
GCGGGGGCTCTGGGCAGGATATCATCGTATACTGTAAGTCGGCTATGAGACACTACAGTATAGATGATGTACTACCCCGGCCTTTCCCCT
>Alligator-mir-144-5p
GGATATCATCGTATACTGTAAG
>Alligator-mir-144-3p
TACAGTATAGATGATGTACTA

>Alligator-mir-145_pre
TGCTGTGTCTCAGGGTCCAGTTTTCCAGGAATCCCTTGGGCACTGTGTTGGGGATTCCCTGGAAATACTGTTCTTGGGGCCGTGGCTCAG
>Alligator-mir-145-5p
GTCCAGTTTTCCAGGAATCC
>Alligator-mir-145-3p
ATTCTGGAAATACTGTTCTT

>Alligator-mir-146a_pre
ATGTATTCTTGGCTTTGAGAAGTGAATTCATGGGTGTGAATTGAATCTTGAACAGACCCATGGGGCTCAGTTCCTCAGCTTGGATATC

>Alligator-mir-146a-5p
TGAGAACTGAATTCCATGGGT

>Alligator-mir-146b_pre
CGCTCCTTGGCTTTGAGAACTGAATTCCATAGGCTTTAAAAGACAAAAAAGCCCTATGGATTTCAGTTCTGTAGCTGGGCGGCAAA

>Alligator-mir-146b-5p
TGAGAACTGAATTCCATAGGCT

>Alligator-mir-146b-3p
AGCCCTATGGATTTCAGTTCTGT

>Alligator-mir-146c_pre
GGCAGTTCCCAGCTCTGAGAACTGAATTCCATGGACTGGTTCCCTCTTCATATCTTCAGTCCATAGTAGTCAGTTCTCTAGCTTGGCTGTATC

>Alligator-mir-146c-5p
TGAGAACTGAATTCCATGGACTG

>Alligator-mir-146c-3p
GTCCATAGTAGTCAGTTCTCT

>Alligator-mir-147_pre
TACTCTATGAATCTAGTGGAAATCATTCTGCACAAACTCGACTATTGAAATCAGTGTGCGGAAATGCTTCTGCTACATTTTTAGGGTCTCCC

>Alligator-mir-147-3p
GTGTGCGGAAATGCTTCTGCT

>Alligator-mir-147-5p
TGGAATCATTCTGCACAAACT

>Alligator-mir-148b_pre
TTGAGGCGGAGTTCTGTGCATACACTCGGACTGTGCTACCTGGGGTCAGTGCATCACAGAACTTTGTCTCGAGCGC

>Alligator-mir-148b-3p
TCAGTGCATCACAGAACTTTG

>Alligator-mir-148b-5p
GAGTTCTGTGCATACACTCGGAC

>Alligator-mir-150_pre
CCTTCTCTGCCCCCACTCTCTCCCAACCCTTGTACCAGTGTTCATGTTACTGGAACCCTGGTACAGAGGATGGATGAGAAGGAGGCGTGGGACCCC

>Alligator-mir-150-5p
TCTCCCAACCCTTGTACCAGTG

>Alligator-mir-150-3p
CTGGTACAGAGGATGGATGAGA

>Alligator-mir-152_pre
GTCTCTCAGCTCAGGTTCTGTGGTACACTTGGACTCGGACTCTGGAGCAGTTCAGTGCATGACAGAACTTGGGTTTGGATGGAC

>Alligator-mir-152-3p
TCAGTGCATGACAGAACTTGG

>Alligator-mir-152-5p
AGGTTCTGTGGTACACTTGGAC

>Alligator-mir-153-1_pre
TCTCGCGGCTGCCGGGGCATTTTTTGTGATTTGCAGCTCGTGGTCTGGGTCCAGTTGCATAGTTCACAAAAGTGATCGTCGGCGGCCGCGCCTG

>Alligator-mir-153-1-3p
TTGCATAGTTCACAAAAGTGATC

>Alligator-mir-153-2_pre
AGCGGTTGCCAGTGTTCATTTTTGTGATGTTGCAGCTAGTAATATGAGCCCAGTTGCATAGTTCACAAAAGTGATCATTTGAAACTGTGACT

>Alligator-mir-153-2-3p
TTGCATAGTTCACAAAAGTGATC

>Alligator-mir-153-3-5p
GTCATTTTTGTGATGTTGCAGCT

>Alligator-mir-155_pre
GTAGGCTGTATGTTGTTAATGCTAATCGTGATAGGGGTTTTACCTCTGACTGACTCCTACATGTTAGCATTAGCACTGTATGATGCCTGTTACC
>Alligator-mir-155-5p
TTAATGCTAATCGTGATAGGG

>Alligator-mir-181a-1_pre
GTGGTTGCTTCAGTGAACATTCAACGCTGTCGGTGAGTTTGGATTTAAAGTGAAAACCATCGACCGTTGATTGTACCCTCCAGCTAACCATC
>Alligator-mir-181a-1-5p
AACATTCAACGCTGTCGGTGAGT
>Alligator-mir-181a-1-3p
ACCATCGACCGTTGATTGTACC

>Alligator-mir-181a-2_pre
CAGATAGCTTCAGTGAACATTCAACGCTGTCGGTGAGTTTGGAGCATTAGAAAAAAACCATCGACCGTTGACTGTACCCTTGAGGTTTATCACA
>Alligator-mir-181a-2-5p
AACATTCAACGCTGTCGGTGA
>Alligator-mir-181a-2-3p
ACCATCGACCGTTGACTGTACC

>Alligator-mir-181a-3_pre
GATACAAAGGTTTTAGCGAACATTCAACGCTGTCGGTGAGTTTTGGCAGTCAGGTTAAACCATCGACCGTTGAGTGTACCCTGCAACCTTGGTAAC
>Alligator-mir-181a-3-5p
AACATTCAACGCTGTCGGTGAGT
>Alligator-mir-181a-3-3p
ACCATCGACCGTTGAGTGTACCC

>Alligator-mir-181b-1_pre
AAGGTCACAATCAACATTCAATTGCTGTCGGTGGGTTTTAACTATGCGGACAAGCTCACTGAACAATGAATGCAACTGTGGCCCCACT
>Alligator-mir-181b-1-5p
AACATTCAATTGCTGTCGGTGGGTT
>Alligator-mir-181b-1-3p
CTCACTGAACAATGAATGCAA

>Alligator-mir-181b-2_pre
TGCATCTAATGGCTGCAATCAACATTCAATTGCTGTCGGTGGGTTTTAGTTTTGTACCAACTCACTGATCAATGAATGCAAACTGCGGACCAGATAGC
>Alligator-mir-181b-2-5p
AACATTCAATTGCTGTCGGTGGGTT
>Alligator-mir-181b-2-3p
ACTCACTGATCAATGAATGCA

>Alligator-mir-181b-3_pre
AAAAAGTCACAATCAACATTCAATTGCTGTCGGTGGGTTGTGATGCTGAAGGGAAAACCTCACGGATCAATGAATGCAACTGTGATTGGAACA
>Alligator-mir-181b-3-5p
AACATTCAATTGCTGTCGGTGGGTT
>Alligator-mir-181b-3-3p
CTCACGGATCAATGAATGCAA

>Alligator-mir-182_pre
GGTCCCTCTCGCTGTCTTTGGCAATGGTAGAACTCACACTGGTGAGGTATCAGGATCCGGTGGTTCTAGACTTGCCAACTACCGCCCGAGGGCACA
>Alligator-mir-182-5p
TTTGGCAATGGTAGAACTCACACT
>Alligator-mir-182-3p
TGGTTCTAGACTTGCCAACT

>Alligator-mir-183_pre
ACTCCTGTTCTGTGTATGGCACTGGTAGAATTCAGTGAATTTACCATAGGGCCATAAACAGAGCAGAGAA
>Alligator-mir-183-5p

TATGGCACTGGTAGAATTCACT
>Alligator-mir-183-3p
TGAATTACCATAGGGCCATA

>Alligator-mir-184_pre
ACGCCATTCCCATCTCCTTATCACTTTTCCAGCCCAGCTTTCTCATGCTCACTGTTGGACGGAGAACTGATAAGGGTATGTGACTGACACGAG
>Alligator-mir-184-3p
TGGACGGAGAACTGATAAGGGT
>Alligator-mir-184-5p
CCTTATCACTTTTCCAGCCCAGC

>Alligator-mir-187_pre
TGTGAGACCTCCGGCTACAACACAGGACATGGGAGCTTTTCTGAACCCTCGTGTCTTGTGTTGCAGCCAGAGGGGCACATC
>Alligator-mir-187-3p
TCGTGTCTTGTGTTGCAGCCAA
>Alligator-mir-187-5p
GCTACAACACAGGACATGGGAGA

>Alligator-mir-190a_pre
AGGACTCTGTGTGATATGTTTGGATATATTAGGTTGTTATTTAATCCAACCTATATATCAAACATATTCTTACAGTGTCTTGCCTT
>Alligator-mir-190a-5p
TGATATGTTTGGATATATTAGG
>Alligator-mir-190a-3p
ACTATATATCAAACATATTCTT

>Alligator-mir-190b_pre
GCCACCTGCCTCTGTCTGATATGTTTGGATATTAGGTTGTTTATTGGAAAGCCAACCTAAATATCAAACATATTCTTACAGCGCCAGGGCCCCCTC
>Alligator-mir-190b-5p
TGATATGTTTGGATATTAGGTTG

>Alligator-mir-191_pre
GCGACAGCGGGCAACGGAATCCCAAAAGCAGCTGTCTTCCGCTCGGCACCTCAGCTGCGCTTGGATTTTCGTTCCCTGCTCTCCCGCC
>Alligator-mir-191-5p
CAACGGAATCCCAAAAGCAGCT

>Alligator-mir-192_pre
TGCGTGCATGGGGCTATGACCTATGGATTGACAGCCAGTATCGGAGCCTCGCCCTGGCTGTCTGTTCTATAGGGCATAGGACTGGGCGCAC
>Alligator-mir-192-5p
TGACCTATGGATTGACAGCCAG
>Alligator-mir-192-3p
TGGCTGTCTGTTCTATAGGGCATA

>Alligator-mir-193a_pre
CATGCGAGCTGAGGGCTGGGTCTTTGCGGGCGAGGTGAGAGGTTTCGTGCGTTCAACTGGCCTACAAAGTCCCAGTTCTCGGCTCCCAGC
>Alligator-mir-193a-3p
AACTGGCCTACAAAGTCCCA
>Alligator-mir-193a-5p
TGGGTCTTTGCGGGCGAGGTG

>Alligator-mir-193b_pre
AAAGTTGTGGTTCCAGAGTCGGGGTTTTGGGGGCAAGATGAGCTTATGTTTTATCCAACCTGGCCCACAAAGTCCCCTTTTTGGTGGTCACTTTGT
>Alligator-mir-193b-3p
TACTGGCCCACAAAGTCCCCT
>Alligator-mir-193b-5p
CGGGTTTTGGGGCAAGATGA

>Alligator-mir-194-1_pre

ACCAGCAGTACTTTCAAATGTAACAGCAACTCCATGTGGACTACGCTGACTTCCAGTGGAGATGCTGTTACTTTTGACAGCCACTCACAGACAT
>Alligator-mir-194-1-5p
TGTAACAGCAACTCCATGTGGAC
>Alligator-mir-194-1-3p
CCAGTGGAGATGCTGTTACTTT

>Alligator-mir-194-2_pre
CGCTGGTGTCCATCCGCTGTAACAGCAACTCCATGTGGGAGGGTCCGTTGGTCCCCGTGGGGCTGCTGTTATTCTGGACGGGCACCGGGAGC
>Alligator-mir-194-2-5p
TGTAACAGCAACTCCATGTGGA
>Alligator-mir-194-2-3p
CCCCGTGGGGCTGCTGTTATTCT

>Alligator-mir-196-1_pre
GAACTGCTTTGTGAATTAGGTAGTTTCATGTTGTTGGGCTTTTTATTTTTAAACACAAGAACATAAAAACCTACCTGATTTACTCCAGTTATTCTCC
>Alligator-mir-196-2_pre
GTGCAGCTGATCTGTGGTTTAGGTAGTTTCATGTTGTTGGGATTGGCTTTTAGCTCGGCAACAAGAAACTGCCTTAATTACGTCAGTTAGTGTTC
>Alligator-mir-196-3_pre
CGAGAACTGCTGTGTGGTTTAGGTAGTTTCATGTTGTTGGGGCTCCACCTTTCTCTCTACAGCACGAAACTGCCTTAATTACTTCAGTTGAAATCG
>Alligator-mir-196-5p
TAGGTAGTTTCATGTTGTTGG

>Alligator-mir-199-1_pre
AGTCCAGCCCAGCCTGCCAGTGTTCAGACTACCTGTTTCAGGAGCATATGAAGTTGTACAGTAGTCTGCACATTGGTTAGATCGGGCTTGGCAT
>Alligator-mir-199-2_pre
CCTGCTCCGTCGCCCCAGTGTTCAGACTACCTGTTTCAGGACAATGCTGTTGTACAGTAGTCTGCACATTGGTTAGACTGGGCAAGGGAA
>Alligator-mir-199-3_pre
TCCACTCCGTCGCCAGTGTTCAGACTACCTGTTTCAGGACTACGAGATTGTACAGTAGTCTGCACATTGGTTAGGCTGTGCTGGG
>Alligator-mir-199-3p
ACAGTAGTCTGCACATTGGTTA
>Alligator-mir-199-5p
CCCAGTGTTCAGACTACCTGTT

>Alligator-mir-200a_pre
TGGTCCTCTGTGGGCATCTTACTAGACAGTGCTGGATATTTTTGGATCTACTCTAACACTGTCTGGTAACGATGTTTAAAGGGTGAACCAA
>Alligator-mir-200a-3p
TAACACTGTCTGGTAACGATGT
>Alligator-mir-200a-5p
CATCTTACTAGACAGTGCTGG

>Alligator-mir-200b_pre
TCCTGGGATGCCGTTACCATCTTACTGGGCAGCATTGGATGTTTTCTGTGTTTTCTAATACTGCCTGGTAATGATGATTATGGTGTCTCGC
>Alligator-mir-200b-3p
TAATACTGCCTGGTAATGATGAT
>Alligator-mir-200b-5p
CATCTTACTGGGCAGCATTGG

>Alligator-mir-202_pre
CTCGTTGTTCCTTTTTCCCTATGCATATACTTCTTTGAGAATTGGATCTAAAGAGGCATAGGGCATGGGAAAATGGGGCGACTGAGGTA
>Alligator-mir-202-5p
TTTTCCCTATGCATATACTTCTTT

>Alligator-mir-203_pre
CGCTCTCCGCTCGCGGGTGCAGTGGTTCTTAACAGTTCAACAGTTCTTTAGGCTAATTGTGAAATGTTTAGGACCCTTGACCCGCGAGGCGCCG
>Alligator-mir-203-3p
GTGAAATGTTTAGGACCCTT
>Alligator-mir-203-5p

AGTGGTTCTTAAACAGTTCAACAG

>Alligator-mir-204-1_pre

TGTGACCTGTGGACTTCCCTTTGTCATCCTATGCCTGAGAATATATGAAGGGGGCTGGGAAGGCAAAGGGACGTTCAATTGTCATCACT

>Alligator-mir-204-1-5p

TTCCCTTTGTCATCCTATGCCT

>Alligator-mir-204-1-3p

GCTGGGAAGGCAAAGGGACGT

>Alligator-mir-204-2_pre

GACCATGTGACCTGTGGGCTTCCCTTTGTCATCCTATGCCTGGAGATCATAGTGAGGCAGGGACAACAAAGGGATGCTCAATTGTCATCTCGTGCA

>Alligator-mir-204-2-5p

TTCCCTTTGTCATCCTATGCCT

>Alligator-mir-204-2-3p

GCAGGGACAACAAAGGGATGC

>Alligator-mir-205a_pre

TCCATGGATTCTGTTGTCCTTCATTCCACCGGAGTCTGTCTCATACCTAATCAGATTTTCAGTGGAGTGAAGCACAAAGAGACATGGAGTTG

>Alligator-mir-205a-5p

TCCTTCATTCCACCGGAGTCTG

>Alligator-mir-205a-3p

GATTTTCAGTGGAGTGAAGCACA

>Alligator-mir-205b_pre

TCCATGGCTTTCTGGTGCCCTTCATTCCACCGGAATCTGTAGGGATCAAAACCAGATTTTCAGTGAAATGAAGCCCCCTCAGACGTGGAAT

>Alligator-mir-205b-5p

CCCTTCATTCCACCGGAATCTGT

>Alligator-mir-206_pre

CTTCTCTTTTGAGGCAACATGCTTCTTTATATCCCCATAGGGATAACAGTGCTATGGAATGTAAGGAAGTGTGTGGTTTTCGGGGAGATG

>Alligator-mir-206-3p

TGGAATGTAAGGAAGTGTGTGG

>Alligator-mir-206-5p

ACATGCTTCTTTATATCCCCAT

>Alligator-mir-208_pre

GCTGCTTCTCCAACAGGGAAGCTTTTGGCTTGGGTATATTTGTCACTCGCAGTGTATAAGACGAGCGAAAAGCTTCTTGGTTGGAAGAGAGAT

>Alligator-mir-208-3p

ATAAGACGAGCGAAAAGCTTCT

>Alligator-mir-210_pre

CTCCAGAAGCAGGTGAGCCACTGACTAACGCACATTTGTGCTGTTAGCGATTTCCACTGTGCGTGTGACAGCGGCTAACCTGNTTTTCGGACAT

>Alligator-mir-210-5p

AGCCACTGACTAACGCACATTT

>Alligator-mir-210-3p

CTGTGCGTGTGACAGCGGCTA

>Alligator-mir-212_pre

CAGCGCTCGGCACCTTGGCTCTAGACTGCTTACTGCTGAGCACGGCGACCGGAACAGTAACAGTCTACAGTCATGGCTACTGAAGCATGACA

>Alligator-mir-212-5p

ACCTTGGCTCTAGACTGCTTA

>Alligator-mir-212-3p

TAACAGTCTACAGTCATGGCTA

>Alligator-mir-214_pre

CGGAGTTGTCATGTGTCTGCCTGTCTACACTTGTGCTGTGCAGAACATCCACTCACCTGTACAGCAGGCACAGACAGGCAGTCACATGACAACCC

>Alligator-mir-214-3p

ACAGCAGGCACAGACAGGCAG
>Alligator-mir-214-5p
TGCCTGTCTACACTTGCTGTGC

>Alligator-mir-215_pre
AACTGTTGTGCAGGAAAATGACCTATGAATTGACAGACTGTGTATTCTAAGCTTGTCTGTCATTTCTGTAGGCCAATATTCTGCACACCTTC
>Alligator-mir-215-5p
TTGACCTATGAATTGACAGAC
>Alligator-mir-215-3p
TCTGTCATTTCTGTAGGCCAAT

>Alligator-mir-216a_pre
GATGGCTGTGAATTGGCATAATCTCAGCTGGCAACTGTGAGCAGTTCATAAAATTCTCTCACAGTTGTATCTGGGATTATGCTAAACATAGCAATTT
>Alligator-mir-216a-5p
TAATCTCAGCTGGCAACTGTG

>Alligator-mir-216b_pre
CAAGTCGCAGACTGGGAAATCTCTACAGGCAAATGTGATGTCTTTATAGTAATCTCACAATTACCTATAGAGATTCTTCAATCTGGCATCTTC
>Alligator-mir-216b-5p
AAATCTCTACAGGCAAATGTGA
>Alligator-mir-216b-3p
TCACAATTACCTATAGAGATTC

>Alligator-mir-217_pre
TTTTGATGTGCGAGATACTGCATCAGGAACTGATTGGATAATAATCAGTCCACATCAGTTCCCTAATGCATTGCCTTCAGCATCTAAA
>Alligator-mir-217-5p
TACTGCATCAGGAACTGATTGG
>Alligator-mir-217-3p
CATCAGTTCCCTAATGCATTGCC

>Alligator-mir-218-1_pre
TAGCGAGATTTTCTGTTGTGCTTGATCTAACCATGTGGTTGTGAGGTATGAGTAAAACATGGTTCTGTCAAGCACCATGGAACGTCACGCAGCT
>Alligator-mir-218-2_pre
AATGGGGTTTTCTTTGTGCTTGATCTAACCATGTGGTAGAACAATACAAATTGAACATGGTTCTGTCAAGCACCATGGAAGGCTGCATA
>Alligator-mir-218-5p
TTGTGCTTGATCTAACCATGT

>Alligator-mir-219a_pre
TGAGCGCCGGGTCTGATTGTCCAAACGCAATTCTTGTGTCTGCCCAAGAATTGAGTGTGGACGTCGGGAGCCGCGTTCCTCCCA
>Alligator-mir-219a-3p
AGAATTGAGTGTGGACGTCGGG
>Alligator-mir-219a-5p
TGATTGTCCAAACGCAATTCTTG

>Alligator-mir-219b_pre
GGAGTCTCCGCTCCTGATTGTCCAAACGCAATTCTTGTGCCGTGGAAACGTACAAACCAAGAATTGTGTCTGGACATCTGTGGCGGGGAGTCC
>Alligator-mir-219b-3p
AGAATTGTGTCTGGACATCTG
>Alligator-mir-219b-5p
TGATTGTCCAAACGCAATTCTTG

>Alligator-mir-221_pre
TCCAGGTTTGGGGCATGAACCTGGCATAACAATGTAGATTTCTGTATTTCTTAAGCAACAGCTACATTGTCTGCTGGGTTTCAAGCTGCCTGGAAA
>Alligator-mir-221-5p
ACCTGGCATAACAATGTAGATTT
>Alligator-mir-221-3p
AGCTACATTGTCTGCTGGGTTTC

>Alligator-mir-222a_pre
TAGTTGCCCATCAATCGCTCAGTAGTCAGTGTAGATTCTGTTTTTACAATCAGCAGCTACATCTGGCTACTGGGTCTCTGATGACATCTTGTAG
>Alligator-mir-222a-3p
AGCTACATCTGGCTACTGGGTCTC
>Alligator-mir-222a-5p
CGCTCAGTAGTCAGTGTAGATTC

>Alligator-mir-222b_pre
GATGTAATTGGGTGCTCAGTAGTCGGTGTAGAATCTGTCTGACATTGATACCAACAGCTACATCTGATTACTGGGTCACTAATTGCATCATCAA
>Alligator-mir-222b-3p
AGCTACATCTGATTACTGGGTAC
>Alligator-mir-222b-5p
TGCTCAGTAGTCGGTGTAGAATC

>Alligator-mir-223_pre
CGCAGTGCTGCACTCCGTGTATTTGACAAGCTGAGTTTGACACTCAGTGTGGCAGAGTGTGAGTTTGTCAAATACCCCAAGTGAGGC
>Alligator-mir-223-3p
TGTCAGTTTGTCAAATACCCCAA
>Alligator-mir-223-5p
CGTGTATTTGACAAGCTGAGTTT

>Alligator-mir-301a_pre
CTGCTAACGAATGCTCTGACTTTATTGCACTACTGTACTTTACAGCTAGCAGTGCAATAGTATTGTCAAAGCATCTGAAAGCAGAG
>Alligator-mir-301a-3p
CAGTGCAATAGTATTGTCAAAGCAT
>Alligator-mir-301a-5p
GCTCTGACTTTATTGCACTACT

>Alligator-mir-301b_pre
GTGGCTGCTGGTATCGCTGGCTCTGACAATGTTGCACTACTGTCTGCACAAATAAAGCAGTGCAATAATATTGTCAAAGCATTTGGTTCCAGTCCCT
>Alligator-mir-301b-3p
CAGTGCAATAATATTGTCAAAGC
>Alligator-mir-301b-5p
TCTGACAATGTTGCACTACT

>Alligator-mir-302a_pre
AGCTTAAAGGACCCCCAGAACTTTAATGTGGATGTACTTGCTTTGTTTCTGAAAAAGTAAGTGCTTCCATGTTTTGGTGCTGGTGAATCCTGCTCT
>Alligator-mir-302a-3p (predicted)
TAAGTGCTTCCATGTTTTGGTG

>Alligator-mir-302b_pre
GAAGTATGGTTTTCCCTTCTACTTTAACATGGAGGTGCTTTCTGTGACTTATAAGAAGTAAGTGCTTCCATGTTTTAGTAGAGGTGAAATCCTGTTC
>Alligator-mir-302b-3p
TAAGTGCTTCCATGTTTTAGTT

>Alligator-mir-302c_pre
TTAAACAGCCTCCTTTGCTTTAACATGGAGGTACCTGCTGCCTAAAAAAGTAAGTGCTTCCATGTTTTCAGTGGTGGTGGTAGTTCCCT
>Alligator-mir-302c-3p (predicted)
TAAGTGCTTCCATGTTTCAGTG

>Alligator-mir-302d_pre
CCCCTCTACTTTAACATGGGAGGTACTTGCTGGATGCTTGAAAAAGTAAGTGCTTCCATGTTTTAGTTGTGGTGAATCCT
>Alligator-mir-302d-3p
TAAGTGCTTCCATGTTTTAGTT

>Alligator-mir-338-1_pre

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CCACTTGCTCCCGCTCCCCAACAAATATCCTGGTGCTGAGCGAGTTGCGCACAGAGACTCCAGCATCAGTGATTTTGTGAGGAGGGCGAGCTCTG
>Alligator-mir-338-1-3p
TCCAGCATCAGTGATTTTGT
>Alligator-mir-338-1-5p
AACAAATATCCTGGTGCTGAG

>Alligator-mir-338-2_pre
TGCAAATGTTTATTTCTGGCAACTATCCTGATGCTGTCTGAGTATGTGGTAAAGCTCCAGCATCAGTGATTTTGTGTTAGTGGTAAATTCAAG
>Alligator-mir-338-2-3p
TCCAGCATCAGTGATTTTGTGTTG
>Alligator-mir-338-2-5p
AACACTATCCTGATGCTGTCT

>Alligator-mir-365-1_pre
TTACCGCAGGGAAAATGAGGGACTTTTGGGGGCAGTTGTGTTTCCATTACACTATCATAATGCCCTAAAAATCCTTATTGCTCTTGCAGTAT
>Alligator-mir-365-1-3p
TAATGCCCTAAAAATCCTTA
>Alligator-mir-365-1-5p
AGGGACTTTTGGGGGCAGTTGTG

>Alligator-mir-365-2_pre
GTGGCAGCAAGAAAATGAGGGACTTTTCAGGGGCAGCTGTGTTTACTAACCCAGTCATAATGCCCTAAAAATCCTTATTGTTCTTGCAATGTTTC
>Alligator-mir-365-2-3p
TAATGCCCTAAAAATCCTTA
>Alligator-mir-365-2-5p
AGGGACTTTTCAGGGGCAGCTGT

>Alligator-mir-367_pre
TCTTCAACTACAGGCTGCTACTGTTGCTAATATGCAACTCTGTTATGTCAAAATTTGGAATTTGCACTTTAGCAATGGTGATGGACTGTAAGACACAC
>Alligator-mir-367-3p (predicted)
AATTGCACTTTAGCAATGGTG

>Alligator-mir-375_pre
CTGGCCGCCCTCTGCGCCTGCCTGGCGTCGAGCCCCGACGTGCAAGACCTGACGTGAATGTTTGTTCGTTTCGGCTCGCGTTAGGCAGGCCAGCCCT
>Alligator-mir-375-3p
TTTGTTCGTTTCGGCTCGCGTT

>Alligator-mir-383_pre
CGCCAAGTCACCTGCTCCTCAGATCAGAAGGTGATTGTGGCTTTGAGTAGATATTAAGCAGCCACAGCACTGCCTGGTCAGAAAGAGCAAGTGTAC
>Alligator-mir-383-5p
AGATCAGAAGGTGATTGTGG

>Alligator-mir-425_pre
GGAGAGAGATTGCTTTGGAATGACACGATCACTCCCGCTGAGCGAGACGCCCGACAGCCATCGGGAATATCGTGTCGGTCCAAAGCTCTTTTCG
>Alligator-mir-425-5p
AATGACACGATCACTCCCGCTGA
>Alligator-mir-425-3p
CATCGGGAATATCGTGTCGGTC

>Alligator-mir-429_pre
CCTGAGTGCCTGCTGATTGACGCTTTACCAGACAAAGTTAGATCTAGCTATTTTCGTCTAATACTGTCTGGTAATGCCGTTGATCGCACTGGCA
>Alligator-mir-429-3p
TAATACTGTCTGGTAATGCC
>Alligator-mir-429-5p
TCTTACCAGACAAAGTTAGA

>Alligator-mir-449a_pre
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GTGTGTGATGGGAAGGCAGTGTACTGTTAGCTGGTGTGAGTTTTTTCAACCAGCTAACATGCAGCTGCTATCCTACTGCACAAACTTTGA
>Alligator-mir-449a-5p
AGGCAGTGTACTGTTAGCTGGT

>Alligator-mir-449b_pre
TAGCGCTCCCTGTGTCTGGTAGGCAGTGTACTGTTAGCTGGCTGCTTTGTGTGAATCTAGCAGTCGCTACTGCACTGTCAACAGCTGCAGGGGCAG
>Alligator-mir-449b-5p
AGGCAGTGTACTGTTAGCTGGCT

>Alligator-mir-449c_pre
ATGTTTCAGTTTGGCAGTGCATTGCTAGCTGGCTGTTGTGTACGTGTGTTAACAGTTGCTAGCTGTACTCCATATTGTTGCATTC
>Alligator-mir-449c-5p
TTGGCAGTGCATTGCTAGCTGGC

>Alligator-mir-449d_pre
ATGTGTGTGTGATGATTAGGCAGTGTATTGTTAGTTAGCTGGCATTACATAACCAGCAACTAAACACACTTCCACATTAGCACACAAC
>Alligator-mir-449d-5p
AGGCAGTGTATTGTTAGTTAGC

>Alligator-mir-454_pre
AACCTTAAGGATAAGACCCTATCAATATTGCCTCTGCTTTTTGTGATCAGGGTAGTAGTGCAATATTGCTTATAGGGTCTTTTTCTTTGGAGGGT
>Alligator-mir-454-3p
TAGTGCAATATTGCTTATAGGGTCT
>Alligator-mir-454-5p
ACCCTATCAATATTGCCTCTGCT

>Alligator-mir-455_pre
TCCCTGGTGTGAGGGTATGTGCCCTTGGACTACATCGTGGAAGCCAGCACCATGCAGTCCATGGGCATATACACTTGCCTCAAGGTTTATTT
>Alligator-mir-455-5p
TATGTGCCCTTGGACTACATCG
>Alligator-mir-455-3p
ATGCAGTCCATGGGCATATACA

>Alligator-mir-456_pre
TGTGTATGTGTGAGCAGGCATCTTCTCAGCCTACATGTGGATTCTTAAATCTGCAGGCTGGTTAGATGGTTGTCATACATTCACCTGA
>Alligator-mir-456-3p
CAGGCTGGTTAGATGGTTGT

>Alligator-mir-458_pre
TGGTGCAGATGGCAGCGCCATTTTCAGAGCTATAAACAGTATCATTGTCATAGCTCTTTGAATGGTACTGCCATATGTACTG
>Alligator-mir-458-3p
ATAGCTCTTTGAATGGTACTGC

>Alligator-mir-459_pre
TTGTTTCTTGCAATCAGTAACAAGGATTCATCTCTGTATTGTGTGAAGAACAGAGAGAGTCTTTGTAAC TAAGTGCAAGTAATAGCCA
>Alligator-mir-459-5p
TCAGTAACAAGGATTCATCTCTG

>Alligator-mir-460a_pre
TGACTTTATAGGACCTGCATTGTACACACTGTGTGTATTGACTGGGCGTGCACAGCGCATACAATGTGGATACTGTAGAAGTCA
>Alligator-mir-460a-5p
CCTGCATTGTACACACTGTGTG

>Alligator-mir-460b_pre
GGACGTGGCTCTATGTTGTCTCATTGTACATGCTGTGTGTATATTTATGACGTACACAGCGCATGCAATGTGGACAGAATGGAGACCAGCAGGCT
>Alligator-mir-460b-5p
TCCTCATTGTACATGCTGTGTG

>Alligator-mir-460b-3p
CACAGCGCATGCAATGTGGACA

>Alligator-mir-489_pre
GTGGTGGCTTGGTGGTTCGTATGTATGACGTCATTTACTTGGACTTTTAGGAGTGACATCATATGTACGGCTGCTAAACTGCTGCAT
>Alligator-mir-489-3p
TGACATCATATGTACGGCTGCT
>Alligator-mir-489-5p
TGGTTCGTATGTATGACGTCATT

>Alligator-mir-490_pre
GTTTCATGGTTTCGACACCATGGATCTCCAGGTGGGTCAAGACTATAGAGATACACCAACCTGGAGGACTCCATGCTGTTGAGCTGTTTACA
>Alligator-mir-490-5p
CCATGGATCTCCAGGTGGGTCA
>Alligator-mir-490-3p
CAACCTGGAGGACTCCATGCTG

>Alligator-mir-497_pre
CAGGCCAGCCCCGCCAGCAGCACATCATGGTTTGTGGGGTCTCGTGGCACAGACCATGGCGTGGTGCTACCGCGGGGCCGGGAGAC
>Alligator-mir-497-5p
TAGCAGCACATCATGGTTTGT
>Alligator-mir-497-3p
CAGACCATGGCGTGGTGCTACC

>Alligator-mir-499_pre
TGAGAGAGCGGCAGTTAAGACTTGCAGTGATGTTTAGATAATGTATTACATGAACATCACTTTAAGTCTGTGCTACTTCTCTCCTC
>Alligator-mir-499-5p
TTAAGACTTGCAGTGATGTTT
>Alligator-mir-499-3p
AACATCACTTTAAGTCTGTGCT

>Alligator-mir-551-1_pre
TTCTGCTTTAACCTTGGAAATCAAGGATGGGTGAAGCCTGTTGGAATAACTCTAGGCGACCCATACTTGGTTTCAAGGGTCAGCAGGGATT
>Alligator-mir-551-1-3p
GCGACCCATACTTGGTTTCA
>Alligator-mir-551-1-5p
GAAATCAAGGATGGGTGAAGC

>Alligator-mir-551-2_pre
CATGACCCAATGGCTCCAGAAATCAAGGGTGGGTAAAGACCTCGTAAGAACAGTTGAAGGCGACCCATACTTGGTTTCAAGGGCTTTGAGGGTATAG
>Alligator-mir-551-2-3p
GCGACCCATACTTGGTTTCA

>Alligator-mir-599_pre
CATATTGTCCATAGTGTGTTTGGATAAGCTGACATGGGACAGGAGTTCTTTTCACTGTTGTGTCAGTTTATCAAACCCATACCTGGACATCAGTC
>Alligator-mir-599-3p
GTTGTGTCAGTTTATCAAACCC
>Alligator-mir-599-5p
GTTTGGATAAGCTGACATGGGAC

>Alligator-mir-737_pre
GCTACTCTGCTGTTATTTTTTTAGGTTTTGATTTTTTATTGCATCTTCATGCGAAAATCAAACCTAAAGAAAATGCTGCAAAGATAGAT
>Alligator-mir-737-5p
ATTTTTTTTAGGTTTTGATTTTT

>Alligator-mir-875_pre
GTTTAGTGGTACAATACCTCAGTCTTTTCAGGTGTTCTATAAAAATCACCTGGAAAATATTGAGGTTGAGTTTCACTGAACACAGGC

>Alligator-mir-875-5p
AATACCTCAGTCTTTTCAGGTG

>Alligator-mir-1306_pre
ATGAACAGCCTCCACCACCTCCCCTGCAAACGTCCAGTGACGCAGAGGTAATGGACGTTGGCTCTGGTGGTGATGGACAGTCAGATAC
>Alligator-mir-1306-3p
TGGACGTTGGCTCTGGTGGTGAT
>Alligator-mir-1306-5p
CACCTCCCCTGCAAACGTCCA

>Alligator-mir-1329_pre
GGTCTGGTTGTAGAGATACAGTGATCAGGTTACGATGATTTCTCAAGTAACAACCTCGTAGCTTGATCACAATATCCCTATGACTTAGATAA
>Alligator-mir-1329-5p
TACAGTGATCAGGTTACGATGAT

>Alligator-mir-1388_pre
AGTGAGGGGCGTCCCCAGGACTGTCTAACCTGAGAATGGTGAAACACGAGGGTCAATCTCAGGTTTCGTCAGCCCATGAGACGCTCTCTCCAG
>Alligator-mir-1388-5p
AGGACTGTCTAACCTGAGAATG
>Alligator-mir-1388-3p
ATCTCAGGTTTCGTCAGCCCAT

>Alligator-mir-1397_pre
ACAGAGTGCGATGTGTGCATTGCATTGCGACGGGTTACATCACTGGTCGTAACATGATGTAACCCAACGCAGCATGATGTAAGCGTCGTGATACAT
>Alligator-mir-1397-5p
TGCATTGCGACGGGTTACATC
>Alligator-mir-1397-3p
ATGTAACCCAACGCAGCATGATA

>Alligator-mir-1416_pre
AGTGATGGCTGACACTCCTTCCTTAACTCATAACCGCTGTGCCTGCCTTCTTTCTTTTACAAATTGTGTGAGTTGAGTTCAGAGTGTGAGTCCAACCC
>Alligator-mir-1416-5p
TCCTTAACTCATAACCGCTGTG

>Alligator-mir-1641_pre
AGGGCATTTCCTGGGGATTAATGACTGTCTGGGGTCATCATCTCCTCCCAGTTAGTTATTAATCCCCAGGAAATACTTTATAACCTTGATC
>Alligator-mir_1641-5p (predicted)
TGGGGATTAATGACTGTCTGGG

>Alligator-mir-1662_pre
GCAGAGCTGTGCTCTATGGGTTTGACATCATCATACTTGGGATGTATGTCACAAAGTCCCAAGAAGGCTGATGTCAGGCCCAAGATTGCTGCCATC
>Alligator-mir-1662-5p
TTGACATCATCATACTTGGGA

>Alligator-mir-1677a_pre
CTCCAGGCTTGGTCCAATGCTCATTGAAGTCATGGAGAATCTTTACACTGACTTCACTGAGCTTTGGACCAGGTTTCATGAGAA
>Alligator-mir-1677a-3p
TGACTTCACTGAGCTTTGGACA

>Alligator-mir-1677b_pre
AGCAACTAGGGGCTGATCCAGAGCCCGTTGAAGTCAGCGGGGAGACATTC AAGTGACTTCAGGGGGCTTTGAATGAGGCTCTCAGTGATCACACT
>Alligator-mir-1677b-5p
TCCAGAGCCCGTTGAAGTCAG
>Alligator-mir-1677b-3p
TGACTTCAGGGGGCTTTGAATGT

>Alligator-mir-1677c_pre

GCAGCACTGTGGGCTTGACCCAGAACCCACTGAAGTTAAGGGCAGAGTCCCCTTAGCTTCTGTGGGCTGTAGGTCAGGCTCCACGTGTTAT
>Alligator-mir-1677c-5p
TGACCCAGAACCCACTGAAGTT
>Alligator-mir-1677c-3p
CTTCTGTGGGCTGTAGGTCA

>Alligator-mir-1720_pre
CTTCTGATCACCTCAGTTGTTGCTTTTGTGAGCATTTTCATGGGAAAGCAACAAGAGGGCAGGTCTGAAACCC
>Alligator-mir-1720-3p (predicted)
AAGCAACAAGAGGGCAGGTCTGA

>Alligator-mir-1788_pre
GCCCGCCGCGTCTGGGCTTGTTTTCAGTTGCCTGCGGGTTTATTTGGACGACTCAGGCAGCTAAAGCAAGTCTGGGACGGGTGAGGAGA
>Alligator-mir-1788-5p
GGCTTGTTTTCAGTTGCCTGCG
>Alligator-mir-1788-3p
CAGGCAGCTAAAGCAAGTCTG

>Alligator-mir-1791_pre
TGATGCACCATGTTGGGCTGCCTCAGTCATGCCATGTTATGAAACCTAATGCAATGTGACTGATGCAGGCTGACGTGATGTGTCA
>Alligator-mir-1791-3p
CAATGTGACTGATGCAGGCTGAC
>Alligator-mir-1791-5p
TGGGCTGCCTCAGTCATGCCATG

>Alligator-mir-1805_pre
TGGAATATTCTGGGAGTTGTAGTCTTTCAAACAGAGCTTTGCAAGTACATACCTGTATTGGAACACTACAGCTCCCTGAACTTCTTAGTGTCA
>Alligator-mir-1805-3p
TGTATTGGAACACTACAGCTCC
>Alligator-mir-1805-5p
AGTTGTAGTCTTTCAAACAGA

>Alligator-mir-2184_pre
CCCGGTCCC GCCGCCCAACAGTAAGAGTTTATGTGCGGTGAGAGCTGGAATCTGCATGTGAACTCCTACTGCTCCGGGCGGCGGGGCACAGCG
>Alligator-mir-2184-5p
AACAGTAAGAGTTTATGTGCGG
>Alligator-mir-2184-3p
GCATGTGAACTCCTACTGCTCC

>Alligator-mir-2188_pre
GAATATCAGACCCGTGGGAAAGGTCCAACCTCACATGTCTGTATGTACAGGAGGGATATATGTGGTCAGACCTATCCCACAGGCCCTGTATTC
>Alligator-mir-2188-5p
AAGGTCCAACCTCACATGTCC
>Alligator-mir-2188-3p
ATATATGTGGTCAGACCTATC

>Alligator-mir-2970_pre
CGGGCCTCTTCTGCCACTGCAGACAGTCAGCAGTTGGTCTGGCGTGAGCAGCATTTCTCAGATCACCTCTTGGCTGTGGGTGGTGCAGAGAGCGCC
>Alligator-mir-2970-5p
GACAGTCAGCAGTTGGTCTG
>Alligator-mir-2970-3p
AGATCACCTCTTGGCTGTGGG

>Alligator-mir-2984_pre
TGCTTTACCTGTGGCTCCTACTGTGAGTGAAATTGAGTAGGATCAGGTGATCCTAGTCAATTTCACTCGCAGCAGGTCTTGGGGATAAAGCC
>Alligator-mir-2984-3p (predicted)
AATTTCACTCGCAGCAGGTCTG

>Alligator-mir-3064_pre
GTTTATCTTTGATTTGGCTGTTGTGGTGTGCAAAACTTTGTGCGTTGCTTTTTGCCACACTGCAACACTTTACAGATGTGGAAGATGTGA
>Alligator-mir-3064-3p
TTGCCACACTGCAACACTTTAC

>Alligator-mir-3618_pre
GAATGCATTGTGATTTCCAATAATTGAGACAGTGATTCTGAAAGCTGTCTACATTAATGAAAAGAACAATGTAGTCA
>Alligator-mir-3618-3p (predicted)
TGTCTACATTAATGAAAAGAAC

>Alligator-novel-1_pre
CTTCCCTTCTCCCCCCTTTCAAAATTCTAGATCTGCCTATGGGCATGGGTAGTACTAGGATTTTGGAAAGGGGGTGGGAGGGCAC
>Alligator-novel-1-5p
CTTTCAAAATTCTAGATCTGCC
>Alligator-novel-1-3p
TAGTACTAGGATTTTGGAAAGGG

>Alligator-novel-2_pre
CTTTGGCAAATACCTGGTCATTACCAAGGCTGCTAGGAAAACACTGTTTCTAGTATGCTGTGGACATGACCATAAAGAGAATCCAT
>Alligator-novel-2-5p
CTGGTCATTACCAAGGCTGCTA
>Alligator-novel-2-3p
TATGCTGTGGACATGACCATA

>Alligator-novel-8_pre
TCAGAGGAAGGCAGGGTAGCTTTGCACCTTACAGACTAACCAAAGTAGACATATTGGTTAATCTATAGGTGCAAATCGACCTTGCCTTCTATTTGA
>Alligator-novel-8-5p
GCTTTGCACCTTACAGACTAACC
>Alligator-novel-8-3p
TTAATCTATAGGTGCAAATCGA

>Alligator-novel-9_pre
GGTTGGGAGAGGTTTTAGACAAGCTGTTGAGCCCAGTGGAAGAGCACTTCATGGCCAATAGTTTTGTCTAAAATCTCTCCCAACC
>Alligator-novel-9-5p
TTTAGACAAGCTGTTGAGCCCAG
>Alligator-novel-9-3p
ATGGCCAATAGTTTTGTCTAAAAT

>Alligator-novel-10_pre
GGTGTGAGGAAGCAGTGGACAATGAAGAATGCAGTGCAACAACAGTAAGTGCATGTCTCATTGTCCATTGCTTCCTGATGTC
>Alligator-novel-10-5p
CAGTGGACAATGAAGAATGCA
>Alligator-novel-10-3p
CATGTCTCATTGTCCATTGCTT

>Alligator-novel-13_pre
GGGGTCAGGAGGGCAGGGCAGCCTGACTCGCAGCAGAGAGCTGATGCCTGTACCTGTGCTGAGGGTCAGGCTGGACTGCAGCCACCCTGGCTCG
>Alligator-novel-13-5p
GGGCAGCCTGACTCGCAGCAGA
>Alligator-novel-13-3p
TGCTGAGGGTCAGGCTGGACTG

>Alligator-novel-14_pre
ACACATCCTTGGCAATATCTGGGGCACATCTCTAGAAGCAGGAATAGTCAGGATGCTCTGCTTCTAGTGACTTGCCTTGGAGATTGCTGGAGGT
>Alligator-novel-14-5p
TGGGGCACATCTCTAGAAGC

>Alligator-novel-14-3p
TTCTAGTGACTTGCCTTGGAGA

>Alligator-novel-15_pre
CTGGAGGGGGAGCAGCAAGGACTAGGGACCCAAGAGACAGAGAATTAATTTCTTGGTACTCCTGCCCTTGCAGATTGTGAATGCCCTGG

>Alligator-novel-15-5p
CAGCAAGGACTAGGGACCCAAGA

>Alligator-novel-15-3p
TTGGTACTCCTGCCCTTGCAG

>Alligator-novel-16_pre
GTCCCAAATACACTGCTGGAGTCAGTGGGTACAAGTCTGTGGAGCTGATAGAGTTGTACATGTTGACACAAGCAGTGAATTTGGCCG

>Alligator-novel-16-5p
TGGAGTCAGTGGGTACAAGTCT

>Alligator-novel-16-3p
AGTTGTACATGTTGACACAAGC

>Alligator-novel-18_pre
GTGGAATGCAGAGGCAAGGATTTCTTAGGGTGATATCTTTTAATTATCTTTTCTTATCACTCTAATAAAATCCTTGCCCTTCGACACCAT

>Alligator-novel-18-5p
CAAGGATTTCTTAGGGTGAT

>Alligator-novel-18-3p
TCACTCTAATAAAATCCTTGCC

>Alligator-novel-20_pre
CTCACTGTTCCCTTCTCTGTTCTTTTGCATCTTTCAGACCAGGATGAAAGAGCAGCAGAACTCAGCAGGGAGCAGAATGAG

>Alligator-novel-20-5p
CTCTGTTCTTTTGCATCTTTCA

>Alligator-novel-20-3p
AAAGAGCAGCAGAACTCAGCAG

>Alligator-novel-21_pre
CAGGTCCCTTCTGGTTCTACACTTCTATGATTCTGTAAAAGGGGAATCATAGGCTTGGAGAATGGCAAGGGGTCAG

>Alligator-novel-21-5p
GGTTCTACACTTCTATGATTCT

>Alligator-novel-21-3p
AATCATAGGCTTGGAGAATGGCA

>Alligator-novel-27_pre
CTGGGTTGCCTGTGAGTCCATGCTCAGCTCTCATGTTTCTCCAGCACAGGGGCTGCTCCATGGAAGCAAAGGCTCT

>Alligator-novel-27-5p
GAGTCCATGCTCAGCTCTCATG

>Alligator-novel-27-3p
CAGGGGCTGCTCCATGGAAGCA

>Alligator-novel-35_pre
TAACCTTGTGTGACAGTAACTCCTTCTAGGAACATGTGCATCCAGCTTTCAGGAGGCTGTCTGTTCACACCAGGAAA

>Alligator-novel-35-5p
TGTGACAGTAACTCCTTCTAGG

>Alligator-novel-35-3p
CCAGGAGGCTGTCTGTTCACACCA

>Alligator-novel-36_pre
CTGTAGGAGTTTCTACCAGTACAGCTGTGCCAGTGAGGGCCTGAAGTGGTGTGATTCTTGACTGACATTGCTGTGCTAGCAGAAGCTCCTAGTA

>Alligator-novel-36-5p
CAGTACAGCTGTGCCAGTGAGG

>Alligator-novel-36-3p

TGACTGACATTGCTGTGCTAGCA

>Alligator-novel-39_pre

ACGAAGCAGGTATACTTAACTTCTGCTCTTCTTTTCATTNCATGTCTAACATTCCATGAAAGAAGGGTAGGAGTTGAGTACACNTGCTTCATCTGT

>Alligator-novel-39-5p

TTAACTTCTGCTCTTCTTTCA

>Alligator-novel-39-3p

AAAGAAGGGTAGGAGTTGAGTAT

>Alligator-novel-41_pre

CTGCTCCTTGCTTTTTTCTGCAACAGGTGCCAGTTCAGTCTGTAGTTTCTGTGGAAGTGGCGTCCGTTGCAGGGATGTGCGGGGAGCGTCC

>Alligator-novel-41-5p

TTCTGCAACAGGTGCCAGTTC

>Alligator-novel-41-3p

ACTGGCGTCCGTTGCAGGGAT

>Alligator-novel-42_pre

GCAGCACTGTGGGCTTGACCCAGAACCCACTGAAGTTAAGGGCAGAGTCCCGTTAGCTTCTGTGGGCTGTAGGTCAGGCTCCACGTGTTAT

>Alligator-novel-42-5p

TGACCCAGAACCCACTGAAGTT

>Alligator-novel-42-3p

CTTCTGTGGGCTGTAGGTCA

>Columba-let-7a-1_pre
CTGTGCTGTGGGATGAGGTAGTAGGTTGTATAGTTTTAGGGTCATACCCGCAACTGGGAGATAACTATAACAATCTACTGTCTTTTCCTAAAG

>Columba-let-7a-1-5p
TGAGGTAGTAGGTTGTATAGTT

>Columba-let-7a-1-3p
CTATAACAATCTACTGTCTTTTC

>Columba-let-7a-2_pre
TGCATCCAGGTTGAGGTAGTAGGTTGTATAGTTTTAGAATTACACCAAGGGAGATAACTGTACAACCTCCTAGCTTTTCCTT

>Columba-let-7a-2-5p
TGAGGTAGTAGGTTGTATAGTT

>Columba-let-7a-2-3p
CTGTACAACCTCCTAGCTTTTCC

>Columba-let-7a-3_pre
GTCCTTTGGGGTGAGGTAGTAGGTTGTATAGTTTTAGGGCTCTGCCCTGCCTGTACATAACTATAACAATCTACTGTCTTTTCCTGAAGTGG

>Columba-let-7a-3-5p
TGAGGTAGTAGGTTGTATAGTT

>Columba-let-7a-3-3p
CTATAACAATCTACTGTCTTTTC

>Columba-let-7a-4_pre
AGGTGAGGTAGTAGGTTGTATAGTTTTGGTGGGAGGGATTTGATCCCATTTTCAGGTGATAACTATAACAGTCTATTGCCTTCCTTAA

>Columba-let-7a-4-5p
TGAGGTAGTAGGTTGTATAGTT

>Columba-let-7a-4-3p
CTATAACAGTCTATTGCCTTCCCT

>Columba-let-7b_pre
GGATGAGGTAGTAGGTTGTGTGGTTTTTCAGGGTAGTGATTTTTGCCCCAGTCAGGAGATAACTATAACAACCTACTGCCTTCCCTGATAAGCAGCATAA

>Columba-let-7b_5p
TGAGGTAGTAGGTTGTGTGGTTTT

>Columba-let-7b-3p
CTATAACAACCTACTGCCTTCC

>Columba-let-7c_pre
GCATCCGGGTTGAGGTAGTAGGTTGTATGGTTTTAGAGTTACACCCTGGGAGTTAACTGTACAACCTTCTAGCTTTTCCTTGGAGCA

>Columba-let-7c-5p
TGAGGTAGTAGGTTGTATGGTT

>Columba-let-7c-3p
CTGTACAACCTTCTAGCTTTTCC

>Columba-let-7d_pre
TAGGAAGAGGTAGTAGGTTGCATAGTTTTAGGGCAGGGATTTTTGCTCACAAGGAGGTAACTATAACAACCTGCTGCCTTTCTTAGGGC

>Columba-let-7d-5p
AGAGGTAGTAGGTTGCATAGTT

>Columba-let-7d-3p
CTATAACAACCTGCTGCCTTTCT

>Columba-let-7e_pre
CTGTCTTTGAGGCTGAGGTAGTAGATTGAATAGTTGTGGAGTCCGATCCTCCCTTTGAGCAAACCTATAACAATCTACTGTCTTTTCCTAAGGAGA

>Columba-let-7e-5p
TGAGGTAGTAGATTGAATAGTT

>Columba-let-7e-3p
CTATAACAATCTACTGTCTTTTCC

>Columba-let-7f_pre

TTCTCTGTCAGAGTGAGGTAGTAGATTGTATAGTTGTAGGGTAGTTATTTTTACCCTGTTTCAGGAGATAACTATAACAATCTATTGCCTTCCCTGCGG
>Columba-let-7f-5p
TGAGGTAGTAGATTGTATAGTT
>Columba-let-7f-3p
CTATAACAATCTATTGCCTTCCC

>Columba-let-7g_pre
TTCTTGCCTGATTCCAGGCTGAGGTAGTAGTTTGTACAGTTTGTAGGGTCTATGATACCACCCGGTACAGGAGATAACTGTACAGGCCACTGCCTTG
>Columba-let-7g-5p
TGAGGTAGTAGTTTGTACAGTT
>Columba-let-7g-3p
CTGTACAGGCCACTGCCTTGCC

>Columba-let-7i_pre
CTGGCTGAGGTAGTAGTTTGTGCTGTTGGTCGGGTTGTGACATTGCCCGCTGTGGAGATAACTGCGCAAGCTACTGCCTTGCTA
>Columba-let-7i-5p
TGAGGTAGTAGTTTGTGCTGTTG
>Columba-let-7i-3p
CTGCGCAAGCTACTGCCTTGCT

>Columba-mir-1a-1_pre
CTGCTTGAGAGACATACTTCTTTTATATGCCCATATGAACCTGGGAAGCTATGGAATGTAAAGAAGTATGTATTTTCAGGTGG
>Columba-mir-1a-1-3p
TGGAATGTAAAGAAGTATGTAT
>Columba-mir-1a-1-5p
ACATACTTCTTTATATGCCCATA

>Columba-mir-1a-2_pre
GTACCTGCCCAGAGTACATACTTCTTTTATGTACCCATATGAACATACAATGCTATGGAATGTAAAGAAGTATGTATTTTTGGCAGGCAT
>Columba-mir-1a-2-3p
TGGAATGTAAAGAAGTATGTAT
>Columba-mir-1a-2-5p
ACATACTTCTTTATGTACCCATA

>Columba-mir-1b_pre
CCTCCCAACCCTACATACTTCTTTCATATACCCATATGGAGTCGGCCGGCGTTATGGAATGTTAAGAAGTATGTATTTTTGGGCTGG
>Columba-mir-1b-3p
TGGAATGTTAAGAAGTATGTATT
>Columba-mir-1b-5p
TACATACTTCTTTCATATACCCAT

>Columba-mir-7a-1_pre
GTTGGTCTAGTTCTGTGTGGAAGACTAGTGATTTTTGTTGTTTTTAGATAACTAAATTTGACAACAAATCGCAGTCTGCCATATAGCACAGACTGTG
>Columba-mir-7a-1-5p
TGGAAGACTAGTGATTTTTGTTGTT
>Columba-mir-7a-1-3p
CAACAAATCGCAGTCTGCCATA

>Columba-mir-7a-2_pre
GGTGGCCAGCTCCCTCTGGAAGACTAGTGATTTTTGTTGTTGTATGGCTCATCCCACCACAACAAGTCACAGTCTGCCCTAGGGTGCCTGGCCTC
>Columba-mir-7a-2-5p
TGGAAGACTAGTGATTTTTGTTGTT
>Columba-mir-7a-2-3p
CAACAAGTCACAGTCTGCCCTA

>Columba-mir-7a-3_pre
GGTGGTCTGGCTCTGCGTGGAAGACTAGTGATTTTTGTTGTTCTGATTTATAAAGGTGACAACAAATCATAGCTGCCACCCAGCCAGACCTGC

>Columba-mir-7a-3-5p
TGGAAGACTAGTGATTTTGTGTT
>Columba-mir-7a-3-3p
CAACAAATCATAGCCTGCCACC

>Columba-mir-7b_pre
CATCCCCGGGCAGGCTGGAAGACTTGTGATTTTGTGTTTCCAATGTCAACGGGAGCGAACAACAAATCCCAGTCTCCTCCCTGCCCCGGGCAC
>Columba-mir-7b-5p (predicted)
TGGAAGACTTGTGATTTTGTGTT

>Columba-mir-9-1_pre
TCAGGGGTTGGTTGTTATCTTTGGTTATCTAGCTGTATGAGTGGTGTGCGATTCTTTCATAAAGCTAGATAACCGAAAGTAAAAATAACCCCATTT
>Columba-mir-9-1-5p
TCTTTGGTTATCTAGCTGTATGA
>Columba-mir-9-1-3p
ATAAAGCTAGATAACCGAAAGTA

>Columba-mir-9-2_pre
AGGGAAGTGAGTTGTTATCTTTGGTTATCTAGCTGTATGAGTGTGTTTGGTCTTTCATAAAGCTAGATAACCGAAAGTAAAACTCCTTCAAG
>Columba-mir-9-2-5p
TCTTTGGTTATCTAGCTGTATGA
>Columba-mir-9-2-3p
ATAAAGCTAGATAACCGAAAGTA

>Columba-mir-9-3_pre
ACCTGGGTTGGTTTTTCTCTTTGGTTATCTAGCTGTATGAGTGTATGTGATATCATAAAGCTAGAGAACCGAATGTAAAAACCCGCTCGCTG
>Columba-mir-9-3-5p
TCTTTGGTTATCTAGCTGTATG
>Columba-mir-9-3-3p
TAAAGCTAGAGAACCGAATGTA

>Columba-mir-10a_pre
CTTCTATATGTACCCTGTAGATCCGAATTTGTGTAAAGGAAGTTGGGTCACAAATTCGTATCTAGGGGAATATGTAGTTG
>Columba-mir-10a-5p
TACCCTGTAGATCCGAATTTGTG
>Columba-mir-10a-3p
CAAATTCGTATCTAGGGGAATA

>Columba-mir-10b_pre
TTACGTTGTCTATATATACCCTGTAGAACCGAATTTGTGTGATATTCATATAGTCACAGATTTCGATTCTAGGGGAATATATGGTCGATGAAA
>Columba-mir-10b-5p
TACCCTGTAGAACCGAATTTGT
>Columba-mir-10b-3p
AGATTCGATTCTAGGGGAATA

>Columba-mir-10c_pre
CCCCGTCTCCTATATGTACCCTGTAGACTCGAATTTGTGTGAGCGTCTCCAGTCACAAATTCGTCTCTAGGGGAATATATGGGCGATGCCA
>Columba-mir-10c-5p
TACCCTGTAGACTCGAATTTG
>Columba-mir-10c-3p
CAAATTCGTCTCTAGGGGAATA

>Columba-mir-15a_pre
TTGGCATAACGTAGCAGCACATAATGGTTTGTGGGTTTTGAAAAGGTGCAGGCCATATTGTGCTGCCTCAAAAATACAA
>Columba-mir-15a-5p
TAGCAGCACATAATGGTTTGTG
>Columba-mir-15a-3p

CAGGCCATATTGTGCTGCCTC

>Columba-mir-15b_pre

AGGCCTTAAAGTACTCTAGCAGCACATCATGGTTTGCATGCTCTAATAAAGATGCGAATCATTATTTGCTGCTTTAGAAATTTAAGGAAG

>Columba-mir-15b-5p

TAGCAGCACATCATGGTTTGCA

>Columba-mir-15b-3p

CGAATCATTATTTGCTGCTTTA

>Columba-mir-15c_pre

GGGCTTTGAGGAGATGTAGCAGCACATCATGGTTTGTAGGGACAAGGAGATACAGACCATTCTGGGCTGCCTCATTACCTCAAGGATA

>Columba-mir-15c-5p

TAGCAGCACATCATGGTTTGTA

>Columba-mir-15c-3p

CAGACCATTCTGGGCTGCCTCA

>Columba-mir-16a-1_pre

TCTGTCATACTTTAGCAGCACGTAAATATTGGTGTAAAGACTGTAAATATCTCCAGTATTAACCTGTGCTGCTGAAGTAAGGCTAG

>Columba-mir-16a-1-5p

TAGCAGCACGTAAATATTGGTGT

>Columba-mir-16a-1-3p

TCCAGTATTAACCTGTGCTGCTGAA

>Columba-mir-16a-2_pre

TTCCGCCCTAGCAGCACGTAAATATTGGTGTAGTAAAATAAACCTTAAACCCCAATATTATTGTGCTGCTTAAGCGTGG

>Columba-mir-16a-2-5p

TAGCAGCACGTAAATATTGGTGT

>Columba-mir-16a-2-3p

CCCAATATTATTGTGCTGCTTAA

>Columba-mir-16b_pre

CTGTCAGCAGTGTCTAGCAGCACGTAAATACTGGAGTTTAGGATTGCCTGTTGCTCTCCAGTATTGCATTGCTGCTTTAGTGAGGCTGGAAA

>Columba-mir-16b-5p

TAGCAGCACGTAAATACTGGAGT

>Columba-mir-16b-3p

TCCAGTATTGCATTGCTGCTTT

>Columba-mir-17_pre

TGCGTCAGAGTAATGTCAAAGTGCTTACAGTGCAGGTAGTGATATATAGAACCCTACTGCAGTGAAGGCACTTGTAGCATTATGTTGACAGC

>Columba-mir-17-5p

CAAAGTGCTTACAGTGCAGGTA

>Columba-mir-17-3p

ACTGCAGTGAAGGCACTTGTAGC

>Columba-mir-18a_pre

AGTGCTTTTTTGTACTAAGGTGCATCTAGTGCAGATAGTGAAGTAGATTAGCATCTACTGCCCTAAGTGCTCCTTCTGGCATAAGAAGTTAT

>Columba-mir-18a-5p

TAAGGTGCATCTAGTGCAGATA

>Columba-mir-18a-3p

ACTGCCCTAAGTGCTCCTTCTGGC

>Columba-mir-18b_pre

GTTCTTGTGTTAAGGTGCATCTAGTGCAGTTAGTGAAGTAGCGTAGAATCTACTGCCCTAAATGCTCCTTCTGGCACAAGCTG

>Columba-mir-18b-5p

TAAGGTGCATCTAGTGCAGT

>Columba-mir-18b-3p

TGCCCTAAATGCTCCTTCTGGC

>Columba-mir-19a_pre
TTTGCAGTCTTCTGTTAGTTTTGCATAGTTGCACTACAAGAAGAGTGTAGTTGTGCAAATCTATGCAAAACTGATGGTGGCCTGTTAT
>Columba-mir-19a-3p
TGTGCAAATCTATGCAAAACTGA
>Columba-mir-19a-5p
GTTAGTTTTGCATAGTTGCACTA

>Columba-mir-19b-1_pre
CTCTGGTTAGTTTTGCAGGTTTGCATCCAGCTGTATGATACTCTGCTGTGCAAATCCATGCAAAACTGACTGTGG
>Columba-mir-19b-1-3p
TGTGCAAATCCATGCAAAACTGA
>Columba-mir-19b-1-5p
AGTTTTGCAGGTTTGCATCCAGC

>Columba-mir-19b-2_pre
CAGTGCTAATTACAGTCAGTTTTGCAGGTTTGCATCCCAGCTTACTAAAATTGCTGTGCAAATCCATGCAAAACTGACTGTGGTGGTGGTG
>Columba-mir-19b-2-3p
TGTGCAAATCCATGCAAAACTGA
>Columba-mir-19b-2-5p
AGTTTTGCAGGTTTGCATCCCAGC

>Columba-mir-20a_pre
CTTGTAGCACTAAAGTGCTTATAGTGCAGGTAGTGTTCACCTAATCTACTGCATTATAAGCACTTAAAGTACTGCTAGCTGTAG
>Columba-mir-20a-5p
TAAAGTGCTTATAGTGCAGGTA
>Columba-mir-20a-3p
ACTGCATTATAAGCACTTAAAGT

>Columba-mir-20b_pre
TAGTTTTGTCTAGCAGTATCAAAGTGCTCATAGTGCAGGTAGCTTTGAATTGAACCTACTGTAATGTGGGCACTTATAGTACTGCTAGATAAAGT
>Columba-mir-20b-5p
CAAAGTGCTCATAGTGCAGGTAG
>Columba-mir-20b-3p
ACTGTAATGTGGGCACTTATAGT

>Columba-mir-21_pre
TCCTGTCGGATAGCTTATCAGACTGATGTTGACTGTTGGATCTCATGGCAACAACAGTCGGTAGGCTGTCTGACATTT
>Columba-mir-21-5p
TAGCTTATCAGACTGATGTTGA
>Columba-mir-21-3p
AACAACAGTCGGTAGGCTGTC

>Columba-mir-22_pre
CAGCACCAGTTCTTTCAGTGGCAAGCTTTATGTCTTCTCTAGTAGCTAAAGCTGCCAGTTGAAGAAGTGTGAAAT
>Columba-mir-22-3p
AAGCTGCCAGTTGAAGAAGTGT
>Columba-mir-22-5p
AGTTCTTTCAGTGGCAAGCTTTA

>Columba-mir-23b_pre
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>Columba-mir-23b-3p
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>Columba-mir-23b-5p
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>Columba-mir-26-1_pre
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>Columba-mir-26-1-5p
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>Columba-mir-26-1-3p
CCTATTCTTTGGTTACTTGCCT

>Columba-mir-26-2_pre
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>Columba-mir-26-2-5p
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>Columba-mir-26-2-3p
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>Columba-mir-27b_pre
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>Columba-mir-27b-3p
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>Columba-mir-27b-5p
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>Columba-mir-29a-1_pre
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>Columba-mir-29a-1-3p
TAGCACCATTTGAAATCGGTTA

>Columba-mir-29a-1-5p
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>Columba-mir-29a-2_pre
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>Columba-mir-29a-2-3p
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>Columba-mir-29b-1_pre
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>Columba-mir-29b-1-3p
TAGCACCATTTGAAATCAGTGT

>Columba-mir-29b-1-5p
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>Columba-mir-29b-2_pre
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>Columba-mir-29b-2-3p
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>Columba-mir-30a_pre
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>Columba-mir-30a-5p
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>Columba-mir-30a-3p
CTTTTCAGTCGGATGTTTGCAGC

>Columba-mir-30c-1_pre
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>Columba-mir-30c-1-5p
TGTAACATCCTTACACTCTCAGCT

>Columba-mir-30c-1-3p

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>Columba-mir-30c-2_pre

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>Columba-mir-30c-2-5p

TGTAACATCCTACACTCTCAGCT

>Columba-mir-30c-2-3p

CTGGGAGAAGGCTGTTTACTCT

>Columba-mir-30d_pre

CGTGGTCCGGTGTGTAACATCCCCGACTGGAAGCTGTTCCCGTCCAGCTTTCAGTCAGATGTTTGCTGCACCTGGCTGCG

>Columba-mir-30d-5p

TGTAACATCCCCGACTGGAAGCT

>Columba-mir-30d-3p

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>Columba-mir-30e_pre

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>Columba-mir-30e-5p

TGTAACATCCTTGACTGGAAGCT

>Columba-mir-30e-3p

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>Columba-mir-31_pre

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>Columba-mir-31-5p

AGGCAAGATGTTGGCATTAGCTGT

>Columba-mir-31-3p

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>Columba-mir-32_pre

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>Columba-mir-32-5p

TATTGCACATTACTAAGTTGCA

>Columba-mir-32-3p

CAATTTAGTGTGTGCGATACT

>Columba-mir-33-1_pre

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>Columba-mir-33-1-5p

GTGCATTGTAGTTGCATTGCA

>Columba-mir-33-1-3p

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>Columba-mir-33-2_pre

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>Columba-mir-33-2-3p

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>Columba-mir-34a_pre

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>Columba-mir-34a-5p

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>Columba-mir-34a-3p

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>Columba-mir-34b_pre
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>Columba-mir-34b-5p
AGGCAGTGTAGTTAGCTGATTGT
>Columba-mir-34b-3p
AATCACTACACTCACTGCCATC

>Columba-mir-34c_pre
ATCAGCCTAGTTACTAGGCAGTGTAGTTAGCTGATTGCCAAAAGTACCAATCACTAGCCACACAGCCAGGTAAAAAGGCTTGG
>Columba-mir-34c-5p
AGGCAGTGTAGTTAGCTGATTGC
>Columba-mir-34c-3p
AATCACTAGCCACACAGCCAGG

>Columba-mir-92-1_pre
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>Columba-mir-92-1-3p
TATTGCACTTGTCCC GGCTGT
>Columba-mir-92-1-5p
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>Columba-mir-92-2_pre
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>Columba-mir-92-2-3p
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>Columba-mir-92-2-5p
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>Columba-mir-96_pre
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>Columba-mir-96-3p
CAATTATGTGTAGTGCCAATAT

>Columba-mir-99_pre
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>Columba-mir-99-5p
AACCCGTAGATCCGATCTTGTG
>Columba-mir-99-3p
CAAGCTCGCTTCTATGGGTCTG

>Columba-mir-100-1_pre
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AACCCGTAGATCCGAACTTGTG
>Columba-mir-100-1-3p
CAAGCTTGTATCTATAGGTATG

>Columba-mir-101-1_pre
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>Columba-mir-101-1-3p
TACAGTACTGTGATAACTGAA
>Columba-mir-101-1-5p
CAGTTATCACAGTGTGATGCT

>Columba-mir-101-2_pre
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>Columba-mir-101-2-3p
GTACAGTACTGTGATAACTGAAG
>Columba-mir-101-2-5p
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>Columba-mir-103-1_pre
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>Columba-mir-103-1-3p
AGCAGCATTGTACAGGGCTATGA

>Columba-mir-103-2_pre
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>Columba-mir-103-2-3p
AGCAGCATTGTACAGGGCTATGA
>Columba-mir-103-2-5p
AGCTTCTTTACAGTGCTGCCTTG

>Columba-mir-106_pre
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>Columba-mir-106-5p
AAAAGTGCTTACAGTGCCAGGTAG
>Columba-mir-106-3p
ACTGCAGTATAAGCACTTCTGG

>Columba-mir-107_pre
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>Columba-mir-107-3p
AGCAGCATTGTACAGGGCTAT
>Columba-mir-107-5p
AGCTTCTTTACAGTGTTGCCTTG

>Columba-mir-122_pre
CTGCCCGAGCTGTGGAGTGTGACAATGGTGTGTTGTGTCCTGGCTATCAAACGCCATTATCACACTAAATAGCTACTGGTAGACA
>Columba-mir-122-5p
TGGAGTGTGACAATGGTGTGTTG
>Columba-mir-122-3p
AACGCCATTATCACACTAAATA

>Columba-mir-124-1_pre
CCAAGGCTCTGACTCTCCGTGTTTCACAGCGGACCTTGATTTAATGTCCATACAATTAAGGCACGCGGTGAATGCCAAGAGCGGATCCTCAA
>Columba-mir-124-1-3p
TAAGGCACGCGGTGAATGCCAA
>Columba-mir-124-1-5p
CGTGTTCACAGCGGACCTTGA

>Columba-mir-124-2_pre
CCCAGCCCCCTCTCTGCGTGTTCACAGCGGACCTTGATTTAATGTCCATACAATTAAGGCACGCGGTGAATGCCAAGAGAGGAGCCTCACA
>Columba-mir-124-2-3p
TAAGGCACGCGGTGAATGCCAA
>Columba-mir-124-2-5p
CGTGTTCACAGCGGACCTTGAT

>Columba-mir-125-1_pre
GTTGCGCCCCCTCTCAATCCCTGAGACCCTAACTTGTGATGTTTAGCTTTTAAATCCACGGGTAGGCTCTTGGGAGCTGTGAGTTGTGCTTT
>Columba-mir-125-1-5p

TCCCTGAGACCCTAACTTGTGA
>Columba-mir-125-1-3p
ACGGGTTAGGCTCTTGGGAGCT

>Columba-mir-125-2_pre
GGACTTTTCCTAGTCCCTGAGACCCTAACTTGTGAGGTTTTTTTAGCAACAATCACAAGTCAGGCTCTTGGGACCTAGGCGGAGGGG
>Columba-mir-125-2-5p
TCCCTGAGACCCTAACTTGTGA
>Columba-mir-125-2-3p
ACAAGTCAGGCTCTTGGGACCT

>Columba-mir-126_pre
ACCGCTGGTGACGGCCCATTTACTTTTTGGTACGCGCTGTGACACTTCAAACCTCGTACCGTGAGTAATAATGCGCTGTGGCCAGCACG
>Columba-mir-126-5p
CATTATTACTTTTTGGTACGCGC
>Columba-mir-126-3p
TCGTACCGTGAGTAATAATGCG

>Columba-mir-128-1_pre
GAGCTGTTGGATTTCGGGGCCGTAACACTGTCTGAGAGGTTTACATTTCTCACAGTGAACCGGTCTCTTTTTTTCAGCTGCTTCCTG
>Columba-mir-128-1-3p
TCACAGTGAACCGGTCTCTTT

>Columba-mir-128-2_pre
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>Columba-mir-128-2-3p
TCACAGTGAACCGGTCTCTTT
>Columba-mir-128-2-5p
GGGGGCCGTTTACTGTAAAGA

>Columba-mir-129_pre
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>Columba-mir-129-5p
CTTTTTTGCGGTCTGGGCTTGC
>Columba-mir-129-3p
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>Columba-mir-130a_pre
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>Columba-mir-130a-3p
CAGTGCAATGTTAAAAGGGCAT
>Columba-mir-130a-5p
GCCCTTTTTTATGTTGTACTACT

>Columba-mir-130c_pre
GTGCTGTTGTCCAGAGCCCTTTTTTCTGTTGTACTACTGGCAATTATGATGAGCAGTGCAATATTTAAAAGGGCATTTGGCTGGCAGAAA
>Columba-mir-130c-3p
CAGTGCAATATTTAAAAGGGCAT
>Columba-mir-130c-5p
GCCCTTTTTTCTGTTGTACTACT

>Columba-mir-133a-1_pre
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TTTTGGTCCCCTTCAACCAGCTGT
>Columba-mir-133a-1-5p
AGCTGGTAAAATGGAACCAAATC

>Columba-mir-133a-2_pre
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>Columba-mir-133a-2-3p
TTTGGTCCCCTTCAACCAGCTGT
>Columba-mir-133a-2-5p
AGCTGGTAAAATGGAACCAAATC

>Columba-mir-133b_pre
TATGCTCTGCTCTGGCTGGTCAAACGGAACCAAGCCCATCTTCCTCGGAGGTTTGGTCCCCTTCAACCAGCTATAGCAGTGTGTA
>Columba-mir-133b-3p
TTTGGTCCCCTTCAACCAGCTA
>Columba-mir-133b-5p
GCTGGTCAAACGGAACCAAGCC

>Columba-mir-133c_pre
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>Columba-mir-133c-3p
TTTGGTCCCCTTCAACCAGCTGC

>Columba-mir-135-1_pre
TGCTGTCTTGTATGGCTTTTTATTCCCTATGTGATTATAACATCCCACCTTCATATAGGGATTGAAGCCGTGCAATACACTG
>Columba-mir-135-1-5p
TATGGCTTTTTATTCCCTATGTGA
>Columba-mir-135-1-3p
ATATAGGGATTGAAGCCGTGCA

>Columba-mir-135-2_pre
CTAGTGTTTTATGGCTTTTTATTCCCTATGTGATAGTAATAAAGTCTCATGTAGGGATGGAAGCCATGAAATACATT
>Columba-mir-135-2-5p
TATGGCTTTTTATTCCCTATGTGA
>Columba-mir-135-2-3p
ATGTAGGGATGGAAGCCATGAA

>Columba-mir-135-3_pre
TAAGCCCTCTGCTGTGGTTTTATGGCTTTTTATTCCCTATGTGATTGCTTTTCCCTAACTCATGTAGGGCGAAAAGCCATGGGCTACACAGAGGAGGGA
>Columba-mir-135-3-5p
TATGGCTTTTTATTCCCTATGTGA
>Columba-mir-135-3-3p
ATGTAGGGCGAAAAGCCATGGG

>Columba-mir-137a_pre
CTGACTCTCTTCGGTGACGGGTATTCTTGGGTGGATAATAACGGATTACGTTGTTATTGCTTAAGAATACGCGTAGTCGAGGAGAGTACC
>Columba-mir-137a-3p
TTATTGCTTAAGAATACGCGTAG
>Columba-mir-137a-5p
ACGGGTATTCTTGGGTGGATAAT

>Columba-mir-137b_pre
CCCCTCCCCTTCGGCAACGGGTATTCTCGGGCGGATAATAACGGACGCGCTGTTATTGCTTGAGAATACGCGTAGCCGAGGGGACGCC
>Columba-mir-137b-3p
TTATTGCTTGAGAATACGCGTAG
>Columba-mir-137b-5p
ACGGGTATTCTCGGGCGGATAAT

>Columba-mir-138-1_pre
TCAGGTGCCGTGCAGCAGCTGGTGTGTGAATCAGGCCGTCACCAGTCGGAGAACGGCTACTTCACAACACCAGGGTCGCACCCGACCACA

>Columba-mir-138-1-5p
AGCTGGTGTGTGAATCAGGCCG
>Columba-mir-138-1-3p
GCTACTTCACAACACCAGGGT

>Columba-mir-138-2_pre
CCCCGATTGGTGCTGCAGCTGGTGTGTGAATCAGGCCGACGACAAGCGCATCCTACTATCCGGCTATTTCACTACACCAGGGTTGCATCATAACC
>Columba-mir-138-2-5p
AGCTGGTGTGTGAATCAGGCCG
>Columba-mir-138-2-3p
GCTATTTCACTACACCAGGGT

>Columba-mir-139_pre
CCAGGCCTGGCTGTATTCTACAGTGCATGTGTCTCCAGTGTGAGTAAGTGAAGTGGAGATGCAGCCCTGTTGGAATAACAACCGGGACCACA
>Columba-mir-139-5p
TCTACAGTGCATGTGTCTCCAGT
>Columba-mir-139-3p
TGGAGATGCAGCCCTGTTGGAAT

>Columba-mir-140_pre
TCCGTGTCCTGCCAGTGGTTTTACCCTATGGTAGGTTACGTCATGCTGTTCTACCACAGGGTAGAACCACGGACGGGATGCTGG
>Columba-mir-140-3p
ACCACAGGGTAGAACCACGGAC
>Columba-mir-140-5p
CAGTGGTTTTACCCTATGGTAG

>Columba-mir-142_pre
GAGACAGTGCAGTCAACCATAAAGTAGAAAGCACTACTAAACAGCACTGCAGGGTGTAGTGTTCCTACTTTATGGATGAGTGTACTGTGGG
>Columba-mir-142-5p
CATAAAGTAGAAAGCACTACT
>Columba-mir-142-3p
TAGTGTTCCTACTTTATGGA

>Columba-mir-143_pre
ATGTCTCCCAGCCCAAGGTGCAGTGTCTGCATCTCTGGTCAATTGGGAGTCTGAGATGAAGCACTGTAGCTCGGGAAGGGAGGAACTGC
>Columba-mir-143-3p
TGAGATGAAGCACTGTAGCTC
>Columba-mir-143-5p
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>Columba-mir-144_pre
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>Columba-mir-144-3p
TACAGTATAGATGATGTACTC
>Columba-mir-144-5p
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>Columba-mir-145_pre
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>Columba-mir-145-5p
GTCCAGTTTTCCAGGAATCCCT
>Columba-mir-145-3p
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>Columba-mir-146a_pre
CGTGTATTCTCAGCTTTGAGAAGTGAATTCATGGGTTGTAATTGAATTCGCTGTCAGACCCATGGGGCTCAGTTCCTCAGCTTGGATATTTTC
>Columba-mir-146a-5p

TGAGAACTGAATTCCATGGGTTG
>Columba-mir-146a-3p
ACCCATGGGGCTCAGTTCTTCA

>Columba-mir-146b_pre
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TGAGAACTGAATTCCATAGGCATT
>Columba-mir-146b-3p
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>Columba-mir-146c_pre
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>Columba-mir-146c-5p
TGAGAACTGAATTCCATGGACTG
>Columba-mir-146c-3p
GTCCATGGTATTTCAGTTCTCTAG

>Columba-mir-147_pre
GGTACCCTATGAATCTAGTGGAACTCACTTCTGCACAAACTTGACTACTGAAATCAGTGTGCGGAAATGCTTCTGCTACATTTTTAGGGTCTC
>Columba-mir-147-3p
GTGTGCGGAAATGCTTCTGCTA

>Columba-mir-148a_pre
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>Columba-mir-148a-3p
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>Columba-mir-148a-5p
AAAGTTCTGTGACACTCCGACT

>Columba-mir-148b_pre
GCGCCCGGGCGAGGTTCTGTCTTACACTCCGGCTGTAGCTACAGACAGTCAGTGCATCACAGAACTTGGTCCCGGGAGC
>Columba-mir-148b-3p
TCAGTGCATCACAGAACTTGGT
>Columba-mir-148-5p
GAGGTTCTGTCTTACACTCCGGCT

>Columba-mir-153a_pre
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>Columba-mir-153a-3p
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>Columba-mir-153a-5p
TCATTTTTGTGATTTGCAGCT

>Columba-mir-153b_pre
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>Columba-mir-153b-3p (predicted)
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>Columba-mir-153b-5p
GTCATTTTTGTGATGTTGCAGCT

>Columba-mir-155_pre
TGTAGGCTGTATGTTGTTAATGCTAATCGTGATAGGGGTTTTTACCTCTGACTGACTCCTACATATTAGCATTAACACTGTATCATGCCTCTT
>Columba-mir-155-5p
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>Columba-mir-181a-1_pre

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>Columba-mir-181a-1-5p
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>Columba-mir-181a-1-3p
ACCATCGACCGTTGATTGTACC

>Columba-mir-181a-2_pre
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>Columba-mir-181a-2-5p
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>Columba-mir-181a-2-3p
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>Columba-mir-181b-1_pre
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>Columba-mir-181b-1-5p
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>Columba-mir-181b-1-3p
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>Columba-mir-181b-2_pre
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>Columba-mir-181b-2-5p
AACATTTCATTGCTGTCGGTGGGTT
>Columba-mir-181b-2-3p
CTCACTGATCAATGAATGCAA

>Columba-mir-182_pre
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>Columba-mir-182-5p
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>Columba-mir-182-3p
TGGTTCTAGACTTGCCAACCT

>Columba-mir-183_pre
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>Columba-mir-183-5p
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>Columba-mir-183-3p
TGAATACCATAGGGCCATAAA

>Columba-mir-184_pre
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>Columba-mir-184-5p
CCTTATCACTTTTCCAGCCCAGC

>Columba-mir-187_pre
TATTGTGAGACCTCCGGCTACAACACAGGACATGGGAGCTTTTCTGAACCCCTCGTGTCTTGTGTTGCAGCCAGAGGGGCACATCT
>Columba-mir-187-3p
TCGTGTCTTGTGTTGCAGCCA
>Columba-mir-187-5p
GCTACAACACAGGACATGGGAG

>Columba-mir-190_pre
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>Columba-mir-190-5p
TGATATGTTTGATATATTAGGTT
>Columba-mir-190-3p
ACTATATATCAAACATATTCCT

>Columba-mir-193_pre
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>Columba-mir-193-3p
AACTGGCCCACAAAGTCCCCT
>Columba-mir-193-5p
CGGGGTTTTGGGGGCGAGATGA

>Columba-mir-194_pre
CATGGGCGCTCTCAGATGTAACAGCAACTCCATGTGGACTACACTGACTTCCAGTGGAGATGCTGTTACTTTTTGATAGCCTCTCA
>Columba-mir-194-5p
TGTAACAGCAACTCCATGTGGAC
>Columba-mir-194-3p
CCAGTGGAGATGCTGTTACTTT

>Columba-mir-196-1_pre
CTCTGTGAATTAGGTAGTTTTTCATGTTGTTGGGCTTTTAAATTTTAAACACAAGAACATCAAACCTACCTGATTTACTCC
>Columba-mir-196-1-5p
TAGGTAGTTTTTCATGTTGTTGGG
>Columba-mir-196-1-3p
CAAGAACATCAAACCTACCTGAT

>Columba-mir-196-2_pre
TGCAGCTGATCTGTGGTTTTAGGTAGTTTTTCATGTTGTTGGGATTGGCTTTTAGCTCGGCAACAAGAACTGCCTTAATTACGTCAGTTAGTCT
>Columba-mir-196-2-5p
TAGGTAGTTTTTCATGTTGTTGGG

>Columba-mir-196-3_pre
GAGAACTGCTCTGTGGTTTTAGGTAGTTTTTCATGTTGTTGGGGCTCCACCTTTCTCTCTACAGCACGAAACTGCCTTAATTACTTCAGTTGAT
>Columba-mir-196-3-5p
TAGGTAGTTTTTCATGTTGTTGGG
>Columba-mir-196-3-3p
CTACAGCACGAAACTGCCTTAA

>Columba-mir-199-1_pre
AGATCCTGCTCCGTCGCCCCAGTGTTTCAGACTACCTGTTTCAGGACAATGCTGTTGTACAGTAGTCTGCACATTGGTTAGACTGGGCAAGGGAAA
>Columba-mir-199-2_pre
CTCCGTCTGCCAGTGTTTCAGACTACCTGTTTCAGGACTACGAGATTGTACAGTAGTCTGCACATTGGTTAGGCTGTGC
>Columba-mir-199-1-3p
TACAGTAGTCTGCACATTGGTTA
>Columba-mir-199-1-5p
CCCAGTGTTTCAGACTACCTGTTTC

>Columba-mir-200a_pre
CCATGGTCTCTGTGGGCATCTTACTAGACAGTGCTGGATTTTTTTGGATCTACTCTAACACTGTCTGGTAACGATGTTTAAAGGGTGAACCAAAC
>Columba-mir-200a-3p
TAACACTGTCTGGTAACGATGTT
>Columba-mir-200a-5p
CATCTTACTAGACAGTGCTGGA

>Columba-mir-200b_pre
CCTGAGATGCCATTACCATCTTACTGGGCAGCATTGGATGTTTTCTGTCTTTCTAATACTGCCTGGTAATGATGATTATGGTGTTCGTG
>Columba-mir-200b-3p

TAATACTGCCTGGTAATGATGAT
>Columba-mir-200b-5p
CATCTTACTGGGCAGCATTGGA

>Columba-mir-202_pre
TGACTCGTTGTTCCCTTTTCCCTATGCATATACTTCTTTGAGAATTTGATCTAAAGAGGCATAGGGCATGGGAAAATGGGGCGACTGAGGTA
>Columba-mir-202-5p
TTCCTATGCATATACTTCTTT

>Columba-mir-204-1_pre
TCATGTGACCCGTGGACTTCCCTTTGTGCATCCTATGCCTGAGAATATATGAAGGGGGCTGGGAAGGCAAAGGGACGTTCAACTGTCATCACTGG
>Columba-mir-204-1-5p
TTCCTTTGTGCATCCTATGCCT
>Columba-mir-204-1-3p
GCTGGGAAGGCAAAGGGACGT

>Columba-mir-204-2_pre
TGTGGGCTTCCCTTTGTGCATCCTATGCCTGGAGATCACAGTGAGGCAGGGACAGCAAAGGGATGCTCAGCTGTCGTC
>Columba-mir-204-2-5p
TTCCTTTGTGCATCCTATGCCT
>Columba-mir-204-3p
GCAGGGACAGCAAAGGGATGC

>Columba-mir-204-3_pre
CCCCCTGTGAGCTTCCCTTTGTGCATCCTATGCCTGAGCCATGGCCGAGGCTGGGACGGTGAAGGGAGGCCACGGGCTG
>Columba-mir-204-3-5p
TTCCTTTGTGCATCCTATGCCT
>Columba-mir-204-3-3p
GCTGGGACGGTGAAGGGAGGC

>Columba-mir-205a_pre
CAATCCATGGGTTCTGTTGTCTTTCATTCCACCGGAGTCTGTCTCATACTAAACCAGATTTTCAGTGGAGTGAAGTACGAGAGACATGGAGAT
>Columba-mir-205a-5p
TCCTTCATTCCACCGGAGTCTG
>Columba-mir-205a-3p
GATTTTCAGTGGAGTGAAGTACG

>Columba-mir-205b_pre
CTTGGCACCTTTCATTCCACCGGAATCTGTCTATAACAGAAACCAGATTTTCAGTGAAATGAAGCCTGTCAGAGAGGCAG
>Columba-mir-205b-5p
CCCTTCATTCCACCGGAATCTG
>Columba-mir-205b-3p
GATTTTCAGTGAAATGAAGCCTG

>Columba-mir-206_pre
TTCTCTTATGAGATTACATGCTTCTTTATATCCCCATAGGGATTAGGCTGCTATGGAATGTAAGGAAGTGTGTGGTTTCAGGGAGA
>Columba-mir-206-3p
TGGAATGTAAGGAAGTGTGTGG
>Columba-mir-206-5p
ACATGCTTCTTTATATCCCCATA

>Columba-mir-210_pre
CCCTCCAGGAGCAGGTGAGCCACTGACTAACGCACATTTGTGCTCTCGGGCACTCCACTGTGCGTGTGACAGCGGCTAACCTGCTCCTCGGACAT
>Columba-mir-210-3p
CTGTGCGTGTGACAGCGGCTAA
>Columba-mir-210-5p
AGCCACTGACTAACGCACATTTG

>Columba-mir-214_pre
GGAGTTGTCATGTGTCTGCCTGTCTACACTTGCTGTGCAGAACATCCTCTCACCTGTACAGCAGGCACAGACAGGCAGTCGCATGACAACCCAGC
>Columba-mir-214-3p
ACAGCAGGCACAGACAGGCAGT
>Columba-mir-214-5p
TGCCTGTCTACACTTGCTGTGC

>Columba-mir-215_pre
ACTGGTGTCCAGGAAAATGACCTATGAATTGACAGACTGCTTTCTAAACTTGCCCTGTCAATTTCTATAGGCCAATATTCTGCACACTTTC
>Columba-mir-215-5p
ATGACCTATGAATTGACAGACT
>Columba-mir-215-3p
CCTGTCAATTTCTATAGGCCAATA

>Columba-mir-216a_pre
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>Columba-mir-216a-5p
TAATCTCAGCTGGCAACTGTGA
>Columba-mir-216a-3p
CACAGTGGTATCTGGGATTATG

>Columba-mir-216b_pre
GTCGCAGACTGGGAAATCTCTGCAGGCAAATGTGATGTCTTTATAGCAATCTCACAATTACCTGTAGAGATTCTACAATCTGGCACC
>Columba-mir-216b-5p
AAATCTCTGCAGGCAAATGTGA
>Columba-mir-216b-3p
ACAATTACCTGTAGAGATTCTA

>Columba-mir-217_pre
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>Columba-mir-217-5p
ATACTGCATCAGGAACTGATTG
>Columba-mir-217-3p
ATCAGTTCCCTAATGCATTGCCT

>Columba-mir-218-1_pre
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>Columba-mir-218-2_pre
GTTTGTGGGGTTTTCTTTGTGCTTGATCTAACCATGTGGTGTAGAACAAATACAAATGGAACATGGTTCTGTCAAGCACCATGGAAGGCTGCATACTC
>Columba-mir-218-5p
TTGTGCTTGATCTAACCATGT
>Columba-mir-218-3p
ATGGTTCTGTCAAGCACCATG

>Columba-mir-219_pre
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>Columba-mir-219-3p
AGAATTGTGTCTGGACATCTGT
>Columba-mir-219-5p
TGATTGTCCAAACGCAATTCTTG

>Columba-mir-221_pre
TGGGGCATGAACCTGGCATAACAATGTAGATTTCTGTGTTTGTAAAGCAACAGCTACATTGTCTGCTGGGTTTCCAGC
>Columba-mir-221-3p
AGCTACATTGTCTGCTGGGTTT
>Columba-mir-221-5p

ACCTGGCATAACAATGTAGATTT

>Columba-mir-222a_pre

TGTAGTTGCTCATCAATCGCTCAGTAGTCAGTGTAGATCCTGTCTTTACAATCAGCAGCTACATCTGGCTACTGGGTCTCTGATGACAACTCGT

>Columba-mir-222a-3p

AGCTACATCTGGCTACTGGGTCTC

>Columba-mir-222a-5p

CGCTCAGTAGTCAGTGTAGATCC

>Columba-mir-222b_pre

CAATGGTGCTCTTGGCTGCTCAGTAGTCGGTGTAGGATCTGTCTGACAGTCTCGCTAACAGCTACATCTGATTACTGGGTACACAAAGGGTGACCA

>Columba-mir-222b-3p

AGCTACATCTGATTACTGGGTCACT

>Columba-mir-223_pre

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>Columba-mir-223-3p

TGTCAGTTTGTCAAATACCCCA

>Columba-mir-223-5p

CGTGTATTTGACAAGCTGAGTCC

>Columba-mir-301a_pre

CTGCTAACGAACGCTCTGACTTTATTGCACTACTGTACTTCCCAGCTAGCAGTGCAATAGTATTGTCAAAGCATCCGAAAGCAG

>Columba-mir-301a-3p

CAGTGCAATAGTATTGTCAAAGCAT

>Columba-mir-301a-5p

GCTCTGACTTTATTGCACTACT

>Columba-mir-301b_pre

GCTGGTATCGCTGGCTCTGACAATGTTGCACTACTGTCTGCACAAATAAAGCAGTGCAATAATATTGTCAAAGCATTTGGTTCCAGTCCCT

>Columba-mir-301b-3p

CAGTGCAATAATATTGTCAAAGC

>Columba-mir-301b-5p

TCTGACAATGTTGCACTACT

>Columba-mir-302a_pre

CCATAACTTAAATGTGGATGTACTTGTCTTGTTCCTGAAAAGTAAGTGCTTCCATGTTTTGGTGATGG

>Columba-mir-302a-3p (predicted)

AAGTGCTTCCATGTTTTGGTGAT

>Columba-mir-302b-1_pre

CTTTTACTTTAACATGGAGGTGCTTTCTGTGACTTAAAAGAAGTAAGTGCTTCCATGTTTTAGTAGAGG

>Columba-mir-302b-2_pre

CCTCTACTTTAACATGGGAGGTACTTGTCTGGATGCCTAAAAAAGTAAGTGCTTCCATGTTTTAGTTGTGG

>Columba-mir-203b_3p

AAGTGCTTCCATGTTTTAG

>Columba-mir-302c_pre

TAATGGGACTCCCTTTGCTTTAACATGGAGGTACCTGCTGCTTAGAAAAGTAAGTGCTTCCATGTTTTCAGTGGCGGTGGATCCTAATT

>Columba-mir-302c-3p

AAGTGCTTCCATGTTTTCAGTGG

>Columba-mir-338a_pre

AATGTTTTACTTCTAGCAACACTATCCTGATGCTGTGAGAGTAAGTGGTAAAGCTCCAGCATCAGTGATTTTGTGTAGTGGTAAATTCA

>Columba-mir-338a-3p

TCCAGCATCAGTGATTTTGTGT

>Columba-mir-338a-5p

AACTATCCTGATGCTGTCAGAGT

>Columba-mir-338b_pre

ACTGCTGCTCCTCCTGCCCAACAATATCCTGGTGTGAGTGAGTTGCAGACAGAGACTCCAGCATCAGTGATTTTGTGAGGAGGGGGTGCAGTGC

>Columba-mir-338b-3p

TCCAGCATCAGTGATTTTGTGTTGA

>Columba-mir-338b-5p

AACAATATCCTGGTGTGAGTA

>Columba-mir-363_pre

TTTGTGTTGCTGTTGTGCGGGTGGATCACGATGCAATTTTGTATTAGTTTAGTAGGAGAAAAATTGCACGGTATCCATCTGTAAACCGCAAGACCTT

>Columba-mir-363-3p

AATTGCACGGTATCCATCTGT

>Columba-mir-363-5p

GGGTGGATCACGATGCAATTTT

>Columba-mir-365-1_pre

ACCGCAGGGAAAAATGAGGGACTTTTGGGGCAGATGTGTTTCCATTACACTATCATAATGCCCTAAAAATCCTTATTGCTCTTGCAGT

>Columba-mir-365-1-3p

TAATGCCCTAAAAATCCTTA

>Columba-mir-365-1-5p

AGGGACTTTTGGGGCAGATGTG

>Columba-mir-365-2_pre

GCAAGAAAAATGAGGGACTTTTCAGGGGCAGCTGTGTTTGTCTAACCCAGTCATAATGCCCTAAAAATCCTTATTGTTCTTGCAAT

>Columba-mir-365-2-3p

TAATGCCCTAAAAATCCTTAT

>Columba-mir-365-2-5p

GAGGGACTTTTCAGGGGCAGCTGT

>Columba-mir-367_pre

AGGCTAATACTGTTGCTAATATGCAACTCTGTTGTATAAAAAATTGGAATTGCACCTTTAGCAATGGTGATGGACTG

>Columba-mir-367-3p (predicted)

AATTGCACCTTTAGCAATGGTGA

>Columba-mir-375_pre

CCTGGCGTCGAGCCCCACGTGCAAGACCTGACCTGAACGTTTTGTTTCGTTTCGGCTCGCGTTAGGCAGGTCCA

>Columba-mir-375-3p

TTTGTTCGTTTCGGCTCGCGTTA

>Columba-mir-375-5p

GCGTCGAGCCCCACGTGCAAGAC

>Columba-mir-383_pre

ACCTGCTCCTCAGATCAGAAGGTGATTGTGGCTTTGAATAGCTATTAAGCAGCCACAGCACTACCTGGTCAGAAAGAGCAAGT

>Columba-mir-383-5p

CAGATCAGAAGGTGATTGTGGCT

>Columba-mir-383-3p

CCACAGCACTACCTGGTCAGA

>Columba-mir-425_pre

GAGAGACGGCTTTGGAATGACACGATCACTCCCGCTGAGCGGGCAGCCTGAGGCCATCGGGGATGTCGTGTCTGTCCAAAGCTCTTTTCGGT

>Columba-mir-425-5p

AATGACACGATCACTCCCGCTGAG

>Columba-mir-425-3p

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>Columba-mir-429_pre

AAGTGCCTGCTGATTGCTGTCTTACCAGGCAAAGTTAGATCTAGCTATTTTTGTCTAATACTGTCTGGTAATGCCGTCAATCGCATCGGCAAAA
>Columba-mir-429-3p
TAATACTGTCTGGTAATGCCGT
>Columba-mir-429-5p
GTCTTACCAGGCAAAGTTAGAT

>Columba-mir-449a_pre
ATCTGTGTGGGATGGGATGGCAGTGTGTGTTAGCTGGTTGAAATTCTGACATCAGCTAACATGCAGTTGCTATCCTTTTCCACATACCT
>Columba-mir-449a-5p
TGGCAGTGTGTGTTAGCTGGT

>Columba-mir-449b_pre
CTGTGTCTGGTAGGCAGTGTACTGCTAGCTGGCTGCCGTATCTGGATGGAGCAGTCACTCCTGCACTGCCACCTGCTGCAGGGCTGG
>Columba-mir-449b-5p
AGGCAGTGTACTGCTAGCTGGCTGC
>Columba-mir-449b-3p
AGTCACTCCTGCACTGCCACT

>Columba-mir-449c_pre
AGAATGTAACAGTCTGGCAGTGCATGTTAGCTGGCTGTTGTGTCTGATGTGTCAACAGCTGCTAGCTGTGCTCCACATTGTTTCATTCAAA
>Columba-mir-449c-5p
TGGCAGTGCATGTTAGCTGGCTGTT
>Columba-mir-449c-3p
CAGCTGCTAGCTGTGCTCCAC

>Columba-mir-449d_pre
GTGTGTGGTGATGAGGCAGTGTATTGTTAGTTAGCTGTTCTTCATACACCAGCAACTGACTTACACTGCCACATCAACACATCACTGAGA
>Columba-mir-449d-5p
AGGCAGTGTATTGTTAGTTAGCTG
>Columba-mir-449d-3p
GCAACTGACTTACACTGCCACA

>Columba-mir-451_pre
GCCGGCGGGAAACCGTTACCATTACTGTGTTTTAGTAATGGTAATGGTTCTGCCGACGGCTGG
>Columba-mir-451-5p
AAACCGTTACCATTACTGTGTTTT

>Columba-mir-454_pre
TAAGGATGAGACCCTATCAATATTGCCTCTGCTTTTGTGATCAGGGTAGTAGTGAATATTGCTTATAGGGTCTTTTCTTTTGGAGGGTT
>Columba-mir-454-3p
TAGTGAATATTGCTTATAGGGTCT
>Columba-mir-454-5p
ACCCTATCAATATTGCCTCTGCT

>Columba-mir-455_pre
CCCTGGTGTGAGGGTATGTGCCCTTGGACTACATCGTGGAAAGCCAGCACCATGCAGTCCATGGGCATATACACTTGCCTCAAGG
>Columba-mir-455-5p
TATGTGCCCTTGGACTACATCGT
>Columba-mir-455-3p
TGCAGTCCATGGGCATATACAC

>Columba-mir-456_pre
GTGTGTGAGCAGGCATCTTCTCAGCCTACACGTGGATTCCCTAAATCTGCAGGCTGGTTAGATGGTTGTCATGCATTC
>Columba-mir-456-3p
CAGGCTGGTTAGATGGTTGTC

>Columba-mir-458_pre

CGTGGTGCAGATGGCAGCGCCATTTCCAGAGCTATAAACAGTCTCATTGTCATAGCTCTTTGAATGGTACTGCCATATGTACCGGA
>Columba-mir-458-3p
ATAGCTCTTTGAATGGTACTGC
>Columba-mir-458-5p
AGCGCCATTTCCAGAGCTATAA

>Columba-mir-459-pre
TTAGGTTTTGCACTCAGTAACAAGGATTCATCCTCGTTTTCTGGCAAATAACGGGGAGAATCTTTGTCACTAAGTGCAATTAATAGC
>Columba-mir-459-5p (predicted)
TCAGTAACAAGGATTCATCCT

>Columba-mir-460a_pre
ACCTGACTTTATAGCACCTGCATTGTACACACTGTGTGATTGACTGGAAATGCACAGCGCATAACAATGTGGATTCTGTAGAAGTCACTC
>Columba-mir-460a-5p
CCTGCATTGTACACACTGTGTG
>Columba-mir-460a-3p
CACAGCGCATAACAATGTGGATT

>Columba-mir-460b_pre
CTCTGGCTCTATAGTGTCTCATTGTACATGCTGTGTGATTTGTACAGTACACAGCGCATGCAATGTGGACATAATGGAGCTCAATT
>Columba-mir-460b-5p
TCCTCATTGTACATGCTGTGT
>Columba-mir-460b-3p
ACAGCGCATGCAATGTGGACA

>Columba-mir-489_pre
GGCTTGGTGGTTCGTATGTATGACGTCATTTACTTGGACTTTTAGGAGTGACATCATATGTACGGCTGCTAAACTGCTG
>Columba-mir-489-3p
TGACATCATATGTACGGCTGCT
>Columba-mir-489-5p
TGGTTCGTATGTATGACGTCATT

>Columba-mir-490_pre
TTCATGGTTCGACACCATGGATCTCCAGGTGGGTCAAGATTTATAGAGATACACCAACCTGGAGGACTCCATGCTGTTGAGCTGTTCA
>Columba-mir-490-3p
CAACCTGGAGGACTCCATGCTGT
>Columba-mir-490-5p
CCATGGATCTCCAGGTGGGTCA

>Columba-mir-499_pre
TTTGAGAGAGCGGCAGTTAAGACTTGTAGTGATGTTTAGATAATGTATTACATGAACATCACTTTAAGTCTGTGCTACTTCTCTCCTC
>Columba-mir-499-5p
TTAAGACTTGTAGTGATGTTTA
>Columba-mir-499-3p
AACATCACTTTAAGTCTGTGCT

>Columba-mir-551a_pre
CTGTGCGTGACCTTGGAAATCAAGTGTAGGTGGAGCCTGTGGCAGCGATCAAGGGCAGCCACACTTGGTTTTCAAGGGTCCGCAGGG
>Columba-mir-551a-3p
GCGACCCACACTTGGTTTTCAA
>Columba-mir-551a-5p
GAAATCAAGTGTAGGTGGAGCCT

>Columba-mir-551b_pre
CCATGGCTCCAGAAATCAAGGGTGGGTAAGACCTCGTCAGCAAAGTTTAAAGGGCAGCCATACTTGGTTTTCAAGGGGCTGTGTGGCTC
>Columba-mir-551b-3p
GCGACCCATACTTGGTTTTCAGG

>Columba-mir-551b-5p
AGAAATCAAGGGTGGGTAAGACCT

>Columba-mir-599_pre
ACAGTGTGTTTGATAAGCTGACATGGGACAGGATTTCTTTTCACTGTTGTGTCAGTATATCAAACCTCATAACC
>Columba-mir-599-3p
TTGTGTCAGTATATCAAACCTCA

>Columba-mir-737_pre
TGGTTTGGGTTGAGTTTTTTTAGGTTTTGATTTTTATTACATCTTTGTACAAAAATCAAACGTAAGAAAAATGCTGCAAAGATAGAT
>Columba-mir-737-5p (predicted)
GTTTTTTTAGGTTTTGATTTTT

>Columba-mir-875_pre
TTAGTGGTACAATACCTCAGTCTTTTCGGATGTTCTATAAAATTCACCTGGAAATACTGAGGTTGCGTTTCACTGAAC
>Columba-mir-875-5p
AATACCTCAGTCTTTTCGGATG
>Columba-mir-875-3p
CCTGGAAATACTGAGGTTGCGT

>Columba-mir-1306_pre
CAGCCTCCACCACCTCCCCTGCAAACGTCCAGTGACGCAGAGGTAATGGACGTTGGCTCTGGTGGTGATGGACAG
>Columba-mir-1306-5p
CCACCTCCCCTGCAAACGTCC
>Columba-mir-1306-3p
ACGTTGGCTCTGGTGGTGATG

>Columba-mir-1329_pre
GTCTGGTTGTAGAGATACAGTGATCAGGTTACGATGGATTTCTCAAGTAACAACCTCGTAGCTTGATCACGATATCCCTATGACTTGAGAA
>Columba-mir-1329-5p
TACAGTGATCAGGTTACGATGGA
>Columba-mir-1329-3p
CTCGTAGCTTGATCACGATATC

>Columba-mir-1388_pre
AGCGAGAGGCACCTCGAGGACTGTCTAACCTGAGAATGGTGAAATGTAAGGGTCAATCTCAGGTTTCGTCAGCCCATGAGACGCCTTCTCCAG
>Columba-mir-1388-5p
AGGACTGTCTAACCTGAGAATG
>Columba-mir-1388-3p
ATCTCAGGTTTCGTCAGCCCATG

>Columba-mir-1416_pre
GGTTGACTCTCTTTTCCCTTAACTCATGCCGCTGTGCCTTTTTATTTGTTTCAACAATTGTGTGAGTTGAGTACAGAGTGTC
>Columba-mir-1416-5p
TCCTTAACTCATGCCGCTGTGC
>Columba-mir-1416-3p
ACAATTGTGTGAGTTGAGTACA

>Columba-mir-1451_pre
AAGCGCAGGAGCTGCTGCCTCGCACAGGGGCAAGTTACCGCGTTTCAGCTCACCTGCAGTAACTTGCTCCTGTGAGAGGTGGCGGCTCCTGGCTCC
>Columba-mir-1451-5p
TCGCACAGGGGCAAGTTACCGC
>Columba-mir-1451-3p
AGTAACTTGCTCCTGTGAGAGG

>Columba-mir-1467_pre
ACAGGGCAGGTTTTTCTCTCAGCTACGTTCGGTGTAATCCAGAGCAACTCCACTGAGATTACACACCAGAGTAACTGAGAGCAGAATCTGGCCAAC

>Columba-mir-1467-3p
TTCACACCAGAGTAACTGAGAGC

>Columba-mir-1467-5p
TCTCAGCTACGTCGGTGTAATC

>Columba-mir-1550_pre
AGACCTGTGCAGGCTTCAGCTGATGGGGGTGCAGTGCAGTAGCTGTTTATCATGCTTCACTTATCCTGATCACTGGTTTTAAGCTGCACCACCAGGG

>Columba-mir-1550-5p (predicted)
TGATGGGGGTGCAGTGCAGTA

>Columba-mir-1552_pre
CTTGTCTACACGGGAAGTTAGTGCGCGGTAAGCTAGGGTGTGAGTTTGCAGCACGCTAGCTGCTCTGCACTAACTCCCCCTGTGGATGCTGAG

>Columba-mir-1552-5p
TTAGTGCGCGGTAAGCTAGGGTG

>Columba-mir-1552-3p
CGCTAGCTGCTCTGCACTAACT

>Columba-mir-1559_pre
ACATGAAGGTCTAGACTCCTTTTCGATGCTTGTATGCTACTCCCAAGAATGCTAACAGGAGTTCCATGTATGCATCGAGCAGAGACTATAACCATTTA

>Columba-mir-1559-5p
TTTCGATGCTTGTATGCTACTCC

>Columba-mir-1559-3p
TTCCATGTATGCATCGAGCAG

>Columba-mir-1641_pre
ATGCAGGGCATTTCCTGAGGATTAATGACTGTCTGGGGTCATCATCTCCTCCCAGTTAGTTATTAATCCCCAGGAAATACTCTGTGCCTTGATCAT

>Columba-mir-1641-5p
TGAGGATTAATGACTGTCTGGGG

>Columba-mir-1655_pre
GGGGAAACCGCATTTC AACACTGTGT CAGCTGGTCCTGGGTAAACTCCGTTGTTCCGGCAGTATTTACCCACGGCAAGCTGATAGGGCGCTGG

>Columba-mir-1655-3p (predicted)
ATTTACCCACGGCAAGCTGATA

>Columba-mir-1662_pre
ATAGCTGTGCTCTATGGGTTTGACATCATCATACTTGGGATGTATGACACAAAGTCCCAAGCAGGCTGATGTCAGGCCCAAGATGGCTGCCA

>Columba-mir-1662-5p
TTGACATCATCATACTTGGGAT

>Columba-mir-1662-3p
CCCAAGCAGGCTGATGTCAGGC

>Columba-mir-1677_pre
CTGTGTTGCTTAGGGTCTGATCCTGCACCGCTGAAGTCAATGGAAGTTTTGTCAATTGACTTCAATAGGAGCAGGATTTGAACCTTATGCTCTAT

>Columba-mir-1677-3p
TTGACTTCAATAGGAGCAGGATTT

>Columba-mir-1677-5p
TCCTGCACCGCTGAAGTCAATG

>Columba-mir-1720_pre
CTGCACTTCTGACCACCTCAGCCGTTGCTTTTGTGAGCCTCGAGAGCGAAGCAACGAGAGGCTGGTCTGAAACCCCTC

>Columba-mir-1720-3p
GAAGCAACGAGAGGCTGGTCTGA

>Columba-mir-1720-5p
TGACCACCTCAGCCGTTGCTTTTG

>Columba-mir-1729_pre
TAGACAGGCCTGATCCTGCATCCCTTACTCACGTGAGCAGTCGTCTCTATTTACCGGACTACTCGGTGAGTAAGGATCGCAGGACTGGGACCACT

>Columba-mir-1729-3p
CTACTCGGTGAGTAAGGATCGC
>Columba-mir-1729-5p
TTCCCTTACTCACGTGAGCAGTC

>Columba-mir-1781_pre
GGCAAGACAAGGAGCTTGTTTAACAGCTGAGTGATTTAAAGCAATCAAATTCCTTTAGCTTTAAATCATCCAGCTGTTGAACAGGCTCTTGCTTCA
>Columba-mir-1781-3p
TTTAAATCATCCAGCTGTTGA

>Columba-mir-1782_pre
TAGACTGCCTGGATTCTAGCCCTTCTCCAAATGAATTTTTAATATAAAAATAATTAACATTCATTGGAGCAGGGACAGGAACCCAGGTCTCTG
>Columba-mir-1782-3p
ACATTCATTGGAGCAGGGACA

>Columba-mir-1784_pre
ATTTCTTGGGGCCCAATTCTGCTCTTATTGAAATCAGTGAGAGTTCTGCCATTGACTTAAATGGGAGCAGAATTGGGACCTAAGAAGAC
>Columba-mir-1784-5p
TTCTGCTCTTATTGAAATCAGT

>Columba-mir-1788_pre
CTGTCTCCGGGGCTTGTTTTCCGTTGCCTGCGGTTTTGTTCCAGTGACTCAGGCAGCGAAAGCAAGTCTGGGAGGCTG
>Columba-mir-1788-3p
CAGGCAGCGAAAGCAAGTCTG
>Columba-mir-1788-5p
GGCTTGTTTTCCGTTGCCTGCG

>Columba-mir-1791_pre
TCAGCTGATGCACCGTGTGGGCTGCATCAGTCATGCCATGTTATGAAACCTAACACGATGTGACTGATGCAGGCTGACGTGATGTGTACAGAG
>Columba-mir-1791-3p
CGATGTGACTGATGCAGGCTGAT

>Columba-mir-1803-1_pre
GAAGAGCTTGGGGCATGAACCAGAGCCCATTTGTAGTCAATGGGAGTCTTTTTCCATTGACTTCAGTGGGGTTTTGAATCAGGCCTTTACTTC
>Columba-mir-1803-1-3p
ATTGACTTCAGTGGGGTTTTGA
>Columba-mir-1803-1-5p
AGAGCCCATTGTAGTCAATGG

>Columba-mir-1803-2_pre
ATGCTTTTAGCATCTGAGCCAAAGCCCACTGCCTTTACTGAAAGCCTTTCCATTGACTTCAGTGGGGTTTTGATCAGCGCTTTGCTGTTAGG
>Columba-mir-1803-2-3p
ATTGACTTCAGTGGGGTTTTGA

>Columba-mir-1805_pre
GTGGAATATTCTGGGAGTTGTAGTCTTTCAAACAGAGCTTCGCAAGGACATACCTGTATTGGAACACTACAGCTCCCTGAACTTCCTC
>Columba-mir-1805-3p
TGTATTGGAACACTACAGCTCCC
>Columba-mir-1805-5p
GAGTTGTAGTCTTTCAAACAGA

>Columba-mir-2131_pre
TGCTCTTGTGGCTTCCATGCAGAAGTGCACGGAAACAGCTATTTGCTATTGAAAAGTTGGCTGTTACTGTTCTTCTGATGGATGCTGCTGGATT
>Columba-mir-2131-3p
CTGTTACTGTTCTTCTGATGG
>Columba-mir-2131-5p
ATGCAGAAGTGCACGGAAACAGCT

>Columba-mir-2188_pre
CAGACCTGTGGGAAAGGTCCAACCTCACATGTCCTGTATAGAATAAAGAGGGATATATGTGGTCAGACCTATCCCACAGGCC
>Columba-mir-2188-5p
AAGGTCCAACCTCACATGTCC
>Columba-mir-2188-3p
ATATATGTGGTCAGACCTATC

>Columba-mir-2954_pre
TGTCTGGGCTTGGAGCAGTGCTGAGAGGGCTTGGGGAGAGGATTGTAGTGGAGCTCCATCCCCATTCCACTCCTAGCAGCTCTCTGGCCACCCAC
>Columba-mir-2954-3p
CATCCCCATTCCACTCCTAGCAGC
>Columba-mir-2954-5p
TGCTGAGAGGGCTTGGGGAGAGGA

>Columba-mir-2970_pre
ACAGCTCCTGCCCTGCGGACAGTCAGCAGTTGGTCTGGTGTGAGCAGCGATTCTCAGATCACCTCTTGGCTGTGGGTGGTGCAGGGAGCACCCC
>Columba-mir-2970-5p
GACAGTCAGCAGTTGGTCTGGT
>Columba-mir-2970-3p
CAGATCACCTCTTGGCTGTGGG

>Columba-mir-2984_pre
TGCTTCACCTGCGGAGCCTGCTGGGAGCGAAATTGAGAAAGGACAGCGCCAGCCCAGGCAATTTCACTCACAGCGGGCACTTGCAGGTGAAGCA
>Columba-mir-2984-5p (predicted)
AGCCTGCTGGGAGCGAAATTGA

>Columba-mir-3064_pre
TTTATCTTCGATTTGGCTGTTGTGGTGTGCAAAACTTTGTACCTTGCTTTTTTGCCACACTGCAACACTTTACAGATGTGGAAGATGTG
>Columba-mir-3064-3p
TTGCCACACTGCAACACTTTAC

>Columba-mir-3618_pre
GAATGCATTGTGATTTCCAATAATTGAGACAGTGATTCTGAAAGCTGTCTACATTAATGAAAAGAACAATGTAGTCA
>Columba-mir-3618-5p
TGATTTCCAATAATTGAGACAG
>Columba-mir-3618-3p
CTACATTAATGAAAAGAACAAT

>Columba-novel-1_pre
AGTTGGTGACCATTTTTCTCCCATGGCTGTATAACCCTTTCGATATCCTTGGATTGCACAGCTTTGGTAGGAAGCTGGCCACCATCT
>Columba-novel-1-5p
TCTCCCATGGCTGTATAACCC
>Columba-novel-1-3p
TTGCACAGCTTTGGTAGGAAG

>Columba-novel-2_pre
AGTGGGGGCTGCGGCCTGGGGCAGCGCAAACCCCACTTTAGGGTGGAAAACACAAGGTTGAGCTGATCCAGGCCTGGCCTCCCCTC
>Columba-novel-2-3p
TTGAGCTGATCCAGGCCTGGC
>Columba-novel-2-5p
TGCGGCCTGGGGCAGCGCAAACC

>Columba-novel-3_pre
TGCCTGTTGTCTTATGATCATAAGGATAAATGAGCCCCATCGAGTAATTAATTTATCCGTATGATCATAAGACAGCAGACC
>Columba-novel-3-3p
ATTTATCCGTATGATCATAAGA

>Columba-novel-3-5p
TTATGATCATAAGGATAAATGA

>Columba-novel-4_pre
TCAAGCTGTGGGGTCTGGCAGAGGGGCCACTCTTGGCCGGGGGACAAAGCCATCAAAGATGGACCCTCTGCTGGCACCCACAGCTGCA
>Columba-novel-4-3p
CATCAAAGATGGACCCTCTGCTGG
>Columba-novel-4-5p
TGGCAGAGGGGCCACTCTTGGC

>Columba-novel-5_pre
TGTGAGCCTGATCCAATATTCCCTTAAGTAGGCAAAGTTGATTCTTTTCACAGTTTTGCCTGCTCAAGGGGTAGAGGAATAG
>Columba-novel-5-3p
TTTTGCCTGCTCAAGGGGTAGA
>Columba-novel-5-5p
TATTCCCTTAAGTAGGCAAAGTT

>Columba-novel-6_pre
TGCACAATTTCCCCTTTAGGAGAAAAATCTCAGTTATTGCACTTTGTGTAAATTCATAACTAAGATATTTCTCCTGAAGGGGAAATGGTGCA
>Columba-novel-6-3p
ACTAAGATATTTCTCCTGAAGG
>Columba-novel-6-5p
TTTAGGAGAAAAATCTCAGTT

>Columba-novel-7_pre
ACCTCCCATCAGGATACATCCCGTTGGGATGCATTCTGTGAGAATGCACCTCATCAGGATACATCCCATCGGGATGCACCCCATGGGGCAG
>Columba-novel-7-5p
TCCCGTTGGGATGCATTCTGTG
>Columba-novel-7-3p
CAGGATACATCCCATCGGGATG

>Columba-novel-8_pre
GGAGGGCCAGATCCTCAGCTGATGTAAATTAGGAGAGCTCTGTCAATGTTAAACGCTTTCTTGATTTACTCCAGCTGAAGATTTGACCTGGG
>Columba-novel-8-3p
TTTCCTGATTTACTCCAGCTGA
>Columba-novel-8-5p
AGCTGATGTAAATTAGGAGAGC

>Columba-novel-9_pre
GTACCACATCCTCAGCTGGTGTAAGTCGGCTTTTACTCCATTAATACTGACTTACATTGCCTGAGGACCTGGATT
>Columba-novel-9-5p
TCCTCAGCTGGTGTAAGTCGGC
>Columba-novel-9-3p
TGACTTACATTGCCTGAGGACC

>Columba-novel-10_pre
CGTGGGGAAGATGCCGTGGGGTTTTCCCTGCCTGGGACCCGAGGTGTGAAGGGCCCGTCGGGGCTGACCCCATGGCAGCTGGCTCCTTC
>Columba-novel-10-3p
CCCGTCGGGGCTGACCCCATG
>Columba-novel-10-5p
TGGGGGTTTTCCCTGCCTGGGAC

>Columba-novel-11_pre
TACCTAGGCCTTTTCTAGTGTGGGATTTAAAGTTGTGTGTAACCTCGTGACAGCATAACCTTTAAATCCTGGTCTGGACAAGGT
>Columba-novel-11-3p
ATACCTTTAAATCCTGGTCTGG
>Columba-novel-11-5p

AGTGTGGGATTTAAAGTTGTGT

>Columba-novel-12_pre

GATGGGCTCAGTTGTGTCTGCCTTGGCTCTGCTGTGAGGAACTGTCTGGAGCCGGCCATGTCAGGCACAGTGCAGCCCCCTT

>Columba-novel-12-5p

GTTGTGTCTGCCTTGGCTCTG

>Columba-novel-12-3p

CGGCCATGTCAGGCACAGTGT

>Columba-novel-14_pre

GAGAGCATCGGAGCTGTTCGGAGCCGATGTTCTAGCTGGAATGAAAAACGGCTGACGCTGGCACCGAGAGCCCTGTGGCTTCC

>Columba-novel-14-5p

CTGTTCGGAGCCGATGTTCTAGCT

>Columba-novel-14-3p

CTGACGCTGGCACCGAGAGCC

>Columba-novel-15_pre

AAGAACAGATCAGGGCTTGGAGAAATAACACGCTAAAGAGTTTCAGCTGGTGTGGTCTCTCTCTGCCAGTTTGCCCGTCCAGT

>Columba-novel-15-5p

AGGGCTTGGAGAAATAACACGCT

>Columba-novel-15-3p

TGTGGTCTCTCTCTGCCAGT

>Columba-novel-16_pre

GAAGGTTTTGTAGCTCAGGAGCAGTGCCAAGGCTGGGCTGGCTCTGCGCCTCAGCGTGGGCACTGCTCCAGACCTAATAAACCCCTG

>Columba-novel-16-3p

CAGCGTGGGCACTGCTCCAGAC

>Columba-novel-16-5p

CAGGAGCAGTGCCAAGGCTGGG

>Columba-novel-17_pre

GCGATGCAACAGGACAGCAGAGGAAATCCAGACGAGCTCCCTTTTACCACAGTGGGACTTGTCTCTACACCTCTGCAACATTTATCGC

>Columba-novel-17-3p

CTTGTCTCTACACCTCTGCAAC

>Columba-novel-17-5p

CAGCAGAGGAAATCCAGACGAGCT

>Columba-novel-18_pre

TGTTTCCTTCACTCATGGCTGCACAGTCTGGCAGGGCTTGCAGAGGCCACAGAGAACTACCTGGAGGCTTTGCCAGCCTGGGCCGCTGCGGTGGTG

>Columba-novel-18-5p

CACAGTCTGGCAGGGCTTGCAG

>Columba-novel-18-3p

GGAGGCTTTGCCAGCCTGGGC

>Columba-novel-19_pre

TCTACCATGGTTCACGGCCACTCGCACGAGGAGCCGACACCACGGCCACTCGCACGAGGGGCTCTACCATGGTTCAC

>Columba-novel-19-3p

CACTCGCACGAGGGGCTCTACC

>Columba-novel-19-5p

CACGGCCACTCGCACGAGGAGC

>Columba-novel-20_pre

CCACCCACACCAAGAGCCCCAGTGTTCGCCGGCCACCCAGCTCGGCCCGCCCGGCGACACTCGGGGCTCTTGGCGTGGGCCA

>Columba-novel-20-3p

CCCGGCGACACTCGGGGCTCT

>Columba-novel-20-5p

AGCCCCAGTGTTCGCCGGCC

>Columba-novel-21_pre
GTTCAAAGGCACAGATGATAGCCAGGTGCCTCATCTCATGCCTGTGGAAAAACCTGTGTGAGAGGAGTGTCTGACTGTTTTCTGTGCCTTTGCGA
>Columba-novel-21-3p
TGTGAGAGGAGTGTCTGACTGTT
>Columba-novel-21-5p
TAGCCAGGTGCCTCATCTCATGCC

>Columba-novel-22_pre
CTACTTCTGGTCAGGCCAGAAATTTTGCAAGAGCAGCCTCTCTCATGATATTTTGGCACTTTTGTCTTCTGGTCTTGCCTGAAGCCT
>Columba-novel-22-3p
CACTTTTGTCTTCTGGTCTTGC
>Columba-novel-22-5p
CAGGCCAGAAATTTTGCAAGAGC

>Columba-novel-23_pre
GGGCTCCACATGCAGAGGATGGAGCTGAATGGGATTTTGTCTGCCTGAAATGGTCCCATCCAGCCCCAGTCTGTGCTGCACGGGGAGGCA
>Columba-novel-23-5p
AGAGGATGGAGCTGAATGGGA
>Columba-novel-23-3p
CCATCCAGCCCCAGTCTGTGC

>Columba-novel-24_pre
GAGGAGGGGCAGGGTCAAGGGTCAAAGGTCAAGGGTGGCCAAGACCTTGACCTTGACCTTTGACCCCAGCCGGCCAAG
>Columba-novel-24-3p
TGACCTTGACCTTTGACCCCAGC
>Columba-novel-24-5p
CAGGGTCAAGGGTCAAAGGTCAAG

>Columba-novel-25_pre
GTCTAAAAATCTTGTTCCTATGTTAAGGGAGCCTGTTTGTAAATAGGGCAGGTCCCCTGCATAAAGGACAGTGTTTTTATTACACA
>Columba-novel-25-3p
TCCCCTGCATAAAGGACAGTGT
>Columba-novel-25-5p
CTTGTTCCTATGTTAAGGGAGCC

>Columba-novel-26_pre
CTGAGCAACCTGAAGCATATTTATACAGATTAAGTGGTTTCTAATACTCCAAAGAGCACTTAATCTGCATGAATGTGCTTCATGTTGCTATGT
>Columba-novel-26-5p
TATTTATACAGATTAAGTGGTTTC
>Columba-novel-26-3p
AGCACTTAATCTGCATGAATGTG

>Columba-novel-27_pre
CGCTCCCCGCAAACCAGTGGGTACCTTGTAGAAGGGACTGGTGGAGAGTGGACAAGTACCCGCTGGTTTGCTTGGGGAGGT
>Columba-novel-27-5p
CGCAAACCAGTGGGTACCTTGTA
>Columba-novel-27-3p
CAAGTACCCGCTGGTTTGCTTG

>Columba-novel-28_pre
ATTGTCTTGGCCTGTCTCAGGACCAGGTGCCTTCTCCTGTTCCCTGCTGAAGTCTTCCCTTGTCCTGACAGGGAGCCAAGATCAT
>Columba-novel-28-3p
TGAAGTCTTCCCTTGTCCTGACAG
>Columba-novel-28-5p
CTCAGGACCAGGTGCCTTCTCC

>Columba-novel-29_pre
AAATTGAGTCATCAGCAGCAAGGACCACCTTAGTCCTGCTCTCCTCTCTCTCACGCCACAGGTCTAAGTGGTCCCTCGCTGCCGATGACTCAATACA
>Columba-novel-29-3p
AGGTCTAAGTGGTCCCTCGCTGC
>Columba-novel-29-5p
AGCAAGGACCACCTTAGTCCTGC

>Columba-novel-30_pre
TCTCCGGGGCGGTGGAAGGAGCCGGTAGCTGTGCAGCCCCGTGTCCGACAGCGCTGCTGAGCTCACGGCACCGACCACCGTGCGCGGCCCT
>Columba-novel-30-5p
AGGAGCCGGTAGCTGTGCAGCC
>Columba-novel-30-3p
CTGCTGAGCTCACGGCACCGAC

>Columba-novel-31_pre
CACGGGCGGCAGAGCCTCGCGCTGACTCTGAAGGTTCTGGTAACTCGACTTCAGATGGCAGAGCTGAGGCTGCGCCGCTCGCT
>Columba-novel-31-3p
TCAGATGGCAGAGCTGAGGCTGC
>Columba-novel-31-5p
GAGCCTCGCGCTGACTCTGAAG

>Columba-novel-32_pre
GTCCGGCTGCTCGGGAACCGCTGGCACGTTGGAGCCCTCGCCTTTGTGCCTCTCGGCGAGCGTGATGTGCCACGGCTCTCGTCCGGCCTGTC
>Columba-novel-32-3p
CGAGCGTGATGTGCCACGGCTC
>Columba-novel-32-5p
CCGCTGGCACGTTGGAGCCCTCGCC

>Columba-novel-33_pre
CGACCAGAGGTGAGAGCTCAGGTGCCTTCTCCAAATCCTTCTGAGCACGGGACGGCGCCCTGACCTCTGTCCCCTCTCGGCAG
>Columba-novel-33-3p
GACGGCGCCCTGACCTCTGTCC
>Columba-novel-33-5p
GTGAGAGCTCAGGTGCCTTCTC

>Columba-novel-34_pre
CTGTGGTACCGACCCTGCGCGGCCGGTACTGATCCTGCAGTACCAACCCTGTGCGGCCGGTACTGACCCTGCATGGCTGGTACCAATC
>Columba-novel-34-3p
TGCGGCCGGTACTGACCCTGCA
>Columba-novel-34-5p
CGCGGCCGGTACTGATCCTGCA

>Columba-novel-35_pre
TTGCCAGAGGTGGTGTGGGGTTTGGATCTCAGTTAAAATCTCACTGGAGACCATACTGCACAGCCTTCTCTAGGTGA
>Columba-novel-35-3p
GGAGACCATACTGCACAGCCTTC
>Columba-novel-35-5p
TGGTGTGGGGTTTGGATCTCAG

>Columba-novel-36_pre
CCTGTGCAGCACTTGCCACCACAGTGGGCTGCTGCAGGACACATAGCCGGAGCACACGGTGGTGGTACCAGTGCTGGATCTG
>Columba-novel-36-5p
TGCCACCACAGTGGGCTGCTGC
>Columba-novel-36-3p
CGGAGCACACGGTGGTGGTACC

>Columba-novel-37_pre

TTAGAGTGGTATTTAGACCGATTGTTGGTAGTGTCTTTATAAAAAACGATAAAGAACACTACCAACGACCGGTCTAAATGCCACTTATC

>Columba-novel-37-3p

AAGAACACTACCAACGACCGGT

>Columba-novel-37-5p

CGATTGTTGGTAGTGTCTTTA

>Columba-novel-38_pre

AGGTGAGGGCTGGTTCCCGCGCTGGTGTGTGGCTCCGTGGCCCCGAGCTGCCCGGGAGCCGCTCACCAGCGCTGGTGTCTCTGTCCCCAGGT

>Columba-novel-38-3p

AGCCGCTCACCAGCGCTGGTGT

>Columba-novel-38-5p

TCCCGCGCTGGTGTGTGGCTCC

>Columba-novel-39_pre

AGAGGCCATCTCATGCCATTAATTTCTAAGCAGTCAATGAGGAATTCTGCTGTAGAATTAATGGCAAAATATGGCCCAC

>Columba-novel-39-3p

CTGTAGAATTAATGGCAAAAT

>Columba-novel-39-5p

CATGCCATTAATTTCTAAGCA

>Columba-novel-40_pre

GAAGGTAAAGAAGTTACACTGGGTCTCCCACATCTCTGGTGAGATTTTATAGCTACAGAGATGCTGGGTGAAACAGTGTATCTTCATATCAGT

>Columba-novel-40-5p

CACTGGGTCTCCCACATCTCTG

>Columba-novel-40-3p

GAGATGCTGGGTGAAACAGTGT

>Python-let-7a-1_pre
CTGCTCTGTGGGATGAGGTAGTAGGTTGTATAGTTTTAGGGTCATACCCACCCTGGGAGATAACTATACAGTCTACTGTCTTTTCCCTAAGGAGGCA
>Python-let-7a-1-5p
TGAGGTAGTAGGTTGTATAGTT
>Python-let-7a-1-3p
CTATACAGTCTACTGTCTTTTC

>Python-let-7a-2_pre
TGTCTTTGGGGTGAGGTAGTAGGTTGTATAGTTTTAGGGTTAGACCCTGCCTGTCAGATAACTATACAATCTACTGTCTTTTCCCTGAAGTGGCTGT
>Python-let-7a-2-5p
TGAGGTAGTAGGTTGTATAGTT
>Python-let-7a-2-3p
CTATACAATCTACTGTCTTTTCC

>Python-let-7a-3_pre
AGGTGAGGTAGTAGGTTGTATAGTTTTGTGGGAGGGATTATATCCCATTTTCAGGTGATAACTATACAGTCTATTGCCTTCCCTTA
>Python-let-7a-3-5p
TGAGGTAGTAGGTTGTATAGTT

>Python-let-7b_pre
GGTGAGGTAGTAGGTTGTGTGGTTTTAGGGTAGTAATTTTGCCTCAATCAGGAGATAACTATACAACCTACTGCCTTCCCTTGA
>Python-let-7b-5p
TGAGGTAGTAGGTTGTGTGGTT
>Python-let-7b-3p
CTATACAACCTACTGCCTTCCCT

>Python-let-7c-1_pre
GTGTGCATCCGGGTTGAGGTAGTAGGTTGTATGGTTTTAGAAATTACACCCAGGAGTTAACTGTACAACCTTCTAGCTTTTCCCTGGAGCACACTTGA
>Python-let-7c-1-5p
TGAGGTAGTAGGTTGTATGGTT
>Python-let-7c-1-3p
CTGTACAACCTTCTAGCTTTTCC

>Python-let-7c-2_pre
GCGTGCCTCGTGTGAGGTAGTAGGTTGTATGGTTGAGAATAACACCATCAGGAGATAACTATACAGCCTCCTAGCTTTTCCCTGAGGCATCGCCA
>Python-let-7c-2-5p
TGAGGTAGTAGGTTGTATGGTT
>Python-let-7c-2-3p
CTATACAGCCTCCTAGCTTTTCC

>Python-let-7c-3_pre
CAAGCTGAGGTAGTAGGTTGTATGGTTTTAGAAATTACACCAAGGGAGATAACTGTACAGCCTCCTAGCTTTTACTT
>Python-let-7c-3-5p
TGAGGTAGTAGGTTGTATGGTT

>Python-let-7d_pre
GGGTTCCCTAGGAAGAGGTAGTAGGTTGCATAGTTTTAGGGCAGTGGTTTTGCCTATAAGGAGTTAACTATACAACCTGCTGCCTTTCTTAGGGCT
>Python-let-7d-5p
AGAGGTAGTAGGTTGCATAGTT
>Python-let-7d-3p
CTATACAACCTGCTGCCTTTTCT

>Python-let-7e_pre
ATGCTGTCTTTGAGGCTGAGGTAGTAGATTGAATAGTTGTGGAGCCATCTTCTCCCTTTGAGCTAACTATACAATCTACTGTCTTTTCCCTA
>Python-let-7e-5p
TGAGGTAGTAGATTGAATAGTT
>Python-let-7e-3p

CTATACAATCTACTGTCTTTCC

>Python-let-7f-1_pre

CCTGGGATGAGGTAGTAGATTGTATAGTTTTAGGGTCATACCCGGTCTTGGAGATAACTATAACAATCTACTGTCTTTCCCTA

>Python-let-7f-1-5p

TGAGGTAGTAGATTGTATAGTT

>Python-let-7f-1-3p

CTATACAATCTACTGTCTTTCT

>Python-let-7f-2_pre

TTATCAGGTTGAGGTAGTAGATTGTATAGTTGTAGGGCAGTTATTTTTGCCTCTTCAGGAGATAACTATAACAATCTATTGCCTTCCCTGAGGA

>Python-let-7f-2-5p

TGAGGTAGTAGATTGTATAGTT

>Python-let-7f-2-3p

CTATACAATCTATTGCCTTCCCT

>Python-let-7g_pre

GTTCCAGGCTGAGGTAGTAGTTTTGTACAGTTTTGAGGGTCTACGATACCCGGTACAGGAGATAACTGTACAGGCCACTGCCTTGCCTGGGGC

>Python-let-7g-5p

TGAGGTAGTAGTTTTGTACAGTT

>Python-let-7g-3p

CTGTACAGGCCACTGCCTTGC

>Python-let-7i_pre

ACCCTGGCTGAGGTAGTAGTTTTGTGCTGTTTCGTCGGGTTGTGACATTGCCCGCTGTGGAGATAACTGCGCAAGCTACTGCCTTGCTAGTGC

>Python-let-7i-5p

TGAGGTAGTAGTTTTGTGCTGTT

>Python-let-7i-3p

CTGCGCAAGCTACTGCCTTGCT

>Python-mir-1a-1_pre

ACCTGCTTGAGTGACATACTTCTTTATATGCCCATATGAACCTGGCAAACCTATGGAATGTAAAGAAGTATGTATTTTCAGGCATGGA

>Python-mir-1a-1-3p

TGGAATGTAAAGAAGTATGTA

>Python-mir-1a-1-5p

CATACTTCTTTATATGCCCATA

>Python-mir-1a-2_pre

ACCTGCCCAGAGCACATACTTCTTTATGTACCCATATGAAGATATAATGTTATGGAATGTAAAGAAGTATGTACTTTTGGCAGG

>Python-mir-1a-2-3p

TGGAATGTAAAGAAGTATGTA

>Python-mir-1a-2-5p

ACATACTTCTTTATGTACCCAT

>Python-mir-1b_pre

TCCCGAGCCTACATACTTCTTTCATATGCCCATATGGAGTCGGCCGGCTATGGAATGTTAAGAAGTATGTATCTTTGGGATCGAC

>Python-mir-1b-3p

TGGAATGTTAAGAAGTATGTAT

>Python-mir-1b-5p

TACATACTTCTTTCATATGCCCAT

>Python-mir-7-1_pre

TTGGTCTAGTTCTGTGTGGAAGACTAGTGATTTTTGTTGTTTTTAGATTACTAAAGTGACAACAAATCGCAGTCTACCATATGGCACAGTCCA

>Python-mir-7-1-5p

TGGAAGACTAGTGATTTTTGTTGTT

>Python-mir-7-1-3p

CAACAAATCGCAGTCTACCATA

>Python-mir-7-2_pre
TGCCGGACTCCTTATGGAAGACTAGTGATTTTGTGTTTCTGTAGCTCATCTCATGACAACAAGTCACAGTCTGCCTTCTGGAGTCTGGC

>Python-mir-7-2-5p
TGGAAGACTAGTGATTTTGTGTT

>Python-mir-7-2-3p
CAACAAGTCACAGTCTGCCTT

>Python-mir-7-3_pre
GGCCTGCTTCTGATTGGAAGACTAGTGATTTTGTGTTTCTGGTTTGTAGAAAGCTGACAACAAATCACAGCCTACCATCCAGCAGGGGCCA

>Python-mir-7-3-5p
TGGAAGACTAGTGATTTTGTGTT

>Python-mir-7-3-3p
CAACAAATCACAGCCTACCATC

>Python-mir-9-1_pre
GGGTTGGTTGTTATCTTTGGTTATCTAGCTGTATGAGTGGGGTCAAGTCTTCATAAAGCTAGATAACCGAAAGTAAAAA

>Python-mir-9-1-5p
TCTTTGGTTATCTAGCTGTATG

>Python-mir-9-1-3p
TAAAGCTAGATAACCGAAAGTA

>Python-mir-9-2_pre
AGGAAGCGAGTTGTTATCTTTGGTTATCTAGCTGTATGAGTGTGTTGGCCTTCATAAAGCTAGATAACCGAAAGTAAAAACTCCTTCA

>Python-mir-9-2-5p
TCTTTGGTTATCTAGCTGTATG

>Python-mir-9-2-3p
TAAAGCTAGATAACCGAAAGTA

>Python-mir-9-3_pre
AGGGCCGTTTCTGTCTTTGGTTATCTAGCTGTATGAGTGTATCAAGCCATCATAAAGCTAGATAACCGAAAGTAGAAATGACT

>Python-mir-9-3-5p
TCTTTGGTTATCTAGCTGTATG

>Python-mir-9-3-3p
TAAAGCTAGATAACCGAAAGTA

>Python-mir-9-4_pre
ACAGGGTCGGTTTCTCTCTTTGGTTATCTAGCTGTATGAGTGTATCTGATGTCATAAAGCTAGAGAACCGAATGTACAAACCGCCCCGC

>Python-mir-9-4-5p
TCTTTGGTTATCTAGCTGTATGA

>Python-mir-9-4-3p
TAAAGCTAGAGAACCGAATGTA

>Python-mir-10a_pre
GTCTTCTGTATGTACCCTGTAGATCCGAATTTGTGTAAAAGAAGCTGCCTCACAAATTCGCATCTAGGGGAATATGTAGTTGAC

>Python-mir-10a-5p
TACCCTGTAGATCCGAATTTGTG

>Python-mir-10a-3p
CAAATTCGCATCTAGGGGAAT

>Python-mir-10b-1_pre
ACGTTGTCTATATATACCCTGTAGAACCGAATTTGTGTGGTATTTACGTAGTCACAGATTCGATTCCTAGGGGAATATATGGTCGATGC

>Python-mir-10b-1-5p
TACCCTGTAGAACCGAATTTGTG

>Python-mir-10b-1-3p
AGATTCGATTCCTAGGGGAATA

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>Python-mir-10b-2_pre
CATCGTTTATATATACCTGTAGAACCGAATTTGTGTGAGCACCTCTATTGCAAATTCGTCTCTAGGGGGATATGTGGATGATG
>Python-mir-10b-2-5p
TACCCTGTAGAACCGAATTTGT
>Python-mir-10b-2-3p
AAATTCGTCTCTAGGGGGATA

>Python-mir-15a_pre
CCTCAAAGTACTATAGCAGCACATCATGATTTGTGTTTCATAATAAATATGCAAGTCATTATTTGCTGCTTTAGAATTTTAAGG
>Python-mir-15a-5p
TAGCAGCACATCATGATTTGTG
>Python-mir-15a-3p
CAAGTCATTATTTGCTGCTTTA

>Python-mir-15b_pre
CCTTGAGGTGGCGTAGCAGCACGACATGGTTTGTAGAGAAAAGAAGATACAGACCGTTCTGGGCTGCCTCATGACCTCAAGG
>Python-mir-15b-5p
TAGCAGCACGACATGGTTTGTGTA
>Python-mir-15b-3p
CAGACCGTTCTGGGCTGCCTCA

>Python-mir-16a_pre
GCCAGTTGTGCCTTAGCAGCACATAAATATTGGAGTTATTATTAGTAAAGTATCTCCAGTATCAATTGTGCTGCTGAAGTAAGGCTGTT
>Python-mir-16a-5p
TAGCAGCACATAAATATTGGAG (predicted)

>Python-mir-16b_pre
TACTTGTTCGCCCTAGCAGCACGTAAATATTGGTGTAGTAAAGATAATCTTAACGCCAATATTATTGTGCTGCTTAAGCGTGACAGGGATT
>Python-mir-16b-5p
TAGCAGCACGTAAATATTGGTG
>Python-mir-16b-3p
CCAATATTATTGTGCTGCTTAA

>Python-mir-16c_pre
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>Python-mir-147-3p

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>Python-mir-148a_pre

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>Python-mir-148a-3p

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>Python-mir-148a-5p

CAAAGTTCTGTGACACTCGGACT

>Python-mir-148b_pre

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>Python-mir-148b-3p

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>Python-mir-148b-5p

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>Python-mir-150_pre

ACTCTTCTCCTTTCTCTCCCAACCCTTGTACCAGTGTGAGCTGTTGCACCTACTGGTACAGAGGATGGAAGGGAGAGTGGTTTCAGAG

>Python-mir-150-5p

TCTCCCAACCCTTGTACCAGTGA

>Python-mir-150-3p

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>Python-mir-153-1_pre

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>Python-mir-153-1-3p

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>Python-mir-153-1-5p

GTCATTTTTGTGATGTTGCAGCT

>Python-mir-153-2_pre

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>Python-mir-153-1-3p

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>Python-mir-153-2-5p

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>Python-mir-155a_pre

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>Python-mir-155a-5p

TTAATGCTAATTGTGATAGGTGT

>Python-mir-155b_pre

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>Python-mir-155b-5p (predicted)

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>Python-mir-181a-1_pre
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>Python-mir-181a-1-5p
AACATTCAACGCTGTCGGTGAGTTT
>Python-mir-181a-1-3p
ACCATCGACCGTTGATTGTACC

>Python-mir-181a-2_pre
GATAGCTTCAGCGAACATTCAACGCTGTCGGTGAGTTTGGACATGTCAGGATAAACCATCGACCGTTGACTGTACCTTGAGGTTTATCAC
>Python-mir-181a-2-5p
AACATTCAACGCTGTCGGTGAGTTT
>Python-mir-181a-3_pre
CTGACAAAAGTTCTCAGGGAACATTCAACGCTGTCGGTGAGTTTGTGTCAGTGGGATTAAACCATCGACTGTTGAGTGTACCCCTGCGGCCTTTGC
>Python-mir-181a-3-5p
AACATTCAACGCTGTCGGTGAGTTT
>Python-mir-181a-3-3p
ACCATCGACTGTTGAGTGTACC

>Python-mir-181b-1_pre
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>Python-mir-181b-1-3p
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>Python-mir-181b-2_pre
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>Python-mir-181c_pre
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>Python-mir-181c-5p
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>Python-mir-182_pre
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>Python-mir-182-5p
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>Python-mir-182-3p
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>Python-mir-183_pre
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>Python-mir-183-5p
TATGGCACTGGTAGAATTCACTG

>Python-mir-184_pre
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>Python-mir-184-3p
TGGACGGGAACTGATAAGGGA

>Python-mir-190a_pre
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>Python-mir-190a-5p
TGATATGTTTGGATATATTAGGTTG

>Python-mir-190a-3p
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>Python-mir-190b_pre
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>Python-mir-190b-5p (predicted)
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>Python-mir-191_pre
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>Python-mir-191-5p
CAACGGAATCCCAAAGCAGCTG
>Python-mir-191-3p
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>Python-mir-193a_pre
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>Python-mir-193a-5p
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>Python-mir-193b_pre
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>Python-mir-193b-3p
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>Python-mir-194-1_pre
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>Python-mir-194-1-5p
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>Python-mir-194-2_pre
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>Python-mir-194-2-5p
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>Python-mir-196a-3p
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>Python-mir-196b_pre
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>Python-mir-196b-5p
TAGGTAGTTTTCATGTTGTTGGG
>Python-mir-196b-3p
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>Python-mir-196c_pre
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>Python-mir-196c-5p
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>Python-mir-199-1_pre

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>Python-mir-199-1-3p
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>Python-mir-199-1-5p
CCCAGTGTTCAGACTACCTGTTCA

>Python-mir-199-2_pre
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>Python-mir-199-2-3p
ACAGTAGTCTGCACATTGGTT
>Python-mir-199-2-5p
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>Python-mir-199-3_pre
TCCACTCCGTCTTCCCAGTGTTCGGACTACCTGTTTCAGGACTACAAGATTGTACAGTAGTCTGCACATTGGTTAGGCTGTGCTGGGATACACAGCA
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>Python-mir-200a_pre
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>Python-mir-200a-3p
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>Python-mir-200a-5p
CATCTTACTAGACAGTGTGGA

>Python-mir-200b_pre
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>Python-mir-200b-3p
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>Python-mir-200b-5p
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>Python-mir-202_pre
TCCTATGCATATACTTCTTTGAGAATTGAATCTAAAGAGGCATACGGCATGGGAAAATGGGGCGATTGAGG
>Python-mir-202-5p
TTCTTATGCATATACTTCTTTG

>Python-mir-203_pre
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>Python-mir-203-3p
GTGAAATGTTTAGGACCACTTG
>Python-mir-203-5p
AGTGGTTCTTAAACAGTTCAACA

>Python-mir-204-1_pre
AGTACCTATTTCATGTGACCTGTGGACTTCCCTTTGTCATCCTATGCCTGAGAATATATGAAGGGGGCTGGGAAGGCAAAGGGACGTTTCAGTTGTCA
>Python-mir-204-1-5p
TTCCCTTTGTCATCCTATGCCTG
>Python-mir-204-1-3p
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>Python-mir-204-2_pre
GACCACATGACCTGTGGGCTTCCCTTTGTCATCCTATGCCTGGAGCTCACAGTGAGGCAGGGCCAGCAAAGGGTTGCTCAGCTGTTGTCTC
>Python-mir-204-2-5p
TTCCCTTTGTCATCCTATGCCTG
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>Python-mir-204-3_pre
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>Python-mir-204-3-5p
TTCCCTTTGTCATCCTATGCCTG

>Python-mir-204-3-3p
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>Python-mir-205a_pre
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>Python-mir-205a-5p
TCCTTCATTCCACCGGAGTCTG

>Python-mir-205b_pre
CTTGGGTGCCCTTCATTCCACCGGAATCTGTAAAAGCAGACACCAGATTTCTGTGAAATGAAGCCCACCTGGCA

>Python-mir-205b-5p
CCCTTCATTCCACCGGAATCTG

>Python-mir-206_pre
TTTCTCTTTTTGAGGGGACACGCTTCTTTATAATCCCATATGAATTACATTGCTATGGAATGTAAGGAAGTGTGTGGTTTCAGAAAGATGAAC

>Python-mir-206-3p
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>Python-mir-208_pre
CTAATGGAGAAGCTTTTGGCTCGGGTTATATTTGAAAATGGCAGTGTATAAGACGAGCAAAAAGCTTGTGGTTGGAGGAGAA

>Python-mir-208-5p
AAGCTTTTGGCTCGGGTTATAT

>Python-mir-208-3p
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>Python-mir-210_pre
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>Python-mir-210-5p
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>Python-mir-210-3p
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>Python-mir-212_pre
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>Python-mir-212-5p
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>Python-mir-212-3p
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>Python-mir-214_pre
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>Python-mir-214-5p
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>Python-mir-214-3p
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>Python-mir-215-5p
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>Python-mir-215-3p
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>Python-mir-216a_pre
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>Python-mir-216a-5p
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>Python-mir-216a-3p
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>Python-mir-216b_pre
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>Python-mir-216b-5p
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>Python-mir-217_pre
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>Python-mir-217-5p
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>Python-mir-218-1_pre
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>Python-mir-218-1-5p
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>Python-mir-218-1-3p
AAACATGGTTCTGTCAAGCACC

>Python-mir-218-2_pre
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>Python-mir-218-2-5p
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>Python-mir-219-1_pre
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>Python-mir-219-2_pre
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>Python-mir-219-2-3p
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>Python-mir-219-5p
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>Python-mir-221_pre
ATCCAGCCTTTGGGCCTTGACCTGGCATAACAATGTAGAATACTGTGTTTGTAAAGCAACAGCTACATTTGTCTGCTGGGTTTCAGGCTGTCTGGA
>Python-mir-221-3p
AGCTACATTTGTCTGCTGGGTTT
>Python-mir-221-5p
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>Python-mir-222a_pre
AGCTGCTCATCAGTCGCTCAGTAGTCAGTGTAGATTCTGTTTCTTCGGTCAGCAGCTACATCTGGCTACTGGGTCTCTGAAGACGTCTTG
>Python-mir-222a-3p
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>Python-mir-222a-5p
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>Python-mir-222b_pre
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>Python-mir-222b-3p
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>Python-mir-222b-5p
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>Python-mir-223_pre
CCTCAGTGTGGCCCTCTGTGTATTTGACAAGCTGGGTTC AACACTCAGTGTAGCAGTGT CAGTTTGTCAAATATACAAAGTGC GGCAATTT
>Python-mir-223-3p
TGTCAGTTTGTCAAATATACAA

>Python-mir-301a_pre
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>Python-mir-301a-3p
CAGTGC AATAGTATTGTCAAAGC
>Python-mir-301a-5p
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>Python-mir-301b_pre
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>Python-mir-301b-3p
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>Python-mir-338_pre
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>Python-mir-338-3p
TCCAGCATCAGTGATTTTTGTTGA
>Python-mir-338-5p
AACAATATCCTGGTGCTGAGTGAGT

>Python-mir-363_pre
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>Python-mir-363-3p
AATTGCACGGTATCCATCTGTAA

>Python-mir-365-1_pre
GCAGGGAAAATGAGGGACTTTTGGGGGCAGCTGTGTTCTTCCATGCTACCATAATGCCCCCTAAAAATCCTTATTGCTCTTGC
>Python-mir-365-2_pre
AAGAAAATGAGGGACTTTTCAGGGGCAGCTGTGTTTTACTAACCCAGTCATAATGCCCCCTAAAAATCCTTATTGTTTC
>Python-mir-365-3p (predicted)
AATGCCCCCTAAAAATCCTTA

>Python-mir-375_pre
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>Python-mir-375-3p
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>Python-mir-383_pre
CAGTCACCTGCTCCTCAGATCAGAAGGTGATTGTGGCTTTGGTTTTGATATGAAACAGCCACAGCACTGCCTGGTCAGAAAGAGCAAGTGTACT
>Python-mir-383-5p
AGATCAGAAGGTGATTGTGGCT
>Python-mir-383-3p
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>Python-mir-425_pre
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>Python-mir-425-3p
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>Python-mir-429_pre
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>Python-mir-429-3p
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>Python-mir-449a_pre
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>Python-mir-449a-5p
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>Python-mir-449b_pre
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AGGCAGTGTAGAATTAGCTGGCT
>Python-mir-449b-3p
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>Python-mir-449c_pre
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>Python-mir-449c-5p
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>Python-mir-449d_pre
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>Python-mir-449d-5p (predicted)
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>Python-mir-454_pre
AGGATAAAACCCTATCAATATTGCCTCTGCTTCTTCACTCGGTCTTAGTAGTGCAATATTGCTAATAGGGTCTTTTCTTT
>Python-mir-454-3p (predicted)
TAGTGCAATATTGCTAATAG

>Python-mir-455_pre
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>Python-mir-455-5p
TATGTGCCCTTGGACTACAT
>Python-mir-455-3p
GCAGTCCATGGGCATATACAC

>Python-mir-456_pre
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>Python-mir-456-3p
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>Python-mir-456-5p
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CATGGTGCAGATGGCAGCGCCATTTTTCAGAGCTATAAACAGTATCATTTGTCATAGCTCTTTGAATGGTACTGCCGTATGTACCG
>Python-mir-458-3p
ATAGCTCTTTGAATGGTACTGC

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>Python-mir-489-3p (predicted)

GTGACATCTTATGTACGGCTGC

>Python-mir-490_pre
ATGTTTCATGATTTCGACACCATGGATCTCCAGGTGGGTCAAGATTATAGAGAAACACCAACCTGGAGGACTCCATGCTGTTGAGCTGTTTACAAGC

>Python-mir-490-3p
CCAACCTGGAGGACTCCATGCTG

>Python-mir-490-5p
CCATGGATCTCCAGGTGGGTC

>Python-mir-499_pre
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>Python-mir-499-3p
AACATCACTTTAAGTCTGTGCT

>Python-mir-499-5p
TTAAGACTTGCAGTGATGTTTA

>Python-mir-551a_pre
TTGCCTGTTGTTTACCTGGGAAATCAAGAATGGGTGGGGCCTGTGAATATGAGAGGAGGCGACCCACTCTTGGTTTCCAAGGTCAGCAGGGA

>Python-mir-551a-3p (predicted)
GCGACCCACTCTTGGTTTCCAA

>Python-mir-551b_pre
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>Python-mir-551b-3p
GCGACCCATACTTGGTTTTCAGT

>Python-mir-551b-5p
GAAATCAAGGCTGGGTGAGACCT

>Python-mir-599_pre
GAACATCCACAGTGTGTTTGTATAAGCTGACATGGGACAGGAATTTCTTTTTCACTGTTGTGTCAATTTATCAAACCCATACGTGGATAGCAA

>Python-mir-599-3p (predicted)
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>Python-mir-737-3p
AATCAAACCTAAAGAAAATG

>Python-mir-737-5p
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>Python-mir-875_pre
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>Python-mir-875-5p
AATACCTCAGCCTTATCAGGTG

>Python-mir-1306_pre
ATGAACAGCCTCCACCACCTCCCCTGCAAACGTCCAGTGACGCAGAGGTAATGGACGTTGGCTCTGGTGGTGATGGACAGTCAGATAC

>Python-mir-1306-3p
TGGACGTTGGCTCTGGTGGTGA

>Python-mir-1329_pre
CATCTGGTTGTAGGGGTACAGTGATCAGGTTACGACGGATTTCTCTAGTAACAACCCCGTAGCTTGATCACCATCTCCCTATGACTCAGAT

>Python-mir-1329-3p
CCCCGTAGCTTGATCACCATCT

>Python-mir-1329-5p
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AAGCTGAGGAGTGTTC AAGGACTGTCTAACCTGAGAATGGTGAAACAAAATGCTCAATCTCAGGTCCGTCAGCCCATGAGACGTTTCCTTCT
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>Python-mir-1388-3p
AATCTCAGGTCCGTCAGCCCATG

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>Python-mir-1397-5p
TGCATTGCGACGGGTTACATC
>Python-mir-1397-3p
ATGTAACCCAACGCAGCATGA

>Python-mir-1641_pre
ATACAGGGCTTTTCTGGGATCAATGACCATCTGGGGTCATCATCTCCTCCAAGTTAGTTATTAATCCTTAGGAAACACTTGGTGCTTTT
>Python-mir-1641-5p (predicted)
TGGGATCAATGACCATCTGGG

>Python-mir-1662_pre
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>Python-mir-1662-5p (predicted)
TTGACATCATCATACTTGGGA

>Python-mir-1677_pre
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>Python-mir-1677-3p
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>Python-mir-1677-5p
ACCAAAGCCCTCGAGGACAAT

>Python-mir-1788_pre
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Supplemental File 6 – Age constraints for nodes for Bayesian analysis (Fig. 1)

Node	Age-indicative fossil	Hard Minimum (Ma)	Soft Maximum (Ma)	Reference
<i>Gallus-Taenopygia-Columba</i>	<i>Vegavis</i>	66	86.5	Benton et al. 2009
<i>Chrysemys-Chelonia</i>	<i>Lindholmemyx</i>	88.6	149.6	Joyce et al. 2014
<i>Anolis-Python</i>	<i>Haasiophis</i>	99.6-93.5	None (point estimate)	Tchernov et al. 2000
(<i>Chrysemys +Chelonia</i>)- (<i>Apalone +Pelodiscus</i>)	<i>Pantrionichidae indet.</i>	125+-1	199.6+-0.6	Joyce et al. 2013
Birds-Crocodylians	<i>Arizonasaurus</i>	239	250.4	Benton et al. 2009
Lepidosauers-Archosaurs	<i>Protorosaurus</i>	255.9	299.8	Benton et al. 2009
Mammals-Reptiles	<i>Hylonomus</i>	312.3	330.4	Benton et al. 2009
Xenopus-Amniotes	<i>Lethiscus</i>	330.4	350.1	Benton et al. 2009
Coelacanth-Tetrapods	<i>Eoactinistia</i>	407-409	None (point estimate)	Johanson et al. 2006
Zebrafish-Tetrapods	<i>Psarolepis</i>	416	421.75	Benton et al. 2009

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Ami TT-GCCCCAATCAGGAGATAACTATAACAACCTACTGCCTTTCCC--GGGTGAGGTAGTAAG [636]
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Tgu TT-GCCCCAATCAGGAGATAACTATAACAACCTACTGCCTTTCCC----- [548]
Cli TT-GCCCCAGTCAGGAGATAACTATAACAACCTACTGCCTTTCCC----- [548]
Gga TT-GCCCCAATCAGGAGATAACTATAACAACCTACTGCCTTTCCC----- [548]
Xtr TTTTGCCC----ATGGAGATAACTAGACAAACTACTGCCTTTGCC--GGATGAGGTAGTAAG [393]
Lch TTTTGCCCC-ATTGGGAGATAACTATAACAACCTACTGCCTTTCCC----- [548]
Dre TTTTGCCCC-ATCAGGAGTTAACTATAACAACCTACTGCCTTTCCC--TGGTGAGGTAGTAAG [554]

Hsa TTGTATTGTTGTGGGGTAGGGATAT-TA-GGCCCAATT-AGAAGATAACTATAACAACCTT [689]

Mmu TTGTATTGTTGTGGGGTAGGGATTT-TA-GGCCCCAGTA-AGAAGATAACTATAACAACCTT [689]
Mdo ----- [477]
Meu ----- [470]
Oan TTGTATTGTTGTGGGGTAGGGATTTCTTTTGCCCCAATT--AGCGATAACTATAACAATTT [622]
Aca TTGTATTGTTGTGGGGTAGGGAT---TTGTGCCCCAAAT-CAGAGATAACTATAACAACCTT [693]
Pbi TTGTATTGTTGTGGGGTAGGGAT---TTGTGCCCCAAAT-CAGAGATAACTATAACAACCTT [692]
Cpi TTGTATTGTTGTGGGGTCGGGAT---TCGTGCCCCAA-T-CAGAGATAACAATATAACAACCTT [692]
Cmy TTGTATTGTTGTGGGGTCAGGAT---TCATGCCCCAA-T-CAGAGATAACGATAACAACCTT [692]
Psi ----- [621]
Asp ----- [621]
Ami TTGTATCGTTGGGGGGTCGGGAT---TGGAGCCCCGGTG-TCGAGGTAACTATAACAACCTT [692]
Asi TTGTATCGTTGTGGGGTCGGGAT---TGGAGCCCCGGTG-TCGAGGTAACTATAACAACCTT [692]
Tgu ----- [548]
Cli ----- [548]
Gga ----- [548]
Xtr TTGTATTGTTGTGGGGGTTTTTA-----TTTCCCCAAATTAGGAGATAACTATAACAGCTT [448]
Lch ----- [548]
Dre TTGTGTTGTTGTGGGGATCAGTATAGTATGGCCCTTGA-AGGAGATAACTATAACAATTT [613]

Hsa ACTACTTTCC--TGGGATGAGGTAGTAGATTGTATAGTTTTAGGGTCATACCCCATCTTG [747]
Mmu ACTACTTTCC--TGGGATGAGGTAGTAGATTGTATAGTTTTAGGGTCATACCCCATCTTG [747]
Mdo -----CGGGATGAGGTAGTAGATTGTATAGTTTTAGGGTCACACCCGATCTCG [525]
Meu -----CGGGATGAGGTAGTAGATTGTATAGTTTTAGGGTCACACCCGATCTTG [518]
Oan ACTACTTTCC--TGGGATGAGGTAGTAGATTGTATAGTTTTAGGGTCATACCCGATCTTG [680]
Aca ACTACTTTCC--TGGGATGAGGTAGTAGATTGTATAGTTTTAGGGTCATACCCGGTCTTG [751]
Pbi ACTACTTTCC--TGGGATGAGGTAGTAGATTGTATAGTTTTAGGGTCATACCCGGTCTTG [750]
Cpi ACTACTTTCC--GGGGATGAGGTAGTAGATTGTATAGTTTTAGGGTCACACCCGGTCTCG [750]
Cmy ACTACTTTCC--GGGGATGAGGTAGTAGATTGTATAGTTTTAGGGTCACACCCGGTCTCG [750]
Psi ----- [621]
Asp ----- [621]
Ami ACTACTTTCC--TGGGCTGAGGTAGTAGATTGTATAGTTCT--GGGTCACACCCG--CGCG [747]
Asi ACTACTTTCC--TGGGCTGAGGTAGTAGATTGTATAGTTCT--GGGTCACACCCG--CGCG [747]
Tgu ----- [548]
Cli ----- [548]
Gga ----- [548]
Xtr ACTGCCTTCC--CAGGATGAGGTAGTAGATTGTATAGTTTTGGGGTCACACCCGATCTGG [506]
Lch -----CGGGTTGAGGTAGTAGATTGTATAGTTTTAGGGTCACACCCGATCTTG [596]
Dre ACTGCCTTCC--TGGGATGAGGTAGTAGTTTTGTATAGTTTTAGGATCACACCAGATCTGG [671]

Hsa GAGATAACTATAACAGTCTACTGTCTTTCCCA--GGCTGAGGTAGTAGTTTGTACAGTTT- [804]
Mmu GAGATAACTATAACAGTCTACTGTCTTTCCCA--GGCTGAGGTAGTAGTTTGTACAGTTT- [804]
Mdo GAGATAACTATAACAGTCTACTGTCTTTCCCA--GGCTGAGGTAGTAGTTTGTACAGTTT- [582]
Meu GAGATAACTATAACAGTCTACTGTCTTTCTCA----- [549]
Oan GAGATAACTATAACAGTCTACTGTCTTTCCCA--GGCTGAGGTAGTAGTTTGTACAGTTT- [737]
Aca GAGATAACTATAACAATCTACTGTCTTTCCCTA--GGTTGAGGTAGTAGTTTGTACAGTTT- [808]
Pbi GAGATAACTATAACAATCTACTGTCTTTCCCTA--GGCTGAGGTAGTAGTTTGTACAGTTT- [807]
Cpi GAGATAACTATAACAGTCTACTGTCTTTCCCG--GGCTGAGGTAGTAGTTTGTACAGTTT- [807]
Cmy GAGATAACTATAACAGTCTACTGTCTTTCCCG--GGCTGAGGTAGTAGTTTGTACAGTTT- [807]
Psi -----GGCTGAGGTAGTAGTTTGTACAGTTT- [647]
Asp -----GGCTGAGGTAGTAGTTTGTACAGTTT- [647]
Ami GAGATAACTATAACAGCCTACTGTCTTTCCCTG--AGCTGAGGTAGTAGTTTGTACAGTTT- [804]
Asi GAGATAACTATAACAGCCTACTGTCTTTCCCTG--AGCTGAGGTAGTAGTTTGTACAGTTT- [804]
Tgu -----GGCTGAGGTAGTAGTTTGTACAGTTT- [574]
Cli -----GGCTGAGGTAGTAGTTTGTACAGTTT- [574]
Gga -----GGCTGAGGTAGTAGTTTGTACAGTTT- [574]
Xtr GAGATAACTATAACAGTTTACTGTCTTTCCCTG--GGCTGAGGTAGTTGTTTGTACAGTTT- [563]
Lch GAGATAACTATAACAGTCTACTGTCTTTCCCTG--GGCTGAGGTAGTAGTTTGTACAGTTT- [653]

Dre GAGATAACTATACAGTCTACTGTCTTTCCCA--GGTTGAGGTAGTTGTTTGTACAGTTTT [729]

Hsa GAGGGTCTATGATAACCACCCGGTACAGGAGAT-AACTGTACAGGCCACTGCCTTGCCAG- [862]
Mmu GAGGGTCTATGATAACCACCCGGTACAGGAGAT-AACTGTACAGGCCACTGCCTTGCCAG- [862]
Mdo GAGGGTCTATGATAACCACCCGGTACAGGAGAT-AACTGTACAGGCCACTGCCTTGCCAG- [640]
Meu ----- [549]
Oan CAGGGTCTACAATACCACCCGGTATAGGAGAT-AACTGTACAGGCCACTGCCTTGCCAG- [795]
Aca GAGGGTCTATGATAACCACCCGGTACAGGAGAT-AACTGTACAGGCCACTGCCTTGCCAG- [866]
Pbi GAGGGTCTACGATAACCGCCGGTACAGGAGAT-AACTGTACAGGCCACTGCCTTGCCAG- [865]
Cpi GAGGGTCTATGATAACCACCCGGTACAGGAGAT-AACTGTACAGGCCACTGCCTTGCCAG- [865]
Cmy GAGGGTCTATGATAACCACCCGGTACAGGAGAT-AACTGTACAGGCCACTGCCTTGCCAG- [865]
Psi GAGGGTCTATGATAACCACCCGGTATAGGAGAT-AACTGTACAGGCCACTGCCTTGCCAG- [705]
Asp GAGGGTCTATGATAACCACCCGGTATAGGAGAT-AACTGTACAGGCCACTGCCTTGCCAG- [705]
Ami GAGGGTCTATGATAACCACCCGGTACAGGAGAT-AACTGTACAGGCCACTGCCTTGCCAG- [863]
Asi GAGGGTCTATGATAACCACCCGGTACAGGAGAT-AACTGTACAGGCCACTGCCTTGCCAG- [863]
Tgu GAGGGTCTATGATAACCACCCGGTACAGGAGAT-AACTGTACAGGCCACTGCCTTGCCAG- [632]
Cli GAGGGTCTATGATAACCACCCGGTACAGGAGAT-AACTGTACAGGCCACTGCCTTGCCAG- [632]
Gga GAGGGTCTATGATAACCACCCGGTACAGGAGAT-AACTGTACAGGCCACTGCCTTGCCAG- [632]
Xtr AAGGGTCTGTGACACCACCTCTGTTGGAGAT-AACTGTACAGGCCACTGCCTTGCCAG- [621]
Lch GAGGGTTTGTGATAACCACCCGGTAATGGAGAT-AACTGTACAAGCCACTGCCTTGCCAG- [711]
Dre TAGGGTCTGTTATTCTGCCCTGTTAAGGAGCT-AACTGTACAGACTACTGCCTTGCCAG- [787]

Hsa -CTGGCTGAGGTAGTAGTTTGTGCTGTTGGTCGGGTGTGACATTGCCCGCTGTGGAGAT [921]
Mmu -CTGGCTGAGGTAGTAGTTTGTGCTGTTGGTCGGGTGTGACATTGCCCGCTGTGGAGAT [921]
Mdo -CTGGCTGAGGTAGTAGTTTGTGCTGTTGGTCGGGTGTGACATTGCCCGCTGTGGAGAT [699]
Meu -CTGGCTGAGGTAGTAGTTTGTGCTGTTGGTCGGGTGTGACATTGCCCGCTGTGGAGAT [608]
Oan ----- [795]
Aca -CTGGCTGAGGTAGTAGTTTGTGCTGTTGGTCGGGTGTGACATTGCCCGCTGTGGAGAT [925]
Pbi -CTGGCTGAGGTAGTAGTTTGTGCTGTTGGTCGGGTGTGACATTGCCCGCTGTGGAGAT [924]
Cpi -CTGGCTGAGGTAGTAGTTTGTGCTGTTGGTCGGGTGTGACATTGCCCGCTGTGGAGAT [924]
Cmy -CTGGCTGAGGTAGTAGTTTGTGCTGTTGGTCGGGTGTGACATTGCCCGCTGTGGAGAT [924]
Psi -CTGGCTGAGGTAGTAGTTTGTGCTGTTGGTCGGGTGTGACATTGCCCGCTGTGGAGAT [764]
Asp -CTGGCTGAGGTAGTAGTTTGTGCTGTTGGTCGGGTGTGACATTGCCCGCTGTGGAGAT [764]
Ami -CTGGCTGAGGTAGTAGTTTGTGCTGTTGGTCGGGTGTGACATTGCCCGCTGTGGAGAT [922]
Asi ----- [863]
Tgu -CTGGCTGAGGTAGTAGTTTGTGCTGTTGGTCGGGTGTGACATTGCCCGCTGTGGAGAT [691]
Cli -CTGGCTGAGGTAGTAGTTTGTGCTGTTGGTCGGGTGTGACATTGCCCGCTGTGGAGAT [691]
Gga -CTGGCTGAGGTAGTAGTTTGTGCTGTTGGTCGGGTGTGACATTGCCCGCTGTGGAGAT [691]
Xtr -CTGGCTGAGGTAGTAGTTTGTGCTGTTGGTCGGGTGTGACATTGCCCGCTGTGGAGAT [680]
Lch -CTGGCTGAGGTAGTAGTTTGTGCTGTTGGTAGGGTGTGACATTGCCCGCTATGGAGAT [770]
Dre -CTGGCTGAGGTAGTAGTTTGTGCTGTTGGTTGGGATGTGACATTGCCCGTTATGGAGAT [846]

Hsa AACTGCGCAAGCTACTGCCTTGCT----- [945]
Mmu AACTGCGCAAGCTACTGCCTTGCT----- [945]
Mdo AACTGCGCAAGCTACTGCCTTGCT----- [723]
Meu AACTGCGCAAGCTACTGCCTTGCT----- [632]
Oan ----- [795]
Aca AACTGCGCAAGCTACTGCCTTGCT--GTGAGGTAGTAGGTTGTATAGTTTG-TGGGAGGG [982]
Pbi AACTGCGCAAGCTACTGCCTTGCT--GTGAGGTAGTAGGTTGTATAGTTTG-TGGGAGGG [981]
Cpi AACTGCGCAAGCTACTGCCTTGCT--GTGAGGTAGTAGGTTGTATAGTTTGGTGGGAGGG [982]
Cmy AACTGCGCAAGCTACTGCCTTGCT--GTGAGGTAGTAGGTTGTATAGTTTGGTGGGAGGG [982]
Psi AACTGCGCAAGCTACTGCCTTGCT--GTGAGGTAGTAGGTTGTATAGTTTGGTGGGAGGG [822]
Asp AACTGCGCAAGCTACTGCCTTGCT--GTGAGGTAGTAGGTTGTATAGTTTGGTGGGAGGG [822]
Ami AACTGCGCAAGCTACTGCCTTGCT--GTGAGGTAGTAGGTTGTATAGTTTGGTGGGAGGG [980]
Asi -----GTGAGGTAGTAGGTTGTATAGTTTGGTGGGAGGG [897]
Tgu AACTGCGCAAGCTACTGCCTTGCT--GTGAGGTAGTAGGTTGTATAGTTTGGTGGGAGGG [749]
Cli AACTGCGCAAGCTACTGCCTTGCT--GTGAGGTAGTAGGTTGTATAGTTTGGTGGGAGGG [749]

Gga AACTGCGCAAGCTACTGCCTTGCT--GTGAGGTAGTAGGTTGTATAGTTTGGTGGGAGGG [749]
Xtr AACTGCGCAAGCTACTGCCTTGCT----- [704]
Lch AACTGCGCAAGCTACTGCCTTGCT--GTGAGGTAGTAGGTTGTATAGTTTGTAGTGGACAGG [828]
Dre GACTGCGCAAGCTACTCCCTTGCC--GTGAGGTAGTAGGTTGTATAGTTTGGTGGGAGGG [904]

Hsa ----- [945]
Mmu ----- [945]
Mdo ----- [723]
Meu ----- [632]
Oan -----GGCTGAGGTA [805]
Aca ATTACATCCCATTTTCAGGTGATAAATAACAGTCTATTGCCTTCCTTA--GGCTGAGGTA [1040]
Pbi ATTATATCCCATTTTCAGGTGATAAATAACAGTCTATTGCCTTCCTTA--GGCTGAGGTA [1039]
Cpi ATTTTCATCCCATTTTCAGGTGATAAATAACAGTCTATTGCCTTCCTTA--GGCTGAGGTA [1040]
Cmy ATTTTCATCCCATTTTCAGGTGATAAATAACAGTCTATTGCCTTCCTTA--GGCTGAGGTA [1040]
Psi ATTTTCATCCCATTTTCAGGTGATAAATAACAGTCTATTGCCTTCCTTA--GGCTGAGGTA [880]
Asp AATTCATCCCATTTTCAGGTGATAAATAACAGTCTATTGCCTTCCTTA--GGCTGAGGTA [880]
Ami ATTTTCATCCCATTTTCAGGTGATAAATAACAGTCTATTGCCTTCCTTG--GGCTGAGGTA [1038]
Asi ATTTTCATCCCATTTTCAGGTGATAAATAACAGTCTATTGCCTTCCTTG--GGCTGAGGTA [955]
Tgu ATTTGATCCCATTTTCAGGTGATAAATAACAGTCTATTGCCTTCCTTA--GGCTGAGGTA [807]
Cli ATTTGATCCCATTTTCAGGTGATAAATAACAGTCTATTGCCTTCCTTA--GGCTGAGGTA [807]
Gga ATTCTGTCCCATTTTCAGGTGATAAATAACAGTCTATTGCCTTCCTTA--GGCTGAGGTA [807]
Xtr ----- [704]
Lch GTTTCGTTTCAGTTCAGATGATAAATAACAGTCTATTGCCTTCCTTA--GGCTGAGGTA [886]
Dre ATCAAACCCTGTT-CAGCTGATAAATAACAGTCTATTGCCTTCCTTG--GGCTGAGGTA [961]

Hsa ----- [945]
Mmu ----- [945]
Mdo ----- [723]
Meu ----- [632]
Oan GTAGATTGAATAGTTGTGGGGTCACG--GCCTCCCTGTGTGCTAACTATAACAATCTACTG [863]
Aca GTAGATTGAATAGTTGTGGAGCCTTA--TTCTCCCTCTGAGCTAACTATAACAATCTACTG [1098]
Pbi GTAGATTGAATAGTTGTGGAGCCATC--TTCTCCCTTTGAGCTAACTATAACAATCTACTG [1097]
Cpi GTAGATTGAATAGTTGTGGAGTCCTA--CCCTCCCTTTGAGCTAACTATAACAATCTACTG [1098]
Cmy GTAGATTGAATAGTTGTGGAGTCCTA--CCCTCCCTTTGAGCTAACTATAACAATCTACTG [1098]
Psi GTAGATTGAATAGTTGTGGAGTCCTA--CTCTCCCTCTGAGCTAACTATAACAATCTACTG [938]
Asp GTAGATTGAATAGTTGTGGAGTCCTA--CCCTCCCTCTGAGCTAACTATAACAATCTACTG [938]
Ami GTAGATTGAATAGTTGTGGAGTCCTA--CCCTCCCTTTGAGCTAACTATAACAATCTACTG [1096]
Asi GTAGATTGAATAGTTGTGGAGTCCTA--CCCTCCCTTTGAGCTAACTATAACAATCTACTG [1013]
Tgu GTAGATTGAATAGTTGTGGAGTCTGG--TCCTCCCTCTGAGCTAACTATAACAATCTACTG [865]
Cli GTAGATTGAATAGTTGTGGAGTCCGA--TCCTCCCTTTGAGCAAACCTATAACAATCTACTG [865]
Gga GTAGATTGAATAGTTGTGGAGTCCTA--TCCTCCCTTTGAGCTAACTATAACAATCTACTG [865]
Xtr ----- [704]
Lch GTAGATTGAATAGTTGTGGAGGCTCCT-GCTCTCCCTTTGAGATAAATAACAATCTACTG [945]
Dre GTAGATTGAATAGTTGTGGAGCCCTGCGCTCTCTCTGAGATAAATAACAATCTACTG [1021]

Hsa -----CTGCTTTGGGAAACATACTTCTTTTATATGCCCATATGGACCTGCTAA-GCTA [995]
Mmu -----CTGCTTTGGACACATACTTCTTTTATATGCCCATATGAACCTGCTAA-GCTA [995]
Mdo -----CTGCTTTGAGAAACATACTACTTTTATATGCCCATATGAACCTGCTAA-GCTA [773]
Meu ----- [632]
Oan TCTTTCC--CTGCTTTGAGGAACATACTTCTTTTATATCCCCATATGAACCTGGCAA-GCTA [920]
Aca TCTTTCC--CTGCTTTGAGTGACATACTTCTTTTATATGCCCATATGAACCTGGCAA-ACTA [1155]
Pbi TCTTTCC--CTGCTTTGAGTGACATACTTCTTTTATATGCCCATATGAACCTGGCAA-ACTA [1154]
Cpi TCTTTCC--CTGCTTTGAGAGACATACTTCTTTTATATGCCCATATGAACCTGGCAA-GCTA [1155]
Cmy TCTTTCC--CTGCTTTGAGAGACATACTTCTTTTATATGCCCATATGAACCTGGCAA-GCTA [1155]
Psi TCTTTCC--CTGCTTTGAGAAACATACTTCTTTTATATGCCCATATGAACCTGGCAA-GCTA [995]
Asp TCTTTCC--CTGCTTTGAGAAACATACTTCTTTTATATGCCCATATGAACCTGGCAA-GCTA [995]
Ami TCTTTCC--CTGCTTTGAGAGACATACTTCTTTTATATGCCCATATGAACCTGGCAA-GCTA [1153]

Asi TCTTTCC--CTGCTTGAGAGACATACTTCTTTATATGCCCATATGAACCTGGCAA-GCTA [1070]
Tgu TCTTTCC--CTGCTTGAGAGACATACTTCTTTATATGCCCATATGAACCTGGCAA-GCTA [922]
Cli TCTTTCC--CTGCTTGAGAGACATACTTCTTTATATGCCCATATGAACCTGGGAA-GCTA [922]
Gga TCTTTCC--CTGCTTGAGAGACATACTTCTTTATATGCCCATATGAACCTGGCAA-TCTA [922]
Xtr -----CTATTTGGGAGACATACTTCTTTATATGTCCCATATGGAAGTGCCAATGCTA [755]
Lch TCTTTCC--CTGCTTGAGGGACATACTTCTTTATATACCCCATATGAACCTGTCTA-GCTA [1002]
Dre TCTTTCC--CCGCTTGGTAGACATACTTCTTTATATGCCCATATGAACAAGAGCA-GCTA [1078]

Hsa TGGAATGTAAAGAAGTATGTATCTCAGGCCG--ACCTACTCAGAGTACATACTTCTTTAT [1053]
Mmu TGGAATGTAAAGAAGTATGTATTTTCAGGCTA--GCCTACTCAGAGCACATACTTCTTTAT [1053]
Mdo TGGAATGTAAAGAAGTATGTATTTCCGGTAG--ACCTACTCAGAGTACATACTTCTTTAT [831]
Meu -----ACCTGCTCAGAGTACATACTTCTTTAT [659]
Oan TGGAATGTAAAGAAGTATGTATTTTCAGGTGG--ACCTGCTCAGAGTACATACTTCTTTAT [978]
Aca TGGAATGTAAAGAAGTATGTATTTTCAGGTAT--ACCTGTTGAGAGCACATACTTCTTTAT [1213]
Pbi TGGAATGTAAAGAAGTATGTATTTTCAGGCAT--ACCTGCCCAGAGCACATACTTCTTTAT [1212]
Cpi TGGAATGTAAAGAAGTATGTATTTTCAGGTGG--TCCTGCCCAGAGTACATACTTCTTTAT [1213]
Cmy TGGAATGTAAAGAAGTATGTATTTTCAGGTGG--TCCTGCCCAGAGTACATACTTCTTTAT [1213]
Psi TGGAATGTAAAGAAGTATGTATTTTCAGGTGG--TCCTGCCCAGATTACATACTTCTTTAT [1053]
Asp TGGAATGTAAAGAAGTATGTATTTTCAGGTGG--TCCTGCCCAGATTACATACTTCTTTAT [1053]
Ami TGGAATGTAAAGAAGTATGTATTTTCAGGTGG--ACCTGCCCAGAGTACATACTTCTTTAT [1211]
Asi TGGAATGTAAAGAAGTATGTATTTTCAGGTGG--ACCTGCCCAGAGTACATACTTCTTTAT [1128]
Tgu TGGAATGTAAAGAAGTATGTATTTTCAGGTGG--ACCTGCTCAGAGCACATACTTCTTTAT [980]
Cli TGGAATGTAAAGAAGTATGTATTTTCAGGTGG--ACCTGCCCAGAGTACATACTTCTTTAT [980]
Gga TGGAATGTAAAGAAGTATGTATTTTCAGGTGG--ACCTGCTCAGAGCACATACTTCTTTAT [980]
Xtr TGGAATGTAAAGAAGTATGTATCTCCGATAG--ACCTGTTTGGAGTACATACTTCTTTAT [813]
Lch TGGAATGTAAAGAAGTATGTATTTTCAGGTAG--ACCTGCCCAGAACACATACTTCTTTAT [1060]
Dre TGGAATGTAAAGAAGTATGTATCCCAGGTGA--GCCTACTTGGTGTACATACTTCTTTAT [1136]

Hsa GTACCCATATGAACATACAA-TGCTATGGAATGTAAAGAAGTATGTATTTTTGGTAG--G [1110]
Mmu GTACCCATATGAACATTCAG-TGCTATGGAATGTAAAGAAGTATGTATTTTTGGGTAG--G [1110]
Mdo GTACCCATATGAACATACAA-TGCTATGGAATGTAAAGAAGTATGTATTTTTGGTAG--G [888]
Meu GTACCCATATGAACATACAA-TGCTATGGAATGTAAAGAAGTATGTATTTTTGGTAG--- [715]
Oan GTACCCATATGAACATAAAA-AGCTATGGAATGTAAAGAAGTATGTATTTTTGGCAG--G [1035]
Aca GTACCCATATGAAGATACAA-TGTTATGGAATGTAAAGAAGTATGTATTTTTGATAG--T [1270]
Pbi GTACCCATATGAAGATATAA-TGTTATGGAATGTAAAGAAGTATGTACTTTTTGGCAG--T [1269]
Cpi GTACCCATATGAACATATAA-TGCTATGGAATGTAAAGAAGTATGTATTTTTGGCAG--C [1270]
Cmy GTACCCATATGAACATACAA-TGCTATGGAATGTAAAGAAGTATGTATTTTTGGCAG--C [1270]
Psi GTACCCATATGAACATACAA-TGCTATGGAATGTAAAGAAGTATGTATTTTTGGCAG--C [1110]
Asp GTACCCATATGAACATACAA-TGCTATGGAATGTAAAGAAGTATGTATTTTTGGCAG--C [1110]
Ami GTACCCATATGAACATACAA-TGCTATGGAATGTAAAGAAGTATGTATTTTTGGCAG--C [1268]
Asi GTACCCATATGAACATACAA-TGCTATGGAATGTAAAGAAGTATGTATTTTTGGCAG--C [1185]
Tgu GTACCCATATGAACATACAA-TGCTATGGAATGTAAAGAAGTATGTATTTTTGGCAG--C [1037]
Cli GTACCCATATGAACATACAA-TGCTATGGAATGTAAAGAAGTATGTATTTTTGGCAG--C [1037]
Gga GTACCCATATGAACATACAA-TGCTATGGAATGTAAAGAAGTATGTATTTTTGGCAG--C [1037]
Xtr GTACCCATATGAACATACAA-TGCTATGGAATGTAAAGAAGTATGTATTTTTATCAG--C [870]
Lch GTACCCATATGAACATATGA-TGCTATGGAATGTAAAGAAGTATGTATTTTTGGTGG--C [1117]
Dre GTGCCCATATGAACATATAAAAAGCTATGGAATGTAAAGAAGTATGTATTCTTGGTCA--G [1194]

Hsa CTTCCCGAGGCCACATGCTTCTTTATATCCCCATATGGATTACTTTGCTATGGAATGTAA [1170]
Mmu CTTCCCCAGGCCACATGCTTCTTTATATCCTCATAGATATCTCAGCACTATGGAATGTAA [1170]
Mdo CTTTCTGAGGCAACATGCTTCTTTATATCCCCATATGAATTATGCTGCTATGGAATGTAA [948]
Meu ----- [715]
Oan CTCTCCGAGACAACATGCTTCTTTATATCCCCATATGGATTACGCTGCTATGGAATGTAA [1095]
Aca CTTTTTGAGATTACATGCTTCTTTATATCTCCATATGAATTGCCTTGCTATGGAATGTAA [1330]
Pbi CTTTTTGAGGGGACACGCTTCTTTATAATCCCATATGAATTACATTGCTATGGAATGTAA [1329]
Cpi TCTTTTGAGACAACATGCTTCTTTATATCCCCATATGAATTATGCTGCTATGGAATGTAA [1330]
Cmy TCTTTTGAGACAACATGCTTCTTTATATCCCCATATGAATTACGCTGCTATGGAATGTAA [1330]

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Psi TCTTTTGAGACAACATGCTTCTTTTATATCCCCATATGAATTACGCTGCTATGGAATGTAA [1170]
Asp TCTTTTGAGACAACATGCTTCTTTTATATCCCCATATGAATTACGCTGCTATGGAATGTAA [1170]
Ami TCTTTTGAGGCAACATGCTTCTTTTATATCCCCATAGGGATAACAGTGCTATGGAATGTAA [1328]
Asi TCTTTTGAGGCAACATGCTTCTTTTATATCCCCATAGGGATAACAGTACTATGGAATGTAA [1245]
Tgu TCTTATGAGATGACATGCTTCTTTTATATCCCCATATGGATTAGGCTGCTATGGAATGTAA [1097]
Cli TCTTATGAGATTACATGCTTCTTTTATATCCCCATAGGGATTAGGCTGCTATGGAATGTAA [1097]
Gga TCTTATGAGATGACATGCTTCTTTTATATCCCCATATGGATTAGGCTGCTATGGAATGTAA [1097]
Xtr TCACGGGAGGTCACATGCTTCTTTTATATACCCATATGAACTACATTGTTATGGAATGTAA [930]
Lch TTGCTG-AGATGACATGCTTCTTTTATATCCTCATATGGGTTTCACAGCTATGGAATGTAA [1176]
Dre CCTCTTGTGAAGACATGCTTCTTTTATATGCCCATATTAATGCTCAAGTTATGGAATGTAA [1254]

Hsa GGAAGTGTGTGGTTTTCGGCAAGT----- [1193]
Mmu GGAAGTGTGTGGTTTTCGGCAAGT----- [1193]
Mdo GGAAGTGTGTGGTTTTCGGGAAGT----- [971]
Meu ----- [715]
Oan GGAAGTGTGTGGTTTTCGGGCCAG--GCTCCCCGGGCCACACACTTCTTTCATATGCCCATA [1153]
Aca GGAAGTGTGTGGTTTTCAAGGAGA--CCTCTTGAGCCTACATACTTCTTTCATATGCCCATA [1388]
Pbi GGAAGTGTGTGGTTTTCAGAAAAGA--CCTCCCAGCCTACATACTTCTTTCATATGCCCATA [1387]
Cpi GGAAGTGTGTGGTTTTCAGGGAGA--CCTCCCAACCCTACATACTTCTTTCATATGCCCATA [1388]
Cmy GGAAGTGTGTGGTTTTCAGGGAGA--CCTCCCAACCCTACATACTTCTTTCATATGCCCATA [1388]
Psi GGAAGTGTGTGGTTTTCAGGGAGA--CCTCCCAACCCTACATACTTCTTTCATATGCCCATA [1228]
Asp GGAAGTGTGTGGTTTTCAGGGAGA--CCTCCCAACCCTACATACTTCTTTCATATGCCCATA [1228]
Ami GGAAGTGTGTGGTTTTCGGGGAGA--CCTCCCAACCCTACATACTTCTTTCATATGCCCATA [1386]
Asi GGAAGTGTGTGGTTTTCGGGGAGA--CCTCCCAACCCTACATACTTCTTTCATATGCCCATA [1303]
Tgu GGAAGTGTGTGGTTTTCAGGGAGA----- [1120]
Cli GGAAGTGTGTGGTTTTCAGGGAGA--CCTCCCAACCCTACATACTTCTTTCATATGCCCATA [1155]
Gga GGAAGTGTGTGGTTTTCAGGGAGA--CCTCCCAACCCTACATACTTCTTTCATATGCCCATA [1155]
Xtr GGAAGTGTGTGGCTTCTCTGAGT--CACCTTTAGGGCACATACTTCTTTTATATGCCCATA [988]
Lch GGAAGTGTGTGGTGTGAGTGA--CACCTCAGGAGCACATACTTCTTTCATATGCCCATA [1234]
Dre GGAAGTGTGTGGTTTTCAGGGGGA----- [1277]

Hsa -----CCTAGTT [1200]
Mmu -----CCTAGTT [1200]
Mdo -----CCTAGTT [978]
Meu -----CCTAGTT [722]
Oan GGGAGCTGCCCGAA-CTATGGAATGTTAAGAAGTGTGTGTTCTTGGGGGCT--TCTAGTT [1210]
Aca TGGAGTCGGCCAGATTTATGGAATGTTAAGAAGTATGTATCGTTGGGATGG--CCTAGTT [1446]
Pbi TGGAGTCGGCCGG--CTATGGAATGTTAAGAAGTATGTATCTTTGGGATCG--TCTAGTT [1443]
Cpi GGGAGTCAGCCGGCGTTATGGAATGTTAAGAAGTATGTATCCTTGGGCTGG--TCTAGTT [1446]
Cmy GGGAGTCAGCCGGCGTTATGGAATGTTAAGAAGTATGTATCTTTGGGCTGG--TCTAGTT [1446]
Psi GGGAGTCAGCTGGCGTTATGGAATGTTAAGAAGTATGTATCTTTGGGCTGG--TCTAGTT [1286]
Asp GGGAGTCAGCTGGCGTTATGGAATGTTAAGAAGTATGTATCTTTGGGCTGG--TCTAGTT [1286]
Ami TGGAGTCGGCTGGTATTATGGAATGTTAAGAAGTATGTATCTTTGGGCTGG--TCTAGTT [1444]
Asi TGGAGTCGGCTGGTATTATGGAATGTTAAGAAGTATGTATCTTTGGGCTGG--TCTAGTT [1361]
Tgu -----CCTAGTT [1127]
Cli TGGAGTCGGCCGGCGTTATGGAATGTTAAGAAGTATGTATTTTGGGCTGG--TCTAGTT [1213]
Gga TGGAGTCGGCCGGCGTTATGGAATGTTAAGAAGTATGTATCCTCGGGCTGG--TCTAGTT [1213]
Xtr CTGAATGAA--AATGCTATGGAATGTTAAGAAGTATGTAACCTAAGGGGTT--TTTAGTT [1044]
Lch TGGAATAATCCCCGGTTATGGAATGTTAAGAAGTATGTATTTATGGGGTGA--TCTAGTT [1292]
Dre -----CTTGCTT [1284]

Hsa CTGTGTGGAAGACTAGTGATTTTGTGTGTTTTAGATAAATAAATCGACAACAAATCACAG [1260]
Mmu CTGTGTGGAAGACTAGTGATTTTGTGTGTTTTAGATAAATAAATCGACAACAAATCACAG [1260]
Mdo CTGTGTGGAAGACTAGTGATTTTGTGTGTTTTAGATAAATAAATCGACAACAAATCACAG [1038]
Meu CTGTGTGGAAGACTAGTGATTTTGTGTGTTTTAGATAAATAAATCGACAACAAATCACAG [782]
Oan CTGTGTGGAAGACTAGTGATTTTGTGTGTTTGTAGATAAATAAATCGACAACAAATCGCAG [1270]
Aca CTGTGTGGAAGACTAGTGATTTTGTGTGTTTTAGATAAATAAATCGACAACAAATCGCAG [1506]
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Pbi CTGTGTGGAAGACTAGTGATTTTGTGTGTTTTAGATTACTAAAGTGACAACAAATCGCAG [1503]
Cpi CTGTGTGGAAGACTAGTGATTTTGTGTGTTTTAGATAACTAAATCGACAACAAATCGCAG [1506]
Cmy CTGTGTGGAAGACTAGTGATTTTGTGTGTTTTAGATAACTAAATCGACAACAAATCGCAG [1506]
Psi CTGTGTGGAAGACTAGTGATTTTGTGTGTTTTAGATAACTAAATCGACAACAAATCGCAG [1346]
Asp CTGTGTGGAAGACTAGTGATTTTGTGTGTTTTAGATAACTAAAGCGACAACAAATCGCAG [1346]
Ami CTGTGTGGAAGACTAGTGATTTTGTGTGTTTTAGATAACTAAATCGACAACAAATCGCAG [1504]
Asi CTGTGTGGAAGACTAGTGATTTTGTGTGTTTTAGATAACTAAATCGACAACAAATCGCAG [1421]
Tgu CTGTGTGGAAGACTAGTGATTTTGTGTGTTTTGATAACTAAATGACAACAAATCACAG [1187]
Cli CTGTGTGGAAGACTAGTGATTTTGTGTGTTTTAGATAACTAAATGACAACAAATCGCAG [1273]
Gga CTGTGTGGAAGACTAGTGATTTTGTGTGTTTTAGATAAATAAATGACAACAAATCACAG [1273]
Xtr CTGTGTGGAAGACTAGTGATTTTGTGTGTTTTAGATAACAACATGACAACAAATCGCAG [1104]
Lch CTGTGTGGAAGACTAGTGATTTTGTGTGTTTTAGGTAAGTGCATGACAACAAATCACAG [1352]
Dre CTGTGTGGAAGACTTGTGATTTTGTGTGTTTGTAGTTAGATGAAGTGACAACAAATCACGG [1344]

Hsa TCTGCCATATGGCACAGGCCA--GCTGGCCCCATCTGGAAGACTAGTGATTTTGTGTGTT- [1317]
Mmu TCTGCCATATGGCACAGGCCA--GCCAGCCCCGTTTGGGAAGACTAGTGATTTTGTGTGTT- [1317]
Mdo TCTGCCATATGGCACAGGCCA--CCTGGCCCCATCTGGAAGACTAGTGATTTTGTGTGTT- [1095]
Meu TCTGCCATATGGCACAGGCCA--CCTGGCCCCATCTGGAAGACTAGTGATTTTGTGTGTT- [839]
Oan TCTGCCATATGGCACAGACCA--CCGGGCCCCGCTGGAAGACTAGTGATTTTGTGTGTT- [1327]
Aca TCTACCATATGGCACAGGCCA--CCCTGCTTCTTATGGAAGACTAGTGATTTTGTGTGTT- [1563]
Pbi TCTACCATATGGCACAGTCCA--CCGGACTCCTTATGGAAGACTAGTGATTTTGTGTGTTT [1561]
Cpi TCTGCCATATGGCACAGGCCA--CCCCGTCCCTTATGGAAGACTAGTGATTTTGTGTGTT- [1563]
Cmy TCTGCCATATGGCACAGGCCA--CCCCGTCCCTTATGGAAGACTAGTGATTTTGTGTGTT- [1563]
Psi TCTGCCATATGGCACAGGCCA--CCATGTCCCTTATGGAAGACTAGTGATTTTGTGTGTT- [1403]
Asp TCTGCCATATGGCACAGGCCA--CCATGTCCCTTATGGAAGACTAGTGATTTTGTGTGTT- [1403]
Ami TCTGCCATATGGCACAGACCA--CCTGACCCTGTATGGAAGACTAGTGATTTTGTGTGTT- [1561]
Asi TCTGCCATATGGCACAGACCA--CCTGACCCCGTATGGAAGACTAGTGATTTTGTGTGTT- [1478]
Tgu TCTGCCATATGGCACAGACCA--CCTGCTTCCCTGTGGAAGACTAGTGATTTTGTGTGTT- [1244]
Cli TCTGCCATATAGCACAGACTG--CCCAGCTCCCTCTGGAAGACTAGTGATTTTGTGTGTT- [1330]
Gga TCTGCCATATGGCACAGATCA--CGCGGTGCCCTCTGGAAGACTAGTGATTTTGTGTGTT- [1330]
Xtr TCTGCCATATGGCACAGACCA--GCTGACTCTTTGTGGAAGACTAGTGATTTTGTGTGTT- [1161]
Lch TCTACCATATAGCACAGGCCA--TCTCAGTCACGGTGGGAAGACTAGTGATTTTGTGTGTT- [1409]
Dre TCTGCCCTACAGCACAGGCC--ATTTGGGCATTTATGGAAGACTAGTGATTTTGTGTGTT- [1401]

Hsa GTCTTAC--TGCGCTC-AACAACAAATCCCAGTCTACCTAATGGTGCCAGCCA--TCTAG [1372]
Mmu GTGTCTC--TGTATCC-AACAACAAGTCCCAGTCTGCCACATGGTGCTGGTCA--GCCAG [1372]
Mdo CTCTAACGTAAGATT-GACAACAAATCCCAGTCTGCCTTATGGTGCTTGGCC--TCAA [1152]
Meu CTCTAACATAAGATT-GACAACAAATCCCAGTCTGCCTCATGGTGCTTGGCC----- [891]
Oan CTCTAGCTGACCGCAC-GACAACAAATCCCAGTCTGCCTGACGGTGCCCGGTG----- [1379]
Aca CTGTAGTTCATCTCAC-GACAACAAGTACAGTCTGCCTTATGGGGCCTGGCC--CTGGT [1620]
Pbi CTGTAGCTCATCTCAT-GACAACAAGTACAGTCTGCCTTCTGGAGTCTGGCC--CCTGC [1618]
Cpi CTATAGCTCATCTCAT-GACAACAAGTACAGTCTGCCTTATGGTGCATGGCC--TCTGG [1620]
Cmy CTATAGCTCATCTCAT-GACAACAAGTACAGTCTGCCTTATGGTGCATGGCC--TCTGG [1620]
Psi CTATAGCTCATCTCAC-GACAACAAGTACAGTCTGCCTTATGGTGTACGGCC--TCTGG [1460]
Asp CTATAGCTCATCTCAT-GACAACAAGTACAGTCTGCCTTATGGTGTACGGCC--TCTGG [1460]
Ami CTATGGCTCATCTCAC-GACAACAAGTACAGTCTGCCTTATGGTGCATGGCC--TCTGG [1618]
Asi CTATGGCTCATCTCAC-GACAACAAGTACAGTCTGCCTTATGGTGCATGGCC--TCTGG [1535]
Tgu GTATGGCTCATCCCAC-CACAACAAGTACAGTCTGCCTTAGGGGCACACGGCC--CCTGG [1301]
Cli GTATGGCTCATCCCAC-CACAACAAGTACAGTCTGCCTTAGGGTGCCTGGCC--TCTGG [1387]
Gga GTATGGCTCATCCCAC-CACAACAAGTACAGTCTGCCTTAGGGGCACACGGCC--TCTGG [1387]
Xtr GTAAGCCTTATTGCAT-GACAACAAGTACAGTCTGCCTCACAGTGCCAGCA----- [1213]
Lch ATACCCTTA-AACAG-GACAGCAAGTACAGTCTGCCTCAGTGCTCGGGACA--TCCAG [1465]
Dre GTGACGTCATCAGTACTGACAACAAGTACAGTCTGCCTCAGTGACCAGAATC--CCCGA [1459]

Hsa TGCTGTGTGGAAGACTAGTGATTTTGTGTGTTCTGAT--GTA-CTACGA-CAACAAGTAC [1428]
Mmu TGCTATGTGGAAGACTTGTGATTTTGTGTGTTCTGAT--ATG-ATATGA-CAACAAGTAC [1428]
Mdo TGCTGTATGGAAGACTAGTGATTTTGTGTGTTGTAAT--ATA-TAAAGA-CAACAAAAC [1208]

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Meu ----- [ 891 ]
Oan ----- [ 1379 ]
Aca TTCTGGGTGGAAGACTAGTGATTTTGTGTTCTGACTTATAATTTAGA-CAACAAATCGT [ 1679 ]
Pbi TTCTGATTGGAAGACTAGTGATTTTGTGTTCTGGTTTAGAAAGCTGA-CAACAAATCAC [ 1677 ]
Cpi CTCTGTGTGGAAGACTAGTGATTTTGTGTTCTGACTTATAAAAAGTGA-CAACAAATCAT [ 1679 ]
Cmy CTCTGTGTGGAAGACTAGTGATTTTGTGTTCTTACTTATAAAAAGTGA-CAACAAATCAT [ 1679 ]
Psi CTCTGTGTGGAAGACTAGTGATTTTGTGTTCTGAC--ATAAAAAGTGA-CAACAAATCAT [ 1517 ]
Asp CTCTGTGTGGAAGACTAGTGATTTTGTGTTCTGAC--ATAAAAAGTGA-CAACAAATCAT [ 1517 ]
Ami CTCTGCGTGGAAGACTAGTGATTTTGTGTTCTGACTTATAAAGGTGA-CAACAAATCAT [ 1677 ]
Asi CTCTGCGTGGAAGACTAGTGATTTTGTGTTCTGACTTATAAAGGTGA-CAACAAATCAT [ 1594 ]
Tgu CTCTGTGTGGAAGACTAGTGATTTTGTGTTGTG-TTTGTAAAGGTGA-CAACAAATCAT [ 1359 ]
Cli CTCTGCGTGGAAGACTAGTGATTTTGTGTTCTGATTTATAAAGGTGA-CAACAAATCAT [ 1446 ]
Gga CTCTGTGTGGAAGACTAGTGATTTTGTGTTATGATTTATAAAGGTGA-CAACAAATCAT [ 1446 ]
Xtr ----- [ 1213 ]
Lch CTCTGTGTGGAAGACTAGTGATTTTGTGTTTTTGGATGGTAAAGACAG-CAACAAGTCAC [ 1524 ]
Dre TTGCTGTGGAAGACTAGTGATTTTGTGTTGTTTCTTCTGCTTCTGACAACAAGTCAC [ 1519 ]

Hsa AGCCGGCCTCATAGCGCAGACTC----- [ 1451 ]
Mmu AGCCAGCCTCATAGCGTGGACTC----- [ 1451 ]
Mdo AGCCTGCCTTACAGCGTGGACAC----- [ 1231 ]
Meu ----- [ 891 ]
Oan ----- [ 1379 ]
Aca AGCCTGCCGCCAGCGACCACAG----- [ 1702 ]
Pbi AGCCTACCATCCAGCAGGGGCCA----- [ 1700 ]
Cpi AGCCTGCCATACAGCACGGACCA--GGGTCGGTCTGGAAGACTTGTGATTTTGTGTTTTC [ 1737 ]
Cmy AGCCTGCCAAACAGCACAGACCA--GGGTCGGTCTGGAAGACTTGTGATTTTGTGTTTTC [ 1737 ]
Psi AGCCTGCCATACAGCACGGACCC--GGGTCGGTCTGGAAGACTTGTGATTTTGTGTTTTC [ 1575 ]
Asp AGCCTGCCATACAGCACAGACCC--GGGTCGGTCTGGAAGACTTGTGATTTTGTGTTTTC [ 1575 ]
Ami AGCCTGCCATACAGCACAGACTC--GGGTCGGTCTGGAAGACTTGTGATTTTGTGTTTTC [ 1735 ]
Asi AGCCTGCCATACAGCACAGACTC--GGGTCGGTCTGGAAGACTTGTGATTTTGTGTTTTC [ 1652 ]
Tgu AGCCTGCCATACAGCCCAGGCTG----- [ 1382 ]
Cli AGCCTGCCACCCAGCCCAGACCT--GGG-CAGGCTGGAAGACTTGTGATTTTGTGTTTTC [ 1503 ]
Gga AGCCTGCCATACAGCACAGATCT----- [ 1469 ]
Xtr -----GGGTCGGTTTGGAAAGACTAGTGATTTTGTGTTTTC [ 1248 ]
Lch AGTCTGCCATACAGCGTGGAGCC----- [ 1547 ]
Dre AGTCTACCTCAGCGAGCGGGCCC--TCTGCGGAGTGGAAAGACTAGTGATTTTGTGTTGAA [ 1577 ]

Hsa -----GGGCCCC [ 1458 ]
Mmu -----GGGCCTC [ 1458 ]
Mdo -----GGGCCTC [ 1238 ]
Meu -----GGGCCTC [ 898 ]
Oan -----GGTCCTC [ 1386 ]
Aca -----GGTCCTC [ 1709 ]
Pbi -----GGTCCTC [ 1707 ]
Cpi CAGTGTTCAG-GGAAGCGAACAACAAATCCCAGTC-TCCTCACAGCCCCAGG--GGTCCTC [ 1793 ]
Cmy CGGTGTTCAG-GGAAGCGAACAACAAATCCCAGTC-TCCTCACAGCCCCAGG--GGTCCTC [ 1793 ]
Psi TGGTGTTCAG-GGAAGCGAACAACAAATCCCAGTC-TCCTCACAGCCCCAGG--GGTCCTC [ 1631 ]
Asp TGGTGTTCAG-GGAAGCGAACAACAAATCCCAGTC-TCCTCACAGCCCCAGG--GGTCCTC [ 1631 ]
Ami TGGTGTCAA-GGAAGCGAACAACAAATCCCAGTC-TCCTCACAGCCCCAGG--GGTCCTC [ 1791 ]
Asi TGGTGTCAA-GGAAGCGAACAACAAATCCCAGTC-TCCTCACAGCCCCAGG--GGTCCTC [ 1708 ]
Tgu -----GGTCCTC [ 1389 ]
Cli CAATGTCAACGGGAGCGAACAACAAATCCCAGTC-TCCTCCTGCCCGGG--GGTCCTC [ 1560 ]
Gga -----GGTCCTC [ 1476 ]
Xtr TATAAAAAGTTTGTGCACAAACAGCAAATCGTAGTC-TCCACTCTGCCCGAGG--GGTCCTC [ 1305 ]
Lch -----GGTCCTC [ 1554 ]
Dre AATGAACAA--AAACCAACAACAAACCGCAGTCGTCCTCTCAGCACGGGG--GGCACTT [ 1632 ]
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Hsa TGTGAGCATCTTACCGGACAGTGCTGGATTTCCAGCTTGACTCTAACACTGTCTGGTAA [1518]
Mmu TGTGGGCATCTTACCGGACAGTGCTGGATTTCTTGGCTTGACTCTAACACTGTCTGGTAA [1518]
Mdo TGTGGGCATCTTACTAGACAGTGCTGGATTTTT--GGATGTACTCTAACACTGTCTGGTAA [1297]
Meu TGTGGGCATCTTACTAGACAGTGCTGGATTTTT--GGATGCATTCTAACACTGTCTGGTAA [957]
Oan CGTGGGCATCTTACTAGACAGTGCTGGATTTG--GGATCTACTCTAACACTGTCTGGTAA [1444]
Aca TGTGGACATCTTACTAGACAGTGCTGGATTTGTGTGCTCTGATTCTAACACTGTCTGGTAA [1769]
Pbi TGTGGACATCTTACTAGACAGTGCTGGATTTTTGTCACTGTACTCTAACACTGTCTGGTAA [1767]
Cpi TGTGGACATCTTACTAGACAGTGCTGGATTTTTTTGGATCTACTCTAACACTGTCTGGTAA [1853]
Cmy TGTGGACATCTTACTAGACAGTGCTGGATTTTTTTGGATCTACTCTAACACTGTCTGGTAA [1853]
Psi TGTGGACATCTTACTAGACAGTGCTGGATTTTT--GGATCTACTCTAACACTGTCTGGTAA [1690]
Asp TGTGGACATCTTACTAGACAGTGCTGGATTTTT--GGATCTACTCTAACACTGTCTGGTAA [1690]
Ami TGTGGGCATCTTACTAGACAGTGCTGGATATTTTTGGATCTACTCTAACACTGTCTGGTAA [1851]
Asi TGTGGGCATCTTACTAGACAGTGCTGGATATTTTTGGATCTACTCTAACACTGTCTGGTAA [1768]
Tgu TGTGGGCATCTTACTAGACAGTGCTGGATTTGTGCCTCTACTCTAACACTGTCTGGTAA [1449]
Cli TGTGGGCATCTTACTAGACAGTGCTGGATTTTTTTGGATCTACTCTAACACTGTCTGGTAA [1620]
Gga TGTGGGCATCTTACTAGACAGTGCTGGATTTCTTGGATCTATTCTAACACTGTCTGGTAA [1536]
Xtr TATGGACATCTTACTAGACAGTGCTGGATTTATTTTTATCTTTTCTAACACTGTCTGGTAA [1365]
Lch TATGAGCATCTTACTAGACAGTGCTGGATTTACTAATCTTCTCTAACACTGTCTGGTAA [1614]
Dre AGCAGCCATCTTACCGGACAGTGCTGGACTGTATAACTGTTTTCTAACACTGTCTGGTAA [1692]

Hsa CGATGTTCAAAG-G-TGAC--GGGCAGCCGTGGCCATCTTACTGGGCAGCATTGGATGGA [1574]
Mmu CGATGTTCAAAG-G-TGAC--GGGCAGCCGTGGCCATCTTACTGGGCAGCATTGGATAGT [1574]
Mdo CGATGTTTAAAGAG-GGAA--GGGCTGCCATTACCATCTTACTGGGCAGCATTGGATGGT [1354]
Meu CGATGTTTAAAGAG-GGAA--GGGCTGCCATTACCATCTTACTGGGCAGCATTGGATGGT [1014]
Oan CGATGTTCAAAGGAA-GGAC--GGGCCGCCACTACCATCTTACTGGGCAGCATTGGATGAG [1501]
Aca CGATGTTCAAAGGG-TGAG--GGGAGGTCATTGCCATCTTACTGGGCAGCATTGGATGTT [1826]
Pbi CGATGTTTAAAGAG-CGAG--GAGAAACCATTCTCATCTTACTGGGCAGCGTTGGACGTT [1824]
Cpi CGATGTTTAAAGGG-TGAA--GGGATGCCATTACCATCTTACTGGGCAGCATTGGATGTT [1910]
Cmy CGATGTTTAAAGGG-TGAA--GGGATGCCATTACCATCTTACTGGGCAGCATTGGATGTT [1910]
Psi CGATGTTTAAAGAG-GAAC--GGGATGCCATTACCATCTTACTGGGCAGCATTGGATGTT [1747]
Asp CGATGTTTAAAGAG-GAAC--GGGATGCCATTACCATCTTACTGGGCAGCATTGGATGTT [1747]
Ami CGATGTTTAAAGGG-TGAA--GGGATGCCGTTACCATCTTACTGGGCAGCATTGGATGTT [1908]
Asi CGATGTTTAAAGGG-TGAA--GGGATGCCGTTACCATCTTACTGGGCAGCATTGGATGTT [1825]
Tgu CGATGTTTAAAGGG-TGAT--GAGATGTCCTCAGCATCTTACTGGGCAGCATTGGATGAT [1506]
Cli CGATGTTTAAAGGG-TGAA--GAGATGCCATTACCATCTTACTGGGCAGCATTGGATGTT [1677]
Gga CGATGTTTAAAGGG-TGAA--GAGATGCCATTACCATCTTACTGGGCAGCATTGGATGTT [1593]
Xtr CGATGTTTAAAGAG-TGAG--GTGGCGCTATTGCCATCTTACTGGGCAGCATTGGATTTT [1422]
Lch CGATGTTTAAAGGGGTGAA--GGGATGTTATTGCCATCTTACTGGGCAGCATTGGATGTA [1672]
Dre CGATGTTTGTGGG-TGAC--TGGTAGTCGCTCCATCTTACGAGGCAGCATTGGATTTTC [1749]

Hsa GTCAG-GTCTCTAATACTGCCTGGTAATGATGACGGCGGAGCCC--CCGCCGATGGGCG [1631]
Mmu GTCTG-ATCTCTAATACTGCCTGGTAATGATGACGGCGGAGCCC--CCTGCTGATGGATG [1631]
Mdo GTCTGTGTTTCTAATACTGCCTGGTAATGATGATGATGGGGTCC--CCTGCTGATTGGTG [1412]
Meu GTCTGTGTTTCTAATACTGCCTGGTAATGATGATGATGGGGTCC--CCTGATGATTGGTG [1072]
Oan TTCTGTGTTTCTAATACTGCCTGGTAATGATGATGGCCGCGGCC--CCTGCTGATTGGTG [1559]
Aca TTCTGTCTTTCTAATACTGCCTGGTAATGATGATTGTGGCCTTC--CCTGCTGATCGCTG [1884]
Pbi TTATGAGTTTCTAATACTGCCTGGTAAAGATGTTAATGGCGTCT--CCTGCCGATCGCTG [1882]
Cpi TTCTGTGTTTCTAATACTGCCTGGTAATGATGATTATGGTGTCT--CCTGCTGATTGATG [1968]
Cmy TTCTGTGTTTCTAATACTGCCTGGTAATGATGATTATGGTGTCT--CCTGCTGATTGATG [1968]
Psi TTCTGTGTTTCTAATACTGCCTGGTAATGATGATTATGGTGTCT--CCTGCTGATTGATG [1805]
Asp TTCTGTGTTTCTAATACTGCCTGGTAATGATGATTATGGTGTCT--CCTGCTGATTGATG [1805]
Ami TTCTGTGTTTCTAATACTGCCTGGTAATGATGATTATGGTGTCT--CCTGCTGATTGACG [1966]
Asi TTCTGTGTTTCTAATACTGCCTGGTAATGATGATTATGGTGTCT--CCTGCTGATTGACG [1883]
Tgu CCATGCCGCTCTAATACTGCCTGGTAATGATGATGAAGGCTCTT----- [1550]
Cli TTCTGTCTTTCTAATACTGCCTGGTAATGATGATTATGGTGTTT--CCTGCTGATTGCTG [1735]
Gga CTCTGTTTTTCTAATACTGCCTGGTAATGATGATTGTGGTGTTT--CCTGCTGATTGCTG [1651]
Xtr GTCTATGTTTCTAATACTGCCTGGTAATGATGATTATGGCGCCC--CCTGTTGACCAATG [1480]

Lch CTCTGATTTTCTAATACTGCCTGGTAATGATGATGATGGTATCC--CCTGTTGACTGACG [1730]
Dre ATTACTTTTTCTAATACTGCCTGGTAATGATGATGATTGCTGCC--CTTGTGATGGACG [1807]

Hsa TCTTACCAGACATGGTTAGACCT----GGCCCTCTGTCTAATACTGTCTGGTAAAACCGT [1687]
Mmu TCTTACCAGACATGGTTAGATCT--GGATGCATCTGTCTAATACTGTCTGGTAATGCCGT [1689]
Mdo TCTTACCAGACAAAGTTAGATCT--CGCTATTTCTGTCTAATACTGTCTGGTAATGCCAT [1470]
Meu TCTTACCAGACAAAGTTAGATCT--CGCTATTTCCGTCTAATACTGTCTGGTAATGCCAT [1130]
Oan TCTTACCAGACAAAGTTAGATCT--GACTATTTTCGTCTAATACTGTCTGGTAATGCCGT [1617]
Aca TCTTACCAGACAAAGTTAGATCTT-AGCTATCCCCGTCTAATACTGTCTGGTAATGCCGT [1943]
Pbi TCTTACCAGACAAATTTAGATCTTAATCTATTTCCTGTCTAATACTGTCTGGTAATGCCGT [1942]
Cpi TCTTACCAGACAAAGTTAGATCT--AGCTATTTTCGTCTAATACTGTCTGGTAATGCCGT [2026]
Cmy TCTTACCAGACAAAGTTAGATCT--AGCTATTTT-CGTCTAATACTGTCTGGTAATGCCGT [2025]
Psi TCTTACCAGACAAAGTTAGATCT--AGCTATTTTCGTCTAATACTGTCTGGTAATGCCGT [1863]
Asp TCTTACCAGACAAAGTTAGATCT--AGCTATTTTCGTCTAATACTGTCTGGTAATGCCGT [1863]
Ami TCTTACCAGACAAAGTTAGATCT--AGCTATTTTCGTCTAATACTGTCTGGTAATGCCGT [2024]
Asi TCTTACCAGACAAAGTTAGATCT--AGCTATTTTCGTCTAATACTGTCTGGTAATGCCGT [1941]
Tgu ----- [1550]
Cli TCTTACCAGGCAAAGTTAGATCT--AGCTATTTTTGTCTAATACTGTCTGGTAATGCCGT [1793]
Gga TCTTACCAGGCAAAGTTAGATCT--AGCTATTTCTGTCTAATACTGTCTGGTAATGCCGT [1709]
Xtr TCTTACCAGACAAGGTTAGATCT--AGTTACTCTCGTCTAATACTGTCTGGTAATGCCGT [1538]
Lch TCTTACCAGACAAGGTTAGATCT--AGCTATTTCTGTCTAATACTGTCTGGTAATGCCGT [1788]
Dre TCTTACCAGACATGGTTAGATGT--AATAACTTGTGTCTAATACTGTCTGGTAATGCCGT [1865]

Hsa CCATCCGCTGC--TGGGCGGGGGCCCTCGTCTTACCCAGCAGTGT'TTGGGTGC--GGT'TGG [1744]
Mmu CCATCCACGGC--TGGGTAGGGGGCCCTCGTCTTACCCAGCAGTGT'TTGGGTGCTGGT'TGG [1747]
Mdo TGGT-CACACT--CGGGACTGGCGCCCCATCTTACCCAGCAGTGT'TTGGGTGCCGCTCGG [1527]
Meu TGGT-CACACT--TGGGACTGGTGCCCCGTCTTACCCAGTAGTGT'TTGGGTGCTGGT'TGG [1187]
Oan CAAT-CACAGC----- [1627]
Aca CGAT-CGCATT----- [1953]
Pbi CGATTTCGCATT----- [1953]
Cpi CCAT-CGCATT----- [2036]
Cmy CCAT-CGCATT----- [2035]
Psi CTAT-CGCATT----- [1873]
Asp CTAT-CGCATT----- [1873]
Ami TGAT-CGCACT----- [2034]
Asi TGAT-CGCACT----- [1951]
Tgu ----- [1550]
Cli CAAT-CGCATC----- [1803]
Gga CAAT-CGCATG----- [1719]
Xtr TGGT-CACATT----- [1548]
Lch TGAT-TACATG--GGGAAAGTGGCCACCATCTTACCGAGCAGCATTTGA-TGT-GAGTCT [1843]
Dre CCAT-CACATG--TGGATGCCTGGCTCCATCTTACAAGGCAGT-TTTGGATGTTATATCT [1921]

Hsa GAGTCTCTAATACTGCCGGGTAATGATGGAGGCCCCCTGTCC--GGCCCTGGGTCCATCTTT [1802]
Mmu GAGTCTCTAATACTGCCGGGTAATGATGGAGGCCCCCTGTCC--GGCTCTGGGTCCATCTTT [1805]
Mdo GAGTCTCTAATACTGCCGGGTAATGATGGAGGTCCCTT-TCC--AGCTCTGGGGCCATCTTT [1584]
Meu GAGTCTCTAATACTGCCGGGTAACGATGGAGGTCCCTT-TCC----- [1227]
Oan ----- [1627]
Aca ----- [1953]
Pbi ----- [1953]
Cpi ----- [2036]
Cmy ----- [2035]
Psi ----- [1873]
Asp ----- [1873]
Ami ----- [2034]
Asi ----- [1951]
Tgu ----- [1550]

Cli	-----	[1803]
Gga	-----	[1719]
Xtr	-----	[1548]
Lch	CAGTGTCTAATACTGCCTGGTAATGATGGAG-CCATTTTCC-----	[1883]
Dre	---TCTCTAATACTGCCTGGTAATGATGCAGATGGTCATCT--TCTCTAGGGTACATCTT	[1976]
Hsa	CCAGTACAGTG--TTGGATGGTCTAATTGTGAAGCTCCTAACACTGTCTGGTAAAGATGGC	[1861]
Mmu	CCAGTGCAGTG--TTGGATGGTTGAAGTATGAAGCTCCTAACACTGTCTGGTAAAGATGGC	[1864]
Mdo	CCAGTACAGTG-GTGGATGGT-----GAAGCTTCTAACACTGTCTGGTAAAGATGCC	[1635]
Meu	-----	[1227]
Oan	-----	[1627]
Aca	-----	[1953]
Pbi	-----	[1953]
Cpi	-----	[2036]
Cmy	-----	[2035]
Psi	-----	[1873]
Asp	-----	[1873]
Ami	-----	[2034]
Asi	-----	[1951]
Tgu	-----	[1550]
Cli	-----	[1803]
Gga	-----	[1719]
Xtr	-----	[1548]
Lch	-----	[1883]
Dre	ACCTGACAGTGCTTGGCTGTTC-----ACTGATGTTCTAACACTGTCTGGTAAACGATG-C	[2030]
Hsa	TCCCGGGTGGG--CGGGGTTGGTTGTTATCTTTGGTTATCTAGCTGTATGAGTGGTGTGG	[1919]
Mmu	CCCCGGGTCAG--CGGGGTTGGTTGTTATCTTTGGTTATCTAGCTGTATGAGTGGTGTGG	[1922]
Mdo	CTCCGGGTTGG--CGGGGTTGGTTGTTATCTTTGGTTATCTAGCTGTATGAGTGGTGTCTG	[1693]
Meu	-----CGGGGTTGGTTGTTATCTTTGGTTATCTAGCTGTATGAGTGGTGTCTG	[1274]
Oan	-----	[1627]
Aca	-----	[1953]
Pbi	-----AGGGGTTGGTTGTTATCTTTGGTTATCTAGCTGTATGAGTGGGGTCA	[2000]
Cpi	-----AGGGGTTGGTTGTTATCTTTGGTTATCTAGCTGTATGAGTGGTGTCA	[2083]
Cmy	-----AGGGGTTGGTTGTTATCTTTGGTTATCTAGCTGTATGAGTGGTGTCA	[2082]
Psi	-----AGGGGTTGGTTGTTATCTTTGGTTATCTAGCTGTATGAGTGGTGTCA	[1920]
Asp	-----AGGGGTTGGTTGTTATCTTTGGTTATCTAGCTGTATGAGTGGTGTCA	[1920]
Ami	-----AGGGGTTGGTTGTTATCTTTGGTTATCTAGCTGTATGAGTGGTGTCA	[2081]
Asi	-----AGGGGTTGGTTGTTATCTTTGGTTATCTAGCTGTATGAGTGGTGTCA	[1998]
Tgu	-----	[1550]
Cli	-----AGGGGTTGGTTGTTATCTTTGGTTATCTAGCTGTATGAGTGGTGTCTG	[1850]
Gga	-----AGGGGTTGGTTGTTATCTTTGGTTATCTAGCTGTATGAGTGGTGTCTG	[1766]
Xtr	-----AGGGGTTGGTTGTTATCTTTGGTTATCTAGCTGTATGAGTGGTGTCTG	[1595]
Lch	-----AGGGGTTGGTTGTTATCTTTGGTTATCTAGCTGTATGAGTGGTGTCTG	[1930]
Dre	ACTCTGGTGAC--AGGGGTTGGCTGTATCTTTGGTTATCTAGCTGTATGAGTGGTATTC	[2088]
Hsa	AGTCTTCATAAAGCTAGATAAACC GAAAGTAAAAATAACCCCA--GAAGCGAGTTGTTATC	[1977]
Mmu	AGTCTTCATAAAGCTAGATAAACC GAAAGTAAAAATAACCCCA--GAAGCGAGTTGTTATC	[1980]
Mdo	AGTCTTCATAAAGCTAGATAAACC GAAAGTAAAAATAACCCCA--GAAGTGAAGTTGTTATC	[1751]
Meu	AGTCTTCATAAAGCTAGATAAACC GAAAGTAAAAATAACCCCA--GAAGTGAAGTTGTTATC	[1332]
Oan	-----GAAGCGAGTTGTTATC	[1643]
Aca	-----GAAGCGAGTTGTTGTC	[1969]
Pbi	AGTCTTCATAAAGCTAGATAAACC GAAAGTAAAAATAACCCCA--GAAGCGAGTTGTTATC	[2058]
Cpi	ATTCTTCATAAAGCTAGATAAACC GAAAGTAAAAATAACCCCA--GAAGCGAGTTGTTATC	[2141]
Cmy	ATTCTTCATAAAGCTAGATAAACC GAAAGTAAAAATAACCCCA--GAAGCGAGTTGTTATC	[2140]
Psi	ATTCTTCATAAAGCTAGATAAACC GAAAGTAAAAATAACCCCA--GAAGCGAGTTGTTATC	[1978]
Asp	ATTCTTCATAAAGCTAGATAAACC GAAAGTAAAAATAACCCCA--GAAGCGAGTTGTTATC	[1978]

Ami ATTCTTCATAAAGCTAGATAAACCAGAAAGTAAAAATAACCCCA--GAAGCGAGTTGTTATC [2139]
Asi ATTCTTCATAAAGCTAGATAAACCAGAAAGTAAAAATAACCCCA--GAAGCGAGTTGTTATC [2056]
Tgu -----GAAGCGAGTTGTTATC [1566]
Cli ATTCTTCATAAAGCTAGATAAACCAGAAAGTAAAAATAACCCCA--GAAGTGAGTTGTTATC [1908]
Gga ATTCTTCATAAAGCTAGATAAACCAGAAAGTAAAAATAACCCCA--GAAGCGAGTTGTTATC [1824]
Xtr ATCCTTCATAAAGCTAGATAAACCAGAAAGTAAAAATAACCCCA--GAAGTG-GTTGTTATC [1652]
Lch ATTCTTCATAAAGCTAGATAAACCAGAAAGTAAAAATAACCCCA--GAAGTGAGTTGTTATC [1988]
Dre ATTCTTCATAAAGCTAGATAAACCAGAAAGTAAACAAGAATCCCA--GAGGCGTGTTGTTATC [2146]

Hsa TTTGGTTATCTAGCTGTATGAGTGTATTGGTCTTCATAAAGCTAGATAAACCAGAAAGTAAA [2037]
Mmu TTTGGTTATCTAGCTGTATGAGTGTATTGGTCTTCATAAAGCTAGATAAACCAGAAAGTAAA [2040]
Mdo TTTGGTTATCTAGCTGTATGAGTGTATTGGTCTTCATAAAGCTAGATAAACCAGAAAGTAAA [1811]
Meu TTTGGTTATCTAGCTGTATGAGTGTATTGGTCTTCATAAAGCTAGATAAACCAGAAAGTAAA [1392]
Oan TTTGGTTATCTAGCTGTATGAGTGTATTGGTCTTCATAAAGCTAGATAAACCAGAAAGTAAAG [1703]
Aca TTTGGTTATCTAGCTGTATGAGTGTGTTGGTCTTCATAAAGCTAGATAAACCAGAAAGTAAA [2029]
Pbi TTTGGTTATCTAGCTGTATGAGTGTGTTGGCCTTCATAAAGCTAGATAAACCAGAAAGTAAA [2118]
Cpi TTTGGTTATCTAGCTGTATGAGTGTGTTGGTCTTCATAAAGCTAGATAAACCAGAAAGTAAA [2201]
Cmy TTTGGTTATCTAGCTGTATGAGTGTGTTGGTCTTCATAAAGCTAGATAAACCAGAAAGTAAA [2200]
Psi TTTGGTTATCTAGCTGTATGAGTGTGTTGGTCTTCATAAAGCTAGATAAACCAGAAAGTAAA [2038]
Asp TTTGGTTATCTAGCTGTATGAGTGTGTTGGTCTTCATAAAGCTAGATAAACCAGAAAGTAAA [2038]
Ami TTTGGTTATCTAGCTGTATGAGTGTGTTGGTCTTCATAAAGCTAGATAAACCAGAAAGTAAA [2199]
Asi TTTGGTTATCTAGCTGTATGAGTGTGTTGGTCTTCATAAAGCTAGATAAACCAGAAAGTAAA [2116]
Tgu TTTGGTTATCTAGCTGTATGAGTGTGTTGGTCTTCATAAAGCTAGATAAACCAGAAAGTAAA [1626]
Cli TTTGGTTATCTAGCTGTATGAGTGTGTTGGTCTTCATAAAGCTAGATAAACCAGAAAGTAAA [1968]
Gga TTTGGTTATCTAGCTGTATGAGTGTGTTGGTCTTCATAAAGCTAGATAAACCAGAAAGTAAA [1884]
Xtr TTTGGTTATCTAGCTGTATGAGTGTATTGGTCTTCATAAAGCTAGATAAACCAGAAAGTAAA [1712]
Lch TTTGGTTATCTAGCTGTATGAGTGTGTTGGTCTTCATAAAGCTAGATAAACCAGAAAGTAAA [2048]
Dre TTTGGTTATCTAGCTGTATGAGTGTGCTGGCCGTCATAAAGCTAGATAAACCAGAAAGTAAAG [2206]

Hsa AACTCCTTC--AGGCCGTTTCTCTCTTTGGTTATCTAGCTGTATGAGTGCCACAGAGCC [2095]
Mmu AACTCCTTC--AGGCCGTTTCTCTCTTTGGTTATCTAGCTGTATGAGTGCCACAGAGCC [2098]
Mdo AACTCCTTC--AGGCCGTTTCTCTCTTTGGTTATCTAGCTGTATGAGTGTTATTGAGCT [1869]
Meu AACTCCTTC----- [1401]
Oan AACTCCTTC----- [1712]
Aca AACTCCTTC--AGGCCGTTTCTGTCTTTGGTTATCTAGCTGTATGAGTGTAATCGACCC [2087]
Pbi AACTCCTTC--AGGCCGTTTCTGTCTTTGGTTATCTAGCTGTATGAGTGTTATCAAGCC [2176]
Cpi AACTCCTTC--AGGGCTGTTTCTGTCTTTGGTTATCTAGCTGTATGAGTGTTATTAAGCC [2259]
Cmy AACTCCTTC--AGGGCTGTTTCTGTCTTTGGTTATCTAGCTGTATGAGTGTTATTAAGCC [2258]
Psi AACTCCTTC--AGGGCTGTTTCTGTCTTTGGTTATCTAGCTGTATGAGTGTTATTAAGCC [2096]
Asp AACTCCTTC--AGGGCTGTTTCTGTCTTTGGTTATCTAGCTGTATGAGTGTTATTAAGCC [2096]
Ami AACTCCTTC--AGGGCTGTTTCTGTCTTTGGTTATCTAGCTGTATGAGTGTTCTCGAGCC [2257]
Asi AACTCCTTC--AGGGCTGTTTCTGTCTTTGGTTATCTAGCTGTATGAGTGTTCTCGAGCC [2174]
Tgu AACTCCTTC--AGGGATGTTTCTGTCTTTGGTTATCTAGCTGTATGAGTGTTGTGGAGCC [1684]
Cli AACTCCTTC--AGGGATGTTTCTGTCTTTGGTTATCTAGCTGTATGAGTGTTGTGGAGCC [2026]
Gga AACTCCTTC--AGGGATGTTTCTGTCTTTGGTTATCTAGCTGTATGAGTGTTGTGGAGCC [1942]
Xtr AACTCCTTC--GAGTGTGTTTCTATCTTTGGTTATCTAGCTGTATGAGTGTAATAAGCC [1770]
Lch AACTGCTTC--GAGTCCGTTTCTGTCTTTGGTTATCTAGCTGTATGAGTGTTATTAAGCC [2106]
Dre AGCCGCTTC--GAGGTAGTTGCTATCTTTGGTTATCTAGCTGTATGAGTGTTATCTGCC [2264]

Hsa GTCATAAAGCTAGATAAACCAGAAAGTAGAAATGATTC----- [2132]
Mmu GTCATAAAGCTAGATAAACCAGAAAGTAGAAATGACTCT----- [2135]
Mdo ATCATAAAGCTAGATAAACCAGAAAGTAGAAATGACTTT--CTGAGCTGG--TTTTGATCTTT [1926]
Meu -----CTGAGCTGGGTTTTGATCTTT [1422]
Oan -----CTGAGCTGG--CTTTGGTCTTT [1732]
Aca ATCATAAAGCTAGATAAACCAGAAAGTAGAAATGACTCC--CAGGGCCGG--CTCTTCTCTTT [2144]
Pbi ATCATAAAGCTAGATAAACCAGAAAGTAGAAATGACTTC--CAGGGTCGG--TTTCTCTCTTT [2233]
Cpi ATCATAAAGCTAGATAAACCAGAAAGTAGAAATGACTTC--CTGGGTGG--TTTTTGTCTTT [2316]

Cmy ATCATAAAGCTAGATAACCGAAAGTAGAAATGACTTC--CTGGGTGG--TTTTTGTCTTT [2315]
Psi ATCATAAAGCTAGATAACCGAAAGTAGAAATGACTTC--CTGGGTGG--TTTTTGTCTTT [2153]
Asp ATCATAAAGCTAGATAACCGAAAGTAGAAATGACTTC--CTGGGTGG--TTTTTGTCTTT [2153]
Ami GTCATAAAGCTAGATAACCGAAAGTAGAAATGACTTC--CTGGGTGGG--TTTTTGTCTTT [2314]
Asi GTCATAAAGCTAGATAACCGAAAGTAGAAATGACTTC--CTGGGTGGG--TTTTTGTCTTT [2231]
Tgu ATCATAAAGCTAGATAACCGAAAGTAGAAATGACTTC----- [1721]
Cli ATCATAAAGCTAGATAACCGAAAGTAGAAATGACTTC--CTGGGTGG--TTTTTGTCTTT [2083]
Gga ATCATAAAGCTAGATAACCGAAAGTAGAAATGACTTC--TTGGGTGG--TTTTTGTCTTT [1999]
Xtr GTCATAAAGCTAGATAACCGAAAGTAGGAATCACTTC--TTGAATTGG--TTTCTGTCTTT [1827]
Lch ATCATAAAGCTAGATAACCGAAAGTAGAAATGACTTC--ATAGGTTAG--TTTTTTTCTTT [2163]
Dre TTCATAAAGCTAGATAACCGAAAGTAGAAATGTCTC--ATGGGTTAG--TTTTTGTCTTT [2321]

Hsa ----- [2132]
Mmu ----- [2135]
Mdo GGTTTCCTAGCTGTGTGAGTGTCTCTGA-ATCATAAAGCTGGAGAACCGAATGTGGAAAC [1985]
Meu GGTTTCCTAGCTGTGTGAGTATTTCTGA-ATCATAAAGCTGGAGAACCGAATGTGGAAAC [1481]
Oan GGTTATCTAGCTGTATGAGTGTATGTGATGTCATAAAGCTAGAGAACCGAATGTAAAAAC [1792]
Aca GGTTATCTAGCTGTATGAGTGCCTGGTTTCATAAAGCTAGAGAACCGAACGTACGAAC [2204]
Pbi GGTTATCTAGCTGTATGAGTGTATCTGATGTCATAAAGCTAGAGAACCGAATGTACAAAC [2293]
Cpi GGTTATCTAGCTGTATGAGTGTATGTGATATCATAAAGCTAGAGAACCGAATGTAAAAAC [2376]
Cmy GGTTATCTAGCTGTATGAGTGTATGTGATATCATAAAGCTAGAGAACCGAATGTAAAAAC [2375]
Psi GGTTATCTAGCTGTATGAGTGTATGTGATATCATAAAGCTAGAGAACCGAATGTAAAAAC [2213]
Asp GGTTATCTAGCTGTATGAGTGTATGTGATATCATAAAGCTAGAGAACCGAATGTAAAAAC [2213]
Ami GGTTATCTAGCTGTATGAGTGTATGTGATATCATAAAGCTAGACAACCGAATGTAAAAAC [2374]
Asi GGTTATCTAGCTGTATGAGTGTATGTGATATCATAAAGCTAGACAACCGAATGTAAAAAC [2291]
Tgu ----- [1721]
Cli GGTTATCTAGCTGTATGAGTGTATGTGATATCATAAAGCTAGAGAACCGAATGTAAAAAC [2143]
Gga GGTTATCTAGCTGTATGAGTGTATGTGATATCATAAAGCTAGAGAACCGAATGTAAAAAC [2059]
Xtr GGTTACCTAGCTGTATGAGTATAACTAATGTCATAAAGCTAGACAACCGAACGTATAAAC [1887]
Lch GGTTATCTAGCTGTATGAGTGTATCTGATATCATAAAGCTAGAGAACCGAATGTAAAAAC [2223]
Dre GGTTATCTAGCTGTATGAGTTTATGTGATATCATAAAGCTAGAGAACCGAATGTATAAAC [2381]

Hsa -----CTTCTGTATATACCCTGTAGATCCGAATTTGTGTAAGGAATTTTGTGGTCA [2183]
Mmu -----CTTCTGTATATACCCTGTAGATCCGAATTTGTGTAAGGAATTTTGTGGTCA [2186]
Mdo CAGCTGC--CTTCTGTATATACCCTGTAGATCCGAATTTGTGTAAGGAATTTTGTGGTCA [2043]
Meu CAGCTGC--CTTCTGTATATACCCTGTAGATCCGAATTTGTGTAAGGAATTTTGTGGTCA [1539]
Oan CAGCTTC--CTTCTGTATATACCCTGTAGATCCGAATTTGTGTAAGGAGTTTCGTGGTCA [1850]
Aca CGGCCCG--CTTCTGTATGTACCCTGTAGATCCGAATTTGTGTAAGGAAGAACTGCG-TCA [2261]
Pbi CGCCCCG--CTTCTGTATGTACCCTGTAGATCCGAATTTGTGTAAGGAAGAACTGCC-TCA [2350]
Cpi TGATTCA--CTTCTATATGTACCCTGTAGATCCGAATTTGTGTAAGGAAGTTGTG-TCA [2433]
Cmy TGATTCA--CTTCTATATGTACCCTGTAGATCCGAATTTGTGTAAGGAAGTTGTG-TCA [2432]
Psi TGATTCA--CTTCTATATGTACCCTGTAGATCCGAATTTGTGTAAGGAAGTTGTG-TCA [2270]
Asp TGATTCA--CTTCTATATGTACCCTGTAGATCCGAATTTGTGTAAGGAAGTTGTG-TCA [2270]
Ami CGGCTCG--CTTCTATATGTACCCTGTAGATCCGAATTTGTGTAAGGAAGTTGCG-TCA [2431]
Asi CGGCTCG--CTTCTATATGTACCCTGTAGATCCGAATTTGTGTAAGGAAGTTGCG-TCA [2348]
Tgu ----- [1721]
Cli CCGCTCG--CTTCTATATGTACCCTGTAGATCCGAATTTGTGTAAGGAAGTTGGG-TCA [2200]
Gga CCGCTCG--CTTCTATATGTACCCTGTAGATCCGAATTTGTGTAAGGAAGTTGGG-TCA [2116]
Xtr CAGTTCC--CCTCTGTATGTACCCTGTAGATCCGAATTTGTGTGAGCGCAATCATA-TCA [1944]
Lch TAATTCT--CTTCTATATATACCCTGTAGATCCGAATTTGTGTGAACAGATTTGTGGTCA [2281]
Dre TAATTCC--CATCTATATATACCCTGTAGATCCGAATTTGTGTGAATA----TACAGTGC [2435]

Hsa CAAATTCGTATCTAGGGGAATATGTAGTTG--GTTGTCTATATATACCCTGTAGAACCGA [2241]
Mmu CAAATTCGTATCTAGGGGAATATGTAGTTG--GTTGTCTATATATACCCTGTAGAACCGA [2244]
Mdo CAAATTCGTATCTAGGGGAATATGTAGTTG--GTTGTCTATATATACCCTGTAGAACCGA [2101]
Meu CAAATTCGTATCTAGGGGAATATGTAGTTG--GTTGTCTATATATACCCTGTAGAACCGA [1597]
Oan CAAATTCGTATCTAGGGGAATATGTAGTTG--GTTGTCTATATATACCCTGTAGAACCGA [1908]

Aca CAAATTCGCGTCTAGGGGAATATGTAGTAG--GTTGTCTATATATACCCTGTAGAACCGA [2319]
Pbi CAAATTCGCATCTAGGGGAATATGTAGTTG--GTTGTCTATATATACCCTGTAGAACCGA [2408]
Cpi CAAATTCGTATCTAGGGGAATATGTAGTTG--GTTGTCTATATATACCCTGTAGAACCGA [2491]
Cmy CAAATTCGTATCTAGGGGAATATGTAGTTG--GTTGTCTATATATACCCTGTAGAACCGA [2490]
Psi CAAATTCGTATCTAGGGGAATATGTAGTTG--GTTGTCTATATATACCCTGTAGAACCGA [2328]
Asp CAAATTCGTATCTAGGGGAATATGTAGTTG--GTTGTCTATATATACCCTGTAGAACCGA [2328]
Ami CAAATTCGTATCTAGGGGAATATGTAGTTG--GTTGTCTATATATACCCTGTAGAACCGA [2489]
Asi CAAATTCGTATCTAGGGGAATATGTAGTTG--GTTGTCTATATATACCCTGTAGAACCGA [2406]
Tgu -----GTTGTCTATATATACCCTGTAGAACCGA [1749]
Cli CAAATTCGTATCTAGGGGAATATGTAGTTG--GTTGTCTATATATACCCTGTAGAACCGA [2258]
Gga CAAATTCGTATCTAGGGGAATATGTAGTTG--GTTGTCTATATATACCCTGTAGAACCGA [2174]
Xtr CAAATTCGTGTCTAGGGGGATATGCAGTTG--GTTGTCTATATGTACCCTGTAGAACCGA [2002]
Lch CAAATTCGTGTCTAGGGGAGTATGTAGTTG--GTCGTCTATATATACCCTGTAGAACCGA [2339]
Dre CAAATTCGTGTCTAGGGGAATATGTAGTTG--GTCGTCTATATATACCCTGTAGAACCGA [2493]

Hsa ATTTGTGTGGTATCCGTATAGTCACAGATTTCGATTCTAGGGGAATATATGGTCGATG--- [2298]
Mmu ATTTGTGTGGTACCCACATAGTCACAGATTTCGATTCTAGGGGAATATATGGTCGATG--- [2301]
Mdo ATTTGTGTGGTATTTACATAGTCACAGATTTCGATTCTAGGGGAATATATGGTCGATG--- [2158]
Meu ATTTGTGTGGTATTCACATAGTCACAGATTTCGATTCTAGGGGAATATATGGTCGATG--- [1654]
Oan ATTTGTGTGGTATTCACATAGTCACAGATTTCGATTCTAGGGGAATATATGGTCGATG--- [1965]
Aca ATTTGTGTGGTATTTACACAGTCACAGATTTCGATTCTAGGGGAATATATGGTCGATG--G [2377]
Pbi ATTTGTGTGGTATTTACGTAGTCACAGATTTCGATTCTAGGGGAATATATGGTCGATG--A [2466]
Cpi ATTTGTGTGGTATTCACATAGTCACAGATTTCGATTCTAGGGGAATATATGGTCGATG--G [2549]
Cmy ATTTGTGTGGTATTCACATAGTCACAGATTTCGATTCTAGGGGAATATATGGTCGATG--G [2548]
Psi ATTTGTGTGGTATTCACATAGTCACAGATTTCGATTCTAGGGGAATATATGGTCGATG--G [2386]
Asp ATTTGTGTGGTATTCACATAGTCACAGATTTCGATTCTAGGGGAATATATGGTCGATG--G [2386]
Ami ATTTGTGTGGTATTCACATAGTCACAGATTTCGATTCTAGGGGAATATATGGTCGATG--G [2547]
Asi ATTTGTGTGGTATTCACATAGTCACAGATTTCGATTCTAGGGGAATATATGGTCGATG--G [2464]
Tgu ATTTGTGTGATATTCATATAGTCACAGATTTCGATTCTAGGGGAATATATGGTCGATG--- [1806]
Cli ATTTGTGTGATATTCATATAGTCACAGATTTCGATTCTAGGGGAATATATGGTCGATG--G [2316]
Gga ATTTGTGTGATATTCATATAGTCACAGATTTCGATTCTAGGGGAATATATGGTCGATG--- [2231]
Xtr ATTTGTGTGGT--TCGTACAGTCACAGATTTCGATTCTAGGGGGATATATGGTCGATG--G [2058]
Lch ATTTGTGTGATGTTATCAGAATCAGATTTCGATTCTAGGGGAGTATATGGTCGATG--G [2397]
Dre ATTTGTGTGAAAAATAACATTTCACAGATTTCGATTCTAGGGGAGTATATGGTCGATG--G [2551]

Hsa ----- [2298]
Mmu ----- [2301]
Mdo ----- [2158]
Meu ----- [1654]
Oan ----- [1965]
Aca TCGTTTATATGTACCCTGTAGAATCGAATTTGTGTGAGCACCTCAA---TCACAAATTCG [2434]
Pbi TCGTTTATATATACCCTGTAGAACCGAATTTGTGTGAGCACCTCTA---TTGCAAATTCG [2523]
Cpi TCGTCTATATGTACCCTGTAGAATCGAATTTGTGTGAATATTTGAGAG--TCACAAATTCG [2608]
Cmy TCGTCTATATGTACCCTGTAGAATCGAATTTGTGTGAATATTTGAGAG--TCACAAATTCG [2607]
Psi TCGTCTATATGGACCCTGTAGAATCGAATTTGTGTGAATATCT--GAG--TCACAAATTCG [2443]
Asp TCGTCTATATGGACCCTGTAGAATCGAATTTGTGTGAATATCT--GAG--TCACAAATTCG [2443]
Ami TCGCCTATATGTACCCTGTAGAATCGAATTTGTGTGAACATTTTCAGAG--TCACAAATTCG [2606]
Asi TCGCCTATATGTACCCTGTAGAATCGAATTTGTGTGAACATTTTCAGAG--TCACAAATTCG [2523]
Tgu ----- [1806]
Cli TCTCCTATATGTACCCTGTAGACTCGAATTTGTGTGAGCGTCTCCAG--TCACAAATTCG [2375]
Gga ----- [2231]
Xtr GCGCTTATATGCACCCTGTAGAATCGAATTTGTGTGAG---TTCTGAA--CCACAGATTCG [2114]
Lch TCGTCTATATATACCCTGTAGAACCGAATTTGTGTGAGCTCTCGATAA--TCACAAATTCG [2456]
Dre TCGTCTATATGTACCCTGTAGAACCGAATTTGTGTCCAAAACATCAAAAATCGCAAATACG [2611]

Hsa -----CCTGTTGCCACAAACCCGTAGATCCGAACTTGTG [2332]
Mmu -----CCTGTTGCCACAAACCCGTAGATCCGAACTTGTG [2335]

Mdo -----CCTGTTGCCACAAACCCGTAGATCCGAACCTTGTG [2192]
Meu -----CCTGTTGCCACAAACCCGTAGATCCGAACCTTGTG [1688]
Oan -----CCTGTTGCCACAAACCCGTAGATCCGAACCTTGTG [1999]
Aca TCTCTAGGGGAGTATATGGACGAT--CTAGTTGCCACAAACCCGTAGATCCGAACCTTGTG [2492]
Pbi TCTCTAGGGGAGTATATGGACGAT--CCAGTTGCCACAAACCCGTAGATCCGAACCTTGTG [2581]
Cpi TCTCTAGGGGAGTATATGGACGAT--CCCCTGCCACAAACCCGTAGATCCGAACCTTGTG [2666]
Cmy TCTCTAGGGGAGTATATGGACGAT--CCCCTGCCACAAACCCGTAGATCCGAACCTTGTG [2665]
Psi TCTCTAGGGGAGTATATGGACGAT--CCCCTGCCACAAACCCGTAGATCCGAACCTTGTG [2501]
Asp TCTCTAGGGGAGTATATGGACGAT--CCCCTGCCACAAACCCGTAGATCCGAACCTTGTG [2501]
Ami TCTCTAGGGGAATATATGGACGAT--CCCCTGCCACAAACCCGTAGATCCGAACCTTGTG [2664]
Asi TCTCTAGGGGAATATATGGACGAT--CCCCTGCCACAAACCCGTAGATCCGAACCTTGTG [2581]
Tgu -----CCTGCTGCCACAAACCCGTAGATCCGAACCTTGTG [1840]
Cli TCTCTAGGGGAATATATGGGCGAT--CCTGTTGCCACAAACCCGTAGATCCGAACCTTGTG [2433]
Gga -----CCTGTTGCCACAAACCCGTAGATCCGAACCTTGTG [2265]
Xtr TCTCTAGGGGGGTATATGGGTGAT----- [2138]
Lch TCTCTAGGGGAGTATATGGTTCGAT--CCTGTTGCCACAAACCCGTAGATCCGAACCTTGTG [2514]
Dre TCTCTACAGGAATACATGGGCGAC--CCTGCTGACACAAACCCGTAGATCCGAACCTTGTG [2669]

Hsa GTATTAGTCCGCACAAGCTTGTATCTATAGGTATGTGTCTGTTAGG--CCCATTGGCATA [2390]
Mmu CTGATTCTGCACACAAGCTTGTGTCTATAGGTATGTGTCTGTTAGG--CCCATTGACATA [2393]
Mdo GTGATATTCCACACAAGCTTGTGTCTATAGGTATGTGTCTGTCAGG----- [2238]
Meu GTGATATTCCACACAAGCTTGTGTCTATAGGTATGTGTCTGTCAGG--CTAACTGGTACA [1746]
Oan GTGATATTCCACACAAGCTTGTGTCTATAGGTATGTGTCTGTGGGC--CCAGTTGGCATA [2057]
Aca CTTCTATGTTACACAAGCTTGTGTCTATAGGTATGTGTCTGCTTGG--CCAATTGGCATA [2550]
Pbi CTCCTATCTACACAAGCTTGTATCTATAGGTATGTGTCTGCTTGG--CCAATTGGCATA [2639]
Cpi GTCATATTCCACACAAGCTTGTATCTATAGGTATGTGTCTGCATGG--CCAATTGGCATA [2724]
Cmy GTCATATTCCACACAAGCTTGTATCTATAGGTATGTGTCTGCATGG--CCAATTGGCATA [2723]
Psi GTCATATTCCACACAAGCTTGTATCTATAGGTATGTGTCTGCATGG--CCAATTGGCATA [2559]
Asp GTCATATTCCACACAAGCTTGTATCTATAGGTATGTGTCTGCATGG--CCAATTGGCATA [2559]
Ami GTGATATTCCACACAAGCTTGTATCTATAGGTATGTGTCTTCATGG--CCAGTTGGCATA [2722]
Asi GTGATATTCCACACAAGCTTGTATCTATAGGTATGTGTCTTCATGG--CCAGTTGGCATA [2639]
Tgu CTCATATTCCACACAAGCTTGTATCTATAGGTCTGTGGCTGGCTGG--CCAATTGGCATA [1898]
Cli GTCATATTCCACACAAGCTTGTATCTATAGGTATGTGTCTGTCTGG--CCAATTGGCATA [2491]
Gga GTCATATTCCACACAAGCTTGTATCTATAGGTATGTGTCTGTCTGG--CCAATTGGCATA [2323]
Xtr -----CCTACTAACATA [2150]
Lch ATCAGATCCACACAAGCTCGTATCTATAGGTATGTGTCTACATGG--CCAATTGGCATA [2572]
Dre GTGACTGTCCACACAAGCTTGTATCTATAGGTATCTGTCTGTGTGG--CCACTTGTTCATT [2727]

Hsa AACCCGTAGATCCGATCTTGTGGTGAAGTGGACCGCACAAAGCTCGCTTCTATGGGTCTGT [2450]
Mmu AACCCGTAGATCCGATCTTGTGGTGAAGTGGACCGCGCAAGCTCGTTTCTATGGGTCTGT [2453]
Mdo ----- [2238]
Meu AACCCGTAGATCCGATCTTGTGGTGAAGTGAAGTGCACAAGCTCGCTTCTTGGGTCTGT [1806]
Oan AACCCGTAGATCCGATCTTGTGGTGAAGTGAAGTGCACAAGCTCGCTTCTTGGGTCTGT [2117]
Aca AACCCGTAGATCCGATCTTGTGGTGAAGTATAATGCACAAGCTCGCTTCTATGGGTCTGT [2610]
Pbi AACCCGTAGATCCGATCTTGTGGTGAAGTATAAGTGCACAAGCTCGTTTCTATGGGTCTGT [2699]
Cpi AACCCGTAGATCCGATCTTGTGGTAAAGTATAACTGCACAAGCTCGCTTCTATGGGTCTGT [2784]
Cmy AACCCGTAGATCCGATCTTGTGGTAAAGTATAACTGCACAAGCTCGCTTCTATGGGTCTGT [2783]
Psi AACCCGTAGATCCGATCTTGTGGTAAAGTACATTGCACAAGCTCGCTTCTATGGGTCTGT [2619]
Asp AACCCGTAGATCCGATCTTGTGGTAAAGTACATTGCACAAGCTCGCTTCTATGGGTCTGT [2619]
Ami AACCCGTAGATCCGATCTTGTGGTAAAATACACCACACAAGCTCGCTTCTATGGGTCTGT [2782]
Asi AACCCGTAGATCCGATCTTGTGGTAAAATACACCACACAAGCTCGCTTCTATGGGTCTGT [2699]
Tgu AACCCGTAGATCCGATCTTGTGTTGAAACGCACTGCACAAGCTCGCTTCTATGGGTCTGT [1958]
Cli AACCCGTAGATCCGATCTTGTGTTGAAACGCACTGCACAAGCTCGCTTCTATGGGTCTGT [2551]
Gga AACCCGTAGATCCGATCTTGTGTTGAAATGCACACTGCACAAGCTCGCTTCTATGGGTCTGT [2383]
Xtr AACCCGTAGATCCGATCTTGTGGTGAATTCCTTTGCTCAAGCTCGTTTCTATGGGTCTGT [2210]
Lch AACCCGTAGATCCGATCTTGTGATAAAA-TGTAAGTGCACAAGCTCGCTTCTATGGGTCTGT [2631]
Dre AACCCGTAGATCCGATCTTGTGATAAGTTTGATGGCACAAGCTCGATTCTATGGGTCTCT [2787]

Hsa GTCAGTGTG--GGTCCTGGCACCCACCCGTAGAACCGACCTTGCAGGGCCTTCGCCGCAC [2508]
Mmu GGCAGTGTG--GGTCCTGGCACCCACCCGTAGAACCGACCTTGCAGGGCCTTCGCCGCAC [2511]
Mdo ----- [2238]
Meu GTCAGTGTG--CAGCCTGGCACCCACCCGTAGATCCGACCTTGCAGGGCCTTCGCCGCAC [1864]
Oan GTCAGTGTG----- [2126]
Aca GTCCCTATG--CCAGTTGCCATAAAACCCGTAGATCCGAACCTTGCAGGTACAACCTGATTCAC [2668]
Pbi GTCAGTCTG--CCGGTTGCCATAAAACCCGTAGATCCGAACCTTGCAGGTACGACTGCCTCAC [2757]
Cpi GTCAGTCTG--CCGGTTGCCATAAAACCCGTAGATCCGAACCTTGCAGGTACGACTGCCTCAC [2842]
Cmy GTCATTCTG--CCGGTTGCCATAAAACCCGTAGATCCGAACCTTGCAGGTACGACTGCCTCAC [2841]
Psi GTCAGTCTG--CCGGTTGCCATAAAACCCGTAGATCCGAACCTTGCAGGTACGACTGCCTCAC [2677]
Asp GTCAGTCTG--CCGGTTGCCATAAAACCCGTAGATCCGAACCTTGCAGGTACGACTGCCTCAC [2677]
Ami GTCAGTGTG--CCGGTGCACATAAAACCCGTAGATCCGAACCTTGCAGGT-CG-CT-CCTCGT [2837]
Asi GTCAGTGTG--CCGGTGCACATAAAACCCGTAGATCCGAACCTTGCAGGT-CG-CT-CCTCGT [2754]
Tgu GTCAGTGTG----- [1967]
Cli GTCAGTATG----- [2560]
Gga GTCAGTATG----- [2392]
Xtr GTCATTATG--CTGGTTGCCATAAAACCCGTAGATCCGAACCTTGTGCTGTGCC--CCTCTC [2266]
Lch GCCAGTGTG--CCGGTTGCCACAAAACCCGTAGAGCCGAACCTTGTGGTGAAGC--TCGTTC [2687]
Dre GTCTCTGTG----- [2796]

Hsa ACAAGCTCGTGTCTGTGGGTCCGTGTGCGGGGCT--TGCCAGTCTCTAGGTCCCTGAGAC [2566]
Mmu ACAAGCTCGTGTCTGTGGGTCCGTGTGCGGGGCT--TGCCGGCCTCTGGGTCCCTGAGAC [2569]
Mdo ----- [2238]
Meu ACAAGCTCGAGTCTGTGGGTCTGTGTGCGGGATTG----- [1898]
Oan ----- [2126]
Aca ACAAGCTCGAGTCTGTGGGTATGTGTGCGACCTCG--GGGCATCTTCTCTGTCCCTGAGAC [2726]
Pbi ACAAGCTCGAGTCTGTGGGTATGTGTGCGACCTTG--TGCCATCTTCTCTGTCCCTGAGAC [2815]
Cpi ACAAGCTCGAGTCTGTGGGTATGTGTGCGATCCTG--GGCAGCCGTCTCTGTCCCTGAGAC [2900]
Cmy ACAAGCTCGAGTCTGTGGGTATGTGTGCGATCCTG--GGCAGCCGTCTCTGTCCCTGAGAC [2899]
Psi ACAAGCTCGAGTCTGTGGGTATGTGTGCGATCCTG--GGCAGCCGGCTCTGTCCCTGAGAC [2735]
Asp ACAAGCTCGAGTCTGTGGGTATGTGTGCGATCCTG----- [2711]
Ami GCAAGCTCGACTCTGTGGGTCTGTGTGCGGCCTCG--GGCCTCCCTCTCGGTCCCTGAGAC [2895]
Asi GCAAGCTCGACTCTGTGGGTCTGTGTGCGGCCTCG--GGCCTCCCTCTCGGTCCCTGAGAC [2812]
Tgu ----- [1967]
Cli ----- [2560]
Gga ----- [2392]
Xtr ACAAGCTCGAGTGTGCGGGTCTGTGTGCGGCTTGG--GGTGTGATGTTCTGTCCCTGAGAC [2324]
Lch ACAAGCTCGTGTCTAGGGGTCTGTGTGCGGCTTGG--AGCATGCTTCGCTGTCCCTGAGAC [2745]
Dre -----AGTATGTCTCTTTGTCCCTGAGAC [2820]

Hsa CCTTTAACCTGTGAGGA-CATCCAGGG-TCACAGGTGAGGTTCCTTGGGAGCCTGGCGTCT [2624]
Mmu CCTTTAACCTGTGAGGA-CGTCCAGGG-TCACAGGTGAGGTTCCTTGGGAGCCTGGCGCCT [2627]
Mdo ----- [2238]
Meu ----- [1898]
Oan ----- [2126]
Aca CCTT-AACCTGTGAGGA-AGCCCAGAGGTTCACAGGTGAGGTTCCTTGGGAACCTGAGCGGAG [2784]
Pbi CCTT-AACCTGTGAGGA-AGCCCAGAGGTTCACAGGTGAGGGCCTTGGGAACCTGAGTGGGT [2873]
Cpi CCTT-AACCTGTGAGGGCAGCGCAGAAATTCACAGGTGAGGTTCCTTGGGAACCGAGCGACT [2959]
Cmy CCTT-AACCTGTGAGGGCAGCGCAGAAATTCACAGGTGAGGTTCCTTGGGAACCTGAGCGACT [2958]
Psi CCTT-AACCTGTGAGGGCAGCGCAGAGTTCACAGGTGAGGTTCCTTGGGAGCTGAGCGACT [2794]
Asp ----- [2711]
Ami CCTT-ATCCTGTGAGGG-AGCCCAGAGCTTCACAGGTGAGG-CCTTGGGAACCTGGGCGGGT [2952]
Asi CCTT-ATCCTGTGAGGG-AGCCCAGAGCTTCACAGGTGAGG-CCTTGGGAACCTGGGCGGGC [2869]
Tgu ----- [1967]
Cli ----- [2560]
Gga ----- [2392]

Xtr CCTT-AACCTGTGAGGA--AGACATATGTCACAGGTGAGGTTCTGAGGAGCTGGACGCCA [2381]
Lch CCTT-AACCTGTGAGGA---CATCAAGGTACAGGTGAGGTTCTTGGGAAGCTGTGTGGCA [2801]
Dre CCTT-AACCTGTGAGGT--CAAAGTACAGGTGAGGTCCTCAGGAACAGGGCTGCA [2877]

Hsa GGCC--TGCGCTCCTCTCAGTCCCTGAGACCCTAACTTGTGATGTTTACCGTTTAAA-TC [2681]
Mmu GGCC--TGCGCTCCCCTCAGTCCCTGAGACCCTAACTTGTGATGTTTACCGTTTAAA-TC [2684]
Mdo -----TGCGCCCCTCTCAATCCCTGAGACCCTAACTTGTGATGTTTACCGTTTAAA-TC [2291]
Meu ----- [1898]
Oan -----TGCGCCCCTCTCAATCCCTGAGACCCTAACTTGTGATGTTTCCCGTTTAAA-TC [2179]
Aca AGCC--TGCGCCCCTCTCTGTCCCTGAGACCCTAACTTGTGACGTTTGTAGTTTTTAAAG-TC [2841]
Pbi TGCC--TGCGCCCCTCTCTGTCCCTGAGACCCTAACTTGTGACGTTTGTGGTTTTCAAG-TC [2930]
Cpi GGCC--TGCGCCCCTCTCAATCCCTGAGACCCTAACTTGTGATGTTTGTAGTTTTTAAA-TC [3016]
Cmy GGCC--TGCGCCCCTCTCAATCCCTGAGACCCTAACTTGTGATGTTTGTAGTTTTTAAA-TC [3015]
Psi GACC--TGCGCCCCTCTCAATCCCTGAGACCCTAACTTGTGATGTTTGTAGTTTTTAAA-TC [2851]
Asp -----TGCGCCCCTCTCAATCCCTGAGACCCTAACTTGTGATGTTTGTAGTTTTTAAA-TC [2764]
Ami GGCC--TGCGCCCCTCTCAATCCCTGAGACCCTAACTTGTGATGTTTGTAGTTTTTAAA-TC [3009]
Asi GGCC--TGCGCCCCTCTCAATCCCTGAGACCCTAACTTGTGATGTTTGTAGTTTTTAAA-TC [2926]
Tgu -----TGCGCCCCTCTCAATCCCTGAGACCCTAACTTGTGATGTTTGTAGTTTTTAAA-TC [2020]
Cli -----TGCGCCCCTCTCAATCCCTGAGACCCTAACTTGTGATGTTTGTAGTTTTTAAA-TC [2613]
Gga -----TGCGCCCCTCTCAATCCCTGAGACCCTAACTTGTGATGTTTGTAGTTTTTAAA-TC [2445]
Xtr TGCA--TGCACCCCTCTCAATCCCTGAGACCCTAACTTGTGATGTTTGTAGTTTTTAAAAATC [2439]
Lch TGCA--TGCACCCCTCTCAATCCCTGAGACCCTAACTTGTGATGTTTGTAGTTTAAA-TC [2858]
Dre TGCG--TGTGCCTCTCACAATCCCTGAGACCCTAACTTGTGACGTTTTCCTGTTATG-TG [2934]

Hsa CACGGTTAGGCTCTTGGGAGCTGCGAGTCGTGCT--GACTTTTCCTAGTCCCTGAGACC [2739]
Mmu CACGGTTAGGCTCTTGGGAGCTGCGGGTCGTGCC--GACTTTGCCTAGTCCCTGAGACC [2742]
Mdo CACGGTTAGGCTCTTGGGAGCTGTGAGTTGTGCC--GACTTTTCCTAGTCCCTGAGACC [2349]
Meu -----GACTTTTCCTAGTCCCTGAGACC [1921]
Oan CACGGTTAGGTTCTTGGGAGCTGTGAGTTGTGCC--GACTTTTCCTAGTCCCTGAGACC [2237]
Aca CACGGTTAGGCTCTTGGGAGCTGTGAGTTGTGCC--GACTTTTCCTAGTCCCTGAGACC [2899]
Pbi CACGGTTAGGCTCTCGGGAGCTGTGAGTTGTGCC--GACTTTTCCTAGTCCCTGAGACC [2988]
Cpi CACGGTTAGGCTCTTGGGAGCTGTGAGTTGTGCT--GACTTTTCCTAGTCCCTGAGACC [3074]
Cmy CACGGTTAGGCTCTTGGGAGCTGTGAGTTGTGCT--GACTTTTCCTAGTCCCTGAGACC [3073]
Psi CACGGTTAGGCTCTTGGGAGCTGTGAGTTGTGCT--GACTTTTCCTAGTCCCTGAGACC [2909]
Asp CACGGTTAGGCTCTTGGGAGCTGTGAGTTGTGCT--GACTTTTCCTAGTCCCTGAGACC [2822]
Ami CACGGTTAGGCTCTTGGGAGCTGTGAGTTGTGCT--GACTTTTCCTAGTCCCTGAGACC [3067]
Asi CACGGTTAGGCTCTTGGGAGCTGTGAGTTGTGCT--GACTTTTCCTAGTCCCTGAGACC [2984]
Tgu CACGGTTAGGCTCTTGGGAGCTGTGAGTTGTGCT--TACTTTTCCTAGTCCCTGAGACC [2078]
Cli CACGGTTAGGCTCTTGGGAGCTGTGAGTTGTGCT--GACTTTTCCTAGTCCCTGAGACC [2671]
Gga CACGGTTAGGCTCTTGGGAGCTGTGAGTTGTGCT--GACTTTTCCTAGTCCCTGAGACC [2503]
Xtr CACGGTTAGGCTCTTGGGAGCTGTGAGTTGTGCT--GACTTTTCCTAGTCCCTGAGACC [2497]
Lch CACGGTTAGGCTCTTGGGAGCTGTGAGTTGTGCC--AACTTCTCCTAGTCCCTGAGACC [2916]
Dre CACGGTTAGGTTCTTGGGAGCTGAGAGGGGTGCT--CACTCCTCCTGGTCCCTGAGACC [2992]

Hsa CTAACTTGTGAGG-TATTTTGTAGTAACA-TCACAAGTCAGGCTCTTGGGACCTAGGCGGAG [2797]
Mmu CTAACTTGTGAGG-TATTTTGTAGTAACA-TCACAAGTCAGGTTCTTGGGACCTAGGCGGAG [2800]
Mdo CTAACTTGTGAGG-CTTTTTCAGCGACAACCACAGGTCAGGCTCTTGGGACCTAGGCGGAG [2408]
Meu CTAACTTGTGAGG-TTTTTTGTAGCAACAATCACAGGTCAGGTTCTTGGGACCTAGGCGGAG [1980]
Oan CTAACTTGTGAGG-TTTTTTGTAGCAACAATCACAGGTCAGGCTCTTGGGACCTAGGCGGAG [2296]
Aca CTAACTTGTGAGG-TTTTT-TAGTAACAATCACAGGTCAGGCTCTTGGGACCTAGGCGGAG [2957]
Pbi CTAACTTGTGAGG-TTTTTTGTAGTAACAATCACAGGTCAGGCTCTTGGGACCTAGGCGGAG [3047]
Cpi CTAACTTGTGAGG-TTTTTTGTAGCAACAATCACAGGTCAGGCTCTTGGGACCTAGGCGGAG [3133]
Cmy CTAACTTGTGAGG-TTTTTTGTAGCAACAATCACAGGTCAGGCTCTTGGGACCTAGGCGGAG [3132]
Psi CTAACTTGTGAGG-TTTTTTGTAGCAACAATCACAGGTCAGGCTCTTGGGACCTAGGCGGAG [2968]
Asp CTAACTTGTGAGG-TTTTTTGTAGCAACAATCACAGGTCAGGCTCTTGGGACCTAGGCGGAG [2881]
Ami CTAACTTGTGAGG-TTTTTTGTAGCAACAATCACAGGTCAGGCTCTTGGGACCTAGGCGGAG [3126]
Asi CTAACTTGTGAGG-TTTTTTGTAGCAACAATCACAGGTCAGGCTCTTGGGACCTAGGCGGAG [3043]

Tgu CTAAC TTGTGAGG-TTTTTTAGCAACAATCACAAGTCAGGCTCTTGGGACCTAGGCGGAG [2137]
Cli CTAAC TTGTGAGG-TTTTTTAGCAACAATCACAAGTCAGGCTCTTGGGACCTAGGCGGAG [2730]
Gga CTAAC TTGTGAGG-TTTTGTAGCAACAATCACAAGTCAGGCTCTTGGGACCTAGGCGGAG [2562]
Xtr CTAAC TTGTGAGGATTTTTTAGCAACAATCACAAGTTAGGCTCTTGGGACCTAGGCGGAG [2557]
Lch CTAAC TTGTGAGC-TCTTTGCATTAATGTCACGGGTTAGGCTCTTGGGACCTAGGCGGAG [2975]
Dre CTAAC TTGTGAGCTTTGTGTGCTAAAAATCACAGGTTAAGCTCTTGGGACCTGGGCAGAG [3052]

Hsa GG--TGGAGTAAAGTAGCAGCACATAATGGTTTGTGGATTTT-GAAAAGG--TGCAGGCC [2852]
Mmu GG--TGGAGTAAAGTAGCAGCACATAATGGTTTGTGGATGTT-GAAAAGG--TGCAGGCC [2855]
Mdo GG--TGGGGTAAAGTAGCAGCACATAATGGTTTGTGGTTTT-GAAAAGG--TGCAGGCC [2463]
Meu GG--TGGGGTAAAGTAGCAGCACATAATGGTTTGTGGTTTT-GAAAAGG--TGCAGGCC [2035]
Oan TG--TGGGGTAAAGTAGCAGCACATAATGGTTTGTGAGTTTT-GAAA-----TACAGGCC [2348]
Aca GG----- [2959]
Pbi GG----- [3049]
Cpi GG--TGGGCTAACGTAGCAGCACATAATGGTTTGTGGTTTT-GAAAAGG--TGCAGGCC [3188]
Cmy GG--TGGGCTAACGTAGCAGCACATAATGGTTTGTGGTTTT-GAAAAGG--TGCAGGCC [3187]
Psi GG--TGGGCTAACGTAGCAGCACATAATGGTTTGTGGTTTT-GAAAAGG--TGCAGGCC [3023]
Asp GG--TGGGCTAACGTAGCAGCACATAATGGTTTGTGGTTTT-GAAAAGG--TGCAGGCC [2936]
Ami GG--TGGCCTAACGTAGCAGCACATAATGGTTTGTGGATTTT-GAAAAGG--TGCAGGCC [3181]
Asi GG--TGGCCTAACGTAGCAGCACATAATGGTTTGTGGATTTT-GAAAAGG--TGCAGGCC [3098]
Tgu GG--TGGCATAACGTAGCAGCACATAATGGTTTGTGGTTTT-GAAAAGG--TGCAGGCC [2192]
Cli GG--TGGCATAACGTAGCAGCACATAATGGTTTGTGGTTTT-GAAAAGG--TGCAGGCC [2785]
Gga GG--TGGCATAACGTAGCAGCACATAATGGTTTGTGGTTTT-GAAAAGG--TGCAGGCC [2617]
Xtr GG--TGACGTAAAGTAGCAGCACATAATGGTTTGTGGTTAC-ACAGAGG--TGCAGGCC [2612]
Lch GA--TGGAGCACTGTAGCAGCACATAATGGTTTGTGAGTTAT-ATAGAATTATGCAGGCC [3032]
Dre GG--GTCGGTACTGTAGCAGCACAGAATGGTTTGTGAGTTATAACGGGGG--TGCAGGCC [3108]

Hsa ATATTGTGCTGCCTCAAAAATAC--CCTTAAAGTACTGTAG-CAGCACATCATGGTTTAC [2909]
Mmu ATACTGTGCTGCCTCAAAA-TAC--CCTTAAAGTACTGTAG-CAGCACATCATGGTTTAC [2911]
Mdo ATATTGTGCTGCCTCAAAAATAC--CCTTAAAGTACTATAGGCAGCACATCATGGTTTAC [2521]
Meu ATATTGTGCTGCCTCAAAAATAC----- [2058]
Oan ATATTGTGCTGCCTCAAAAATAC--CCTTGGACTGCTATAG-CAGCACATCATGGTTTGC [2405]
Aca -----CCTTAAAGTACTCTAG-CAGCACATCATGATTTGT [2993]
Pbi -----CCTCAAAGTACTATAG-CAGCACATCATGATTTGT [3083]
Cpi ATATTGTGCTGCCTCAAAAATAC--CCTTAAATTACTCTAG-CAGCACATCATGGTTTGC [3245]
Cmy ATATTGTGCTGCCTCAAAAATGC--CCTTAAAGTACTCTAG-CAGCACATCATGGTTTGC [3244]
Psi ATATTGTGCTGCCTCAAAAATAC--CCTTAAAGTACTCTAG-CAGCACATCATGGTTTGC [3080]
Asp ATATTGTGCTGCCTCAAAAATAC--CCTTAAAGTACTCTAG-CAGCACATCATGGTTTGC [2993]
Ami ATATTGTGCTGCCTCAAAAATAC--CCTTAAATTACTCTAG-CAGCACATCATGGTTTGC [3238]
Asi ATATTGTGCTGCCTCAAAAATAC--CCTTAAATTACTCTAG-CAGCACATCATGGTTTGC [3155]
Tgu ATATTGTGCTGCCTCAAAAATAC--CCTCGAAGTGTGTAG-CAGCACATCATGGTTTGC [2249]
Cli ATATTGTGCTGCCTCAAAAATAC--CCTTAAAGTACTCTAG-CAGCACATCATGGTTTGC [2842]
Gga ATATTGTGCTGCCTCAAAAATAC--CCTTAAAGTACTCTAG-CAGCACATCATGGTTTGC [2674]
Xtr ATACTGTGCTGCCGCCAAAACAC--TCCTAAAGAAGTGTAG-CAGCACATCATGATTTGC [2669]
Lch ATGTTGTGCTGCTGCAAAAATAC--CCTTAAAGTGTGTAG-CAGCACATCATGGTTTGC [3089]
Dre G TACTGTGCTGCGGCAACAACGA--CCTTAGACCGCTAAAG-CAGCGGTCATGGTTTTC [3165]

Hsa ATGCTACAGTCAAGATGCGAATCATTATTTGCTGCTCTAGAAATTTAAG----- [2958]
Mmu ATACTACAGTCAAGATGCGAATCATTATTTGCTGCTCTAGAAATTTAAG----- [2960]
Mdo ATGGTGGGAGCGCGCTGCGAATCATTATTTGCTGCTTTAGAAATTTAAG--CTTTAGGAG [2579]
Meu -----CTTTAGGAG [2067]
Oan ATGGTATAGCCAAGATGCGAATCATTATTTGCTGCTTTAGAAATTTAAG--CTTGAGGGG [2463]
Aca ATGTCATAGTAAATATGCAAGTCAATTATTTGCTGCTTTAGAATTTTAAA--CCGGAGGTG [3051]
Pbi GTTTCATAATAAATATGCAAGTCAATTATTTGCTGCTTTAGAATTTTAAAG--CTTGAGGTG [3141]
Cpi ATGATCTTGTAAAGATGCTAATCATTATTTGCTGCTTTAGGAATTTAAG--TTTGAGGAG [3303]
Cmy ATGCTCTAGCAAAAATGCGAATCATTATTTGCTGCTTTGAAATTTAAG--TTTGAGGAG [3302]
Psi ATGCTTTAGCAAAAATGCGAATCATTATTTGCTGCTTTGAAATTTAAG--TTTGAGGAG [3138]

Asp ATGCTCTAGCAAAAATGCGAATCATTATTTGCTGCTTTGGAAATTTAAG--TTTGAGGAG [3051]
Ami ATGATCTTGTAAGAGATGCTAATCATTATTTGCTGCTTTAGGAATTTAAG--TTTGAGGAG [3296]
Asi ATGATCTTGTAAGAGATGCTAATCATTATTTGCTGCTTTAGGAATTTAAG--TTTGAGGAG [3213]
Tgu ATGCTCTGCTCAGGGTGCAAATCATGATTTGCTGCTGTAGGAATTGAAG--TTTGAGGAG [2307]
Cli ATGCTCTAATAAAGATGCGAATCATTATTTGCTGCTTTAGAAAATTTAAG--TTTGAGGAG [2900]
Gga ATGCTGTAGTGAAGATGCGAATCATTATTTGCTGCTTTAGAAAATTTAAG--TTTGAGGAG [2732]
Xtr ATGCTGTATTATAGATTCTAATCATTTTTTGCTGCTTCATGATATTGGG--TTTGAGGTG [2727]
Lch AACAC-TAGTTAAGATGCAAATCATTATTTGCTGCTTTAGAATTTTAGG--TTTGAGGAA [3146]
Dre AACAC-TTAGAGAAGGTGCAAGCCATCATTGCTGCTCTAGAGTTTTAAG----- [3213]

Hsa ----- [2958]
Mmu ----- [2960]
Mdo AA-ATAGCAGCAGCCATGGTTTTGTAGAGATA-CGGTGATACAAAACCATCGTGGGCTGTT [2637]
Meu AA-ATAGCAGCAGCCATGGTTTTGTAGAGATA-AGGTGATGCAAACCATCGTGGGCTGTT [2125]
Oan GTTGTAGCAGCACATCATGGTTTTGTAGGGACA-AGGAGATACAGACCATTCTGGGCTGCC [2522]
Aca AT-GTAGCAGCACAAACATGGTTTTGTAGGGACACAGAAGATACAGACCATTCTGGGCTGCC [3110]
Pbi GC-GTAGCAGCAGCACATGGTTTTGTAGAGAAA-AGAAGATACAGACCATTCTGGGCTGCC [3199]
Cpi AT-GTAGCAGCACATCATGGTTTTGTAGGGACA-AGGAGATACAGACCATTCTGGGCTGCC [3361]
Cmy AT-GTAGCAGCACATCATGGTTTTGTAGGGACA-AGGAGATACAGACCATTCTGGGCTGCC [3360]
Psi AT-GTAGCAGCACATCATGGTTTTGTAGGGACA-AGGAGATACAGACCATGCTGGGCTGCC [3196]
Asp AT-GTAGCAGCACATCATGGTTTTGTAGGGACA-AGGAGATACAGACCATGCTGGGCTGCC [3109]
Ami AT-GTAGCAGCACATCATGGTTTTGTAGGGACA-AGGAGATACAGACCATTCTGGGCTGCC [3354]
Asi AT-GTAGCAGCACATCATGGTTTTGTAGGGACA-AGGAGATACAGACCATTCTGGGCTGCC [3271]
Tgu AT-GTAGCAGCACATCATGGTTTTGTAGGGACA-AGGAGATACAGACCATTCTGGGCTGCC [2365]
Cli AT-GTAGCAGCACATCATGGTTTTGTAGGGACA-AGGAGATACAGACCATTCTGGGCTGCC [2958]
Gga AT-GTAGCAGCACATCATGGTTTTGTAGGGACA-AGGAGATACAGACCATTCTGGGCTGCC [2790]
Xtr AT-CTAGCAGCACATCATGGTTTTGTAGAAAACA-AGGAGATACAGACCATTCTGAGCTGCC [2785]
Lch AT-GTAGCAGCACATCATGGTTTTGTAGGGATA-AGGAGATACAGACCATTCTGAGCTGCC [3204]
Dre ----- [3213]

Hsa -----CCTGCTCCCGCCCCAGCAGCACACTGTGGTTTTGTACGGCACTGTG [3003]
Mmu -----CCTGCCCGCCCCAGCAGCACACTGTGGTTTTGTACGGCACTGTG [3005]
Mdo ACATTTTCCATAAA--CCTGCCTCCGCCCCAGCAGCACACTGTGGTTTTGTTTCAGTGTATG [2695]
Meu ACATTTTCCATAAA--CCTGCCTCCGCCCCAGCAGCACACTGTGGTTTTGTTTCAGTGTGTG [2183]
Oan TCAATCCCCCAAG----- [2535]
Aca TCATTACCTTTTG----- [3123]
Pbi TCATGACCTCAAG----- [3212]
Cpi TCATTACCTCAAG----- [3374]
Cmy TCATTACCTCAAG----- [3373]
Psi TCATTACCTCAAG--CCAGCCTTCGCCCCAGCAGCACATCATGGTTTTGTCTGGAGCTCTG [3254]
Asp TCATTACCTCAAG----- [3122]
Ami TCATTACCTCAAG--CCAGCCC-CGCCCCAGCAGCACATCATGGTTTTGT-GGGGTCTCGT [3410]
Asi TCATTACCTCAAG--CCAGCCC-CGCCCCAGCAGCACATCATGGTTTTGT-GGGGTCTCGT [3327]
Tgu TCATTACCTCAAG----- [2378]
Cli TCATTACCTCAAG----- [2971]
Gga TCATTACCTCAAG----- [2803]
Xtr TCTTGACCTCAGA----- [2798]
Lch TCAGTTCCCCAAG----- [3217]
Dre -----CCTGAGTGCCCTGTAGCAGCACATCATGGTTTTGTAAGTTATAAGG [3258]

Hsa GCCACGTCCAAACCACACTGTGGTGTTAGAGCGAGGGTG--CAGCAGTGCCTTAGCAGCA [3061]
Mmu GCCACGTCCAAACCACACTGTGGTGTTAGAGCGAGGGTA--CAGCGGTGCCTTAGCAGCA [3063]
Mdo GCCAAGTCCAAACCACACTGTGGTGTTAGAGCGAGGGTA--CAACAGTGCCTTAGCAGCA [2753]
Meu GCCAAGTCCAAACCACACTGTGGTGTTAGAGTGAAGGGTA--CAACAGTGCCTTAGCAGCA [2241]
Oan -----CAGCAGTACCTTAGCAGCA [2554]
Aca ----- [3123]
Pbi -----CAGTTGTGCCTTAGCAGCA [3231]

Cpi -----CAGCAGTACATTAGCAGCA [3393]
Cmy -----CAGCAGTACATTAGCAGCA [3392]
Psi AATGCA--CAAACCATTTTGTGATGTTACCGCGCGGGCC--CAACAGTACATTAGCAGCA [3310]
Asp -----CAACAGTACATTAGCAGCA [3141]
Ami GGCACA----GACCATGGCGTGGTGCTACCGCG-GGGCC--CAATCGTACCTTAGCAGCA [3463]
Asi GGCACA----GACCATGGCGTGGTGCTACCGCG-GGGCC--CAATCGTACCTTAGCAGCA [3380]
Tgu -----CTGTCATACTTTAGCAGCA [2397]
Cli -----CTGTCATACTTTAGCAGCA [2990]
Gga -----CTGTCATACTCTAGCAGCA [2822]
Xtr -----CAGCAGTCCCTTAGCAGCA [2817]
Lch -----CAGTGGTACCTTAGCAGCA [3236]
Dre GCAAAATCCGAATCATGATGTGCTGTCCTGGGAGCCTG--CTGCCTGGCTGTAGCAGCA [3316]

Hsa CGTAAA-TATTGGCGTTAAGATTCTAAAATTATCTCCAGTATTAAGTGTGCTGCTGAAGT [3120]
Mmu CGTAAA-TATTGGCGTTAAGATTCTGAAATTACCTCCAGTATTGACTGTGCTGCTGAAGT [3122]
Mdo CGTAAA-TATTGGCGTTAAGATTTTAAAAGTATCTCCAGTATTAAGTGTGCTGCTGAAGT [2812]
Meu CGTAAA-TATTGGCGTTAAGATTTTAAAAGTATCTCCAGTATTAAGTGTGCTGCTGAAGT [2300]
Oan CGTAAA-TATTGGCGTTAAGACTCTAAAAGTATCTCCAGTATTGACTGTGCTGCTGAAGT [2613]
Aca ----- [3123]
Pbi CATAAA-TATTGGAGTTATTATTAGTAAAGTATCTCCAGTATCAATTGTGCTGCTGAAGT [3290]
Cpi CGTAAA-TATTGGCGTTAACT--CTGTAAATATCTCCAGTATTAAGTGTGCTGCTGAAGT [3450]
Cmy CGTAAA-TATTGGCGTTAACT--CTGTAAATATCTCCAGTATTAAGTGTGCTGCTGAAGT [3449]
Psi CGTAAA-TATTGGTGTAACT--CTATAAATATCTCCAGTATTAAGTGTGCTGCTGAAGT [3367]
Asp CGTAAA-TATTGGTGTAACT--CTATAAATATCTCCAGTATTAAGTGTGCTGCTGAAGT [3198]
Ami CGTAAA-TATTGGTGTAAAGATTCTGTAAATATCTCCAGTATTAAGTGTGCTGCTGAAGT [3522]
Asi CGTAAA-TATTGGTGTAAAGATTCTGTAAATATCTCCAGTATTAAGTGTGCTGCTGAAGT [3439]
Tgu CGTAAA-TATTGGTGT--AAGA-CTGTAAATATCTCCAGTATTAAGTGTGCTGCTGAAGT [2454]
Cli CGTAAA-TATTGGTGTAAAGA--CTGTAAATATCTCCAGTATTAAGTGTGCTGCTGAAGT [3047]
Gga CGTAAA-TATTGGTGTAAAA--CTGTAAATATCTCCAGTATTAAGTGTGCTGCTGAAGT [2879]
Xtr CGTAAA-TATTGGTGTAAAA--TGGTC-----CCAATATTAAGTGTGCTGCTAGAGT [2867]
Lch CGTAAAATACTAGAGTTTAGTGTATGAATGCCTCCAGTATTGGTTCGTGCTGCTGAAGT [3296]
Dre CGTAAA-TATTGGAGTCAAAGCACTTGCGAATCCTCCAGTATTGACCGTGTGCTGGAGT [3375]

Hsa AAGG--CTTGTTCCTACTCTAGCAGCACGTAAATATTGGCGTAGTGAAATATATATTAAC [3178]
Mmu AAGG--CTTGTTCCTACTCTAGCAGCACGTAAATATTGGCGTAGTGAAATAAATATTAAC [3180]
Mdo AAGG--CTTGTTCCTACTCTAGCAGCACGTAAATATTGGCGTAGTGAAATCAGTCTGAAAC [2870]
Meu AAGG--CCTGCCCCGCTCTAGCAGCACGTAAATATTGGCGTCGTGAGATA-CTGGTGAAC [2357]
Oan AAGG--CTTATTACGCTCTAGCAGCACGTAAATATTGGTGTAGTGAAG----TCTTAAAC [2667]
Aca -----CTTGTTCCTGCCCCCTAGCAGCACGTAAATATTGGTGTAGTAAAGATAAATCTT-AAC [3176]
Pbi AAGG--CTTGTTCCTGCCCCCTAGCAGCACGTAAATATTGGTGTAGTAAAGATAAATCTT-AAC [3347]
Cpi AAAG--CTTGTTCCTGCCCCCTAGCAGCACGTAAATATTGGTGTATAAAAAGTAAATCA--AAC [3506]
Cmy AAAG--CTTGTTCCTGCCCCCTAGCAGCACGTAAATATTGGTGTAGTAAAGTAAATATTAAC [3507]
Psi AAAG--CTTGTTCCTGCCCCCTAGCAGCACGTAAATATTGGTGTAGTAAATGTAATCTT-AAC [3424]
Asp AAAG--CTTGTTCCTGCCCCCTAGCAGCACGTAAATATTGGTGTAGTAAATGTAATCTT-AAC [3255]
Ami AAGT--CTTGTTCCTGCCCCCTAGCAGCACGTAAATATTGGTGTATAAAAAGTAAATCA--AAC [3578]
Asi AAGT--CTTGTTCCTGCCCCCTAGCAGCACGTAAATATTGGTGTATAAAAAGTAAATCA--AAC [3495]
Tgu AAGG--CTCGTTCCTGCCCCCTAGCAGCACGTAAATATTGGAGTGTCAAAG-AAACCTTCAAC [2511]
Cli AAGG--CTTGTTCCTGCCCCCTAGCAGCACGTAAATATTGGTGTAGTAAAAATAAACCTTAAAC [3105]
Gga AAGG--CTTGTTCCTGCCCCCTAGCAGCACGTAAATATTGGTGTAGTAAAAATAAACCTTAAAC [2937]
Xtr AAGG--ATTGCTCCGCATTAGCAGCACGTAAATATTGG-GTGATATGATATGGA----GC [2920]
Lch AAGG--CCAGCTCCACTCTAGCAGCATGTAATATTGGTGTATAAAAAGATAGACTA-AAAC [3353]
Dre TAGG--CCTTCCTCGCTTTAGCAGCACGTAAATATTGGTGTGTATAGTCAAGGC-CAAC [3432]

Hsa ACCAATATTAC-TGTGCTGCTTTAGTGTGACAGG----- [3211]
Mmu ACCAATATTAT-TGTGCTGCTTTAGTGTGACAGG----- [3213]
Mdo CCCAATATTAC-TGTGCTGCTTTAGTGTGGCAGG--TCGGCTGTGCCCTAGCAGCACGTC [2927]
Meu CCCAATATTAT-TGTGCTGCTTTCAGCGTGGCAGG--TCGGCTGTGCCCTAGCAGCACGTC [2414]

Oan CCCAATATTAT-TGTGCTGCTTTAGCGTGATAGG--TCGGCCGTGCCCTAGCAGCACGTA [2724]
Aca CCCAATATTGT-TGTGCTGCTTAAGCGTGGCAGG--TCCGCCCGGCTCTAGCAGCACGTA [3233]
Pbi GCCAATATTAT-TGTGCTGCTTAAGCGTGACAGG--TCTGCTCTGCTTTAGCAGCACGTA [3404]
Cpi CCCAATATTAT-TGTGCTGCTTAAGCGTGGCAGA--TCAGCAGTGCTCTAGCAGCACGTA [3563]
Cmy CCCAATATTAT-TGTGCTGCTTAAGCGTGGCAGA--TCAGCAGTGCTCTAGCAGCACGTA [3564]
Psi CCCAATATTAT-TGTGCTGCTTAAGCGTGGCAGA--TCAGCAGTGCTCTAGCAGCACGTA [3481]
Asp CCCAATATTAT-TGTGCTGCTTAAGCGTGGCAGA--TCAGCAGTGCTCTAGCAGCACGTA [3312]
Ami CCCAATATTAT-TGTGCTGCTTAAGCGTGGCAGA--TCAGCAGTGCTCTAGCAGCACGTA [3635]
Asi CCCAATATTAT-TGTGCTGCTTAAGCGTGGCAGA--TCAGCAGTGCTCTAGCAGCACGTA [3552]
Tgu CCCAATATTAT-TGTGCTGCTTCAGCGTGGCAGA--TCAGCAGTGCTCTAGCAGCACGTA [2568]
Cli CCCAATATTAT-TGTGCTGCTTAAGCGTGGCAGA--TCAGCAGTGCTCTAGCAGCACGTA [3162]
Gga CCCAATATTAT-TGTGCTGCTTAAGCGTGGCAGA--TCAGCAGTGCTCTAGCAGCACGTA [2994]
Xtr CCCAGTATTAT-TGTACTGCTTAAGTGTGGCAAG--GCAATCTTGCTTTAGCAGCACGTA [2977]
Lch CCCAATGTTGT-TGTGCTGCTTCAGTGTGGCAGG--TCAGCAGTACTTTAGCAGCACGTA [3410]
Dre CCCAATATTATGTGTGCTGCTTCAGTAAGGCAGG----- [3466]

Hsa ----- [3211]
Mmu ----- [3213]
Mdo AAAACTGGAGTCAAAA-----GTTCAATCCTCCAGTATTGCCTTGCTGCTTGAGTGAGG [2982]
Meu AAAACTGGAGTTAACTG-----GTTAAATCCTCCAGTATTGCCTTGCTGCTTGAGCGAGG [2469]
Oan AATACTGGAGTTTGGGGATGCCTCGTTGCTCTCCAGTATTGCATTGCTGCTTGAGCGAGG [2784]
Aca AATACTGGAGTCTAGGATGATACATTTGCCCTCCAGTATTGCTTTGCTGCTTTAATCGGG [3293]
Pbi AATACTGGAGTTTA-GATGCT----CTGCCCTCCAGTATTGCTTTGCTGCTTTAGTCAAG [3459]
Cpi AATACTGGAGTCGAGGACTGCCTGGCTGCTCTCCAGTATTGCATTGCTGCTTGAGTGAGG [3623]
Cmy AATACTGGAGTTTAGGATTGCCTAGCTGCTCTCCAGTATTGCATTGCTGCTTTAGTGAGG [3624]
Psi AATACTGGAGTTTAGGATTGCCTAGCTGCTCTCCAGTATTGCGTTGCTGCTTTAGTGAGG [3541]
Asp AATACTGGAGTTTAGGATTGCCTAGCTGCTCTCCAGTATTGCGTTGCTGCTTTAGTGAGG [3372]
Ami AATACTGGAGTCGAGGACTGCCTGGCTGCTCTCCAGTATTGCATTGCTGCTTGAGTGAGG [3695]
Asi AATACTGGAGTCGAGGACTGCCTGGCTGCTCTCCAGTATTGCATTGCTGCTTGAGTGAGG [3612]
Tgu AATACTGGAGTTTGGGATTGCCT-GTTGCTCTCCAGTATTGCATTGCTGCTTTAGTGAGG [2627]
Cli AATACTGGAGTTTAGGATTGCCTG-TTGCTCTCCAGTATTGCATTGCTGCTTTAGTGAGG [3221]
Gga AATACTGGAGTGGGGATCGCCTG-TTGCTCTCCAGTATTGCATTGCTGCTTTAGTGAGG [3053]
Xtr AATACTGGAGTTCATGACCATATCTGCACTCTCCAGTATTACTTTGCTGCTATATTAAGA [3037]
Lch AATATTGGAGTTCAGA---ATTGCTGCTATCTCCAGTATTGCAATGCTGCTATTGTGAGG [3467]
Dre ----- [3466]

Hsa -----GCTTCCCTGGCTCTAGCAGCACAGAAATATTGGCACAG-----GGAAGCGAGT [3259]
Mmu -----ACTCTCCTGGCTCTAGCAGCACAGAAATATTGGCATGG-----GGAAGTGAGT [3261]
Mdo CAGG--GCTTCCCTGGCTTTAGCAGCACAAAAATATTGGCACCTG-----AGGGAAAGCC [3035]
Meu TAGG--GCCCCCTGGCTTTAGCAGCACAGAAATATTGGCACCTG-----AGGGAAAACC [2522]
Oan CCGG----- [2788]
Aca TTTG--GCCGGTCCCCTCCAGCAGCACTTCAATATTGGCAGTGTCC--ACCCCTCCGG [3349]
Pbi CTGG----- [3463]
Cpi CTGG----- [3627]
Cmy CTGG----- [3628]
Psi CTGG--GCCTGTCCCCTCCAGCAGCACATAAAATATTGGCAGCGTCCCTGGGCATGCCTGC [3599]
Asp CTGG--GCCTGTCCCCTCCAGCAGCACATAAAATATTGGCAGCGTCCCTGGGCATGCCTGC [3430]
Ami CTGG----- [3699]
Asi CTGG----- [3616]
Tgu CTGG----- [2631]
Cli CTGG----- [3225]
Gga CTGG----- [3057]
Xtr TTGC----- [3041]
Lch CTGT----- [3471]
Dre -----GTGTGCTGACAGAAGCAGCACATCAATATTGGCAGCTGCC--CTCTCTCTGGG [3518]

Hsa CTGCCAATATTGGCT-GTGCTGCTCCAGGCAGGGTGGT--GAATAATGTCAAAGTGCTTTA [3316]

Mmu CTGCCAATATTGGCT-GTGCTGCTCCAGGCAGGGTGGT--GAATAATGTCAAAGTGCTTA [3318]
Mdo ATGCCAGTATTGAGA-GTGCTGCTCTAGACAGGGTAGC--GAATAATGTCAAAGTGCTTA [3092]
Meu ATGCCAGTATTGA---GTGCTGCTCCAGACAGGGTGGC--GAATAATGTCAAAGTGCTTA [2577]
Oan -----GAATAATGTCAAAGTGCTTA [2808]
Aca CCGCCAGTATTGCCT-GTGCTGCTCCAGGGGGGCTCGG--GAGTAATGTCAAAGTGCTTA [3406]
Pbi -----GAATAATGTCAAAGTGCTTA [3483]
Cpi -----GAGTAATGTCAAAGTGCTTA [3647]
Cmy -----GGGTAATGTCAAAGTGCTTA [3648]
Psi CTGCCAGTATTTTCTTGTGCTGCTCCAGCGGGGCGGG--GAGTAATGTCAAAGTGCTTA [3657]
Asp CTGCCAGTATTTTCTTGTGCTGCTCCAGCGGGGCGGG--GAGTAATGTCAAAGTGCTTA [3488]
Ami -----GAGTAATGTCAAAGTGCTTA [3719]
Asi -----GAGTAATGTCAAAGTGCTTA [3636]
Tgu -----GAGTAATGTCAAAGTGCTTA [2651]
Cli -----GAGTAATGTCAAAGTGCTTA [3245]
Gga -----GAGTAATGTCAAAGTGCTTA [3077]
Xtr -----GAGTAATGTCAAAGTGCTTA [3061]
Lch -----AAGTAATGACAAAGTGCTTA [3491]
Dre TTGCCAGTATGGTTT-GTGCTGCTCCCGTCAGACAGAC--ATGTATTGTCAAAGTGCTTA [3575]

Hsa CAGTGCAGGTAGTGATATG-T-GC--ATCTACTGCAGTGAAGGCACCTTGTAGCATTATGG [3372]
Mmu CAGTGCAGGTAGTGATGTG-T-GC--ATCTACTGCAGTGAAGGCACCTTGTAGCATTATGC [3374]
Mdo CAGTGCAGGTAGTGATATG-TAGA--ATCTACTGCAGTGAAGGCACCTTGTAGCATTATAG [3149]
Meu CAGTGCAGGTAGTGATATG-TAGA--ATCTACTGCAGTGAAGGCACCTTGTAGCATTATAG [2634]
Oan CAGTGCAGGTAGTGGTATG-TAGA--ATCTACTGCAGTGAAGGCACCTTGTAGCATTATGT [2865]
Aca CAGTGCAGGTAGTGATAAG-TAGA--ACCTACTGCAGTGAAGGCACCTTGTAGCATTATGC [3463]
Pbi CAGTGCAGGTAGTGATTTA-TAGA--ACCTACTGCAGTGAAGGCACCTTGTAGCATTATGC [3540]
Cpi CAGTGCAGGTAGTGATATA--AGA--ACCTACTGCAGTGAAGGCACCTTGTAGCATTATAG [3703]
Cmy CAGTGCAGGTAGTGATATA--AGA--ACCTACTGCAGTGAAGGCACCTTGTAGCATTATAT [3704]
Psi CAGTGCAGGTAGTGATATA--AGA--ATCTACTGCAGTGAAGGCACCTTGTAGCATTATAT [3713]
Asp CAGTGCAGGTAGTGATATA--AGA--ATCTACTGCAGTGAAGGCACCTTGTAGCATTATAT [3544]
Ami CAGTGCAGGTAGTGATATA-TAGA--ACCTACTGCAGTGAAGGCACCTTGTAGCATTATAG [3776]
Asi CAGTGCAGGTAGTGATATA-TACA--ACCTACTGCAGTGAAGGCACCTTGTAGCATTATAG [3693]
Tgu CAGTGCAGGTAGTGATATA-TAGA--ACCTACTGCAGTGAAGGCACCTTGTAGCATTATGT [2708]
Cli CAGTGCAGGTAGTGATATA-TAGA--ACCTACTGCAGTGAAGGCACCTTGTAGCATTATGT [3302]
Gga CAGTGCAGGTAGTGATATA-TAGA--ACCTACTGCAGTGAAGGCACCTTGTAGCATTATGT [3134]
Xtr CAGTGCAGGTAGTGATTTAACAGA--ACCTACTGCAGTGAAGGCACCTTGTAGCATTATAT [3119]
Lch CAGTGCAGGTAGTAATATG-TAGA--ACCTACTGCAGTGAAGGCACCTTGTAGCATTATAT [3548]
Dre CAGTGCAGGTAGTATTATG-GAAT--ATCTACTGCAGTGGAGGCACCTTCTAGCAATACAC [3632]

Hsa T--CTTTTTGTTCTAAGGTGCATCTAGTGCAGATAGTGAAGTAGATTAGCATCTACTGCC [3430]
Mmu T--CTTTTTGTTCTAAGGTGCATCTAGTGCAGATAGTGAAGTAGATTAGCATCTACTGCC [3432]
Mdo T--CTTTTTGTTCTAAGGTGCATCTAGTGCAGATAGTGAAGTAGATTAGCATCTACTGCC [3207]
Meu T--CTTTTTGTTCTAAGGTGCATCTAGTGCAGATAGTGAAGTAGATTAGCATCTACTGCC [2692]
Oan T--CTTTTTGTTCTAAGGTGCATCTAGTGCAGATAGTGAAGTAGATTAGCATCTACTGCC [2923]
Aca T--CTTTTTGTTCTAAGGTGCATCTAGTGCAGATAGTGAAGTAGACTAGCATCTACTGCC [3521]
Pbi T--CTTTTTGTTCTAAGGTGCATCTAGTGCAGATAGTGAAGTAGATTAGCATCTACTGCC [3598]
Cpi T--CTTTTTGTTCTAAGGTGCATCTAGTGCAGATAGTGAAGTAGATTAGCATCTACTGCC [3761]
Cmy T--CTTTTTGTTCTAAGGTGCATCTAGTGCAGATAGTGAAGTAGATTAGCATCTACTGCC [3762]
Psi T--CTTTTTGTTCTAAGGTGCATCTAGTGCAGATAGTGAAGTAGATTAGCATCTACTGCC [3771]
Asp T--CTTTTTGTTCTAAGGTGCATCTAGTGCAGATAGTGAAGTAGATTAGCATCTACTGCC [3602]
Ami T--CTTTTTGTTCTAAGGTGCATCTAGTGCAGATAGTGAAGTAGATTAGCATCTACTGCC [3834]
Asi T--CTTTTTGTTCTAAGGTGCATCTAGTGCAGATAGTGAAGTAGATTAGCATCTACTGCC [3751]
Tgu T--CTTTTTGTTCTAAGGTGCATCTAGTGCAGATAGTGAAGTAGATTAGCATCTACTGCC [2766]
Cli T--CTTTTTGTTCTAAGGTGCATCTAGTGCAGATAGTGAAGTAGATTAGCATCTACTGCC [3360]
Gga T--CTTTTTGTTCTAAGGTGCATCTAGTGCAGATAGTGAAGTAGATTAGCATCTACTGCC [3192]
Xtr T--CTTTTTGTTCTAAGGTGCATCTAGTGCAGATAGTGAAGTAGATTAGCATCTACTGCC [3177]
Lch T--CTTTTTGTTCTAAGGTGCATCTAGTGCAGATAGTGAAGTAGATTAGCATCTACTGCC [3606]

Dre T--GGCTTTGTGCTAAGGTGCATCTAGTGCAGATAGTGAAGTAGACTAGCACCTACTGCC [3690]

Hsa CTAAGTGCTCCTTCTGGCATAAGAAG--TCTGTAGCACTAAAAGTGCTTATAGTGCAGGTA [3488]
Mmu CTAAGTGCTCCTTCTGGCATAAGAAG--TCTGTAGCACTAAAAGTGCTTATAGTGCAGGTA [3490]
Mdo CTAAGTGCTCCTTCTGGCATAAGAAG--TTTGTAGCACTAAAAGTGCTTATAGTGCAGGTA [3265]
Meu CTAAGTGCTCCTTCTGGCATAAGAAG--TTTGTAGCACTAAAAGTGCTTATAGTGCAGGTA [2750]
Oan CTAAGTGCTCCTTCTGGCATAAGAAG--CTTGTAGCACTAAAAGTGCTTATAGTGCAGGCA [2981]
Aca CTAAGTGCTCCTTCTGGCATAAGAAG--CCTGTAGCACTAAAAGTGCTTATAGTGCAGGTA [3579]
Pbi CTAAGTGCTCCTTCTGGCATAAGAAG--CCTGTAGCACTAAAAGTGCTTATAGTGCAGGTA [3656]
Cpi CTAAGTGCTCCTTCTGGCATAAGAAG--CCTGTAGTACTAAAAGTGCTTATAGTGCAGGTA [3819]
Cmy CTAAGTGCTCCTTCTGGCATAAGAAG--TCTGTAGTACTAAAAGTGCTTATAGTGCAGGTA [3820]
Psi CTAAGTGCTCCTTCTGGCATAAGAAG--TCAGTAGTACTAAAAGTGCTTATAGTGCAGGTA [3829]
Asp CTAAGTGCTCCTTCTGGCATAAGAAG--CCAGTAGTACTAAAAGTGCTTATAGTGCAGGTA [3660]
Ami CTAAGTGCTCCTTCTGGCATAAGAAG--CCTGTAGTACTAAAAGTGCTTATAGTGCAGGTA [3892]
Asi CTAAGTGCTCCTTCTGGCATAAGAAG--CCTGTAGTACTAAAAGTGCTTATAGTGCAGGTA [3809]
Tgu CTAAGTGCTCCTTCTGGCATAAGAAG--CTTGTAGCACTAAAAGTGCTTATAGTGCAGGTA [2824]
Cli CTAAGTGCTCCTTCTGGCATAAGAAG--CTTGTAGCACTAAAAGTGCTTATAGTGCAGGTA [3418]
Gga CTAAGTGCTCCTTCTGGCATAAGAAG--CTTGTAGCACTAAAAGTGCTTATAGTGCAGGTA [3250]
Xtr CTAAGTGCTCCTTCTGGCATAAAAAAG--AAAGTGGTGCTAAAAGTGCTTATAGTGCAGGTA [3235]
Lch CTAAGTGCTCCTTCTGGCATAAGAAG--TTAGCAGCGCTAAAAGTGCTTATAGTGCAGGTA [3664]
Dre CTAAGTGCTCCTTCTGGCACGAGGGT--TCAGCAGTGCTAAAAGTGCTTATAGTGCAGGTA [3748]

Hsa GTGTTTA-GTTATCTACTGCATTATGAGCACTTAAAGTACTGCTAG--TTGGCCATGTAA [3545]
Mmu GTGTGTA-GCCATCTACTGCATTACGAGCACTTAAAGTACTGCCAG--TTGGCCATGTCA [3547]
Mdo GTGTTTA-GTTATCTACTGCATTATGAGCACTTGAAGTACTGCTAG--TCGGTTGTGTAA [3322]
Meu GTGTTTA-GTTATCTACTGCATTATGAGCACTTGAAGTACTGCTAG--TCGGTTGTGTAA [2807]
Oan ATGTTTA-GTCGTCTACTGCATTATGAGCACTTCAAGTCTGCAAG--TTGGTTGTGCAA [3038]
Aca GTGATTA-ATAATCTACTGCATTACGAGCACTTAAAGTACTGCTAG--TCGG-GGTGCAA [3635]
Pbi GTGTTTC-ATAATCTACTGCATTAGGAGCACTTAAAGTACTACTAG--TCGGTGGTGCAA [3713]
Cpi GTGTTCA-GTAATCTACTGCATTATGAGCACTTAAAGTACTGCTAG--TGAGTTGTGCAA [3876]
Cmy GTGTTCA-GTAATCTACTGCATTATGAGCACTTAAAGTACTGCTAG--TGAGTTGTGCAA [3877]
Psi GTGTTCA-GTAATCTACTGCATTATGAGCACTTAAAGTACTGCTAG--TCAGTTGTGCAA [3886]
Asp GTGTTCA-GTAATCTACTGCATTATGAGCACTTAAAGTACTGCTAG--TGAGTTGTGCAA [3717]
Ami GTGTTCA-GGAATCTACTGCATTATGAGCACTTAAAGTACTGCTAG----- [3937]
Asi GTGTTCA-GGAATCTACTGCATTATGAGCACTTAAAGTACTGCTAG--TGTGTTGTGTAA [3866]
Tgu GTGTTCA-CTAATCTACTGCATTATAAGCACTTAAAGTACTGCTAG--CAAGTTGTGCAA [2881]
Cli GTGTTCA-CTAATCTACTGCATTATAAGCACTTAAAGTACTGCTAG--TGAGTTGTGCAA [3475]
Gga GTGTTCA-CTAATCTACTGCATTATAAGCACTTAAAGTACTGCTAG--TGAGTTGTGCAA [3307]
Xtr GTTTTTCTGTATTCTACTGCATAATGAGCACTTAAAGTACTCCTAG--TGTAAACTGCAA [3293]
Lch GTGTTTA-GTAATCTACTGCATTGTGAGCACTTAAAGTCTGCTAG--GGAGTTATGCAA [3721]
Dre GTATTTCTGTCATCTACTGCAGTGTGAGCACTTGAAGTACTTCTAG----- [3794]

Hsa AAGTGCTTACAGTGCAGGTAGCTTTTTGAGATCTACTGCAATGTAAGCACTTCTTACATT [3605]
Mmu AAGTGCTAACAGTGCAGGTAGCTTTTTGAGTTCTACTGCAGTGCCAGCACTTCTTACATT [3607]
Mdo AAGTGCTTATAGTGCAGGTAGGTC-GT-GTAACTACTGCCCTGTGAGCACTTCCAACATG [3380]
Meu AAGTGCTTATAGTGCAGGTAGGTCGGT-GTAACTACTGCCCTGTGAGCACTTCCAACATG [2866]
Oan AAGTGCTTACAGTGCAGGTAG-CTTTTAGTACCTACTGCAATGTAAGCACTTCTAGCATT [3097]
Aca AAGTGCTTATAGTGCAGGTAGTGTGTTGGCATCTACTGCAGTGTGGCACTTCCGTGCC- [3694]
Pbi AAGTGCTTATAGTGCAGGTAGTCCAGTGATCTCTACTGCAGTGTAGCACTTCAAGTGGC- [3772]
Cpi AAGTGCTTACAGTGCAGGTAGTGTGTTGGTATCTACTGCAGTGGAAAGCACTTCTAGCATT [3936]
Cmy AAGTGCTTACAGTGCAGGTAGCATTTTTGGTATCTACTGCAGTGGAAAGCACTTCTAGCATT [3937]
Psi AAGTGCTTACAGTGCAGGTAGCATTTTTGGGATCTACTGCAGTGGTAGCACTTCTAGCATT [3946]
Asp AAGTGCTTACAGTGCAGGTAGCATTTTTGGGATCTACTGCAGTGGTAGCACTTCTAGCATT [3777]
Ami ----- [3937]
Asi AAGTGCTTACAGTGCAGGTAGTGTTTTTGGTATCTACTGCAGTATAAGCACTTCTAGCATT [3926]
Tgu AAGTGCTTACAGTGCAGGTAGAGTT-CAGGATCTACTGCAGTTAAGCACTTCTGGCATT [2940]
Cli AAGTGCTTACAGTGCAGGTAGAGTT-TAGGATCTACTGCAGTATAAGCACTTCTGGCATT [3534]

Gga AAGTGCTTACAGTGCAGGTAGAGCT-CAGCACCTACTGCAGTATAAAGCACTTCTGGCATG [3366]
Xtr AAGTGCTTATAGTGCAGGTAGAAT--TTAAACCTACTGCACCATAAAGCACTTCTGCATC [3351]
Lch AAGTGCTTACAGTGCAGGTAGTAAG-CAGTCTCTACTGCAGTGCAAGCACTTCTAGCATT [3780]
Dre ----- [3794]

Hsa ACCAT--TCTCTTGTGTTAAGGTGCATCTAGTGCAGTTAGTGAAGCAGCTTAGAATCTAC [3663]
Mmu ACCAT--TCTCTTGTGTTAAGGTGCATCTAGTGCAGTTAGTGAAGCAGCTTACAATCTAC [3665]
Mdo ACCAC--TCCCTTGTGCTAAGGTGCATCTAGTGCAGTTAGTGATGTAGTTTAGTATCTAC [3438]
Meu ACCAC--TCCCTTGTGCTAAGGTGCATCTAGTGCAGTTAGTGATGTAGCTTAGTATCTAC [2924]
Oan ACCAT--TCCCTTGTGTTAAGGTGCATCTAGTGCAGTTAGTGAAGTAGCTTAGAATCTAC [3155]
Aca ACGAT--CTTCTTGTGCTAAGGTGCATCTAGTGCAGTTAGTGAAGTAGCTTAGAATCTAC [3752]
Pbi ACAAT--TTTCTTGTGCTAAGGTGCATCTAGTGCAGTTAGTGAAGTAGCTTAGACTCTAC [3830]
Cpi ACAAT--TTCTTGTGTTAAGGTGCATCTAGTGCAGTTAGTGAAGTAGCTTAGAATCTAC [3994]
Cmy ACAAT--TTCTTGTGTTAAGGTGCATCTAGTGCAGTTAGTGAAGTAGCTTAGAATCTAC [3995]
Psi ACAAT--TTCTTGTGCTAAGGTGCATCTAGTGCAGTTAGTGAAGTAGCTTAGAATCTAC [4004]
Asp ACAAT--TTCTTGTGCTAAGGTGCATCTAGTGCAGTTAGTGAAGTAGCTTAGAATCTAC [3835]
Ami ----- [3937]
Asi ACCAT--TTCTTGTGTTAAGGTGCATCTAGTGCAGTTAGTGAAGTAGCTTAGAATCTAC [3984]
Tgu ACTGT--GTCCTTGTGTTAAGGTGCATCTAGTGCAGTTAGTGATGTAGCGTAGAATCTAC [2998]
Cli ACTGT--GTTCTTGTGTTAAGGTGCATCTAGTGCAGTTAGTGAAGTAGCGTAGAATCTAC [3592]
Gga ACCGT--GTCCTTGTGTTAAGGTGCATCTAGTGCAGTTAGTGACGTAGCGTAGAATCTAC [3424]
Xtr ACTAA--CTCCTTGTGTTAAGGTGCATCTAGTGCAGTTAGTGACATAGTGATAGCATCTAC [3409]
Lch GCTTT--TATCTTGTGGTAAGGTGCATCTAGCGCAGTTAGTGAGGTAGCTTAGAATCTAC [3838]
Dre -----GCCTTCTGCTAAGGTGCATCTTGTGTAGTTAGTGAAGTAGTCTAGTATCTAC [3847]

Hsa TGCCCTAAATGCCCTTCTGGCACAGGCTG--CTAGTA-GTACCAAAGTGCTCATAGTGC [3720]
Mmu TGCCCTAAATGCCCTTCTCGCACAGGCTA--CTAGTA-GTGCCAAAGTGCTCATAGTGC [3722]
Mdo TGCCCTAAATGCTCCTTCCGGCACAAGCCG--CTGGTA-GTGCCAAAGTGCTCATAGTGC [3495]
Meu TGCCCTAAATGCTCCTTCTGGCACAAGCCG--CTGGTA-GTGCCAAAGTGCTCATAGTGC [2981]
Oan TGCCCTAAATGCTCCTTCTGGCACAAGCTG--CTGACA-GTACCAAAGTGCTCATAGTGC [3212]
Aca TGCCCTGAATGCTCCTTCTGGCATAGGAGG--CTCGCA-GTGTCAAAGTGCTCATAGTGC [3809]
Pbi TGCCCTGAGTGCTCCTTCTGGCACACGGAG--CTGGCA-GTGCCAAAGTGCTCATAGTGC [3887]
Cpi TGCCCTAAATGCTCCTTCTGGCACAAGCTG--CTAGCA-GTATCAAAGTGCTCATAGTGC [4051]
Cmy TGCCCTAAATGCTCCTTCTGGCACAAGCTG--CTAGCA-GTATCAAAGTGCTCATAGTGC [4052]
Psi TGCCCTAAATGCTCCTTCTGGCACAAGCTG--CTAGCA-GTGTCAAAGTGCTCATAGTGC [4061]
Asp TGCCCTAAATGCTCCTTCTGGCACAAGCTG--CTAGCA-GTGTCAAAGTGCTCATAGTGC [3892]
Ami ----- [3937]
Asi TGCCCTAAATGCTCCTTCTGGCACGAGGTG--CTAGCA-GTATCAAAGTGCTCATAGTGC [4041]
Tgu TGCCCTAAATGCTCCTTCTGGCACAAGCTG--CTAGCA-GTATCAAAGTGCTCATAGTGC [3055]
Cli TGCCCTAAATGCTCCTTCTGGCACAAGCTG--CTAGCA-GTATCAAAGTGCTCATAGTGC [3649]
Gga TGCCCTAAATGCTCCTTCTGGCACAAGCTG--CTAGCA-GTATCAAAGTGCTCATAGTGC [3481]
Xtr TGCCCTAAATGCTCCTTTTGGCACAGGTTG--AAAGCA-GTTCCAAAGTGCTCATAGTGC [3466]
Lch TGCCCTAAATGCTCCTTCTGGCACAAGAAA--CATGCA-GTTCCAAAGTGCTCATAGTGC [3895]
Dre TGCGCTAGATGTTCTTTTGGCAGGAGTAG--CTGGCA-GTTCCAAAGTGCTCACAGTGC [3904]

Hsa AGGTAGTTTTTGGCATGACT---CTACTGTAGTATGGGCACCTTCCAGTA-CTCTTG--CTG [3774]
Mmu AGGTAGTTTTTATAACCACT---CTACTGCAGTGTGAGCACTTCTAGTA-CTCCTG--CTG [3776]
Mdo AGGTAGTTTTTTTGCAAATGA--CTACTGTACTATGGGCACCTT-CAGCG-CTCCTG----- [3546]
Meu AGGTAGTTTTTTTGCAAATAA--CTACTGTACTATGGGCACCTT-CAGCG-CTCCTG----- [3032]
Oan AGGTAGTTTTTTTCAATTGATTCTACTGTAATGTGGGCACCTTACAGTA-CTCCAG----- [3266]
Aca AGGTAGTTAATGCACCCAAA-TCTACTGTAATGTGGGCACCTTACAGTA-CTGCCG----- [3862]
Pbi AGGTAGTTG-TGGACCCAAATTCTACTGTAATGTGGGCACCTTCCAGTC-CTGCTG----- [3940]
Cpi AGGTAGTTTTTTGAATTGGA--TCTACTGTAATGTGGGCACCTTATAGTA-CTGCCA--TCC [4106]
Cmy AGGTAGTTTTTTGAATTGGA--TCTACTGTAATGTGGGCACCTTATAGTA-CTGCCA--TCC [4107]
Psi AGGTAGTCTTTGAATTGGA--TCTACTGTAATGTGGGCACCTTATAGTA-CTGCCA----- [4113]
Asp AGGTAGTTTTTTGAATTGGA--TCTACTGTAATGTGGGCACCTTATAGTA-CTGCCA----- [3944]
Ami -----ATC [3940]

Asi	AGGTAGCTTTTGTATTGGA--TCTACTGTAATGTGGGCACCTTACAGTA-CTGCCA--ATC	[4096]
Tgu	AGGTAGCTTG-GAAATGGA--CCTACTGTAATGTGGGCACCTTACAGTA-CTGCTA-----	[3106]
Cli	AGGTAGCTTTT-GAATTGAA--CCTACTGTAATGTGGGCACCTTATAGTA-CTGCTA-----	[3700]
Gga	AGGTAGCTTG-GCATTGGA--CCTACTGTAATGTGGGCACCTTACAGTA-CTGTTA-----	[3532]
Xtr	AGGTAGTTGTATTGATGT---TCTACTGTAATATGGGCACCTTACAGTA-CTGCTA-----	[3517]
Lch	AGGTAGTATTA-AATAAAA--CCTACTGTAATATGAGCACCTTATAGTA-CTGCTG--CTC	[3949]
Dre	AGGTAGTGCC---AGTGGA--TCTACTGCAATGTCTGCACCTTCAAGTA-TTGCCG-----	[3953]
Hsa	CCGGGGCTAAAGTGCTGACAGTGACAGATAGTGGTCCTCTCCGTG-CTACCGCACTGTGGG	[3833]
Mmu	CTGGGACTAAAGTGCTGACAGTGACAGATAGTGGTCCTCTCTGTG-CTACCGCACTGTGGG	[3835]
Mdo	-----	[3546]
Meu	-----	[3032]
Oan	-----	[3266]
Aca	-----	[3862]
Pbi	-----	[3940]
Cpi	GCAGGGCTAAAGTGCTGACAGTGACAGGTAGCTAGCGTCTGGTTG-CTACTGCAGTGTGGG	[4165]
Cmy	ACAGGGCTAAAGTGCTGACAGTGACAGGTAGCTGGCGTCTGTGTG-CTACTGCAGTGTGGG	[4166]
Psi	-----	[4113]
Asp	-----	[3944]
Ami	CCAGGGCTAAAGTGCTTGCAGTGACAGGTAGCTGGCG-CTGGC-G-CTACTGCAGTGTGGG	[3997]
Asi	CCAGGGCTAAAGTGCTTGCAGTGACAGGTAGCTGGCG-CTGGC-G-CTACTGCAGTGTGGG	[4153]
Tgu	-----	[3106]
Cli	-----	[3700]
Gga	-----	[3532]
Xtr	-----	[3517]
Lch	CTAGTGCTAAAGTGCTTACAGTGACAGGTAGAAACTGTACACCACCTACTGCATTGTGGG	[4009]
Dre	-----	[3953]
Hsa	TACTTGCTGCTCCAGCA--CTGGGGGCTCCAAAGTGCTGTTCGTGCAGGTAGTGTGATTA	[3891]
Mmu	TACTTGCTGCTCCAGCA--ATGGGGGCTCCAAAGTGCTGTTCGTGCAGGTAGTGTAAATTA	[3893]
Mdo	-----TGGGGGGCTCCAAAGTGCTGTTCGTGCAGGTAGTGTGATAA	[3587]
Meu	-----	[3032]
Oan	-----	[3266]
Aca	-----	[3862]
Pbi	-----	[3940]
Cpi	GGCTTGCAGCTCTGGGG--CCAGAGGCTCCAAAGTGCTGTTCGTGCAGGTAGCGTGTGCA	[4223]
Cmy	GGCTTGCAGCTCTGGGG-----	[4183]
Psi	-----	[4113]
Asp	-----	[3944]
Ami	GGCTTGCAGCTCTGGGG--GCGGTGGCTCCAAAGTGCTGTTCGTGCAGGTAGTGTGTGCA	[4055]
Asi	GGCTTGCAGCTCTGGGG--GCGGTGGCTCCAAAGTGCTGTTCGTGCAGGTAGTGTGTGCA	[4211]
Tgu	-----	[3106]
Cli	-----	[3700]
Gga	-----	[3532]
Xtr	-----CTATGGGCTTCAAAGTGCTGTTCGTGCAGGTAGCTTAATAA	[3558]
Lch	CACTTTCTGCACTGGCT-----	[4026]
Dre	-----TGTGTGTGTTAAAGTGCTGTTTGTGCAGGTAGTGTG-TTT	[3993]
Hsa	CCCAACCTACTGCTGAGCTAGCACTTCCCGAGCCCCCGG--GCAGTCCTCTGTTAGTTTT	[3949]
Mmu	CCTGACCTACTGCTGAGCTAGCACTTCCCGAGCCCCCAG--GCAGCCCTCTGTTAGTTTT	[3951]
Mdo	CCTGACCTACTGCTGAGCTAGCACTTCCAGAGCCCCCTGG--GCAGTCCTCTGTTAGTTTT	[3645]
Meu	-----GCAGTCCTCTGTTAGTTTT	[3051]
Oan	-----GCAGCTCTCTGTTAGTTTT	[3285]
Aca	-----GCAGTCCTCTGTTAGTTTT	[3881]
Pbi	-----GCAGTCCTCTGTTAGTTTT	[3959]
Cpi	GCCGA-CTACTGCCGAGTCAGCGCTTCGCGAGCCCCCGG--GCAGTCCTCTGTTAGTTTT	[4280]
Cmy	-----GCAGTCCTCTGTTAGTTTT	[4202]

Psi -----GCAGTTCTCTGTTAGTTTT [4132]
Asp -----GCAGTTCTCTGTTAGTTTT [3963]
Ami GCCAT-CTACTGCCGGG-CAGCACTTCCCCGAGCCCCCGC--GCAGACTTCTGTTAGTTTT [4111]
Asi GCCAT-CTACTGCCGGG-CAGCACTTCCCCGAGCCCCCGC--GCAGTCTTCTGTTAGTTTT [4267]
Tgu -----GCAGACTTCTGTTAGTTTT [3125]
Cli -----GCAGTCTTCTGTTAGTTTT [3719]
Gga -----GCAGTCTTCTGTTAGTTTT [3551]
Xtr -CAGACCTACTGCATGGGCGGCACCTTCCCAAGCCCATTG--GCAGTCTTCTGTTAGTTTT [3615]
Lch -----GCAGTCCTCTGTTAGTTTT [4045]
Dre CCT---CTACTGTAGGAGCAGCACTTCCACAACACACACA--GCAGTTCTCTGCTAGTTTT [4048]

Hsa GCATAGTTGCACTACAAGAAGAATGTAGTTGTGCAAATCTATGCAAAAACGATGGTGGCC [4009]
Mmu GCATAGTTGCACTACAAGAAGAATGTAGTTGTGCAAATCTATGCAAAAACGATGGTGGCC [4011]
Mdo GCATAGTTGCACTACAAGAAGAATGTAGTTGTGCAAATCTATGCAAAAACGATGGTGGCC [3705]
Meu GCATAGTTGCACTACAAGAAGAATGTAGTTGTGCAAATCTATGCAAAAACGATGGTGGCC [3111]
Oan GCATAGTTGCACTACAAGAAGAATGTAGTTGTGCAAATCTATGCAAAAACGACGGTGGCC [3345]
Aca GCATAGTTGCACTACAAGAAGAATGTAGTTGTGCAAATCTATGCAAAAACGATTGTGGCC [3941]
Pbi GCATAGTTGCACTACAGGAAGAGTGTAGTTGTGCAAATCTATGCAAAAACGATTGTGGCC [4019]
Cpi GCATAGTTGCACTACAAGAAGAATGTAGTTGTGCAAATCTATGCAAAAACGATGGTGGCC [4340]
Cmy GCATAGTTGCACTACAAGAAGAATGTAGTTGTGCAAATCTATGCAAAAACGATGGTGGCC [4262]
Psi GCATAGTTGCACTACAAGAAGAATGTAGTTGTGCAAATCTATGCAAAAACGATGGTGGCC [4192]
Asp GCATAGTTGCACTACAAGAAGAATGTAGTTGTGCAAATCTATGCAAAAACGATGGTGGCC [4023]
Ami GCATAGTTGCACTACAAGAAGAATGTAGTTGTGCAAATCTATGCAAAAACGATGGTGGCC [4171]
Asi GCATAGTTGCACTACAAGAAGAATGTAGTTGTGCAAATCTATGCAAAAACGATGGTGGCC [4327]
Tgu GCATAGTTGCACTACAAGAAGAGAGTGGTTGTGCAAATCTATGCAAAAGCTGATGGTGGCC [3185]
Cli GCATAGTTGCACTACAAGAAGAGTGTAGTTGTGCAAATCTATGCAAAAACGATGGTGGCC [3779]
Gga GCATAGTTGCACTACAGGAAGAATGTAGTTGTGCAAATCTATGCAAAAACGATGGTGGCC [3611]
Xtr GCATAGTTGCACTACAAGAAAAATGTAGTTGTGCAAATCTATGCAAAAACGATGGCAGCC [3675]
Lch GCATAGTTGCACTACAAGAAGAATGTAGTTGTGCAAATCTATGCAAAAACGATGGTGACC [4105]
Dre GCATAGTTGCACTACAAGAAAAACGGGAGTTGTGCAAATCTATGCAAAAACGATGGTGGCC [4108]

Hsa TG--CTGTTCTATGGTTAGTTTTGCAGGTTTGCATCCAGCTGTG---TGATATTCTGCTG [4064]
Mmu TG--CTGGTCTATGGTTAGTTTTGCAGGTTTGCATCCAGCTGTA---TAATATTCTGCTG [4066]
Mdo TG--CTGTTCTATGGTTAGTTTTGCAGGTTTGCATCCAGCTGTA---TGATATTCTGCTG [3760]
Meu TG----- [3113]
Oan TG--CTGTTCTATGGTTAGTTTTGCAGGTTTGCATCCAGCTGTA---TGGTACTCTGCTG [3400]
Aca TG--CTGTTCTCTGGTTAGTTTTGCAGGTTTGCATCCAGCTGTA---TAATGTGTTGCTG [3996]
Pbi TG--CTGTTCTCTGGTTAGTTTTGCAGGTTTGCATCCAGCTGTA---TGATACTCTGCTG [4074]
Cpi TG--CTGTTCTCTGGTTAGTTTTGCAGGTTTGCATCCAGCTGTA---TGATACTCTGCTG [4395]
Cmy TG--CTGTTCTCTGGTTAGTTTTGCAGGTTTGCATCCAGCTGTA---TGATACTCTGCTG [4317]
Psi TG--CTGTTCTCTGGTTAGTTTTGCAGGTTTGCATCCAGCTGTA---TGATACTCTGCTG [4247]
Asp TG--CTGTTCTCTGGTTAGTTTTGCAGGTTTGCATCCAGCTGTA---TGATACTCTGCTG [4078]
Ami TG--CTGTTCTCTGGTTAGTTTTGCAGGTTTGCATCCAGCTGTA---TGATACTCTGCTG [4226]
Asi TG--CTGTTCTCTGGTTAGTTTTGCAGGTTTGCATCCAGCTGTA---TGATACTCTGCTG [4382]
Tgu TG--CTGTTCTCTGGTTAGTTTTGCAGGTTTGCATCCAGCTGTA---TGATACTCTGCTG [3240]
Cli TG--CTGTTCTCTGGTTAGTTTTGCAGGTTTGCATCCAGCTGTA---TGATACTCTGCTG [3834]
Gga TG--CTGTTCTCTGGTTAGTTTTGCAGGTTTGCATCCAGCTGTA---TGATACTCTGCTG [3666]
Xtr TG--GTGCTTCATGGTTAGTTTTGCAGGTTTGCATCCAGTTGTTTC--TTCTGGCTCACTG [3731]
Lch TG--CTGTTCTCTGGTTAGTTTTGCAGGTTTGCATCCAGCTTTTCACTATACACTTGCTG [4163]
Dre TG--TGGACCCCGGTCAGTTTTGCTGGTTTGCATTCAGCTTTTA--AGACTGTGCGCTG [4164]

Hsa TGCAAATCCATGCAAAAACGACTGTGGTA--CTACTTACAATTAGTTTTGCA--GGTTTG [4120]
Mmu TGCAAATCCATGCAAAAACGACTGTGGTG--CTACTTACGATTAGTTTTGCA--GATTTG [4122]
Mdo TGCAAATCCATGCAAAAACGACTGTGGTG--CTGCTCACAGTCAGTTTTGCA--GGTCTTG [3817]
Meu -----CTACTCACAGTCAGTTTTGCA--GGTCTTG [3141]
Oan TGCAAATCCATGCAAAAACGACTGTGGCA--CTGCTTACAGTCAGTTTTGCA--GGTTTG [3456]
Aca TGCAAATCCATGCAAAAACGACTGTGGCA--ACCACCACAGTCAGTTTTGCA--GGATTG [4054]

Pbi TGCAAATCCATGCAAAACTGACTGTGGCA--TCCACCACAGTCAGTTTTGCATGGATTTG [4132]
Cpi TGCAAATCCATGCAAAACTGACTGTGGCA--CTGACTACAGTCAGTTTTGCA--GGATTG [4451]
Cmy TGCAAATCCATGCAAAACTGACTGTGGCA--CTGACTACAGTCAGTTTTGCA--GGATTG [4373]
Psi TGCAAATCCATGCAAAACTGACTGTGGCA--CTGACTACAGCCAGTTTTGCA--GGATTG [4303]
Asp TGCAAATCCATGCAAAACTGACTGTGGCA--CTGACTACAGCCAGTTTTGCA--GGATTG [4134]
Ami TGCAAATCCATGCAAAACTGACTGTGGCA----- [4255]
Asi TGCAAATCCATGCAAAACTGACTGTGGCA--CTGCTTACAGTCAGTTTTGCA--GGTTTG [4438]
Tgu TGCAAATCCATGCAAAACTGACTGTGGCA--CTGATTACAGTCAGTTTTGCA--GGTTTG [3296]
Cli TGCAAATCCATGCAAAACTGACTGTGGCA--CTAATTACAGTCAGTTTTGCA--GGTTTG [3890]
Gga TGCAAATCCATGCAAAACTGACTGTGGCA--CTGCTCACAGTCAGTTTTGCA--GGTTTG [3722]
Xtr TGCAAATCCATGCAAAACTGATTATGGCA--CCTGCTCCTGTCAGTTTAGCT--GGTTTG [3787]
Lch TGCAAATCCATGCAAAACTGACTGTAGCA----- [4192]
Dre TGCAAATCCATGCAAAACTGATTGTGGCA--TTATCTGGGGTGAGTTTTGCA--GGATTG [4220]

Hsa CATTTTCAGCGTATA--TATGTATATGTGGCTGTGCAAATCCATGCAAAACTGATTGTGAT [4178]
Mmu CAGTTTCAGCGTATA--TGTGAATATATGGCTGTGCAAATCCATGCAAAACTGATTGTGGG [4180]
Mdo CAT--CGGCCTA-----TGTC AATTGCTGTGCAAATCCATGCAAAACTGATTAGGAG [3867]
Meu CAT--CGGCCTA-----TGTCGATTGCTGTGCAAATCCATGCAAAACTGATTATGAG [3191]
Oan CATCCCAGCGTA-----TACAAATTGCTGTGCAAATCCATGCAAAACTGATTGTGAT [3508]
Aca CACAGCGACGGA-----CAGCAAGCTGGGATGCAAA--CC--TGCAAAACGGACTGTAGA [4105]
Pbi CACAGCAACAGA-----CGCCAAGCTGAGATGCAAA--CC--AGCAAAACCCACCGTAGG [4183]
Cpi CATTTCCAGCTTA-----TTTCAAA--CGCTGTGCAAATCCATGCAAAACTGACTGTGGT [4503]
Cmy CATTTCCAGCTTA-----TTTCAAA--CGCTGTGCAAATCCATGCAAAACTGACTGTGGT [4425]
Psi CATTTCCAGCTTA-----TTTCAAA--TGCTGTGCAAATCCATGCAAAACTGACTGTGGT [4355]
Asp CATTTCCAGCTTA-----TTTCAAA--TGCTGTGCAAATCCATGCAAAACTGACTGTGGT [4186]
Ami ----- [4255]
Asi CATCCCAGCTTA-----TATCCGTTGCTGTGCAAATCCATGCAAAACTGACTGTGGT [4490]
Tgu CATCCCAGCTTA-----CTAAAATTGCTGTGCAAATCCATGCAAAACTGACTGTGGT [3348]
Cli CATCCCAGCTTA-----CTAAAATTGCTGTGCAAATCCATGCAAAACTGACTGTGGT [3942]
Gga CATCCCAGCTTG-----CTAAAATTGCTGTGCAAATCCATGCAAAACTGACTGTGGT [3774]
Xtr CATC--AGCTGA-----CTATTG--TGCTGTGCAAATCCATGCAAAACTGACTGTGGC [3836]
Lch ----- [4192]
Dre CATCC--GGCTTT-----ATTACAACATGCTGTGCAAATCCATGCAAAACTCGCTGCGCC [4273]

Hsa AAT--CCACCTTGTCGGGTAGCTTATCAGACTGATGTTGACTGTTGAATCT--CATGGCAA [4235]
Mmu AAT--CCACCTTGTCGGATAGCTTATCAGACTGATGTTGACTGTTGAATCT--CATGGCAA [4237]
Mdo GGC--CCGTCTGTTCGGATAGCTTATCAGACTGATGTTGACTGTTGGATCT--CATGGCAA [3924]
Meu GGC--CCGTCTGTTCGGATAGCTTATCAGACTGATGTTGACTGTTGGATCT--CATGGCAA [3248]
Oan GGT--CCATCCTATCGGATAGCTTATCAGACTGATGTTGACTGTTAGATCT--CCTGGCAA [3565]
Aca TCA--CCTTTCTGTTCGGATAGCTTATCAGACTGATGTTGACTGTTGGATGT--CATGGCAA [4162]
Pbi TCA--CCTTTCTGTTCGGATAGCTTATCAGACTGATGTTGACTGTTGGATGT--CATGGCAA [4240]
Cpi TGC--CCATCCTGTTCGGATAGCTTATCAGACTGATGTTGACTGTTGGATCT--CATGGCAA [4560]
Cmy TGC--CCATCCTGTTCGGATAGCTTATCAGACTGATGTTGACTGTTGGATCT--CATGGCAA [4482]
Psi TGC--CCATCCTGTTCGGATAGCTTATCAGACTGATGTTGACTGTTGGATCT--CATGGCAA [4412]
Asp TGC--CCATCCTGTTCGGATAGCTTATCAGACTGATGTTGACTGTTGGATCT--CATGGCAA [4243]
Ami -----CCATCCTGTTCGGATAGCTTATCAGACTGATGTTGACTGTTGGATGT--CATGGCAA [4309]
Asi GGT--CCATCCTGTTCGGATAGCTTATCAGACTGATGTTGACTGTTGGATGT--CATGGCAA [4547]
Tgu GGT--CCATCCTGTTCGGATAGCTTATCAGACTGATGTTGACTGTTGGATCT--CATGGCAA [3405]
Cli GGT--CCATCCTGTTCGGATAGCTTATCAGACTGATGTTGACTGTTGGATCT--CATGGCAA [3999]
Gga GGT--CCATCCTGTTCGGATAGCTTATCAGACTGATGTTGACTGTTGGATCT--CATGGCAA [3831]
Xtr TGG--CCATCCTGTTCGGATAGCTTATCAGACTGATGTTGACTGTTGGATGT--CATGGCAA [3893]
Lch -----CCATCCTGTTCGGATAGCTTATCAGACTGGTGTGTTGGCTGTTAGATCA--CATGGCGA [4246]
Dre AGG--CCAGTGTGTCAGATAGCTTATCAGACTGGTGTGTTGGCTGTTACATTCGCCCGGCGA [4331]

Hsa CACCAGTCGATGGGCTGTCTGACATTTTGG--TAT--GGCTGAGCCGCAGTAGTTCTTCAG [4292]
Mmu CAGCAGTCGATGGGCTGTCTGACATTTTGG--TAT--GGCTGAGCCGCAGTAGTTCTTCAG [4294]
Mdo CAGCAGTCGATGAGCTGTCTGACATTTTGG--TAT--GGCCGAGCCACAGCAGTTCTTCAG [3981]

Meu CAGCAGTCGATGGGCTGTCTGACATTTTGG-TAT--GGCCGAGCCACAGCAGTTCTTCAG [3305]
Oan CAGCAGTCGATGGGCTGTCTGACATTTTGG-TAT--GGCTGAGTCACAGCAGTTCTTCAG [3622]
Aca CAACAGTCGGTAGGCTGTCTGACATTTTGG-TGT-----CAGCAGTTCTTCAG [4209]
Pbi CAACAGTCGGTAGGCTGTCTGACATTTTGG-TAT--GGCTACCCAGCAGCAGTTCTTCAG [4297]
Cpi CAACAGTCGGTAGGCTGTCTGACATTTTGG-TAT--GGCTAACTAGCACCAGTTCTTCAG [4617]
Cmy CAACAGTCGGTAGGCTGTCTGACATTTTGG-TAT--GGCTAACTTGCACCAGTTCTTCAG [4539]
Psi CAACAGTCGGTAGGCTGTCTGACATTTTGG-TAT--GGC-AACGTGCACCAGTTCTTCAG [4468]
Asp CAACAGTCGGTAGGCTGTCTGACATTTTGG-TAT--GGCTAACGCGCACCAGTTCTTCAG [4300]
Ami CAACAGTCGGTAGGCTGTCTGACATTTTGG-TAT----- [4342]
Asi CAACAGTCGGTAGGCTGTCTGACATTTTGG-TAT----- [4580]
Tgu CAACAGTCGGTAGGCTGTCTGACATTTTGG-TAT----- [3438]
Cli CAACAGTCGGTAGGCTGTCTGACATTTTGG-TAT--GGCTAACCAGCACCAGTTCTTCAG [4056]
Gga CAACAGTCGGTAGGCTGTCTGACATTTTGG-TAT--GGCTGCCCGGCAGCAGTTCTTCAG [3888]
Xtr CAACAGTCGGTAGGCTGTCTGACATTTTGG-TGT--GGCCCGCTAGAAGCAGTTCTTCAG [3950]
Lch CAACAGTCGGTAGGCTGTCTGACATTTTGG-TGT--GGCAAACCTGCACCAGTTCTTCCC [4303]
Dre CAACAGTCTGTAGGCTGTCTGACATTTTGGGCAT--GGCTGACCTGCAGCAGTTCTTCAC [4389]

Hsa TGGCA-AGCTTTATGTCCTGACCC---AGCTAAAGCTGCCAGTTGAAGAAGCTGTTGCCCT [4348]
Mmu TGGCA-AGCTTTATGTCCTGACCC---AGCTAAAGCTGCCAGTTGAAGAAGCTGTTGCCCT [4350]
Mdo TGGCG-AGCTTTATGTCCTGTC---AGCTAAAGCTGCCAGTTGAAGAAGCTGCTGAGCT [4037]
Meu TGGCG-AGCTTTATGTCCTGTC---AGCTAAAGCTGCCAGTTGAAGAAGCTGCTGAGCT [3361]
Oan TGGCA-AGCTTTACGTCCTGTCC---AGCTAAAGCTGCCAGTTGAAGAAGCTGTTGAACT [3678]
Aca CGGCATCGCTTTACGTCCTTAAAGAAGCTAAAGCTGCCAGTTGAAGAAGCTGTTGGCCC [4269]
Pbi TGGCA-CGCTTTACGTCCTTCCA-GCAGCTAAAGCTGCCAGTTGAAGAAGCTGTTGACCG [4355]
Cpi TGGCA-AGCTTTACGTCCTGTCTAGCAGCTAAAGCTGCCAGTTGAAGAAGCTGTTGAATG [4676]
Cmy TGGCA-AGCTTTAAGTCCCTGTCTAGCAGCTAAAGCTGCCAGTTGAAGAAGCTGTTGAATG [4598]
Psi TGGCA-AGCTTTACGTCCTGTCTCGTAGCTAAAGCTGCCAGTTGAAGAAGCTGTTGAACG [4527]
Asp TGGCA-AGCTTTACGTCCTGTCTCGTAGCTAAAGCTGCCAGTTGAAGAAGCTGTTGAACG [4359]
Ami ----- [4342]
Asi ----- [4580]
Tgu ----- [3438]
Cli TGGCA-AGCTTTATGTCCTTCTCTAGTAGCTAAAGCTGCCAGTTGAAGAAGCTGTTGAATG [4115]
Gga TGGCA-AGCTTTATGTCCTTCTCTAGTAGCTAAAGCTGCCAGTTGAAGAAGCTGTTGAATG [3947]
Xtr TGGCA-AGCTTTATGTTGTTTCTCTGT-GCTAAAGCTGCCAGTTGAAGAAGCTGTTGAAAG [4008]
Lch TGGCT-AGCCTTATGTCCATCCTTGCTAGCTAAAGCTGCCAGTTGAAGAAGCTGTTGTGGT [4362]
Dre TGGCA-AGCTTTATGTCCTTGTGTACCAGCTAAAGCTGCCAGCTGAAGAAGCTGTTGTGGT [4448]

Hsa CTGCCCC--CCACGGCCGGCTGGGG-TTCCTGGGGATGGGATTT-----GCTTCCT-GTC [4399]
Mmu CTGCCCC--CCTCGGACGGCTGGGG-TTCCTGGGGATGGGATTT-----GATGCCA-GTC [4401]
Mdo CTGCTCC--CCTTGGCCGGCTGGGG-TTCCTGGGGATGGGATTT-----GATTACT-GCC [4088]
Meu CTGCTCC--CCTTGGCCGGCTGGGG-TTCCTGGGGATGGGATTT-----GATTACT-GCC [3412]
Oan CAGCCCC--CCGCCGGCCGGCTGGGG-TTCCTGGTGATGCGATTTTCT--TGTGCTC-GCC [3732]
Aca GGGCCCA--CCGCTGCCAGCTGGGG-TTCCTGGTGATGTGATTTT---ATTTTGGT-GTT [4322]
Pbi TAGCTGC--CTGCTGCCTGCTGGGG-TTCCTGGTGATGTGATTTT---ACCCTGAT-GTT [4408]
Cpi TAGCCAC--CCCCTGCCAGCTGGGG-TTCCTGGTGATGCGATTTT---ATCCTACC-ACC [4730]
Cmy TAGCCAC--CCCCTGCCAGCTGGGG-TTGCTGGTGATGCGATTTT---ATCCTACC-ACC [4652]
Psi TAGCCAC----- [4534]
Asp TAGCCAC----- [4366]
Ami -----CCACAGCCAGCTGGGG-TTCCTGGTGATGCGATTTT---TACCCACT--GCC [4390]
Asi -----CCACAGCCAGCTGGGG-TTCCTGGTGATGCGATTTT---TACCCACT--GCC [4628]
Tgu ----- [3438]
Cli TAGCCAC--CTGCCGCCCGCCGGGG-TTCCTGGCGATGGGATTTT---ACCCTTTTGGC [4171]
Gga TAGCCAC----- [3954]
Xtr TGGCTAC--CTGCTGACAGCGGGGATTCCTGGAGATGGGATTTTATT--TTGGCAGCCA [4064]
Lch TTGCTGG--CTGTTGTCAATGGGGG-TTCCTGGTAACGTGATTTTA-----TAACACAAG [4414]
Dre TGGCTCT--CTGCCGGCCAGGGGAA-TTCCTGGCAGAGTGATTTT---TAAACCTAA---TGA [4502]

Hsa ACAAAATCACATTGCCAGGGATTTCCAACCGACCCTG--CTCTGGCTGCTTGGGTTTCCTGG [4457]
Mmu ACAAAATCACATTGCCAGGGATTTCCAACCTGACCCTG--CTCTGGCTGCTTGGGTTTCCTGG [4459]
Mdo ACAAAATCACATTGCCAGGGATTTCCAACCTGACCCTG--CTCTGGCTGCTTGGGTTTCCTGG [4146]
Meu ACAAAATCACATTGCCAGGGATTTCCAACCTGACCCTG--CTCTGGCTGCTTGGGTTTCCTGG [3470]
Oan A-AAATCACATTGCCAGGGATTTCCAACCTGGCGGCG--GCCCGGCTGCCTGGGTTTCCTGG [3789]
Aca CAGAATCACATTGCCAGGGATTTCCAACCATCAGTG--TTTTGGTTGTTTGGGTTTCCTGG [4380]
Pbi CAGAATCACATTGCCAGGGATTTCCAACCTGTTGGCA--TTTTGGTTGTTTGGGTTTCCTGG [4466]
Cpi CAAAATCACATTGCCAGGGATTTCCAACGGGCGGCG--TTGTGGCTGTTTGGGTTTCCTGG [4788]
Cmy CAAAATCAAATTGCCAGGGATTTCCAACGGGCGAGCG--TTGTGGCTGTTTGGGTTTCCTGG [4710]
Psi -----TTGTGGCTGTTTGGGTTTCCTGG [4556]
Asp -----TTGTGGCTGTTTGGGTTTCCTGG [4388]
Ami CAAAATCACATTGCCAGGGATTTCCAACCTGGCTGCG--TTGTGGCTGTTTGGGTTTCCTGG [4448]
Asi CAAAATCACATTGCCAGGGATTTCCAACCGGCTGCG--TTGTGGCTGTTTGGGTTTCCTGG [4686]
Tgu -----TTATGGCTGTTTGGGTTTCCTGG [3460]
Cli CAAAATCACATTGCCAGGGATTTCCAACGGGCCCCA--TTGTGGCTGTTTGGGTTTCCTGG [4229]
Gga -----TTGTGGCTGTTTGGGTTTCCTGG [3976]
Xtr ATAAATCACATTGCCAGGGATTTCCAACCTGTCGGCC--GTGTGGCTGTTTGGGTTTCCTGG [4122]
Lch TAGAATCACATTGCCAGGGATTTCCAACCTGATAACA--TTGTGGCTGTTTGGGTTTCCTGG [4472]
Dre CTGAATCACATTGCCAGGGATTTCCAATGGCTCGTG--TTGTGGCTGTGTGGGTTTCCTGG [4560]

Hsa CATGCTGATTTGTGACTTAA---GATTA AAAATCACATTGCCAGGGATTACCACGCAACC- [4513]
Mmu CATGCTGATTTGTGACTTGA---GATTA AAAATCACATTGCCAGGGATTACCACGCAACC- [4515]
Mdo CATGCTGATTTGTGACTTAA---GATGAAAATCACATTGCCAGGGATTACCACGCAGCC- [4202]
Meu CATGCTGATTTGTGACTTAA---GATTA AAAATCACATTGCCAGGGATTACCACGCAACC- [3526]
Oan CATGCTGATTTGTGACTTAA---GAGAAAAATCACATTGCCAGGGATAACCACGCATCC- [3845]
Aca CATGCTGATTTGTGACTTAA---GATGAAAATCACATTGCCAGGGATTACCACATAAACC- [4436]
Pbi CATGCTGATTTGTGACTTAA---GATTA AAAATCACATTGCCAGGGATTACCACATAAACC- [4522]
Cpi CATGCTGATTTGTGACTTAA---GATTA AAAATCACATTGCCAGGGATTACCACATAAACC- [4844]
Cmy CATGCTGATTTGTGACTTAA---GATTA AAAATCACATTGCCAGGGATTACCACATAAACC- [4766]
Psi CATGCTGATTTGTGACTTAA---GATTA AAAATCACATTGCCAGGGATTACCACATAAACC- [4612]
Asp CATGCTGATTTGTGACTTAA---GATTA AAAATCACATTGCCAGGGATTACCACATAAACC- [4444]
Ami CATGCTGATTTGTGACTTAA---AATTA AAAATCACATTGCCAGGGATTACCACAGAGCC- [4504]
Asi CATGCTGATTTGTGACTTAA---AATTA AAAATCACATTGCCAGGGATTACCACAGAGCC- [4742]
Tgu CATGATGATTTGTGACTTAA---GATTA AAAATCACATTGCCAGGGATTACCACGCAGCC- [3516]
Cli CATGATGATTTGTGACTTAA---GATTA AAAATCACATTGCCAGGGATTACCACACAGCC- [4285]
Gga CATGATGATTTGTGAGTTAA---GATTA AAAATCACATTGCCAGGGATTACCACATAGCC- [4032]
Xtr CATGCTGATTTGTGAGTTAA---GATTA AAAATCACATTGCCAGGGATTACCACACAACC- [4178]
Lch CATGCTGATTTGTGACTTAA---GATAAAAATCACATTGCCAGGGATTACCACACAGCC- [4528]
Dre CATGCTGATTTGTGACTGTAGTAAAAAAAATCACATTGCCAGGGATTACCACACTACC- [4619]

Hsa ----- [4513]
Mmu ----- [4515]
Mdo ----- [4202]
Meu ----- [3526]
Oan ----- [3845]
Aca ----- [4436]
Pbi ----- [4522]
Cpi ----- [4844]
Cmy ----- [4766]
Psi ----- [4612]
Asp ----- [4444]
Ami ----- [4504]
Asi ----- [4742]
Tgu ----- [3516]
Cli ----- [4285]
Gga ----- [4032]
Xtr -CTGTGGCTGGTAGGATTCCCTGGCAGAGTGATTTGGAAATGTATGGTACAAAA----TCA [4233]

Lch -CTGTGATTGGTGGGATTTCCTGGCAGAGTGATTTGGGTTTCTCTGCTACAAAAAATCA [4587]
Dre -CTGTGGCGGGAGGGTTTCCTGGCACCGTGATTTGGTGGATAAACAGAAATGAAAA-TCA [4677]

Hsa -----GGGCTCT-GCCTCCCGTGCCTACTGAGCTGA [4543]
Mmu -----GGGCTCC-GCCTCCCGTGCCTACTGAGCTGA [4545]
Mdo -----GGGCTCT-GCCTCCTGTGCCTACTGAGCTGA [4232]
Meu -----GGGCTCT-GCCTCCTGTGCCTACTGAGCTGA [3556]
Oan -----GGGCTCT-GCCTCCTGTGCCTACTGAGCTGA [3875]
Aca -----GGGCTTG-GCCTTCCGTGCCTACTGAGCTGA [4466]
Pbi -----GGGCCCAAGCCTCCCGTGCCTACTGAGCTGA [4553]
Cpi -----GGGCTCT-GCCTCCCGTGCCTACTGAGCTGA [4874]
Cmy -----GGGCTCT-GCCTCCCGTGCCTACTGAGCTGA [4796]
Psi ----- [4612]
Asp ----- [4444]
Ami -----GGGCCCT-GCCTCCGGTGCCTACTGAGCTGA [4534]
Asi ----- [4742]
Tgu ----- [3516]
Cli -----GGGCGCT-GCCTCCTGTGCCTACTGAGCTGA [4315]
Gga ----- [4032]
Xtr CATTGCCAGGGATTTCCAATCAGTCCC--TGCTCC-GCCTCCCGTACCTACTGGGCTGA [4290]
Lch CATTGCCAGGGATTTCCAACCAGGCAC--GGGCTTT-GCCTCCTGTGCCTACTGAGCTGA [4644]
Dre CATTGCCAGGGATTTCCACTCCTGCAC--GGGCT-G-GTCTCCTGTGCCTGCTGTGCTGA [4733]

Hsa AACACAGTTGGTTTT-GTGTACACTGGCTCAGTT---CAGCAGGAACAGGGGTCAAGCCCC [4599]
Mmu AACAA--GTTGATTC-CAGTGCCTACTGGCTCAGTT---CAGCAGGAACAGGAGTCCAGCCCC [4599]
Mdo AACACAGTTGCTTTT-GGATAAACTGGCTCAGTT---CAGCAGGAACAGGAGTCTGGCCCT [4288]
Meu AACACAGTTGCTTTT-GTATAAACTGGCTCAGTT---CAGCAGGAACAGGAGTCTGGCCCT [3612]
Oan AACGCAGTTGCTTTT-GCTTAAACTGGCTCAGTT---CAGCAGGAACAGGAGTCTAGCCCA [3931]
Aca TACTCAGTTGCTTTT-AGATAAACTGGCTCAGTT---CAGCAGGAACAGGAGTCCAGCCCA [4522]
Pbi TACTCAGTTGCTTTT-GGAAAACTGGCTCAGTT---CAGCAGGAACAGGAG----- [4600]
Cpi TACTCAGTCGCTTTT-GCTTAAACTGGCTCAGTT---CAGCAGGAACAGGAGTCGGGCTCC [4930]
Cmy TACTCCGTTGCTTTT-GGTAAACTGGCTCAGTTCTCCAGCAGGAACAGGAGTCCGGCCCC [4855]
Psi ----- [4612]
Asp ----- [4444]
Ami TACTCAGTTGCTTTTGGTTTTAAACTGGCTCAGTT---CAGCAGGAACAGGAGTCTGGCTCC [4591]
Asi ----- [4742]
Tgu ----- [3516]
Cli TTTGTCAGTTGCTTTT-GGTAAACTGGCTCAGTT---CAGCAGGAACAGGAGTCTGCGC-- [4369]
Gga ----- [4032]
Xtr TAATCAGTGGTTATATCTTCCCCTGGCTCAGTT---CAGCAGGA-CAGGAGTTGCAGCCG [4346]
Lch CATTTCAGTTTAT--GAATATACTGGCTCAGTT---CAGCAGGAACAGGAGTTGAGCTCC [4699]
Dre TAATCAGTGGACG--GCTGTGACTGGCTCAGTT---CAGCAGGAACAGGGGCTGGTCTT [4788]

Hsa CT--ATTGGACCCGCCCTCCGGTGCCTACTGAGCTGATATCAGTTCTCATTTTACACACT [4657]
Mmu CT--ATTGGACCCGCCCTCCGGTGCCTACTGAGCTGATATCAGTTCTCATTTTACACACT [4657]
Mdo CT--GTTGGACCCGCCCTCCGGTGCCTACTGAGCTGATAACAGTTCTGATTTTACACACT [4346]
Meu CT--ATTGGACCCGCCCTCCGGTGCCTACTGAGCTGATAACAGTTCTGATTTTACACACT [3670]
Oan GC--ATCGGACTGACCCCTCCAGTGCCTACTGAGCTGATATCAGTTCTCGTTG-ACCCACT [3988]
Aca GT--GATGGACCCGTCTCCGGTGCCTACTGAGCTGATATCAGTTCTGATTTTACACACT [4580]
Pbi ----GATGGACCCGTCTCCGGTGCCTACTGAGCTGATATCAGTTCTGATTTTACATACT [4656]
Cpi AG--GATGGACCCGTCTCCGGTGCCTACTGAGCTGATATCAGTTCTGATTTTACATACT [4988]
Cmy AG----- [4857]
Psi ----- [4612]
Asp ----GATGGACCCGTCTCCGGTGCCTACTGAGCTGATATCAGTTCTGATTTTACATACT [4500]
Ami AG--GATGGACCCGTCTCCAGTGCCTACTGAGCTGATATCAGTTCTGATTTTACATACT [4649]
Asi ----- [4742]
Tgu ----GATGGACCCGTCTCCGGTGCCTACTGAGCTGATATCAGTTCTGATTTTACACACT [3572]

Cli ----GATGGACCCGTCCTCCGGTGCCTACTGAGCTGATATCAGTTCTGATTTTACACACT [4425]
Gga ----GATGGACCCGTCCTCCGGTGCCTACTGAGCTGATATCAGTTCTGATTTTACATACT [4088]
Xtr AG--GATGGACCTGTCTCTTGTGCCTACTGAACTGATATCAGTTCT-ATTTTACACACT [4403]
Lch AT--GGTGGACTCGACCTCCTGTGCCTACTGAGCTGATATCAGTTCTTATTTAACATACT [4757]
Dre CT--TCAGGACCTGAGCTCCGGTGCCTTCTGAGCTGATATCAGTTGT-AGTAAA-TCACT [4844]

Hsa GGCTCAGTTCAGCAGGAACAGGAGTCGAGCCCTTGA--GCCGTGGCCTCGTTTCAAGTAAT [4715]
Mmu GGCTCAGTTCAGCAGGAACAGGAGTCGAGCCCTTGA--GCCGTGGCCTCGTTTCAAGTAAT [4715]
Mdo GGCTCAGTTCAGCAGGAACAGGAGTCGAGCCCGAGA--GCTGTGACCTGGTTTCAAGTAAT [4404]
Meu GGCTCAGTTCAGCAGGAACAGGAGTCGAGCCCGAGA--GCTGTGACCTGGTTTCAAGTAAT [3728]
Oan GGCTCAGTTCAGCAGGAACAGGAGTCGAGCCCGAGA--GCTGTGACCTGGTTTCAAGTAAT [4046]
Aca GGCTCAGTTCAGCAGGAACAGGAGTCGAGCCCTAAA--GCTGTGACCTGCTTCAAGTAAT [4638]
Pbi GGCTCAGTTCAGCAGGAACAGGAGTCGAGCCCAAAA--GCTGTGGCTAGGTTTCAAGTAAT [4714]
Cpi GGCTCAGTTCAGCAGGAACAGGAGTCGAGCCCTAAA--GTTGTGACCTGGTTTCAAGTAAT [5046]
Cmy -----GCTGTGACCTGGTTTCAAGTAAT [4879]
Psi -----GCTGTGACCTGGTTTCAAGTAAT [4634]
Asp GGCTCAGTTCAGCAGGAACAGGAGTCGAGCCCTAAA--GCTGTGACCCGGTTTCAAGTAAT [4558]
Ami GGCTCAGTTCAGCAGGAACAGGAGTCGAGCCCAAAA--GCTGTTACCTGGTTTCAAGTAAT [4707]
Asi -----GCTGTTACCTGGTTTCAAGTAAT [4764]
Tgu GGCTCAGTTCAGCAGGAACAGGAGTCGAGCCCTAGA--GCTGTGGCCTGGTTTCAAGTAAT [3630]
Cli GGCTCAGTTCAGCAGGAACAGGAGTCGAGCCCTAGA--GCTGCGGCTGGTTTCAAGTAAT [4483]
Gga GGCTCAGTTCAGCAGGAACAGGAGTCGAGCCCTAGA--GCTGTACCTGGTTTCAAGTAAT [4146]
Xtr GGCTCAGTTCAGCAGGAACAGGAGTCGGGCCCTTGA--GCAGTGGCCCGTTTCAAGTAAT [4461]
Lch GGCTCAGTTCAGCAGGAACAGGAGTTGAGCCCTAAA--GCTGAGACCTGGTTTCAAGTAGT [4815]
Dre GGCTCAGTTCAGCAGGAACAGGAGTGTGGCCCTCC--GTTGTTCCCTTGTTCAGTAAT [4902]

Hsa CCAGGATAGGCTGTGCAGGTCCCAATGGGCCTATTCTTGGTTACTTGCACGGGGACGCGG [4775]
Mmu CCAGGATAGGCTGTGCAGGTCCCAAGGGGCCTATTCTTGGTTACTTGCACGGGGACGCGG [4775]
Mdo CCAGGATAGGCTGGACCCATTCTCATCGGCCATTCTCGACTACTTGCACCTCGGGCGCGG [4464]
Meu CCAGGATAGGCTGGACCCATTCTCATTTGGCCTATTCTCGGTTACTTGCACCTCGGGCACGG [3788]
Oan CCAGGATAGGCTGTGTGCGCTCAGATTGGCCTGTTCTCGGTTACTTGCACCCAGGGGGCGG [4106]
Aca CCAGGATAGGCTGTGTGCATTCTTAATGGCCTATCCTTGATTACTTGCACCTGGGAAATAG [4698]
Pbi CCAGGATAGGCTGTAGGTACAGCAGTCAGCCTGTTCTCGATTACTTGGCCTTGGAGGCAG [4774]
Cpi CCAGGATAGGCTGTGTGCAATCTAATTGGCCTATTCTTGATTACTTGCACCTGGGAGGCAA [5106]
Cmy CCAGGATAGGCTGTGTGCAATCTAATTGGCCTATTCTTGATTACTTGCACCTGGGAGGCAA [4939]
Psi CCAGGATAGGCTGTGTGCAATCTAATTGGCCTATTCTTGGTTACTTGCACCTGGGAGGCAA [4694]
Asp CCAGGATAGGCTGTGTGCAATCTAATTGGCCTATTCTTGATTACTTGCACCTGGGAGGCAA [4618]
Ami CCAGGATAGGCTGTATGCATTGCAGTTGGCCTATTCTTGATTACTTGCACCTGGGAGACAG [4767]
Asi CCAGGATAGGCTGTATGCATTGCAGTTGGCCTATTCTCGATTACTTGCACCTGGGAGACAG [4824]
Tgu CCAGGATAGGCTGTATCCATTCTAACTCGCCTATTCTTGGTTACTTGCACCTGGGACAGGG [3690]
Cli CCAGGATAGGCTGTATCCATCCGAGCTGGCCTATTCTTGGTTACTTGCACCTAGGAGGCAA [4543]
Gga CCAGGATAGGCTGTATCCATTCTGCTGGCCTATTCTTGGTTACTTGCACCTGGGAGGCAG [4206]
Xtr CCAGGATAGGCTGTTACATTCTGCGTGGCCTATTCTTGATTACTTGCATTGGGAGGCAG [4521]
Lch CCAGGATAGGCTGTGAGTTTTAGAAATTAGCCTGTTCTTGATTACTTGCACCTAGGGGGCAG [4875]
Dre CCAGGATAGGCTGTCTG---TCCTGGAGGCCTATTCTATGATTACTTGCACCTAGGTGGCAG [4959]

Hsa GC--GCTGTGGCTGGATTCAAGTAATCCAGGATAGGCTGTTTCCAT-CTGTGAGGCCTAT [4832]
Mmu GC--GCTGCGGCTGGATTCAAGTAATCCAGGATAGGCTGTGTCCGT-CCATGAGGCCTGT [4832]
Mdo CC--GCTGCGGCCAGGTTCAAGTAATCCAGGATAGGCTGTGTCCAG-CTGCG--GGCCTAT [4520]
Meu CC--GCTGCGGCCAGGTTCAAGTAATCCAGGATAGGCTGTGTCCAG-CTGCT--GGCCTAT [3844]
Oan CC--GCTCCCGCCCGGTTCAAGTAATCCAGGATAGGCTGTGCGCA--CCAC--GGCCTGT [4160]
Aca CC--GCTTCAGCCTGGTTTCAAGTAATCCAGGATAGGCTGTTACCAGGCAGTACGGCCTAT [4756]
Pbi CC--GTCTCAGCCTGGTTTCAAGTAATCCAGGATAGGCTGTTACCAGGCAACACGGCCTAT [4832]
Cpi CC--GCCGTAGCCCGGTTTCAAGTAATCCAGGATAGGCTGTTACCAGGCAGCACGGCCTAT [5164]
Cmy CC--GCCGCAGCCCGGTTTCAAGTAATCCAGGATAGGCTGTTACCAGGCAGCACGGCCTAT [4997]
Psi CC--GCCACAGCCCGGTTTCAAGTAATCCAGGATAGGCTGTTACCAGGCAGCACGGCCTAT [4752]
Asp CC----- [4620]

Ami CC--GTCACGGCCCGGTTCAAGTAATCCAGGATAGGCTGGTGCCAGGCC--CGTGGCCTAT [4824]
Asi CC--GTCACGGCCCGGTTCAAGTAATCCAGGATAGGCTGGTGCCAGGCC--CGTGGCCTAT [4881]
Tgu CC----- [3692]
Cli CC--GCCGCAGCCCGGTTCAAGTAATCCAGGATAGGCT--GTTCCAGCC----CGGCCTGT [4596]
Gga CC----- [4208]
Xtr CT--GCTGCTGCCTGGTTCAAGTAATCCAGGATAGGCTGTTTCCCTCAAAGCACGGCCTAC [4579]
Lch CA--GCTCCGGCCTGGTTCAAGTAATCCAGGATAGGCTGTTTCCACCCAGTGAGGCCTAT [4933]
Dre CC--GCCTTTGCCTGGTTCAAGTAATCCAGGATAGGTTAGTTCCCACTAGTACGGCCTAT [5017]

Hsa TCTTGATTACTTGTCTGAGGCGAGC--CCCGGGACCCAGTTCAAGTAATTCAGGATAG [4890]
Mmu TCTTGATTACTTGTCTGAGGCGAGC--CCCGGGACCCAGTTCAAGTAATTCAGGATAG [4890]
Mdo CCTTGATTGCTTGTCTGAGGCGGC--GCCGGGACCCGTTTCAAGTAATCCAGGATAG [4578]
Meu TCTTGATTACTTGTCTGAGGCGAGC--GCCAGGACCCGTTTCAAGTAATCCAGGATAG [3902]
Oan CCTCGGTTACTTGTCTCGGGAGGTGGC----- [4187]
Aca TCTTGATTACTTGTCTCAGGAGGCGGC--ACTGTGGCCAGTTTCAAGTAATCCAGGATAG [4814]
Pbi TCTTGATTACTTGTCTCAGGAGGCGGC--GCTGTGGCTAGGTTCAAGTAATCCAGGATAG [4890]
Cpi TCTTGATTACTTGTCTCAGGAGGCGGC--GCCGGCGCCGGGTTCAAGTAATCCAGGATAG [5222]
Cmy TCTTGATTACTTGTCTCAGGAGGCGGC----- [5024]
Psi TCTTGATTACTTGTCTCGGGAGGCGGC----- [4779]
Asp ----- [4620]
Ami TCTCGATTACTTGTCTCGGGACGTGGC----- [4851]
Asi TCTCGATTACTTGTCTCGGGACGTGGC----- [4908]
Tgu -----GCCAGACCCAGTTTCAAGTAATCCACTATTG [3723]
Cli TCCCGGTTACTTGTCTCCGGGAGGTGGC--GCCGGCCCCAGGTTCAAGTAATCCAGGATAG [4654]
Gga -----GCTGGCGCTGGGTTCAAGTAATCCAGGATAG [4239]
Xtr TCTTGATTACTTGTCTCAGGAAGTAGC--TTGGGCGCTCGCTTCAAGTAATCCAGGATAG [4637]
Lch TCTCGATTACTTGTCTCAGGAGGAAGC--GCCGGGACCCAGCTTCAAGTAATCCAGGATAG [4991]
Dre TCTTGATTACTTGTCTCAGGAGGAGGC--GCTTTGGCCTGGTTCAAGTAATCCAGGATAG [5075]

Hsa GTTGTG----TGCTGTCCAGCCTGTTCTCCATTACTTGGCTCGGGGACCGGTG--TGGCC [4944]
Mmu GTTGTGG---TGCTGACCAGCCTGTTCTCCATTACTTGGCTCGGGGGCCGGTG--TGGCC [4945]
Mdo GCTGTT----TTCTCTTCCAGCCTGTTCTCCATTACTTGGTTTCGGGGGCCGGTA--TGGCT [4632]
Meu GCTGTT----TTCTCTTCCAGCCTGTTCTCCATTACTTGGTTTCGGGGGCTGGTA--TGGCC [3956]
Oan -----GGTCC [4192]
Aca GCTGTGGGTTACTGATGTCCAGCCTGTTCTTGGATTACTTGGCCTTGGAGGCAGCC--GATGA [4872]
Pbi GCTGTAGGTACAGCAGTCCAGCCTGTTCTCGATTACTTGGCCTTGGAGGCAGCC--GACTG [4948]
Cpi GCTGTGGTCTGCGCAGTCCGCCTGTTCTCGATTACTTGGCGCCGGAGCCGGCC--GATAC [5280]
Cmy -----GACAC [5029]
Psi ----- [4779]
Asp ----- [4620]
Ami -----GAAGC [4856]
Asi -----GAAGC [4913]
Tgu GCTGTGGTCTGGGCAGTCTTACTGTTCTCGGTTACTTGGATCTGGATCCGGCC----- [3776]
Cli GCTGTGATCTGGGCAGTCCAGCCTGTTCTTGGTTACTTGGCTCTGGAGCTGGCC--GGGGC [4712]
Gga GCTGTGGTCTG--GCAGTCCAGCCTGTTCTAGGTTACTTGGCTCCGGAGCCCGCC----- [4291]
Xtr GCTGTAATGTCTCCTGTCCAGCCTTTTCTCGATTACTTGGGACCAGAGCCAATC--CAGCC [4695]
Lch GCTGTTAGTCACTAGCCAGCCTATTCTTGGATTACTTGGGTCTGGAGACGGCT--TTTGA [5049]
Dre GCT--TGTGATGTCCGAAAGCCTATTCCGGGATGACTTGGTTCCAGGAATGAGAC--GTTGT [5132]

Hsa TGAGGAGCAGGGCTTAGCT--GC--TTGTGAGCAGGGTCCACACCAA--GTCGTGTTTCACAGT [5001]
Mmu TGAGGAGCAGGGCTTAGCT--GC--TTGTGAGCAAGGTCCACAGCAAAGTTCGTGTTTCACAGT [5003]
Mdo TGAGGAGCAGGACTTAGCT--GCCTTGTGAACAGAGTCCAGCATCAT--ATTGTGTTTCACAGT [4690]
Meu TGAGGAGCAGGACTTAGCT--GCCTTGTGAACAGAGTCCAGCATCAT--ATTGTGTTTCACAGT [4014]
Oan GGCGGAGCAGGGCTTAGCTGGC--CTGTGAACAG--TTAGTTCCC--TGCGTGTTCACAGT [4247]
Aca CAAGCCGTAGGGCTTAGCCAC--CTGTGAACAGCATTTGGATTCA--GCCATGTTTCACAGT [4929]
Pbi CCTAGGGTAGGGCTTAGCTCAC--TTGTGAACAGCGTTTGGTTCA--GCCGTGTTTCACAGT [5005]
Cpi CGGGGTGCAGGGCTTAGCTCAC--CTGTGAACAGAGTTCGCATCCGTATCGTGTTCACAGT [5339]

Cmy	CGGGGTGCAGGGCTTAGCTCAC--TTGTGAACAGAGTTCGCATCCGCATCGTGTTCACAGT	[5088]
Psi	-----	[4779]
Asp	-----	[4620]
Ami	CAGGGCACAGGGCTTAGCTCAC-CTGTGAACAGAGTTCAGCGTTG-CATCATGTTTCACAGT	[4914]
Asi	CAGGGCACAGGGCTTAGCTCAC-CTGTGAACAGAGTTCAGCGTTG-CATCATGTTTCACAGT	[4971]
Tgu	-----	[3776]
Cli	CGGGGGCAGGGCTTAGCCAC-CTGTGAACAGAGTCCAGCCGT--GCCGTGTTCACAGT	[4769]
Gga	-----	[4291]
Xtr	GGCGGCCAGGGCTTAGCTGTA--TTGTGAGCACTGTCACTCTCG--CACCTGTTCACAGT	[4752]
Lch	AATGGCACAGAGCTTAGCTATA-TGGAGAGCAGTGTATCTGTCACTATCTTGTTCACAGT	[5108]
Dre	GTGGTGTCAAGACTTAACCCAC--TTGTGAACAATGCATCGAACT--TCAATGTTCACAGT	[5189]
Hsa	GGCTAAGTTCCGCCCCC-AGGCC--TCTAACAAGGTGCAGAGCTTAGCTGATTGGTGAA	[5058]
Mmu	GGCTAAGTTCCGCCCCCT-GGACC--TCTAACAAGGTGCAGAGCTTAGCTGATTGGTGAA	[5060]
Mdo	GGCTAAGTTCCGCTCCCC--TTGCC--TCTGACAAGGTGCAGAGCTTAGCCGATTGGTGAA	[4747]
Meu	GGCTAAGTTCCGCCCCC-----TCTAACAAGGTGCAGAGCTTAGCTGATTGGGGAA	[4066]
Oan	GGCTAAGTTCCGCCCCCTCCAGGGC--TCTGTGCGGGCGCAGAGCTTAGCTGATTGGTGAA	[4305]
Aca	GGCTAAGTTCCGCTGCTT-GGAGT--TCTGGTGAGGTGCAGAGCTTAGCTGATTGGTGAA	[4986]
Pbi	GGCTAAGTTCCGCCACTT-GGAGT--TCTAGTGAGGTGCAGAGCTTAGCTGATTGGTGAA	[5062]
Cpi	GGCTAAGTTCCGCCCCC-GGGGT--TCTAACAAGGTGCAGAGCTTAGCTGATTGGTGAA	[5396]
Cmy	GGCTAAGTTCCGCCCCCT-GGGGT--TCTAATGAGGTGCAGAGCTTAGCTGATTGGTGAA	[5145]
Psi	-----TCTAACAAGGTGCAGAGCTTAGCTGATTGGTGAA	[4813]
Asp	-----TCTAACAAGGTGCAGAGCTTAGCTGATTGGTGAA	[4654]
Ami	GGCTAAGTTCCGCCTCCT-GGTGT--TCTGACAAGGTGCAGAGCTTAGCTGATTGGTGAA	[4971]
Asi	GGCTAAGTTCCGCCTCCT-GGTGT--TCTGACAAGGTGCAGAGCTTAGCTGATTGGTGAA	[5028]
Tgu	-----TCTGGCGAGGTGCAGAGCTTAGCTGATTGGTGAA	[3810]
Cli	GGCTAAGTTCCGCCTCCC-GCCCC--TCTGGCGAGGTGCAGAGCTTAGCTGATTGGTGAA	[4826]
Gga	-----TCTGGTGAGGTGCAGAGCTTAGCTGATTGGTGAA	[4325]
Xtr	GGCTAAGTTCCGCGCCTC-TCTGG--TCTACCAAGGTGCAGAGCTTAGCTGATTGGTGAA	[4809]
Lch	GGCTAAGTTTAGTGCCCA-AAGAG--TCTGACAAGGTGCAGAGCTTAGCTGACTGGTGAA	[5165]
Dre	GGTTAAGTTCTGCCGCCCTAGAC--TCTGAGCGGGTGCAGAGCTTAGCTGATTGGTGAA	[5247]
Hsa	CAGTGATTGGTTTTCCGCTTTGTTTCACAGTGGCTAAGTTCTGCACCTGAAGAG-----	[5110]
Mmu	CAGTGATTGGTTTTCCGCTTTGTTTCACAGTGGCTAAGTTCTGCACCTGAAGAG-----	[5112]
Mdo	CAGTCACTGATTTCCCTCTTTGTTTCACAGTGGCTAAGTTCTGCACCTGAAGAG-----	[4799]
Meu	CAGTAATTGATTTCCCTCTTTGTTTCACAGTGGCTAAGTTCTGCACCTGAAGAG-----	[4118]
Oan	CAGTGATTGCTGGACTCTTTGTTTCACAGTGGCTAAGTTCTGCGCCCGCAGAG-----	[4357]
Aca	CAGTGATTGATTTCCCTCTTTGTTTCACAGTGGCTAAGTTCTGCACCTAAAGAG-----	[5038]
Pbi	CAGTGATTGATTTCCCTCTTTGTTTCACAGTGGCTAAGTTCTGCACCTGAAGAG-----	[5114]
Cpi	CAGTGATTGATTTCCCTCTTTGTTTCACAGTGGCTAAGTTCTGCACCTGAAGAG-----	[5448]
Cmy	CAGTGATTGATTTCCCTCTTTGTTTCACAGTGGCTAAGTTCTGCACCTGCAGAG-----	[5197]
Psi	CAGTGATTGATCTCCTCTTTGTTTCACAGTGGCTAAGTTCTGCACCTGAAGAG-----	[4865]
Asp	CAGTGATTGATCTCCTCTTTGTTTCACAGTGGCTAAGTTCTGCACCTGAAGAG-----	[4706]
Ami	CAGTGATTGATTTCCCTCTTTGTTTCACAGTGGCTAAGTTCTGCACCTGAAGAG-----	[5023]
Asi	CAGTGATTGATTTCCCTCTTTGTTTCACAGTGGCTAAGTTCTGCACCTGAAGAG-----	[5080]
Tgu	CAGTGATTGTTTTCCCTCTTTGTTTCACAGTGGCTAAGTTCTGCACCTGAAGAG-----	[3862]
Cli	CAGTGATTGTTTTCCCTCTTTGTTTCACAGTGGCTAAGTTCTGCACCTGAGGAG-----	[4878]
Gga	CAGTGATTGTTTTCCCTCTTTGTTTCACAGTGGCTAAGTTCTGCACCTGAAGAG-----	[4377]
Xtr	CAGTGATTGATTTCCCTCTTTGTTTCACAGTGGCTAAGTTCTGCACCTGAAGAG--CTAGAG	[4867]
Lch	CAGTAATTGATTTCCCTCTTTGTTTCACAGTGGCTAAGTTCTGCACCTGAGGAG--TTATCG	[5223]
Dre	CGTGCATGGCTTGTGTTTTGTTTCACAGTGGCTAAGTTCTTCACCCGAAAAG--CTCAGC	[5305]
Hsa	-----	[5110]
Mmu	-----	[5112]
Mdo	-----	[4799]
Meu	-----	[4118]
Oan	-----	[4357]

Aca	-----	[5038]
Pbi	-----	[5114]
Cpi	-----	[5448]
Cmy	-----	[5197]
Psi	-----	[4865]
Asp	-----	[4706]
Ami	-----	[5023]
Asi	-----	[5080]
Tgu	-----	[3862]
Cli	-----	[4878]
Gga	-----	[4377]
Xtr	AGGCAGGACTTAGCTGGCTCTGTGAACAGGTCTT--GTGTG-TCAATGTTTCACAGTGGCT	[4924]
Lch	GTGCAGGGCTTAGCTTAC-CTGTGAACAGTTAAA--TAGACCTTGTGTTTCACAGTGGCT	[5280]
Dre	GCGCAGAGCTTAGCTAAT-CGGTGAGCATTGATCCCTTAAGAAAACGTTCACAGTGGCT	[5364]
Hsa	-----TTAGAGGATGACTGATTTCTTTTGGTGTTCAGAGTCAATATAAATT	[5155]
Mmu	-----TTAGAGGATGACTGATTTCTTTTGGTGTTCAGAGTCAATAGAATT	[5157]
Mdo	-----TTAGAGGATGACTGATTTCTTTTGGTGTTCAGAGTCAATATCATT	[4844]
Meu	-----TTAGAGGATGACTGATTTCTTTTGGTGTTCAGAGTCAATATCATT	[4163]
Oan	-----CTAGAGGATGACTGATTTCTTTTGGTGTTCAGAGTCAATATCATT	[4402]
Aca	-----TTAAAGGATGACTGATTTCTTCTGGTGTTCGGAGTCTAGTTCTCT	[5083]
Pbi	-----TTAAAGGATAACTGATTTCTTCTGGTGTTCGGAGTCTATTCTCT	[5159]
Cpi	-----TTAGAGGATGACTGATTTCTTTTGGTGTTCAGAGTCAATACTATT	[5493]
Cmy	-----TCAAAGGATGACTGATTTCTTTTGGTGTTCAGAGTCAATACTATT	[5242]
Psi	-----TTAGAGGATGACTGATTTCTTTTGGTGTTCAGAGTCAATACTATT	[4910]
Asp	-----TTAGAGGATGACTGATTTCTTTTGGTGTTCAGAGTCAATACTATT	[4751]
Ami	-----TTAGAGGATGACTGATTTCTTTTGGTGTTCAGAGTCCATACTATT	[5068]
Asi	-----TTAGAGGATGACTGATTTCTTTTGGTGTTCAGAGTCCATACTATT	[5125]
Tgu	-----TTAGAGGATGACTGATTTCTTTTGGTGTTCAGAGTCAATAATAAT	[3907]
Cli	-----TTAGAGGATGACTGATTTCTTTTGGTGTTCAGAGTCAATAATAAT	[4923]
Gga	-----TTAGAGGATGACTGATTTCTTTTGGTGTTCAGAGTCAATAATAAT	[4422]
Xtr	AAGTTCACCCCA--TTAAAGGATGACTGATTTCTTCTGGTGTTCAGAGTC--TTTTGTT	[4980]
Lch	AAGTTCGCATCT--TTAAAGGATGACTGATTTCTTTTGGTGTTCAGAGTCTGTTAT-TT	[5337]
Dre	AAGTTCAGTGTCT--CCAAACGATGACTGATTTCTTTTGGTGTTCAGAGTCCCATCTGTC	[5422]
Hsa	TTCTAGCACCATCTGAAATCGGTTATAATGATTGGGGA--CTTCAGGAAGCTGGTTTCAT	[5213]
Mmu	TTCTAGCACCATCTGAAATCGGTTATAATGATTGGGGA--CTTCAGGAAGCTGGTTTCAT	[5215]
Mdo	TTCTAGCACCATTTGAAATCGGTTATAATGATTGGGGA--CTTCAGGAAGCTGGTTTCAT	[4902]
Meu	TTCTAGCACCATTTGAAATCGGTTATAATGATTGGGGA--CTTCAGGAAGCTGGTTTCAT	[4221]
Oan	TTCTAGCACCATTTGAAATCGGTTATAATGATTGGGGA--CTTCAGGAAGCTGGTTTCAT	[4460]
Aca	TTCTAGCACCATTTGAAATCGGTTATAGTGATTGGGGA--CCTCAGGAAGCTGGTTTCAT	[5141]
Pbi	TTCTAGCACCATTTGAAATCGGTTATAGTGATTGGGGA--CTTCAGGAATCTGGTTTCAT	[5217]
Cpi	TTCTAGCACCATTTGAAATCGGTTATAGTGACTGGGGA--CCTCAGGAAGCTGGTTTCAT	[5551]
Cmy	TTCTAGCACCATTTGAAATCGGTTATAGTGACTGGGGA--CCTCAGGAAGCTGGTTTCAT	[5300]
Psi	TTCTAGCACCATTTGAAATCGGTTATAGTGACAGGGGA--CCTCAGGAAGCTGGTTTCAT	[4968]
Asp	TTCTAGCACCATTTGAAATCGGTTATAATGACAGGGGA--CCTCAGGAAGCTGGTTTCAT	[4809]
Ami	TTCTAGCACCATTTGAAATCGGTTATAGTGATTGGGGA--CTTCAGGAAGCTGGTTTCAT	[5126]
Asi	TTCTAGCACCATTTGAAATCGGTTATAGTGATTGGGGA--CTTCAGGAAGCTGGTTTCAT	[5183]
Tgu	TTCTAGCACCATTTGAAATCGGTTATAGTGATTGGGGA--CCTCAGGAAGCTGGTTTCAT	[3965]
Cli	TTCTAGCACCATTTGAAATCGGTTATAGTGATTGGGGA--CCTCAGGAAGCTGGTTTCAT	[4981]
Gga	TTCTAGCACCATTTGAAATCGGTTATAGTGATTGGGGA--CCTCAGGAAGCTGGTTTCAT	[4480]
Xtr	TTCTAGCACCATTTGAAATCGGTTATAATGATGGGGTA--TTTCAGGAGGCTGGTTTCAT	[5038]
Lch	GTCTAGCACCATTTGAAATCGGTTATAGTGATTGGGGA--CTCCAGGAAGCTGGTTTCAT	[5395]
Dre	ATCTAGCACCATTTGAAATCGGTTATAATGACTGGGGA--CCTCCAGATGCTGGTTTCAC	[5480]
Hsa	ATGGTGGTTTAGATTTAAATAGTGATTGTCTAGCACCATTTGAAATCAGTGTCTTTGGGG	[5273]
Mmu	ATGGTGGTTTAGATTTAAATAGTGATTGTCTAGCACCATTTGAAATCAGTGTCTTTGGTG	[5275]

Hsa TAGATTTTTCCATCTTTGTATCTAGCACCATTTGAAATCAGTGTTTTAGGAG--GCGACT [5444]
Mmu TAGATTTTTCCATCTTTGTATCTAGCACCATTTGAAATCAGTGTTTTAGGAG--GCGACT [5446]
Mdo TAGATTTTTCCATCTCTGTATCTAGCACCATTTGAAATCAGTGTTTTAGGAG--GCGGCT [5133]
Meu ----- [4366]
Oan TAGATTTTTCCATCTCTGTATCTAGCACCATTTGAAATCAGTGTTTTAGGAG--GCGACT [4693]
Aca TAGATTTTTCCATCTTTGTATCTAGCACCATTTGAAATCAGTGTTCTAGGAG--GCGACT [5374]
Pbi TAGATTTTTCCATCTCTGTATCTAGCACCATTTGAAATCAGTGTTCTAGGAG--GCGATT [5450]
Cpi TAGATTTTTCCATCTTTGTATCTAGCACCATTTGAAATCAGTGTTCTAGGAG--GCGACT [5784]
Cmy TAGATTTTTCCATCTTTGTATCTAGCACCATTTGAAATCAGTGTTCTAGGAG--GCGACT [5531]
Psi TAGATTTTTCCATCTTTGTATCTAGCACCATTTGAAATCAGTGTTCTAGGAG--GCGACT [5200]
Asp TAGATTTTTCCATCTCTGTATCTAGCACCATTTGAAATCAGTGTTCTAGGAG--GCGACT [5041]
Ami TAGATTTTTCCATCTTTGTATCTAGCACCATTTGAAATCAGTGTTCTAGGGG--GCGACT [5359]
Asi TAGATTTTTCCATCTTTGTATCTAGCACCATTTGAAATCAGTGTTCTAGGGG--GCGACT [5416]
Tgu TAGATTTTTCCCA--CTTTGTATCTAGCACCATTTGAAATCAGTGTTCTAGGAG--GCGACT [4197]
Cli TAGATTTTTCCCA--CTTTGTATCTAGCACCATTTGAAATCAGTGTTCTAGGAG--GCGACT [5213]
Gga TAGATTTTTCCCA--CTTTGTATCTAGCACCATTTGAAATCAGTGTTCTAGGAG--GCGACT [4712]
Xtr TAGATTTATCCATCGCTGCATCTAGCACCATTTGAAATCAGTGTTCTAGGAG--GCGACT [5272]
Lch TAGATAGTTCCATCCCTGCATCTAGCACCATTTGAAATCAGTGTTCTAGGAG--GTGACT [5626]
Dre TAGAGTATTTTA---TGGCATCTAGCACCATTTGAAATCAGTGTTCTGGGC--GCAGTT [5627]

Hsa GTAAACATCCTCGACTGGAAGCTGTGAAGCCACAGATGG--GCTTTCAGTCGGATGTTTG [5502]
Mmu GTAAACATCCTCGACTGGAAGCTGTGAAGCCACAAATGG--GCTTTCAGTCGGATGTTTG [5504]
Mdo GTAAACATCCTCGACTGGAAGCTGTGAAGCAGCAGATGGG--GCTTTCAGTCGGATGTTTG [5192]
Meu ----- [4366]
Oan GTAAACATCCTCGACTGGAAGCTGTGAAGCAGCAGATGGG--GCTTTCAGTCGGATGTTTG [4752]
Aca GTAAACATCCTCGACTGGAAGCTGTGAAGCAGTAGATGAA--GCTTTCAGTCGGATGTTTG [5433]
Pbi GTAAACATCCTCGACTGGAAGCTGTGAAGCAGCAGATGGG--GCTTTCAGTCGGATGTTTG [5509]
Cpi GTAAACATCCTCGACTGGAAGCTGTGAAGCAGCAGATGGG--GCTTTCAGTCGGATGTTTG [5843]
Cmy GTAAACATCCTCGACTGGAAGCTGTGAAGCAGCAGATGGG--GCTTTCAGTCGGATGTTTG [5590]
Psi GTAAACATCCTCGACTGGAAGCTGTGAAGCAGCAGATGGG--GCTTTCAGTCGGATGTTTG [5259]
Asp GTAAACATCCTCGACTGGAAGCTGTGAAGCAGCAGATGGG--GCTTTCAGTCGGATGTTTG [5100]
Ami GTAAACATCCTCGACTGGAAGCTGTGAAGCAGCAGATGGG--GCTTTCAGTCGGATGTTTG [5418]
Asi GTAAACATCCTCGACTGGAAGCTGTGAAGCAGCAGATGGG--GCTTTCAGTCGGATGTTTG [5475]
Tgu GTAAACATCCTCGACTGGAAGCTGTGAAGCAGCAGATGGG--GCTTTCAGTCGGATGTTTG [4256]
Cli GTAAACATCCTCGACTGGAAGCTGTGAAGCAGCAGATGGG--GCTTTCAGTCGGATGTTTG [5272]
Gga GTAAACATCCTCGACTGGAAGCTGTGAAGCAGCAGATGGG--GCTTTCAGTCGGATGTTTG [4771]
Xtr GTAAACATCCTCGACTGGAAGCTGTGAAGCAGTTGAAGG--GCTTTCAGTCAGATGTTTG [5330]
Lch GTAAACATCCTCGACTGGAAGCTGTGAAGCAGCAGATGTG--GCTTTCAGTCGGATGTTTG [5685]
Dre GTAAACATTCCTCGACTGGAAGTTGTAATGCAGAAAATCTCAGCTTTCAGTCTGATGTTTG [5687]

Hsa CAGCTGC--AGATACTGTAAACATCCTACACTCTCAGCTGTG--GAAAGTAAGAAAGCTG [5558]
Mmu CAGCTGC--AGATATTGTAAACATCCTACACTCTCAGCTGTG--AAAAGTAAGAAAGCTG [5560]
Mdo CAGCTGC--AGATATTGTAAACATCCTACACTCTCAGCTGTG--GAAAGTCAGAAAGCTG [5248]
Meu -----AGATATTGTAAACATCCTACACTCTCAGCTGTG--GAAAGTCAGAAAGCTG [4415]
Oan CAGCTGC--AGGFACTGTAAACATCCTACACTCTCAGCTGTA--GATG--TGAGAAAGCTG [4807]
Aca CAGCTGC--AGGTAATGTAAACATCCTACACTCTCAGCTGTGTAGATAAGAAGAAAGCTG [5491]
Pbi CAGCTGC-----TGTAACATCCTACACTCTCAGCTGTGTGGAAAAGAAGAAAGCTG [5561]
Cpi CAGCTGC--AGGFACTGTAAACATCCTACACTCTCAGCTGTG--GAAAGTAAGGAAGCTG [5899]
Cmy CAGCTGC--AGGFACTGTAAACATCCTACACTCTCAGCTGTG--GAAAGTAAGGAAGCTG [5646]
Psi CAACTGC--AGGFACTGTAAACATCCTACACTCTCAGCTGTG--GAAAGTAAGGAAGCTG [5315]
Asp CAACTGC--AGGFACTGTAAACATCCTACACTCTCAGCTGTG--GAAAATAAGGAAGCTG [5156]
Ami CAGCTGC--AGGTAATTGTAAACATCCTACACTCTCAGCTGTG--GAAAATGAGGAAGCTG [5474]
Asi CAGCTGC--AGGTAATTGTAAACATCCTACACTCTCAGCTGTG--GAAAATGAGGAAGCTG [5531]
Tgu CAGCTGC--AGGTAATTGTAAACATCCTACACTCTCAGCTGTG--GAAACTAAGAAAGCTG [4312]
Cli CAGCTGC--AGGFACTGTAAACATCCTACACTCTCAGCTGTG--GAAACTAAGAAAGCTG [5328]
Gga CAGCTGC--AGGFACTGTAAACATCCTACACTCTCAGCTGTG--GAAACTAAGAAAGCTG [4827]

Xtr CAGCTGC--AGATACTGTAAACATCCTACACTCTCAGCTGTG--GAAAT--ACAAAGCTG [5384]
Lch CTGCTGC--AGTGCCTGTAAACATCCTACACTCTCAGCTGTG--TATGTGAGCA-AGCTG [5740]
Dre CTGCTAC----- [5694]

Hsa GGAGAAGGCTGTTTACTCTTTCT--TTTGCTACTGTAAACATCCTTGACTGGAAGCTGTA [5616]
Mmu GGAGAAGGCTGTTTACTCTCTCT--TTTGCTACTGTAAACATCCTTGACTGGAAGCTGTA [5618]
Mdo GGAGAAGGCTGTT-ACTCTGTCT--TTTGCCGCTGTAAACATCCTTGACTGGAAGCTGTA [5305]
Meu GGAGAAGGCTGTTTACTCTGTCT--TGTGCCGCTGTAAACATCCTTGACTGGAAGCTGTA [4473]
Oan GGAGAAGGCTGTTTACTCTCTCT--TTTGCTACTGTAAACATCCTTGACTGGAAGCTGGA [4865]
Aca GGAGAAGGCTGTTTACTCTCTCT--GT-GCTCCTGTAAACATCCTTGACTGGAAGCTGTG [5548]
Pbi GGAGAAGGCTGTTTACTCTCTCT--GTTGCTCCTGTAAACATCCTTGACTGGAAGCTGTA [5619]
Cpi GGAGAAGGCTGTTTACTCTCTCT--GTTGCTACTGTAAACATCCTTGACTGGAAGCTGTA [5957]
Cmy GGAGAAGGCTGTTTACTCTCTCT--GTTGCTACTGTAAACATCCTTGACTGGAAGCTGTA [5704]
Psi GGAGAAGGCTGTTTACTCTCTCT--ATTGCTACTGTAAACATCCTTGACTGGAAGCTGTA [5373]
Asp GGAGAAGGCTGTTTACTCTTTCT--GTTGCTACTGTAAACATCCTTGACTGGAAGCTGTA [5214]
Ami GGAGAAGGCTGTTTACTCTCCCT--GATGCTACTGTAAACATCCTTGACTGGAAGCTGTA [5532]
Asi GGAGAAGGCTGTTTACTCTTCCCT--GATGCTACTGTAAACATCCTTGACTGGAAGCTGTA [5589]
Tgu GGAGAAGGCTGTTTACTCTCTCT--AGTGCCTCTGTAAACATCCTTGACTGGAAGCTGGA [4370]
Cli GGAGAAGGCTGTTTACTCTCCCT--CTTGCTGCTGTAAACATCCTTGACTGGAAGCTGTG [5386]
Gga GGAGAAGGCTGTTTACTCTCCCT--ATCGCTGCTGTAAACATCCTTGACTGGAAGCTGTG [4885]
Xtr GGGGAAGGCTGTTTACTCTCTCT--ACAGCCTCTGTAAACATCCTTGACTGGAAGCTGTG [5442]
Lch GGAGAGGGGTGTTTACTCTCATT----- [5763]
Dre -----CGGGCTACTGTAAACATCCTTGACTGGAAGCTGGT [5729]

Hsa AGGTGTTTCAGAGG-AGCTTTTCAGTCGGATGTTTACAGCGGCA--GTAGTGTGTGTAAACA [5673]
Mmu AGGTGTTTCAGAGG-AGCTTTTCAGTCGGATGTTTACAGCGGCA--GTAGTGTGTGTAAACA [5675]
Mdo AGGTGCTTTCAGAGG-AGCTTTTCAGTCGGATGTTTACAGCGGCA--GTAGTGTGTGTAAACA [5362]
Meu AGGTGCTTTCAGAGG-AGCTTTTCAGTCGGATGTTTACAGCGGCA--GTAGTGTGTGTAAACA [4530]
Oan AGGTGCC-GAAGG-AGCTTTTCAGTCGGATGTTTACAGCGGCA--GTGGGGGGTGTAAACA [4921]
Aca CAAGGCTCAAAGG-GGCTTTTCAGTCGGATGTTTACAGCGGCA--GCAGCGCATGTAAACA [5605]
Pbi CA-GGCTCAAAGA-GGCTTTTCAGTCGGATGTTTACAGCGGCA-----TGTAACA [5667]
Cpi AGGTGCTAGAAGGGAGCTTTTCAGTCGGATGTTTACAGCGGCA--GTAGCATGTGTAAACA [6015]
Cmy AGGTGCTAGAAGGGAGCTTTTCAGTCGGATGTTTACAGCGGCA--GTAGCATGTGTAAACA [5762]
Psi AGGTGTTAGAAGGGAGCTTTTCAGTCGGATGTTTACAGCGGCA--GTAGCATGTGTAAACA [5431]
Asp AGGTGTTAGAAGGGAGCTTTTCAGTCGGATGTTTACAGCGGCA--GTAGCATGTGTAAACA [5272]
Ami AGGTGCTAGAAGG-AGCTTTTCAGTCGGATGTTTACAGCGGCA--GTAGCATGTGTAAACA [5589]
Asi AGGTGCTAGAAGG-AGCTTTTCAGTCGGATGTTTACAGCGGCA--GTAGCATGTGTAAACA [5646]
Tgu AGG-GCTGGAAGG-AGCTTTTCAGTCGGATGTTTACAGCAGCA--GTAGCACGTGTAAACA [4426]
Cli AGGTGCGAGCAGG-AGCTTTTCAGTCGGATGTTTGCAGCAGCA--GTAGCACGTGTAAACA [5443]
Gga AGGTGTCAGCGGG-GGCTTTTCAGTCGGATGTTTACAGCTGCA--GTAGCACGTGTAAACA [4942]
Xtr AAATAATGATAGT-AGCTTTTCAGTCGGATGTTTACAGCTGCT--GCAGTGATTGTAAACA [5499]
Lch -----ACAGACAATGTAAACA [5779]
Dre GCACA-TGATGG--AGCTTTTCAGTCGGATGTTTGCAGCAGCC--TCAGGGAGTGTAAACA [5784]

Hsa TCCTACACTCTCAGCTGTGAGCTCAAGGTG-GCTGGGAGAGGGTGTGTTTACTCCTTC--T [5730]
Mmu TCCTACACTCTCAGCTGTGAGCTCAAGGTG-GCTGGGAGAGGGTGTGTTTACTCCTTC--T [5732]
Mdo TCCTACACTCTCAGCTGTGAGCTCAAGGTG-GCTGGGAGAGGGCTGTGTTTACTCCTTC--T [5419]
Meu TCCTACACTCTCAGCTGTGAGCTCAAGGTG-GCTGGGAGAGGGCTGTGTTTACTCCTTC--T [4587]
Oan TCCTACACTCTCAGCTGTCAAGTCAAGGAG-GCTGGGAGAGGGTGTGTTTACTCCTTC--T [4978]
Aca TCCTACACTCTCAGCTGTGAATTTGTGGTG-GCTGGGAGAAGGTGTGTTTACACCTTC--T [5662]
Pbi TCCTACACTCTCAGCTGTGACTTTGTGGTG-GCTGGGAGAAGGTGTGTTTACGCCTCC--T [5724]
Cpi TCCTACACTCTCAGCTGTGGACTCAAGGTA-GCTGGGAGAGGGTGTGTTTACTCCTTC--T [6072]
Cmy TCCTACACTCTCAGCTGTGGACTTAAGGTG-GCTGGGAGAGGGTGTGTTTACTCCTTC--T [5819]
Psi TCCTACACTCTCAGCTGTGGACTCAAGGTG-GCTGGGAGAGGGTGTGTTTACTCCTTC--T [5488]
Asp TCCTACACTCTCAGCTGTGGACTCAAGGTG-GCTGGGAGAGGGTGTGTTTACTCCTTC--T [5329]
Ami TCCTACACTCTCAGCTGTGAACCTCAAGGTG-GCTGGGAGAGGGTGTGTTTACGCCTTC--T [5646]
Asi TCCTACACTCTCAGCTGTGAACCTCAAGGTG-GCTGGGAGAGGGTGTGTTTACGCCTTC--T [5703]

Tgu TCCTACACTCTCAGCTGTGAACTCGAGGTG-GCTGGGAGAGGATTGTTTACGCCTTC--T [4483]
Cli TCCTACACTCTCAGCTGTGAACT-GAGGTG-GCTGGGAGAGGATTGTTTACTCCTTC--C [5499]
Gga TCCTACACTCTCAGCTGTGAACTCGAGGTG-GCTGGGAGAGGATTGTTTACGCCTTC--T [4999]
Xtr TCCTACACTCTCAGCTGTGAACTAAGGTG-GCTGGGAGAGGATTGTTTACTCCCCC--T [5556]
Lch TCCTACACTCTCAGCTGTGGCAAGTAAAGGAGCTGGGAGAAGGATGTTTACGCCTTC--T [5837]
Dre TCCTACACTCTCAGCTGGAGCGCAGCCGAG-GCCGGGAGTGGGATGTTTGCCTCTC--C [5841]

Hsa GTTGTGTGTAACATCCCCGACTGGAAGCTGTAA---GACACAGCTAAGCTTTTCAGTCAGA [5787]
Mmu GTGTCTGTAAACATCCCCGACTGGAAGCTGTAA---GCCACAGCCAAGCTTTTCAGTCAGA [5789]
Mdo GTTGTGTGTAACATCCCCGACTGGAAGCTGTAA---GACACAGCCAAGCTTTTCAGTCAGA [5476]
Meu GTCGTTGTAAACATCCCCGACTGGAAGCTGTAA---GACACAGCCAAGCTTTTCAGTCAGA [4644]
Oan GTGGCTGTAAACATCCCCGACTGGAAGCTGTAA---AATACCTTCAAGCTTTTCAGTCAGA [5035]
Aca GTTGTGTGTAACATCCCCGACTGGAAGCTGTAA-----ATTTTCAGCTTTTCAGTCAGA [5714]
Pbi GTTGTGTGTAACATCCCCGACTGGAAGCTGGAA-----AATGTAGCTTTTCAGTCCGA [5776]
Cpi GTTGTGTGTAACATCCCCGACTGGAAGCTGTAA---GAGAAATTTCTAGCTTTTCAGTCAGA [6129]
Cmy GTTGTGTGTAACATCCCCGACTGGAAGCTGTAA---GAGAAATTTCTAGCTTTTCAGTCAGA [5876]
Psi GTTGTGTGTAACATCCCCGACTGGAAGCTGTAA---GACACATTTCTAGCTTTTCAGTCAGA [5545]
Asp GTTGTGTGTAACATCCCCGACTGGAAGCTGTAA---GACAAATTTCTAGCTTTTCAGTCAGA [5386]
Ami GTTGTGTGTAACATCCCCGACTGGAAGCTGTAA---GAGAAATTTCTAGCTTTTCAGTCAGA [5703]
Asi GTTGTGTGTAACATCCCCGACTGGAAGCTGTAA---GAGAAATTTCTAGCTTTTCAGTCAGA [5760]
Tgu GTTGTGTGTAACATCCCCGACTGGAAGCTGTAC-----CTGCTCCAGCTTTTCAGTCAGA [4537]
Cli GGTGCTGTAAACATCCCCGACTGGAAGCTGTTTC-----CCGTCCAGCTTTTCAGTCAGA [5552]
Gga GTTGTGTGTAACATCCCCGACTGGAAGCTGTAG-----CAGCTTGAGCTTTTCAGTCAGA [5053]
Xtr GTCGCTGTAAACATCCCCGACTGGAAGCTGTGAG--GCTGCATTTGAGCTTTTCAGTCTGG [5614]
Lch GTTGTGTGTAACATCCCCGACTGGAAGCTGTAAA--TCATGACGACAGCTTTTCAGTCAGA [5895]
Dre ATGCCTGTAAACATCCCCGACTGGAAGCTGTGCTACGCGGAAAACGAGCTTTTCAGTTGGA [5901]

Hsa TGTTTTGCTGCTACC--TCAGTTCATGTAAACATCCTACACTCAGCTGTAATACA-TGGAT [5844]
Mmu TGTTTTGCTGCTACT--TCAGTTCATGTAAACATCCTACACTCAGCTGTCATACA-TGCGT [5846]
Mdo TGTTTTGCTGCTACC--CCAGTTCATGTAAACATCCTACACTCAGCTGTAACACA-TGGAT [5533]
Meu TGTTTTGCTGCTACC--CCAGTTCATGTAAACATCCTACACTCAGCTGTAACACA-TGA-T [4700]
Oan TGTTTTGCTACCCT--CGAGTTCATGTAAACATCCTACACTCAGCTGTGACCCA-CCCAG [5092]
Aca TGTTTTGCTGCCACC--TTAGTTCATGTAAACATCCTACACTCAGCTGTATCACA-TGAAA [5771]
Pbi TGTTTTGCTGCCGCC--TTAGTTCATGTAAACATCCTACACTCAGCTTTATCACA-TGAAA [5833]
Cpi TGTTTTGCTGCATCC--TTAGTTCATGTAAACATCCTACACTCAGCTATAAAAACA-TAGAA [6186]
Cmy TGTTTTGCTGCATCC--TTAGTTCATGTAAACATCCTACACTCAGCTGTAAAACA-TGGAA [5933]
Psi TGTTTTGCTGCATCC--TTAGTTCATGTAAACATCCTACACTCAGCTATAACACA-TGAAA [5602]
Asp TGTTTTGCTGCATCC--TTAGTTCATGTAAACATCCTACACTCAGCTATAACACA-TGAAA [5443]
Ami TGTTTTGCTGCCACT--TTAGTTCATGTAAACATCCTACACTCAGCTATAACAAC-TGGAA [5760]
Asi TGTTTTGCTGCCACT--TTAGTTCATGTAAACATCCTACACTCAGCTATAACAAC-TGGAA [5817]
Tgu TGTTTTGCTGCACCT--TTAGTTCCTGTAAACATCCTACACTCAGCTATTATAAAG-TGGTG [4594]
Cli TGTTTTGCTGCACCT--TTAGTTCCTGTAAACATCCTACACTCAGCTATAACAAG-TGGTG [5609]
Gga TGTTTTGCTGCACCT--TTAGTTCCTGTAAACATCCTACACTCAGCTATAACAAG-TGGTA [5110]
Xtr TGTTTTGCTGCTACC--TTAGTCTATGTAAACATCCTACACTCAGCTCGTATGTA-TAACC [5671]
Lch TGTTTTGCTGAGTCT--CCAGTCCATGTAAACATCCTACACTCAGCTGTAACACA-GGGAA [5952]
Dre TGTTTTGCTGTCATC--GTAGTCGCTGTAAACATCCTACACTCAGCTGTGAGCTGCAGACG [5959]

Hsa TGGCTGGGAGGTGGATGTTTACTTTCAGC--CTTGGAAGTGGAGAGGAGGCAAGATGCTGG [5902]
Mmu TGGCTGGGATGTGGATGTTTACGTCAGC--CTCGGAAGTGGAGAGGAGGCAAGATGCTGG [5904]
Mdo CGGCTGGGAGGTGGATGTTTACTTTCAGC--TTCAGAGCTGGAGAGGAGGCAAGATGTTGG [5591]
Meu TGGCTGGGAGGTGGATGTTTACTTTCAGC--TTCAGAGCTGGAGAGGAGGCAAGATGTTGG [4758]
Oan CGGCTGGGAGGGGGATGTTTGTCTTCAAC--CTCAGAGCTGGAGAGAAGGCAAGATGTTGG [5150]
Aca TGGCTGGGAGATGAATGTTTACTTTCAGC--TTCAGAGCTGGAGCGGAGGCAAGATGTTGG [5829]
Pbi TGGCTGGGAGATGGAAGTTTACTTTCAGC--TTGAGAGCTGGAGAGGAGGCAAGATGTTGG [5891]
Cpi CGGCTGGGAGGTGGATGTTTACTTTCAGC--ATCAGACTTTGAGGGGAGGCAAGATGTTGG [6244]
Cmy CGGCTGGGAGGTGGATGTTTACTTTCAGC--ATCAGACTTTGAGGGGAGGCAAGATGTTGG [5991]
Psi CGGCTGGGAGGTGGATGTTTACTTTCAGC--CTCAGACTTTGAGGGGAGGCAAGATGTTGG [5660]

Asp CGGCTGGGAGATGGATGTTTACTTCAAC--CTCAGACGTGGAGGGGAGGCAAGATGTTGG [5501]
Ami CGGCTGGGAGGTGGATGTTTACTTCAAC--TTCAGAGCTAGAGAGGAGGCAAGATGTTGG [5818]
Asi CGGCTGGGAGGTGGATGTTTACTTCAAC--TTCAGAGCTAGAGAGGAGGCAAGATGTTGG [5875]
Tgu GGGCTGGGGGTGGGTGTTTACTTCAAC--TGCAGAGCTGGAGAGGAGGCAAGATGTTGG [4652]
Cli GGGCTGGGGGTAGATGTTTACATCAAC--TGCAGAGCTGGAGGGGAGGCAAGATGTTGG [5667]
Gga GGGCTGGGGGTGGATGTTTACTTCAAC--TGCAGAGCTGGAGGGGAGGCAAGATGTTGG [5168]
Xtr TGACTGGGTGGGGGTGTTTGCCTCGAC--CCTAGTTCTAGAGAGGAGGCAAGATGTTGG [5729]
Lch AGACTGGGAGAAGGGTGTCTTACTTCGGC--CTCAGAGCTGGAGAGGAGGCAAGATGTTGG [6010]
Dre AGGCTGGGCGGAGGGTGTCTTGTGTGAC--TCTGGAAGAGAAGAGATGGCAAGATGTTGG [6017]

Hsa CATAGCTGTTGAA--CTGGGAACCTGCTATGCCAACATATTGCCATCTTTTCTGTCTG-- [5958]
Mmu CATAGCTGTTGAA--CTGAGAACCTGCTATGCCAACATATTGCCATCTTTTCTGTCTG-- [5960]
Mdo CATAGCTGTTGAA--CTGAGAACCTGCTATGCCAACATATTGCCATCTTTTCTGTCTA-- [5647]
Meu CATAGCTGTTGAA--CTAAGAACCTGCTATGCCAACATATTGCCATCTTTTCTGTCTA-- [4814]
Oan CATAGCTGTTGAG--TTAAGAACCTGCTATGCCGACATGTTGTCATCTTTTCTGTCTA-- [5206]
Aca CATAGCTGATGAG--TTAAGAACCTGCTATGCCAACATATTGCCCTCTTTTCTGTCTG-- [5885]
Pbi CATAGCTGATGAA--CTGAGAACCTGCTATGCCAACATATTGCCCTCTTTTACCTCTG-- [5947]
Cpi CATAGCTGTTGAC--CTAATAACCTGCTATGCCAACATATTGTCATCTTTTCTGTCTA-- [6300]
Cmy CATAGCTGTTGAC--CTAATAACCTGCTATGCCAACATATTGTCATCTTTTCTGTCTA-- [6047]
Psi CATAGCTGTTGAT--CTAAAAACCTGCTATGCCAACGTAATTGCCATCTTTTCTGTCTA-- [5716]
Asp CATAGCTGTTGAT--CTAAAAACCTGCTATGCCAACGTAATTGCCATCTTTTCTGTCTA-- [5557]
Ami CATAGCTGTTGAC--CTAAGAACCTGCTATGCCAACATCTTGTCTA-- [5874]
Asi CATAGCTGTTGAC--CTAAGAACCTGCTATGCCAACATCTTGTCTA-- [5931]
Tgu CATAGCTGTTGAT--CTAAAAACCTGCTATGCCAACATATTGTCATCTTTTCTGTCTG-- [4708]
Cli CATAGCTGTAGAC--CTAAAAACCTGCTATGCCAACATATTGTCATCTTTTCTGTCTG-- [5723]
Gga CATAGCTGTTAAC--CTAAAAACCTGCTATGCCAACATATTGTCATCTTTTCTGTCTG-- [5224]
Xtr CATAGCTGTTGCA--TCTGAAACCAGTTGTGCCAACCTATTGCCATCTTTTCTGTCTA-- [5785]
Lch CATAGCTGTTGTG--TCAAGAACCTGCTATGCCAATATATTGTCATCTTTTCTGTCTA-- [6066]
Dre CATAGCTGTTAATGTTTATGGGCCTGCTATGCCCTCCATATTGCCATTTTCTGCACTTCC-- [6075]

Hsa AGATATTGCACATTACTAAGTTGCATGTTGTGACGGCCTCAATGCAATTTAGTGTGTGTG [6018]
Mmu AGATATTGCACATTACTAAGTTGCATGTTGTGACGGCCTCAATGCAATTTAGTGTGTGTG [6020]
Mdo AGATATTGCACATTACTAAGTTGCATGTTGTGACGGCTTTAGTGTGCAATTTAGTGTGTGTG [5707]
Meu AGATATTGCACATTACTAAGTTGCATGTTGTGACGGCCTTGGTGTGCAATTTAGTGTGTGTG [4874]
Oan AGATATTGCACATTACTAAGTTGCATGTTGTGCAAGGCCTCTGTGCAATTTAGTGTGTGTGCG [5266]
Aca GGATATTGCACATTACTAAGTTGCATGTTGTGACGGGCTCAGTGTGCAATTTAGTGTGTGTGCG [5945]
Pbi TGATATTGCACATTACTAAGTTGCATGTTGTGACGGCCTCAGTGTGCAATTTAGTGTGTGTG [6007]
Cpi AGATATTGCACATTACTAAGTTGCATGTTGTGACGGCCTCAGTGTGCAATTTAGTGTGTGTGCG [6360]
Cmy AGATATTGCACATTACTAAGTTGCATGTTGTGACGGCCTCAGTGTGCAATTTAGTGTGTGTGCG [6107]
Psi AGATATTGCACATTACTAAGTTGCATGTTGTGACGGCCTCAGTGTGCAATTTAGTGTGTGTGCG [5776]
Asp AGATATTGCACATTACTAAGTTGCATGTTGTGACGGCCTCAGTGTGCAATTTAGTGTGTGTGCG [5617]
Ami ATATATTGCACATTACTAAGTTGCATGTTGTGACGGCCTCAGTGTGCAATTTAGTGTGTGTGCG [5934]
Asi ATATATTGCACATTACTAAGTTGCATGTTGTGACGGCCTCAGTGTGCAATTTAGTGTGTGTGCG [5991]
Tgu AGATATTGCACATTACTAAGTTGCACGTTCTCAGGGCCTCAGTGTGCAATTTAGTGTGTGTGCG [4768]
Cli AGATATTGCACATTACTAAGTTGCATGTTGTGACGGCCTCAGTGTGCAATTTAGTGTGTGTGCG [5783]
Gga AGATATTGCACATTACTAAGTTGCATGTTGTGACGGCCTCAGTGTGCAATTTAGTGTGTGTGCG [5284]
Xtr ----- [5785]
Lch AGATATTGCACATTACCAAGTTGCATGTCATCAGGGCCTCAGTGTGCAACTTAGTGTGTGTGCG [6126]
Dre ----- [6075]

Hsa ATATTT--GGCGGGCAGCTGTGGTGCATTTGTAGTTGCATTTGCATGTTCTGGTGGTACCCA [6076]
Mmu ATATTT--GGCGGGCAGCTGTGGTGCATTTGTAGTTGCATTTGCATGTTCTGGCAATACCTG [6078]
Mdo ATATTT--AGCGAGCGGCTGGGGTGCATTTGTAGTTGCATTTGCACGTCGTGTC--CGGGCCG [5764]
Meu ATATTT--TGCGGGCGGCTGGGGTGCATTTGTAGTTGCATTTGCACGTCGTGTC--GGGCCG [4930]
Oan ATATTT--GGTTGGCCACTGTCGTGCATTTGTAGTTGCATTTGCACGTTCCGGCAGTACTGG [5324]
Aca ATATTT--GGGTGGCAGCTGTAGTGCATTTGTAGTTGCATTTGCATGTTCTAGCAGTATTTG [6003]
Pbi ATATTT--GGGTGGCAACTGTAGTGCATTTGTAGTTGCATTTGCATGTTCTGGCAATACTCA [6065]

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Cpi ATATTT--GGGGGGCAGCTGTAGTGCATTGTAGTTGCATTGCATGTTCTGGCAGTACTTG [6418]
Cmy ATATTT--GGGGGGCAGCTGTGCGTGCATTGTAGTTGCATTGCACGTTCTGGCCATACTTG [6165]
Psi ATATTT--GGGGGGCAGCTGTAGTGCATTGTAGTTGCATTGCATGTTCTGGCAGTATTTG [5834]
Asp ATATTT--GGGGGGCAGCTGTAGTGCATTGTAGTTGCATTGCATGTTCTGGCAGTATTTG [5675]
Ami ATATTT--GGGTGACCGCTGTAGTGCATTGTAGTTGCATTGCATGTTCTGGTAGTATCTG [5992]
Asi ATATTT--GGGTGACCGCTGTAGTGCATTGTAGTTGCATTGCATGTTCTGGTAGTATCTG [6049]
Tgu ATACTT--GGGTGGCAGCTGTAGTGCATTGTAGTTGCATTGCATGTTGTGGCAGTACTG [4826]
Cli ATACTT--GGGTGGCAGCTGTAGTGCATTGTAGTTGCATTGCATGTTGTGGCAGTAACTG [5841]
Gga ATACTT--GGGTGGCAGCTGTAGTGCATTGTAGTTGCATTGCATGTGCTGGCAGTAACTG [5342]
Xtr -----TTGGGGTACCCCTGGTGCATTGTTGTTGCATTGCATGTCACCTTGGACGTTG [5837]
Lch ATATTT--TGGAGACAGCTGTGGTGCATTGTAGTTGCATTGCATGTTGGAGCTGCAAGTG [6184]
Dre ----- [6075]

Hsa TGCAATGTTTCCACAGTGCATCACAGAGGCCCTGCC--CGGGCGGCCCCGCGGTGCATTGC [6134]
Mmu TGCAATGTTTCCACAGTGCATCACGGAGGCCCTGCC----- [6113]
Mdo TGCAATGTTTCCACAGTGCATCCCAGAGGCCCGCG----- [5799]
Meu TGCAATGTTCCCGCAGTGCATCCCAGAGGCCCGCA----- [4965]
Oan TGCAATGTTCCACAGTGCATTACAGAGACCCGCT--CGGCTGCCGCTGTAGTGCATTGT [5382]
Aca TGCAATGTTTCCCGCAGTGCATACAGAGGCATACC--TGGCAGTTTCGGGGGTGCATTGT [6061]
Pbi TGCAATGTTTCTGCAGTGCAGTTCAGAGGCATGCC--TGGCTGTGTCGGTGGTGCATTGT [6123]
Cpi TGCAATGTTTCTGCAGTGCAGTACAGAGGCACTCT--TGGCCGAGCTGTGGTGCATTGT [6476]
Cmy TGCAATGTTTCTGCAGCGCAGCACAGAGGCACTCT--TGGCCGAGCTGTGGTGCATTGT [6223]
Psi TGCAATGTTTCTGCAGTGCAGTACAGAGGCACTCT----- [5869]
Asp TGCAATGTTTCTGCAGTGCAGTACAGAGGCACTCT----- [5710]
Ami TGCAATGTTTCTGCAGTGCAGTATAGAGGCACTCT--TGGCCTCAGCTGTGGTGCATTGT [6050]
Asi TGCAATGTTTCTGCAGTGCAGTACAGAGGCACTCT--TGGCCTCAGCTGTGGTGCATTGT [6107]
Tgu TGCAATGTTTCTGCAGTGCAGTACAGAGGCACTCT----- [4861]
Cli TGCAATGTTCCCTGCAGTGCAGTACAGAGGCACTCT--CGGCCCTCGCGGGGGTGCATTGT [5899]
Gga TGCAATGTTCCCTGCAGTGCAGTACAGAGGCGCTTT--CGGCCCTCGCGGGGGTGCATTGT [5400]
Xtr TGCAATGTTTCTTCAGTGCAGTATGGTGGTTCAG--TGA CTGCCGCTGTGGTGCATTGT [5895]
Lch TGCAATGTGTCTGCAGTGCAGTACAGAGAATCTCC--TAGCTGCAGCTGTGGTGCATTGT [6242]
Dre ----- [6075]

Hsa TGTTGCATTGCACGTGTGTGAG-GCGGGTGCAGTGCCTCGGCAGTGCAGCCCGGAGCCGG [6193]
Mmu ----- [6113]
Mdo ----- [5799]
Meu ----- [4965]
Oan AGTTGCATTGCATGTGTCTGAC-CAGGGTGCATGCCCCCTGCAGTGCATACAGAGCCAG [5441]
Aca AGTTGCATTGCATGTGT-GGCCAAGCTGTGCAATGCCCCCTCCAGTGCAGCCCTGAGGCCG [6120]
Pbi AGTTGCATTGCACGTGCAGGTGAAGATGTGCAATGCCCCCTCCAGTGCAGCCCTGGGGCAG [6183]
Cpi AGTTGCATTGCATGTGTGAGAACAGGTGTGCAATGCCCCCTGCAGTGCAGCCAGATGGGG [6536]
Cmy AGTTGCATTGCATGTGTGAGAACAGGTGTGCAATGCCCCCTGCAGTGCAGCCAGATGGGG [6283]
Psi ----- [5869]
Asp ----- [5710]
Ami AGTTGCATTGCATGTGTACAG-AGGTGTGCAATGCCTCTGCAGTGCAGCCAGAGGAGG [6109]
Asi AGTTGCATTGCATGTGTACAG-AGGTGTGCAATGCCTCTGCAGTGCAGCCAGAGGAGG [6166]
Tgu ----- [4861]
Cli AGTTGCATTGCATGTGTGACTGGGAGTGCATGCCCCCTGCCATGCAGCCCGGCGGGGG [5959]
Gga AGTTGCATTGCATGTGTGACTGGGAGTGCATGCCCCCTGCCATGCAGCCCGGCGGGGG [5460]
Xtr AGTTGCATTGCATGTGATATCAGCGGTGTGCAATGTGCCCTGCAGTGCACACAGAGGTAG [5955]
Lch AGTTGCATTGCATGTGTCTGTGAGGTTGTGCAATGCACCTGCAATGCAATACGGAGTCTG [6302]
Dre ----- [6075]

Hsa CCCC--GTGTTTCTTTGGCAGTGTCTTAGCTGGTTGTTGTGAGCAATAGT-AAGGAAGCA [6250]
Mmu -----GTAATTCTTTGGCAGTGTCTTAGCTGGTTGTTGTGAGTATAGCTAAGGAAGCA [6167]
Mdo -----GTGTTTCTTTGGCAGTGTCTTAGCTGGTTGTTGTGAGTAATAGATAAGGAAGCA [5853]
Meu -----GTGTTTCTTTGGCAGTGTCTTAGCTGGTTGTTGTGAGTAATACATGAGGAAGCA [5019]
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Oan CCCC----- [5445]
Aca TCCT--GTGTTTCTTTGGCAGTGTCTTAGCTGGTTGTTGTGCGCAGTGATTGAGGAAGCA [6178]
Pbi CATC--GTGCTTCTTTGGCAGTGTCTTAGCTGGTTGTTGTGTGCGATGATTGAAGCAGCA [6241]
Cpi CTTC--GTGTTTCTTTGGCAGTGTCTTAGCTGGTTGTTGTGAGCAATAATCAAGGAAGCA [6594]
Cmy CTTC--GTGTTTCTTTGGCAGTGTCTTAGCTGGTTGTTGTGAGCAATAATCAAGGAAGCA [6341]
Psi -----GTGTTTCTTTGGCAGTGTCTTAGCTGGTTGTTGTGAGCAATAATCAAGGAAGCA [5923]
Asp -----GTGTTTCTTTGGCAGTGTCTTAGCTGGTTGTTGTGAGCAATAATCAAGGAAGCA [5764]
Ami CTCC--GTGTTTCTTTGGCAGTGTCTTAGCTGGTTGTTGTGAACAATAGACAAGGAAGCA [6167]
Asi CTCC--GTGTTTCTTTGGCAGTGTCTTAGCTGGTTGTTGTGAACAATAGACAAGGAAGCA [6224]
Tgu -----GTGTTTCTTTGGCAGTGTCTTAGCTGGTTGTTGTGAGCAATAGTCAAGGAAGCA [4915]
Cli CCCC--GTGTTTCTTTGGCAGTGTCTTAGCTGGTTGTTGTGAGCAATAGTCAAGGAAGCA [6017]
Gga TCCC--GTGTTTCTTTGGCAGTGTCTTAGCTGGTTGTTGTGAGCAATAGTAAAGGAAGCA [5518]
Xtr TGCC--GTGTTTCTTTGGCAGTGTCTTAGCTGGTTGTTGTGGCACGTTATAGAAGTAGCA [6013]
Lch GCTA--GTGTTTCTTTGGCAGTGTCTTAGCTGGTTGTTGTGACAAGTAATAGAAAAGCA [6360]
Dre -----GTGGTTCTCTGGCAGTGTCTTAGCTGGTTGTTGTGTGGAGTGAG-AACGAAGCA [6128]

Hsa ATCAGCAAGTATACTGCCCTAGAAGTG--GCTCGGTTTGTAGGCAGTGTGATTTAGCTGAT [6308]
Mmu ATCAGCAAGTATACTGCCCTAGAAGTG--GCTCGGTTTGTAGGCAGTGTGATTTAGCTGAT [6225]
Mdo ATCAGCAAGTATACTGCCCTAGAAGTG--GCTCGGTTTGTAGGCAGTGTAGTTAGCTGAT [5911]
Meu ATCAGCAAGTATACTGCCCTAGAAGTG--GCTCGGTTTGTAGGCAGTGTAGTTAGCTGAT [5077]
Oan -----GCTCGGTTTGTAGGCAGTGTAGTTAGCTGAT [5476]
Aca ATCAGCAAGAATACTGCCCCAGAAGTG--GCTTGGTTTGTAGGCAGTGTAGTTAGCTGAT [6236]
Pbi ATCAGCAAGCATACTGCTGCAGAAGTA--GTTTGGTTTGTAGGCAGTGTAGTTAGCTGAT [6299]
Cpi ATCAGCAAGTATACTGCCCTAGAAGTG--GTTTGGTTTGTAGGCAGTGTAGTTAGCTGAT [6652]
Cmy ATCAGCAAGTATACTGCCCTAGAAGTG--GTTTGGTTTGTAGGCAGTGTAGTTAGCTGAT [6399]
Psi ATCAGCAAGTATACTGCCCTAGAAGTG--GTTTGGTTTGTAGGCAGTGTAGTTAGCTGAT [5981]
Asp ATCAGCAAGTATACTGCCCTAGAAGTG--GTTTGGTTTGTAGGCAGTGTAGTTAGCTGAT [5822]
Ami ATCAGCAAGTATACTGCCCTAGAAGTG--GTTTGGTTTGTAGGCAGTGTAGTTAGCTGAT [6225]
Asi ATCAGCAAGTATACTGCCCTAGAAGTG--GTTTGGTTTGTAGGCAGTGTAGTTAGCTGAT [6282]
Tgu ATCAGCAAGTATACTGCCCTAGAAGTG--GCTTGGTTTGCAGGCAGTGTAGTTAGCTGAT [4973]
Cli ATCAGCAAGTATACTGCCCTAGAAGTG--GCTTGGTTTGTAGGCAGTGTAGTTAGCTGAT [6075]
Gga ATCAGCAAGTATACTGCCCTAGAAGTG--GCTTGGTTTGCAGGCAGTGTAGTTAGCTGAT [5576]
Xtr ATCAGCAAATATACTGCCCTAGAAGTT--GTTGGGTTTTCAGGCAGTGTAGTTAGCTGAT [6071]
Lch ATCAGCAAGTATACTGCTGCAGAAATG--GCTTAGTTTGTAGGCAGTGTAGTTAGCTGAT [6418]
Dre ATCAGCAAGTATACTGCCCGAGAAACT--GGTTGGTCTGTAGGCAGTGTGTTAGCTGAT [6186]

Hsa TGTACTG---TGGTGGTTACAATCACTAACTCCACTGCCATCAAAAACA--GTCTAGTTAC [6363]
Mmu TGTAGTG---CGGTGCTGACAATCACTAACTCCACTGCCATCAAAAACA--GTCTAGTTAC [6280]
Mdo TGTATTC---TACTGCCTACAATCACTAACTCCACTGCCATCAAAAACA--GTCTAGTTAC [5966]
Meu TGTATTC---TACTGCCTGCAATCACTAACTCCACTGCCATCAAAAACA----- [5122]
Oan TGGACCA---TCCCGCCGCAATCACTAACTCCACTGCCATCAAAAACA--GTCTAGTTAC [5531]
Aca TGTGAGG---TTTCTTTGGCAATCACTAGCTTTACTGTCATCAAAAACA--GCCTGGTTGC [6291]
Pbi TGTGTG---TCTCCCCAGCAATCACTAGCTTCACTGTCATCAAAAACA--GCCTTGTAC [6353]
Cpi TGTATCC---ATCTCTTTGCAATCACTAACTTTACTGCCATCAAAAACA--GCCTAGTTAC [6707]
Cmy TGTATCC---ATCTCTTTGCAATCACTAACTTTACTGCCATCAAAAACA--GCCTAGTTAC [6454]
Psi TGTATCC---ATCTATTTGCAATCACTAACTTTACTGCCATCAAAAACA--GCCTAGTTAC [6036]
Asp TGTATCC---ATCTATTTGCAATCACTAACTTTACTGCCATCAAAAACA--GCCTAGTTAC [5877]
Ami TGTGTCA---GTCCCTTTGGCAATCACTAACTTCACTGCCATCAAAAACA--GCCTAGTTGC [6280]
Asi TGTGTCA---GTCCCTTTGGCAATCACTAACTTCACTGCCATCAAAAACA--GCCTAGTTGC [6337]
Tgu TGTCTGC---AGAATTTCCACAATCACTAACTTCACTGCCACCAAAAACA--GCCTGGTTGC [5028]
Cli TGTAACC---ACTGCTCCGCAATCACTACACTCACTGCCATCAAAAACA--GCCTAGTTAC [6130]
Gga TGTACCC---AGCGCCCCACAATCACTAAATCACTGCCATCAAAAACA--GCCTGGTTAC [5631]
Xtr TGTGTTAACATAAGACTTTGCAATCACTAGCTAAACTACCAGCAAAAAC----- [6119]
Lch TGTGTCC---CTGCAGTCTGCAATCACTAACCACACTACCATCAAAAACA--GCCTAGTTAC [6474]
Dre TGTTTCA---TATGAACTATAATCACTAACCATACTGCCAACACAACA--GTGTGGTAC [6241]

Hsa TAGGCAGTGTAGTTAGCTGATTGCTAAT---AGTACCAATCACTAACCACACGGCCAGGT [6420]

Mmu TAGGCAGTGTAGTTAGCTGATTGCTAAT---AGTACCAATCACTAACCACACAGCCAGGT [6337]
Mdo TAGGCAGTGTAGTTAGCTGATTGCTAGCAGTAGTACCAATCACTAACCACACAGCCAAGT [6026]
Meu ----- [5122]
Oan TAGGCAGTGTAGTTAGCTGATTGCTATT---AACACCAATCACTAGCCACACAGCCAGGT [5588]
Aca CAGGCAGTGTAGTTAGCTGATTGACGA----GGCAACAGTCACTAACAACACGGCCAGGT [6347]
Pbi CAGGCAGTGTAGTTAGCTGATTGACAAA---GGCAACAGTCGCTAACAACACAGCCAAGT [6410]
Cpi CAGGCAGTGTAGTTAGCTGATTGCTAAA---GGTA-CAATCACTAACCACACAGCCAGGT [6763]
Cmy CAGGCAGTGTAGTTAGCTGATTGCTAAA---GGTAACAATCACTAACCACACAGCCAGGT [6511]
Psi CAGGCAGTGTAGTTAGCTGATTGCCAAA---GGTAACAATCACTAACCACACAGCCAGGT [6093]
Asp CAGGCAGTGTAGTTAGCTGATTGCCAAA---GGTAACAATCACTAACCACACAGCCAGGT [5934]
Ami TAGGCAGTGTAGTTAGCTGATTGCAAAA---GGCAACAATCACTAACCACACAGCCAGGT [6337]
Asi TAGGCAGTGTAGTTAGCTGATTGCAAAA---GGCAACAATCACTAACCACACAGCCAGGT [6394]
Tgu CAGGCAGTGTAGTTAGCTGATTGCCCAA---AGCAACAATCACTAGCCACACGGCCAGGT [5085]
Cli TAGGCAGTGTAGTTAGCTGATTGCCAAA---AGTACCAATCACTAGCCACACAGCCAGGT [6187]
Gga CAGGCAGTGTAGTTAGCTGATTGCCACC---AGGACCAATCACTAACCACACAGCCAGGT [5688]
Xtr ----- [6119]
Lch TAGGCAGTGTGCTTAGCTGATTGGTAAAC---AGCAGCAATCACTAACCACACAGCCAGGT [6531]
Dre CAGGCAGTGCAGTTAGTTGATTACAATCCA-TAAAGTAATCACTAACCTCACTACCAGGT [6300]

Hsa AAAA--TGTGATGAGCTGGCAGTGTATTGTTAGCTGGTTGAATATGTGAATGGCATCGGC [6478]
Mmu AAAA--TGTGATGGCTTGGCAGTGTATTGTTAGCTGGTTGAGTATGTGAGCGGCACCAGC [6395]
Mdo AAAC--TGTGATGGGATGGCAGTGTATTGTTAGCTGGTTGACTATCTGAACG-TGCCAGC [6083]
Meu -----TGTGATGGGATGGCAGTGTATTGTTAGCTGGTTGAATATCTGAAT-GTACCAGC [5175]
Oan AAAA--TGCGATAGTTTGGCAGTGT-TTGTAGCTGGTTGAATATTTAAATGGCACCAGC [5645]
Aca GAAA--TGTGGTGGAAATGGCAGTGTATTGTTAGCTGGATGAGTATCTCAATGCCCCCAGC [6405]
Pbi GAAA--TGTAGTGGAAATGGCAGTGTATTGTTAGCTGGATGGATATCCAAATGGCACCAGC [6468]
Cpi AAAA--TGTGCTAGGAAGGCAGTGTATTGTTAGCTGGT----TGAAAATCTGACAGCAGC [6817]
Cmy AAAA--TGTGCTAAGAAGGCAGTGTATTGTTAGCTGGT----TGAAAATCCGACACCAGC [6565]
Psi AAAA--TGTGCTGGGAAGGCAGTGTATTGTTAGCTGGT----TGAAACATCTGACACCAGC [6147]
Asp AAAA--TGTGCTGGGAAGGCAGTGTATTGTTAGCTGGT----TGAAACATCTGACACCAGC [5988]
Ami AAAA--TGTGATGGGAAGGCAGTGTACTGTTAGCTGGTG---TCAGTTTTTTTCAACCAGC [6392]
Asi AAAA--TGTGGTGGGAAGGCAGTGTACTGTTAGCTGGTT---GAAAAAACTGACACCAGC [6449]
Tgu AAAA--TGTGATGGGATGGCAGTGTG-TGTTGGCTGCTTG---AAGTTCTGACAGCAGC [5138]
Cli AAAA--TGGGATGGGATGGCAGTGTG-TGTTAGCTGGTTG---AAATTCT-GACATCAGC [6240]
Gga AAAA--TGCGGTGGGGTGGCAGTGTG-TGTTAGCTGGTTG---AAACTCTTGACATCAGC [5742]
Xtr -----TTTAGAAGGAAGGCAGTGTAAATGTTAGCTGGTTG-GAAAATAGCAGACACTGGT [6172]
Lch AAAC----- [6535]
Dre GAAG----- [6304]

Hsa TAACATGCAACTGCTGTCTTATT--GAATCAGGTAGGCAGTGTATTGTTAGCTGGCTGC- [6535]
Mmu TAACATGCGACTGCTCTCCTATT--GAATCAGGTAGGCAGTGTATTGTTAGCTGGCTGC- [6452]
Mdo TAACATGCAACTGCTATCCCATTT----- [6106]
Meu TACTATGCAACTGCTGTCTTATT--GGGTCAAGTAGGCAGTGTGCTGTAAGCTGGCTGCT [5233]
Oan TGACAGACAGCTGCTTTCTTATT--GGGTCAAGTAGGCAGTGTGATGTTTGCTGGCTGCT [5703]
Aca TGACATTCAGCTGCCAATCTACG----- [6428]
Pbi TGACATTCAGCTGCCAGCCTACG--GTGACTGATAGGCAGTGTAGAATTAGCTGGCTGCT [6526]
Cpi TAACCTACATCTGCTATCTTATT--GTGTCTGGTAGGCAGTGTACTGTTAGCTGGCTGCT [6875]
Cmy TAACCTACACCTGCTATCTTATT--GTGTCTGGTAGGCAGTGTACTGTTAGCTGGCTGCT [6623]
Psi TAACCTACAGCTGCTATCTTATT--GTGTCTGGTAGGCAGTGTACTGTTAGCTGGCTGCT [6205]
Asp TAACCTACAGCTGCTATCTTATT--GTGTCTGGTAGGCAGTGTACTGTTAGCTGGCTGCT [6046]
Ami TAACATGCAGCTGCTATCCTACT--GTGTCTGGTAGGCAGTGTACTGTTAGCTGGCTGCT [6450]
Asi TAACATGCAGCTGCTATCCTACT--GTGTCTGGTAGGCAGTGTACTGTTAGCTGGCTGCT [6507]
Tgu TAACATGCTGCTGCTCTCTCTTC----- [5161]
Cli TAACATGCAGTTGCTATCCTTTT--GTGTCTGGTAGGCAGTGTACTGCTAGCTGGCTGCC [6298]
Gga TAACACGCAGTTGCTAACCTGCT--GTGGCTGGAAGGCAGTGTGCTGTTAGC-GGCTGCT [5799]
Xtr TAACCTACACCTGCCCCCTTCT--GCTTTGGGTAGGCAGTGTAGTTTGTAGCTGGCTGCT [6230]
Lch -----GCATCAAGTAGGCAGTGTACTGTTAGCTGGCTGCT [6570]

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Dre ----- [ 6304 ]

Hsa TTGGGTCAAG--TCAGCAGCCACAACCTACCCTGCCACTTGCTT--ATGTGTCAGGTAGGC [ 6591 ]
Mmu TTGGGTCAAG--TCAGCAGCCACAACCTACCCTGCCACTTGCTT--GTGTGTCAGGCAGGC [ 6508 ]
Mdo ----- [ 6106 ]
Meu TGGGTTTCAGT--TCAGCAGTCACAACCACCCTGCCACTTGCTC----- [ 5274 ]
Oan TTGAATCGAT--TCAGCAGCCACCGTTACTCTGCCACTTGCTA--ATGTGCCGGTTTGGC [ 5759 ]
Aca -----CTGTGTCGCTTTGGC [ 6443 ]
Pbi TTGT-TTAATT-CTAGCAGTCGCTACCACACTGCTATCTGCTG--GTGTGTCACTTTGGC [ 6582 ]
Cpi TTGTGTGAAT--CTAGCAGTCTCTACTACACTGTCACCTGCTG--ATGTGACAGTTTGGC [ 6931 ]
Cmy TTGTGTGAAT--CTAGCAGTCTCTACTACACTGTCACCTGCTG--ATGTGACAGTTTGGC [ 6679 ]
Psi TTGTGTGGAT--CTAGCAGTCTCTACTACACTGTCACCAGCTG--ATGTGACAGTTTGGC [ 6261 ]
Asp TTGTGTGAAT--CTAGCAGTCTCTACTACACTGTCACCAGCTG--ATGTGACAGTTTGGC [ 6102 ]
Ami TTGTGTGAAT--CTAGCAGTCGCTACTGCACTGTCAACAGCTG--ATGTTTCAGTTTGGC [ 6506 ]
Asi TTGTGTGAAT--CTAGCAGTCGCTACTGCACTGTCAACAGCTG--ATGTTTCAGTTTGGC [ 6563 ]
Tgu ----- [ 5161 ]
Cli GTATCTGGAT--GGAGCAGTCACTCCTGCACTGCCACCTGCTG--ATGTAACAGTCTGGC [ 6354 ]
Gga GTGC-TGAAT--GGAGCAGTCACTACCACACTGCCACCTGCTG--ATGTAACAGTCTGGC [ 5854 ]
Xtr TGCTATTAACT-CCAGCAGTCGCTAATACTCTGCCACCGGCAG--TTGGACCAATGAGGC [ 6287 ]
Lch GGGTTTCTGCGGATAGCAGTCGCTACTACTCTGCCACCTGTTG--ATGCTTCAGTTAGGC [ 6628 ]
Dre ----- [ 6304 ]

Hsa AGTGTA-TTGCTAGC-GGCTGTTAA-----TGATTTTAAACAGTTGCTAGTTGCACTCC [ 6642 ]
Mmu AGTGCA-TTGCTAGCTGGCTGTTAGA---ACTTTATCCCAACAGTTGCTAGCTGCACTAC [ 6564 ]
Mdo ----- [ 6106 ]
Meu ----- [ 5274 ]
Oan AGTGCT-TTGCTAGCTGGCTGTTCAA-----TAAATGATTCCAGCAGCTGGTTGCACGCC [ 5813 ]
Aca AGTGCA-CTACTAGCTGGCTGTTGAGATATATTCATTTTTACAGTGGTTAGTTGCACTCC [ 6502 ]
Pbi AGTGCA-GTACTAGCTGGCTGTTTGGATACCTTCTGTGTTACAGCAGCTGGTTGCACTCC [ 6641 ]
Cpi AGTGCC-TTGCTAGCTGGCTGTTGAGAACTTGATATATGAACAGTTGCTAGCTGCACTCC [ 6990 ]
Cmy AGTGCA-TTGCTAGCTGGCTGTTGAGAACTTGATATATGAACAGTTGCTAGCTGCACTCC [ 6738 ]
Psi AGTGCA-CTGCTAGCTGGCTGTTGAAAACCTTTGTATATGAACAGTTGCTAAGTGCACTCC [ 6320 ]
Asp AGTGCA-CTGCTAGCTGGCTGTTGAAAACCTTTGTATATGAACAGTTGCTAAGTGCACTCC [ 6161 ]
Ami AGTGCA-TTGCTAGCTGGCTGTTGTG---TACGTGTGTTAACAGTTGCTAGCTGTACTCC [ 6562 ]
Asi AGTGCA-TTGCTAGCTGGCTGTTGTG---TACGTGTGTTAACAGTTGCTAGCTGTACTCC [ 6619 ]
Tgu ----- [ 5161 ]
Cli AGTGCA--TGTTAGCTGGCTGTTGTG--TCTGATGTGTCAACAGCTGCTAGCTGTGCTCC [ 6410 ]
Gga AGTGCA--TGTTAGCTGGCTGTTGTG--TCTGATGTGTCAACAGCTGCTAGCTGTGCTCC [ 5910 ]
Xtr AGTGCACTTGCTAGCTGGCTGTTGTG--TTCTGGAAGCTTACAGCTGCTAGCTGCACTCC [ 6345 ]
Lch AGTGTA-TTGCTAGCTGGCTGTTGTGTATTTGACAGGTCAACAGCTGCTGGGTACACTCC [ 6687 ]
Dre ----- [ 6304 ]

Hsa TCTCTGTTGC----- [ 6652 ]
Mmu CCTCTGCTGC----- [ 6574 ]
Mdo -----ATGTGGTGATTGGGCAGTGATTT-GTTAGTTAGCTGTTTTTCATAAGT [ 6153 ]
Meu -----GTGTGGTGATTGGGCAGTGATTT-GTTAGTTAGCTGTTTTTCATAAAT [ 5321 ]
Oan CCACTGTCAC----- [ 5823 ]
Aca ACCTGATGC--ATGTGATGGTTTGGCAGTGACT-CTTAGTTAGCTGTTGTATATATTA [ 6559 ]
Pbi AGAGTGCTGC--GTGTGATGGTTTGGCAGTGACTTCTTAGTTAGCTGTTGTACATATTC [ 6699 ]
Cpi ACATTGTTGC--ATGTGCTGATTAGGCAGTGATTT-GTTAGTTAGCTGTTGTTCACATAC [ 7047 ]
Cmy ACATTGTTGC--ATGTGCTGATTAGGCAGTGATTT-GTTAGTTAGCTGTTGTTCACATAC [ 6795 ]
Psi ACATTGTTGC--GTGTAAGTATTAGGCAGTGATTT-GTTAGTTAGCTGTTGCTTACATAC [ 6377 ]
Asp ACATTGTTGC--GTGTAAGTATTAGGCAGTGATTT-GTTAGTTAGCTGTTGCTTACATAC [ 6218 ]
Ami ATATTGTTGC--GTGTGATGATTAGGCAGTGATTT-GTTAGTTAGCTGGCATTCACATAC [ 6619 ]
Asi ATATTGTTGC--GTGTGATGATTAGGCAGTGATTT-GTTAGTTAGCTGGCATTCACATAC [ 6676 ]
Tgu -----GTGTGGTGATTAGGCAGTGATTT-GTTAGTTAGCTGTTTCTTACACAC [ 5208 ]
Cli ACATTGTTTTC--GTGTGGTGATGAGGCAGTGATTT-GTTAGTTAGCTGTTTCTTACACAC [ 6467 ]
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Gga	ACATTGTTTC--GTGTGGTGATTAGGCAGTGTATT-GTTAGTTAGCTGCGCTTCATACAC	[5967]
Xtr	ACATTGTTTC-----	[6355]
Lch	ACATTGCTGC--GTGCGGTGATTAGGCAGTGTAAAT-GTTAGCTGACTGTGATTTACATAT	[6744]
Dre	-----	[6304]
Hsa	-----TTCTACACAGGTTGGGATCGGTTGCAAT	[6680]
Mmu	-----TTCTACACAGGTTGGGATTTGTGCGCAAT	[6602]
Mdo	GCAGCAACTGCATACACTTCCATATTTCCA--TTCTACACAGGTTGGGATCAGTTGCAAT	[6211]
Meu	ACAGCAACTGCATACACTTCCATATTTCCA-----	[5351]
Oan	-----TTCTACGCAGGTTGGGATCAGTTGCAAT	[5851]
Aca	-CAGCAACTAAATACACTTCCATATTTATTG--TTCTACACAGGTTGGGATTTGGTTGCAAT	[6616]
Pbi	-CAGCAACTAAATACACTTCCATATTTATTG--TTCTACACAGGTTGGGATCGGTTGCAAT	[6756]
Cpi	-CAGCAACTAAATACGCTTCCACATTAGCA--TTCTACACAGGTTGGGATCAGTTGCAAT	[7104]
Cmy	-CAGCAACTAAATACACTTCCACATTAGCA--TTCTACACAGGTTGGGATCAGTTGCAAT	[6852]
Psi	-CAGCAACTAAATACACTTCCACATTAGCA--TTCTACACAGGTTGGGATTAGTTGCAAT	[6434]
Asp	-CAGCAACTAAATACACTTCCACATTAGCA--TTCTACACAGGTTGGGATTAGTTGCAAT	[6275]
Ami	-CAGCAACTAAACACACTTCCACATTAGCA--TTCTACACAGGTTGGGATCAGTTGCAAT	[6676]
Asi	-CAGCAACTAAACACACTTCCACATTAGCA--TTCTACACAGGTTGGGATCAGTTGCAAT	[6733]
Tgu	-CAGCAACTGACTACACTGTCAGATTAGCA--TTCTACACAGGTTGGGATCAGTTGCAAT	[5265]
Cli	-CAGCAACTGACTACACTGCCACATCAACA--TTCTACACAGGTTGGGATCAGTTGCAAT	[6524]
Gga	-CAGCAACTAACTACACTGCCACATTAGCA--TTCTACACAGGTTGGGATCAGTTGCAAT	[6024]
Xtr	-----TTCTGTATAGGTTGGGATTTGGTTGCAAT	[6383]
Lch	-GAGCAACTACATGACTATCATATTTGCG--TTCTACGCAGGTTGGGATTAGTTGCAAT	[6801]
Dre	-----TTCTGCGCAGGTTGGGATTTGGTAGCAAT	[6332]
Hsa	GCTGTGTTTT--CTGTATGGTATTGCACTTGTCCCGCCTGTTGAGTTTT--TCATCCCTGG	[6736]
Mmu	GCTGTGTTTTCTCTGTATGGTATTGCACTTGTCCCGCCTGTTGAGTTTT--TCATCCACAG	[6660]
Mdo	GCTGTGTCT--GTCTGTAGTATTGCACTTGTCCCGCCTGTTGAGTTTT--TTCTCTGCGG	[6267]
Meu	-----TTCTCTGCGG	[5361]
Oan	GCTTTGTTTT--GTCTATGGTATTGCACTTGTCCCGCCTGTTGAGGTT--TCCTCCATGG	[5907]
Aca	GCTGTCTATGTGTATGTGGTATTGCACTTGTCCCGCCTGTTGAGGTT--TTCTCCCTGG	[6674]
Pbi	GCTGTGTTG-AGTCTGTGGTATTGCACTTGTCCCGCCTGT-GAGGTT--TCCTCCGTGG	[6812]
Cpi	GCTGTGTGT--GCCTGTAGTATTGCACTTGTCCCGCCTGTTGAGGTT--TTCTCCATGG	[7160]
Cmy	GCTGTGTGT--GTCTGTAGTATTGCACTTGTCCCGCCTGTTGAGGTT--TTCTCCATGG	[6908]
Psi	GCTGTGTGT--GCCTGTAGTATTGCACTTGTCCCGCCTGTTGAGGTT--TTCTCCATGG	[6490]
Asp	GCTGTGTGT--GCTTGTAGTATTGCACTTGTCCCGCCTGTTGAGGTT--TTCTCCATGG	[6331]
Ami	GCTGTGTGT--GTCTGTGGTATTGCACTTGTCCCGCCTGTTGAGGTT-----	[6722]
Asi	GCTGTGTGT--GTCTGTGGTATTGCACTTGTCCCGCCTGTTGAGGTT--TTCTCCATGG	[6789]
Tgu	GCTGTGTGT--GTCTGTGGTATTGCACTTGTCCCGCCTGTTGAGGTT--TTCTCCATGG	[5321]
Cli	GCTGTGTGT--GTCTCTGGTATTGCACTTGTCCCGCCTGTTGAGGTT--TTCTCCATGG	[6580]
Gga	GCTGTGCGT--TTCTGTGGTATTGCACTTGTCCCGCCTGTTGAGGTT--TCCTCCGTGG	[6080]
Xtr	GCTGTACTA-TTTATGTAGTATTGCACTTGTCCCGCCTGTTTAGGAT--TCCTCTGTGG	[6440]
Lch	GCTGTATGT--TGCTGAAGTATTGCACTTGTCCCGCCTGTTGAGGAC--TTCTGTATGG	[6857]
Dre	GCTGTGTGT--TTTGAAGGATTATTGCACTTGTCCCGCCTGTAAAGGAT-----	[6378]
Hsa	GTGGGGATTTGTTGCATTACTTGTGT---TCTATA-TA-AAGTATTGCACTTGTCCCGGC	[6791]
Mmu	GTGGGGATTTGGTGGCATTACTTGTGT---TAGATA-TA-AAGTATTGCACTTGTCCCGGC	[6715]
Mdo	GTGGGGATTTGTTGCATTACTTGTGATCATGTGACTA-TAAGAGTATTGCACTTGTCCCGGC	[6326]
Meu	GTGGGGATTTGTTGCATTACTTGTGATCTTGTGTCTA-TAAGAGTATTGCACTTGTCCCGGC	[5420]
Oan	GTGGGGATTTGTTGCATTACTTGTAGC--TATGTT-TA-GAGTATTGCACTTGTCCCGGC	[5963]
Aca	GTTGGGATTTGTTGCATTACTTGTGGGT-TCCCTG-AA-CAGTATTGCACTTGTCCCGGC	[6731]
Pbi	GTTGGGATTTGTTGTATTACTCGGAGA--TCTCTG-AA-CAGTATTGCACTTGTCCCGGC	[6868]
Cpi	GTGGGGATTTGTTGCATTACTTGTAGC--TATGTG-TA-GAGTATTGCACTTGTCCCGGC	[7216]
Cmy	GTGGGGATTTGTTGCATTACTTGTAGC--TATGTG-TA-GAGTATTGCACTTGTCCCGGC	[6964]
Psi	GTGGGGATTTGTTGCATTACTTGTAGC--TATGTG-CA-GAGTATTGCACTTGTCCCGGC	[6546]
Asp	GTGGGGATTTGTTGCATTACTTGTAGC--TATGTG-CA-GAGTATTGCACTTGTCCCGGC	[6387]
Ami	-----	[6722]

Asi GTGGGGATTTGTTGCATTACTTGTAGC--TATGTT-TA-GAGTATTGCACTTGTCCCAGG [6845]
Tgu GTGGGGATTTGTTGCATTACTTGTAGC--TGTATG-TA-GAGTATTGCACTTGTCCCAGG [5377]
Cli GTGGGGATTTGTTGCATTACTTGTAGC--TGTATG-TA-GAGTATTGCACTTGTCCCAGG [6636]
Gga GTGGGGATTTGTTGCATTACTTGTAGC--TGTGTG-TA-GAGTATTGCACTTGTCCCAGG [6136]
Xtr GTGGGGATTTGTTGCACTACT-GTA----TGTATG-AA-AAGTATTGCACTTGTCCCAGG [6493]
Lch GTGGGGACTTGTTCATTACTTCA-----TATATT-AA-AAGTATTGCACTTGTCCCAGG [6910]
Dre ----- [6378]

Hsa CTGTGGAAG--CAGTGTGAGAGGCGGAGACTTGGGCAATTGCTGGACGCTGCCC-TGGG [6848]
Mmu CTGAGGAAG--CAGTGTGAGAGGCGGAGACTTGGGCAATTGCTGGACGCTGCCC-TGGG [6772]
Mdo CTGTGGAGG--CAGTGTGAGAGGCGGAGACTTGGGCAATTGCTGAACTCTGCCC-TGGG [6383]
Meu CTGTGGAGG----- [5429]
Oan CTGTGGAGG----- [5972]
Aca CTGTGGAGG----- [6740]
Pbi CTGTGGAGG----- [6877]
Cpi CTGTGGAGG----- [7225]
Cmy CTGTGGAGG----- [6973]
Psi CTGTGGAGG----- [6555]
Asp CTGTGGAGG----- [6396]
Ami ----- [6722]
Asi CTGTGGAGG----- [6854]
Tgu CTGTGGAGG----- [5386]
Cli CTGTGGAGG----- [6645]
Gga CTGTGGAGG----- [6145]
Xtr CTGTGGGTG--TGGTGTGACAGGCAGAGACAGGAGCAACTGCTGGTGTGCCTTG-GTAG [6550]
Lch CTGTGGAGG--TAGTGTGAGAGGCGGAGACTTGGGCAATTGCTGGCAATCCCAG-AGGG [6967]
Dre -----CGGCGCTGAGAGGCGGAGACTTGGGCAGCTGCCGTCATTCCCAG-AAGG [6426]

Hsa CATTGCACTTGTCTCGGTCTGACAGTGCCG--GCGGGCGGGAGGGACGGGACGCGGTGCA [6906]
Mmu CATTGCACTTGTCTCGGTCTGACAGTGCCG--GTGGGCGGGAGGGACGGGACGCTGGTGA [6830]
Mdo CATTGCACTTGTCTCGGTCTGACAGTGCTG--GCGGGCGGGAGGGACGGGACGCTGGTGA [6441]
Meu ----- [5429]
Oan ----- [5972]
Aca ----- [6740]
Pbi -----GTTGGGGCAGGGTTGGGGCTGAGTGCA [6905]
Cpi -----GGCAGCAGGAGGGACGGGATGCTGTGCA [7253]
Cmy -----GGCAGCAGGAGGGACGGGATGCTGTGCA [7001]
Psi -----GGTAGCAGGAGGGACGGGATGTTGTGCA [6583]
Asp -----AGGGACGGGATGTTGTGCA [6415]
Ami -----GGCGGGCGGGAGGGCCGGGATGCGGTGCA [6750]
Asi ----- [6854]
Tgu ----- [5386]
Cli -----GGCGGGCGGGAGGGCCGGGATGCGGTGCA [6673]
Gga ----- [6145]
Xtr CATTGCACTTGTCTCGGTCTGACAGTGCTG-----AGAAGGATCGGGATGTTGTGCA [6602]
Lch CATTGCACTTGTCTCGGTCTGACAGTGCTG--CTGACCTGAAGGAACGGGATGTGGTGA [7025]
Dre CATTGCACTTGTCTCGGTCTGACAGTGCCG--CGGGCAGGGAGGTGTGGGATGTTGTGCA [6484]

Hsa GTGTTGTTTTTTTCCCCCGCCAATATTGCACTCGTCCCAGGCTCCGGCCCCCCCC--CTGCT [6964]
Mmu GTGTTGTTCTTTTCCCCCGCCAATATTGCACTCGTCCCAGGCTCCGGCCCCCTC--CTGCT [6888]
Mdo GTGTTGTTCTTTTCCCC--GCCAATATTGCACTCGTCCCAGGCTCCGGCCCCCCCC--CTGCT [6498]
Meu -----CTGCT [5434]
Oan -----CTGCT [5977]
Aca ----- [6740]
Pbi ATGTTGTGATTTTTTCCCACGAATATTGCACTCGTCCCTGGCCCTCCCCTGTTCT--CTGCT [6963]
Cpi GTGTTGTTCTATACCAACCAATATTGCACTCGTCCCAGGCTCCCTGCCTCCCT--CTGCT [7311]
Cmy GTGTTGTTCTATACCAACCAATATTGCACTCGTCCCAGGCTCCCTGCCTCCCT--CTGCT [7059]

Psi GTGTTGTTCTATCCCCTGCCAATATTGCACTCGTCCC GGCTCCTGCCTCCTT--CTGCT [6641]
Asp GTGTTGTTCTATCCCCTGCCAATATTGCACTCGTCCC GGCTCCTGCCTCCTT--CTGCT [6473]
Ami GTGTTGTGC-GTCTCCTACCAATATTGCACT-----CTGCT [6785]
Asi -----CTGCT [6859]
Tgu ----- [5386]
Cli GTGTTGTGCTCTCGCCCACCAATATTGCACTCGTCCC GGCTCCC GCCCGCCG--CCGCC [6731]
Gga -----CCGCC [6150]
Xtr CTGTTGTCTCTTCTCCTGCCAATATTGCACTCGTCCC GGCTCCTGCGTCTCT--CTGTC [6660]
Lch TTGTTGTGCTATCTCCTGCCAATATTGCACTCGTCCC GGCTCCTGG-TCTCC--CTTCT [7082]
Dre GTGTTGTTCAATCTCCC GCCAATATTGCACTCGTCCC GGCTCCTGACCACG--CTTCT [6542]

Hsa TGGCCGATTTTGGCACTAGCACATTTTGTCTGTGTCT--CTCCGCTCTGAGCAATCATG [7022]
Mmu TGGCCGATTTTGGCACTAGCACATTTTGTCTGTGTCT--CTCCGCTGTGAGCAATCATG [6946]
Mdo TGGCCGTTTGGCACTAGCACATTTTGTCTGTGTCT--CTCTGCTCTGAGCAATCATG [6556]
Meu TGGCCGTTTGGCACTAGCACATTTTGTCTGTGTCT--GTCTGCTCTGAGCAATCATG [5492]
Oan TGGCCTCTTTTGGCACTAGCACATTTTGTCTTTTGTCT--CTCTGCTCTGAGCAATCATG [6035]
Aca ----- [6740]
Pbi TGGCCTTTTGGCACTAGCACATTTTGTCTGTCTCT--ATAAACATTGAGCAATTATG [7021]
Cpi TCGCCCGTTTGGCACTAGCACATTTTGTCTTTTGTAT--AACTACTTTGAGCAATTATG [7369]
Cmy TCGCCAGTTTGGCACTAGCACATTTTGTCTTTTGTGTCTATATACTTTGAGCAATTATG [7119]
Psi TTGCCCGTTTGGCACTAGCACATTTTGTCTTTTGTAT--ATCTACTTTGAGCAATTATG [6699]
Asp TTGCCCGTTTGGCACTAGCACATTTTGTCTTTTGTAT--ATATACTTTGAGCAATTATG [6531]
Ami TGGCCATTTTGGCACTAGCACATTTTGTCTTTTGTAC--GTATACTTTGAGCAATTATG [6843]
Asi TGGCCATTTTGGCACTAGCACATTTTGTCTTTTGTAC--GTATACTTTGAGCAATTATG [6917]
Tgu ----- [5386]
Cli CGGCCCGTTTGGCACTAGCACATTTTGTCTTTGATTT--GTAGCTTTTGGCAATTATG [6789]
Gga CGGCCCGCTTTGGCACTAGCACATTTTGTCTTTGCTTT--ATGTGTTTGGCAATTATG [6208]
Xtr TGGCCTGCTTTGGCACTAGCACATTTTGTCTTTTGTAC--ATATACTTTGAGCAATTATG [6718]
Lch TTGCCCGTTTGGCACTAGCACATTTTGTCTTCTGTCT--ATACATATTGAGCAATTATG [7140]
Dre TTGCCTGTTTGGCACTAGCACATTTTGTCTTTTAT--ATATACCTTGGCAATTATG [6600]

Hsa TGCAGTGCCAATATGGGAAAAGCAGG--CTCCCCCGTTTGGCAATGGTAGA ACTCAC [7080]
Mmu TGTAGTGCCAATATGGGAAAAGCGGG--CCACCACCATTTTGGCAATGGTAGA ACTCAC [7004]
Mdo TGTAGTGCCAATATGGGAAAAGCAAG--CTCCTGCTGTGTTTGGCAATGGTAGA ACTCAC [6614]
Meu TGCAGTGCCAATATGGGAGAAGC-----CTCCTGCTGTGTTTGGCAATGGTAGA ACTCAC [5547]
Oan TGTAGTGCCAATATGGGAAAAGCTGG--CTCCTGCTGTGTTTGGCAATGGTAGA ACTCAC [6093]
Aca -----CTCCGGCTGTTTGGCAATGGTAGA ACTCAC [6772]
Pbi TGTAGTGCCAATATGGGAGAAGTCAG--CTCTTGCTGTCTTTGGCAATGGTAGA ACTCAC [7079]
Cpi TGTAGTGCCAATCTGGGAGAAGACGG--CTCTCGCTGTCTTTGGCAATGGTAGA ACTCAC [7427]
Cmy TGTAGTGCCAATATGGGAGGAGACGG--CTCTGGCTGTCTTTGGCAATGGTAGA ACTCAC [7177]
Psi TGTAGTGCCAATATGGGAGAAGATGG--CTCCCCTGTCTTTGGCAATGGTAGA ACTCAC [6757]
Asp TGTAGTGCCAATATGGGAGAAGATGG--CTCCCCTGTCTTTGGCAATGGTAGA ACTCAC [6589]
Ami TGTAGTGCCAATATGGGAGGAGATGG--CTCTCGCTGTCTTTGGCAATGGTAGA ACTCAC [6901]
Asi TGTAGTGCCAATATGGGAGGAGATGG--CTCTCGCTGTCTTTGGCAATGGTAGA ACTCAC [6975]
Tgu ----- [5386]
Cli TGTAGTGCCAATATGGGAGAAGGCGG--CCGGGGCTGCTTTTGGCAATGGTAGA ACTCAC [6847]
Gga TGTAGTGCCAATATGGGAGAAGGCGG--TCCTGGCTGCTTTTGGCAATGGTAGA ACTCAC [6266]
Xtr TGTAGTGCCAATATAGGACTATACAG--CTCTGGCAGTGTTTGGCAATGGTAGA ACTCAC [6776]
Lch TGTAGTGCCAATATGGGAAAAGTTGG--CTCTTGTGGTGTTTGGCAATGGTAGA ACTCAC [7198]
Dre TGTAGTGCCAATATGGGACAAGACAG--CTCTGATGGTATTTGGCAATGGTAGA ACTCAC [6658]

Hsa ACTGGTGAGGTAACAGGATCCGGTGGTTCTAGACTTGCCA ACTATGGGGC-GAGG--ACT [7137]
Mmu ACCGGTAAGGTAATGGGACCCGGTGGTTCTAGACTTGCCA ACTATGGTGT-AAGT--ACT [7061]
Mdo ACTGGTGAGATAAATGGAATCCGGTGGTTCTAGACTTGCCA ACTACGGCTT-GAGA--ACT [6671]
Meu ACTGGTGAGATAACAGAATCCGGTGGTTCTAGACTTGCCA ACTACGGCTT-GAGA--ACT [5604]
Oan ACTGGTGAGGTAATGGGATCCGGTGGTTCTAGACTTGCCA ACTATGGCCC-GAGG--ACT [6150]
Aca ACTGGTGAGGTATCAGGATCCGGTGGTTCTAGACTTGCCA ACTACGGCCC-GAGG----- [6826]

Pbi ACTGGTGAGATATCTGGATCCGGTGGTTCTAGACTTGCCAACCTACCGCCT-GGGG--CGT [7136]
Cpi ACTGGTGAGGTATCAGGATCCGGTGGTTCTAGACTTGCCAACCTACCGCCC-GAGG--ACT [7484]
Cmy ACTGGTGAGGTATCAGGATCCGGTGGTTCTAGACTTGCCAACCTACCGCCC-GAGG--ACT [7234]
Psi ACTGGTGAGGTATCAGGATCCGGTGGTTCTAGACTTGCCAACCTACCGCCC-GAGG--ACT [6814]
Asp ACTGGTGAGGTATCAGGATCCGGTGGTTCTAGACTTGCCAACCTACCGCCC-GAGG----- [6643]
Ami ACTGGTGAGGTATCAGGATCCGGTGGTTCTAGACTTGCCAACCTACCGCCC-GAGG--ACT [6958]
Asi ACTGGTGAGGTATCAGGATCCGGTGGTTCTAGACTTGCCAACCTACCGCCC-GAGG--ACT [7032]
Tgu ----- [5386]
Cli ACTGGTGCGGTAGCAGGATCCGGTGGTTCTAGACTTGCCAACCTACAGCCCCGGGG--ACT [6905]
Gga ACTGGTGCGCTCGCAGGATCCGGTGGTTCTAGACTTGCCAACCTACAGCCCCGGGA--ACT [6324]
Xtr ACTGGTGAGCTATGAAGATCCGGTGGTTCTAGACTTGCCAACCTATGGCCT-GGGA--CCT [6833]
Lch ACTGGTGAGGTAACCTGGATCCGGTGGTTCTAGACTTGCCAACCTACTGCCT-GAAA--ACT [7255]
Dre ACTGGTGAGGTAGTCAGATCCGGTGGTTCTAGACTTGCCAACCTACTACCT-GAGA--ACT [6715]

Hsa CCTGTTCTGTGTATGGCACTGGTAGAATTCCTGTGAACAGTCTCAGTCAGTGAATTACC [7197]
Mmu CCTGTCTGTGTATGGCACTGGTAGAATTCCTGTGAACAGTCTCAGTCAGTGAATTACC [7121]
Mdo CCTGTTCTGTGTATGGCACTGGTAGAATTCCTGTGAAAAACACACTATCAGTGAATTACC [6731]
Meu CCTGTTCTGTGTATGGCACTGGTAGAATTCCTGTGAAAAACACACTATCAGTGAATTACC [5664]
Oan CCTGTTCTGTGTATGGCACTGGTAGAATTCCTGTGAAAAACACACTATCAGTGAATTACC [6210]
Aca ----- [6826]
Pbi CCTGTTCTGTGTATGGCACTGGTAGAATTCCTGTGAAAAACACTCGATCAGTGAATTACC [7196]
Cpi CCTGTTCTGTGTATGGCACTGGTAGAATTCCTGTGAAAAACACTATCAGTGAATTACC [7544]
Cmy CCTGTTCTGTGTATGGCACTGGTAGAATTCCTGTGAAAAACACTATCAGTGAATTACC [7294]
Psi CCTGTTCTGTGTATGGCACTGGTAGAATTCCTGTGAAAAACACTATCAGTGAATTACC [6874]
Asp ----- [6643]
Ami CCTGTTCTGTGTATGGCACTGGTAGAATTCCTGTGAAAAACAGCTATCAGTGAATTACC [7018]
Asi CCTGTTCTGTGTATGGCACTGGTAGAATTCCTGTGAAAAACAGCTATCAGTGAATTACC [7092]
Tgu ----- [5386]
Cli CCTGTTCTGTGTATGGCACTGGTAGAATTCCTGTGCAACCCCGCGGTTCAGTGAATTACC [6965]
Gga CCTGTTCTGTGTATGGCACTGGTAGAATTCCTGTGCAACCCCGCGGTTCAGTGAATTACC [6384]
Xtr CCTGTTCTGTGTATGGCACTGGTAGAATTCCTGTGAAAAACAAAAATCAGTGAATTACC [6893]
Lch CCTGTTCTGTGTATGGCACTGGTAGAATTCCTGTGAAAAACATACTATCAGTGAATTACC [7315]
Dre CCTGTTCTGTGTATGGCACTGGTAGAATTCCTGTGAAAGCACACTATCAGTGAATTACC [6775]

Hsa GAAGGGCCATAAACAGAGCAGAGAC--TGCCCTGGCTCAGTTATCACAGTGCTGATGCTG [7255]
Mmu GAAGGGCCATAAACAGAGCAGAGAC--TGCCCTGGCTCAGTTATCACAGTGCTGATGCTG [7179]
Mdo AAAGGGCCATAAACAGAGCAGAGAA--TGCCCTGGCTCAGTTATCACAGTGCTGATGCTG [6789]
Meu AAAGGGCCATAAACAGAGCAGAGAA----- [5689]
Oan AAAGGGCCATAAACAGAGCAGAGAA--TGCCCTGGCTCAGTTATCACAGTGCTGATGCTG [6268]
Aca -----TGCCCTGGCTCAGTTATCACTGTGCTGATGCTG [6859]
Pbi AACGGGCCATAAACCGGAGCAGAGAA--TGCCCTGGCTCAGTTATCACTGTGCTGATGCTG [7254]
Cpi ATAGGGCCATAAACAGAGCAGAGAA--TGCCCTGGCTCAGTTATCACAGTGCTGATGCTG [7602]
Cmy ATAGGGCCATAAACAGAGCAGAGAA--TGCCCTGGCTCAGTTATCACAGTGCTGATGCTG [7352]
Psi ATAGGGCCATAAACAGAGCAGAGAA--TGCCCTGGCTCAGTTATCACAGTGCTGATGCTG [6932]
Asp -----TGCCCTGGCTCAGTTATCACAGTGCTGATGCTG [6676]
Ami ATAGGGCCATAAACAGAGCAGAGAA--TGCCCTGGCTCAGTTATCACAGTGCTGATGCTG [7076]
Asi ATAGGGCCATAAACAGAGCAGAGAA--TGCCCTGGCTCAGTTATCACAGTGCTGATGCTG [7150]
Tgu -----TGCCCTGGCTCAGTTATCACAGTGCTGATGCTG [5419]
Cli ATAGGGCCATAAACAGAGCAGAGAA--TGCCCTGGCTCAGTTATCACAGTGCTGATGCTG [7023]
Gga ATAGGGCCATAAACAGAGCAGAGAA--TGCCCTGGCTCAGTTATCACAGTGCTGATGCTG [6442]
Xtr ATAGGGCCATAAACAGAGCAGAGAA--TGCCCTGGCTCAGTTATCACAGTGCTGATGCTG [6951]
Lch ATAGGGCCATAAACAGAGCAGAGAA--TGCCCTGGCTCAGTTATCACAGTGCTGATGCTG [7373]
Dre AAAGGGCCATAAACAGAGCAGAGAA--TGCCCTGGTTTCAGTTATCACAGTGCTGATGCTG [6833]

Hsa TCTATTCTAAAGGTACAGTACTGTGATAAAGGATGGC--ACTGTCCTTTTTTCGGTT [7313]
Mmu TCCATTCTAAAGGTACAGTACTGTGATAAAGGATGGC--ACTGCCCTTTTTTCGGTT [7237]
Mdo TCCGTTCTCAAGGTACAGTACTGTGATAAAGGATGGC--ACTGTCCTTTTTTCGGTT [6847]

Meu -----ACTGTCCTTTTTTCGGTT [5706]
Oan TCCATTCTAAAGGTACAGTACTGTGATAACTGAAGGATGGC--ACTGTCCTTTTTTCGGTT [6326]
Aca TCTATACTAAAGGTACAGTACTGTGATAACTGAAGGATGGC--ACTGTCCTTTTTTCGGTT [6917]
Pbi TCTATACTAAAGGTACAGTACTGTGATAACTGAAGGATGGT--ACTGTCCTTTTTTCGGTT [7312]
Cpi TCTATTCTAAAGGTACAGTACTGTGATAACTGAAGGATGGC--ACTGTCCTTTTTTCGGTT [7660]
Cmy TCTATTCTAAAGGTACAGTACTGTGATAACTGAAGGATGGC--ACTGTCCTTTTTTCGGTT [7410]
Psi TCTATTCTAAAGGTACAGTACTGTGATAACTGAAGGATGGC--ACTGTCCTTTTTTCGGTT [6990]
Asp TCTATTCTAAAGGTACAGTACTGTGATAACTGAAGGATGGC--ACTGTCCTTTTTTCGGTT [6734]
Ami TCTATTCTAAAGGTACAGTACTGTGATAACTGAAGGATGGC--ACTGTCCTTTTTTCGGTT [7134]
Asi TCTATTCTAAAGGTACAGTACTGTGATAACTGAAGGATGGC--ACTGTCCTTTTTTCGGTT [7208]
Tgu TCTCTTGTAAGGTACAGTACTGTGATAACTGAAGGATGGC--ACTGTCCTTTTTTCGGTT [5477]
Cli TCTCTTGTAAGGTACAGTACTGTGATAACTGAAGGATGGC--ACTGTCCTTTTTTCGGTT [7081]
Gga TCTCTTGTAAGGTACAGTACTGTGATAACTGAAGGATGGC--ACTATCCTTTTTTCGGTT [6500]
Xtr TCTACTCTAAAGGTACAGTACTGTGATAACTGAAGGATGGT--ACTGTCCTTTTTTCGGTT [7009]
Lch TCCATTCTAAAGGTACAGTACTGTGATAACTGAATGATGGC--ACTGTCCTTTTTTCGGTT [7431]
Dre TCCATCTTAAAGGTACAGTACTGTGATAACTGAAGGATGGC--ATTGTCCATTTTCAGTT [6891]

Hsa ATCATGGTACCGATGCTGTATATCTGAAAGGTACAGTACTGTGATAACTGAAGAATGGTG [7373]
Mmu ATCATGGTACCGATGCTGTAGCTCTGAAAGGTACAGTACTGTGATAGCTGAAGAATGGCG [7297]
Mdo ATCATGGTACCGATGCTGTATATGTGAAAGGTACAGTACTGTGATAACTGAAGAATGGTG [6907]
Meu ATCATGGTACCGATGCTGTATATGTGAAAGGTACAGTACTGTGATAACTGAAGAATGGTG [5766]
Oan ATCACGGTACCGATGCTGTATATGTGAAAGGTACAGTACTGTGATAACTGAAGAATGGTG [6386]
Aca ATCATGGTACCGGTGCTGTATATCTGAAAGGTACAGTACTGTGATAACTGAAGAATGATG [6977]
Pbi ATCATGGTACCGGTGCTGTATGTACGAAAGGTACAGTACTGTGATAACTGAAGAATGATA [7372]
Cpi ATCATGGTACCGGTGCTGTATACGTGAAAGGTACAGTACTGTGATAACTGAAGAATGATG [7720]
Cmy ATCATGGTACCGGTGCTGTATATGTGAAAGGTACAGTACTGTGATAACTGAAGAATGATG [7470]
Psi ATCATGGTACCGGTGCTGTATACGTGAAAGGTACAGTACTGTGATAACTGAAGAATGATG [7050]
Asp ATCATGGTACCGGTGCTGTATACGTGAAAGGTACAGTACTGTGATAACTGAAGAATGATG [6794]
Ami ATCATGGTACCGGTGCTGTATACGTGAAAGGTACAGTACTGTGATAACTGAAGAATGATG [7194]
Asi ATCATGGTACCGGTGCTGTATACGTGAAAGGTACAGTACTGTGATAACTGAAGAATGATG [7268]
Tgu ATCATGGTACCGGTGCTGTATACGTGAAAGGTACAGTACTGTGATAACTGAAGAATGGTG [5537]
Cli ATCATGGTACCGGTGCTGTATACGTGAAAGGTACAGTACTGTGATAACTGAAGAATGGTG [7141]
Gga ATCATGGTACCGGTGCTGTATACGTGAAAGGTACAGTACTGTGATAACTGAAGAATGGTG [6560]
Xtr ATCATGGTACCGGTGCTGTGTATATGAAAGGTACAGTACTGTGATAACTGAAGAATGGTG [7069]
Lch ATCATGGTACCGATGCCGTGTTCCCTCAAAGGTACAGTACTGTGATAACTGAAGAATGGCA [7491]
Dre ATCATGGTACCGGTGCTGTGTGCCTGTCAAGTACAGTACTATGATAACTGAAGATTGACG [6951]

Hsa GT--TACTGCCCTTCGGCTTCTTTACAGTGCTGCCTTGTTGCAT-ATGGATCAAGCAGCAT [7430]
Mmu GT--TACTGCCCTTCGGCTTCTTTACAGTGCTGCCTTGTTGCAT-ATGGATCAAGCAGCAT [7354]
Mdo GT--TATTGTCTTCGGCTTCTTTACAGTGCTGCCTTGTTGCAT-ATGGATCAAGCAGCAT [6964]
Meu GT--TATTGTCTTCGGCTTCTTTACAGTGCTGCCTTGTTGCAT-ATGGATCAAGCAGCAT [5823]
Oan GT--CCTTGCCCTTCGGCTTCTTTACAGTGCTGCCTTGTTGCAT-ATGGATCAAGCAGCAT [6443]
Aca GT--CGCTGCCTTCAGCTTCTTTACAGTGCTGCCTTGTTGCTT-ATGGATCAAGCAGCAT [7034]
Pbi GT--TGCTGTCTTCGGCTTCTTTACAGTGCTGCCTTGTTGCAT-ATGGATCAAGCAGCAT [7429]
Cpi GT--CATTGTCTTCGGCTTCTTTACAGTGCTGCCTTGTTGCAT-ATGGATCAAGCAGCAT [7777]
Cmy GT--CATTGTCTTCGGCTTCTTTACAGTGCTGCCTTGTTGCAT-ATGGATCAAGCAGCAT [7527]
Psi GT--CACTGTCTTCGGCTTCTTTACAGTGCTGCCTTGTTGCAT-ATGGATCAAGCAGCAT [7107]
Asp GT--CACTGTCTTCGGCTTCTTTACAGTGCTGCCTTGTTGCAT-ATGGATCAAGCAGCAT [6851]
Ami GT--CATTGTCTTTGGCTTCTTTACAGTGCTGCCTTGTTGCAT-ATGGATCAAGCAGCAT [7251]
Asi GT--CATTGTCTTTGGCTTCTTTACAGTGCTGCCTTGTTGCAT-ATGGATCAAGCAGCAT [7325]
Tgu GT--TACTGCCTTCGGCTTCTTTACAGTGCTGCCTTGTTGCAT-ATGGATCAAGCAGCAT [5594]
Cli GT--TACTGTCTTCGGCTTCTTTACAGTGCTGCCTTGTTGCAT-ATGGATCAAGCAGCAT [7198]
Gga GT--TGCTGCCTTCGGCTTCTTTACAGTGCTGCCTTGTTGCAT-ATGGATCAAGCAGCAT [6617]
Xtr GT--CATTTCCTTTGGCTTCTTTACAGTGCTGCCTTGTTGCAT-ATGGATCAAGCAGCAT [7126]
Lch GT--CCTTGCTTTTGGCTTCTCTACAGTGCTGCCTTGTTGCATTAAGGTTCAAGCAGCAT [7549]
Dre GT----- [6953]

Hsa TGTACAGGGCTATGAAGGCATTG--TGTGCTTTTCAGCTTCTTTTACAGTGCTGCCTTGTAG [7488]
Mmu TGTACAGGGCTATGAAGGCATTG--CGTGCTTTTCAGCTTCTTTTACAGTGCTGCCTTGTAG [7412]
Mdo TGTACAGGGCTATGAAGACATTG--GGTGCTTTTCAGCTTCTTTTACAGTGCTGCCTTGTAG [7022]
Meu TGTACAGGGCTATGAAGGCACTG--AGTGCTTTTCAGCTTCTTTTACAGTGCTGCCTTGTAG [5881]
Oan TGTACAGGGCTATGAGGGCATTG--GGTGCTTTTCAGCTTCTTTTACAGTGCTGCCTTGTAG [6501]
Aca TGTACAGGGCTATGAAGGCATTG--GGTGCTTTTCAGCTTCTTTTACAGTGCTGCCTTGTAG [7092]
Pbi TGTACAGGGCTATGAGGACACCG--GGCGCTTTCAGCTTCTTTTACAGTGCTGCCTTGTAG [7487]
Cpi TGTACAGGGCTATGAAGGCATTA--TGTGCTTTTCAGCTTCTTTTACAGTGCTGCCTTGTAG [7835]
Cmy TGTACAGGGCTATGAAGGCATTA--TGTGCTTTTCAGCTTCTTTTACAGTGCTGCCTTGTAG [7585]
Psi TGTACAGGGCTATGAAGGCATTA--TTTGCTTTTCAGCTTCTTTTACAGTGCTGCCTTGTAG [7165]
Asp TGTACAGGGCTATGAAGGCATTA--TTTGCTTTTCAGCTTCTTTTACAGTGCTGCCTTGTAG [6909]
Ami TGTACAGGGCTATGAAGACAATG----- [7274]
Asi TGTACAGGGCTATGAAGACAATG--TGTGCTTTTCAGCTTCTTTTACAGTGCTGCCTTGTAG [7383]
Tgu TGTACAGGGCTATGAAGGCATTG--TGTGCTTTTCAGCTTCTTTTACAGTGCTGCCTTGTAG [5652]
Cli TGTACAGGGCTATGAAGGCATTG--TGTGCTTTTCAGCTTCTTTTACAGTGCTGCCTTGTAG [7256]
Gga TGTACAGGGCTATGAAGGCACTG--TGTGCTTTTCAGCTTCTTTTACAGTGCTGCCTTGTAG [6675]
Xtr TGTACAGGGCTATGAAGGATCTG--TGTGCTTTTCAGCTTCTTTTACAGTGCTGCCTTGTAG [7184]
Lch TGTACAGGGCTATGAAGGCACTG--TGTGCTTTTCAGCTTCTTTTACAGTGCTGCCTTGTAG [7607]
Dre -----TGGTCTGTGACGCTCTTTTACGGTGCTGCCTTGTAG [6988]

Hsa CATTTCAGGTCAAGCAGCATTGTACAGGGCTATGAAAGAACCA--CTCTCTGCTTTTCAGCT [7546]
Mmu CATTTCAGGTCAAGCAGCATTGTACAGGGCTATGAAAGAACCA--CTCTGTGCTTTTCAGCT [7470]
Mdo CATTGATGTCAAGCAGCATTGTACAGGGCTATGAAAGAACCA--CTTTCTGCTTTTCGGCT [7080]
Meu CATTGATGTCAAGCAGCATTGTACAGGGCTATGAAAGAGCCG----- [5923]
Oan CATTTCATGTCAAGCAGCATTGTACAGGGCTATGAAAGAACCA--CTCTTTGCTTTTCAGCT [6559]
Aca CAACCATGTCAAGCAGCATTGTACAGGGCTATGAAAGAACCA--CTCTTTGCTTTTCAGCT [7150]
Pbi CAACCATGTCAAGCAGCATTGTACAGGGCTATGAAAGAACCC--CTCTTTGCTTTTCAGCT [7545]
Cpi CATTTCATGTCAAGCAGCATTGTACAGGGCTATGAAAGAAGCTG--CTTTTTCAGCTTTTCAGCT [7893]
Cmy CATTTCATGTCAAGCAGCATTGTACAGGGCTATGAAAGAAGCTG--CTTTTTCAGCTTTTCAGCT [7643]
Psi CATTTCAGATCAAGCAGCATTGTACAGGGCTATGAAAGAATTG--CTTTTTCAGCTTTTCAGCT [7223]
Asp CATTTCAGATCAAGCAGCATTGTACAGGGCTATGAAAGAATTG--CTTTTTCAGCTTTTCAGCT [6967]
Ami -----CTCTTTGCTTTTCAGCT [7290]
Asi CATTTCATGTCAAGCAGCATTGTACAGGGCTATGAAAGAACAG--CTCTTTGCTTTTCAGCT [7441]
Tgu CATTTCATGTCAAGCAGCATTGTACAGGGCTATGAAAGAGCAG--CTCTTTGCTTTTCAGCT [5710]
Cli CGTTCATGTCAAGCAGCATTGTACAGGGCTATGAAAGAGCAG--CTCTTTGCTTTTCAGCT [7314]
Gga CGTTCATGTCAAGCAGCATTGTACAGGGCTATGAAAGAACAG--CTCTTTGCTTTTCAGCT [6733]
Xtr CATCTATGTCAAGCAGCATTGTACAGGGCTATGAAAGAGCAG--CTTACTGCTTTTCAGCT [7242]
Lch CATCAATGTCAAGCAGCATTGTACAGGGCTATGAAAGAGCTG--CTCTGTGCTTTTCAGCT [7665]
Dre AATCTGGATCAAGCAGCATTGTACAGGGCTATGAGAGACCCG--TGTGTTGCTCTGAGCT [7046]

Hsa TCTTTTACAGTGTTGCCTTGTGGCATGGAGTTCAAGCAGCATTGTACAGGGCTATCAAAGC [7606]
Mmu TCTTTTACAGTGTTGCCTTGTGGCATGGAGTTCAAGCAGCATTGTACAGGGCTATCAAAGC [7530]
Mdo TCTCTACAGTGTTGCCTTGTGGCGTGGAGTTCAAGCAGCATTGTACAGGGCTATCAAAGC [7140]
Meu ----- [5923]
Oan TCTTTTACAGTGTTGCCTTGTGGCATGGAGTTCAAGCAGCATTGTACAGGGCTATCAAAGC [6619]
Aca TCTTTTACAGTGTTGCCTTGTGGCATGGAGTTCAAGCAGCATTGTACAGGGCTATCAAAGC [7210]
Pbi TCTTTTACAGTGTTGCCTTGTGGCATGGAGTTCAAGCAGCATTGTACAGGGCTATCAAAGC [7605]
Cpi TCTTTTACAGTGTTGCCTTGTGGCATGGAGTTCAAGCAGCATTGTACAGGGCTATCAAAGC [7953]
Cmy TCTTTTACAGTGTTGCCTTGTGGCACGGAGTTCAAGCAGCATTGTACAGGGCTATCAAAGC [7703]
Psi TCTTTTACAGTGTTGCCTTGTGGCATGGAGTTCAAGCAGCATTGTACAGGGCTATCAAAGC [7283]
Asp TCTTTTACAGTGTTGCCTTGTGGCATGGAGTTCAAGCAGCATTGTACAGGGCTATCAAAGC [7027]
Ami TCTTTTACAGTGCTGCCTTGTGTCATTTATGTCAAGCAGCATTGTACAGGGCTATCAAAGC [7350]
Asi TCTTTTACAGTGTTGCCTTGTGGCATGGAGTTCAAGCAGCATTGTACAGGGCTATCAAAGC [7501]
Tgu TCTTTTACAGTGTTGCCTTGTGGCATGGAGTTCAAGCAGCATTGTACAGGGCTATCAAAGC [5770]
Cli TCTTTTACAGTGTTGCCTTGTGGCATGGAGTTCAAGCAGCATTGTACAGGGCTATCAAAGC [7374]
Gga TCTTTTACAGTGTTGCCTTGTGGCATGGAGTTCAAGCAGCATTGTACAGGGCTATCAAAGC [6793]
Xtr TCTTTTACAGTGTTGCCTTGTGGCATGGAGTTCAAGCAGCATTGTACAGGGCTATCAAAGC [7302]

Lch TCTTTACAGTGTTCCTTGTGGCATGAGGATCAAGCAGCATTGTACAGGGCTATCAAAGC [7725]
Dre TCTTTACAGTGTTCCTTGTGGCATGGAGATCAAGCAGCATTGTACAGGGCTATCACAGC [7106]

Hsa ACA--CCTTAGCAGAGCTGTGGAGTGTGACAATGGTGTTCCTGTCTAAAC-TATCAAACG [7663]
Mmu ACA--CCTTAGCAGAGCTGTGGAGTGTGACAATGGTGTTCCTGTCCAAAC-CATCAAACG [7587]
Mdo ATA--CCCTACCAGAGCTATGGAGTGTGACAATGGTGTTCCTGTCCAGTC-TATCAAACG [7197]
Meu -----CCCTGCCAGAGCTATGGAGTGTGACAATGGTGTTCCTGTCCAGTC-TATCAAACG [5977]
Oan CTA--TGCTACCAGAGCTGTGGAGTGTGACAATGGTGTTCCTGTCCAGTC-TATCAAACG [6676]
Aca GCA--TCCTGCTGGAGCTGTGGAGTGTGACAATGGTGTTCCTGTATCCAATC-CGTCAAACG [7267]
Pbi ATA--TTCTGCTGGAGCTTTGGAGTGTGACAATGGTGTTCCTGTATCCAATC-TCTCAAACG [7662]
Cpi ATC--TACTGCCAGAGCTGTGGAGTGTGACAATGGTGTTCCTGTCCAATC-TATCAAACG [8010]
Cmy ATC--TACTGCCAGAGCTGTGGAGTGTGACAATGGTGTTCCTGTCCAATC-TATCAAACG [7760]
Psi ATC--TACTGCCAGAGCTGTGGAGTGTGACAATGGTGTTCCTGTCCAATA-TATCAAACG [7340]
Asp ATC--TACTGCCAGAGCTGTGGAGTGTGACAATGGTGTTCCTGTCCAATA-TATCAAACG [7084]
Ami GGA--TACTATCAGAGCTGTGGAGTGTGACAATGGTGTTCCTGTCCAATC-TATCAAACG [7407]
Asi GGA--TACTATCAGAGCTGTGGAGTGTGACAATGGTGTTCCTGTCCAATC-TATCAAACG [7558]
Tgu ATG--TGCTCCCAGAGCTGTGGAGTGTGACAATGGTGTTCCTGTGCC-ATC-TATCAAACG [5826]
Cli ATG--TGCTGCCCCAGAGCTGTGGAGTGTGACAATGGTGTTCCTGTCCCTGGC-TATCAAACG [7431]
Gga ATG--TACGGCCAGAGCTATGGAGTGTGACAATGGTGTTCCTGTCCAATC-TATCAAACG [6850]
Xtr ATT--GACTGCTGGAGCTATGGAGTGTGACAATGGTGTTCCTGTGCAGAGC-TATCAAACG [7359]
Lch ACT--ATCTGTCCAGAGCTGTGGAGTGTGACAATGGTGTTCCTGTCTGATCATATCAAACG [7783]
Dre ACA--GTCTCCAGAGCTGTGGAGTGTGACAATGGTGTTCCTGTATCATCTGTCTCAAACG [7164]

Hsa CCATTATCACACTAAATAGCTACTGCTAGG--GGCCTCTCTCTCCGTGTTTACAGCGGAC [7721]
Mmu CCATTATCACACTAAATAGCTACTGCTAGG--GGCCTCTCTCTCCGTGTTTACAGCGGAC [7645]
Mdo CCATTATCACACTAAATAGCTACTGTTGGG--GGCCTCTCTCTCCGTGTTTACAGCGGAC [7255]
Meu CCATTATCACACTAAATAGCTACTGTTGGG--GGCCTCTCTCTCCGTGTTTACAGCGGAC [6035]
Oan CCATTATCACACTAAATAGCTACTGTAGGG----- [6706]
Aca CCATTATCACACTAAATAGCTACTGCTAGA--GGCCCCCTCTCTGCGTGTTTACAGCGGAC [7325]
Pbi CCATTATCACACTAAATAGCTACTGTTAGA--GGCCCCCTCTCTGCGTGTTTACAGCGGAC [7720]
Cpi CCATTATCACACTAAATAGCTACTGTTAGA--GGCCCCCTCTCTCCGTGTTTACAGCGGAC [8068]
Cmy CCATTATCACACTAAATAGCTACTGTTAGA--GGCCCCCTCTCTCCGTGTTTACAGCGGAC [7818]
Psi CCATTATCACACTAAATAGCTACTGTTAGA--GGCCCCCTCTCTCCGTGTTTACAGCGGAC [7398]
Asp CCATTATCACACTAAATAGCTACTGTTAGA--GGCCCCCTCTCTCCGTGTTTACAGCGGAC [7142]
Ami CCATTATCACACTAAATAGCTACTGTTAGA--GGCCCCCTCTCTGCGTGTTTACAGCGGAC [7465]
Asi CCATTATCACACTAAATAGCTACTGTTAGA----- [7588]
Tgu CCATTATCACACTAAATAGTTCTGTTAAA-----CTCTCCGTGTTTACAGCGGAC [5877]
Cli CCATTATCACACTAAATAGCTACTGGTAGA--GGCCCCCTCTCTCCGTGTTTACAGCGGAC [7489]
Gga CCATTATCACACTAAATAGCTACTGGTAGA----- [6880]
Xtr CCATTATCACACTAATGAGCTACTGCAGGC--GCCCTCTCTCTCCGTGTTTACAGCGGAC [7417]
Lch CCATTATCACACTAAATAGCTATAGCAAGA--TTTTTCTCTCTTTCGTGTTTACAGCGGAC [7841]
Dre CCATTATCACACTAAATAGCCACGGTGTGA--CCTGCTTTTCTTTCGTGTTTACAGCGGAC [7222]

Hsa CTTGATTTAAATGTCCATACAATTAAGGCACGCGGTGAATGCCAAGAATGGGGCT--AGA [7779]
Mmu CTTGATTTAAATGTCCATACAATTAAGGCACGCGGTGAATGCCAAGAATGGGGCT--AGA [7703]
Mdo CTTGATTTAAATGTCCATACAATTAAGGCACGCGGTGAATGCCAAGAATGGGGCT--AGA [7313]
Meu CTTGATTTAAATGTCCATACAATTAAGGCACGCGGTGAATGCCAAGAATGGGGCT--AGA [6093]
Oan -----GGA [6709]
Aca CTTGATTTAAATGTCCATACAATTAAGGCACGCGGTGAATGCTAAGAACGAGGCT--GGA [7383]
Pbi CTTGATTTAAATGTCCATACAATTAAGGCACGCGGTGAATGCTAAGAACGAGGCT--CGA [7778]
Cpi CTTGATTTAAATGTCCATACAATTAAGGCACGCGGTGAATGCCAAGAACGAGGCT--CGA [8126]
Cmy CTTGATTTAAATGTCCATACAATTAAGGCACGCGGTGAATGCCAAGAACGAGGCT--CGA [7876]
Psi CTTGATTTAAATGTCCATACAATTAAGGCACGCGGTGAATGCCAAGAACGGGGCT--CGG [7456]
Asp CTTGATTTAAATGTCCATACAATTAAGGCACGCGGTGAATGCCAAGAACGGGGCT--CGG [7200]
Ami CTTGATTTAAATGTCCATACAATTAAGGCACGCGGTGAATGCCAAGAACGGGGCC--CGG [7523]
Asi ----- [7588]
Tgu CTTGATTTAAATGTCCATACAATTAAGGCACGCGGTGAATGCCAAGAACGAGGCT--TAA [5935]

Cli CTTGATTTAAATGTCCATACAATTAAGGCACGCGGTGAATGCCAAGAACGAGGCT--CAA [7547]
Gga -----CCA [6883]
Xtr CTTGATTTAAATGTCCATACAATTAAGGCACGCGGTGAATGCCAAGAGAGGGGCT--TAA [7475]
Lch CTTGATTTAAATGTCCATACAATTAAGGCACGCGGTGAATGCCAAGAGAGAGGCC--TGA [7899]
Dre CTTGATTTAAATGTCCATACAATTAAGGCACGCGGTGAATGCCAAGAGAGATGGC--TCA [7280]

Hsa GGCTCT-G-CTCTCCGTGTTTACAGCGGACCTTGATTTAATGTCATACAATTAAGG-CAC [7836]
Mmu GACTCT-G-CTCTCCGTGTTTACAGCGGACCTTGATTTAATGTCATACAATTAAGG-CAC [7760]
Mdo GACTCT-GTCTCTCCGTGTTTACAGCGGACCTTGATTTAATGTCATACAATTAAGG-CAC [7371]
Meu GACTCT-GTCTCTCCGTGTTTACAGCGGACCTTGATTTAATGTCATACAATTAAGG-CAC [6151]
Oan GACTCT-GCCTCTCCGTGTTTACAGCGGACCTTGATTTAATGTCATACAATTAAGGGCAC [6768]
Aca GGCGCT-GCCTCTCCGTGTTTACAGCGGACCTTGATTTAATGTCATACAATTAAGG-CAC [7441]
Pbi GGCTCT-GTCTCTCCGTGTTTACAGCGGACCTTGATTTAATGTCATACAATTAAGG-CAC [7836]
Cpi GGCTCT-GACTCTCCGTGTTTACAGCGGACCTTGATTTAATGTCATACAATTAAGG-CAC [8184]
Cmy GGCTCT-GACTCTCCGTGTTTACAGCGGACCTTGATTTAATGTCATACAATTAAGG-CAC [7934]
Psi GGCTCT-GCCTCTCCGTGTTTACAGCGGACCTTGATTTAATGTCATACAATTAAGG-CAC [7514]
Asp GGCTCT-GCCTCTCCGTGTTTACAGCGGACCTTGATTTAATGTCATACAATTAAGG-CAC [7258]
Ami GGCTCTCGCCTCTCCGTGTTTACAGCGGACCTTGATTTAATGTCATACAATTAAGG-CAC [7582]
Asi ----- [7588]
Tgu GGCTCT-GACTCTCCGTGTTTACAGCGGACCTTGATTTAATGTCATACAATTAAGG-CAC [5993]
Cli GGCTCT-GACTCTCCGTGTTTACAGCGGACCTTGATTTAATGTCATACAATTAAGG-CAC [7605]
Gga GGCTCT-GCCTCTCCGTGTTTACAGCGGACCTTGATTTAATGTCATACAATTAAGG-CAC [6941]
Xtr GTCTCT-GACTCTCCGTGTTTACAGCGGACCTTGATTTAATGTCATACAATTAAGG-CAC [7533]
Lch GACTCT-GACTCTGCGTGTTTACAGCGGACCTTGATTTAATGTCATACAATTAAGG-CAC [7957]
Dre GACTCT-GGCTTTCCGTGTTTACAGCGGACCTTGATTTAATGTCCTTACAATTAAGG-CAC [7338]

Hsa GCGGTGAATGCCAAGAGCGGAGCCTACGG--CCTGAGGGCCCTCTGCGTGTTTACAGCG [7894]
Mmu GCGGTGAATGCCAAGAGCGGAGCCTACGG--CCTGAGGGCCCTCTGCGTGTTTACAGCG [7818]
Mdo GCGGTGAATGCCAAGAGCGGAGCCTGAAA--CCAGAGTACCCCTCTGCGTGTTTACAGCG [7429]
Meu GCGGTGAATGCCAAGAGCGGAGCCTGAAA--CCAGAGTGCCCTCTGCGTGTTTACAGCG [6209]
Oan TCGGTGAATGCCAAGAGCGGAGCCCCGGA----- [6797]
Aca GCGGTGAATGCCAAGAGCGGGCTGGAAG--CCCGGGCCCTTCTCTGCGTGTTTACAGCG [7499]
Pbi GCGGTGAATGCCAAGAGCAGGGCTTGAAG--CCTGGGCCCTTCTCTCCGTGTTTACAGCG [7894]
Cpi GCGGTGAATGCCAAGAGCGGAGCCTGAAG--GACGAGCCCTCTCTGCGTGTTTACAGCG [8242]
Cmy GCGGTGAATGCCAAGAGCGGAGCCTGAAG--GCCGAGCCCTCTCTGCGTGTTTACAGCG [7992]
Psi GCGGTGAATGCCAAGAGCGGAGCCTGAAG--GCCGAGCCCTCTCTGCGTGTTTACAGCG [7572]
Asp GCGGTGAATGCCAAGAGCGGAGCCTGAAG--GCCGAGCCCTCTCTGCGTGTTTACAGCG [7316]
Ami GCGGTGAATGCCAAGAGCGGAGCCGGAAG--GGCGAGCCCTCTCTGCGTGTTTACAGCG [7640]
Asi -----GCCGATCCCTCTCTGCGTGTTTACAGCG [7617]
Tgu GCGGTGAATGCCAAGAGCGGATCCTCAAA--CCCGAGCCCTCTCTGCGTGTTTACAGCG [6051]
Cli GCGGTGAATGCCAAGAGCGGATCCTCAAG--CCCGAGCCCTCTCTGCGTGTTTACAGCG [7663]
Gga GCGGTGAATGCCAAGAGCGGATCCTCCAG--CCCGAGCCTCTCTCTGCGTGTTTACAGCG [6999]
Xtr GCGGTGAATGCCAAGAGTGAGCCTACAT--ACGGAGCCCCCTCTGCGTGTTTACAGCG [7591]
Lch GCGGTGAATGCCAAGAGTGAGCCTTAC--ATAGACTCCCTCTCTACGTGTTTACAGCG [8015]
Dre GCGGTGAATGCCAAGAGCGGAGCCTTTTA--CAGGCCCGCCACTCTGCGTGTTTACAGCG [7396]

Hsa GACCTTGATTTAATGTCTATACAATTAAGGCACGCGGTGAATGCCAAGAGAGGGCGCTCC [7954]
Mmu GACCTTGATTTAATGTCTATACAATTAAGGCACGCGGTGAATGCCAAGAGAGGGCGCTCC [7878]
Mdo GACCTTGATTTAATGTCTATACAATTAAGGCACGCGGTGAATGCCAAGAGAGGTGTCTCC [7489]
Meu GACCTTGATTTAATGTCTATACAATTAAGGCACGCGGTGAATGCCAAGAGAGGTGTCTCC [6269]
Oan ----- [6797]
Aca GACCTTGATTTAATGTCCATACAATTAAGGCACGCGGTGAATGCCAAGAGAG--CGGCTCT [7558]
Pbi GACCTTGATTTAATGTCCATACAATTAAGGCACGCGGTGAATGCCAAGAGACCGGTTC [7954]
Cpi GACCTTGATTTAATGTCCATACAATTAAGGCACGCGGTGAATGCCAAGAGAGGAGCCTCA [8302]
Cmy GACCTTGATTTAATGTCCATACAATTAAGGCACGCGGTGAATGCCAAGAGAGGAGCCTCA [8052]
Psi GACCTTGATTTAATGTCCATACAATTAAGGCACGCGGTGAATGCCAAGAGAGGAGCCTCA [7632]
Asp GACCTTGATTTAATGTCCATACAATTAAGGCACGCGGTGAATGCCAAGAGAGGAGCCTCA [7376]

Ami GACCTTGATTTAATGTCCATACAATTAAGGCACGCGGTGAATGCCAAGAGAGGAGCCTCA [7700]
Asi GACCTTGATTTAATGTCTATAAAAATTAAGGCACGCGGTGAATGCCAAGAGAGGAGCCTCA [7677]
Tgu GACCTTGATTTAATGTCCATACAATTAAGGCACGCGGTGAATGCCAAGAGAGGAGCCTCA [6111]
Cli GACCTTGATTTAATGTCCATACAATTAAGGCACGCGGTGAATGCCAAGAGAGGAGCCTCA [7723]
Gga GACCTTGATTTAATGTCCATACAATTAAGGCACGCGGTGAATGCCAAGAGAGGAGCCTCA [7059]
Xtr GACCTTGATTTAATGTCCATACAATTAAGGCACGCGGTGAATGCCAAGAGAGGGGCTTTA [7651]
Lch GACCTTGATTTAATGTTTACATACAATTAAGGCACGCGGTGAATGCCAAGAGAGGAGCCTCA [8075]
Dre GACCTTGATTTAATATCCATACAATTAAGGCACGCGGTGAATGCCAAGAGAGGGGTCTTA [7456]

Hsa GC----- [7956]
Mmu GC----- [7880]
Mdo GC----- [7491]
Meu GC----- [6271]
Oan ----- [6797]
Aca CA--CCAGGGCTTGGCCCTTCGTGTTTACAGTGGACCTTGATTTTCATGTGGACACAATTA [7616]
Pbi CT--CTTGGCTTAAGCCCTTCGTGTTTACAGCGGACCTTGATTTAATTTTCGATACAATTA [8012]
Cpi CA--CTCGGCTTCCGCTTTTTCGTGTTTACAGCGGACCTTGATTTAATTTTC-ATACAATTA [8359]
Cmy CA--CTCGGCTTCCGCTTTTTCGTGTTTACAGCGGACCTTGATTTAATTTTC-ATACAATTA [8109]
Psi CA----- [7634]
Asp CA----- [7378]
Ami CA--CGCGGCCTCGGCTCTCCGTGTTTACAGCGGACCTTGATTTAATGTC-ACACAATTA [7757]
Asi CA----- [7679]
Tgu CA----- [6113]
Cli CA----- [7725]
Gga CA--ATCAGCCCCAGCGTTTTTGTGTTTCACTGCAGACCTTGATTTAATGTC-ACACGATTA [7116]
Xtr TC----- [7653]
Lch AA--TGTGGTTGAAGCTCTGCGTGTTCACCGTGGACCTTGATTTAATTTT-ATACAATTA [8132]
Dre AA--TTGGGTTTTTGCTCTTTGTGTTTACAGTGGACCTTGATTTAATTTCAATACAATTA [7514]

Hsa -----GCTGGCGACGGGA-CATTATTAC [7978]
Mmu -----GCCGGTGACAGCA-CATTATTAC [7902]
Mdo -----GCTGACAATGGGT-CATTATTAC [7513]
Meu -----GCTGACAATGGGT-CATTATTAC [6293]
Oan -----GCTGGCAACTGCC-CATTATTAC [6819]
Aca AGGCACGCGGTGAATGCCAAGAGCCCAGCCCCTGC--GCTCCCCGCGGTC-CATTATTAC [7673]
Pbi AGGCACGCGGTGAATGCCAAGAGAGAAGCCACGTC--GCTGACTGCGGCT-CATTATTAC [8069]
Cpi AGGCACGCGGTGAATGCCAAGAGAGAAGCCGGACT--GCTGGTGCCGGCC-CATTATTAC [8416]
Cmy AGGCACGCGGTGAATGCCAAGAGAGAAGCCGGACT--GCTGGTGCCGGCC-CATTATTAC [8166]
Psi -----GCTGGTGCCGGCT-CATTATTAC [7656]
Asp ----- [7378]
Ami AGGCACGCGGTGAATGCCAAGAGA-GGGGCCGCC--GCTGGTGACGGCC-CATTATTAC [7813]
Asi -----GCTGGTGACGGCC-CATTATTAC [7701]
Tgu -----GCTGGTGACGGCC-CATTATTAC [6135]
Cli -----GCTGGTGACGGCC-CATTATTAC [7747]
Gga AGGCACGAGTGAATGCCAAAGTTTTGGGGCAGCCT--GCTGGTGACGGCC-CATTATTAC [7173]
Xtr -----GTTGGTGGCTGTG-CATTATTAC [7675]
Lch AGGCACGCGGTGAATGCCAAGAGAGAAACCAACAT--GTTGGTGACGGTC-CATTATTAC [8189]
Dre AGGCACGCGGTGAATGCCAAGAGAGAAGCCAACAG--CGGCCTCACGGTT-CATTATTAC [7571]

Hsa TTTTGGTACGCGCTGTGACACTTCAAACCTCGTACCGTGAGTAATAATGCGCCGTCCA-CG [8037]
Mmu TTTTGGTACGCGCTGTGACACTTCAAACCTCGTACCGTGAGTAATAATGCGCGGTCCAG-CA [7961]
Mdo TTTTGGTACGCGCTGTGACACATCAAACCTCGTACCGTGAGTAATAATGCGCCATTGG-CA [7572]
Meu TTTTGGTACGCGCTGTGACACATCAAACCTCGTACCGTGAGTAATAATGCGCCATTGG-CA [6352]
Oan TTTTGGTACGCGCTGTGACGCTTCAAACCTCGTACCGTGAGTAATAATGCGTGGCTGG-CA [6878]
Aca TTTTGGTACGCGCTGTGCCACTTCAAACCTCGTACCGTGAGTAATAATGCGCTGAGGGACA [7733]
Pbi TTTTGGTACGCGCTGTGCCACTTCAAACCTCGTACCGTGAGTAATAATGCGCGGAGGGCCA [8129]
Cpi TTTTGGTACGCGCTGTGACACTTCAAACCTCGTACCGTGAGTAATAATGCGCTGCGGC-CA [8475]

Cmy TTTTGGTACGCGCTGTGACACTTCAAACCTCGTACCGTGAGTAATAATGCGCTGCGGC-CA [8225]
Psi TTTTGGTACGCGCTGTGACACTTCAAACCTCGTACCGTGAGTAATAATGCGCTGCGGC-CA [7715]
Asp ----- [7378]
Ami TTTTGGTACGCGCTGTGACACTTCAAACCTCGTACCGTGAGTAATAATGCGCTGCGGC-CA [7872]
Asi TTTTGGTACGCGCTGTGACACTTCAAACCTCGTACCGTGAGTAATAATGCGCTGCGGC-CA [7760]
Tgu TTTTGGTACGCGCTGTGACACTTCAAACCTCGTACCGTGAGTAATAATGCGCTGTGGC-CA [6194]
Cli TTTTGGTACGCGCTGTGACACTTCAAACCTCGTACCGTGAGTAATAATGCGCTGTGGC-CA [7806]
Gga TTTTGGTACGCGCTGTGACACTTCAAACCTCGTACCGTGAGTAATAATGCGCTGTGGT-CA [7232]
Xtr TTTTGGTACGCGCTGTGTCACATCAAACCTCGTACCGTGAGTAATAATGCGCAGCTGC-CA [7734]
Lch TTTTGGTACGCGCTGTGACACTTCAAACCTCGTACCGTGAGTAATAATGCGCAGTGGC-CA [8248]
Dre TTTTGGTACGCGCTATGCCACTCTCAAACCTCGTACCGTGAGTAATAGTGCCTGTGAC-TG [7630]

Hsa GC--GAGCTGTTGGATTTCGGGGCCGTAGCACTGTCTGAGAGG-TTTACATTTCTCACAGT [8094]
Mmu GC--GAGCTGTTGGATTTCGGGGCCGTAGCACTGTCTGAGAGG-TTTACATTTCTCACAGT [8018]
Mdo GC--GAGCTGTTGGATTTCGGGGCCGTAGCACTGTCTGAGAGG-TTTACATTTCTCACAGT [7629]
Meu GC--GAGCTGTTGGATTTCGGGGCCGTAGCACTGTCTGAGAGG-TTTACATTTCTCACAGT [6409]
Oan GC--GAGCCGCTGGATTTCGGGGCCGATACACGGTCTGAGGGG-TTTACGAGTCTCACAGT [6935]
Aca GC--GAGCTGTTGGATTTCGGGGCCGTAACACTGTCTGAGAGG-GTTACATTTCTCACAGT [7790]
Pbi GC--GAGCTGTTGGATTTCGGGGCCGTAACACTGTCTGAGAGG-GTTACATTTCTCACAGT [8186]
Cpi GC--GAGCTGTTGGATTTCGGGGCCGTAACACTGTCTGAGAGG-GTTACATTTCTCACAGT [8532]
Cmy GC--GAGCTGTTGGATTTCGGGGCCGTAACACTGTCTGAGAGG-GTTACATTTCTCACAGT [8282]
Psi GC--GAGCTGTTGGATTTCGGGGCCGTAACACTGTCTGAGAGA-GTTACATTTCTCACAGT [7772]
Asp ----GAGCTGTTGGATTTCGGGGCCGTAACACTGTCTGAGAGA-GTTACATTTCTCACAGT [7433]
Ami GC--GAGCTGTTGGATTTCGGGGCCGTAACACTGTCTGAGAGG-GTTACATTTCTCACAGT [7929]
Asi GC--GAGCTGTTGGATTTCGGGGCCGTAACACTGTCTGAGAGG-GTTACATTTCTCACAGT [7817]
Tgu GC--GAGCTGTTGGATTTCGGGGCCGTAACACTGTCTGAGAGG-TTTACATTTCTCACAGT [6251]
Cli GC--GAGCTGTTGGATTTCGGGGCCGTAACACTGTCTGAGAGG-TTTACATTTCTCACAGT [7863]
Gga GC--GAGCTGTTGAATTCGGGGCCGTAACACTGTCTGAGAGG-TTTATATTTCTCACAGT [7289]
Xtr AT--GAGCGCTGGAACCGGGCCCGGAGCGCTGTCTGAGAGGGTTAAGTTTCTCACAGT [7792]
Lch GC--GAGCTGTTGGATACGGGGCCGAGCACTGTCTGAGAGG-GCTGTATTTCTCACAGT [8305]
Dre GT--GAGCGCTGAATGCGGGCCGTGGCGCTGTCTGAGACGCTCTACTATTCTCACAGT [7688]

Hsa GAACCGGTCTCTTTTTTTCAGCTGCTTTC--GTGCAGTGGGAAGGGGGCCGATACACTGTAC [8152]
Mmu GAACCGGTCTCTTTTTTTCAGCTGCTTTC--GTGCAGTGGGAAGGGGGCCGATGCACTGTAA [8076]
Mdo GAACCGGTCTCTTTTTTTCAGCTGCTTTC--GTGCAGCAGGAAGGGGGCCGTTACACTGTCA [7687]
Meu GAACCGGTCTCTTTTTTTCAGCTGCTTTC--GTGCAGCGGGAAGGGGGCCGTTACACTGTTA [6467]
Oan GAACCGGTCTCTTTTTTTCAGTTGCTTCC--GGACAGCCGGAAGGGGGCCGTTACACTGTAA [6993]
Aca GAACCGGTCTCTTTTTTTCAGCTGCTTTC--GTACAGTTGGAAGGGGGCCGTTACACTGTAA [7848]
Pbi GAACCGGTCTCTTTTTTTCAGCTGCTTTC--GTGCAGTTGGAAGGGGGCCGTTACACTGTAA [8244]
Cpi GAACCGGTCTCTTTTTTTCAGCTGCTTTC--GGGCAGTTGGAAGGGGGCCGTTACACTGTAA [8590]
Cmy GAACCGGTCTCTTTTTTTCAGCTGCTTTC--GGGCAGTTGGAAGGGGGCCGTTACACTGTAA [8340]
Psi GAACCGGTCTCTTTTTTTCAGCTGCTTTC--GGGCAGTTGGAAGGGGGCCGTTACACTGTAA [7830]
Asp GAACCGGTCTCTTTTTTTCAGCTGCTTTC--GGGCAGTTGGAAGGGGGCCGTTACACTGTAA [7491]
Ami GAACCGGTCTCTTTTTTTCAGCTGCTTTC--GTGCAGTTGGAAGGGGGCCGTTACACTGTAA [7987]
Asi GAACCGGTCTCTTTTTTTCAGCTGCTTTC--GTGCAGTTGGAAGGGGGCCGTTACACTGTAA [7875]
Tgu GAACCGGTCTCTTTTTTTCAGCTGCTTTC--GTGCGCTGGAAGGGGGCCGTTACACTGTAA [6309]
Cli GAACCGGTCTCTTTTTTTCAGCTGCTTTC--GTGCAGCTGGAAGGGGGCCGTTACACTGTAA [7921]
Gga GAACCGGTCTCTTTTTTTCAGCTGCTTTC--GTCCAGCTGGAAGGGGGCCGTTACACTGTAA [7347]
Xtr GAACCGGTCTCTTTTTTTCAGTCTCTTTC--GTGCAGCTGGAACGGGGCCGTTACACTGTAA [7850]
Lch GAACCGGTCTCTTTTTTTCAGCTGTCTTC--TTACAGTTGAGAGGGGGCCGTTACACTGTAA [8363]
Dre GAACCGGTCTCTTTTTTTCAGCCGCTAC--GAGTGCTGGGAGACGGGGCCGTTGGCACTGTAT [7746]

Hsa GAGAGTGAGTAGCAGG-TCTCACAGTGAACCGGTCTCTTTT-CCCTACTGT--CTCCTTTG [8208]
Mmu GAGAGTGAGTAGCAGG-TCTCACAGTGAACCGGTCTCTTTT-CCCTACTGT--CTCCTTTG [8132]
Mdo GAGAGTGAGTAGCAGG-TCTCACAGTGAACCGGTCTCTTTT-CCCTGCTGT--CTCCTTTG [7743]
Meu GAGAGTGAGTAGCAGG-TCTCACAGTGAACCGGTCTCTTTT-CCCTGCTGT--CTCCTTTG [6523]
Oan GAGAGTGAGTACCAGG-TCTCACAGTGAACCGGTCTCTTTT-CCCGACTGG--CTCCTTTG [7049]

Aca GAGAGTGAGTAGCAGG-TCTCACAGTGAACCGGTCTCTTT-TCCTACTGT--CTCTCTCG [7904]
Pbi GAGAGTGAGTAGCAGG-TCTCACAGTGAACCGGTCTCTTT-TCTTACTGT--CTCTCTCG [8300]
Cpi GAGAGTGAGTAGCAGG-TCTCACAGTGAACCGGTCTCTTT-TCCTACTGT--CTCTCTTG [8646]
Cmy GAGAGTGAGTAGCAGG-TCTCACAGTGAACCGGTCTCTTT-TCCTACTGT--CTCTCTTG [8396]
Psi GAGAGTGAGTAGCAGG-TCTCACAGTGAACCGGTCTCTTT-TCCTACTGT----- [7878]
Asp GAGAGTGAGTAGCAGG-TCTCACAGTGAACCGGTCTCTTT-TCCTACTGT----- [7539]
Ami GAGAGTGAGTAGCAGG-TCTCACAGTGAACCGGTCTCTTT-TCCTACTGT--CCCTCTCA [8043]
Asi GAGAGTGAGTAGCAGG-TCTCACAGTGAACCGGTCTCTTT-TCCTACTGT--CCCTCTCA [7931]
Tgu GAGAGTGAGTAGCAGG-TCTCACAGTGAACCGGTCTCTTT-TCCTGCTGT----- [6357]
Cli GAGAGTGAGTAGCAGG-TCTCACAGTGAACCGGTCTCTTT-TCCTACTGT--CCCTCTCG [7977]
Gga GAGAGTGAGTAGCAGG-TCTCACAGTGAACCGGTCTCTTT-TCCTGCTGT----- [7395]
Xtr GAGAGTGAGTAGTAGG-TCTCACAGTGAACCGGTCTCTTT-TCTTACTGT--CTCTCTCA [7906]
Lch GAGAGTGAGTAGCAGG-TCTCACAGTGAACCGGTCTCTTT-TCCTGCTGT--CTCTCTCG [8419]
Dre GAGATTTCATGTAGGCTTTCTCACAGTGAACCGGTCTCTTTTTCCAGCCCT--CCTTTTCA [7804]

Hsa GATCTTTTTTGCGGTCTGGGCTTGCTGTTTCTCTCAACAGTAGTCAGGAAGCCCTTACCCC [8268]
Mmu GATCTTTTTTGCGGTCTGGGCTTGCTGTT-CTCTCGACAGTAGTCAGGAAGCCCTTACCCC [8191]
Mdo GATCTTTTTTGCGGTCTGGGCTTGCTGTTTCTTAAATCAGTAGTCAGGAAGCCCTTACCCC [7803]
Meu GATCTTTTTTGCGGTCTGGGCTTGCTGTTTGTCTAATCAGTAGTCAGGAAGCCCTTACCCC [6583]
Oan GATCTTTTTTGCGGTCTGGGCTTGCTGTTTCTTAAATCAGTAGTCAGGAAGCCCTTACCCC [7109]
Aca GATCTTTTTTGCGGTCTGGGCTTGCTGTTTCTCCAGTCAGCAGTCAGGAAGCCCTTACCCC [7964]
Pbi GATCTTTTTTGCGGTCTGGGCTTGCTGTTTCTCCAATAAGTAGCCAGGAAGCCCTTACCCC [8360]
Cpi GATCTTTTTTGCGGTCTGGGCTTGCTGTTTCTCCAATCAGTAGTCAGGAAGCCCTTACCCC [8706]
Cmy GATCTTTTTTGCGGTCTGGGCTTGCTGTTTCTCCAATCAGTAGTCAGGAAGCCCTTACCCC [8456]
Psi ----- [7878]
Asp ----- [7539]
Ami GATCTTTTTTGCGGTCTGGGCTTGCTGTTTCTCCAACCCACACTCAGGAAGCCCTTACCCC [8103]
Asi GATCTTTTTTGCGGTCTGGGCTTGCTGTTTCTCCAACCCACACTCAGGAAGCCCTTACCCC [7991]
Tgu ----- [6357]
Cli GGTCTTTTTTGCGGTCTGGGCTTGCTGTTTCTCCCGCA-GCACTCAGGAAGCCCTTACCCC [8036]
Gga ----- [7395]
Xtr AAGCTTTTTTGCGGTCTGGGCTTGCTGTTTCTCAATCAAAGTATCCAGGAAGCCCTTATCCC [7966]
Lch GATCTTTTTTGCGGTCTGGGCTTGCTGTTTCTTGAACCAGTAGTCAGGAAGCCCTTACCCC [8479]
Dre GGTCTTTTTTGCGGTCTGGGCTTGCTGTTTCTTGAACCAGTAGCCAGGAAGCCCTTACCCC [7864]

Hsa AAAAAGTATCTGCGGGAGGCC--TTTCGC-GAATCTTTTTTGCGGTCTGGGCTTGCTGTACA [8325]
Mmu AAAAAGTATCTACGGGAGGCT--TTTCGC-GAATCTTTTTTGCGGTCTGGGCTTGCTGTACA [8248]
Mdo AAAAAGTATCTACAGGGGGAC----- [7824]
Meu AAAAAGTATTTACAGGGGGCC--TTTCGC-GAATCTTTTTTGCGGTCTGGGCTTGCTGTATA [6640]
Oan AAAAAGTATCTGCGAGAGACC----- [7130]
Aca AAAAAGTATTTGCGAGGGATC--TTCCCTGGGTCTTTTTGCGGTCTGGGCTTTCTGGGTC [8022]
Pbi AAAAAGTATTTGCGAGGGATC--TTCTCTGGGTCTTTTTGCGGTCTGGGCTTTCTGGGTC [8418]
Cpi AAAAAGTATTTGCGAGGGATA--TTTCGC-GAATCTTTTTTGCGGTCTGGGCTTGCTGTATA [8763]
Cmy AAAAAGTATTTGCGAGGGATA--TTTCGC-GAATCTTTTTTGCGGTCTGGGCTTGCTGTATA [8513]
Psi -----TTTCGC-GAATCTTTTTTGCGGTCTGGGCTTGCTGTATA [7914]
Asp ----- [7539]
Ami AAAAAGTATCCGCGGGGAGC--TTTCGC-GAATCTTTTTTGCGGTCTGGGCTTGCTGTACA [8160]
Asi AAAAAGTATCCGCGGGGAGC----- [8012]
Tgu -----TTTCGC-GAATCTTTTTTGCGGTCTGGGCTTGCTGTACA [6393]
Cli AAAAAGTATCTGCGGGGGGTC--TTTCGC-GAATCTTTTTTGCGGTCTGGGCTTGCTGTACA [8093]
Gga ----- [7395]
Xtr AAAAAGAATTTGCGAGGGAGG--TTCTC-AAATCTTTTTTGCGGTCTGGGCTTGCTGTATG [8023]
Lch AAAAAGTATCTGCGAGGGATA--TCCTC-GAATCTTTTTTGCGGTCTGGGCTTGCTGTAAA [8536]
Dre AAAAAGTATCTGCGAGGGACC--TTCAC-GAATCTTTTTTGCGGTCTGGGCTTGCTGTTCT [7921]

Hsa TAACTCAA----TAGCCGG-AAGCCCTTACCCCAAAAAGCATTTGCGGAGGGCG--GCTG [8378]
Mmu TAACTCAA----TAGCCGG-AAGCCCTTACCCCAAAAAGCATTCGCGGAGGGCG--GCTG [8301]

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Mdo -----ACTC [ 7828 ]
Meu TAACTATG----TAGCCGGGAAGCCCTTACCCCAAAAAGCATTCGAGGAGGACA--ACTC [ 6694 ]
Oan -----GCTC [ 7134 ]
Aca TGTCCAACCCCGTATCAGAAAGCCCTTACCCCAAAAAGCATCCGGGGCTGGAC--GCC [ 8080 ]
Pbi TGTCCAACCCCGTATCAGAAAGCCCTTACCCCAAAAAGCATCCGGGGTGTAC--GCC [ 8475 ]
Cpi TAACTACC----TAGCCGGGAAGCCCTTACCCCAAAAAGCATTCGCGGAGGGCG--GCCG [ 8817 ]
Cmy TAACTACC----TAGCCGGGAAGCCCTTACCCCAAAAAGCATTCGCGGAGGGCG--GCCG [ 8567 ]
Psi TAACTACC----TAGCCGGGAAGCCCTTACCCCAAAAAGCATTCGCGGAGGGCG--GCCG [ 7968 ]
Asp -----GCCG [ 7543 ]
Ami TAACTACC----TAGCCGGGAAGCCCTTACCCCAAAAAGCATTCGCGGAGGGCG--GCC [ 8214 ]
Asi -----GCC [ 8016 ]
Tgu TAACTACC----TACCCGGGAAGCCCTTACCCCAAAAAGCATTCGCGGAGGGCG----- [ 6443 ]
Cli TAACTACC----TACCCGGGAAGCCCTTACCCCAAAAAGCATTCGCGGAGGGCG----- [ 8143 ]
Gga ----- [ 7395 ]
Xtr TAAATACC----TAGCCGGGAAGCCCTTACCCCAAAAAGCATTTGCGGAGGGCG----- [ 8073 ]
Lch TGAATACC----TATCCGGGAAGCCCTTACCCCAAAAAGCATTTGCGGAGGGCG--TTGT [ 8590 ]
Dre CAACTA-----TCAATGGGAAGCCCTTACCCCAAAAAGCATTTGCGGAGGGCG----- [ 7969 ]

Hsa CTGGCCAGAGCTCTTTTTCACATTGTGCTACTGTCTGCACCTGTCACTAGCAGTGCAATGT [ 8438 ]
Mmu CTGGCCGAGCTCTTTTTCACATTGTGCTACTGTCTA-ACGTGTACCGAGCAGTGCAATGT [ 8360 ]
Mdo CTGGCCAGAGCTCTTTTTCACATTGTGCTACTGTCTGCACCTATCACTAGCAGTGCAATGT [ 7888 ]
Meu CTGGCCGGGGCTCTTTTTCACATTGTGCTACTGTCTGCGCTTGTCACTAGCAGTGCAATGT [ 6754 ]
Oan CCGGCCGAGCTCTTTTTCACATTGTGCTACTGTCTGCGCCCGTCACTAGCAGTGCAATGT [ 7194 ]
Aca CTGTCCAAGGCTCTTTTTCACATTGTGCTTCTGTCTGTGCCCCGACCCAAGCAGTGCAATGT [ 8140 ]
Pbi CTGCCCCGAGGCTCTTTTTCACATTGTGCTACTG----AGCCCAACCCAAGCAGTGCAATGT [ 8531 ]
Cpi CCGTCCTGGGCTCTTTTTCACATTGTGCTACTGTCTGAGCCCCTGCCAAGCAGTGCAATGT [ 8877 ]
Cmy CCATCCTGGGCTCTTTTTCACATTGTGCTACTGTCTGAGCCCCTGCCAAGCAGTGCAATGT [ 8627 ]
Psi CCGTCCTGGGCTCTTTTTCACATTGTGCTACTGTCTGAGCCCCTGCCAAGCAGTGCAATGT [ 8028 ]
Asp CCGTCCTGGGCTCTTTTTCACATTGTGCTACTGTCTGAGCCCCTGCCAAGCAGTGCAATGT [ 7603 ]
Ami CTGTCCAAGGCTCTTTTTCACATTGTACTACTGTATGAGCCCCTGCCAAGCAATGCAATGT [ 8274 ]
Asi CTGTCCAAGGCTCTTTTTCACATTGTACTACTATATGAGCCCCTGCCAAGCAATGCAATGT [ 8076 ]
Tgu ----- [ 6443 ]
Cli ----- [ 8143 ]
Gga ----- [ 7395 ]
Xtr ----- [ 8073 ]
Lch GTTGTCTGAACCCCTTTTTCACATTGTACTACTGTATG--CTATCCAAAGGCAGTGCAATAT [ 8648 ]
Dre ----- [ 7969 ]

Hsa TAAAAGGGCATT-GGCCGTGTAG--GGCTGCCCCGACACTCTTTTCCC-TGTTGCACTACT [ 8494 ]
Mmu TAAAAGGGCATC-GGCCTTGTAG--GGCTTGTGGACACTCTTTTCCC-TGTTGCACTACT [ 8416 ]
Mdo AAAAAGGGCATT-GGCTGGGCAG--GGCTGCCCCGAAAGCTCTTTTCCC-TGTTGCCCTGCT [ 7944 ]
Meu AAAAAGGGCATT-GGCTGGGCAG--GGGCTGCCCAAAGCTCTTTTCCC-TGTTGCCCTGCT [ 6810 ]
Oan AATAAGGGGCTTCGGCGGGGCAG----- [ 7217 ]
Aca TAAAAGGGCATT-GGGTGGGTGG--GGGCGTCTGCCACTCTTTTCCCCTGTTGCACTACT [ 8197 ]
Pbi AAAAAGGGCATT-GGGTGGGTGG--GAGCAGTCTGCTACTCTTTTCCCT-TGTTGCGCTACT [ 8587 ]
Cpi CAAAAGGGCATC-GGGCAGGCGG--AGGCAGGCTGCCACTCTTTTCCC-TGTTGCACTACT [ 8933 ]
Cmy CAAAAGGGCATC-GGGCGGGCGG----- [ 8649 ]
Psi CAAAAGGGCATC-GGGCAGGTGG----- [ 8050 ]
Asp CAAAAGGGCATC-GGGCAGGCGG--AGGCAGGCTGCCACTCTTTTCCCCTGTTGCACTACTG [ 7660 ]
Ami AAAAAGGGCATT-GGGTAGGTGG----- [ 8296 ]
Asi AAAAAGGGCATT-GGGTAGGTGG----- [ 8098 ]
Tgu -----GCCGGGCTGCCC-CTCTTTTCCC-TGTTGCACTACT [ 6476 ]
Cli -----GCCGGGCTGCCC-CTCTTTTCCC-TGTTGCACTACT [ 8176 ]
Gga -----GGCGGGCTGCCC-CTCTTTTCCC-TGTTGCACTACT [ 7428 ]
Xtr -----AGGCCGCTGACACTCTTTTCCC-TGTTGCACTACT [ 8107 ]
Lch CAAAAGGGCATT-AGCCATCCTC--GGACTGCCTGTCACTCTTTTCCC-TGTTGCACTACT [ 8704 ]
Dre -----CTGTTGCCCTGACACTCTTTTCCC-TGTTGCACTACT [ 8003 ]
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Hsa AT--AGGCCGCTGGGAAGCAGTGCAATGATGAAAGGGCATCGGTTCAGGT--GCTGGCCGC [8550]
Mmu GT--GGGCCTCTGGGAAGCAGTGCAATGATGAAAGGGCATCTGTTCGGGC--GCTGGCTGC [8472]
Mdo GT----CCGGTACCTAGCAGTGCAATTGTGAAAGGGCATTGGTGAGGC----- [7989]
Meu GT----CCAGTCACTGAGCAGTGCAATTGTGAAAGGGCATTGGTCAGGC----- [6855]
Oan -----GCTGCCGCC [7226]
Aca GTCCAACGTCACAGCTAGCAGTGCAATAATGAAAGGGCGTCAGCCGCTC--GCTGGGATT [8255]
Pbi GTTCAGCTTCGCCTCTAGCAGTGCAATAATGAAAGGGCATCAGCCCTC--GCTGGAACC [8645]
Cpi GTT-AAACTTGTAGCTAGCAGTGCAATAATGAAAGGGCGTCGGTCTGCC--GCTGGTATC [8990]
Cmy -----GCTGGTATC [8658]
Psi -----GCTGGTATC [8059]
Asp TC--AAACTTGTAGCTAGCAGTGCAATAATGAAAGGGCGTCGGTCTGCC--GCTGGTATC [7716]
Ami -----GCTGGTATC [8305]
Asi -----GCTGGTATC [8107]
Tgu GTC-ACGGTCGCAGCGAGCAGTGCAATAATGAAAGGGCGTCAGTGCGCC--GCTGGTATC [6533]
Cli GTC-ACGGTCGCAGCGAGCAGTGCAATAATGAAAGGGCGTCAGTGCGCC--GCTGGTATC [8233]
Gga GTC-ACGGTCGCAGCGAGCAGTGCAATAATGAAAGGGCGTCAGTGCGCC--GCTGGTATC [7485]
Xtr GTG-GCAGTGAATAA-AGCAGTGCAATGATGAAAGGGCATCAGTCTGCA--GCTTGTGTG [8163]
Lch GTG--GAACCTCT--AGCAGTGCAATAATGAAAGGGCGTCAGTCTGCC--GCTGGTGTC [8757]
Dre GTGGGAGCTGCAGCAAAGCAGTGCAATAATGAAAGGGCATCAGTCCACT--GCTAAGGTC [8061]

Hsa AGGTGCTCTGACGAGGTTGCACTACTGTGCTCTGAGA----AGCAGTGCAATGATATTGT [8606]
Mmu GGGTGCTCTGACTAGGTTGCACTACTGTGCTGTGAGA----AGCAGTGCAATGGTATTGT [8528]
Mdo ----- [7989]
Meu ----- [6855]
Oan GGCGGCTCTGACGATATTGCAC-ATAGTGTGCGCTCAGGGAAGCAGTGCAATAGTATTGT [7285]
Aca GATGGCTCTGACAGTGTTGCACTACTGTCTACACAAATTA-AGCAGTGCAATAATATTGT [8314]
Pbi GCTGGCTCTGACAATGTTGCACTACTGTCTTTCACAAATTT-AGCAGTGCAATAATATTGT [8704]
Cpi GCTGGCTCTGACAATGTTGCACTACTGTCTGCACAAATAA-AGCAGTGCAATAATATTGT [9049]
Cmy GCTGGCTCTGACAATGTTGCACTACTGTCTGCACAAATAA-AGCAGTGCAATAATATTGT [8717]
Psi GCTGGCTCTGACAATGTTGCACTACTGTCTGCACAAATAA-AGCAGTGCAATAATATTGT [8118]
Asp GCTGGCTCTGACAATGTTGCACTACTGTCTGCACAAATAA-AGCAGTGCAATAATATTGT [7775]
Ami GCTGGCTCTGACAATGTTGCACTACTGTCTGCACAAATAA-AGCAGTGCAATAATATTGT [8364]
Asi GCTGGCTCTGACAATGTTGCACTACTGTCTGCACAAATAA-AGCAGTGCAATAATATTGT [8166]
Tgu GCTGGCTCTGACAATGTTGCACTACTGTCTGCACAAATAA-AGCAGTGCAATAATATTGT [6592]
Cli GCTGGCTCTGACAATGTTGCACTACTGTCTGCACAAATAA-AGCAGTGCAATAATATTGT [8292]
Gga GCTGGCTCTGACAATGTTGCACTACTGTCTGCACAAATAA-AGCAGTGCAATAATATTGT [7544]
Xtr AATTGCTCTGACAGTGTTGCACTACTGTGATCTCAAATGA-AGCAGTGCAATAGTATTGT [8222]
Lch AGCTGCTCTGACAGTGTTGCACTACTGTATACACAAGTTA-AGCAGTGCAATAGTATTGT [8816]
Dre TGTTGCTTTGACGATGTTGCACTACTGAACCATCTAATCA-AGCAGTGCAATAGTATTGT [8120]

Hsa CAAAGCATCTGGGACCAGC----- [8625]
Mmu CAAAGCATCTGGGACCAGC----- [8547]
Mdo ----- [7989]
Meu ----- [6855]
Oan CAAAGCATC-GAATCCACC----- [7303]
Aca CAAAGCATTTGGTTCCAGT--GTTGCTGTCCGGAGCCCTTTTTCTGTTGTAATACTACTGGCA [8372]
Pbi CAAAGCATTTGGTTCTAGT--CTTGTGCGTCCGTGTCCTTTTTCTGTTGTAATACTACTGGGA [8762]
Cpi CAAAGCATTTGGTTCCAGT--ACTGTTGTCCAGAGCCCTTTTTCTGTTGTAATACTACTGGCA [9107]
Cmy CAAAGCATTTGGTTCCAGT--ACTGTTGTCCAGAGCCCTTTTTCTGTTGTAATACTACTGGCA [8775]
Psi CAAAGCATTTGGTTCCAGT--ACTGTTGTCCAGAGCCCTTTTTCTGTTGTAATACTACTGGCA [8176]
Asp CAAAGCATTTGGTTCCAGT--ACTGTTGTCCAGAGCCCTTTTTCTGTTGTAATACTACTGGCA [7833]
Ami CAAAGCATTTGGTTCCAGT--GCTGTTGTCCAGAGCCCTTTTTCTGTTGTAATACTACTGGCA [8422]
Asi CAAAGCATTTGGTTCCAGT--GCTGTTGTCCAGAGCCCTTTTTCTGTTGTAATACTACTGGCA [8224]
Tgu CAAAGCATTTGGTTCCAGT--GCTGTTGTCCAGAGCCCTTTTTCTGTTGTAATACTACTGGCA [6650]
Cli CAAAGCATTTGGTTCCAGT--GCTGTTGTCCAGAGCCCTTTTTCTGTTGTAATACTACTGGCA [8350]
Gga CAAAGCATTTGGTTCCAGT--GCTGTTGTCCAGAGCCCTTTTTCTGTTGTAATACTACTGGCA [7602]

Xtr CAAAGCATTTTCATTCCAGC--CCTGTTATCCGTGGCCCTTTTTCTGTTGTACTACTGGAA [8280]
Lch CAAAGCATCTGGGCCAGT--ACTGTTGGCCAGGGCCCTTTTTCTGTTGTACTACTGGAA [8874]
Dre CATTGCATTTCGGCTTTTCGC--TGTTTTGTCCATTGCCCTTTTTCTGTTGTACTACTGGCC [8178]

Hsa ----- [8625]
Mmu ----- [8547]
Mdo -----TTGTCTAGTGCCCT [8003]
Meu ----- [6855]
Oan -----CTGTCTAGTGCCCT [7317]
Aca AGTATGAGTAGCAGTGCAATATTTAAAAGGGCATTGGCTGGCAGG--CTGTCCACTGCCCT [8430]
Pbi GCTCTCATTAGCAGTGCAATATTTAAAAGGGCATTGGCTGGCAGA--CTGTCCACTGCCCT [8820]
Cpi ATTATGATGAGCAGTGCAATATTTAAAAGGGCATTGGCTGGCAGA--CTGTCCAGTGCCCT [9165]
Cmy ATTATGATGAGCAGTGCAATATTTAAAAGGGCATTGGCTGGCAGA--CTGTCCAGTGCCCT [8833]
Psi ATTATGATGAGCAGTGCAATATTTAAAAGGGCATTGGCTGGCAGA--CTGTCCAGTGCCCT [8234]
Asp ATTATGATGAGCAGTGCAATATTTAAAAGGGCATTGGCTGGCAGA--CTGTCCAGTGCCCT [7891]
Ami ATTATGATGAGCAGTGCAATATTTAAAAGGGCATTGGCTGGCAGA--CTGTCCAGTGCCCT [8480]
Asi ATTATGATGAGCAGTGCAATATTTAAAAGGGCATTGGCTGGCAGA--CTGTCCAGTGCCCT [8282]
Tgu ATTATGATGAGCAGTGCAATATTTAAAAGGGCATTGGCTGGCAGA--CTGTCCAGTGCCCT [6708]
Cli ATTATGATGAGCAGTGCAATATTTAAAAGGGCATTGGCTGGCAGA--CTGTCCAGTGCCCT [8408]
Gga ATTATGATGAGCAGTGCAATATTTAAAAGGGCATTGGCTGGCAGA--CTGTCCAGCGCCCT [7660]
Xtr TTTGTAATTAGCAGTGCAATATTTAAAAGGGCATTGGCTGACAGA--CTGTCCAGTGCCCT [8338]
Lch ATTAAGATGAGCAGTGCAATATTTAAAAGGGCATTGGCTGGCAGA--CTGTCCAGCGCCCT [8932]
Dre AATCAGAAGAGCAGTGCAATATTTAAAAGGGCATTGGCTGATAGA--CTGTCCAGTGCCCT [8236]

Hsa ----- [8625]
Mmu ----- [8547]
Mdo TTTTATGTTGTACTACTAGTGATCCTGCACAAGAA--GCAGTGCAATGTTAAAAGGGCAT [8061]
Meu ----- [6855]
Oan TTTTATGTTGTACTACTAGTGATCCTGCACAAAAA--GCAGTGCAATGTTAAAAGGGCAT [7375]
Aca TTTTATGTTGTACTACTAGTGAACATGCGCAAAAAA--GCAGTGCAATGTTAAAAGGGCAT [8488]
Pbi TTTTATGTTGTACTACTAGTGAACACACACAAAAA--GCAGTGCAATGTTAAAAGGGCAT [8878]
Cpi TTTTATGTTGTACTACTAGTGATCATAACACAAAAA--GCAGTGCAATGTTAAAAGGGCAT [9223]
Cmy TTTTATGTTGTACTACTAGTGATCATGCACAAAAA--GCAGTGCAATGTTAAAAGGGCAT [8891]
Psi TTTTATGTTGTACTACTAGTGATCATGCACAAAAA--GCAGTGCAATGTTAAAAGGGCAT [8292]
Asp TTTTATGTTGTACTACTAGTGATCATGCACAAAAA--GCAGTGCAATGTTAAAAGGGCAT [7949]
Ami TTTTATGTTGTACTACTAGTGATCGTGCACAAAAA--GCAGTGCAATGTTAAAAGGGCAT [8538]
Asi TTTTATGTTGTACTACTAGTGATCGTGCACAAAAA--GCAGTGCAATGTTAAAAGGGCAT [8340]
Tgu TTTTATGTTGTACTACTGGTGATGATGCACAAAAA--GCAGTGCAATGTTAAAAGGGCAT [6766]
Cli TTTTATGTTGTACTACTGGTGATCATGCACAAAAA--GCAGTGCAATGTTAAAAGGGCAT [8466]
Gga TTTTATGTTGTACTACTAGTGATCATAACAAA---GCAGTGCAATGTTAAAAGGGCAT [7716]
Xtr TTTTATGTTGTACTACTAGTGGTGCACACACAAAAAAGCAGTGCAATGTTAAAAGGGCAT [8398]
Lch TTTTATGTTGTACTACTGGTGACAATAATAAAAA--GCAGTGCAATGTTAAAAGGGCAT [8990]
Dre TTTTATATTGTACTACTGATAACCCAGTTATTTAAA--GCAGTGCAATGTTAAAAGGGCAT [8294]

Hsa -----CTGCTAACGAATGCTCTGACTTTTATTGCACTACTGTACTTTACAGCTAG [8674]
Mmu -----CTGCTAACGGCTGCTCTGACTTTTATTGCACTACTGTACTTTACAGCGAG [8596]
Mdo TGGCCAGTG--CTGCTAACGAATGCTCTGACTTTTATTGCACTACTGTACTTTACAGCTAG [8119]
Meu ----- [6855]
Oan TGGCCAGTG--CTGCTAACGAATGCTCTGACTTTTATTGCACTACTGTTCTTTACAGCTAG [7433]
Aca TGGCCAGCA--CTGCGGACAAGGGCTCTGACTTCATTGCACTACTGTACTTTCCCAACTAG [8546]
Pbi TGGCCAGCA--CTGCTGACAAGTCTCTGACTTCATTGCACTACTGTACTTTCCAGCTAG [8936]
Cpi TGGCCAGTG--CTGCTAACGAATGCTCTGACTTTTATTGCACTACTGTACTTTACAGCTAG [9281]
Cmy TGGCCAGTG--CTGCTAACGAATGCTCTGACTTTTATTGCACTACTGTACTTTACAGCTAG [8949]
Psi TGGCCAGTG--CTGCTAACGAATGCTCTGACTTTTATTGCACTACTGTACTTTACAGCTAG [8350]
Asp TGGCCAGTG--CTGCTAACGAATGCTCTGACTTTTATTGCACTACTGTACTTTACAGCTAG [8007]
Ami TGGCCAGCA--CTGCTAACGAATGCTCTGACTTTTATTGCACTACTGTACTTTACAGCTAG [8596]
Asi TGGCCAGCA--CTGCTAACGAATGCTCTGACTTTTATTGCACTACTGTACTTTACAGCTAG [8398]

Tgu TGGCCAGCA--CTGCTAACGAGTGTCTGACTTTTATTGCACTACTGTACTATAACAGAGAG [6824]
Cli TGGCCAGCA--CTGCTAACGAACGCTCTGACTTTTATTGCACTACTGTACTTCCCAGCTAG [8524]
Gga TGGCCAGCA--CTGCTAACGAATGTCTGACTTTTATTGCACTACTGTACTTCACAGCTAG [7774]
Xtr TGGCCAGGG--CTGCTAATGTGTGCTCTGACTTTTATTGCACTACTGTACTATAACAGCTAG [8456]
Lch TGGCCAGTT--CTGCTGATGGGTGTCTGACTTTTATTGCACTACTGTGGTTTACATCAAG [9048]
Dre TGGCCAGGG--CTGTTAACAGGTGTCTGACTTCATTGCACTACTGTATTGGACAGCTAG [8352]

Hsa CAGTGCAATAGTATTGTCAAAGCATCTGAAAGCAG--CGTCTCCAGGGCAACCGTGGCTTT [8732]
Mmu CAGTGCAATAGTATTGTCAAAGCATCCGCGAGCAG--CGTCTCCAGGGCAACCGTGGCTTT [8654]
Mdo CAGTGCAATAGTATTGTCAAAGCATCTGAAAGCAG--CGTCTCCAGGGCAACCGTGGCTTT [8177]
Meu -----CGTCTCCAGGGCAACCGTGGCTTT [6878]
Oan CAGTGCAATAGTATTGTCAAAGCATCTGAAAGCAG----- [7468]
Aca CAGTGCAATAGTATTGTCAAAGCACTTGCAAGCAG--CGTCTCCAGGGCAACCGTGGCTTT [8604]
Pbi CAGTGCAATAGTATTGTCAAAGCACTTGCGAGCAG--CGTCTCCAGGGCAACCGTGGCTTT [8994]
Cpi CAGTGCAATAGTATTGTCAAAGCATCTGAAAGCAG--TGTCTCCAGGGCAACCGTGGCTTT [9339]
Cmy CAGTGCAATAGTATTGTCAAAGCATCTGAAAGCAG--TGTCTCCAGGGCAACCGTGGCTTT [9007]
Psi CAGTGCAATAGTATTGTCAAAGCATCTGAAAGCAG--TGTCTCCAGGGCAACCGTGGCTTT [8408]
Asp CAGTGCAATAGTATTGTCAAAGCATCTGAAAGCAG--TGTCTCCAGGGCAACCGTGGCTTT [8065]
Ami CAGTGCAATAGTATTGTCAAAGCATCTGAAAGCAG--CGTCGCCAGGGCAACCGTGGCTTT [8654]
Asi CAGTGCAATAGTATTGTCAAAGCATCTGAAAGCAG----- [8433]
Tgu CAGTGCAATAGTATTGTCAAAGCATCTGAGAGCAG----- [6859]
Cli CAGTGCAATAGTATTGTCAAAGCATCCGAAAGCAG--CGCCGCCCGGGCGACCGTGGCTTT [8582]
Gga CAGTGCAATAGTATTGTCAAAGCATCTGAAAGCAG----- [7809]
Xtr CAGTGCAATAGTATTGTCAAAGCATCTGCAAGCAG--TGTCTCCAGGGCAACCGTGGCTTT [8514]
Lch CAGTGCAATAGTATTGTCAAAGCATCTAAAAGCAG--GGTCTCCGAGGCAACCGTGGCTTT [9106]
Dre CAGTGCAATAGTATTGTCAAAGCGTCTGAGAGCAG--TGTCTCCATGGCGACCGTGGCAT [8410]

Hsa TCGATTGTTACTGTG--GGAACCTGGA---GGTAACAGTCTACAGCCATGGTCGCC---CC [8784]
Mmu TCGATTGTTACTGTG--GGAACCGGA---GGTAACAGTCTACAGCCATGGTCGCC---CC [8706]
Mdo TCGATTGTTACTGTG--GGAACCAGG---GGTAACAGTCTACAGCCATGGTCGCC---CC [8229]
Meu TCGATTGTTACTGTG--GGAACCGGG---GGTAACAGTCTACAGCCATGGTCGCC---CC [6930]
Oan ----- [7468]
Aca TAGATTGTTACTGTGCGGACGTGGGTTT--GGTAACAGTCTACAGCCATGGTTGGT---CC [8660]
Pbi TAGATTGTTACTGTGTGGATGTGGGCT--GGTAACAGTCTACAGCCATGGTTGCCT--GG [9050]
Cpi TAGATTGTTACTGTG--GTTGTGTGTT--GGTAACAGTCTACAGCCATGGTCGCTT--GG [9393]
Cmy TAGATTGTTACTGTG--GTTGTGTGTC--GGTAACAGTCTACAGCCATGGTCGCTT--GG [9061]
Psi TAGATTGTTACTGTG---TCTTGTGTT--GGTAACAGTCTACAGCCATGGTCGCTT--GG [8461]
Asp TAGATTGTTACTGTG---GCTTGTGTT--GGTAACAGTCTACAGCCATGGTCGCTT--GG [8118]
Ami TAGATTGTTACTGTG---TGGTGCCTG--GGTAACAGTCTACAGCCATGGTCGCT--GG [8706]
Asi ----- [8433]
Tgu ----- [6859]
Cli TAGATTGTTACTGTG--CCGCTGGGGG--GGTAACAGTCTACAGCCATGGTCGCC---GG [8635]
Gga ----- [7809]
Xtr TAGATTGTTACTGTGTA--GTTCTGCATT--GGTAACAGTCTACAGCCATGGTCGCTC--GG [8568]
Lch TAGATTGTTACTGTGTA--TGATGCAGT--GGTAACAGTCTACAGCCATGGTCGTTTC--GG [9160]
Dre TAGATTGTTACTGTAGGAACAGAATTTTTGGTAACAGTCTACAGCCATGGTCGCTAGTGG [8470]

Hsa GCAGCAGC--ACAGCGCGCCGGCACCTTGGCTCTAGACTGCTTACTGC-----CCGGGCC [8837]
Mmu GCAGCAGC--GCAGCGCGCCGGCACCTTGGCTCTAGACTGCTTACTGC-----CCGGGCC [8759]
Mdo GCAGCAGC--GCAGCGCGCCGGCACCTTGGCTCTAGACTGCTTACTGC-----CCGGGCC [8282]
Meu GCAGCAGC--GCAGCGCGCCGGCACCTTGGCTCTAGACTGCTTACTGC-----CCGGGCC [6983]
Oan ----- [7468]
Aca GCGCGACG--CCAGCGTGCCGGGACCTTGGCTCTAGACTGCTTACTGCGAAATCCAAGGG [8718]
Pbi AGTGGACG--TCAGTTCGTGCGGGACCTTGGCTCTAGACTGCTTACTGCTACAGGCAATGA [9108]
Cpi GCTAGACA--TCAGCGCGTTCGGCACCTTGGCTCTAGACTGATTACTGCTAAGTAGCATTA [9451]
Cmy GCCAGACG--TCAGCGCGTTCGGCACCTTGGCTCTAGACTGATTACTGCTAAAATAGCGTTC [9119]
Psi GCCAGACG--TCAGCGCGTTCGGCACCTTGGCTCTAGACTGCTTACTGCTACGTAGCGTGA [8519]

Asp GCCAGACG----- [8126]
Ami GCCGGACG--TCAGCGCGTCGGCACCTTGGCTCTAGACTGCTTACTGCTGAGCACGGCGA [8764]
Asi ----- [8433]
Tgu ----- [6859]
Cli GACAGGCG--TCAGAGCGTCGGCACCTTGGCTCTAGACTGCTTACTGCTGCGTAGGG--A [8691]
Gga ----- [7809]
Xtr GCAAGATG--TCATTGCATCGGCACCTTGGCTCTAGACTGCTTACTGTGAAACTGTGCTA [8626]
Lch GTAAGACG--TCAGAGCGTCAACACCTTGGCTCTAGACTGCTTACTGCTAAATGTTGTGA [9218]
Dre GCAGAAAC--TCAGAACTTCATGACCTTGGCTCTAGACTGCTTACTGCTTATGGAGTCCG [8528]

Hsa GCCCT-CAGTAACAGTCTCCAGTACACGGCCACCGACGCCTGGCCC--AATGCTTTGCTAG [8894]
Mmu GCCTT-CAGTAACAGTCTCCAGTACACGGCCACCGACGCCTGGCCC--AATGCTTTGCTGA [8816]
Mdo ACCCT-CAGTAACAGTCTCCAGTACACGGCCACCGACGCCTGGCCC--AATGCTTTGCTAA [8339]
Meu ACCCT-CAGTAACAGTCTCCAGTACACGGCCACCGACGCCTGGCCC--AATGCTTTGCTAA [7040]
Oan -----AATGCTTTGCTAA [7481]
Aca GCGAAACAGTAACAGTCCACAGTCATGGCTACTGACGGCTGGCGG--AATGCTTTGCTAA [8776]
Pbi GAGACACAGTAACAGTCTACAGTCATGGCTACTGAAGTCTGGCAG--AATGCTTTGCTAA [9166]
Cpi AAGAAACAGTAACAGTCTACAGTCATGGCTACTGAAGCATGACAG--AATGCTTTGCTAA [9509]
Cmy AGGAAACAGTAACAGTCTACAGTCATGGCTACTGAAGCATGACAG--AATGCTTTGCTAA [9177]
Psi GAGACACAGTAACAGTCTACAGTCATGGCTACTGAAGCATGACAG--AATGCTTTGCTAA [8577]
Asp -----AATGCTTTGCTAA [8139]
Ami CCGGAACAGTAACAGTCTACAGTCATGGCTACTGAAGCATGACAG--AATGCTTTGCTAA [8822]
Asi -----AATGCTTTGCTAA [8446]
Tgu -----AATGCTTTGCTAA [6872]
Cli CAGGA-CAGTAACAGTCTACAGTCATGGCTACTGAAGCATGACCC--AATGCTTTGCTAA [8748]
Gga -----AATGCTTTGCTAA [7822]
Xtr TAGGAACAGTAACAGTCTACAGTCATGGCTACTGACGTATGACTG--AATGCTTTGCTAA [8684]
Lch AAGATACAGTAACAGTCTACAGTCATGGCTACTGAAGCATGACAA--AATGCTTTGCTAA [9276]
Dre ACAGTACAGTAACAGTCTACAGTCATGGCTACTGAAGTCTGGCTC--AATGCTTTGCTAA [8586]

Hsa AGCTGGTAAAAATGGAACCAAATCGACTGTCCAATGGATTTGGTCCCCTTCAACCAGCTGT [8954]
Mmu AGCTGGTAAAAATGGAACCAAATCAGCTGTTGGATGGATTTGGTCCCCTTCAACCAGCTGT [8876]
Mdo AGCTGGTAAAAAGGAACCAAATCACCTGTGCGATGGATTTGGTCCCCTTCAACCAGCTGT [8399]
Meu AGCTGGTAAAAAGGAACCAAATCACCTGTGCGATGGATTTGGTCCCCTTCAACCAGCTGT [7100]
Oan AGCTGGTAAAAATGGAACCAAATCAACTGTTCAATGGATTTGGTCCCCTTCAACCAGCTGT [7541]
Aca AGCTGGTAAAAATGGAACCAAATCAACTGTTCAATGGATTTGGTCCCCTTCAACCAGCTGT [8836]
Pbi AGCTGGTAAAAATGGAACCAAATCAACTGTTCAATGGATTTGGTCCCCTTCAACCAGCTGT [9226]
Cpi AGCTGGTAAAAATGGAACCAAATCAACTGTTCAATGGATTTGGTCCCCTTCAACCAGCTGT [9569]
Cmy AGCTGGTAAAAATGGAACCAAATCAACTGTTCAATGGATTTGGTCCCCTTCAACCAGCTGT [9237]
Psi AGCTGGTAAAAATGGAACCAAATCAACTGTTCAATGGATTTGGTCCCCTTCAACCAGCTGT [8637]
Asp AGCTGGTAAAAATGGAACCAAATCAACTGTTCAATGGATTTGGTCCCCTTCAACCAGCTGT [8199]
Ami AGCTGGTAAAAATGGAACCAAATCAACTGTTCAATGGATTTGGTCCCCTTCAACCAGCTGT [8882]
Asi AGCTGGTAAAAATGGAACCAAATCAACTGTTCAATGGATTTGGTCCCCTTCAACCAGCTGT [8506]
Tgu AGCTGGTAAAAATGGAACCAAATCAACTGTTCAATGGATTTGGTCCCCTTCAACCAGCTGT [6932]
Cli AGCTGGTAAAAATGGAACCAAATCAACTGTTCAATGGATTTGGTCCCCTTCAACCAGCTGT [8808]
Gga AGCTGGTAAAAATGGAACCAAATCAACTGTTCAATGGATTTGGTCCCCTTCAACCAGCTGT [7882]
Xtr AGCTGGTAAAAATGGAACCAAATCAACTGTTGAATGGATTTGGTCCCCTTCAACCAGCTGC [8744]
Lch AGCTGGTAAAAATGGAACCAAATCAACTGTTCTATGGATTTGGTCCCCTTCAACCAGCTGT [9336]
Dre AGCTGGTAAAAATGGAACCAAATCAACTGTTTATGGATTTGGTCCCCTTCAACCAGCTGT [8646]

Hsa AGCTGTGCATTG--AATGCTTTGCTAGAGCTGGTAAAAATGGAACCAAATCGCCTCTTCAA [9012]
Mmu AGCTGCGCATTG--AATGCTTTGCTAAAGCTGGTAAAAATGGAACCAAATCGCCTCTTCAA [8934]
Mdo AGCTGTGCATTA--AATGCTTTGCTAAAGCTGGTAAAAATGGAACCAAATCACCTATTCAA [8457]
Meu AGCTGTGCATTA--AATGCTTTGCTAAAGCTGGTAAAAATGGAACCAAATCACCTATTCAA [7158]
Oan AGCTGCGCATTG--AATGCTTTGCTAAAGCTGGTAAAAATGGAACCAAATCACCTCTTCAA [7599]
Aca AGCTGTGCATTG--GATGCTTTGCTAAAGCTGGTAAAAATGGAACCAAATCACCTGTTAAA [8894]
Pbi AGCTGTGCATTG--AATGCTTTGCTTAAAGCTGGTAAAAATGGAATCAAATCACATGTTTAA [9284]

Cpi AGCTGTGCATTG--AATGCTTTGCTAAAGCTGGTAAAATGGAACCAAATCACCTCTTCAA [9627]
Cmy AGCTGTGCATTG--AATGCTTTGCTAAAGCTGGTAAAATGGAACCAAATCACCTCTTCAA [9295]
Psi AGCTGTGCATTG--AATGCTTTGCTAAAGCTGGTAAAATGGAACCAAATCACCTCTTCAA [8695]
Asp AGCTGTGCATTG--AATGCTTTGCTAAAGCTGGTAAAATGGAACCAAATCACCTCTTCAA [8257]
Ami AGCTGTGCATTG--AATGCTTTGCTAAAGCTGGTAAAATGGAACCAAATCACCTGTTCAA [8940]
Asi AGCTGTGCATTG--AATGCTTTGCTAAAGCTGGTAAAATGGAACCAAATCACCTGTTCAA [8564]
Tgu AGCTGTGCATTG--AATGCTTTGCTAAAGCTGGTAAAATGGAACCAAATCACCTCTTCAA [6990]
Cli AGCTGTGCATTG--AATGCTTTGCTAAAGCTGGTAAAATGGAACCAAATCACCTCTTCAA [8866]
Gga AGCTGTGCATTG--AATGCTTTGCTAAAGCTGGTAAAATGGAACCAAATCACCTCTTCAA [7940]
Xtr AGCTGTGCATTG--AATGCTTTGCTAAAGCTGGTAAAATGGAACCAAATCACCTCTTCAA [8802]
Lch AGCTGTGCATTG--AATGCTTTGCTAAAGCTGGTAAAATGGAACCAAATCACCTCTTCAA [9394]
Dre AGCTGTGCATTG--AATGCTTTGCTAAAGCTGGTAAAATGGAACCAAATCACCTCTTCAA [8704]

Hsa TGGATTTGGTCCCCTTCAACCAGCTGTAGCTATGCATTG--TGCCCCCTGCTCTGGCTGG [9070]
Mmu TGGATTTGGTCCCCTTCAACCAGCTGTAGCTATGCATTG--GGCCCCCTGCTCTGGCTGG [8992]
Mdo TGGATTTGGTCCCCTTCAACCAGCTGTAGCTATGCATTG--TGCACCTTGTCTGGCTGG [8515]
Meu TGGATTTGGTCCCCTTCAACCAGCTGTAGCTATGCATTG----- [7197]
Oan TGGATTTGGTCCCCTTCAACCAGCTGTAGCTATGCATTG--TGAACCCTGCTCTGGCTGG [7657]
Aca TGGATTTGGTCCCCTTCAACCAGCTGTAGCTATGTATTG--TGAGTCCTGCTCTGGCTGG [8952]
Pbi TGGATTTGGTCCCCTTCAACCAGCTGTAGCTATGTATTG--AGAGCATTGCTCTGGCTGG [9342]
Cpi TGGATTTGGTCCCCTTCAACCAGCTGTAGCTATGCATTG--TGCACCCTGCTCTGGCTGG [9685]
Cmy TGGATTTGGTCCCCTTCAACCAGCTGTAGCTATGCATTG--TGCACCCTGCTCTGGCTGG [9353]
Psi TGGATTTGGTCCCCTTCAACCAGCTGTAGCTATGCATTG--TGCACCCTGCTCTGGCTGG [8753]
Asp TGGATTTGGTCCCCTTCAACCAGCTGTAGCTATGCATTG--TGCACCCTGCTCTGGCTGG [8315]
Ami TGGATTTGGTCCCCTTCAACCAGCTGTAGCTATGCATTG--TGCACTCTGCTGTGGCTGG [8998]
Asi TGGATTTGGTCCCCTTCAACCAGCTGTAGCTATGCATTG--TGCACTCTGCTGTGGCTGG [8622]
Tgu TGGATTTGGTCCCCTTCAACCAGCTGTAGCTATGCATTG--TATGCTCTGCTCTGGCTGG [7048]
Cli TGGATTTGGTCCCCTTCAACCAGCTGTAGCTATGCATTG--TATGCTCTGCTCTGGCTGG [8924]
Gga TGGATTTGGTCCCCTTCAACCAGCTGTAGCTATGCATTG--TATGCTCTGCTCTGGCTGG [7998]
Xtr TGGATTTGGTCCCCTTCAACCAGCTGTAGGATTGCATTG--TACAGGCTGCTATGGCTGG [8860]
Lch TGGATTTGGTCCCCTTCAACCAGCTGTAGCTATGCATTG----- [9433]
Dre TGGATTTGGTCCCCTTCAACCAGCTGTAGCTATGCTTTG--CACGCCTTGTCTGTGGCTGG [8762]

Hsa TCAAACGGAACCAAGTCCG-TCTTCCTGAGAGGTTTGGTCCCCTTCAACCAGCTACAGCA [9129]
Mmu TCAAACGGAACCAAGTCCG-TCTTCCTGAGAGGTTTGGTCCCCTTCAACCAGCTACAGCA [9051]
Mdo TCAAACGGAACCAAGTCCG-TCTGACTGAGAGGTTTGGTCCCCTTCAACCAGCTACAGCA [8574]
Meu ----- [7197]
Oan TCAAACGGAACCAAGTCCG-TCTGCCTGAGAGGTTTGGTCCCCTTCAACCAGCTACAGCG [7716]
Aca TCAAAGGGAACCAAGGCTG-TCTTCCTTGAAGGTTTGGTCCCCTTCAACCAGCTACAGCA [9011]
Pbi TCAAAAAGGAACCAAGGCCG-TCTTTCCTGGAGGTTTGGTCCCCTTCAACCAGCTATAGCA [9401]
Cpi TCAAACGGAACCAAGTCCG-TCTTCCTTGGAGGTTTGGTCCCCTTCAACCAGCTACAGCA [9744]
Cmy TCAAACGGAACCAAGTCCG-TCTTCCTTGGAGGTTTGGTCCCCTTCAACCAGCTACAGCA [9412]
Psi TCAAACGGAACCAAGTCCG-TCTTCCTTGAAGGTTTGGTCCCCTTCAACCAGCTACAGCA [8812]
Asp TCAAACGGAACCAAGTCCG-TCTTCCTTGGAGGTTTGGTCCCCTTCAACCAGCTACAGCA [8374]
Ami TCAAACGGAACCAAGTCCG-TCTTCCTTGGAGGTTTGGTCCCCTTCAACCAGCTATAGCA [9057]
Asi TCAAACGGAACCAAGTCCG-TCTTCCTTGGAGGTTTGGTCCCCTTCAACCAGCTATAGCA [8681]
Tgu TCAAACGGAACCAAGCCCG-TCTTCCTCGGAGGTTTGGTCCCCTTCAACCAGCTATAGCA [7107]
Cli TCAAACGGAACCAAGCCCA-TCTTCCTCGGAGGTTTGGTCCCCTTCAACCAGCTATAGCA [8983]
Gga TCAAACGGAACCAAGCCCG-TCTTCCTCGGAGGTTTGGTCCCCTTCAACCAGCTATAGCA [8057]
Xtr TCAAACGGAACCAAGTCCG-TCTTCCTTAGAGGTTTGGTCCCCTTCAACCAGCTATTGCA [8919]
Lch ----- [9433]
Dre TCAAATGGAACCAAGTCAAGGTGTTTCTGCGAGGTTTGGTCCCCTTCAACCAGCTACTGCG [8822]

Hsa GGGCTGG----- [9136]
Mmu GGGCTGG----- [9058]
Mdo GGGCTGA----- [8581]
Meu ----- [7197]

Oan GGGCCGA--GGCCAGCTGCTGGGGCTGGTCAAAAAGGAACCAGATCGCCTC--TCCACCTGA [7773]
Aca GTCCTGA--TATGTGTCCCTAGGGCTGGTAAAAAGGAACCAGATCGACTG--GCAACTGGA [9068]
Pbi GTGCTGA--CTTGTGCTCCTGGGGCTGGTAAAAAGGAACCAGATCGACTG--GCAACTG-A [9457]
Cpi GTGCTGA--AGTGTGTCCCTGGGGCTGGTAAAAAGGAACCAGATCAACTT--GGAACTGGA [9801]
Cmy GTGCTGA--AGTGTGTCCCTGGGGCTGGTAAAAAGGAACCAGATCAACTT--GGAACTGGA [9469]
Psi GTGCTGA--AGTGCCTCCCTGGGGCTGGTAAAAAGGAACCAGATCAACCT--GGAAATGGA [8869]
Asp GTGCTGA--AGTGCCTCCCTGGGGCTGGTAAAAAGGAACCAGATCAACCT--GGAAATGGA [8431]
Ami GTGCTGA--AGTGTGTCCCTGGGGCTGGTAAAAAGGAACCAGATCAACTT--GGAACTGGA [9114]
Asi GTGCTGA----- [8688]
Tgu GTGTGGA----- [7114]
Cli GTGTTGA--GGTGCCTCCCTGGGGCTGGTAAAAAGGAACCAGATCAACTT--GCAACTGGA [9040]
Gga GTGTTGA--GGTGCCTCCCTGGGGCTGGTAAAAAGGAACCAGATCAACT--ACA ACTGGA [8113]
Xtr G TACTGA--GCTGTCTGGTTGCGGCTGGTAAAAAGGAACCACATCAACCCAGAAAAAGGA [8977]
Lch -----AATGCTTTGCTGAAGCTGGTAAAAAGGAACCAGATCAACTT--TCTATTGGA [9483]
Dre TCGTGAA----- [8829]

Hsa -----GGCCTCGCTGTTCTCTATGGCTT [9159]
Mmu -----GGCCTCACTGTTCTCTATGGCTT [9081]
Mdo ----- [8581]
Meu ----- [7197]
Oan TTTGGTCCCCTTCAACCGGCTGCAGCGGGTTGCCG--GGCCCCGCTGTGCTCTATGGCTT [7831]
Aca TTTGGTCCCCTTCAACCAGCTGTGGTGGCAGCTGA--TGCCCCATTGTCTTCTATGGCTT [9126]
Pbi TTTGGTCCCCTTCAACCAGCTGGGGGGGCACAAAC--TATCCCATTGTCTTCTATGGCTT [9515]
Cpi TTTGGTCCCCTTCAACCAGCTGCAGTGGCGCATAAC--TGTCCCCTGTCTTCTATGGCTT [9859]
Cmy TTTGGTCCCCTTCAACCAGCTGCAGTGGCGCATAAC--TGTCCCCTGTCTTCTATGGCTT [9527]
Psi TTTGGTCCCCTTCAACCAGCTGCAGTGGCGCATAAC--GGTCCCATTGTCTTCTATGGCTT [8927]
Asp TTTGGTCCCCTTCAACCAGCTGCAGTGGCGCATAAC--GGTCCCATTGTCTTCTATGGCTT [8489]
Ami TTTGGTCCCCTTCAACCAGCTGTAGTGGCACAATAA--GGTCCCCTGTGTTATATGGCTT [9172]
Asi -----GGTCCCCTGTGTTATATGGCTT [8711]
Tgu -----CAGCCTGCCGCTTGTATGGCTT [7137]
Cli TTTGGTCCCCTTCAACCAGCTGCAGCGGGCAGTGT--TGGCCTGCTGTCTTGTATGGCTT [9098]
Gga TTTGGTCCCCTTCAACCAGCTGCAGTGGGGCACGA--CGCCTCACTGTCTTGTATGGCTT [8171]
Xtr TTTGGTCCCCTTCAACCAGCCGCAACTGGTCAGGA----- [9012]
Lch TTTGGTCCCCTTCAACCAGCTGTAGCTGTGCATTT--CTATCCATCATGCTGTATGGCTT [9541]
Dre -----TTGCTCTTTGCCCGTATGGCTT [8852]

Hsa TTTATTCCCTATGTGATTCTACTGCTCA--CTCATATAGGGATTGGAGCCGTGGCGCACGG [9217]
Mmu TTTATTCCCTATGTGATTCTATTGCTCG--CTCATATAGGGATTGGAGCCGTGGCGTACGG [9139]
Mdo ----- [8581]
Meu ----- [7197]
Oan TTTATTCCCTATGTGATCCTGCTGCTCA--CTCATATAGGGATTGGAGCCGTGCAACACGG [7889]
Aca TTTATTCCCTATGTGATTATATCACTAA--TTTCATATAGGGATTGAAGCCATGTAATACGC [9185]
Pbi TTTATTCCCTATGTGATTATATTGCTAA--TTTCATATAGGGATTGAAGCCATGCAATACAC [9574]
Cpi TTTATTCCCTATGTGATTATACTGCTAA--TTTCATATAGGGATTGAAGCCGTGCAATACGC [9918]
Cmy TTTATTCCCTATGTGATTATACTGCTCA--TTTCATATAGGGATTGAAGCCGTGCAATACGC [9586]
Psi TTTATTCCCTATGTGATTATACTGCTCA--TTTCATATAGGGATTGAAGCCGTGCAATACGC [8986]
Asp TTTATTCCCTATGTGATTATACTGCTCA--TTTCATATAGGGATTGAAGCCGTGCAATACGC [8548]
Ami TTTATTCCCTATGTGATTATACTACTCC--TTTCATATAGGGATTGAAGCCGTGCAATACGC [9231]
Asi TTTATTCCCTATGTGATTATACTACTCC--TTTCATATAGGGATTGAAGCCGTGCAATACGC [8770]
Tgu TTTATTCCCTATGTGATTATACATCCCA--CTTCATATAGGGATTGAAGCCGTGCAGTACGC [7196]
Cli TTTATTCCCTATGTGATTATACATCCCA--CTTCATATAGGGATTGAAGCCGTGCAATACAC [9157]
Gga TTTATTCCCTATGTGATTATACATCCCG--CTTCATATAGGGATTGAAGCCGTGCAAGGCGC [8230]
Xtr ----- [9012]
Lch TTTATTCCCTATGTGATTGTGCTTGTGTATTTTCATATAGGGATTGAAGCCATGAAGTATGG [9601]
Dre TTTATTCCCTATCTGAGAATTGCTCAGG--ACTCATATAGGGATTGAAGCCATGCAGGGCTG [8911]

Hsa CGGGGA--TTCCTCTAGTGTCTTTATGGCTTTTTTATTCCCTATGTGATAGTAATAAAGTCT [9275]

Mmu TGAGGA--TTCACTCTAGTGCTTTATGGCTTTTTATTCCCTATGTGATCGTAATAAAGTCT [9197]
Mdo -----TTCACTCTAGTGCTTTATGGCTTTTTATTCCCTATGTGATAGTAATAAAGTCT [8633]
Meu -----TTCACTCTAGTGCTTTATGGCTTTTTATTCCCTATGTGATAGTAATAAAGTCT [7249]
Oan AGGGGG--TTCACTCTAGTGTTTTATGGCTTTTTATTCCCTATGTGATAGTAATAAAGTCT [7947]
Aca TGGGGA--TTCACTCTAGTGTTTTATGGCTTTTTATTCCCTATGTGATAGTAATAAAGTCT [9243]
Pbi TGGGGA--TTCACTCTAGTGTTTTATGGCTTTTTATTCCCTATGTGATAGTAATAAAGTCT [9632]
Cpi TGGGGC--TTCACTCTAGTGTTTTATGGCTTTTTATTCCCTATGTGATAGTAATAAAGTCT [9976]
Cmy TGGGGC--TTCACTCTAGTGTTTTATGGCTTTTTATTCCCTATGTGATAGTAATAAAGTCT [9644]
Psi TGGGGC--TTCACTCTAGTGTTTTATGGCTTTTTATTCCCTATGTGATAGTAATAAAGTCT [9044]
Asp TGGGGC--TTCACTCTAGTGTTTTATGGCTTTTTATTCCCTATGTGATAGTAATAAAGTCT [8606]
Ami TGGGGA--TTCACTCTAGTGTTTTATGGCTTTTTATTCCCTATGTGATAGTAATAAAGTCT [9289]
Asi TGGGGA--TTCACTCTAGTGTTTTATGGCTTTTTATTCCCTATGTGATAGTAATAAAGTCT [8828]
Tgu CGGGGT--TTCACTCTAGTGTTTTATGGCTTTTTATTCCCTATGTGATAGTAATAAAGTCT [7254]
Cli TGGGGT--TTCACTCTAGTGTTTTATGGCTTTTTATTCCCTATGTGATAGTAATAAAGTCT [9215]
Gga TGGGGT--TTCACTCTAGTGTTTTATGGCTTTTTATTCCCTATGTGATAGTAATAAAGTCT [8288]
Xtr -----TTCACTGTGGTGTTTTATGGCTTTTTATTCCCTATGTGATAGTAATAAAGTCT [9064]
Lch TGGGAG--TTCACTCCAGTGTTTTATGGCTTTTTATTCCCTATGTGATAGTAATAAAGTCT [9659]
Dre GGGGAC--ACAGCTGTGCTGCTTTATGGCTTTTTATTCCCTATGTGAAGGTGAACAAGGCT [8969]

Hsa CATGTAGGGATGGAAGCCATGAAATACATTGTGAAAA--CACTCTGCTGTGGCCTATGGC [9333]
Mmu CATGTAGGGATGGAAGCCATGAAATACATTGTGAAAA--CGCTCTGCTGTGGCCTATGGC [9255]
Mdo CATGTAGGGATGGAAGCCATGAAATACATTGTGAAAT--CTCTCTGCTGTGGCCTATGGC [8691]
Meu CATGTAGGGATGGAAGCCATGAAATACATTGTGAAAT--AACTCTGCTGTGGCTTATGGC [7307]
Oan CATGTAGGGATGGAAGCCATGAAATACATTGTGAAAA--CTCTCTGCTGTGGCCTATGGC [8005]
Aca CATGTAGGGATGGAAGCCATGAAATACATTGTGAAAA--CCCTCTGCTGTGGTCTATGGC [9301]
Pbi CATGTAGGGATGGAAGCCATGAAATACATTGTGAAAA--TCCTCTGTTGTGGTCTATGGC [9690]
Cpi CATGTAGGGATGGAAGCCATGAAATACATTGTGAAAA--CCCTCTGCTGTGGTCTATGGC [10034]
Cmy CATGTAGGGATGGAAGCCATGAAATACATTGTGAAAA--CCCTCTGCTGTGGTCTATGGC [9702]
Psi CATGTAGGGATGGAAGCCATGAAATACATTGTGAAAA--CCCTCTGCTGTGGTCTATGGC [9102]
Asp CATGTAGGGATGGAAGCCATGAAATACATTGTGAAAA--CCCTCTGCTGTGGTCTATGGC [8664]
Ami CATGTAGGGATGGAAGCCATGAAATACATTGTGAAAA--CCCTCTGCTGTGGTCTATGGC [9347]
Asi CATGTAGGGATGGAAGCCATGAAATACATTGTGAAAA--CCCTCTGCTGTGGTCTATGGC [8886]
Tgu CATGTAGGGATGGAAGCCATGAAATACATTGTGAAAA--CCCTCTGCTGTGGTTTTATGGC [7312]
Cli CATGTAGGGATGGAAGCCATGAAATACATTGTGAAAA--CCCTCTGCTGTGGTTTTATGGC [9273]
Gga CATGTAGGGATGGAAGCCATGAAATACATTGTGAAAA--CCCTCTGCTGTGGTCTATGGC [8346]
Xtr CATGTAGGGATGGAAGCCATGAAATACATTGTGAAAA--CCCCCTGCTGAGGTATATGGC [9122]
Lch CATGTAGGGATGGAAGCCATGAAATACATTGTGAAAA--ATCCCTGTTGTGTTCTATGGC [9717]
Dre CATGTAGGGATACAAGCCACTAAACACGCAGTCAGAA--GTCACCTGCTGTGTTTTATGGC [9027]

Hsa TTTTTCATTCCCTATGTGATTGCTGTCCCAA--ACTCATGTAGGGCTAAAAGCCATGGG-CTA [9391]
Mmu TTTTTCATTCCCTATGTGATTGCTGTCCGA--ACTCATGTAGGGCTAAAAGCCATGGG-CTA [9313]
Mdo TTTTTCATTCCCTATGTGATTGCTGTTCCCA--ACTCATGTAGGGCTAAAAGCCATGGG-CTA [8749]
Meu TTTTTCATTCCCTATGTGATTACTGTTCCCA--ACTCATGTAGGGCTAAAAGCCATGGG-CTA [7365]
Oan TTTTTATTCCCTATGTGATTGCTGCTTTGA--ACTCATGTAGGGCTGAAAGCCATGGG-CTA [8063]
Aca TTTTTATTCCCTATGTGATTGCTTTTTATA--ACTCATGTAGGGCTAAAAGCCATGGG-CTA [9359]
Pbi TTTTTATTCCCTATGTGATTGCTTTTTATA--ATTTCATGTAGGGCTAAAAGCCATGGG-TTA [9748]
Cpi TTTTTATTCCCTATGTGATTGCGTTTTCCCTA--ACTCATGTAGGGCTAAAAGCCATGGG-CTA [10092]
Cmy TTTTTATTCCCTATGTGATTGCGTTTTCCCTA--ACTCATGTAGGGCTAAAAGCCATGGG-CTA [9760]
Psi TTTTTATTCCCTATGTGATTGCTTTTTCCCTA--CCTCATGTAGGGCTAAAAGCCATGGG-CTA [9160]
Asp TTTTTATTCCCTATGTGATTGCTTTTTCCCTA--CCTCATGTAGGGCTAAAAGCCATGGG-CTA [8722]
Ami TTTTTATTCCCTATGTGATTGCTTTTTCCCTA--ACTCATGTAGGGCTAAAAGCCATGGG-CTA [9405]
Asi TTTTTATTCCCTATGTGATTGCTTTTTCCCTA--ACTCATGTAGGGCTAAAAGCCATGGG-CTA [8944]
Tgu TTTTTATTCCCTATGTGATTGCTTTCCCGA--ACTCATGTAGGGCGAAAAGCCATGGG-CTA [7370]
Cli TTTTTATTCCCTATGTGATTGCTTTTTCCCTA--ACTCATGTAGGGCGAAAAGCCATGGG-CTA [9331]
Gga TTTTTATTCCCTATGTGATTGCTTTTTCCCTA--ACTCATGTAGGGCGAAAAGCCATGGG-CTA [8404]
Xtr TTTTTATTCCCTATGTGATTGC-TTTCCCTA-ATTCACATAGGGCAGAAAAGCCATGTG-CTG [9179]
Lch TTTTTATTCCCTATGTGATTACTGTTTCCCTA--ACTCATGTAGGGTTGAAAAGCCATGGG-CTA [9775]

Dre TTTCTATTCCCTATGTGATTTTCTTCTGCCGTGTCACATAGGGTTCAAAGCCATTGG-GTA [9086]

Hsa CAGTGAGGGG--GGTCTCTGACTCTCTTCGGTGACGGGTATTCTTGGGTGGATAAATACG [9449]
Mmu CAGTGAGGGG--GGCCCTCTGACTCTCTTCGGTGACGGGTATTCTTGGGTGGATAAATACG [9371]
Mdo CAGGGAGGGG--ATCTTTCTGACTCTCTTCGGTGACGGGTATTCTTGGGTGGATAAATACG [8807]
Meu CAGGGAGGGG--ATCTTTCTGACTCTCTTCGGTGACGGGTATTCTTGGGTGGATAAATACG [7423]
Oan CAGAGAGGGG--GTCTTTCTGACTCTCTTCGGTGACGGGTATTCTTGGGTGGATAAATACG [8121]
Aca CACAGAGGAA--AGCTTCTGACTCTCTTCGGTGACGGGTATTCTTGGGTGGATAAATACG [9417]
Pbi CACAAAGGAA--AGCTTTCCGACTCTCTTCGGTGACGGGTATTCTTGGGTGGATAAATACG [9806]
Cpi CACAGAGGAC--AGCTTTCTGACTCTCTTCGGTGACGGGTATTCTTGGGTGGATAAATACG [10150]
Cmy CATAGAGGAC--AGATTTCTGACTCTCTTCGGTGACGGGTATTCTTGGGTGGATAAATACG [9818]
Psi CACAGAGGAC--AGATTTCTGACTCTCTTCGGTGACGGGTATTCTTGGGTGGATAAATACG [9218]
Asp CACAGAGGAC--AGATTTCTGACTCTCTTCGGTGACGGGTATTCTTGGGTGGATAAATACG [8780]
Ami CACAGAGGAT--AGCTTTCTGACTCTCTTCGGTGACGGGTATTCTTGGGTGGATAAATACG [9463]
Asi CACAGAGGAT--AGCTTTCTGACTCTCTTCGGTGACGGGTATTCTTGGGTGGATAAATACG [9002]
Tgu CACAGAGGAG--AGCTTTCTGACTCTCTTCGGTGACGGGTATTCTTGGGTGGATAAATACG [7428]
Cli CACAGAGGAG--AGCTTTCTGACTCTCTTCGGTGACGGGTATTCTTGGGTGGATAAATACG [9389]
Gga CTCAGGGGAG--AGCTTTCTGACTCTCTTCGGTGACGGGTATTCTTGGGTGGATAAATACG [8462]
Xtr CACAGGGGAC--TGCTCTGTGGCTCTCTTCGGTGACGGGTATTCTTGGGTGGATAAATACG [9237]
Lch CTCAGTGGGA--CTTTATAAGACTCTTTTCGGTGACGGGTATTCTTGGGTGGATAAATACG [9833]
Dre CAGAGTGAA--CTATAAAGGACTCTCTTCGGTGACGGGTATTCTTGGGTGGATAAATACG [9144]

Hsa GATTACGTTGTTATTGCTTAAGAATACGCGTAGTCGAGGAGAGTACCAGCGGC----- [9502]
Mmu GATTACGTTGTTATTGCTTAAGAATACGCGTAGTCGAGGAGAGTACCAGCGGC----- [9424]
Mdo GATTACGTTGTTATTGCTTAAGAATACGCGTAGTCGAGGAGAGTACCTGCAGC--ATTGC [8865]
Meu GATTACGTTGTTATTGCTTAAGAATACGCGTAGTCGAGGAGAGTACCTGCAGC--AATGG [7481]
Oan GATTACGTTGTTATTGCTTAAGAATACGCGTAGTCGAGGAGAGTATCTGCAGC--AGCCC [8179]
Aca GATTACGTTGTTATTGCTTAAGAATACGCGTAGTCGAGGAGAGTACTCGCGGC--ACTGA [9475]
Pbi GATTACGTTGTTATTGCTTAAGAATACGCGTAGTCGAGGAGAGTACTCGCGGC--ATGAC [9864]
Cpi GATTACGTTGTTATTGCTTAAGAATACGCGTAGTCGAGGAGAGTACCGGCGGC--GCCCA [10208]
Cmy GATTACGTTGTTATTGCTTAAGAATACGCGTAGTCGAGGAGAGTACCCGCGGC--GCCCG [9876]
Psi GATTACGTTGTTATTGCTTAAGAATACGCGTAGTCGAGGAGAGTACCCGCGGC--GCTCA [9276]
Asp GATTACGTTGTTATTGCTTAAGAATACGCGTAGTCGAGGAGAGTACCCGCGGC--GCTCA [8838]
Ami GATTACGTTGTTATTGCTTAAGAATACGCGTAGTCGAGGAGAGTACC-GCGGC--GGAGC [9520]
Asi GATTACGTTGTTATTGCTTAAGAATACGCGTAGTCGAGGAGAGTACC-GCGGC----- [9054]
Tgu GATTACGTTGTTATTGCTTAAGAATACGCGTAGTCGAGGAGAGTACCGGCGGC----- [7481]
Cli GATTACGTTGTTATTGCTTAAGAATACGCGTAGTCGAGGAGAGTACCGGCGGC--GGCCC [9447]
Gga GATTACGTTGTTATTGCTTAAGAATACGCGTAGTCGAGGAGAGTACCGGCGGC----- [8515]
Xtr GATTACGTTGTTATTGCTTAAGAATACGCGTAGTTCGAGGAGAGTATCTTCAGC----- [9290]
Lch GATTACGTTGTTATTGCTTAAGAATACGCGTAGTCGAGGAGAGTACCTTCTCC--TCAAT [9891]
Dre GCTCTCGTTGTTATTGCTTAAGAATACGCGTAGTCGAGGAGAGTCATGTCGGC----- [9197]

Hsa ----- [9502]
Mmu ----- [9424]
Mdo CTAGCCCCCGCGATGACGGGTATTCTTGGGTAGATAAATACCAATGGCGCTGTTATTGCT [8925]
Meu CTGGCCCCCGCGATGACGGGTATTCTTGGGTAGATAAATACCGATGGCGCTGTTATTGCT [7541]
Oan CCAGCCCCCTTCGATGACGGGTATTCTTGGGTACATAAATACCGATGGCGCTGTTATTGCT [8239]
Aca CTAGCTCCCTTCAATAACGGGTATTCTTGGGTATATAAATACAGATGGCGTTGTTATTGCT [9535]
Pbi TATGCTCCCTTCGATGACGGGTATTCTTGGGTATATAAATACAGATGGCGTTGTTATTGCT [9924]
Cpi CTAGCTCCCTTCGATGACGGGTATTCTTGGGTAGATAAATACGGATTGCGTTGTTATTGCT [10268]
Cmy CTAGCTCCCTTCGGCGACGGGTATTCTTGGGTAGATAAATACGGATTGCGTTGTTATTGCT [9936]
Psi CGAGCTCTCTTCGGCGACGGGTATTCTTGGGTAGATAAATACGGATTGCGTTGTTATTGCT [9336]
Asp CGAGCTCTCTTCGGCGACGGGTATTCTTGGGTAGATAAATACGGATTGCGTTGTTATTGCT [8898]
Ami CCAGCTCCCTTCGATGACGGGTATTCTTGGGTAGATAAATACGGCTGGCGTTGTTATTGCT [9580]
Asi ----- [9054]
Tgu ----- [7481]
Cli CCCGCTCCCTTCGGCAACGGGTATTCTCGGGCGGATAAATACGGAC-GCGCTGTTATTGCT [9506]

Gga	-----	[8515]
Xtr	-----	[9290]
Lch	GCTATTCCCTTCGGCAACGGGTATTCTTGGGTAGATAAATACGGATTGCGTTGTTATTGCT	[9951]
Dre	-----	[9197]
Hsa	-----TGGTGTGGTGGGGCAGCTGGTG	[9524]
Mmu	-----TGGTGTGTGGGACAGCTGGTG	[9446]
Mdo	TGAGAATACACGTAGTCGAGGG-GAGGCCTCTTCGA--CGGCCTGGTGTGGCAGCTGGTG	[8982]
Meu	TGAGAATACACGTAGTCGAGGG-GAGGCGCCTTCGA--TGGCAAGGTGTGGCAGCTGGTG	[7598]
Oan	TGAGAATACGCGTAGTCGAGGGAGAGGCACCGACGT--AGGTATGGTGAAGCAGCTGGTG	[8297]
Aca	TGAGAATACGCGTAGTTGAGGG-GATGCTGATTTCAT--TGGCTTGGTGTAGCAGCTGGTG	[9592]
Pbi	TGAGAATACGCGTAGTTGAGGG-GAAGTTGCTTCAG--TGGCTCAGTGTAGCAGCTGGTG	[9981]
Cpi	TGAGAATACGCGTAGCCGAGGG-GAGAGTCGCTCAT-----	[10303]
Cmy	TGAGAATACGCGTAGCCGAGGG-GAGAGTCTCTCAT--TGGTATGGTGCAGCAGCTGGTG	[9993]
Psi	TGAGAATACGCGTAGCCGAGGG-GAGCGCTGCTCAT--TGGTATGGTATAGCAGCTGGTG	[9393]
Asp	TGAGAATACGCGTAGCCGAGGG-GAGAGCTGCTCAT--TGGTATGGTATAGCAGCTGGTG	[8955]
Ami	TGAGAATACGCGTAGTCGAGGG-GAGAGACACTCGC--TGGTACAGTGTGCAGCTGGTG	[9637]
Asi	-----TGGTACAGTGTGCAGCTGGTG	[9076]
Tgu	-----AGGTGCTGTGCAACAGCTGGTG	[7503]
Cli	TGAGAATACGCGTAGCCGAGGG-GACGCCCCGCCCC--AGGTGCCGTGCAGCAGCTGGTG	[9563]
Gga	-----GGGTGCCGTGCAGCAGCTGGTG	[8537]
Xtr	-----CGGTGCGGAGCAGCAGCTGGTG	[9312]
Lch	TGAGAATACGCGTAGTCGAGGG-GAGTCGTGCTCAG--TGGTTTGGTGCAGCAGCTGGTG	[10008]
Dre	-----TGATGGAGCAGGACAGCTGGTG	[9219]
Hsa	TTGTGAATCAGGCCGTTGCCAATCAGAGA-ACGGCTACTTCACAACACCAGGGCCACACC	[9583]
Mmu	TTGTGAATCAGGCCGTTGCCAATCAGAGA-ACGGCTACTTCACAACACCAGGGCCACACT	[9505]
Mdo	TTGTGAATCAGGCCGTCGCCAGTCTGAGA-ACGGCTACTTCACAACACCAGGGTCACCCC	[9041]
Meu	TTGTGAATCAGGCCGCGCCAGTCTCAGA-ACGGCTCCTTCACAACACCAGGGTCACCCC	[7657]
Oan	TTGTGAATCAGGCCGTCGCCAATCTGAGA-ACGGCTACTTCACAACACCAGGGTTGCACC	[8356]
Aca	TTGTGAATCAGGCCGTTGCCAAAGAGAGA-ACGGCTACTTCACAACACCAGGGTTGCCCC	[9651]
Pbi	TTGTGAATCAGGCCGTCACCTATTAGAGA-ACGGCTACTTCACAACACCAGGGTTGCCCT	[10040]
Cpi	-----	[10303]
Cmy	TTGTGAATCAGGCCGTCACCAATCAGAGA-ACGGCTACTTCACAACACCAGGGTTGTACC	[10052]
Psi	TTGTGAATCAGGCCGTTGCCAATCAGAGA-ACGGCTACTTCACAACACCAGGGTTGTATC	[9452]
Asp	TTGTGAATCAGGCCGTTGCCAATCAGAGA-ACGGCTACTTCACAACACCAGGGTTGTATC	[9014]
Ami	TTGTGAATCAGGCCGTCACCGATCAGAGA-ACGGCTACTTCACAACACCAGGGTTGCACC	[9696]
Asi	TTGTGAATCAGGCCGTCACCGATCAGAGA-ACGGCTACTTCACAACACCAGGGTTGCACC	[9135]
Tgu	TTGTGAATCAGGCCGTCACCGATCGGAGA-ACGGCTACTTCACAACACCAGGGTCGCACC	[7562]
Cli	TTGTGAATCAGGCCGTCACCGATCGGAGA-ACGGCTACTTCACAACACCAGGGTCGCACC	[9622]
Gga	TTGTGAATCAGGCCGTCACCGATCGGAGA-ACGGCTACTTCACAACACCAGGGTGGCACT	[8596]
Xtr	TTGTGAATCAGGCCGTCACCGATCAGAAA-ACGGCTACTTCACAACACCAGGGTTGCTTC	[9371]
Lch	TTGTGAATCAGGCCGCCACCAATCAGAGA-ACGGCTACTTCACAACACCAGGGTTGCACC	[10067]
Dre	TTGTGAATCAGGCCGCCGTTGGTGAAAGGGTACGGCTTCTTCACAACACCAGGGTCTCACT	[9279]
Hsa	ACACT--GTATCGTTGCTGCAGCTGGTGTGTGTGAATCAGGCCGACGAGCAGCGCATCCTC	[9641]
Mmu	GCACT--GTATGGTTGCTGCAGCTGGTGTGTGTGAATCAGGCCGACGAGCAGCGCATCCTC	[9563]
Mdo	CTGCC--GTATTGTTGCTGCAGCTGGTGTGTGTGAATCAGGCCGACAAGCAGCTCATCCTA	[9099]
Meu	CCGCC--GTATTGTTGCTGCAGCTGGTGTGTGTGAATCAGGCCGACAAGCAGCTCATCCTA	[7715]
Oan	CTGCC--GTATCGGTGCTGCAGCTGGTGTGTGTGAATCAGGCCGACGAGCAGCGAGTCCTA	[8414]
Aca	CTGCC--GTATTGTTGCTGCAGCTGGTGTGTGTGAATCAGGCCGACAAAAGCAGCATCTTA	[9709]
Pbi	GTACC--GTATTGTTGCTGCAGCTGGTGTGTGTGAATCAGGCCGACATAAAGTGCATCTTA	[10098]
Cpi	-----GTATTGTTGCTGCAGCTGGTGTGTGTGAATCAGGCCGACAACAAGCTCATCCTA	[10356]
Cmy	CTACC--GTATTGTTGCTGCAGCTGGTGTGTGTGAATCAGGCCGACAACAAGCTCATCCTA	[10110]
Psi	CTGCC--GTATTGTTGCTGCAGCTGGTGTGTGTGAATCAGGCCGACAACAAGCTCATCCTA	[9510]
Asp	TTGCC--GTATTGTTGCTGCAGCTGGTGTGTGTGAATCAGGCCGACAACAAGCTCATCCTA	[9072]
Ami	CTACC--GTATTGTTGCTGCAGCTGGTGTGTGTGAATCAGGCCGACAACAAGCAGCATCCTA	[9754]

Asi CTACC--GTATTGTTGCTGCAGCTGGTGTGTGAATCAGGCCGACAACAAGCGCATCCTA [9193]
Tgu GCACC--GTATTGTTGCTGCAGCTGGTGTGTGAATCAGGCCGACGACAAGCGCTTCCTA [7620]
Cli GCACC--GTATTGGTGCAGCTGGTGTGTGAATCAGGCCGACGACAAGCGCATCCTA [9680]
Gga GCACC--GTATTGTTGCTGCAGCTGGTGTGTGAATCAGGCCGACGGCAAGCGCTTCCTA [8654]
Xtr TCACC----- [9376]
Lch TTGCT--GTATTGGTGCAGCTGGTGTGTGAATCAGGCCGGCAAAAAGTACCTGCTA [10125]
Dre TCATC--GTGTGTGTGCTGCAGCTGGTGTGTGAATCAGGCCGATGTACACGTCAGCGA [9337]

Hsa TTACCCGGCTATTTACAGACACCAGGGTTGCATCATAACC--GGCTCAGGTGTATTCTACA [9699]
Mmu TTACCCGGCTATTTACAGACACCAGGGTTGCACCCTACC--GGCGCAGGTGTATTCTACA [9621]
Mdo TTACCCGGCTATTTACTACACCAGGGTTGCATCATAACC--GGCCCGGGTGTATTCTACA [9157]
Meu TTACCCGGCTATTTACACCACACCAGGGTTGCATCATAACC--GGCCCGGGTGTATTCTACA [7773]
Oan ATACCCGGCTATTTACTACACCAGGGTTGCATCATAACC--GGCCCGGGTGTAGTCTACA [8472]
Aca CTATCCGGCTATTTACTACACCAGGGTTGCATCATAACC--GGCCTGGCTGTATTCTACA [9767]
Pbi CTATCCGGCTATTTACTACACCAGGGTGCATCGTACC--GGCCTGGCTGTATTCTACA [10156]
Cpi CTATCCGGCTATTTACTACACCAGGGTTGCATCATAACC--GGCCTGGCTGTATTCTACA [10414]
Cmy CTATCCGGCTATTTACTACACCAGGGTTGCATCATAACC--GGCCTGGCTGTATTCTACA [10168]
Psi CTATCCGGCTATTTACTACACCAGGGTTGCATCATAACC--GGCCTGGCTGTATTCTACA [9568]
Asp CTATCCGGCTATTTACTACACCAGGGTTGCATCATAACC----- [9111]
Ami CTATCCGGCTATTTACTACACCAGGGTTGCATCATAACC--GGCCTGGCTGTATTCTACA [9812]
Asi CTATCCGGCTATTTACTACACCAGGGTTGCATCATAACC--GGCCTGGCTGTATTCTACA [9251]
Tgu CAATCCGGCTATTTACTACACCAGGGTTGCATCATAACC--GGCCTGGCTGTATTCTACA [7678]
Cli CTATCCGGCTATTTACTACACCAGGGTTGCATCATAACC--GGCCTGGCTGTATTCTACA [9738]
Gga CTATCCGGCTATTTACTACACCAGGGTTGCATCATAACC--GGCCAGGCTGTATTCTACA [8712]
Xtr -----GGCCTGGGTGTATTCTACA [9395]
Lch CGATCCGGCTATTTACACAACACCAGGGTTGCATCATAACC--GGCTTGGCTGTATTCTACA [10183]
Dre TAACCCGGCTATTTACACAACACCAGGGTGGCACCACACC--GGTCTGGCTGTATTCTACA [9395]

Hsa GTGCACGTGTCTCCAGTGTGGCTC--GGAGGCTGGAGACGCGGCCCTGTTGGAGTAACAAC [9758]
Mmu GTGCACGTGTCTCCAGTGTGGCTC--GGAGGCTGGAGACGCGGCCCTGTTGGAGTAACAAC [9680]
Mdo GTGCATGTGTCTCCAGTGTGACTA--AGGGACTGGAGATACAGCCCTGTTGGAATAACAAC [9216]
Meu GTGCATGTGTCTCCAGTGTGACTA--AGGGACTGGAGATACAGCCCTGTTGGAATAACAAC [7832]
Oan GTGCATGTGTCTCCAGGGACACTA--GACAGCTGGAGACACAGCTCTGTTGGA--TA--CAAC [8529]
Aca GTGCATGTGTCTCCAGTGTTTTCC--AGCGACTGGAGATACGCGGCCCTGTTGGAATAACAGC [9826]
Pbi GTGCATGTGTCTCCAGCGTCTGTA--AGCAGCTGGAGATACGCGGCCCTGTTGGAATAACAGC [10215]
Cpi GTGCATGTGTCTCCAGTGTACTA--AGCAACTGGAGATGCAGCCCTGTTGGAATAACAGC [10473]
Cmy GTGCATGTGTCTCCAGTGTACTA--AGCAACTGGAGATGCAGCCCTGTTGGAATAACAGC [10227]
Psi GTGCATGTGTCTCCAGTGTACTA--AGCAACTGGAGAGACAGCCCTGTGGGAAT----- [9621]
Asp ----- [9111]
Ami GTGCATGTGTCTCCAGTGTTTCTA--AGCGACTGGAGATACAGCCCTGTCGGAATAACAGC [9871]
Asi GTGCATGTGTCTCCAGTGTTTCTA--AGCGACTGGAGATACAGCCCTGTCGGAATAACAGC [9310]
Tgu GTGCATGTGTCTCCAGTGTGAGTA--AGTGACTGGAGATGCGGCCCTGTTGGAATAACATC [7737]
Cli GTGCATGTGTCTCCAGTGTGAGTA--AGTGACTGGAGATGCAGCCCTGTTGGAATAACAAC [9797]
Gga GTGCATGTGTCTCCAGTGTCACTC--AGCAACTGGGGACACAGCCCTGTTGGAATCACAGC [8771]
Xtr GTGCATGTGTCTCCAGTCATATAG--AGGCACTGGGGATACAGCTCTGTTGGAATAACAAT [9454]
Lch GTGCATGTGTCTCCAGTGGTTCTA--GGCAGCTGGAGATACAGCCCTGTTGGAATAACAAC [10242]
Dre GTGCATGTGTCTCCAGTGTTTCTATGGCGACTGGGGAGGCAGCGCTGTTGGAATAACAAC [9455]

Hsa TGAAGCC--GTGTCT--CTCTCTGTGTCTCCAGTGGTTTTACCCTATGGTAGGTTACG [9814]
Mmu TGAAGCC--GTGTCT--CTCTCTGTGTCTCCAGTGGTTTTACCCTATGGTAGGTTACG [9736]
Mdo CGAAGCC--GTGTCT--CTCTCTGTGTCTCCAGTGGTTTTACCCTATGGTAGGTTACG [9272]
Meu CGAAGCC--GTGTCT--CTCTCTGTGTCTCCAGTGGTTTTACCCTATGGTAGGTTACG [7888]
Oan CGAAGCC--GTGTCT--CTCTCTGTGTCTCCAGTGGTTTTACCCTATGGTAGGTTACG [8585]
Aca CAGAGCC--CTTCCT--CTCTCTGTGTCTCCAGTGGTTTTACCCTATGGTAGGTTACG [9882]
Pbi CAGAGCT----- [10222]
Cpi CAGAGCC--CTGTCT--CTCTCTGTGTCTCCAGTGGTTTTACCCTATGGTAGGTTACG [10529]
Cmy CAGAGCC--GTGTCT--CTCTCTGTGTCTCCAGTGGTTTTACCCTATGGTAGGTTACG [10283]

Psi ----- [9621]
Asp ----- [9111]
Ami CAGCGCC--TGCTCT--CTCTCTGTGTCTCTGCCAGTGGTTTTTACCCTATGGTAGGTTACG [9927]
Asi CAGCGCC--TGCTCT--CTCTCTGTGTCTCTGCCAGTGGTTTTTACCCTATGGTAGGTTACG [9366]
Tgu CAGTGCC--CCACCT--CTCTCCGTGTCTCTGCCAGTGGTTTTTACCCTATGGTAGGTTACG [7793]
Cli CGGGACC--CCGCCT--CTCTCCGTGTCTCTGCCAGTGGTTTTTACCCTATGGTAGGTTACG [9853]
Gga CTGTGCC--CTGCGT--CTCTCCGTGTCTCTGCCAGTGGTTTTTACCCTATGGTAGGTTACG [8827]
Xtr CAGTGCC--CTCTCC--CTCTCTGTGTCTCTCCCAGTGGTTTTTACCCTATGGTAGGTTACG [9510]
Lch TAAGACC--GTGTGT--TTCCCTGTGTCTAGCCAGTGGTTTTTACCCTATGGTAGGTTACG [10298]
Dre CAGAACC--GTGTTTG--TCTCCTGTGTCCCGTCAGTGGTTTTTACCCTATGGTAGGTTACG [9512]

Hsa TCATGCTGTTTCTACCACAGGGTAGAACCACGGACAGGATAACCGGGCACC--CAGTGCAG [9872]
Mmu TCATGCTGTTTCTACCACAGGGTAGAACCACGGACAGGATACTGGAGCACC--CAGTGCAG [9794]
Mdo TCATGCTGTTTCTACCACAGGGTAGAACCACGGACAGGATACTGGGGCGCT--CAGTGCAG [9330]
Meu TCATGCTGTTTCTACCACAGGGTAGAACCACGGACAGGATACTGGGGCGCT--CAGTGCAG [7946]
Oan TCATGCTGTTTCTACCACAGGGTAGAACCACGGACAGGATAACCGGGACGCT--CAGTGCAG [8643]
Aca TCATGCTGTTTCTACCACAGGGTAGAACCACGGACGGGATGCCGGGGCTCT--CAGTGGAC [9940]
Pbi -----CAGTGGAC [10230]
Cpi TCATGCTGTTTCTACCACAGGGTAGAACCACGGACAGGATAACCGGG--CGCT--CAGTGCAG [10586]
Cmy TCATGCTGTTTCTACCACAGGGTAGAACCACGGACAGGATAACCGGG--CGCT--CAGTGCAG [10340]
Psi ----- [9621]
Asp ----- [9111]
Ami TCATGCTGTTTCTACCACAGGGTAGAACCACGGACGGGATAACCGGGCGCG--CAGTGCAG [9985]
Asi TCATGCTGTTTCTACCACAGGGTAGAACCACGGACGGGATAACCGGGCGCG--CAGTGCAG [9424]
Tgu TCATGCTGTTTCTACCACAGGGTAGAACCACGGACAGGATGCCGGGGCTGC--CAGTGCAG [7851]
Cli TCATGCTGTTTCTACCACAGGGTAGAACCACGGACGGGATGCTGGGGCTGC--CAGTGCAG [9911]
Gga TCATGCTGTTTCTACCACAGGGTAGAACCACGGACGGGATGCCGGGGCTGC--CAGTGCAG [8885]
Xtr TCAGGCTGTTTCTACCACAGGGTAGAACCACGGACAGGATAACCGGGAGCTC--CAGTGCAG [9568]
Lch TCATGCTGTTTCTACCACAGGGTAGAACCACGGACCGGATAACAGGGGTTTC--CAGTGGAG [10356]
Dre TCATGCTGTTTCTACCACAGGGTAGAACCACGGACGGGATGTCTGGAGGTG--CAGTGCAG [9570]

Hsa TCACCCATAAAGTAGAAAGCACTACTAA--CAGCACTG--GAGGGTGTAGTGTTCCTACTTT [9930]
Mmu TCACCCATAAAGTAGAAAGCACTACTAA--CAGCACTG--GAGGGTGTAGTGTTCCTACTTT [9852]
Mdo TCACCCATAAAGTAGAAAGCACTACTAA--CAGCAATG--TAGGGTGTAGTGTTCCTACTTT [9388]
Meu TCACCCATAAAGTAGAAAGCACTACTAA--CAGCAATG--TAGGGTGTAGTGTTCCTACTTT [8004]
Oan TCATCCATAAAGTAGAAAGCACTACTAA--CAGCGCTG--TAGGGTGTAGTGTTCCTACTTT [8701]
Aca TCATCCATAAAGTAGAAAGCACTACTAAACGCCTGTGCCCAAGTGTAGTGTTCCTACTTT [10000]
Pbi TCATCCATAAAGTAGAAAGCACTACTAAACGCCTGTGTCCAAGTGTAGTGTTCCTACTTT [10290]
Cpi TCACCCATAAAGTAGAAAGCACTACTAAACAGCACTG--CAGGGTGTAGTGTTCCTACTTT [10645]
Cmy TCACCCATAAAGTAGAAAGCACTACTAAACAGCACTG--CAGGGTGTAGTGTTCCTACTTT [10399]
Psi ----- [9621]
Asp ----- [9111]
Ami TCACCCATAAAGTAGAAAGCACTACTAAACAGCACTG--CAGGGTGTAGTGTTCCTACTTT [10044]
Asi TCACCCATAAAGTAGAAAGCACTACTAAACAGCACTG--CAGGGTGTAGTGTTCCTACTTT [9483]
Tgu TCACCCATAAAGTAGAAAGCACTACTAAACAGCACTG--CAGGGTGTAGTGTTCCTACTTT [7910]
Cli TCACCCATAAAGTAGAAAGCACTACTAAACAGCACTG--CAGGGTGTAGTGTTCCTACTTT [9970]
Gga TCACCCATAAAGTAGAAAGCACTACTAAACAGCACTG--CAGGGTGTAGTGTTCCTACTTT [8944]
Xtr CCACCCATAAAGTAGAAAGCACTACTAGACAGGACTG--AACGCTGTAGTGTTCCTACTTT [9627]
Lch TCATCCATAAAGTAGAAAGCACTACTAAACCTTTCAA--TTCAGTGTAGTGTTCCTACTTT [10415]
Dre TCATCCATAAAGTAGAAAGCACTACTAAACCCCTCGC--CACAGTGTAGTGTTCCTACTTT [9629]

Hsa TATGGATGAGTGTACTGT--CTGTCTCCCAGCCTGAGGTGCAGTGCTGCATCTCTGGTCA [9988]
Mmu TATGGATGAGTGTACTGT--CTGTCTCCCAGCCTGAGGTGCAGTGCTGCATCTCTGGTCA [9910]
Mdo TATGGATGAGTGTACTGT--CTGTCTCCCAGCCGAGGTGCAGTGCTGCATCTCTGGTCA [9446]
Meu TATGGATGAGTGTACTGT--TTGTCTCCCAGCCGAGGTGCAGTGCTGCATCTCTGGTCA [8062]
Oan TATGGATGAGTGTACTGT--ATGTCTCCCAGCCGAGGTGCAGTGCTGCATCTCTGGTCA [8759]
Aca TATGGATGAGTGTACTGT--ATGTCTCCCAGCCGAGGTGCAGTGCTGCATCTCTGGTCA [10058]

Pbi TATGGATGAGTGTACTGT--ATGTCTCCCAGCCCAAGGTGCAGTGCTGCATCTCTGGTCA [10348]
Cpi TATGGATGAGTGTACTGT--ATGTCTCCCAGCCCAAGGTGCAGTGCTGCATCTCTGGTCA [10703]
Cmy TATGGATGAGTGTACTGT--ATGTCTCCCAGCCCAAGGTGCAGTGCTGCATCTCTGGTCA [10457]
Psi -----ATGTCTCCCAGCCCAAGGTGCAGTGCTGCATCTCTGGTCA [9661]
Asp -----ATGTCTCCCAGCCCAAGGTGCAGTGCTGCATCTCTGGTCA [9151]
Ami TATGGATGAGTGTACTGT--ATGTCTCCCAGCCCAAGGTGCAGTGCTGCATCTCTGGTCA [10102]
Asi TATGGATGAGTGTACTGT--ATGTCTCCCAGCCCAAGGTGCAGTGCTGCATCTCTGGTCA [9541]
Tgu TATGGATGAGTGTACTGT----- [7928]
Cli TATGGATGAGTGTACTGT--ATGTCTCCCAGCCCAAGGTGCAGTGCTGCATCTCTGGTCA [10028]
Gga TATGGATGAGTGTACTGT--ATGTCTCCCAGCCCAAGGTGCAGTGCTGCATCTCTGGTCA [9002]
Xtr TATGGATGAGTGTACTGG--CTGTCTCCCAGCCCAAGGTGCAGTGCTGCATCTCTGGTCA [9685]
Lch TATGGATGAGTGTACTGT--ATGTCTCCCAGCCCGAGGTGCAGTGCTGCATCTCTGGTCA [10473]
Dre TATGGATGAGTGTACTGT--CAGTCGTCTGGCCCGGGTGCAGTGCTGCATCTCTGGTCA [9687]

Hsa GTTGGGAGTCTGAGATGAAGCACTGTAGCTCAGGAAGAGAGAAGT--GGGGCCCTGGCTG [10046]
Mmu GTTGGGAGTCTGAGATGAAGCACTGTAGCTCAGGAAGGGAGAAGA--AGGACCTTGGCTG [9968]
Mdo GTTGTGAGTCTGAGATGAAGCACTGTAGCTCGGGAAGGGAGGAAC--GGGGCCAGGCCG [9504]
Meu GTTGTGAGTCTGAGATGAAGCACTGTAGCTCGGGAAGGGAGGAAC--GGTGCCCTGGCCA [8120]
Oan GTTGTGAGTCTGAGATGAAGCACTGTAGCTCGGGAAGGGAGGAGC--GGGGCCCTGGCGG [8817]
Aca GTTGTGAGTCTGAGATGAAGCACTGTAGCTCGGGAAGGGAGGAAC--AAGTCTCTGGGCC [10116]
Pbi GTTGTGAGTCTGAGATGAAGCACTGTAGCTCAGGAAGGGAGGAAC--GGGGCTCCAGCTC [10406]
Cpi GTTGTGAGTCTGAGATGAAGCACTGTAGCTCGGGAAGGGAGGAAC--GGGGCTCTGGGCA [10761]
Cmy GTTGTGAGTCTGAGATGAAGCACTGTAGCTCGGGAAGGGAGGAAC--GGGGCTCTGGGCA [10515]
Psi GTTGTGAGTCTGAGATGAAGCACTGTAGCTCGGGAAGGGAGGAGC----- [9706]
Asp GTTGTGAGTCTGAGATGAAGCACTGTAGCTCGGGAAGGGAGGAGC--GGGGCTCTGGGCA [9209]
Ami GTTGTGAGTCTGAGATGAAGCACTGTAGCTCGGGAAGGGAGGAAC--GGGGCTCTGGGCA [10160]
Asi GTTGTGAGTCTGAGATGAAGCACTGTAGCTCGGGAAGGGAGGAAC--GGGGCTCTGGGCA [9599]
Tgu -----GCTGTCCCAGGCA [7941]
Cli ATTGGGAGTCTGAGATGAAGCACTGTAGCTCGGGAAGGGAGGAAC--GCTCCCCTGGGCA [10086]
Gga ATTGGGAGTCTGAGATGAAGCACTGTAGCTCGGGAAGGGAGGAAC--GCCGCCCTGGGCT [9060]
Xtr GTTGTGAGTCTGAGATGAAGCACTGTAGCTCGGGAAGGGGGAATA--GGGACTGTGTTTG [9743]
Lch GTTGTGAGTCTGAGATGAAGCACTGTAGCTCAGGAAGGGGAAAC--AACAGTCAGAGTA [10531]
Dre ACTGGGAGTCTGAGATGAAGCACTGTAGCTCGGGA--GGACAACAC--TGCTCTCTAGACA [9744]

Hsa GGATATCATCATATACTGTAAGTTTGGCAT--GAGACACTACAGTATAGATGATGTACTAG [10105]
Mmu GGATATCATCATATACTGTAAGTTTGTGAT--GAGACACTACAGTATAGATGATGTACTAG [10027]
Mdo GGATATCATCGTATACTGTAAGTTTGAAT--GAGACACTACAGTATAGATGATGTACTGG [9563]
Meu GGATATCATCGTATACTGTAAGTTTGAAT--GAGACACTACAGTATAGATGATGTACTGG [8179]
Oan GGATATCATCGTATACTGTAAGTTTGTCTAT--GAGACACTACAGTATAGATGATGTACTAG [8876]
Aca GGATATCATCATATACTGTAAGTTGG--AAT--GAGACACTACAGTATAGATGATGTACTAC [10174]
Pbi GGATATCATCATATACTGTAAGTTGG--AAT--CAGACACTACAGTATAGATGATGTACTAT [10464]
Cpi GGATATCATCGTATACTGTAAGTTTGTCTAT--GAGACACTACAGTATAGATGATGTACTAT [10820]
Cmy GGATATCATCGTATACTGTAAGTTTGTCTAT--GAGACACTACAGTATAGATGATGTACTAT [10574]
Psi ----- [9706]
Asp GGATATCATCATATACTGTAAGTTTGTCTAT--GAGACACTACAGTATAGATGATGTACTAT [9268]
Ami GGATATCATCGTATACTGTAAGTTCGGCTAT--GAGACACTACAGTATAGATGATGTACTAC [10219]
Asi GGATATCATCGTATACTGTAAGTTCGGATAT--GAGACACTACAGTATAGATGATGTACTAC [9658]
Tgu GGATATCATCGTATACTGTAAGTTGGCTAT--GAGACACTACAGTATAGATGATGTACTCC [8000]
Cli GGATATCATCGTATACTGTAAGTTCGGCTAT--GAGACACTACAGTATAGATGATGTACTC-- [10144]
Gga GGATATCATCATATACTGTAAGTTCACTAT--GAGACACTACAGTATAGATGATGTACTCC [9119]
Xtr GGATATCATCATATACTGTAAGTTTGTTTT--AAGACACTACAGTATAGATGATGTACTAC [9802]
Lch GGATATCATCATATACTGTAAGTTTGTCTATAGAGACACTACAGTATAGATGATGTACTAC [10591]
Dre GGATATCATCGTATACTGTAAGTTTATTATTGAGACACTACAGTATAGATGATGTACTAT [9804]

Hsa TCCGGGCACC--CTTGTCTCACGGTCCAGTTTTCAGGAATCCCTTAGATGCTAAGAT [10163]
Mmu TCTGGGTACC--CTTGTCTCACGGTCCAGTTTTCAGGAATCCCTTAGATGCTAAGAT [10085]
Mdo CGAGGGCCGC--CTTGTCTCACGGTCCAGTTTTCAGGAATCCCTTAGATGCTAAGAT [9621]

Meu TATGGGTCAC--CTTGTCTCAGGGTCCAGTTTTCCAGGAATCCCTTAGGTGCTAAGAT [8237]
Oan CCCGGGTGCC--CGTGTCTCAGGGTCCAGTTTTCCAGGAATACAT-AGGTGCTGAGAT [8931]
Aca CTTTACCTAA--TGTGTCTCAGGGTCCAGTTTTCCAGGAATCCCTTAGATGATAAGAG [10232]
Pbi CTGGAGCTCC--TATGTCTCAGGGTCCAGTTTTCCAGGAATCCCTTAGATGCTAAGAA [10522]
Cpi CCTGAGCTTC--CGTGTCTCAGGGTCCAGTTTTCCAGGAATCCCTTAGGCACTATGAC [10878]
Cmy CCTGAGCTTC--CGTGTCTCAGGGTCCAGTTTTCCAGGAATCCCTTAGGCACTATGAC [10632]
Psi -----CGTGTCTCAGGGTCCAGTTTTCCAGGAATCCCTTAGGCACTCTGAG [9754]
Asp CCTGAGCCTC----- [9278]
Ami CCCGGCCTTT--TGTGTCTCAGGGTCCAGTTTTCCAGGAATCCCTTGGGCACTGTGTT [10277]
Asi CCCGGCCTCT--CGTGTCTCAGGGTCCAGTTTTCCAGGAATCCCTTGGGCACTGTGTT [9716]
Tgu CCGGGCTGCA----- [8010]
Cli -----CGTGCCTCAGGGTCCAGTTTTCCAGGAATCCCTTAGGCGCTACGTT [10192]
Gga CCTGGGCTGC--CGTGTCTCAGGGTCCAGTTTTCCAGGAATCCCTTAGGCGCTACGTT [9177]
Xtr ACCAAGTCTC--CTATTCTCAAGGTCCAGTTTTCCAGGAATCCCTTGGGTGCTGTGGT [9860]
Lch CCCAGACTGT--CTTGTCTCAGGGTCCAGTTTTCCAGGAATCCCTTGGGTGCTAAAAA [10649]
Dre CCAGGGGGTC--CTCATCCCCGGGGTCCAGTTTTCCAGGAATCCCTTGGGCAATCGAAA [9862]

Hsa GGG-GATTTCCTGGAAATACTGTTCTTGAGGTCATGG--ATCCTCAGCTTTGAGAACTGAA [10220]
Mmu GGG-GATTTCCTGGAAATACTGTTCTTGAGGTCATGG--ATCCCCAGCTCTGAGAACTGAA [10142]
Mdo GGG-GATTTCCTGGAAATACTGTTCTTGAGGTCATGG--ATCCTCAGCTTTGAGAACTGAA [9678]
Meu GGG-GATTTCCTGGAAATACTGTTCTTGAGGTCATGG--ATCCTCAGCTTTGAGAACTGAA [8294]
Oan GGG-GATTTCCTGGAAATACTGTTCTTGAGGTCATGG--ACGCTCAGCTTTGAGAACTGAA [8988]
Aca GGG-GATTTCCTGGAAATACTGTTCTTGGGGTCATGG----- [10267]
Pbi GGG-GATTTCCTGGAAATACTGTTCTTGGGGTCATGG----- [10557]
Cpi GGG-GATTTCCTGGAAATACTGTTCTTGAGGCCATGG--ATTCTCAGCTTTGAGAACTGAA [10935]
Cmy GGG-GATTTCCTGGAAATACTGTTCTTGAGGCCATGG--ATTCTCAGCTTTGAGAACTGAA [10689]
Psi GGG-GATTTCCTGGAAATACTGTTCTTGAGGCCATGG--ATTCTCAGCTTTGAGAACTGAA [9811]
Asp -----ATTCTCAGCTTTGAGAACTGAA [9300]
Ami GGG-GATTTCCTGGAAATACTGTTCTTGGGGCCGTGG--ATTCTTGGCTTTGAGAACTGAA [10334]
Asi GGG-GATTTCCTGGAAATACTGTTCTTGGGGCCGTGG--ATTCTTGGCTTTGAGAACTGAA [9773]
Tgu -----ATTCTCAGCTTTGAGAACTGAA [8032]
Cli GGG-GATTTCCTGGAAATACTGTTCTTGAGGCCACGG--ATTCTCAGCTTTGAGAACTGAA [10249]
Gga GGG-GATTTCCTGGAAATACTGTTCTTGGGGCCACGG--ATCCTCAGCTTTGAGAACTGAA [9234]
Xtr GGG-GATTTCCTGGAAATACTGTTCTTGGGGTGTAGG--GTTCTTAGCTTTGAGAACTGAA [9917]
Lch GGG-GATTTCCTGGAAATACTGTTCTTGGGGGCAAGG--ACTCCAGCTTTGAGAACTGAG [10706]
Dre GGGGGATTTCCTGGAAATACTGTTCTTGGGGTGGGG--GCTCTTGGCTTTGAGAACTGAA [9920]

Hsa TTCCATGGGTTGTG-TCAGT-----GTCAGACCTCTGAAATTCAGTTCTTCAGCTGGGA [10273]
Mmu TTCCATGGGTTATA-TCAAT-----GTCAGACCTGTGAAATTCAGTTCTTCAGCTGGGA [10195]
Mdo TTCCATGGGTTGTC-TTTGT-----ATCAGACCTATGAAACTCAGTTCTTCAGCTGGAA [9731]
Meu TTCCATGGGTTGTC-TTTGT-----ATCAGACCTATGAAACTCAGTTCTTCAGCTGGGA [8347]
Oan TTCCACGGGTTGTG-ATTGCAACTCTGACAGACCCGTGGGGCTCAGTTCTTCAGCTGGGG [9047]
Aca ----- [10267]
Pbi ----- [10557]
Cpi TTCCATGTGTTGTAATTGAATC-TCTGTGACACCCATGGGGCTCAGTTCTTCAGCTTGGA [10994]
Cmy TTCCATGGGTTGTAATTGAATC-TCTGTGACACCCATGGGGCTCAGTTCTTCAGCTTGGA [10748]
Psi TTCCACAGGTTGTAATTGAG-C-TGTGTGACACCTATGGGGCTCAGTTCTGACAGCTTGGA [9869]
Asp TTCCATAGGTTGTAATTGAG-C-TCTGTGACACCTATGGGGCTCAGTTCTTCAGCTTGGA [9358]
Ami TTCCATGGGTTGTAATTGAATC-TTGAACAGACCCATGGGGCTCAGTTCTTCAGCTTGGA [10393]
Asi TTCCATGGGTTGTAATTGAATC-TTGAACAGACCCATGGGGCTCAGTTCTTCAGCTTGGA [9832]
Tgu TTCCATGGGTTGTAATTGAATCTGCTGTGACACCCATGGGGCTCAGTTCTTCAGCTTGGA [8092]
Cli TTCCATGGGTTGTAATTGAATTCGCTGTGACACCCATGGGGCTCAGTTCTTCAGCTTGGA [10309]
Gga TTCCATGGGTTGTAATTGAATCCTTTGTGACACCCATGGGGCTCAGTTCTTCAGCTTGGA [9294]
Xtr TTCCATAGGTTGTTAGAG-----GTTAGACCTATGGTGCTTAGTTCCATAGCTTGGA [9969]
Lch TTCCATGAACTGTAATCAGTA-----CCCAG-CTCATGGGGTTCAGTTCTGTAGCTTGGA [10760]
Dre TTCCAAGGGTGTCTGCTTTAT----ATTTCAG-CCCACGGAGTTCAGTTCTTAAGTTTGGA [9975]

Hsa	TATCT--CACCTGGCACTGAGAACTGAATTCCATAGGCTGTGAGCTC----TAGCAA-TG	[10326]
Mmu	TAGCT--CACCTGGCTCTGAGAACTGAATTCCATAGGCTGTGAGCTC----TAGCAGACG	[10249]
Mdo	TATCT--CATCTGGCTCTGAGAACTGAATTCCATAGGCTGTGAGCTC----ATGCAAATG	[9785]
Meu	TATCT-----	[8352]
Oan	TACCT--TGCTTGGCTCTGAGAACTGAATTCCATAGGCTGTGAGTTGA---TGAGGA-TG	[9101]
Aca	-----TGCTTAGCTCTGAGAACTGAATTCCATAGGCTTTAGAATAA---TTGAAA-CG	[10316]
Pbi	-----TGCTTAGCTCTGAGAACTGAATTCCATAGGCTTTAGAAGAA---ATGAAA-CG	[10606]
Cpi	TATCT--TGCTTGGCTTTGAGAACTGAATTCCATAGGCTTTAAAATA----ATGAAAACG	[11048]
Cmy	TATCT--TGCTTGGCTTTGAGAACTGAATTCCATAGGCTTTAAAATA----ATGAAAACG	[10802]
Psi	TATCT--TGCTTGGCTTTGAGAACTGAATTCCATAGGCTTTAAAATA----AGAAAAATG	[9923]
Asp	TATCT--TGCTTGGCTTTGAGAACTGAATTCCATAGGCTTTAAAATA----AGAAAAATG	[9412]
Ami	TATCT--TCCTTGGCTTTGAGAACTGAATTCCATAGGCTTTAAAAGA----CAAAAAAAG	[10447]
Asi	TATCT--TCCTTGGCTTTGAGAACTGAATTCCATAGGCTTTAAAAGA----CAAAAAAAG	[9886]
Tgu	TATTT--TGCTTGGCTCTGAGAACTGAATTCCATAGGCGTTGAAGCCT---CCAAAA-TG	[8146]
Cli	TATTT--TACTTGGCTCTGAGAACTGAATTCCATAGGCATTAAGCCT---CTAAAAATG	[10364]
Gga	TATTT--TGCTTGGCTTTGAGAACTGAATTCCATAGGCGTTAAAGCAT---CCAAAAATG	[9349]
Xtr	TCCCA-----	[9974]
Lch	TGTTG--TGCTTGGCTGTGAGAACTGAATTCCATAGATGGTTGGAGTAGAATGGAAAACG	[10818]
Dre	TGCAG--CACTTTTCCCTGAGAACTGAATTCCATAGATGGTGTTCAT----GAAAAGTTC	[10029]
Hsa	CCCTGTGGACTCAGTTCTG-GTG-CCCGGCAGTG-----	[10358]
Mmu	CCCTAGGGACTCAGTTCTG-GTG-CCCGGCTGTG-----	[10281]
Mdo	CCCTAGGAAGTCAGTTCTG-GAG-TCCGGTGACC-----	[9817]
Meu	-----	[8352]
Oan	CCCTAGGGATTTCAGTTCCA-CAG-CCCAGCAACC-----	[9133]
Aca	CCCCGTGGATTTCAGTTCTA-CAG-CTAGGCAGCA--GTTCCAAGCTTTGAGAACTGGTTT	[10372]
Pbi	CCCCGTGGATTTCAGTTCTA-CAG-CTAGACAGCT--GTCCCAGGCTCTGAGAACTGGTTT	[10662]
Cpi	CCCTGTGGCTTCAGTTCTG-TAG-CTGGGTAGCA--GTTCCCAGCTCTGAGAACTGAATT	[11104]
Cmy	CCCTGTGGATTTCAGTTCTG-TAG-CTGGGTAGCA--GTTCCCAGCTCTGAGAACTGAATT	[10858]
Psi	CCCTGTGGATTTCAGTTCTG-TAG-CTAGGCAGCA--GTTCCCAGCTCTGAGAACTGAATT	[9979]
Asp	CCCTGTGGATTTCAGTTCTG-TAG-CTAGGTAGCA--GTTCCCAGCTCTGAGAACTGAATT	[9468]
Ami	CCCTATGGATTTCAGTTCTG-TAG-CTGGGCGGCA--GTTCCCAGCTCTGAGAACTGAATT	[10503]
Asi	CCCTATGGATTTCAGTTCTG-TAG-CTGGGCGGCA--GTTCCCAGCTCTGAGAACTGAATT	[9942]
Tgu	CCCTATGGATTTCAGTTCTG-CAG-CTGGGCAGCA--GTTCCCAGCTCTGAGAACTGAATT	[8202]
Cli	CCCTATGGATTTCAGTTCTG-CAG-CTGGGCAGCA--GTTCCCAGCTCTGAGAACTGAATT	[10420]
Gga	CCCTATGGATTTCAGTTCTG-CAG-TTGGGCAGCA--GTTCCCAGCTCTGAGAACTGAATT	[9405]
Xtr	-----GGGCCCGGCTCTGAGAACTGAATT	[9998]
Lch	GTCTGTGGATTTCAGTTCTTTTCAG-TCTGGTGACC--GGTCCCAGGCTCTGAGAACTGAATT	[10875]
Dre	ATCTATGGGCTCAGTTCTTCTGG-CAATCTGTTT-----	[10062]
Hsa	-----	[10358]
Mmu	-----	[10281]
Mdo	-----	[9817]
Meu	-----	[8352]
Oan	-----	[9133]
Aca	TCGTGGACTGGTTTCCATTTAGTCTTCTCAGTCCATAATGCTCAGTTTTCAGCTTGGCT	[10432]
Pbi	TGATGGACTAGTTTCCCTTTTCAGTTTTTTTCAGTCCATAATATCCAGTTCTCTAGCTTGGCT	[10722]
Cpi	CCATGGACTGGTTTTCAGTTCTGTATCTTTCAGTCCATGGTAGTCAGTTCTCTAGCTTGGCT	[11164]
Cmy	CCATGGACTGGTTTTCAGTTCTGTATCTTTCAGTCCATGGTAGTCAGTTCTCTAGCTTGGCT	[10918]
Psi	CCATGGACTGGTTTTCAGTGCTGTATCTTTCAGTTCATGGTAGTCAGTTCTCTAGCTTGGCT	[10039]
Asp	CCATGGACTGGTTTTCAGTGCTGTATCTTTCAGTTCATGGTAGTCAGTTCTCTAGCTTGGCT	[9528]
Ami	CCATGGACTGGTTCCCTCTTCATATCTTTCAGTCCATAGTAGTCAGTTCTCTAGCTTGGCT	[10563]
Asi	CCATGGACTGGTTCCCTCTTCATATCTTTCAGTCCATAGTAGTCAGTTCTCTAGCTTGGCT	[10002]
Tgu	CCATGGACTGGTTCCAGTTCCATGTGTTTCAGTCCATGGTATTTCAGTTCTCTAGCTTGGCT	[8262]
Cli	CCATGGACTGGTTCCAGTTCCATGTGTTTCAGTCCATGGTATTTCAGTTCTCTAGCTTGGCT	[10480]
Gga	CCATGGACTGGTTTCAATTCCATGCGTTTCAGTCCATGGTATTTCAGTTCTCTAGCTTGGCT	[9465]
Xtr	CCATGGACTGTTCCACTCACAGCACCCCTCAGTCCACAGTGTTCAGTGCTCCAGTCTGGCT	[10058]

Lch	CCATGGGCTGGTCCAA-TCAGAACTCTTCAGTCCATAGTAGTCAGTTCTCCAGCTTGGCT	[10934]
Dre	-----	[10062]
Hsa	-----TATAAATCTAGTGGAAACATTTCTGCACAAACTAGATTCTG--GACACCAGTGTG	[10411]
Mmu	-----TATGAATCTAGTGGAAACATTTCTGCACAAACTAGATG-TT--GATGCCAGTGTG	[10333]
Mdo	-----TATGAATCTAGTGGAAACATCTCCGCACAAACTAGACTACT--GAAACCAGTGTG	[9870]
Meu	-----TATGAATCTAGTGGAAACATTTCTGCACAAACTATACTACT--GAAACCAGTGTG	[8405]
Oan	-----TGGGAATCCAGCGGAATCACCTCTGCACAAACTCGTCTTCT--GAA-CCAGTGTG	[9185]
Aca	GCA--TATGAATCTAGTGGAAATCACTTCCGCACAAACTAGATGAAT--GAAACCAGTGTG	[10488]
Pbi	GCA--TATGAATCTAGTGGAAATCACTTCTGCACAAACTAGAGGATT--GAAACCAGTGTG	[10778]
Cpi	GTA--TATGAATCTAGTGGAAATCACTTCTGCACAAACTCGACTACT--GAAATCAGTGTG	[11220]
Cmy	GTA--TATGAATCTAGTGGAAATCACTTCTGCACAAACTCGACTACT--GAAATCAGTGTG	[10974]
Psi	GTA--TATGAATCTAGTGGAAATCACTTCTGCACAAACTCGACTTTT--GAAATCAGTGTG	[10095]
Asp	GTA--TATGAGTCTAGTGGAAATCACTTCTGCACAAACTCGACTATT--GAAATCAGTGTG	[9584]
Ami	GTA--TATGAATCTAGTGGAAATCACTTCTGCACAAACTCGACTATT--GAAATCAGTGTG	[10619]
Asi	GTA--TATGAATCTAGTGGAAATCACTTCTGCACAAACTCGACTATT--GAAATCAGTGTG	[10058]
Tgu	GCA--TATGAATCTAGTGGAAATCACTTCTGCACAAACTTGACTACT--GAAATCAGTGTG	[8318]
Cli	GCA--TATGAATCTAGTGGAAATCACTTCTGCACAAACTTGACTACT--GAAATCAGTGTG	[10536]
Gga	GCA--TATGAATCTAGTGGAAATCACTTCTGCACAAACTTGACTACT--GAAATCAGTGTG	[9521]
Xtr	GCC-----	[10061]
Lch	GCA--TATGAATCTAGCGGAATCACTTCTGCACAAACTCGACTATTTGCAAAACAGTGTG	[10992]
Dre	-----	[10062]
Hsa	CGGAAATGCTTCTGCTACATTTTT--GTCTTTTGAGGCAAAGTTCTGAGACACTCCGACT	[10469]
Mmu	CGGAAATGCTTCTGCTACATTTGT--GTCTTTTGAGACAAAGTTCTGAGACACTCCGACT	[10391]
Mdo	CGGAAGTGCTTCTGCTACATTTTT--GCCGTGCGAGGCAAAGTTCTGGGACACTCAGACT	[9928]
Meu	CGGAAGTGCTTCTGCTACATTTTT--GCCGTGCGAGGCAAAGTTCTGTGACGCTCAGACT	[8463]
Oan	CGGAGATGCTTCCGCCGCACTTCTC--GTCTTTTGAGGCAAAGTTCTGTGACACTCAGACT	[9243]
Aca	CGGAAATGCTTCTGCTACATTTTT--GTCTCTGGAAGCAAAGTTCTGTGACACTCCGACT	[10546]
Pbi	CGGAAATGCTTCTGCTACATTTTT--GTTTCTGGAAGCAAAGTTCTGTGACACTCCGACT	[10836]
Cpi	CGGAAATGCTTCTGCTACATTTTT--GTCTCTTGAAGCAAAGTTCTGTGACACTCAGACT	[11278]
Cmy	CGGAATTGCTTCTGCTACATTTTT--GTCTCTTGAAGCAAAGTTCTGTGACACTCAGACT	[11032]
Psi	CGGAAATGCTTCTGCTACATTTTT--GTCTCTTGAAGCAAAGTTCTGTGACACTCAGACT	[10153]
Asp	CGGAAATGCTTCTGCTACATTTTT--GTCTCTTGAAGCAAAGTTCTGTGACACTCAGACT	[9642]
Ami	CGGAAATGCTTCTGCTACATTTTT-----	[10643]
Asi	CGGAAATGCTTCTGCTACATTTTT--GTCCCTTGAAGCAAAGTTCTGTGACACTCCGACT	[10116]
Tgu	CGGAAATGCTTCTGCTACATTTTT--GCCTCCGGAAGCAAAGTTCTGTGACACTCCGACT	[8376]
Cli	CGGAAATGCTTCTGCTACATTTTT--GCCTCCGGAAGCAAAGTTCTGTGACACTCCGACT	[10594]
Gga	CGGAAATGCTTCTGCTACATTTTT--GTCTCCTGAAGCAAAGTTCTGTGACACTCAGACT	[9579]
Xtr	-----GTCTTTTAAATCAAAGTTCTGTGACACTTAGACT	[10095]
Lch	CGGAAGTGCTTCTGCTACATTTTT--GTCTCTTAAAGCAAAGTTCTGTATCACTTAGACT	[11050]
Dre	-----GGCTTTCCAAGTAAAGTTCTGTGATACACTCCGA	[10096]
Hsa	CTGAGTATGATAGAAGTCAGTGCCTACAGAACTTTGTCTCTAGAGG--AGCATTTGAGG	[10527]
Mmu	CTGAGTATGATAGAAGTCAGTGCCTACAGAACTTTGTCTCTAGAGG--AGCATTTGAGG	[10449]
Mdo	CTGATTAGGATAGAAGTCAGTGCCTACAGAACTTTGTCTCCGGAGG-----	[9975]
Meu	CTG-TTAGCCAAGAAGTCAGTGCCTACAGAACTTTGTCTCCGGGGG--AGCATTTGAGG	[8520]
Oan	CTGATTATGATAGAAGTCAGTGCCTACAGAACTTTGTCTCCAGAGG-----	[9290]
Aca	CTGATTATGATAGAAGTCAGTGCCTACAGAACTTTGTCTCCGGGGG--AGCGCTTGAGG	[10604]
Pbi	CTGATTATAATAGAAGTCAGTGCCTACAGAACTTTGTCTCCAGGGG--AGCGCTTGAGG	[10894]
Cpi	CTGATTATGATAGAAGTCAGTGCCTACAGAACTTTGTCTTTGGGGG--AGCATTTGAGG	[11336]
Cmy	CTGATTATGATAGAAGTCAGTGCCTACAGAACTTTGTCTTTGGGGT--AGCGTTTGAGG	[11090]
Psi	CTGATTATGATAGAAGTCAGTGCCTACAGAACTTTGTCTCTGGGGG--AGCGTTTGAGG	[10211]
Asp	CTGATTACGATAGAAGTCAGTGCCTACAGAACTTTGTCTCTGGGGG-----	[9689]
Ami	-----GGCCTTTGAGG	[10654]
Asi	CTGAGTAC-ATAGCAGTCAGTGCCTACAGAACTTTGTCTCTGGGGG-----	[10162]
Tgu	CTGGGTACGATAGCAGTCAGTGCCTACAGAACTTTGTCTCCGGCGG-----	[8423]

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Cli CTGGGTACGATAGCAGTCAGTGCACACTACAGAACTTTGTCTCCGGCGG--AGCGCCCGGGG [10652]
Gga CTGGTTACGATAGCAGTCAGTGCACACTACAGAACTTTGTCTCCGGGGG----- [9626]
Xtr CTGAATATGATAGCAGTCAGTGCACACTACAGAACTTTGTTTTGGGAGT--AGCGTTTGAGG [10153]
Lch CTGAGTACTATAGAAGTCAGTGCACACTACAGAACTTTGTTTTGGGAGT--AGCACTTGAGG [11108]
Dre CTCTGAATGTTTGCAGTCAGTGCATTACAGAACTTTGTTTTGGGAGT----- [10143]

Hsa TGAAGTTCTGTTATACACTCAGGCTGTGGCTCTCTGAAAGTCAGTGCATCACAGAACTTTT [10587]
Mmu TGAAGTTCTGTTATACACTCAGGCTGTGGCTCT--GAAAGTCAGTGCATCACAGAACTTTT [10507]
Mdo ----- [9975]
Meu TGAAGTTCTGTTATACACTCAGACTGTGGCTCTCTGAAAGTCAGTGCATCACAGAACTTTT [8580]
Oan ----- [9290]
Aca TGAAGTTCTGTTATACACTCTGACTGTGGCTATGTGGAAGTCAGTGCATCACAGAACTTTT [10664]
Pbi TGAAGTTCTGTTATACACTTTGACTGTGGCTACATGGAAGTCAGTGCATCACAGAACTTTT [10954]
Cpi TGAAGTTCTGTTATACACTCTGACTGTGGCTACGTGGAGGTCAGTGCATCACAGAACTTTT [11396]
Cmy TGAAGTTCTGTTATACACTCCGACTGTGGCTATGTGGAGGTCAGTGCATCACAGAACTTTT [11150]
Psi TGAAGTTCTGTTATACACTCCGGCCGTGGCTACGAGG--GGTCAGTGCATCACAGAACTTTT [10270]
Asp ----- [9689]
Ami CGGAGTTCTGTATACACTCCGACTGTG--CTACCTGG--GGTCAGTGCATCACAGAACTTTT [10712]
Asi ----- [10162]
Tgu ----- [8423]
Cli CGAGGTTCTGTCTACACTCCGGCTGTAGCTACA--GACAGTCAGTGCATCACAGAACTTTG [10711]
Gga ----- [9626]
Xtr TGAAGTTCTGTTATACACTCCGGCTGTGAGTAAGTGGAAAGTCAGTGCATCACAGAACTTTT [10213]
Lch TGAAGTTCTGTTATACACTCCGGCTGTGAGTAACGAGAAGTCAGTGCATCACAGAACTTTT [11168]
Dre ----- [10143]

Hsa GTCTCGAAAGCTT--CCCCCGGCCAGGTTCTGTGATACACTCCGACTCGGGCTCTGGAG [10645]
Mmu GTCTCGAAAGCTT--CCCCGGCCTAGGTTCTGTGATACACTCCGACTCGGGCTCTGGAG [10565]
Mdo -----TCCCCGGGCCAGGTTCTGTGATACACTCCGACTTAGACTCTGGAG [10020]
Meu GTCTCGAAAGCTT--TCCCCAGCCCAGGTTCTGTGATACACTCCGACTTAGACTCTGGAG [8638]
Oan ----- [9290]
Aca GTCTCGAGAGCTT----- [10677]
Pbi GTCTCGAGAGCTT----- [10967]
Cpi GTCTCGAGAGCTT--CTCTCGGCCAGGTTCTGTGGTACACTTGGACTTGGACTCTGGAG [11454]
Cmy GTCTCGAGAGCTT--CTCTCGGCCAGGTTCTGTGGTACACTTGGACTTGGACTCTGGAG [11208]
Psi GTCTCGAGAGCTT--CTCTCGGCTCAGGTTCTGTGGTACACTTGGACTCGGACTCTGGAG [10328]
Asp -----CTCTCGGCCAGGTTCTGTGGTACACTTGGACTCGGACTCTGGAG [9734]
Ami GTCTCGAGAGCTT--CTCTCAGCTCAGGTTCTGTGGTACACTTGGACTCGGACTCTGGAG [10770]
Asi -----CTCTCAGCCCAGGTTCTGTGGTACACTTGGACTCGGACTCTGGAG [10207]
Tgu ----- [8423]
Cli GTCCCGGGAGCTC----- [10724]
Gga ----- [9626]
Xtr GTCTCGAGGGCTT----- [10226]
Lch GTCTCGAGAGCTT----- [11181]
Dre -----CACCTGGCTCAAGTTCTGTGATACACTCAGACTTTGAATCAGTGG [10188]

Hsa CAGTCAGTGCATGACAGAACTTGGGCCCGGAAGGAC--TCCCCATGGCCCTGTCTCCCAA [10703]
Mmu CAGTCAGTGCATGACAGAACTTGGGCCCGGTAGGAC--TTCTCAATGCCCTGTCTCCCAA [10623]
Mdo CAGTCAGTGCATGACAGAACTTGGGCTTGGGTGGAC--CCTCCGGGGCCCTTCTCCCAA [10078]
Meu CAGTCAGTGCATGACAGAACTTGGGTTTGGGTGGAC--GGCCTGGAGCCCCCTCTCCCAA [8696]
Oan -----CCCTCGGCGCCCCCTCTCCCAA [9312]
Aca -----ACTCTCTTTCCCTCTCTCCCAA [10699]
Pbi -----ACTCTTCTCCTTTCTCTCCCAA [10989]
Cpi CAGTCAGTGCATGACAGAACTTGGGTTTGGATGGAC----- [11490]
Cmy CAGTCAGTGCATGACAGAACTTGGGTTTGGATGGAC--TCTGCTCCCCACTCTCTCCCAA [11266]
Psi CAGTCAGTGCATGACAGAACTTGGGCTTGGACGGAC----- [10364]
Asp CAGTCAGTGCATGACAGAACTTGGGCTTGGACGGAC----- [9770]
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Ami	CAGTCAGTGCATGACAGAACTTGGGTTTGGATGGAC--TCTGCCCCCACTCTCTCCCAA	[10828]
Asi	CAGTCAGTGCATGACAGAACTTGGGTTTGGATGGAC--TCTGCCCCCACTCTCTCCCAA	[10265]
Tgu	-----	[8423]
Cli	-----	[10724]
Gga	-----	[9626]
Xtr	-----GTCTACTCTTTCTCTCTCCCAA	[10248]
Lch	-----GACGGAGTTCTCTGTCTCCCAA	[11203]
Dre	TAGTCAGTGCATGACAGAACTTTGGCCCGGACGGAC--AGTCCATCTCCGTCTCTCCCAA	[10246]
Hsa	CCCTTGTACCAGTGCTG---GGC-TCAGACCCTGGTACAG-GCC-TGGGGG-ACAGGGAC	[10756]
Mmu	CCCTTGTACCAGTGCTG---TGCCTCAGACCCTGGTACAG-GCC-TGGGGG-ATAGGGAC	[10677]
Mdo	CCCTTGTACCAGAGTCC----ATCAGAGACCC-GGTACGGGCTG-TGGGGG-ACGGGGAG	[10131]
Meu	CCCTCGTACCAGAGTCC----ATCAGAGACCC-GGTACGGGCTG-TGGGGG-ATGGGGAG	[8749]
Oan	CCCTTGTACCAGAGCAT---AAACTGAACCCCTGGTACGGGGCCGTGGGAG-AGGGGGAG	[9368]
Aca	CCCTTGTACCAGTGCCA-ACTGTAGTCTCTACTGGTACAGAGGA-TGGAAG-GGTGGG-C	[10755]
Pbi	CCCTTGTACCAGTGTC-A-GCTGTTGCACCTACTGGTACAGAGGA-TGGAAG-GGAGAGTG	[11046]
Cpi	-----	[11490]
Cmy	CCCTTGTACCAGTGTCATGCTGCAGCGAACCCCTGGTGCAGAGGA-TGGATG-AGAAGGGG	[11324]
Psi	-----	[10364]
Asp	-----	[9770]
Ami	CCCTTGTACCAGTGTCATGTTACTG-GAACCCCTGGTACAGAGGA-TGGATG-AGAAGGAG	[10885]
Asi	CCCTTGTACCAGTGTCATGTTACTG-GAACCCCTGGTACAGAGGA-TGGATG-AGAAGGAG	[10322]
Tgu	-----	[8423]
Cli	-----	[10724]
Gga	-----	[9626]
Xtr	CCCTTGTACCAGAGTGA---TAATGGGAACCTCTGGTACAGAGGA-TGGCTG-AAAGGAAG	[10303]
Lch	CCCTTGTACCAGTGTCG--GATTAGAGAACACTGGTACGGAGGA-GGGGGG-AGAGAGAG	[11259]
Dre	TCCTTGTACCAGTGTC--GATTTACAGATGACGCTGGACGGGG-TTTGGG-GGGGGCTG	[10302]
Hsa	CTGGGGA--CTCACAGCTGCCAGTGTCAATTTTTGTGATCTGCAGCT-AGTATTCTCACTC	[10813]
Mmu	TTGGGAA-----	[10684]
Mdo	TCGGGGC--CTCACAGCTGCCAGTGTCAATTTTTGTGATCTGCAGCT-AGTATTCTGGCTT	[10188]
Meu	CCAGGTG--CTCACAGCTGCCTGTGTCAATTTTTGTGATCTGCAGCT-AGTATTCTGACTT	[8806]
Oan	CCGGGGC--CTCACAGCTGCCAGTGTCAATTTTTGTGATCTGCAGCTTAGTACTCTGGCTC	[9426]
Aca	CTGCAGA--TTCACAGCCGTCAGTGTCAATTTTTGTGATTTGCAGCT-AGTAATCCTGGCC	[10812]
Pbi	GTTTCAGA--CTCACAGCTGCCAGTGTCAATTTTTGTGATTTGCAGCT-AGTAATCCTGGCC	[11103]
Cpi	-----CGTGCAGCTGCCAGTGTCAATTTTTGTGATTTGCAGCT-AGTAATCTGGGTC	[11540]
Cmy	GGGTGGG-----	[11331]
Psi	-----	[10364]
Asp	-----	[9770]
Ami	GCGTGGG--CTCGCGGCTGCCGGGGCATTTTTTGTGATTTGCAGCT-CGTGGTCTGGGTC	[10942]
Asi	GCGTGGG-----	[10329]
Tgu	-----CTCGCAGCTGCCGGCGTCAATTTTTGTGATTTGCAGCT-AGTAATCTGGCTC	[8473]
Cli	-----CTCGCAGCTGCCGGCGTCAATTTTTGTGATTTGCAGCT-AGTAATCTGGCTC	[10774]
Gga	-----	[9626]
Xtr	CAGTGGA--ATCACGGCTGCCCTTGTCAATTTTTGTGATTTGCAGCT-TGTAATTTTGGTC	[10360]
Lch	CGCTCTC--TTCATGGCTGCCAGTGTCAATTTTTGTGATTTGCAGCT-AGTAATCTTCAGT	[11316]
Dre	AGGGAGG--AGCACACCTCCCAGTGTCAATTTTTGTGATTTGCAGCT-AGTAGTCTGGGTC	[10359]
Hsa	-CAGTTGCATAGTACAAAAAGTGATCATTTGGCAGGTGTGGC--AGCGGTGGCCAGTGTCA	[10870]
Mmu	-----AGCGGTGGCCGGTGTCA	[10701]
Mdo	-CAGTTGCATAGTACAAAAAGTGATCATTTGGCAGGTGTGGC--AGCGGTGGCCGGTGTCA	[10245]
Meu	-CAGTTGCATAGTACAAAAAGTGATCATTTGGCAGGTGTGGC-----	[8846]
Oan	-CAGTTGCATAGTACAAAAAGTGATCATTTGGCAGGTGTGGC--AGCGGTGGCCAGTGTCA	[9483]
Aca	-CAGTTGCATAGTACAAAAAGTGATCATTTGGCCGCTGTGCC--AGCGGTGGCCAGTGTCA	[10869]
Pbi	-CAGTTGCATAGTACAAAAAGTGATCATTTGGCCACTGTGCC--AGCAGTTGCCAGTGTCA	[11160]
Cpi	-CAGTTGCATAGTACAAAAAGTGAGCATTTGGCAGCCGTGCC--AGCGGTGGCCAGTGTCA	[11597]

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Cmy -----AGCGGTTGCCAGTGTCA [11348]
Psi -----AGCGGTTGCCAGTGTCA [10381]
Asp -----AGCGGTTGCCAGTGTCA [9787]
Ami -CAGTTGCATAGTCACAAAAGTGATCGTTCGGCGGCCGCGCC--AGCGGTTGCCAGTGTCA [10999]
Asi -----AGCGGTTGCCAGTGTCA [10346]
Tgu -CAGTTGCATAGTCACAAAAGTGATCGTTGGCAGCCGTGCC--AGCGGTTGCCAGTGTCA [8530]
Cli -CAGTTGCATAGTCACAAAAGTGATCGTTGGCAGCCGTGCC--AGCGGTTGCCAGTGTCA [10831]
Gga -----AGCGGTTGCCAGTGTCA [9643]
Xtr TCAGTTGCATAGTCACAAAAGTGATCATGGGCAGGTGGGGC--AGCGGTTGCCAGTGTCA [10418]
Lch CCAGTTGCATAGTCACAAAAGTGATCATTGGCAGCTGTGTC--AGCGGTTGCCAGTGTCA [11374]
Dre -CAGTTGCATAGTCACAAAATGATCATTGGTAGGTGTGAG--AGCGGTTGCCAGTGTCA [10416]

Hsa TTTTTGTGATGTTGCAGCTAGTAATATGAGCCCAGTTGCATAGTCACAAAAGTGATCATT [10930]
Mmu TTTTTGTGACGTTGCAGCTAGTAATATGAGCCCAGTTGCATAGTCACAAAAGTGATCATT [10761]
Mdo TTTTTGTGATGTTGCAGCTAGTAATATGAGCCCAGTTGCATAGTCACAAAAGTGATCATT [10305]
Meu ----- [8846]
Oan TTTTTGTGATGTTGCAGCTAGTAATATGAGCCCAGTTGCATAGTCACAAAAGTGATCATT [9543]
Aca TTTTTGTGATGTTGCAGCTAGTAATATAAGCCAAGTTGCATAGTCACAAAAGTGATCATT [10929]
Pbi TTTTTGTGATGTTGCAGCTAGTAATATAAGCCCAGTTGCATAGTCACAAAAGTGATCATT [11220]
Cpi TTTTTGTGATGTTGCAGCTAGTAATATGAGCCCAGTTGCATAGTCACAAAAGTGATCATT [11657]
Cmy TTTTTGTGATGTTGCAGCTAGTAATATGAGCCCAGTTGCATAGTCACAAAAGTGATCATT [11408]
Psi TTTTTGTGATGTTGCAGCTAGTAATATGAGCCCAGTTGCATAGTCACAAAAGTGATCATT [10441]
Asp TTTTTGTGATGTTGCAGCTAGTAATATGAGCCCAGTTGCATAGTCACAAAAGTGATCATT [9847]
Ami TTTTTGTGATGTTGCAGCTAGTAATATGAGCCCAGTTGCATAGTCACAAAAGTGATCATT [11059]
Asi TTTTTGTGATGTTGCAGCTAGTAATATGAGCCCAGTTGCATAGTCACAAAAGTGATCATT [10406]
Tgu TTTTTGTGATGTTGCAGCTAGTAATATGAGCCCAGTTGCATAGTCACAAAAGTGATCATT [8590]
Cli TTTTTGTGATGTTGCAGCTAGTAATATGAGCCCAGTTGCATAGTCACAAAAGTGATCATT [10891]
Gga TTTTTGTGATGTTGCAGCTAGTAATATGAGCCCAGTTGCATAGTCACAAAAGTGATCATT [9703]
Xtr TTTTTGTGATGTTGCAGCTAGTAATATGAGCCCAGTTGCATAGTCACAAAAGTGATCATT [10478]
Lch TTTTTGTGATGTTGCAGCTAGTAATATGAGCCCAGTTGCATAGTCACAAAAGTGATCATT [11434]
Dre TTTTTGTGATGTTGCAGCTAGTTATATGAGCCCAGTTGCATAGTCACAAAAGTGATCATT [10476]

Hsa GGAAACTGTGAC--TGTATGCTGTTAATGCTAATCGTGATAGGGGTTTTT-----GCC [10981]
Mmu GGAAACTGTGAC--TGTATGCTGTTAATGCTAATCGTGATAGGGGTTTTG-----GCC [10812]
Mdo GGAAACTGTGAC--TATATGTTGTTAATGCTAATCGTGATAGGGGTTTTTCTTTTTTGACT [10363]
Meu -----TATATGTTGTTAATGCTAATCGTGATAGGGGTTTGTCTTTTTTCACT [8892]
Oan GGAAACTGTGAC--CGCAGGTCGTTAATGCTAATCGTGATAGGGGTTTTTCT-----CTG [9595]
Aca GGAAACTGTGAC--CACACGTTGTTAATGCTAATCGTGATAGGGGTTTTT-----ATC [10980]
Pbi GGAAACTGTGAC--CATACTGTTAATGCTAATCGTGATAGGTGTTTT-----ATC [11270]
Cpi GGAAACTGTGAC--TGTATGTTGTTAATGCTAATCGTGATAGGGGTTTTT-----ACC [11708]
Cmy GGAAACTGTGAC--TGTATGTTGTTAATGCTAATCGTGATAGGGGTTTTT-----ACC [11459]
Psi GGAAACTGTGAC--TGTATGTTGTTAATGCTAATCGTGATAGGGGTTTTT-----ACC [10492]
Asp GGAAACTGTGAC--TGTATGTTGTTAATGCTAATCGTGATAGGGGTTTTT-----ACC [9898]
Ami GGAAACTGTGAC--TGTATGTTGTTAATGCTAATCGTGATAGGGGTTTTT-----ACC [11109]
Asi GGAAACTGTGAC--TGTATGTTGTTAATGCTAATCGTGATAGGGGTTTTT-----ACC [10456]
Tgu GGAAACTGTGAC--TGTATGTTGTTAATGCTAATCGTGATAGGGGTTTTT-----ACC [8641]
Cli GGAAACTGTGAC--TGTATGTTGTTAATGCTAATCGTGATAGGGGTTTTT-----ACC [10942]
Gga GGAAACTGTGAC--TGTATGTTGTTAATGCTAATCGTGATAGGGGTTTTT-----ACC [9754]
Xtr GGAAACTGTGAC--TGCACAGTATTAATGCTAATCGTGATAGGGGTTTTTT-----AAT [10530]
Lch GGAAACTGTGAC--TGTACGTTGCTAATGCTAATCGTGATAGGGGTTTTTT-----GAC [11485]
Dre GGAAACTGTATC--GGTGCAGGTTAATGCTAATCGTGATAGGGGTTTT-----AGT [10525]

Hsa TCCAAGTACTCCTACA-TATTAGCATTAACAGTGTATGATG----- [11022]
Mmu TCTGACTGACTCCTACC-TGTTAGCATTAACAGGACACAAGG----- [10853]
Mdo TCGAAGTACTCCTACA-TGTTAGCATTAACAGTATATGGCC----- [10404]
Meu TCTAAGTACTCCTACA-TGTTAGCATTAACACTATATGGCC----- [8933]
Oan TCTGACTGACCCCTGCC-CGTTAGCATTAGCAACGTGCGGCC----- [9636]
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Aca	TCTGACTGACTCCTACA-TGTTAGCATTAAAGAATGTGTAGTG--CAGAAGGTGTTTATGC	[11037]
Pbi	TCTGATCAACTCCTACA-TGTTAGCATTAAATAGGGTGTGGTG--CAGACAGTGTTAATGC	[11327]
Cpi	TATGACTGACTCCTACA-TGTTAGCATTAAACTGTATGATG--CAGAAAGTGTTAATGC	[11765]
Cmy	TATGACTGACTCCTACA-TGTTAGCATTAAACTGTATGATG--CAGAAAGTGTTAATGC	[11516]
Psi	TATGACTGACTCCTACA-TGTTAGCATTAAACTGTATGATG--CAGGAAGTGTTAATGC	[10549]
Asp	TATGACTGACTCCTACA-TGTTAGCATTAAACTGTATGATG--CAGGAAGTGTTAATGC	[9955]
Ami	TCTGACTGACTCCTACA-TGTTAGCATTAGCACTGTATGATG-----	[11150]
Asi	TCTGACTGACTCCTACA-TGTTAGCATTAGCACTGTATGATG-----	[10497]
Tgu	TATGACTGACTCCTACA-CGTTAGCATTAAACTGTATCTCT-----	[8682]
Cli	TCTGACTGACTCCTACA-TATTAGCATTAAACTGTATCATG-----	[10983]
Gga	TCTGAATGACTCCTACA-TGTTAGCATTAAACTGTACCATG-----	[9795]
Xtr	ACATATTGACTCCTACA-TGTTAGCATTATTATCATGTGGTT-----	[10571]
Lch	TTTAGCTAACTCCTACA-TATTAGCATTAAACTGTATATGA-----	[11526]
Dre	GCTGATGAACACCTATGCTGTTAGCATTAACTCTTGCGCTAGT-----	[10567]
Hsa	-----	[11022]
Mmu	-----	[10853]
Mdo	-----	[10404]
Meu	-----	[8933]
Oan	-----	[9636]
Aca	TCCTTACGTCGGGAGTTTGAGATCTGATGCAACTCCTCTCCTGGTAGCATTGACTCTTAC	[11097]
Pbi	TACTCATGTTGGGAGTTTGA-AATAAAGTCACTCCTCTTCCAGTAGCATTACTCTTAC	[11386]
Cpi	TACTCATGTTAGGGGTGTGA--AATGAAGTAGCCCCCTTGCCCTGGTAGCATTGGCCCTTAC	[11823]
Cmy	TACTCATGTTAGGGGTGTGA--AGTGAAGTAGCTCCTTGCCCTGGTAGCATTGGCCCTTAC	[11574]
Psi	TACTCATGTTAGGGGTGTGG--AATGAAGTGCCTCCTAGCGGGGTAGCATTGACCCTTAC	[10607]
Asp	TACTCATGTTAGGGGCGTGG--AATGAAGTGCCTCCTGGCAGGGTAGCATTGGCCCTTAC	[10013]
Ami	-----	[11150]
Asi	-----	[10497]
Tgu	-----	[8682]
Cli	-----	[10983]
Gga	-----	[9795]
Xtr	-----	[10571]
Lch	-----	[11526]
Dre	-----	[10567]
Hsa	-----GTTGCTTCAGTGAACATTCAACGCTGTCGGTGAGTTTGGAAATTAATAA-TCAAAA-	[11075]
Mmu	-----GTTGCTTCAGTGAACATTCAACGCTGTCGGTGAGTTTGGAAATTAATAA-TAAAAA-	[10906]
Mdo	-----GTTGCTTCAGTGAACATTCAACGCTGTCGGTGAGTTTGGAAATTAATAA-TGAAAA-	[10457]
Meu	-----GTTGCTTCAGTGAACATTCAACGCTGTCGGTGAGTTTGGAAATTAATAA-TGAAAA-	[8986]
Oan	-----GTTGCTTCAGTGAACATTCAACGCTGTCGGTGAGTTTGGAAATTAATAA-TAGAAA-	[9689]
Aca	TGA--GTTGCTTCAGTGAACATTCAACGCTGTCGGTGAGTTTGGGATTAATAA-TGAAAA-	[11153]
Pbi	TGA--GTTGCTTCAGTGAACATTCAACGCTGTCGGTGAGTTTGGGATTAATAA-TGAAAA-	[11442]
Cpi	TGA--GTTGCTTCAGTGAACATTCAACGCTGTCGGTGAGTTTGGAAATTAATAA-TGAAAA-	[11879]
Cmy	TGA--GTTGCTTCAGTGAACATTCAACGCTGTCGGTGAGTTTGGAAATTAATAA-TGAAAA-	[11630]
Psi	TGA--GTTGCTTCAGTGAACATTCAACGCTGTCGGTGAGTTTGGAAATTAATAA-TGAAAA-	[10663]
Asp	TGA--GTTGCTTCAGTGAACATTCAACGCTGTCGGTGAGTTTGGAAATTAATAA-TGAAAA-	[10069]
Ami	-----GTTGCTTCAGTGAACATTCAACGCTGTCGGTGAGTTTGGATTAATAA-TGAAAA-	[11203]
Asi	-----GTTGCTTCAGTGAACATTCAACGCTGTCGGTGAGTTTGGAAATTAATAA-TGAAAA-	[10550]
Tgu	-----GTTGCTTCAGTGAACATTCAACGCTGTCGGTGAGTTTGGAAATTAATAA-TGAAAA-	[8735]
Cli	-----GTTGCTTCAGTGAACATTCAACGCTGTCGGTGAGTTTGGAAATTAATAA-TGAAAA-	[11036]
Gga	-----GTTGCTTCAGTGAACATTCAACGCTGTCGGTGAGTTTGGAAATTAATAA-TGAAAA-	[9848]
Xtr	-----GCTACTTTAGTGAACATTCAACGCTGTCGGTGAGTTTGGTATCTATAA-GGCAAA-	[10624]
Lch	-----GTTGCTTCAGTGAACATTCAACGCTGTCGGTGAGTTTAGAAA-TACAT-TGAAAA-	[11578]
Dre	-----TTTGCTTCAGTGAACATTCAACGCTGTCGGTGAGTTTGGAGCTAAATG-GAAAAA	[10621]
Hsa	-CCATCGACCGTTGATTGTACCCATATGGCTAAC--GGTCACAATCAACATTCAATTGCTGT	[11132]
Mmu	-CCATCGACCGTTGATTGTACCCATATAGCTAAC--GGTCACAATCAACATTCAATTGCTGT	[10963]

Mdo -CCATCGACCGTTGATTGTACCCTACAGCTAAC--GGTCACAATCAACATTCATTGCTGT [10514]
Meu -CCATCGACCGTTGATTGTACCCTACAGCTAAC--GGTCACAATCAACATTCATTGCTGT [9043]
Oan -CCATCGACCGTTGATTGTACCCTGCGGC-AAC--GGTCCCAATGAACATTCATTGCTGT [9745]
Aca -CCATCGACCGTTGATTGTACCCTCCAGCTAAC--GGTCACAATCAACATTCATTGCTGT [11210]
Pbi -CCATCGACCGTTGATTGTACCCTCCAGCTAAC--GGTCACAATCAACATTCATTGCTGT [11499]
Cpi -CCATCGACCGTTGATTGTACCCTCCAGCTAAC--GGTCACAATCAACATTCATTGCTGT [11936]
Cmy -CCATCGACCGTTGATTGTACCCTCCAGCTAAC--GGTCACAATCAACATTCATTGCTGT [11687]
Psi -CCATCGACCGTTGATTGTACCCTCCAGCTAAC--GGTCACAATCAACATTCATTGCTGT [10720]
Asp -CCATCGACCGTTGATTGTACCCTCCAGCTAAC--GGTCACAATCAACATTCATTGCTGT [10126]
Ami -CCATCGACCGTTGATTGTACCCTCCAGCTAAC--GGTCACAATCAACATTCATTGCTGT [11260]
Asi -CCATCGACCGTTGATTGTACCCTCCAGCTAAC--GGTCACAATCAACATTCATTGCTGT [10607]
Tgu -CCATCGACCGTTGATTGTACCCTCCAGCTAAC--GGTCACAATGAACATTCATTGCTGT [8792]
Cli -CCATCGACCGTTGATTGTACCCTCCAGCTAAC--GGTCACAATCAACATTCATTGCTGT [11093]
Gga -CCATCGACCGTTGATTGTACCCTCCAGCTAAC--GGTCACAATCAACATTCATTGCTGT [9905]
Xtr -CCATCGATCGTTGACTGTACATTACGGCAATG--GGTCACAATCAACATTCATTGCTGT [10681]
Lch -CCACTGACCGTTGATTGTACCCTGTAGCTAAC--GGTCACAATCAACATTCATTGCTGT [11635]
Dre ACCATCGACCGTTGATTGTACCCTGCGGCCGAG--GGTCACAATCAACATTCATTGCTGT [10679]

Hsa CGGTGGGTTGAACGTGTGTGGACAAGCTCACTGAACAATGAATGCAACTGTGGCCCCG--A [11190]
Mmu CGGTGGGTTGAACGTGTGTAGAAAAGCTCACTGAACAATGAATGCAACTGTGGCCCCG--A [11021]
Mdo CGGTGGGTTTAACTGTATGGACAAGCTCACTGAACAATGAATGCAACTGTGGCCCCA--A [10572]
Meu CGGTGGGTTTAACTGTGTGGACAAGCTCACTGAACAATGAATGCAACTGTGGCCCCA--A [9101]
Oan CGGTGGGTTTAACTCTGAGGACAAGCTCACTGAACAATGAATGGAACGTGGCTC-A--A [9802]
Aca CGGTGGGTTTAACTATGTGGACAAGCTCACTGAACAATGAATGCAACTGTGGCCCCA--A [11268]
Pbi CGGTGGGTTTAACTTTGTGGACAAGCTCACTGAACAATGAATGCAACTGTGGCCCCA--A [11557]
Cpi CGGTGGGTTTAACTATGTGGACAAGCTCACTGAACAATGAATGCAACTGTGGCCCCA--A [11994]
Cmy CGGTGGGTTTAACTATGTGGACAAGCTCACTGAACAATGAATGCAACTGTGGCCCCA--A [11745]
Psi CGGTGGGTTTAACTCTGTGGACAAGCTCACTGAACAATGAATGCAACTGTGGCCCCA--A [10778]
Asp CGGTGGGTTTAACTATGTGGACAAGCTCACTGAACAATGAATGCAACTGTGGCCCCA--A [10184]
Ami CGGTGGGTTTAACTATGCGGACAAGCTCACTGAACAATGAATGCAACTGTGGCCCCA--A [11318]
Asi CGGTGGGTTTAACTATGCGGACAAGCTCACTGAACAATGAATGCAACTGTGGCCCCA--A [10665]
Tgu CGGTGGGTTTAACTATGTGGACAAGCTCACTGAACAATGAATGCAACTGTGGCCCCA--A [8850]
Cli CGGTGGGTTTAACTATGTGGACAAGCTCACTGAACAATGAATGCAACTGTGGCCCCA--A [11151]
Gga CGGTGGGTTTAACTATGTGGACAAGCTCACTGAACAATGAATGCAACTGTGGCCCCA--A [9963]
Xtr CGGTGGGTTGAGTTAAGAACACAAGCTCGCTGAACGATGAATGCAACTGTGTCCCCA--A [10739]
Lch CGGTGGGTTTAACTATGTGGAAAAGCTCACTGAACAATGAATGCAACTGTGGCCCCG--G [11693]
Dre CGGTGGGTTGGATTGTAAAAGAAAGCTCACTGAACAATGAATGCAACTGTGTCCCAG--G [10737]

Hsa GGACTCCAAGGAACATTC AACGCTGTCGGTGAGTTT-GGGA---TTTGAAA-----AA [11239]
Mmu GGACTCCATGGAACATTC AACGCTGTCGGTGAGTTT-GGGA---TTCAAAAAACAAA-AA [11076]
Mdo TAACTTCAGTGAACATTC AACGCTGTCGGTGAGTTT-TTAGA--TTTAAAAG-----AA [10623]
Meu TAACTTCAGTGAACATTC AACGCTGTCGGTGAGTTT-GGAGA--TTTAAAAG-----AA [9152]
Oan GAACCGCAGGGAACATTC AACGCTGTCGGTGAGTTT-GAGA---TAGAGAAG-----AA [9852]
Aca TAGCTTCAGTGAACATTC AACGCTGTCGGTGAGTTT-GGAA---TCGAGAGC-----AA [11318]
Pbi TAGCTTCAGCGAACATTC AACGCTGTCGGTGAGTTT-GACA---TGTCAGGAT-----AA [11608]
Cpi TAGCTTCAGTGAACATTC AACGCTGTCGGTGAGTTT-GAGA---ATTAGAAA-----AA [12044]
Cmy TAGCTTCAGTGAACATTC AACGCTGTCGGTGAGTTT-GAGA---ATTAGAAA-----AA [11795]
Psi TAGCTTCAGTGAACATTC AACGCTGTCGGTGAGTTT-GAGA---ATTAGAAAAAAA---AA [10831]
Asp TAGCTTCAGTGAACATTC AACGCTGTCGGTGAGTTT-GAGA---ATTAGAAAAAAA---AA [10237]
Ami TAGCTTCAGTGAACATTC AACGCTGTCGGTGAGTTT-GAGC---ATTAGAAAAAAA---AA [11370]
Asi TAGCTTCAGTGAACATTC AACGCTGTCGGTGAGTTT-GAGC---ATTAGAAAAAAA---AA [10718]
Tgu TAGCTTCAGTGAACATTC AACGCTGTCGGTGAGTTT-GAGA---ACTAGAAA-----AA [8900]
Cli TAGCTTCAGTGAACATTC AACGCTGTCGGTGAGTTT-GAGA---ACTACAA-----AA [11200]
Gga TAGCTTCAGTGAACATTC AACGCTGTCGGTGAGTTT-GAGA---ACTAAGAA-----AA [10013]
Xtr GGGCTTCAGAGAACATTC AACGCTGTCGGTGAGTTT-GAGAAAGTGTAATAATAT---AA [10795]
Lch TGGCTTCAGTGAACATTC AACGCTGTCGGTGAGTTT-GAGC---TTTATAAG-----AA [11743]
Dre TCCCTTG-GTGAACATTC AACGCTGTCGGTGAGTTTGTGCGC---TTCTGTAAC-----AA [10788]

Hsa ACCACTGACCGTTGACTGTACCTTGGGGTCCTT--ATGGCTGCACTCAACATTCATTGCT [11297]
Mmu ACCACCGACCGTTGACTGTACCTTGGGATTCTT--ATGGCTGCACTCAACATTCATTGCT [11134]
Mdo ACCATCGACCGTTGACTGTGCCTTGAGGTTTAT--ATGTCTGCAATCAACATTCATTGCT [10681]
Meu ACCATCGACCGTTGACTGTACCTTGGAGGTTTAT--ATGTCTGCAATAAACATTCATTGCT [9210]
Oan ACCATCGACCGTTGACTGTACCTTGGAGGTTTAT--ATGGCTGCAATCAACATTCATTGCT [9910]
Aca ACCATCGACCGTTGACTGTACCTTGGAGGTTTAT--ACGGCTGCAATCAACATTCATTGCT [11376]
Pbi ACCATCGACCGTTGACTGTACCTTGGAGGTTTAT--ATGGCTGCACTCAACATTCATTGCT [11666]
Cpi ACCATCGACCGTTGACTGTACCTTGGAGGTTATAT--ATGGCTGCAATCAACATTCATTGCT [12102]
Cmy ACCATCGACCGTTGACTGTACCTTGGAGGTTTAT--ATGGCTGCAATCAACATTCATTGCT [11853]
Psi ACCATCGACCGTTGATTGTACCTTGGAGGTTTAT--ATGGCTGCAATCAACATTCATTGCT [10889]
Asp ACCATCGACCGTTGATTGTACCTTGGAGGTTTAT--ATGGCTGCAATCAACATTCATTGCT [10295]
Ami ACCATCGACCGTTGACTGTACCTTGGAGGTTTAT--ATGGCTGCAATCAACATTCATTGCT [11428]
Asi ACCATCGACCGTTGACTGTACCTTGGAGGTTTAT--ATGGCTGCAATCAACATTCATTGCT [10776]
Tgu ACCATCGACCGTTGACTGTACCTTGGAGGTTTAT--ATGGCTGCAATCAACATTCATTGCT [8958]
Cli ACCATCGACCGTTGACTGTACCTTGGAGGTTTAT--ATGGCTGCAATCAACATTCATTGCT [11258]
Gga ACCATCGACCGTTGACTGTACCTTGGAGGTTTAT--ATGGCTGCAATCAACATTCATTGCT [10071]
Xtr ACCATCGGCCGTTGACTGTACCCTGAGGCTTTT--ATGGCTGCAATAAACATTCATTGCT [10853]
Lch ACCATCGACCGTTGACTGTACCTTGGAGGTTCTAT--ATGGCTGCAATCAACATTCATTGCT [11801]
Dre ACCATCGACCGTTGACTGTACCCTGAGGGTGGC--ATGACTGCAATAAACATTCATTGCT [10846]

Hsa GTCGGTGGGTTTGGAGTCTGAATCAACTCACTGATCAATGAATGCAAACCTGCGGACCA--A [11355]
Mmu GTCGGTGGGTTTGAATGTCAACCAACTCACTGATCAATGAATGCAAACCTGCGGGCCA--A [11192]
Mdo GTCGGTGGGTTTTTGGATTCAATCAACTCACTGATCAATGAATGCAAACCTGCGGATCA--A [10739]
Meu GTCGGTGGGTTTTTATCTCAATCAACTCACTGATCAATGAATGCAAACCTGCGGATCA--A [9268]
Oan GTCGGTGGGTTTTTGTCTGAATCAACTCACTGATCAATGAATGCAAACCTGCGGACCA--A [9968]
Aca GTCGGTGGGTTTTAGGTTTCTGAGTCTCTGACCAATGAATGCAAACCTGCGGACCA--A [11434]
Pbi GTCGGTGGGTTTTCGGGTTTCTGAGTCTCTGAGCCCTCTGGCCAATGAATGCAAACCTGCGGATCA--A [11724]
Cpi GTCGGTGGGTTTTAGTTTGTATCAACTCACTGATCAATGAATGCAAACCTGCGGACCA--A [12160]
Cmy GTCGGTGGGTTTTAGTTTGTATCAACTCACTGATCAATGAATGCAAACCTGCGGACCA--A [11911]
Psi GTCGGTGGGTTTTAGTTTGTATCAACTCACTGATCAATGAATGCAAACCTGCGGACCA--A [10947]
Asp GTCGGTGGGTTTTAGTTTGTATCAACTCACTGATCAATGAATGCAAACCTGCGGACCA--A [10353]
Ami GTCGGTGGGTTTTAGTTTGTACCAACTCACTGATCAATGAATGCAAACCTGCGGACCA--A [11486]
Asi GTCGGTGGGTTTTAGTTTGTACCAACTCACTGATCAATGAATGCAAACCTGCGGACCA--A [10834]
Tgu GTCGGTGGGTTTTCTATTTCTATCAACTCACTGACCAATGAATGCAAACCTGCGGACCA--- [9015]
Cli GTCGGTGGGTTTTCTTTTTCTGTCAACTCACTGATCAATGAATGCAAACCTGCGGACCA--- [11315]
Gga GTCGGTGGGTTTTCTATTGCTATCAACTCACTGATCAATGAATGCAAACCTGCGGACCA--- [10128]
Xtr GTCGGTGGGTTGTAGTTTGTAGAAAAGCTCATTGATCAATGAATGCAAACCTGCGGACCA--- [10910]
Lch GTCGGTGGG-TTTACTTTAGATCAACTCACTGATCAATGAATGCAAACCTGCGGACCA--A [11858]
Dre GTCGGTGGGTTTTCTAATAGACACAACCTCACTGATCAATGAATGCAAACCTGCGGTGCA--C [10904]

Hsa GGGTTTGGGGGAACATTC AAC-CTGTTCGGTGAGTTTGGGCAGCTCA-GGCAAACCATCGA [11413]
Mmu GGGTTTGGGGGAACATTC AAC-CTGTTCGGTGAGTTTGGGCAGCTCA-GACCAAACCATCGA [11250]
Mdo AGGTTTGGGGGAACATTC AACCGCTGTTCGGTGAGTTTGGGCAGCTGAAGGCAAACCATCGA [10799]
Meu AGGTTTGGGGGAACATTC AACCGCTGTTCGGTGAGTTTGGGCAGCTGAAGGCAAACCATCGA [9328]
Oan AGGTTTGGGGGAACATTC AACCGCTGTTCGGTGAGTTTGGGCAGTGAAGGTTAAACCACCGA [10028]
Aca AGGTTTGGGGGAACATTC AACCGCTGTTCGGTGAGTTTGTCAATGAA-GTCAAACCATCGA [11493]
Pbi AGTTTCTCAGGGGAACATTC AACCGCTGTTCGGTGAGTTTGTCAATGAA-GTCAAACCATCGA [11783]
Cpi AGGTTTTCAGTGAACATTC AACCGCTGTTCGGTGAGTTTCTCAATAAG-GTTAAACCATCGA [12219]
Cmy AGGTTTTCAGTGAACATTC AACCGCTGTTCGGTGAGTTTCTTAGTAAG-GCTAAACCATCGA [11970]
Psi AGGTTTTCAGTGAACATTC AACCGCTGTTCGGTGAGTTTCTCAGTAAG-GTTAAACCATCGA [11006]
Asp AGGTTTTCAGTGAACATTC AACCGCTGTTCGGTGAGTTTCTCAGTAAG-GTTAAACCATCGA [10412]
Ami AGGTTTTCAGCGAACATTC AACCGCTGTTCGGTGAGTTTGGCAGTCAG-GTTAAACCATCGA [11545]
Asi AGGTTTTCAGCGAACATTC AACCGCTGTTCGGTGAGTTTGGCAGTCAG-GTTAAACCATCGA [10893]
Tgu ----- [9015]
Cli ----- [11315]
Gga ----- [10128]

Xtr ----- [10910]
Lch AGGTTTCAGTGAACATTCAGCGCTGTCGGTGAGTTTGGGCAGTAAG-ATTAAACCATCGA [11917]
Dre GAGTCTCAGAGAACATTC AACCGCTGTCGGTGAGTTT--GCAAGTGA-GAAAAACCATCGA [10961]

Hsa CCGTTGAGTGGACCCGAGGCCTGG--GAGGTCACAATCAACATTCATTGTTGTCGGTGG [11471]
Mmu CCGTTGAGTGGACCCGAGGCCTGG--AAGGTCACAATTAACATTCATTGTTGTCGGTGG [11308]
Mdo CCGTTGAGTGGACCCGAGGCCTTA--AAGGTCACAATCAACATTCATTGCTGTCGGTGG [10857]
Meu CCGTTGAGTGGACCCGCAACCTTA--AAGGTCACAATCAACATTCATTGCTGTCGGTGG [9386]
Oan CCGTTGAGTGTACCCCTCAGCCTAG--AAAGTCACAATCAACATTCATTACTGTCGGTGG [10086]
Aca CTGTTGAGTGTACCCGCGCCTTTT--AAAGTCACAATCAACATTCATT-CTGTCGGTGG [11550]
Pbi CTGTTGAGTGTACCCGCGCCTTTT--AAAGTCACAATCAACATTCATT-CTGTCGGTGG [11840]
Cpi CCGTTGAGTGTACCCGCGGCCGGA--AAAGTCACAATCAACATTCATTGCTGTCGGTGG [12277]
Cmy CCGTTGAGTGTACCCGCGCCTGA--AAAGTCACAATCAACATTCATTGCTGTCGGTGG [12028]
Psi CCGTTGAGTGTGCCCTGCGGCCTGA--AAAGTCACAATCAACATTCATTGCTGTCGGTGG [11064]
Asp CCGTTGAGTGTGCCCTGCGGCCCGA--AAAGTCACAATCAACATTCATTGCTGTCGGTGG [10470]
Ami CCGTTGAGTGTACCCGCAACCTTG--AAAGTCACAATCAACATTCATTGCTGTCGGTGG [11603]
Asi CCGTTGAGTGTACCCGCAACCTTG--AAAGTCACAATCAACATTCATTGCTGTCGGTGG [10951]
Tgu ----- [9015]
Cli ----- [11315]
Gga ----- [10128]
Xtr ----- [10910]
Lch CCGCTGACTGTACCCGCAACTGCA--AAAGTCACAATTAACATTCATTGCTGTCGGTGG [11975]
Dre GTGTTGAGTGTACCCGCTCTCGA--AAGGTCATAATCAACATTCATTGCTGTCGGTGG [11019]

Hsa GTTGTGAGGACTGAGGCCAGACCCACCGGGGGATGAATGTCACTGT-GGCTGGG--CCAG [11528]
Mmu GTTGTGAGGAG-GCAGCCAGACCCACCGGGGGATGAATGTCACTGT-GGCTGGG--CAGA [11364]
Mdo GTTGTGAGATCTGAGGAAAAACTCACCGATGGATGAATGTCACTGT-GGCTGGG--CCAG [10914]
Meu GTTGTGAGATGTGAGGCAAAACTCACCGATGGATGAATGTCACTGT-GGCTGGG--CCAG [9443]
Oan GTTGTGATAAATGA-AAAAAACTCACCGCCAGATGAATGCCACTGT-GGCTAGG--CCCA [10142]
Aca GTTGTGATGCTGGAGGAGAACCTCACTGATCAGTGAATGCAACTGT-GGCTGGA--CCGC [11607]
Pbi GTTGTATGCTGGAGGAGAAGCTCACTGATCAGTGAATGCAACTGT-GGCTGGA--TTCC [11897]
Cpi GTTGTGTTGTTGAAGGAAAAACTCACTGATCAATGAATGCAACTGT-GATTGGA--CCAT [12334]
Cmy GTTGTGTTGTTGAAGGAAAAACTCACTGATCAATGAATGCAACTGT-GATTGGA--CCAT [12085]
Psi GTTGTGTTATTGAAGGAAAAACTCACTGATCAATGAATGCAACTGT-GATTGGA--CCAT [11121]
Asp GTTGTGTTGTTGAAGGAAAAACTCACTGATCAATGAATGCAACTGT-GATTGGA--CCAT [10527]
Ami GTTGTGATGCTGAAGGAAAAACTCACGGATCAATGAATGCAACTGT-GATTGGA--CCAT [11660]
Asi GTTGTGATGCTGAAGGAAAAACTCACGGATCAATGAATGCAACTGT-GATTGGA--CCAT [11008]
Tgu -----CCGC [9019]
Cli -----CCAT [11319]
Gga -----CCGC [10132]
Xtr -----CCAG [10914]
Lch GTTGTGATGTTTAAAAAGAAACTCACTGCACAATGAATGCCACTGT-GGCTGTC--TCGT [12032]
Dre GTTTAGTCTTGTA-----CAGCTCTCTGAACAATGAATGTAAGTGT-GGCCAG--TCGA [11072]

Hsa TCACGTCCCCTTATCACTTTTCCAGCCCAGCTTTGTGACTGTA-AGTGTGGACGGAGAA [11587]
Mmu TCCCCTTTTCTTATCACTTTTCCAGCC-AGCTTTGTGACTCTA-AGTGTGGACGGAGAA [11422]
Mdo TCACATCCCCTTATCACTTTTCCAGCCCAGCTTTCTAATGCTA-ATTGTTGGACGGAGAA [10973]
Meu TCACGTCCCCTTATCACTTTT-CCAGCCCAGCTTTCTAATTCTA-ATTGTTGGACGGAGAA [9501]
Oan TCACGTCTCTTTATCACTTTTCCAGCCCAGCTTTCTGGTTCTA-GCCGTTGGACGGAGAA [10201]
Aca TCACGTCCCCTTATCACTTTTCCAGCC-AGCTTTCTTGTCTATA-ACCGTTGGACGGAGAA [11665]
Pbi CCACGTCTCCTTATCACTCTTCCAGCC-AGCTTTCTTCTTGTGCA-AGTGTGGACGGAGAA [11955]
Cpi TCTCGTGTCTTATCACTTTTCCAGCCCAGCTTTTTTCATTGTA-ACTGTTGGACGGAGAA [12393]
Cmy TCTCATGTCTTATCACTTTTCCAGCCCAGCTTTTTTCATTGTA-TCTGTTGGACGGAGAA [12144]
Psi TCTCGTCTCCTTATCACTTTTCCAGCCCAGCTGTCTCACTGCA-GGTGTTGGACGGAGAA [11180]
Asp TCTCGTCTCCTTATCACTTTTCCAGCCCAGCTGTCTCACTGCA-GGTGTTGGACGGAGAA [10586]
Ami TCCCATCTCCTTATCACTTTTCCAGCCCAGCTTTCTCATGCTC-ACTGTTGGACGGAGAA [11719]
Asi TCCCATCTCCTTATCACTTTTCCAGCCCAGCTTTCTCATGCTC-ACTGTTGGACGGAGAA [11067]

Tgu TCTCGTGCCCTTATCACTTTTCCAGCCCAGCTTCTGCACTCTG-ACTGTTGGACGGAGAA [9078]
Cli TCTCATCTCCTTATCACTTTTCCAGCCCAGCTTCTTCACTGTA-ACTGTTGGACGGAGAA [11378]
Gga TCTCACCCCTTATCACTTTTCCAGCCCAGCTTCTTCGCTCTG-ACTGTTGGACGGAGAA [10191]
Xtr TATCACTTTCCTTATCACTTTTCCAGCCCAGCTTTTCATGACAA-ACTGTTGGACGGAGAA [10973]
Lch TCACATGTCCTTATCATTTTTTCCAGCCCAGCTTTCAAATGATC-TTTGTGGACGGAGAA [12091]
Dre ACACGTCTCCTTATCACTTTTCCAGCCCAGCTATCCATTTAGTATTCGTTGGACGGAGAA [11132]

Hsa CTGATAAGGGTAGGTGATTG--TGTGAGACCTCGGGCTACAACACAGGACCCGGGCGCTG [11645]
Mmu CTGATAAGGGTAGGTGACTG--TGCGGGTCTCAGGCTACAACACAGGACCCGGGCGCTG [11480]
Mdo CTGATAAGGGTAGGTGATTG--TGTGAGACCTCTGGCTACAACACAGGACACGGGAGCTT [11031]
Meu CTGATAAGGGTAGGTGACTG--TGTGAGACCTCTGGCTACAACACAGGACATGGGAGCTT [9559]
Oan TTGATAAGGGTACGGGGTCG--TGTGAGACCTCCGGCTACAACAGAGGACACAGGAGCTT [10259]
Aca CTGATAAGGGTTTTGTGGGTG--TGTGAGACCTTTGGCTACAACACAGAACATGGGCGCTT [11723]
Pbi CTGATAAGGGTATGTGGGTG----- [11975]
Cpi CTGATAAGGGTATGTGACTG--TGTGAGACCTCGGGCTACAACACAGGACATGGGAGCTT [12451]
Cmy CTGATAAGGGTATGTGACTG--TGTGAGACCTCGGGCTACAACACAGGACATGGGAGCTT [12202]
Psi CTGATAAGGGAACGGGACTG--TGTGAGACCTCGGGCTACAACACAGGACATGGGAGCTT [11238]
Asp CTGATAAGGGAATGGGACTG--TGTGAGACCTCGGGCTACAACACAGGACATGGGAGCTT [10644]
Ami CTGATAAGGGTATGTGACTG--TGTGAGACCTCCGGCTACAACACAGGACATGGGAGCTT [11777]
Asi CTGATAAGGGTATGTGACTG--TGTGAGACCTCCGGCTACAACACAGGACATGGGAGCTT [11125]
Tgu CTGATAAGGGTGC CGAGTG--TGTGAGACCTCCGGCTACAACACAGGACATGGGAGCTT [9136]
Cli CTGATAAGGGTATGCGAGTG--TGTGAGACCTCCGGCTACAACACAGGACATGGGAGCTT [11436]
Gga CTGATAAGGGTGTGCGGGTG--TGTGAGACCTCCGGCTACAACACAGGACATGGGAGCTT [10249]
Xtr CTGATAAGGCTGTGTGACTG--TGGTATACCTTTGGTTACAACACAGGACATGGGAGCTT [11031]
Lch TTGATAAGGGTGTGAGATTG--TGCGATGCCTCGGGCTGCAACACAGGACATGGGAGCTT [12149]
Dre CTGATAAGGGCATGTGCCCG--GGCTGGGCCAGGGGCTGCAACACAGGACATGGGAGCTG [11190]

Hsa ----CTCTGACCCCTCGTGTCTTGTGTTGCAGCCGAGGGGACGCAGG--GCAGGCCTCTG [11699]
Mmu ----CTCTGACCCCTCGTGTCTTGTGTTGCAGCCGAGGGGACGCAGG--GCAGGCCTCTG [11534]
Mdo ----TTCTGAACCCTCGTGTCTTGTGTTGCAGCCAGAGGGGACACATC--GCAGGCCTCTG [11085]
Meu ----TTCTGAACCCTCGTGTCTTGTGTTGCAGCCAGAGGGGACACATC--GCAGGCCTCTG [9613]
Oan ----TTCAGAACCCTCGTGTCTTGTGTTGCAGCCAGAGGAGCACATC--GCAGGCCTCTG [10313]
Aca ----TCTTGGACCCTCGTGTCTTGTGTTGCAGCCAGAGGGGACACATC--GCAGGGCTCTG [11777]
Pbi -----GTGAGACTCTG [11986]
Cpi ----TTCTGAACCCTCGTGTCTTGTGTTGCAGCCAGAGGGGACACATC--GCAGGGCTCTG [12505]
Cmy ----TTCTGAACCCTCGTGTCTTGTGTTGCAGCCAGAGGGGACACATC--GCAGGGCTCTG [12256]
Psi ----TTCTGAACCCTCGTGTCTTGTGTTGCAGCCAGAGGGGACACATC--GCAGGGCTCTG [11292]
Asp ----TTCTGAACCCTCGTGTCTTGTGTTGCAGCCAGAGGGGACACATC--GCAGGGCTCTG [10698]
Ami ----TTCTGAACCCTCGTGTCTTGTGTTGCAGCCAGAGGGGACACATC--GCAGGACTCTG [11831]
Asi ----TTCTGAACCCTCGTGTCTTGTGTTGCAGCCAGAGGGGACACATC--GCAGGACTCTG [11179]
Tgu ----TTCTGAACCCTCGTGTCTTGTGTTGCAGCCAGAGGGGACACATC--GCAAGACTCTG [9190]
Cli ----TTCTGAACCCTCGTGTCTTGTGTTGCAGCCAGAGGGGACACATC--GCAGGACTCTG [11490]
Gga ----TTCTGAACCCTCGTGTCTTGTGTTGCAGCCAGAGGGGACACATC--GCAGGACTCTG [10303]
Xtr A---CTTGAACCCTCGTGTCTTGTGTTGCAGCCAGTGGTGGCCAAA----- [11075]
Lch ----ATTGTAACCCTCGTGTCTTGTGTTGCAGCCAGTGGGGTTGCAT--GCAGGACTCTG [12203]
Dre TCTCTCACTCCCGCTCGTGTCTTGTGTTGCAGCCAGTGGAAACGGCTA--GCAGGCCTCTG [11248]

Hsa TGTGATATGTTTGATATATTAGGTTGTTATTTAATCCAACCTATATATCAAACATATTCCCT [11759]
Mmu TGTGATATGTTTGATATATTAGGTTGTTATTTAATCCAACCTATATATCAAGCATATTCCCT [11594]
Mdo TGTGATATGTTTGATATATTAGGTTGTTATTTAATCCAACCTATATATCAAACATATTCCCT [11145]
Meu TGTGATATGTTTGATATATTAGGTTGTTATTTAATCCAACCTATATATCAAACATATTCCCT [9673]
Oan TGTGATATGTTTGATATATTAGGTTGTTATTTAATCCAACCTATATATCAAACATATTCCCT [10373]
Aca TGTGATATGTTTGATATATTAGGTTGTAATTTGAGCCCAACTATATATCAAACAT--TCCT [11835]
Pbi TGTGATATGTTTGATATATTAGGTTGTAATTTGAGCCCAACTATATATCAAACAT--TCCT [12044]
Cpi TGTGATATGTTTGATATATTAGGTTGTTATTTAATCCAACCTATATATCAAACATATTCCCT [12565]
Cmy TGTGATATGTTTGATATATTAGGTTGTTATTTAATCCAACCTATATATCAAACATATTCCCT [12316]
Psi TGTGATATGTTTGATATATTAGGTTGTTATTTAATCCAACCTATATATCAAACATATTCCCT [11352]

Asp TGTGATATGTTTGGATATATTAGGTTGTTATTTAATCCAACATATATCAAACATATTCCCT [10758]
Ami TGTGATATGTTTGGATATATTAGGTTGTTATTTAATCCAACATATATCAAACATATTCCCT [11891]
Asi TGTGATATGTTTGGATATATTAGGTTGTTATTTAATCCAACATATATCAAACATATTCCCT [11239]
Tgu TGTGATATGTTTGGATATATTAGGTTGTTATTTAATCCAACATATATCAAACATATTCCCT [9250]
Cli TGTGATATGTTTGGATATATTAGGTTGTTATTTAATCCAACATATATCAAACATATTCCCT [11550]
Gga TGTGATATGTTTGGATATATTAGGTTGTTATTTAATCCAACATATATCAAACATATTCCCT [10363]
Xtr ----- [11075]
Lch TGTGATATGTTTGGATATATTAGGTTGTTATTTAATCCAACATATATCAAACATATTCCCT [12263]
Dre TTTGATATGTTTGGATATATTAGGTTGTTATTTCTGTCCAACATATATCAAACATATTCCCT [11308]

Hsa ACAGTGTCTTGCC--GCCTGCTTCTGTGTGATATGTTTGGATATTGGGTTGTTTAAATTAGG [11817]
Mmu ACAGTGTCTTGCC--GCCTGCTTCTGTGTGATATGTTTGGATATTGGGTTGTTTAAATTATG [11652]
Mdo ACAGTGTCTTGCC--CCCTACTTCTGTGTGATATGTTTGGATATTGGGTTGTTTGGATTGGG [11203]
Meu ACAGTGTCTTGCC-----ATGTTTGGATATTAGGTTGTTTGGATTGAG [9714]
Oan ACAGTGTCTTGCC-----CTCTGTGTGATATGTTTGGATATTAGGTTGTTTACGCTAGA [10425]
Aca ACAGGGCCCCGCT--CCCTGCTTCTG--CTGATATGTTTGGATATTAGGTTGTTTCTACTGGG [11892]
Pbi ACGGTGTCTCGCT--CCCAGCCTCTGTCTGATATGTTTGGATATTAAAGTTGTTTCTCCTGGG [12102]
Cpi ATAGTGTCTTGCC--CCCTGCCGCTGGCTGATATGTTTGGATATTAGGTTGTTTATTGGA [12623]
Cmy ATAGTGTCTTGCC--CCCTGCCGCTGGCTGATATGTTTGGATATTAGGTTGTTTATTGGA [12374]
Psi ATAGTGTCTTGCC----- [11365]
Asp ATAGTGTCTTGCC----- [10771]
Ami ACAGTGTCTTGCC--ACCTGCCTCTGTCTGATATGTTTGGATATTAGGTTGTTTATTGGA [11949]
Asi ACAGTGTCTTGCC--ACCTGCCTCTGTCTGATATGTTTGGATATTAGGTTGTTTATTGGA [11297]
Tgu ACAGTGTCTTGCC--CCCTGTCTCTGTCTGATATGTTTGGATATTAGGTTGTTTATTGGA [9308]
Cli ACAGTGTCTTGCC--CCCTGTCTCTGTCTGATATGTTTGGATATTAGGTTGTTTATTGGA [11608]
Gga ACAGTGTCTTGCC--CCCTGCCTCTGTCTGATATGTTTGGATATTAGGTTGTTTGGATTGGA [10421]
Xtr -----CCGTGGTTCTGTCTGATATGTTTGGATATTAGGTTGTTTACTAA- [11119]
Lch ACAGTGTCTTGCC--GTTTGGTTCTGTGTGATATGTTTGGATATTAGGTTGTTTATTAA- [12320]
Dre ACAGTGTCTTGCT--GTTACAGACTATGTGATATGTTTGGATATTCCGGTTGCTTTCTTTAT [11366]

Hsa AA-CC---AACTAAATGTCAAACATATTCTTACAGCAGCAGGT--TGGACAGCGGGCAAC [11871]
Mmu AA-CC---AACTGAATGTCAAGCATACTCTCACAGCAGTAAGG--TGGACAGCGGGCAAC [11706]
Mdo AA-TC---AACTAAATGTCAAACATATTCTTACAGCGGTGGG--TTGACAGCGGGCAAC [11257]
Meu AA-TC---AACTAAATGTCAAACATATTCTTACAGCGGTGGG--TTGACAGCGGGCAAC [9768]
Oan CC-TC---ACCTGAATATCAGACATATTCTTACAGCGGCTGGG--TTGACAGCAGGCAAC [10479]
Aca AAACC---AACTAAATATCAAACATATTCTTACAGCGCCAGGG--TTGATAGTGGGCAAC [11947]
Pbi AAACC---AACTAAATATCAGACATATTCCGACAGCGACTGGG--ATAAGAATGGGCAAC [12158]
Cpi AAACC---AACTAAATATCAAACATATTCTTCCGGCGCCAGGG--ACGACAGCGGGCAAC [12678]
Cmy AAACC---AACTAAATATCAAACATATTCTTCCCGCGCCAGGG--GTGACAGCAGGCAAC [12429]
Psi ----- [11365]
Asp ----- [10771]
Ami AAGCC---AACTAAATATCAAACATATTCTTACAGCGCCAGGG--GCGACAGCGGGCAAC [12004]
Asi AAGCC---AACTAAATATCAAACATATTCTTACAGCGCCAGGG--GCGACAGCGGGCAAC [11352]
Tgu AAACC---AACTAAATATCAAACATATTCTTACAGCGCCAGGG----- [9348]
Cli AAACC---AACTAAATATCAAACATATTCTTACAGCGCCAGGG--GCCACCGCGGGCAAC [11663]
Gga AA-CC---AACTAAATATCAAACATATTCTTACAGCGCCAGGG----- [10460]
Xtr AA-CTC---GACTAAATATCATAACATATTGCTACAGCGCCCTGG--GGTAGCTCTGACAAC [11174]
Lch AAACC---AACTAAATATCAGACATATTCTTACAGCGCCAGAT----- [12360]
Dre ATCATGTCAACTAAATATCAGACATATTCTTATAGACTGTGAC----- [11409]

Hsa GGAATCCCAAAGCAGCTGTTGTCTCCAGAGCATTTCCAGCTGCGCTTGGATTTTCGTCCCC [11931]
Mmu GGAATCCCAAAGCAGCTGTTGTCTCCAGAGCATTTCCAGCTGCACTTGGATTTTCGTCCCC [11766]
Mdo GGAATCCCAAAGCAGCTGTTGTCTCCAGAGCATTTCCAGCTGCAATTGGATTTTCGTCCCC [11317]
Meu GGAATCCCAAAGCAGCTGTTGTCTCCAGAGCATTTCCAGCTGCGATTGGATTTTCGTCCCC [9828]
Oan GGAATCCCAAAGCAGCTGTTGTCTCCAGAGCATTTCCAGCTGCACTTGGATTTTCGTCCCC [10539]
Aca GGAATCCCAAAGCAGCTGTTTCTCTTAAAGTTCCAGCTGCACTTGGATTTTCGTCCCC [12007]
Pbi GGAATCCCAAAGCAGCTGTTTCTCTGAGTCTTCCAGCTGCACTTGGATTTCCGTCCCC [12218]

Cpi	GGAATCCCAAAAGCAGCTGTCTTCCCTCTGAGCATTCAGCTGCGGTTGGATTTTCGTTACC	[12738]
Cmy	GGAATCCCAAAAGCAGCTGTCTTCCCTCTGAGCATCCCAGCTGCGGTTGGATTTTCGTTACC	[12489]
Psi	-----	[11365]
Asp	-----	[10771]
Ami	GGAATCCCAAAAGCAGCTGTCTTCCGCTCGGCACCTCAGCTGCGCTTGGATTTTCGTTCCC	[12064]
Asi	GGAATCCCAAAAGCAGCTGTCTTCCGCTCGGCACCTCAGCTGCGCTTGGATTTTCGTTCCC	[11412]
Tgu	-----	[9348]
Cli	GGAATCCCAAAAGCAGCTGTCCCCGCTG----TGCCCAGCTGCCCTGGGGTTTCGTTACC	[11719]
Gga	-----	[10460]
Xtr	GGAATCCCAAAAGCAGCTGTTGTGAAAA----TGTTTCAGCTGCAGTTGGGACCCGTTTCAC	[11230]
Lch	-----	[12360]
Dre	-----	[11409]
Hsa	TGCTCTCCTGCC--GTGCACAGGG-CTCTGACCT-ATGAATTGACAGCCAGTGCTCTCGT	[11987]
Mmu	TGCTCTCCTGCC--GTGCACAGGG-CTCTGACCT-ATGAATTGACAGCCAGTACTCTTTT	[11822]
Mdo	TGCTCTCCTGCC-----	[11329]
Meu	TGCTCTCCTGCC--GTGCGCAGGGGCTCTGACCTTATGAATTGACAGCCAGTACTCATTC	[9886]
Oan	TGCTATCCTGCA--GCGCACAGGG-CTCTGACCT-ATGAATTGACAGCCAGTTCTCTC-T	[10594]
Aca	TGCTTTCCCTACC-----	[12019]
Pbi	TGCTCTTTTGCT-----	[12230]
Cpi	TGCTCTCCTGCC--GTGCACAGGA-CTATGACCT-ATGAATTGACAGCCAGTCCTTCTGC	[12794]
Cmy	TGCTCTCCTGCC--GTGCACAGGC-CTATGACCT-ATGAATTGACAGCCAGTCCTGCTGC	[12545]
Psi	-----GTGCACAGGA-CTATGACCT-ATGAATTGACAGCCAGTCCTGCCAT	[11409]
Asp	-----GTGCACAGGA-CTATGACCT-ATGAATTGACAGCCAGTCCTGCCAT	[10815]
Ami	TGCTCTCCC GCC--GTGCATGGGG-CTATGACCT-ATGGATTGACAGCCAGTATCGGAGC	[12120]
Asi	TGCTCTCCC GCC--GTGCATGGGG-CTATGACCT-ATGGATTGACAGCCAGTATCCGAGC	[11468]
Tgu	-----	[9348]
Cli	CGCGCTCCC GCC-----	[11731]
Gga	-----	[10460]
Xtr	GGATCTATTGCC--GTGTACGGGC-CTATGACCT-ATGAATTGACAGCCAGTGGATGTGA	[11286]
Lch	-----CTGGACAGGC-CTATGACCT-ATGTATTGACAGTCAGTTGGCCATC	[12404]
Dre	-----GGACACAGGG-TGATGACCT-ATGAATTGACAGCCAGTGTTTGCAG	[11453]
Hsa	CTCCCCTCTGGCTGCCAATTCCATAGGTCACAGGTATGTTTCGCC--GTATACAGGAAAAAT	[12045]
Mmu	CTCTCCTCTGGCTGCCAATTCCATAGGTCACAGGTATGTTTCACC--GTGTACAGGAGAAT	[11880]
Mdo	-----GTGTGTAGGAAAAAT	[11343]
Meu	TCCCTTTCTGGCTGCCAATTCCATAGGTCACAGGTATGTTTCGCC-----	[9930]
Oan	GACCCCTCTGGCTGCCAATTCCATAGGTCACAGGTATGTTTCGCC--GTGTACAGGAAAAAT	[10652]
Aca	-----AGGCTTAGGGTAAT	[12033]
Pbi	-----AGGTCCAGGGTAAT	[12244]
Cpi	CGCGCC-CTGGCTGTCAGTTCTGTAGGGCACAGGTATGTTTCACC--GTGTACAGGAAAAAT	[12851]
Cmy	---GCC-CTGGCTGTCAGTTCTGTAGGGCACAGGTATGTTTCACC--GTGTACAGGAAAAAT	[12599]
Psi	---GCC-TTGGCTGTCAGTTCTGTAGGGCACAGGTATGTTTCACC--GTATATAGGAAAAAT	[11463]
Asp	---GCC-TTGGCTGTCAGTTCTGTAGGGCACAGGTATGTTTCACC--GTGTATAGGAAAAAT	[10869]
Ami	CTCGCC-CTGGCTGTCAGTTCTGTATAGGGCATAGGACTGGGCGCA--TTGTGCAGGAAAAAT	[12177]
Asi	TTCGCC-CTGGCTGTCAGTTCTGTATAGGGCATAGGACTGGGCGCA--TTGTGCAGGAAAAAT	[11525]
Tgu	-----GTGTCCAGGAAAAAT	[9362]
Cli	-----GTGTCCAGGAAAAAT	[11745]
Gga	-----GTGTCCAGGAAAAAT	[10474]
Xtr	AGT----CTGCCTGTCAATTCTGTAGGCCACAGGTTTCGTTCCACC--GTAACCAGGAGGAT	[11340]
Lch	TAGAAT-CTGGCTGTCAATTCTGTAGGTCACAGGTATGTTAGCC--GCTAACAGGACAAT	[12461]
Dre	TCCAG--CTGCCTGTCAGTTCTGTAGGGCACTGCCCTGTTTATC-----	[11495]
Hsa	GACCTATGAATTGACAGACAATATAGCT---GAGTTTGTCTGTCATTTCTTTAGGCCAAT	[12102]
Mmu	GACCTATGATTTGACAGACCGTGCAGCT---GTGTATGTCTGTCATTTCTGTAGGCCAAT	[11936]
Mdo	GACCTATGAATTGACAGACATATATTTA--AAGTTTGTCTGTCATTTCTGTAGGCCAAT	[11401]
Meu	-----	[9930]

Oan GACCTATGAATTGACAGACAGTATATTTA----GATTGTCTGTCATTTCTGTAGGCCAAA [10708]
Aca GACCTATGATTTGACAGACTGTGCTTTCT--ATGTCTGCCTGTCATTTCTGTAGGCCAAT [12091]
Pbi GACCTATGATTTGACAGACTGTGCTATGT--AAGTCTGCCTGTCATTTCTGTAGGCCAAT [12302]
Cpi GACCTATGAATTGACAGACTGTGTCTTTCT--AAATTTGTCTGTCACCTTCTGTAGGCCAAT [12909]
Cmy GACCTATGAATTGACAGACTGTGTCTTTCT--AAATTTGTCTGTCACCTTCTGTAGGCCAAT [12657]
Psi GACCTATGAATTGATAGACTGTGACTTTT--AAATTTGTCTGTCAGTTCTGTAGGCCAAT [11521]
Asp GACCTATGAATTGATAGACTGTGACTTTT--AAATTTGTCTGTCAGTTCTGTAGGCCAAT [10927]
Ami GACCTATGAATTGACAGACTGTGTATTCT--AAGCTTGTCTGTCATTTCTGTAGGCCAAT [12235]
Asi GACCTATGAATTGACAGACTGTGTATTCT--AAGCTTGTCTGTCATTTCTGTAGGCCAAT [11583]
Tgu GACCTATGAATTGACAGACTGTCTTTT----GCATTTGCCTGTCACCTTCTATAGGCCAAT [9418]
Cli GACCTATGAATTGACAGACTGCTTTTCT----AAACTTGCCTGTCATTTCTATAGGCCAAT [11801]
Gga GACCTATGAATTGACAGACTGCTTTTCA----AAATGTGCCTGTCATTTCTATAGGCCAAT [10530]
Xtr GACCTATGAAATGACAGCCA-CTTCCATACCAAACATGTCTGTCATTTCTGTAGGCCAAT [11399]
Lch GACCTATGAATTGACAGCCAGTGAAGTTGATGAATTTGTCTGTCAGTTCTATAGGCCACT [12521]
Dre ----- [11495]

Hsa ATTCTGTATGAC--ATGGGAGCTGAGGGCTGGGTCTTTGCGGGCGAGATGAGGG----- [12154]
Mmu ATTCTGTATGTC--ACGGGAGCTGAGAGCTGGGTCTTTGCGGGCAAGATGAGAG----- [11988]
Mdo GCCTTGTATGTC--ACGGGAGTTGAGGATTGGGTCTTTGTGGGCGAGATGAGGG----- [11453]
Meu -----ACGGGAGTTGAGGACTGGGTCTTTGCGGGCGAGATGAGGG----- [9970]
Oan GTTCTGCATGCC----- [10720]
Aca ACTCTGTACGCC--TTGGGGGTCTGGGCCTGGGTCTTTGCGGGCGAGATGAGAAGTTT-- [12147]
Pbi ACTCTGCATATC--CTGGGAGTTTGGGGCTGGGTCTTTGCGGGCGAGATGAGAAGTT-- [12357]
Cpi ATTCTGCATGCC--GGGCGAGTCTAGGGCTGGGTCTTTGCGGGCGAGATGAGAGGTT-- [12964]
Cmy ATTCTGCATGCC--GGGCGAGTCTAGGGCTGGGTCTTTGCGGGCGAGATGAGAGGTT-- [12712]
Psi TTTCTGTATGCC--GGGTGAGTCTAGGGCTGGGTCTTTGCGGGCGAGATGAGAGGTT-- [11576]
Asp TTTCTGAATGCC--GGGTGAGTCTAGGGCTGGGTCTTTGCGGGCGAGATGAGAGGTT-- [10982]
Ami ATTCTGCACACC--ATGCGAGCTGAGGGCTGGGTCTTTGCGGGCGAGGTGAGAGGTT-- [12290]
Asi ATTCTGCACACC--ATGCGAGCTGAGGGCTGGGTCTTTGCGGGCGAGGTGAGAGGTT-- [11638]
Tgu ATTCTGTGCACT-----GCTGGGTCTTTGCGGGCGAGATGAGAGGTT-- [9460]
Cli ATTCTGCACACT--GGGCGAGCTGAGGGCTGGGTCTTTGCGGGCGAGATGAGAGGTT-- [11856]
Gga ATTCTGTGCACT--GGGCGAGCTGAGGGCTGGGTCTTTGCGGGCGAGATGAGAGGTT-- [10585]
Xtr ATTCTGATTGCT----- [11411]
Lch ATTCTGTATCCA--ATGTGGGTTTGGGGCTGGGTCTTTGCGGGCGAGATGAGGTCAGT-- [12577]
Dre -----TAATGTGTTAGAGGTTGGGTCTTTGCGGGCAAGGTGAGTAGTTAAA [11541]

Hsa TGTGCGATCAACTGGCCTACAAAGTCCCAGTTCTCGGCCCCC--AAGAAAAATGAGGGAC [12212]
Mmu TGTGAGTTCAACTGGCCTACAAAGTCCCAGTCTCGGTCCCC--AAGAAAAATGAGGGAC [12046]
Mdo TGTGAGTTCAACTGGCCTACAAAGTCCCAGTTCTCGGTTCCC----- [11495]
Meu TGTCAATTCAACTGGCCTACAAAGTCCCAGTTCTCGGTTCCC--AAGAAAAAGGAGGGAC [10028]
Oan -----AAGAAAAATGAGGGAC [10736]
Aca CCTGCCTTCAACTGGCCTACAAAGTCCCAGTCTCGGCCCTT--AAGAAAAATGAGGGAC [12205]
Pbi TCTGCCTTCAACTGGCCTACAAAGTCCCAGTTCTCGGCTCTT--AAGAAAAATGAGGGAC [12415]
Cpi TGTGGATTCAACTGGCCTACAAAGTCCCAGTTCTCGGCTCCC--AAGAAAAATGAGGGAC [13022]
Cmy TGTGCATTCAACTGGCCTACAAAGTCCCAGTTCTCGGCTCCC--AAGAAAAATGAGGGAC [12770]
Psi TGTGGATTCAACTGGCCTACAAAGTCCCAGTTCTCGGCTCCC--AAGAAAAATGAGGGAC [11634]
Asp TGTGGATTCAACTGGCCTACAAAGTCCCAGTTCTCGGCTCCC--AAGAAAAATGAGGGAC [11040]
Ami CGTGCCTTCAACTGGCCTACAAAGTCCCAGTTCTCGGCTCCC--AAGAAAAATGAGGGAC [12348]
Asi CGTGCCTTCAACTGGCCTACAAAGTCCCAGTTCTCGGCTCCC--AAGAAAAATGAGGGAC [11696]
Tgu CCTGTCTTCAACTGGCCTACAAAGTCCCAGTTCTCGGCTCCC--AAGAAAAATGAGGGAC [9518]
Cli CATGTCTTCAACTGGCCTACAAAGTCCCAGTTCTCGGCTCCC--AAGAAAAATGAGGGAC [11914]
Gga CGTGTCTTCAACTGGCCTACAAAGTCCCAGTTCTCGGCTCCC--AAGAAAAATGAGGGAC [10643]
Xtr ----- [11411]
Lch TCTTCAATCAACTGGCCTACAAAGTCCCAGTTCTCAGCTCAT--AAGAAAAATGAGGGAC [12635]
Dre TTTACTCTCAACTGGCCTACAAAGTCCCAGTTTCTGGCTCAT--AAGAAAAATGAGGGAC [11599]

Hsa TTTTCAGGGGCGACTGTGTTTT--CTGACTCAGTCATAATGCCCTAAAAATCCTTATTGTT [12271]

Mmu	TTTCAGGGGCAGCTGTGTTTC-CTGACTCAGTCATAATGCCCCATAAAAATCCTTATTGTT	[12105]
Mdo	-----	[11495]
Meu	TTTCAGGGGCAGCTGTGTTTTATTAACCTCAGTCATAATGCCCCATAAAAATCCTTATTGTT	[10088]
Oan	TTTCAGGGGCAGCTGTGTTTTACTGACCCAGTCATAATGCCCCATAAAAATCCTTATTGTT	[10796]
Aca	TTTCAGGGGCAGCTGTGTTTTACTAACCCAGTCATAATGCCCCATAAAAATCCTTATTGTT	[12265]
Pbi	TTTCAGGGGCAGCTGTGTTTTACTAACCCAGTCATAATGCCCCATAAAAATCCTTATTGTT	[12475]
Cpi	TTTCAGGGGCAGCTGTGTTTTACTAACCCAGTCATAATGCCCCATAAAAATCCTTATTGTT	[13082]
Cmy	TTTCAGGGGCAGCTGTGTTTTACTAACCCAGTCATAATGCCCCATAAAAATCCTTATTGTT	[12830]
Psi	TTTCAGGGGCAGCTGTGTTTTACTAACCCAGTCATAATGCCCCATAAAAATCCTTATTGTT	[11694]
Asp	TTTCAGGGGCAGCTGTGTTTTACTAACCCAGTCATAATGCCCCATAAAAATCCTTATTGTT	[11100]
Ami	TTTCAGGGGCAGCTGTGTTTTACTAACCCAGTCATAATGCCCCATAAAAATCCTTATTGTT	[12408]
Asi	TTTCAGGGGCAGCTGTGTTTTACTAACCCAGTCATAATGCCCCATAAAAATCCTTATTGTT	[11756]
Tgu	TTTCAGGGGCAGCTGTGTTTTACTAACCCAGTCATAATGCCCCATAAAAATCCTTATTGTT	[9578]
Cli	TTTCAGGGGCAGCTGTGTTTTGCTAACCCAGTCATAATGCCCCATAAAAATCCTTATTGTT	[11974]
Gga	TTTCAGGGGCAGCTGTGTTTTACTAACCCAGTCATAATGCCCCATAAAAATCCTTATTGTT	[10703]
Xtr	-----	[11411]
Lch	TTTTAGGGGCAGCTGTGTTTTGCTAACCCAGTCATAATGCCCCATAAAAATCCTTATTGTT	[12695]
Dre	TTTTAGGGGCAGCTGTGTTTTATTAACCCAGTCATAATGCCCCATAAAAATCCTTATTGTT	[11659]
Hsa	C--GTGGTCTCAGAAATCGGGGTTTTGAGGGCGAGATGAGTTT-ATGTTTTATCCAACCTGG	[12328]
Mmu	C--GTGGGCCCAGAAATCGGGGTTTTGAGGGCGAGATGAGTTT-GTGTTTTTATCCAACCTGG	[12162]
Mdo	---GTGATTCCAGAGTCGGGGTTTTGAGGGCGAGATGAGTTT-ATGTTTTATCCAACCTGG	[11551]
Meu	C-----	[10089]
Oan	C--GTGATTCCAGAGTCGGGGTTTTGAGGGCGAGATGAGTTT-GTGTTTTTATCCAACCTGG	[10853]
Aca	C-----	[12266]
Pbi	C--GTGAATCCGGGGCCGGGGCTTTGGGGCGAGATGAGCTT-GCCCGGTATCCAACCTGG	[12532]
Cpi	C--GTGGTTCAGAGTCGGGGTTTTGAGGGCGAGATGAGCTT-ATGTTTTATCCAACCTGG	[13139]
Cmy	C--GTGGTTCAGAGTCGGGGTTTTGAGGGCGAGATGAGCTT-ATGTTTTATCCAACCTGG	[12887]
Psi	C--GTGGTTCAGAGTCGGGGTTTTGAGGGCGAGATGAGCTT-ATGTTTTATCCAACCTGG	[11751]
Asp	C--GTGGTTCAGAGTCGGGGTTTTGAGGGCGAGATGAGCTT-ATGTTTTATCCAACCTGG	[11157]
Ami	C--GTGGTTCAGAGTCGGGGTTTTGAGGGCAAGATGAGCTT-ATGTTTTATCCAACCTGG	[12465]
Asi	C--GTGGTTCAGAGTCGGGGTTTTGAGGGCAAGATGAGCTT-ATGTTTTATCCAACCTGG	[11813]
Tgu	C--GTGGTTCAGAGTCGGGGTTTTGAGGGCGAGATGAGCTT-ATGTTTTATCCAACCTGG	[9635]
Cli	C--GTGGTTCAGAGTCGGGGTTTTGAGGGCGAGATGAGCTT-ATGTTTTATCCAACCTGG	[12031]
Gga	C--GTGGTTCAGAGTCGGGGTTTTGAGGGCGAGATGAGCTT-ATGTTTTATCCAACCTGG	[10760]
Xtr	---GTGGTTTTCCGAGTCGGGATTTTTGAGGGCGAGATGAGCTA-ATGATTATCCAACCTGG	[11467]
Lch	C--GTGGTTCCAAACCTCGGGGTTTTGAGGGCCGGATGAGCTG-ATTTTTAATCCAACCTGG	[12752]
Dre	C--GTGATTTCAGTGACGGGACTTTGGGGCGAGATGAGTATTGATCTCTATCCAACCTGG	[11717]
Hsa	CCCTCAAAGTCCCCTTTTTGG-GGTCA--AGGGAAAATGAGGGACTTTTTGGGGCAGATG	[12385]
Mmu	CCCACAAAGTCCCCTTTTTGG-GGTCA--AGGGAAAATGAGGGACTTTTTGGGGCAGATG	[12219]
Mdo	CCCACAAAGTCCCCTTTTTGGTGGTCA--AGGGAAAATGAGGGACTTTTTGGGGCAGATG	[11609]
Meu	-----AGGGAAAATGAGGGACTTTTTGGGGCAGATG	[10120]
Oan	CCCACAAAGTCCCCTTTTTGGTGGTCA--AGGGAAAATGAGGGACTTTTTGGGGCAGATG	[10911]
Aca	-----	[12266]
Pbi	CCCACAAAGTCCCCTTCTGG-GGTCA--AGGGAAAATGAGGGACTTTTTGGGGCAGCTG	[12589]
Cpi	CCCACAAAGTCCCCTTTTTGGTGGTCA--AGGGAAAATGAGGGACTTTTTGGGGCAGATG	[13197]
Cmy	CCCACAAAGTCCCCTTTTTGGTGGTCA--AGGGAAAATGAGGGACTTTTTGGGGCAGATG	[12945]
Psi	CCCACAAAGTCCCCTTTTTGGTGGTCA--AGGGAAAATGAGGGACTTTTTGGGGCAGATG	[11809]
Asp	CCCACAAAGTCCCCTTTTTGGTGGTCA--AGGGAAAATGAGGGACTTTTTGGGGCAGATG	[11215]
Ami	CCCACAAAGTCCCCTTTTTGGTGGTCA--AGGGAAAATGAGGGACTTTTTGGGGCAGTTG	[12523]
Asi	CCCACAAAGTCCCCTTTTTGGTGGTCA--AGGGAAAATGAGGGACTTTTTGGGGCAGTTG	[11871]
Tgu	CCCACAAAGTCCCCTTTTTGGTGGTCA--AGGGAAAATGAGGGACTTTTTGGGGCAGATG	[9693]
Cli	CCCACAAAGTCCCCTTTTTGGTGGTCA--AGGGAAAATGAGGGACTTTTTGGGGCAGATG	[12089]
Gga	CCCACAAAGTCCCCTTTTTGGTGGTCA--AGGGAAAATGAGGGACTTTTTGGGGCAGATG	[10818]
Xtr	CCCGCAAAGTCCCCTTCTGGAAGTCA--AGGGAAAATGAGGGACTTTTTGGGGCAGATG	[11525]
Lch	CCCGCAAAGTCCCCTTTTTGGAAGTCA--AGGGAAAATGAGGGACTTTTTGGGGCAGATG	[12810]

Dre CCCGCAAAGTCCCCTTCTGGGACTCA--AGGGAGAATGAGGGGCTTTTGGGGGCACTTG [11775]

Hsa TGTTTCCAT-TCCACTATCATAATGCCCTAAAAATCCTTATTGCT--GGTCCC GCCCCC [12442]
Mmu TGTTTCCAT-TCCGCTATCATAATGCCCTAAAAATCCTTATTGCT--GGCTCCCACCCCT [12276]
Mdo TGTTTCCAT-TACTACTATCATAATGCCCTAAAAATCCTTATTGCT----- [11654]
Meu TGTTTCCAT-TACTACTATCATAATGCCCTAAAAAGCGTTATTGCT--GGCGCTCACTCC [10177]
Oan TGTTTCCAT-TGCACTATCATAATGCCCTAAAAATCCTTATTGCT--GGAGCCCACCCC [10968]
Aca -----GGTCCCATCGG [12278]
Pbi TGTT-CTTC-CATGCTACCATAATGCCCTAAAAATCCTTATTGCT--GGTGTCTATCGG [12645]
Cpi TGTTTCCAT-TACTACTATCATAATGCCCTAAAAATCCTTATTACT--GATGCCTATTGG [13254]
Cmy TGTTTCCAT-TACTACTATCATAATGCCCTAAAAATCCTTATTACT--GATGCCTAATGG [13002]
Psi TGTTTCCAT-TACTACTATCATAATGCCCTAAAAATCCTTATTACT--GATGCCTATTGG [11866]
Asp TGTTTCCAT-TACTACTATCATAATGCCCTAAAAATCCTTATTACT--GATGCCTATTGG [11272]
Ami TGTTTCCAT-TACTACTATCATAATGCCCTAAAAATCCTTATTGCT--GGTGTCCATCCG [12580]
Asi TGTTTCCAT-TACTACTATCATAATGCCCTAAAAATCCTTATTGCT--GGTGTCCATCCG [11928]
Tgu TGTTTCCAT-TACTACTATCATAATGCCCTAAAAATCCTTATTGCT----- [9738]
Cli TGTTTCCAT-TACTACTATCATAATGCCCTAAAAATCCTTATTGCT----- [12134]
Gga TGTTTCCAT-TACTACTATCATAATGCCCTAAAAATCCTTATTGCT----- [10863]
Xtr TGTTTCACT-TACTACTACCATAATGCCCTAAAAATCCTTATTGTT--GATGCTCATAAC [11582]
Lch TGTTTCAGTGTACTACTATCATAATGCCCTAAAAATCCTTATTGCT--AGTGTGCTTCAG [12868]
Dre TGTTTCAGT-TTACCATCATAATGCCCTAAAAATCCTTATTGCT--GGTGTGACTGC [11832]

Hsa CTGTAACAGCAACTCCATGTGGAAGT--GCCCACTGGTTCAGTGGGGCTGCTGTTATCT [12500]
Mmu CTGTAACAGCAACTCCATGTGGAAGT--GCCCACTGGTTCAGTGGGGCTGCTGTTATCT [12334]
Mdo ----- [11654]
Meu CTGTAACAGCAACTCCATGTGGGACA--GCTTCCTGCTTCCAGTGGGGGTGCTGTTACCT [10235]
Oan TTGTAACAGCAACTCCATGTGGAAGG--GTCTCCTGGTTCAGTGGAGCTGCTGTTATCT [11026]
Aca CTGTAACAGCAACTCCATGTGGAAGC--AGTCCGGCCGTTCAGTGGAGCGGCTGTTATAG [12337]
Pbi CTGTAACAGCAACTCCATGTGGAAGC--ATGAGGCAGTTCCTCGTGGGGGGGCTGTTATTT [12703]
Cpi ATGTAACAGCAACTCCATGTGGAAGGTTTCATCCCTTTTCCAGTGGGGCTGCTGTTATTT [13314]
Cmy ATGTAACAGCAACTCCATGTGGAAGGTTTCATCCTGTTTCCAGTGGGGCTGCTGTTATTT [13062]
Psi ATGTAACAGCAACTCCATGTGGAAGGTTTCATTCTGTTTCCAGTGGGGCTGCTGTTATTT [11926]
Asp ATGTAACAGCAACTCCATGTGGAAGGTTTCATCCTGTTTCCAGTGGGGCTGCTGTTATTT [11332]
Ami CTGTAACAGCAACTCCATGTGGGAGG--GGTCCGTGGTCCCCGTGGGGCTGCTGTTATTC [12638]
Asi CTGTAACAGCAACTCCATGTGGGAGG--GGTCCGTGGTCCCCGTGGGGCTGCTGTTATTC [11986]
Tgu ----- [9738]
Cli ----- [12134]
Gga ----- [10863]
Xtr CTGTAACAGCAACTCCATGTGGAAGT--AGATATAATATTCCGGTGGAGATGCTGTTATCT [11641]
Lch GTGTAACAGCAACTCCATGTGGATGG----CAATGGCTTCCAGTGGAGCTGCTGTTACTTT [12924]
Dre TTGTAACAGCAACTCCATGTGGAAGG---TTTGTGTCTTCCAGTGGAGCTGCTGTTGCGT [11889]

Hsa GG-GGCGAGGGCC--TGGTGT-TATCAAGTGTAACAGCAACTCCATGTGGACTGTGTACC [12556]
Mmu GG-GGTGGCGGCT--TGGAGT-CATCGGGTGTAACAGCAACTCCATGTGGACTGTGCTC- [12389]
Mdo ----- [11654]
Meu TG-GGTGGGCAGC----- [10247]
Oan TG-GGTGGGTCAT--CAGTGT-TATCATATGTAACAGCAACTCCATGTGGATTAT--GCT [11080]
Aca TC-GGTGGGGGCT--CAGTGT-CGTCAAGTGTAACAGCAACTCCATGTGGAATAA--GTA [12391]
Pbi TG-GATGGGCACT--CGGTGT-TATCAAGTGTAACAGCAACTCCATGTGGAATAA--GCC [12757]
Cpi TT-GATAGGCTGT--CAGTGT-TATCAGATGTAACAGCAACTCCATGTGGACTAC--ACT [13368]
Cmy TT-GATAGGCTGT--CAGTAT-TATCAGATGTAACAGCAACTCCATGTGGACTAC--ACT [13116]
Psi TT-GATAGGCTAT--CAGTGT-TATCAGATGTAACAGCAACTCCATGTGGACTAC--ACC [11980]
Asp TT-GATAGGCCAT--CAGTGT-TATCAGATGTAACAGCAACTCCATGTGGACTAC--ACC [11386]
Ami TG-GACGGGCACC--CAGTAC-TTTCAAATGTAACAGCAACTCCATGTGGACTAC--GCT [12692]
Asi TG-GACGGGCACC--CAGTAC-TTTCAAATGTAACAGCAACTCCATGTGGACTAC--GCT [12040]
Tgu -----TGGTGC-TCTCATATGTAACAGCAACTCCATGTGGACTAC--ACT [9780]
Cli -----GGGCGC-TCTCAGATGTAACAGCAACTCCATGTGGACTAC--ACT [12176]

Gga -----TGGTGC-TCTCATATGTAACAGCAACTCCATGTGGACTAC--ACT [10905]
Xtr GT-AATGTGTATC--TAGTGTGTATCAGGTGTAACAGCAACTCCATGTGGACTTG--TCC [11696]
Lch TT-GATGGGCACT--CAGTGTGCTTCAGGTGTAACAGCAACTCCATGTGGATGGC--AAT [12979]
Dre GCAGATAGTCACC----- [11902]

Hsa AATTTCCAGTGGAGATGCTGTTACTTTTGATGGTTACCAA--GCTGAGTGAATTAGGTAG [12614]
Mmu GGATTCCAGTGGAGCTGCTGTTACTTCTGATGGCCTCCAA--GTTGAGTGAAGTAGGTAG [12447]
Mdo -----GCTCAGTGGGTTAGGTAG [11672]
Meu -----GCTCAGTGGGTTAGGTAG [10265]
Oan GATTTCCAGTGGAGAGGCTGTTACTTTTGATGGAACTGG----- [11120]
Aca GATTTCCAGTGGAGGTGCTGTTACTTTTGAA-GCTACTGA--GTTCTGTGGATTAGGTAG [12448]
Pbi TCTTTCCAGTGGAGGTGGTGTACTTTTGAAAGCCACTGA--GTTCTGTGAATTAGGTAG [12815]
Cpi GACTTCCAGTGGAGATGCTGTTACTTTTGATATCTACTGA--GCTTTGTGAATTAGGTAG [13426]
Cmy GACTTCCAGTGGAGATGCTGTTACTTTTGATATCTACTGA--GCTCTGTGAATTAGGTAG [13174]
Psi AACTTCCAGTGGAGATGCTGTTACTTTTGATATCTACTGA--GCTTTGTGAATTAGGTAG [12038]
Asp AACTTCCAGTGGAGATGCTGTTACTTTTGATATCTACTGA--GCTTTGTGAATTAGGTAG [11444]
Ami GACTTCCAGTGGAGATGCTGTTACTTTTGACAGCCACTCA--GCTTTGTGAATTAGGTAG [12750]
Asi GACTTCCAGTGGAGATGCTGTTACTTTTGACAGCCACTCA--GCTTTGTGAATTAGGTAG [12098]
Tgu GACTTCCAGTGGAGATGCTGTTACTTTTGATGGTCACTCA----- [9820]
Cli GACTTCCAGTGGAGATGCTGTTACTTTTGATAGCCTCTCA--GCTCTGTGAATTAGGTAG [12234]
Gga GACTTCCAGTGGAGATGCTGTTACTTTTGATAGCGGCTCA--GCTCTGTGAATTAGGTAG [10963]
Xtr GTATTCCAGTGGAGATGCTGTTACTTTTGATGGGCACTTA----- [11736]
Lch GGCTTCCAGTGGAGCTGCTGTTACTTTTGATGGGCACTAA--GCGGTGTGTTTAGGTAG [13037]
Dre -----GGTCTGTGATTAGGTAG [11920]

Hsa TTTTCATGTTGTTGGGCTGGGTTTCTGA--ACACAACAACATTAACCACCCGATTTCACG [12672]
Mmu TTTTCATGTTGTTGGGCTGGCTTTCTGA--ACACAACGACATCAAACCACCTGATTTCATG [12505]
Mdo TTTTCCTGTTGTTGGGCTTAGATTTCTAA--ACACAAGAACATCAAACCACCTGATTCACT [11730]
Meu TTTTCCTGTTGTTGGGCTTAGATTTCTAA--ACACAAGAACATCAAACCACCTGATTCACT [10323]
Oan ----- [11120]
Aca TTTTCACGTTGTTGGGAATTCATTTTTAAC-ACACAAGAACATAAAAACCTGATTACT [12507]
Pbi TTTTCACGTTGTTGGGAATTCATTTTTAAT-ACACAAGAACATAAAAACCTGATTACT [12874]
Cpi TTTTCATGTTGTTGGGGTTTTATTTTTAA--ACACAAGAACATAAAAACCTGATTACT [13484]
Cmy TTTTCATGTTGTTGGGGTTTTATTTTTAA--ACACAAGAACATAAAAACCTGATTACT [13232]
Psi TTTTCATGTTGTTGGGCTTCTAGTTTTTTAAACACAAGAACATAAAAACCTGATTACT [12098]
Asp TTTTCATGTTGTTGGGCTTCTAGTTTTTTAAACACAAGAACATAAAAACCTGATTACT [11504]
Ami TTTTCATGTTGTTGGGCTTTTTATTTTTAA--ACACAAGAACATAAAAACCTGATTACT [12808]
Asi TTTTCATGTTGTTGGGCTTTTTATTTTTAA--ACACAAGAACATAAAAACCTGATTACT [12156]
Tgu ----- [9820]
Cli TTTTCATGTTGTTGGGCTTTTTAATTTTTAA--ACACAAGAACATCAAACCTGATTACT [12292]
Gga TTTTCATGTTGTTGGGCTTTAAATTTTTAA--ACACAAGAACATCAAACCTGATTACT [11021]
Xtr ----- [11736]
Lch TTTTCATGTTGTTGGGCTTTTT-TTTTTAA--TCACAGGAACATCAAACCTGCCTGAATTACT [13094]
Dre TTTTCAAGTTGTTGGGCTGGACGTTTTAAT-TTCACAGGAACCTGAAACCTGCCTGAATTGCT [11979]

Hsa GCAGTT-ACT--TGATCTGTGGCTTAGGTAGTTTCATGTTGTTGGGATTGAGTTTTG--A [12727]
Mmu GCAGTT-ACT--TGATCTGTGGCTTAGGTAGTTTCATGTTGTTGGGATTGAGTTTTG--A [12560]
Mdo GCAGTT-ACT----- [11739]
Meu GCAGTT-ACT----- [10332]
Oan -----TGGTCTGTGGCTTAGGTAGTTTCATGTTGTTGGGATTGAATTTTTG--A [11166]
Aca CCAGTTTATT--TGATCCGTGGTTTTAGGTAGTTTCATGTTGTTGGGGTTGGCTTTTT--A [12562]
Pbi CCAGTTTATT--TGTTCCGTGGTTTTAGGTAGTTTCATGTTGTTGGGGTTGGCTTTTT--A [12929]
Cpi CCAGTT-ATT--TGATCTGTGGTTTTAGGTAGTTTCATGTTGTTGGGATTGGCTTTTT--A [13538]
Cmy CCAGTT-ATT--TGATCTGTGGTTTTAGGTAGTTTCATGTTGTTGGGATTGGCTTTTT--A [13286]
Psi CCAGTT-ATT--TGATCTGTGGTTTTAGGTAGTTTCATGTTGTTGGGATTGGCTTTTT--A [12152]
Asp CCAGTT-ATT--TGATCTGTGGTTTTAGGTAGTTTCATGTTGTTGGGATTGGCTTTTT--A [11558]
Ami CCAGTT-ATT--TGATCTGTGGTTTTAGGTAGTTTCATGTTGTTGGGATTGGCTTTTT--A [12862]

Asi CCAGTT-ATT--TGATCTGTGGTTTAGGTAGTTTCATGTTGTTGGGATTGGCTTTT---A [12210]
Tgu -----TGATCTGTGGTTTAGGTAGTTTCATGTTGTTGGGATGGGCTTTA---G [9865]
Cli CCAGTT-ATC--TGATCTGTGGTTTAGGTAGTTTCATGTTGTTGGGATTGGCTTTT---A [12346]
Gga CCAGTT-ATC--TGATCTGTGGTTTAGGTAGTTTCATGTTGTTGGGATTGGCTTTT---A [11075]
Xtr -----TGATCTGTGGTTTAGGTAGTTTCATGTTGTTGGGATTGCTTTTTTCTTA [11784]
Lch CCAGTT-ACC--TGATCTGTGGTTTAGGTAGTTTCATGTTGTTGGGATTGGCTTTT---A [13148]
Dre CCAGTT-AAA--TGGTGCCTGGTTTAGGTAGTTTCATGTTGTTGGGATTGGCTTCC--TG [12034]

Hsa ACTCGGCAACAAGAAACTGCCTGAGTTACATCAGTCGGT--TGGTCGGTGATTTAGGTAG [12785]
Mmu ACTCGGCAACAAGAAACTGCCTGAGTTACATCAGTCGGT--TGGTCGGTGATTTAGGTAG [12618]
Mdo -----TGGTCTGTGATTTAGGTAG [11758]
Meu ----- [10332]
Oan ACTCGGCAACAAGAAACTGTCTGAGTTACATCAGTCGGT--TGGTCTGTGATTTAGGTAG [11224]
Aca ACTCGGCAACAAGAAACTGCCTTAATTACGTCAGTTAGT--TGGTCGGTGATTTAGGTAG [12620]
Pbi ACTCGGCAACAAGAAACTGCCTTAATTACGTCAGTTAGT--TGGTCGGTGATTTAGGTAG [12987]
Cpi GCTCGGCAACAAGAAACTGCCTTAATTACGTCAGTTAGT--TGTCTGTAGTTTAGGTAG [13596]
Cmy GCTCGGCAACAAGAAACTGCCTTAATTACGTCAGTTAGT--TGTCTGTGGTTTAGGTAG [13344]
Psi GCTCGGCAACAAGAAACTGCCTTAATTACGTCAGTTAGT--TGGTCAGTGGTTTAGGTAG [12210]
Asp GCTCGGCAACAAGAAACTGCCTTAATTACGTCAGTTAGT--TGGTCAGTGGTTTAGGTAG [11616]
Ami GCTCGGCAACAAGAAACTGCCTTAATTACGTCAGTTAGT--TGCTGTGTGGTTTAGGTAG [12920]
Asi GCTCGGCAACAAGAAACTGCCTTAATTACGTCAGTTAGT--TGCTGTGTGGTTTAGGTAG [12268]
Tgu GCTCGGCAACAAGAAACTGCCTTAATTACGTCAGTTTCGT--TGCTCTGTGGTTTAGGTAG [9923]
Cli GCTCGGCAACAAGAAACTGCCTTAATTACGTCAGTTAGT--TGCTCTGTGGTTTAGGTAG [12404]
Gga GCTCGGCAACAAGAAACTGCCTTAATTACGTCAGTTAGT--TGCTCTGTGGTTTAGGTAG [11133]
Xtr ACGCGGCAACAAGAAACTGCCTTAATTACGTCAGTTTCGT--CGCTGTGTGGTTTAGGTAG [11842]
Lch ACTCGGCAACAAGAAACTGCCTTAATTACGTCAGTTTCGT--TGAAGTGTGATTTAGGTAG [13206]
Dre GCTCGACAACAAGAAACTGCCTTGATTACGTCAGTTTCGT--TGTCGAGTGGTTTAGGTAG [12092]

Hsa TTTCTGTGTTGGGAT-----CCACCTTTCTCTC--GACAGCACGACACTGCCTTCATT [12838]
Mmu TTTCTGTGTTGGGAT-----CCACCTTTCTCTC--GACAGCACGACACTGCCTTCATT [12671]
Mdo TTTCTGTGTTGGGGC----TCCACCTTTCTCTC--GACAGCACGATACTGCCTTCATT [11812]
Meu ----- [10332]
Oan TTTCTGTGTTGGGGCT----CCACCTTTCTCTC--GACAGCACGACACTGCCTTCATT [11278]
Aca TTTTCATGTTGTTGGGGCTATGGCTCTCTCTTTCTC--GACAGCACGAAACTGCCTTCATT [12678]
Pbi TTTCTCGTTGTTGAGGCT--GAACATTTCTCTCTC--TGCAGCACGAAACTGCCTTCATC [13043]
Cpi TTTTCATGTTGTTGGGGCT----CCACCTTTCTCTC--TGCAGCACGAAACTGCCTTAATT [13650]
Cmy TTTTCATGTTGTTGGGGCT----CCACCTTTCTCTC--TGCAGCACGAAACTGCCTTAATT [13398]
Psi TTTTCATGTTGTTGGGGCT----CCACCTTTCTCTC--TGCAGCACGAAACTGCCTTGATT [12264]
Asp TTTTCATGTTGTTGGGGCT----CCACCTTTCTCTC--TGCAGCACGAAACTGCCTTGATT [11670]
Ami TTTTCATGTTGTTGGGGCT----CCACCTTTCTCTC--TACAGCACGAAACTGCCTTAATT [12974]
Asi TTTTCATGTTGTTGGGGCT----CCACCTTTCTCTC--TACAGCACGAAACTGCCTTAATT [12322]
Tgu TTTTCATGTTGTTGGGGCT----CCACCTTTCTCTC--TACAGCACGAAACTGCCTTAATT [9977]
Cli TTTTCATGTTGTTGGGGCT----CCACCTTTCTCTC--TACAGCACGAAACTGCCTTAATT [12458]
Gga TTTTCATGTTGTTGGGGCT----CCACCTTTCTCTC--TACAGCACGAAACTGCCTTAATT [11187]
Xtr TTTTATGTTGTTGGGCAT----TCACCTTTCTCTC--TACAACAAGAAACTGCCTTAATT [11896]
Lch TTTTCATGTTGTTGGGGCT----CCAAATTTATCTC--TATAACAAGAAACTGCCTGAATT [13260]
Dre TTTTCATGTTGTTGGGAT-----TACATTCAAACTC--TGCAACGTGAAACTGTCTTAATT [12145]

Hsa ACTTCAGTTG--CCGGCCCCGCCAACCCAGTGTTCAGACTACCTGTTTCAGGAGGCTCTCA [12896]
Mmu ACTTCAGTTG--CCATCCCCGCCATCCCAGTGTTCAGACTACCTGTTTCAGGAGGCTGG-G [12728]
Mdo ACTTCAGTTG--CCAGCCCCACCAGCCCAGTGTTCAGACTACCTGTCCAGGAGATTGCAA [11870]
Meu -----CCAGCCCCACCAGCCCAGTGTTCAGACTACCTGTCCAGGAGATTGCAA [10380]
Oan ACTTCAGTTG----- [11288]
Aca ACTTCAGTTT--CCAGCCCCGCTTCCCAGTGTTCAGACTACCTGTTTCAGGAAGCTACAA [12736]
Pbi ACTTCAGTTT--CTGGCCCCACCTGCCAGTGTTCAGACTACCTGTTTCAGGAAACTACAA [13101]
Cpi ACTTCAGTTG--CCAGCCCAGCTGCCAGTGTTCAGACTACCTGTTTCAGGAGGCTATCA [13708]
Cmy ACTTCAGTTG--CCAGCCCAGCTGCCAGTGTTCAGACTACCTGTTTCAGGAGGCTATAA [13456]

Psi ACTTCAGTTA--CCAGCCCAGCCTGCCAGTGTTCAGACTACCTGTTTCAGGAGGCTATAA [12322]
Asp ACTTCAGTTG--CCAGCCCAGCCTGCCAGTGTTCAGACTACCTGTTTCAGGAGGCTATAA [11728]
Ami ACTTCAGTTG--CCAGCCCAGCCTGCCAGTGTTCAGACTACCTGTTTCAGGAGCATATGA [13032]
Asi ACTTCAGTTG--CCAGCCCAGCCTGCCAGTGTTCAGACTACCTGTTTCAGGAGCATATGA [12380]
Tgu ACTTCAGTTG----- [9987]
Cli ACTTCAGTTG--CCGGCCCCGGCCTGCCAGTGTTCAGACTACCTGTTTCAGGATGCTTCCC [12516]
Gga ACTTCAGTTG----- [11197]
Xtr ACATCAGTGG--GTGGTCCCCTTCCCCAGTGTTCAGACTACGTGTTTCGTTGGACAG--A [11952]
Lch ACTCCAGTTA--CTGACCCCGCCTGCCAGTGTTCAGACTACCTGTTTCAGGAAGCCA--A [13316]
Dre GCCCCAGTTT--CCCGTCCCAGCCTGCCAGTGTTCAGACTACCTGTTTCAGGAATTAGT-- [12201]

Hsa ATGTGTACAGTAGTCTGCACATTGGTTAGGCTGGGCTTGGG--CCTGCTCCGTCGCCCCA [12954]
Mmu ACATGTACAGTAGTCTGCACATTGGTTAGGCTGGGCTTGGG--CCTGCTCCGTCGCCCCA [12786]
Mdo AGGTGTACAGTAGTCTGCACATTGGTTAGGCTGGGCTTGGG--CCTGCTCCGTCGCCCCA [11928]
Meu ATGTGTACAGTAGTCTGCACATTGGTTAGGCTGGGCTTGGG--CCTGCTCCGTCGCCCCA [10438]
Oan -----CCTGCTCCGTCGCCCCA [11305]
Aca AGGTGTACAGTAGTCTGCACATTGGTTAGACTGGGCTTGGG--CCTGCTCCGTCGCCCCA [12794]
Pbi AGGTGTACAGTAGTCTGCACATTGGTTAGATTGGGTTTGGG--CCTGCTCCGTCGCCCCA [13159]
Cpi AGGTGTACAGTAGTCTGCACATTGGTTAGATTGGGTTTGGT--CCTGCTCCGTCGCCCCA [13766]
Cmy AGGTGTACAGTAGTCTGCACATTGGTTAGATTGGGTTTGGT--CCTGCTCCGTCGCCCCA [13514]
Psi AGGTGTACAGTAGTCTGCACATTGGTTAGATTGGGTTTGGC--CCTGCTCCGTCGCCCCA [12380]
Asp AGGTGTACAGTAGTCTGCACATTGGTTAGATTGGGTTTGGC--CCTGCTCCGTCGCCCCA [11786]
Ami AGTTGTACAGTAGTCTGCACATTGGTTAGATCGGGCTTGGC--CCTGCTCCGTCGCCCCA [13090]
Asi AGTTGTACAGTAGTCTGCACATTGGTTAGATCGGGCTTGGC--CCTGCTCCGTCGCCCCA [12438]
Tgu -----CCTGCTCCGTCGCCCCA [10004]
Cli GGTTGTACAGTAGTCTGCACATTGGTTAGATCGGATCCGGC--CCTGCTCCGTCGCCCCA [12574]
Gga -----CCTGCTCCGTCGCCCCA [11214]
Xtr ACCTGAACAGTAGTCTACACACTGGTTAAACTGGGCCATGC--CCTGCTCCGTCGCCCCA [12010]
Lch AGGTGGACAGTAGTCTGCACATTGGTTAGGCTGGGCAAGAG--CCTGCTCCGTCGCCCCA [13374]
Dre GTTTGTACAGTAGTCTGCACATTGGTTAGGCTGGATGGGGA--CCTGCTCCGTCATCCCA [12259]

Hsa GTGTTTCAGACTACCTGTTTCAGGACAATGCCGTTGTACAGTAGTCTGCACATTGGTTAGAC [13014]
Mmu GTGTTTCAGACTACCTGTTTCAGGACAATGCCGTTGTACAGTAGTCTGCACATTGGTTAGAC [12846]
Mdo GTGTTTCAGACTACCTGTTTCAGGACAATGCTGTTGTACAGTAGTCTGCACATTGGTTAGAC [11988]
Meu GTGTTTCAGACTACCTGTTTCAGGACAATGCTGTTGTACAGTAGTCTGCACATTGGTTAGAC [10498]
Oan GTGTTTCAGACTACCTGTTTCAGGACAATGCTGTTGTACAGTAGTCTGCACATTGGTTAGAC [11365]
Aca GTGTTTCAGACTACCTGTTTCAGGACAATGCTGTTGTACAGTAGTCTGCACATTGGTTAGAC [12854]
Pbi GTGTTTCAGACTACCTGTTTCAGGACAATGCTGTTGTACAGTAGTCTGCACATTGGTTAGAC [13219]
Cpi GTGTTTCAGACTACCTGTTTCAGGACAATGCTGTTGTACAGTAGTCTGCACATTGGTTAGAC [13826]
Cmy GTGTTTCAGACTACCTGTTTCAGGACAATGCTGTTGTACAGTAGTCTGCACATTGGTTAGAC [13574]
Psi GTGTTTCAGACTACCTGTTTCAGGACAATGCTGTTGTACAGTAGTCTGCACATTGGTTAGAC [12440]
Asp GTGTTTCAGACTACCTGTTTCAGGACAATGCTGTTGTACAGTAGTCTGCACATTGGTTAGAC [11846]
Ami GTGTTTCAGACTACCTGTTTCAGGACAATGCTGTTGTACAGTAGTCTGCACATTGGTTAGAC [13150]
Asi GTGTTTCAGACTACCTGTTTCAGGACAATGCTGTTGTACAGTAGTCTGCACATTGGTTAGAC [12498]
Tgu GTGTTTCAGACTACCTGTTTCAGGACAATGCTGTTGTACAGTAGTCTGCACATTGGTTAGAC [10064]
Cli GTGTTTCAGACTACCTGTTTCAGGACAATGCTGTTGTACAGTAGTCTGCACATTGGTTAGAC [12634]
Gga GTGTTTCAGACTACCTGTTTCAGGACAATGCTGTTGTACAGTAGTCTGCACATTGGTTAGAC [11274]
Xtr GTGTTTCAGACTACCTGTTTCAGGACAATGCTGTTGTACAGTAGTCTGCACATTGGTTAGAC [12070]
Lch GTGTTTCAGACTACCTGTTTCAGGACAATACTGTTGTACAGTAGTCTGCACATTGGTTAGAC [13434]
Dre GTGTTTCAGACTACCTGTTTCAGGATCATACTGGTGTACAGTAGTCTGCACATTGGTTAGAC [12319]

Hsa TGGGCAAGGG--TCCACTCCGTCACCCAGTGTTTAGACTATCTGTTTCAGGACTCCCAAA [13072]
Mmu TGGGCAAGGG--TCCACTCCGTCACCCAGTGTTTAGACTACCTGTTTCAGGACTCCCAAA [12904]
Mdo TGGGCAAGGG--TCCACTCCGTCACCCAGTGTTTAGACTATCTGTTTCAGGACTCCAATA [12046]
Meu TGGGCAAGGG----- [10508]
Oan TGGGCAAGGG----- [11375]
Aca TGGGCAAGGA--TCCACTCCGTCGCCAGTGTTCGGACTACCTGTTTCAGGACTACGAGA [12912]

Pbi TGGGCAAGGG--TCCACTCCGTCTTCCCAGTGTTCGGACTACCTGTTTCAGGACTACAAGA [13277]
Cpi TGGGCAAGGG--TCCACTCCGTCTGCCAGTGTTCAGACTACCTGTTTCAGGACTACGAGA [13884]
Cmy TGGGCAAGGG--TCCACTCCGTCTGCCAGTGTTCAGACTACCTGTTTCAGGACTACGAGA [13632]
Psi TGGGCAAGGG--TCCACTCCGTCTGCCAGTGTTCAGACTACCTGTTTCAGGACTACGAGA [12498]
Asp TGGGCAAGGG--TCCACTCCGTCTGCCAGTGTTCAGACTACCTGTTTCAGGACTACGATA [11904]
Ami TGGGCAAGGG--TCCACTCCGTCTGCCAGTGTTCAGACTACCTGTTTCAGGACTACGAGA [13208]
Asi TGGGCAAGGG--TCCACTCCGTCTGCCAGTGTTCAGACTACCTGTTTCAGGACTACGAGA [12556]
Tgu TGGGCAAGGG--TCCACTCCGTCTGCCAGTGTTCAGACTACCTGTTTCAGGACTACGAGA [10122]
Cli TGGGCAAGGG--TCCACTCCGTCTGCCAGTGTTCAGACTACCTGTTTCAGGACTACGAGA [12692]
Gga TGGGCAAGGG--TCCACTCCGTCTGCCAGTGTTCAGACTACCTGTTTCAGGACTACGAGA [11332]
Xtr TGGGCATGGG----- [12080]
Lch TGGGCATGGG--TCCACTCCGTCTGCCAGTGTTCAGACTACCTGTTTCAGGGGGAAAAGA [13492]
Dre TGTGCATGGA--TCCCCCTCGCCTGCCAGTGTTCAGACTACCTGTTTCATCATGCTGCAG [12377]

Hsa TTGTACAGTAGTCTGCACATTGGTTAGGCTGGGCTGGGT--CCCGCCGTTTCCTTTTTTCCT [13130]
Mmu TTGTACAGTAGTCTGCACATTGGTTAGGCTGGGCTGGGT--CTGGCTGTTTCCTTTTTTCCT [12962]
Mdo TTGTACAGTAGTCTGCACATTGGTTAGGCTGGGCTGGGC----- [12085]
Meu -----CTCGTGGTTTCCTTTTTTCCT [10527]
Oan ----- [11375]
Aca TTGTACAGTAGTCTGCACATTGGTTAGGCTGTGCTGGGA--CTCATTGTTTCCTTTTTTCCT [12970]
Pbi TTGTACAGTAGTCTGCACATTGGTTAGGCTGTGCTGGGA-----TCCT [13320]
Cpi TTGTACAGTAGTCTGCACATTGGTTAGGCTGTGCTGGGA--CTCGTTGTTTCCTTTTTTCCT [13942]
Cmy TTGTACAGTAGTCTGCACATTGGTTAGGCTGTGCTGGGA--CTCGTTGTTTCCTTTTTTCCT [13690]
Psi TTGTACAGTAGTCTGCACATTGGTTAGGCTGTGCTGGGA--CTCGTTGTTTCCTTTTTTCCT [12556]
Asp TTGTACAGTAGTCTGCACATTGGTTAGGCTGTGCTGGGA--CTCGTTGTTTCCTTTTTTCCT [11962]
Ami TTGTACAGTAGTCTGCACATTGGTTAGGCTGTGCTGGGA--CTCGTTGTTTCCTTTTTTCCT [13266]
Asi TTGTACAGTAGTCTGCACATTGGTTAGGCTGTGCTGGGA--CTCGTTGTTTCCTTTTTTCCT [12614]
Tgu TTGTACAGTAGTCTGCACATTGGTTAGGCTGTGCTGGGA--CTCGTTGTTTCCTTTTTTCCT [10180]
Cli TTGTACAGTAGTCTGCACATTGGTTAGGCTGTGCTGGGA--CTCGTTGTTTCCTTTTTTCCT [12750]
Gga TTGTACAGTAGTCTGCACATTGGTTAGGCTGTGCTGGGA--CTCGTTGTTTCCTTTTTTCCT [11390]
Xtr -----CTCGCTGTTTCCTTTTTTCCT [12099]
Lch TTGTACAGTAGTCTGCACATTGGTTAGGCTGTGCTGGGA--CTCGTTGTTTCCTTTTTTCCT [13550]
Dre CTGAACAGTAGTCCGCACATTGGTTAGGCTGGGCTGGGA--CTCGCTGTTTCCTTTTTTCCT [12435]

Hsa ATGCATATACTTCTTTGAGGATCTGGCCTAAAGAGGTATAGGGCATGGGAAAACGGGGCG [13190]
Mmu ATGCATATACTTCTTTGAGGATCTGGTCTAAAGAGGTATAGCGCATGGGAAGATGGAGCA [13022]
Mdo ----- [12085]
Meu ATGCATATACTTCTTTGAGAATAAAAATCTAAAGAGGCGTAGGGCATGGGAAAATGGGGCC [10587]
Oan ----- [11375]
Aca ATGCATATACTTCTTTGAGAATCTGATCTAAAGAGGCATACGGCATGGGAAAATGGGGCA [13030]
Pbi ATGCATATACTTCTTTGAGAATTTGAATCTAAAGAGGCATACGGCATGGGAAAATGGGGCG [13380]
Cpi ATGCATATACTTCTTTGAGAATTTGAACTAAAGAGGCATAGGGCATGGGAAAATGGGGCG [14002]
Cmy ATGCATATACTTCTTTGAGAATTTGAACTAAAGAGGCATAGGGCATGGGAAAATGGGGCG [13750]
Psi ATGCATATACTTCTTTGAGAATTTGAACTAAAGAGGCATAGGGCATGGGAAAATGGGGCG [12616]
Asp ATGCATATACTTCTTTGAGAATTTGAACTAAAGAGGCATAGGGCATGGGAAAATGGGGCG [12022]
Ami ATGCATATACTTCTTTGAGAATTTGGATCTAAAGAGGCATAGGGCATGGGAAAATGGGGCG [13326]
Asi ATGCATATACTTCTTTGAGAATTTGGATCTAAAGAGGCATAGGGCATGGGAAAATGGGGCG [12674]
Tgu ATGCATATACTTCTTTGAGAATTTGCTTCTAAAGAGGTATAGGGCATGGGAAAATGGGGCA [10240]
Cli ATGCATATACTTCTTTGAGAATTTGATCTAAAGAGGCATAGGGCATGGGAAAATGGGGCG [12810]
Gga ATGCATATACTTCTTTGAGAGTTTGGATCTAAAGAGGCATAGAGCATGGGAAAATGGGGCG [11450]
Xtr ATGCATATACTTCTTTGAAAAATGAATGTAAGGGGCATAGGGCATGGGAAAATGGGGCA [12159]
Lch ATGCATATACTTCTTTGAGAATCAGATATGAAGAGGCATAGGGCATGGGAAAATGGGGCG [13610]
Dre ATGCATATACTTCTTTGACATGCTGCTTTAAAGAGGCATAGGGCATGGGAAAATGGGGCG [12495]

Hsa GTCGGGTC--CGCGCGCTGGGTCCAGTGGTTCTTAAACAGTTCAACAGTTCTGTAGCGCAA [13248]
Mmu GTGAGATC--GGCGCGCCTGGTCCAGTGGTTCTTAAACAGTTCAACAGTTCTGTAGCACAA [13080]
Mdo -----AGCTGCCCTGGTCCAGTGGTTCTTAAACAGTTCAACAGTTCTGTGTAGAGA [12135]

Meu ACGGAGCT--AGCTTCTCTGGTGCAGTGGTTCTTAAACAGTTCAACAGTTCTATTAAAAAA [10645]
Oan -----AGTCTCCCTGGTGCAGTGGTTCTTAAACAGTTCAACAGTTCTCTGGCCTAA [11425]
Aca ATTGAGGT--AGCCTGCTGGGTGCAGTGGTTCTTAAACAGTTCAACAGTTCTCTATTATAA [13088]
Pbi ATTGAGGG--AGCCTGCTGGGTGCAGTGGTTCTTAAACAGTTCAACAGTTCTGTAGCATAA [13438]
Cpi ACTGAGGT--AGCCTCCTTGGTGCAGTGGTTCTTAAACAGTTCAACAGTTCTCTAGCATAA [14060]
Cmy ACTGAGGT--GGCCTCCTTGGTGCAGTGGTTCTTAAACAGTTCAACAGTTCTCTAGCATAA [13808]
Psi ACTGAGGT--AGCCTCCTTGGTGCAGTGGTTCTTAAACAGTTCAACAGTTCTCTAGCATAA [12674]
Asp ACTGAGGT--AGCCTCCTTGGTGCAGTGGTTCTTAAACAGTTCAACAGTTCTCTAGCATAA [12080]
Ami ACTGAGGT--CGCCTCGCGGGTGCAGTGGTTCTTAAACAGTTCAACAGTTCTTTAGGCTAA [13384]
Asi ACTGAGGT----- [12682]
Tgu ACTGAGGT--AGCCTCCTTGGTGCAGTGGTTCTTAAACAGTTCAACAGTTCTCTAGCATAA [10298]
Cli ACTGAGGT--AGCCTCCTTGGTGCAGTGGTTCTTAAACAGTTCAACAGTTCTCTAGCATAA [12868]
Gga ACTGAGGT--AGCCTCCTTGGTGCAGTGGTTCTTAAACAGTTCAACAGTTCTCTATCATAA [11508]
Xtr GCTGAGCC--TGTCTCCCTGGCCGAGTGGTTCTTAAACAGTTCAACAGTTCTCTATCGAAA [12217]
Lch ACTGAGGT--TGTCTTTTTGGTGCAGTGGTTCTAAATAGTTCAACAGTTCTCTACCAAAA [13668]
Dre GCAGAGGT--GGTCCCTCTGGTGCAGTGGTTCTTAAACAGTTCAACAGTTCTATCTCAAAA [12553]

Hsa TTGTGAAATGTTTAGGACCACTAGACCCGGCGGGCGCG--TGTGACTCGTGGACTTCCCT [13306]
Mmu TTGTGAAATGTTTAGGACCACTAGACCCGGCGGCACG--TGTGACTCGTGGACTTCCCT [13138]
Mdo TTGTGAAATGTTTAGGACCACTTGATCTGGGTAGGCAT--TGTGACTCGTGGACTTCCCT [12193]
Meu TTGTGAAATGTTTAGGACCACTCGATCAGGGCAGGCC--TGTGACTCGTGGACTTCCCT [10703]
Oan TTGTGAAATGTTTAGGACCACTTGACCCGGCGAGGCC--TGTGACCCGTGGGCTTCCCT [11483]
Aca TTGTGAAATGTTTAGGACCACTTGATCCGGCGGGCCCA--TGTGACCCGTGGACTTCCCT [13146]
Pbi TTGTGAAATGTTTAGGACCACTTGATCCGGACGGCTTG--TGTGACCTGTGGACTTCCCT [13496]
Cpi TTGTGAAATGTTTAGGACCACTTGACCAGGAAGGCCCG--TGTGACCCGTGGACTTCCCT [14118]
Cmy TTGTGAAATGTTTAGGACCACTTGACCCGGGAGGCCCG--TGTGACCCGTGGACTTCCCT [13866]
Psi TTGTGAAATGTTTAGGACCACTTGACCAGGGAGGCCCG--TGTGACCCGTGGACTTCCCT [12732]
Asp TTGTGAAATGTTTAGGACCACTTGACCAGGGAGGCCCG--TGTGACCCGTGGACTTCCCT [12138]
Ami TTGTGAAATGTTTAGGACCACTTGACCCGCGAGGCCCG--TGTGACCTGTGGACTTCCCT [13442]
Asi -----TGTGACCCGTGGACTTCCCT [12702]
Tgu TTGTGAAATGTTTAGGACCACTTGACCAGCGAGGCCCG--TGTGACCCGTGGACTTCCCT [10356]
Cli TTGTGAAATGTTTAGGACCACTTGACCAGCGAGGCCCG--TGTGACCCGTGGACTTCCCT [12926]
Gga TTGTGAAATGTTTAGGACCACTTGACCAGCGAGGCCCG--TGTGACCCGTGGACTTCCCT [11566]
Xtr TTGTGAAATGTTTAGGACCACTTGATCCGGGTGACTCT--TGTGACCTGTGGGCTTCCCT [12275]
Lch TTGTGAAATGTTTAGGACCACTTGATCAAGAAGGCCCT--TGTGGCCCGTGGGCTTCCCT [13726]
Dre TTGTGAAATGTTTAGGACCACTTGACCAGAGTGACACT--TGTGACCTGTGGACTTCCCT [12611]

Hsa TTGTCATCCTATGCCTGAGAATATATGAAGGAGGCTGGGAAGGCAAAGGGACGTTCAATT [13366]
Mmu TTGTCATCCTATGCCTGAGAATATATGAAGGAGGCTGGGAAGGCAAAGGGACGTTCAATT [13198]
Mdo TTGTCATCCTATGCCTGAGAATATATGAAGGGGGCTGGGAAGGCAAAGGGACGTTCAATC [12253]
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Psi TTGTCATCCTATGCCTGAGAATATATGAAGGGGGCTGGGAAGGCAAAGGGACGTTCAATT [12792]
Asp TTGTCATCCTATGCCTGAGAATATATGAAGGGGGCTGGGAAGGCAAAGGGACGTTCAATT [12198]
Ami TTGTCATCCTATGCCTGAGAATATATGAAGGGGGCTGGGAAGGCAAAGGGACGTTCAATT [13502]
Asi TTGTCATCCTATGCCTGAGAATATATGAAGGGGGCTGGGAAGGCAAAGGGACGTTCAATT [12762]
Tgu TTGTCATCCTATGCCTGAGAATATATGAAGGGGGCTGGGGAGGCAAAGGGACGTTCAACT [10416]
Cli TTGTCATCCTATGCCTGAGAATATATGAAGGGGGCTGGGAAGGCAAAGGGACGTTCAACT [12986]
Gga TTGTCATCCTATGCCTGAGAATATATGAAGGGGGCTGGGAAGGCAAAGGGACGTTCAACT [11626]
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Lch TTGTCATCCTATGCCTGAGAATAAATGAAGGGGGCTGGGAAGGCAAAGGGATGTTCAACT [13786]
Dre TTGTCATCCTATGCCTG-GAGTA-ATAGAGGGGGCTGGGAAGTCAAAGGGACGCTCAGGC [12669]

Hsa GTCATC--ATGTGACTTGTGGGCTTCCCTTTGTCATCCTTCGCCTAGGGCTCTGAGCAGG [13424]
Mmu GTCATC--CTGTGACCTGTGGGCTTCCCTTTGTCATCCTTTGCCTAGGCCTCTGAGTGAG [13256]
Mdo GTCATC--ATGTGACCTGTGGGCTTCCCTTTGTCATCCTATGCCTGGAAATCAGAGTGGG [12311]
Meu GTCATC--ATGTGACCTGTGGGCTTCCCTTTGTCATCCTATGCCTGGAAATCAGAGTGGG [10821]
Oan GTCATC--TTGTGACTGCTGAGCTTCCCTTTGTCATCCTATGCCTGGAAGTCAAAATGGG [11601]
Aca GTCATC--ACATGACCTGTGGGCTTCCCTTTGTCATCCTATGCCTGGAGATCGCAGAGAG [13264]
Pbi GTCATC--ACATGACCTGTGGGCTTCCCTTTGTCATCCTATGCCTGGAGCTCACAGTGAG [13614]
Cpi GTCATC--ATGTGACCTGTGGGCTTCCCTTTGTCATCCTATGCCTGGAGTTCATAGTGAG [14236]
Cmy GTCATC--ATGTGACCTGTGGGCTTCCCTTTGTCATCCTATGCCTGGAGATCATAGTGAG [13984]
Psi GTCATC--ATGTGAC-TGTGGGCTTCCCTTTGTCATCCTATGCCTGGAGATCATAGTGAG [12849]
Asp GTCATC----- [12204]
Ami GTCATC--ATGTGACCTGTGGGCTTCCCTTTGTCATCCTATGCCTGGAGATCATAGTGAG [13560]
Asi GTCATC--ATGTGACCTGTGGGCTTCCCTTTGTCATCCTATGCCTGGAGATCATAGTGAG [12820]
Tgu GTCATC--ATGTGACCTGTGGGCTTCCCTTTGTCATCCTATGCCTGGAGATCACAGTGAG [10474]
Cli GTCATC--ATGTGACCTGTGGGCTTCCCTTTGTCATCCTATGCCTGGAGATCACAGTGAG [13044]
Gga GTCATC--GTGTGACCTGTGGGCTTCCCTTTGTCATCCTATGCCTGGAGATCACAGTGAG [11684]
Xtr GTCATC--TTGTGACCCATGGGCTTCCCTTTGTCATCCTATGCCTGAGAATGCTGGAGAG [12393]
Lch GTCATC--ATGTGACCTGTGGGTTTCCCTTTGTCATCCTATGCCTGGAGTTAGTAGCAAG [13844]
Dre GTCATC--CGTGACCTCCTGGGTTTCCCTTTGTCATCCTATGCCTGCAGTTCCTGATGAG [12727]

Hsa GCAGGGACAGCAAAGGGGTGCTCAGTTGTCACT----- [13457]
Mmu GCAAGGACAGCAAAGGGGGCTCAGTGGTCACT----- [13289]
Mdo GCAGGGACAGCAAAGGGATGCTCAGCTGTCGTC----- [12344]
Meu GCAGGGACAGCAAAGGGAGGCTCAGCTGTCGTC----- [10854]
Oan GCAGGGACAGCAAAGGGATGATCAACCGTCACT----- [11634]
Aca GCAGGGACAGCAAAGGGGTGCTCAGCTGTTGTC----- [13297]
Pbi GCAGGGCCAGCAAAGGGTTGCTCAGCTGTTGTC--CTTGGCTCTGTAGCTTTCCCTTTGT [13672]
Cpi GCAGGGACAGCAAAGGGATGCTCAGTTGTGTCGTC--GTGCGCCCTGTGAGCTTCCCTTTGT [14294]
Cmy GCAGGGACAGCAAAGGGATGCTCAGCTGTCGTC--GTGCGCCCTGTGAGCTTCCCTTTGT [14042]
Psi GCAGGGACAGCAAAGGGTTGCTCAGCTGTCATC--ATGCGCCCTGTGGGCTTCCCTTTGT [12907]
Asp -----ATGCGCCCTGTGGGCTTCCCTTTGT [12229]
Ami GCAGGGACAACAAAGGGATGCTCAATTGTCACT--CTGCGCTCTGTGAGCTTCCCTTTGT [13618]
Asi GCAGGGACAACAAAGGGATGCTCAATTGTCACT--CTGCGCTCTGTGAGCTTCCCTTTGT [12878]
Tgu GCAGGGACAGCAAAGGGATGCTCAGCTGTCGTC--CTGCCCCCTGTGAGCTTCCCTTTGT [10532]
Cli GCAGGGACAGCAAAGGGATGCTCAGCTGTCGTC--CTGCCCCCTGTGAGCTTCCCTTTGT [13102]
Gga GCAGGGACAGCAAAGGGATGCTCAGCTGTCGTC--CTCGCTCCTGTGAGCTTCCCTTTGT [11742]
Xtr GCAGGGACAGCAAAGGGATGCTCAGATGTTACC----- [12426]
Lch GCAGGGACAGCAAAGGGATGCTCAGCTGTCATC--CAGTGAAATGGGGGCTTCCCTTTCT [13902]
Dre GCTGGGACAGCAAAGGGAGGTTTCAGATGTCGAC----- [12760]

Hsa ----- [13457]
Mmu ----- [13289]
Mdo ----- [12344]
Meu ----- [10854]
Oan ----- [11634]
Aca ----- [13297]
Pbi CATCCTATGCCTGAGAAATTCAGGGAGGCTGGGACGGTGAAGGGAAGCCACAGCGTTAT [13732]
Cpi CATCCTATGCCTGAGAGATGCCTGGAGGCTGGGACGGTGAAGGGAAGCCACGTGGCTGC [14354]
Cmy CATCCTATGCCTGAGAGATGCCTGGAGGCTGGGACGGTGAAGGGAAGCCACGTGGCTGC [14102]
Psi CATCCTATGCCTGAGAGATGCCTGGAGGCTGGGACGGTGAAGGGAAGCCACGGGGCTGC [12967]
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Ami CATCCTATGCCTGAGAGATGCCTGGAGGCTGGGACGGTGAAGGGAAGCCACGGGGCTGC [13678]
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Tgu CATCCTATGCCTGAGCGATGCCTGGAGGCTGGGACGGCCAAGGGAGGCCCACGGG-CTGC [10591]
Cli CATCCTATGCCTGAGCCATGGCCG-AGGCTGGGACGGTGAAGGGAGGCCCACGGG-CTGG [13160]
Gga CATCCTATGCCTGAGCGATGCCTGGAGGCTGGGACGGTGAAGGGAGGCCCACGGG-CTGC [11801]
Xtr ----- [12426]


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Lch CATCCTATGCCTGAGAATTCACCTGAAGGCTGGGAAGGTAAAGGGAGGCTCACATCTCACC [13962]
Dre ----- [12760]

Hsa ---TTCTCTTGTCTTCATTCCACCGGAGTCTGTCTCATACCCAA-CCAGATTTTCAGTGG [13513]
Mmu ---TCCTCTTGTCTTCATTCCACCGGAGTCTGTCTTATGCC-AA-CCAGATTTTCAGTGG [13344]
Mdo ---TTCTCTTGTCTTCATTCCACCGGAGTCTGTCTCATATCTAA-TCAGATTTTCAGTGG [12400]
Meu ---TTCTCTTGTCTTCATTCCACCGGAGTCTGTCTCATATGTAA-TCAGATTTTCAGTGG [10910]
Oan ---TTCTGTTGTCTTCATTCCACCGGAGTCTGTTTCGTACCTAA-TCAGATTTTCAGTGG [11690]
Aca ---TTCTATTGTCTTCATTCCACCGGAGTCTGTCTCATATCTAA-TCAGATTTTCAGTGG [13353]
Pbi A--TTCTGTTGTCTTCATTCCACCGGAGTCTGTCTGAATACCTAA-TCAGATTTTCAGTGG [13789]
Cpi C--TTCTGTTGTCTTCATTCCACCGGAGTCTGTCTCATAACTAA-TCAGATTTTCAGTGG [14411]
Cmy C--TTCTGTTGTCTTCATTCCACCGGAGTCTGTCTCATACCTAA-TCAGATTTTCAGTGG [14159]
Psi C--TTCTATTGTCTTCATTCCACCGGAGTCTGTCTCATACCTAA-TCAGATTTTCAGTGG [13024]
Asp C--TTCTATTGTCTTCATTCCACCGGAGTCTGTCTCATACCTAA-TCAGATTTTCAGTGG [12346]
Ami C--TTCTGTTGTCTTCATTCCACCGGAGTCTGTCTCATACCTAA-TCAGATTTTCAGTGG [13735]
Asi C--TTCTGTTGTCTTCATTCCACCGGAGTCTGTCTCATACCTAA-TCAGATTTTCAGTGG [12995]
Tgu C--TTCTGTTGTCTTCATTCCACCGGAGTCTGTCTC-TAGCTAA-CCAGATTTTCAGTGG [10647]
Cli C--TTCTGTTGTCTTCATTCCACCGGAGTCTGTCTCATACCTAAACCAGATTTTCAGTGG [13218]
Gga C--TTCTGTTGTCTTCATTCCACCGGAGTCTGTCTCGTACCTAA-CCAGATTTTCAGTGG [11858]
Xtr ---TCCTGCTGTCTTCATTCCACCGGAGTCTGTCTCATACATAA-TCAGATTTTCAGTGG [12482]
Lch C--TTCTGTTGTCTTCATTCCACCGGAGTCTGTTTCATAACCAA-TCAGATTTTCAGTGG [14019]
Dre ---GCATTCTATCCTTCATTCCACCGGAGTCTGTGTAGTTGTTCAATCAGATTTTCAGTGG [12817]

Hsa AGTGAAGTTCAGGAGGCATGGAG----- [13536]
Mmu AGTGAAGCTCAGGAGGCATGGAG----- [13367]
Mdo AGTGAAGCATAAGAGGCATGGAG----- [12423]
Meu GGTGAAGCATAAGAGGCGTGGAG----- [10933]
Oan AGTGAAGCACAAGAGGCATGGAG----- [11713]
Aca AGTGAAGCACAAGAGACATGGAG--CTTGGGTGCCCTTCATTCCACCGGAATCTGTACCC [13411]
Pbi CGTGAAGTACATGAGACATGGAG--CTTGGGTGCCCTTCATTCCACCGGAATCTGTAAAA [13847]
Cpi AGTGAAGCACAAGAGACATGGAG--TGCTGGTGCCCTTCATTCCACCGGAATCTGTAGAG [14469]
Cmy AGTGAAGCACAAGAGACATGGAG--TGCTGGTGCCCTTCATTCCACCGGAATCTGTAGAG [14217]
Psi CGTGAAGCACAAGAGACATGGAG--TGCTGGTGCCCTTCATTCCACCGGAATCTGTAGAG [13082]
Asp CGTGAAGCACAAGAGACATGGAG--TGCTGGTGCCCTTCATTCCACCGGAATCTGTAGAG [12404]
Ami AGTGAAGCACAAGAGACATGGAG--TTCTGGTGCCCTTCATTCCACCGGAATCTGTAGGG [13793]
Asi AGTGAAGCACAAGAGACATGGAG--TTCTGGTGCCCTTCATTCCACCGGAATCTGTAGGG [13053]
Tgu AGTGAAGCACAAGAGGCATGGAG--TCCTGGTGCCCTTCATTCCACCGGAATCTGTGCAT [10705]
Cli AGTGAAGTACGAGAGACATGGAG--TCTTGGCACCCCTTCATTCCACCGGAATCTGTCTAT [13276]
Gga AGTGAAGCACAAGAGACATGGAG--TCCTGATGCCCTTCATTCCACCGGAATCTGTACAGT [11916]
Xtr AGTGAAGCACAAGAGGCATGTAG--TGCTGCTGTCTTCATTCCACCGGATCCTGTGTAA [12540]
Lch AGTGAAGTACAGGAGACATGGAG--TCCTGCTGTCTTCATCCCTCCGGATCCC-TGTGC [14076]
Dre TGTGAAGTGTAGGAAACACGGAA----- [12840]

Hsa -----TTCTGTGACGGG [13549]
Mmu -----TTCTTTGACGGG [13380]
Mdo -----TTCTGTGACAGG [12436]
Meu ----- [10933]
Oan -----TTCTGTGACAGA [11726]
Aca GCAAAAACCGGATTTTC-TGTGAAATGAAGCCCACCAGGCATGGAA--TTCTCTAACAAG [13468]
Pbi GCAGACACCAGATTTTC-TGTGAAATGAAGCCCACCTGGCATGGAA--TTCTCTAATGGA [13904]
Cpi GCAGAAACCAGATTTTC-AGTGTAATGAAGCCCATCAGACATGGAA--TTCTCTAACAGG [14526]
Cmy GCAGAAACCAGATTTTC-AGTGTAATGAAGCCCATCAGACATGGAA--TTCTCTAACAGG [14274]
Psi GCAGAAACCAGATTTTC-AGTGTAATGAAGCCCATCAGACATGGAA--GTCTCCAACGGG [13139]
Asp GCAGAAACCAGATTTTC-AGTGTAATGAAGCCCATCAGACATGGAA----- [12448]
Ami ATCAAAAACCAGATTTTC-AGTGAAATGAAGCCCCTCAGACGTGGAA--TTCTCCAACAGG [13850]
Asi ATCAAAAACCAGATTTTC-AGTGAAATGAAGCCCCTCAGACGTGGAA--TTCTCCAACAGG [13110]
Tgu GCAGAACCCGGATTTTC-AGTGAAATGAAGCCCCTCAGAAAGGCAG----- [10749]
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Gga	GCAGAAACCAGATTTTC-AGTGAAATGAAGCCCATCAGAGAGGCAG-----	[11960]
Xtr	ATATAATCCAGATTCCCAGTGGCATGAAGTGCATTAGCTGAGCCT--TCCTTTCAACAGG	[12598]
Lch	ACTGAATCCAGATTCCCAGTGGGATGAAGTG---TAGCTGGTTGG--CTCTTGTAACATA	[14131]
Dre	-----	[12840]
Hsa	CGAGCTTTTGGCCCGGGTTATACCTGATGCTCAC---GTATAAGACGAGCAAAAAGCTTG	[13606]
Mmu	TGAGCTTTTGGCCCGGGTTATACCTGACACTCAC---GTATAAGACGAGCAAAAAGCTTG	[13437]
Mdo	TGAGCTTTTGGTCCGGGTTATACCTGATGCATGT---GTATAAGACGAGCAAAAAGCTCG	[12493]
Meu	-----	[10933]
Oan	CAAGCTTTTGGCCAGATTATACCTGCATTTCCC---GTATAAGACGAGCAAAAAGCTTG	[11783]
Aca	GAAGCTTTTGGCTCGGGTTATATTTTGAAGTGGCAGTGTATAAGACGAGCAAAAAGCTTG	[13528]
Pbi	GAAGCTTTTGGCTCGGGTTATATTTTGAAGTGGCAGTGTATAAGACGAGCAAAAAGCTTG	[13964]
Cpi	GAAGCTTTTGGCTCGGGTTATATTTTTC-ACTCGCGCGTATAAGACGAGCAAAAAGCTTG	[14585]
Cmy	GAAGCTTTTGGCTTGGGTTATATTTTTC-ATTCTCAGCATATAAGACGAGCAAAAAGCTTG	[14333]
Psi	GAAGCTTTTGGCTCTGGTTATATTTTCC-ACTCGCAGCGTATAAGACGAGCGAAAAGCTTG	[13198]
Asp	-----	[12448]
Ami	GAAGCTTTTGGCTTGGGTTATATTTGTC-ACTCGCAGTGTATAAGACGAGCGAAAAGCTTC	[13909]
Asi	GAAGCTTTTGGCTTGGGTTATATTTGTC-ACTCGCAGTGTATAAGACGAGCGAAAAGCTTC	[13169]
Tgu	-----	[10749]
Cli	-----	[13320]
Gga	-----	[11960]
Xtr	CAAGCTTTTGGCTTGGATTATGTTTTTC-TGTTGTT---GTATAAGACGAGCATAAAGCTTG	[12655]
Lch	TAAGCTTTTGGCTTGGATTATGTTT-C-ATTTTAT-CATATAAGACGAGCAAAAATGCTTG	[14188]
Dre	-----	[12840]
Hsa	TTGGTCAGAGG--TTCTCCTCTCAGGGAAGCTTTTTGCTCGAATTATGTTTCTGATCCGA	[13664]
Mmu	TTGGTCAGAGG--TGCTCCTCTCAGGGAAGCTTTTTGCTCGCGTTATGTTTCTCATCCGA	[13495]
Mdo	TTGGTCAGAGG--TTCTCCTCTCAGGGAAGCTTTTTGCTCGGGTTATGTTTGGATCTGA	[12551]
Meu	-----TTCTCCTCTCAGGGAAGCTTTTTGCTCGCGTTATGTTTGGATTGGA	[10980]
Oan	TTGGTCAGAGG-----	[11794]
Aca	TTGGTTGGAGG-----	[13539]
Pbi	TTGGTTGGAGG-----	[13975]
Cpi	TTGGTTGGAGG-----	[14596]
Cmy	TTGGTTGGAGG-----	[14344]
Psi	TCGGTTGGCGG-----	[13209]
Asp	-----	[12448]
Ami	TTGGTTGGAAG-----	[13920]
Asi	TTGGTTGGAAG-----	[13180]
Tgu	-----	[10749]
Cli	-----	[13320]
Gga	-----	[11960]
Xtr	TTTGTTAGAAG-----	[12666]
Lch	TTTCGCTACAAG--TTCTCCTCACAGGGAGGCTTTTTGTTTCGCGTTATGTTTCGGTGTGA-A	[14245]
Dre	-----CTCTACTGACAGAGAAGCTTTTTGTTTGTGTTATGTTTATTTTCA-A	[12886]
Hsa	ATATAAGACGAACAAAAGGTTTGTCTGAGGGCAGAG--CAGGCGCAGGGCAGCCCCTGCC	[13722]
Mmu	ATATAAGACGAACAAAAGGTTTGTCTGAGGGCTGAG--CAGGCTCAGGACAGCCACTGCC	[13553]
Mdo	ATATAAGACGAACAAAAGGTTTGTCTGTGTGCAGAG--CGGCCGACAGGGGAGCCACTGAC	[12609]
Meu	ATATAAGACGAACAAAAGGTTTGTCTGTGTGCAGAG--CGGCAGCAGGGGAGCCACTGAC	[11038]
Oan	-----	[11794]
Aca	-----CAGGAGCAGATGAGCCACTGAC	[13561]
Pbi	-----CAGAAGCAGGTGAGCCACTGAC	[13997]
Cpi	-----CAGAAGCTGGTGGAGCCACTGAC	[14618]
Cmy	-----CAGAAGCTGGTGGAGCCACTGAC	[14366]
Psi	-----CAGAAGCAGGTGAGCCACTGAC	[13231]
Asp	-----CAGAAGCAGGTGAGCCACTGAC	[12470]

Ami	-----CAGAAGCAGGTGAGCCACTGAC	[13942]
Asi	-----CAGAAGCAGGTGAGCCACTGAC	[13202]
Tgu	-----	[10749]
Cli	-----CAGGAGCAGGTGAGCCACTGAC	[13342]
Gga	-----CAGGAGCAGGTGAGCCACTGAC	[11982]
Xtr	-----CAGATGCAGGTGAGCCACTGAC	[12688]
Lch	ATATAAGACGAACAAAAAGTTTGTCTGTTTGTAGAT--CAGAAGCAGGTGAGCCACTGAC	[14303]
Dre	ATGTAAGACGAACAAAAAGTTTTTCTGTTAGTAGGT--TGAAAGCAGGTAAGCCACTGAC	[12944]
Hsa	CACCGCACACTGCGCTGCC---CAGACCCACTGTGCGTGTGACAGCGGCTGATCTGTGC	[13779]
Mmu	CACCGCACACTGCGTTGCTC---CGGACCCACTGTGCGTGTGACAGCGGCTGATCTGTCC	[13610]
Mdo	TAACGCACATTGCGCTC-----AGGACCCACTGTGCGTGTGACAGCGGCTA-CCGTGCA	[12662]
Meu	CAACGCACATTGCGCTG-----AGGACCCACTGTGCGTGTGACAGCGGCTA-CCGTGCA	[11091]
Oan	-----	[11794]
Aca	TAACGCACATTGTGCTTCTC---GTGTCCCCACTGTGCGTGTGACAGCGGCTAACCTGCTT	[13619]
Pbi	TAACGCACATTGTGCTGCTA---ATGTCCCCACTGTGCGTGTGACAGCGGCTAACCTGCTT	[14055]
Cpi	TAACGCACATTGTGCTGTTA---AAGAATCCACTGTGCGTGTGACAGCGGCTAACCTGCTT	[14676]
Cmy	TAACGCACATTGTGCTGTTA---AAGACTCCACTGTGCGTGTGACAGCGGCTAACCTGCTT	[14424]
Psi	TAACGCACATTGTGCTGTTA---AAGACTCCACTGTGCGTGTGACAGCGGCTAACCTGCTT	[13289]
Asp	TAACGCACATTGTGCTGTTA---AAGACTCCACTGTGCGTGTGACAGCGGCTAACCTGCTT	[12528]
Ami	TAACGCACATTGTGCTGTTA---GCGATTCCACTGTGCGTGTGACAGCGGCTAACCTGNTT	[14000]
Asi	TAACGCACATTGTGCTGTTA---GCGATTCCACTGTGCGTGTGACAGCGGCTAACCTGCTT	[13260]
Tgu	-----	[10749]
Cli	TAACGCACATTGTGCTCTCG---GCGACTCCACTGTGCGTGTGACAGCGGCTAACCTGCTC	[13400]
Gga	TAACGCACATTGTGCTCTCG---GCGACTCCACTGTGCGTGTGACAGCGGCTAACCTGCTC	[12040]
Xtr	TAACGCACATTGCGCTGCTCCTAAAATGCCACTGTGCGTGTGACAGCGGCTAACCTGCTC	[12748]
Lch	TAACGCACATTGTGCTGTCA---GTGATTCCACTGTGCGTGTGACAGCGGCTAACCTGCTT	[14361]
Dre	TAACGCACATTGCGCCTATT-CTCCACTCCACTGTGCGTGTGACAGCGGCTAACCTGCTT	[13003]
Hsa	CTGGGCA--AGAGTTGTCATGTGTCTGCCTGTCTACACTTGCTGTGCAGAACATCCGCTC	[13837]
Mmu	CTGGGCA--AGAGTTGTCATGTGTCTGCCTGTCTACACTTGCTGTGCAGAACATCCGCTC	[13668]
Mdo	ACCGGCC--GGAGTTGTCATGTGTCTGCCTGTCTACACTTGCTGTGCAGAACATCCTCTC	[12720]
Meu	GCCGGC-----	[11098]
Oan	-----GGAGTTGTCACGTGTCTGCCTGTCTACACTTGCTGTGCAGAACATCCTCTC	[11845]
Aca	TTTCGGAC--AGAGTTGTCATGTGTCTGCCTGTCTACACTTGCTGTGCAGAACATCCTCTC	[13677]
Pbi	CTAGGAC--AGAGTTGTCATGTGTCTGCCTGTCTACACTTGCTGTGCAGAACATCCTCTC	[14113]
Cpi	TTTCGGAC--GGAGTTGTCATGTGTCTGCCTGTCTACACTTGCTGTGCAGAACATCCTCTC	[14734]
Cmy	TTTCGGAC--GGAGTTGTCATGTGTCTGCCTGTCTACACTTGCTGTGCAGAACATCCTCTC	[14482]
Psi	TTTCGGAC--GGAGTTGTCATGTGTCTGCCTGTCTACACTTGCTGTGCAGAACATCCTCTC	[13347]
Asp	TTTCGGAC--GGAGTTGTCATGTGTCTGCCTGTCTACACTTGCTGTGCAGAACATCCTCTC	[12586]
Ami	TTTCGGAC--GGAGTTGTCATGTGTCTGCCTGTCTACACTTGCTGTGCAGAACATCCACTC	[14058]
Asi	TTTCGGAC--GGAGTTGTCATGTGTCTGCCTGTCTACACTTGCTGTGCAGAACATCCACTC	[13318]
Tgu	-----GGAGTTGTCATGTGTCTGCCTGTCTACACTTGCTGTGCAGAACATCCTCTC	[10800]
Cli	CTTCGGAC--GGAGTTGTCATGTGTCTGCCTGTCTACACTTGCTGTGCAGAACATCCTCTC	[13458]
Gga	CTTCGGAC--GGAGTTGTCATGTGTCTGCCTGTCTACACTTGCTGTGCAGAACATCCTCTC	[12098]
Xtr	CTAGGAA--GGAGTTGTCATGTGTCTGCCTGTCTACACTTGCTGTGCAGAACATCCTCTC	[12806]
Lch	TTAGGAC--GGAGTTGTCATGTGTCTGCCTGTCTACACTTGCTGTGCAGAACATCCTCTC	[14419]
Dre	TTGGATC--AGCGTTGTC---TGCTGCCTGTCTACACTTGCTGTGCAGAACTTCC-TGC	[13057]
Hsa	ACCTGTACAGCAGGCACAGACAGGCAGTCACATGACAACCC--GGCTGTGAGTTGGCTTTA	[13895]
Mmu	ACCTGTACAGCAGGCACAGACAGGCAGTCACATGACAACCC--GGCTATGAGTTGGTTTA	[13726]
Mdo	ACCTGTACAGCAGGCACAGACAGGCAGTCACATGACAACCC--GGCTGTGAATTTGGCTTTA	[12778]
Meu	-----GGCTGTGAATTTGGCTTTA	[11115]
Oan	ACCTGTACAGCAGGCACAGACAGGCAGTCACATGACAACCC--GGCTGTGAATCGGCTTTA	[11903]
Aca	ACCTGTACAGCAGGCACAGACAGGCAGTCACATGACAACCC--GGCTGTGAATTTGGTTTA	[13735]
Pbi	ACCTGTACAGCAGGCACAGACAGGCAGTCACATGACAATCC--GGCTGTGAATTTGGTTTA	[14171]
Cpi	ACCTGTACAGCAGGCACAGACAGGCAGTCACATGACAACCC--GGCTGTGAATTTGGCTTTA	[14792]

Cmy ACCTGTACAGCAGGCACAGACAGGCAGTCACATGACAACCC--GGCTGTGAATTGACTTGA [14540]
Psi ACCTGTACAGCAGGCACAGACAGGCAGTCACATGACAACCC--GGCTGTGAATTGGCTTGA [13405]
Asp ACCTGTACAGCAGGCACAGACAGGCAGTCACATGACAACCC--GGCTGTGAATTGGCTTGA [12644]
Ami ACCTGTACAGCAGGCACAGACAGGCAGTCACATGACAACCC--GGCTGTGAATTGGCATA [14116]
Asi ACCTGTACAGCAGGCACAGACAGGCAGTCACATGACAACCC--GGCTGTGAACTGGCATA [13376]
Tgu ACCTGTACAGCAGGCACAGACAGGCAGTCGCATGACAACCC--GGCTGTGAGTTGGCTTGA [10858]
Cli ACCTGTACAGCAGGCACAGACAGGCAGTCGCATGACAACCC--GGCTGTGAATTGGCTTGA [13516]
Gga ACCTGTACAGCAGGCACAGACAGGCAGTCACATGACAACCC--GGCTGTGAATTGGCTTGA [12156]
Xtr ACCTGTACAGCAGGCACAGACAGGCAGTCACATGACAACCC--GGCTGTGAATTGGCTTGA [12864]
Lch ACCTGTACAGCAGGCACAGACAGGCAGTCACATGACAACCC--GGCTGTGACTTGGCTTGA [14477]
Dre ACCTGTACAGCAGGCACAGACAGGCAGATGGCAGCCC--AGCTGATTTTTGGCATA [13115]

Hsa ATCTCAGCTGGCAACTGTGAGATGTTTCATACAATC-CCTCACAGTGGTCTCTGGGATTAT [13954]
Mmu ATCTCAGCTGGCAACTGTGAGATGTCCCTATCATT-CCTCACAGTGGTCTCTGGGATTAT [13785]
Mdo ATCTCAGCTGGCAACTGTGAGATGTTAATAAATTC-CCTCACAGTGGTCTCTGGGATTAT [12837]
Meu ATCTCAGCTGGCAACTGTGAGATATTAATAAATTC-CCTCACAGTGGTCTCTGGGATTAT [11174]
Oan ATCTCAGCTGGCAACTGTGAGATGCTAACCAATTC-TCCACAGTGGCATCTGGGATTAT [11962]
Aca ATCTCAGCTGGCAACTGTGAGCAGTTTCCAAATCC-TCTCACAGTGGTTTCTGGGATTAT [13794]
Pbi ATCTCAGCTGGCAACTGTGAGCAGTTAATAAATTC-TCTCACAGTGGTATCTGGGATTAT [14230]
Cpi ATCTCAGCTGGCAACTGTGAGCAATTAATACATTC-TCTCACAGTGGTATCTGGGATTAT [14851]
Cmy ATCTCAGCTGGCAACTGTGAGCAATTTATAAATTC-TCTCACAGTGGTATCTGGGATTAT [14599]
Psi ATCTCAGCTGGCAACTGTGAGCAATTAATAAATTC-TCTCACAGTGGTATCTGGGATTAT [13464]
Asp ATCTCAGCTGGCAACTGTGAGCAATTAATAAATTC-TCTCACAGTGGTATCTGGGATTAT [12703]
Ami ATCTCAGCTGGCAACTGTGAGCAGTTTCATAAATTC-TCTCACAGTTGTATCTGGGATTAT [14175]
Asi ATCTCAGCTGGCAACTGTGAGCAGTTTCATAAATTC-TCTCACAGTTGTATCTGGGATTAT [13435]
Tgu ATCTCAGCTGGCAACTGTGAGCAGTTAATAA-CCTCACAGTGGTATCTGGGATTAT [10916]
Cli ATCTCAGCTGGCAACTGTGAGCCGCTAATAA-CCTCACAGTGGTATCTGGGATTAT [13574]
Gga ATCTCAGCTGGCAACTGTGAGCAGTTAATAA--T--TCTCACAGTGGTATCTGGGATTAT [12212]
Xtr ATCTCAGCTGGCAACTGTGAGCAGTTAATAAATTA-TCTCACAGTGGTCTCTGGGATTAT [12923]
Lch ATCTCAGCTGGCAACTGTGAGCAGCTAATAACTTC-TCCACAGTGGTCTCTGGGATTAT [14536]
Dre ATCTCAGCTGGCAACTGTGAGTAGTGTTCATCCCTCTCACAGGCGCTGCTGGGGTTCT [13175]

Hsa GCTAAACAGAGCAA--TGGCAGACTGGAAAATCTCTGCAGGCAAATGTGATGTCACTGAG [14012]
Mmu GCTAAACAGAGCAA--TGGCAGACTGGAAAATCTCTGCAGGCAAATGTGATGTCACTGAA [13843]
Mdo GCTAAACAGAGCAA--TTGCAGACTGGAAAATCTCTGCAGGCAAATGTGGTGTGCTATA [12895]
Meu GCTAAACAGAGCAA--TTACAGACTGGAAAATCTCTGCAGGCATATGTGGTGTGCTACA [11232]
Oan GCTAAACACAGCAA--TCGCAGACTGGAAAATCTCTGCTGGCAAATGTGGTGTGCTACA [12020]
Aca GCTAAACACAGCAA--TCACAGACTGAGAAAATCTCTGCAGGCAAATGTGATGTCTTGACC [13852]
Pbi GCTAAACGACAGCAA--TCACAGACTGAGAAAATCTCTGCAGGCAAATGTGATGTGATGAT [14288]
Cpi GCTAAACACAGCAA--TCATAGACTGGAAAATCTCTGCAGGCAAATGTGATGTATTTATA [14909]
Cmy GCTAAACACAGCAA--TCATAGACTGGAAAATCTCTGCAGGCAAATGTGATGTACTAATA [14657]
Psi GCTAAACACAGCAA--TCATAGACTGGAAAATCTCTGCAGGCAAATGTGATGTATTTATA [13522]
Asp GCTAAACACAGCAA--TCATAGACTGGAAAATCTCTGCAGGCAAATGTGATGTATTTATA [12761]
Ami GCTAAACATAGCAA--TCGCAGACTGGAAAATCTCTACAGGCAAATGTGATGTCTTTATA [14233]
Asi GCTAAACATAGCAA--TCGCAGACTGGAAAATCTCTACAGGCAAATGTGATGTCTTTATA [13493]
Tgu GCTAAACACAGCAA--TCACAGACTGGAAAATCTCTGCAGGCAAAGTGTGATGTCTTTATA [10974]
Cli GCTAAACACAGCGA--TCGCAGACTGGAAAATCTCTGCAGGCAAATGTGATGTCTTTATA [13632]
Gga GCTAAACACAGCAA--TCACAGACTGGAAAATCTCTGCAGGCAAATGTGATGTCTTTATA [12270]
Xtr ACTAAACACAGCAA----- [12937]
Lch GCTAAACACTGCAA--CAGCAGACTGTCTAATCTCTGCAGGCAAATGTGACGTTCTTTT [14594]
Dre GTCACACACAGCAC--AAACTGACTGGGTAATCTCTGCAGGCAAATGTGATGTGATTA-- [13231]

Hsa --GAAATCACACACTTACCCGTAGAGATTTCTACAGTCTGACATC--TTGATGTGCGAGAT [14068]
Mmu --GAAACCACACACTTACCTGTAGAGATTTCTTACAGTCTGACAAC--TTGATGTTGCGAGAT [13899]
Mdo --GTTATCACACAATTACCCGTAGAGATTTCTGCAATCTGACATC--TTGATGTGCGTAGAT [12951]
Meu --GTTATCACACAATTACCTGTAGAGATTTCTGCAATCTGACATC--TTGATGTGCGTAGAT [11288]
Oan --GCAATCGCACAATTACCTGTAGAGATTTCTGCAATCTGGCTTT----- [12062]

Aca -AGCAATCTCACAGTTACCAGCAGAGGTTCTGCAATCTGGACTG--TTGATGTCGCAGAT [13909]
Pbi --GCAATCTCACAGTTACCAGTAGAGGTTCTGCAATCTGGAGGG--TTGATGTCGCAGAT [14344]
Cpi --GCAATCTCACAAATTACCTGTAGAGTTTCTGCAATCTGATCTC--TTGATGTCGCAGAT [14965]
Cmy --GCAATCTCACAAATTACCTGTAGAGTTTCTGCAATCTGGCATC--TTGATGTTGCAGAT [14713]
Psi --GCAATCTCACAAATTACCTGTAGAGTTTCTGCAATCTGGCATC--TTGATGTCGCAGAT [13578]
Asp --GCAATCTCACAAATTACCTGTAGAGTTTCTGCAATCTGGCATC--TTGATGTCGCAGAT [12817]
Ami --GTAATCTCACAAATTACCTATAGAGATTCTTCAATCTGGCATC--TTGATGTCGCAGAT [14289]
Asi --GTAATCTCACAAATTACCTATAGAGATTCTTCAATCTGGCATC--TTGATGTCGCAGAT [13549]
Tgu --GCAATCTCACAAATTACCTGTAGAGATTCTACAATCTGGCATC--TTGATGTCGCAGAT [11030]
Cli --GCAATCTCACAAATTACCTGTAGAGATTCTACAATCTGGCACC--TTGATGTCGCAGAT [13688]
Gga --GCAATCTCACAAATTACCTGTAGAGATTCTACAATCTGGCATC--TTGATGTCGCAGAT [12326]
Xtr -----TTGATGTTGTAGAT [12951]
Lch CAATAATCTCCCAGTCACTGTAGAGGTTCTGTAGTCTGTCTTC--GTGATGTCGCAGAT [14652]
Dre ---CAGTCTCACATTGACCTGAAGAGGTTGAGCAGTCTGTTTAC--CTGATGTTGGTGAT [13286]

Hsa ACTGCATCAGGAAGTATTGGATAAGAATCAGTCACCATCAGTTCCTAATGCATTGCCTTT [14128]
Mmu ACTGCATCAGGAAGTACTGGATAAGACTTAATCCCCATCAGTTCCTAATGCATTGCCTTT [13959]
Mdo ACTGCATCAGGAAGTATTGGATAAATAATTCAGGCACCATCAGTTCCTAATGCATTGCCTTT [13011]
Meu ACTGCATCAGGAAGTATTGGATAAATAATTCAGGCACCATCAGTTCCTAATGCATTGCCTTT [11348]
Oan ----- [12062]
Aca ACTGCATCAGGAAGTATTGGGGAATAATCATGTACCATCAGTTCCTAATGCATTGCCTTT [13969]
Pbi ACTGCATCAGGAAGTATTGGATAAATAATCAGGCACCATCAGTTCCTAATGCATTGCCTTT [14404]
Cpi ACTGCATCAGGAAGTATTGGATAAATAATCAGCCACCATCAGTTCCTAATGCATTGCCTTT [15025]
Cmy ACTGCATCAGGAAGTATTGGATAAATAATCAGCCACCATCAGTTCCTAATGCATTGCCTTT [14773]
Psi ACTGCATCAGGAAGTATTGGATAAATAATCAGCCACCATCAGTTCCTAATGCATTGCCTTT [13638]
Asp ACTGCATCAGGAAGTATTGGATAAATAATCAGCCACCATCAGTTCCTAATGCATTGCCTTT [12877]
Ami ACTGCATCAGGAAGTATTGGATAAATAATCAGTCACCATCAGTTCCTAATGCATTGCCTTT [14349]
Asi ACTGCATCAGGAAGTATTGGATAAATAATCAGTCACCATCAGTTCCTAATGCATTGCCTTT [13609]
Tgu ACTGCATCAGGAAGTATTGGATAAATAATCACTCACCATCAGTTCCTAATGCATTGCCTTT [11090]
Cli ACTGCATCAGGAAGTATTGGATAAATAATCAGTCACCATCAGTTCCTAATGCATTGCCTTT [13748]
Gga ACTGCATCAGGAAGTATTGGATAAATAATCAGTCACCATCAGTTCCTAATGCATTGCCTTT [12386]
Xtr ACTGCATCAGGAAGTATTGGATCCCAGGGAGCAGCCATCAGTTCCTAATGCATTGCCTTT [13011]
Lch ACTGCATCAGGAAGTATTGGATAACAACCTAACTACCATCAGTTCCTAATGCATTGCCTTT [14712]
Dre ACTGCATCAGGAAGTATTGGATGATATTTCAGGAGCCATCAGTTCCTGATGCATTCCCAT [13346]

Hsa CAGCATCTA--GCGAGATTTTCTGTTGTGCTTGATCTAACCATGTGGTTGCGAGGTATGA [14186]
Mmu CAGCATCTA--GCGAGATTTTCTGTTGTGCTTGATCTAACCATGTGCTTGCAGAGGTATGA [14017]
Mdo CAGCATCTA--GCGAGATTTTCTGTTGTGCTTGATCTAACCATGTGGTTGTGAGGTATGA [13069]
Meu CAGCATCTA--GCGAGATTTTCTGTTGTGCTTGATCTAACCATGTGGTTGTGAGGTATGA [11406]
Oan -----GCGAGATTTTCTGTTGTGCTTGATCTAACCATGTGGTTGCAAGGTATGA [12111]
Aca CAGCATCTA--GCGAGATTTTCTGTTGTGCTTGATCTAACCATGTGGTTGCGAGGTATGA [14027]
Pbi CAGCATCTA--GCGAGATTTTCTGTTGTGCTTGATCTAACCATGTGGTTGTGAGGTATGC [14462]
Cpi CAGCATCTA--GCGAGATTTTCTGTTGTGCTTGATCTAACCATGTGGTTGCAAGGTATGA [15083]
Cmy CAGCATCTA--GCGAGATTTTCTGTTGTGCTTGATCTAACCATGTGGTTGCAAGGTATGA [14831]
Psi CAGCATCTA--GCGAGATTTTCTGTTGTGCTTGATCTAACCATGTGGTTGCAAGGTATGA [13696]
Asp CAGCATCTA--GCGAGATTTTCTGTTGTGCTTGATCTAACCATGTGGTTGCAAGGTATGA [12935]
Ami CAGCATCTA--GCGAGATTTTCTGTTGTGCTTGATCTAACCATGTGGTTGTGAGGTATGA [14407]
Asi CAGCATCTA--GCGAGATTTTCTGTTGTGCTTGATCTAACCATGTGGTTGTGAGGTATGA [13667]
Tgu CAGCATCTA--GCGAGATTTTCTGTTGTGCTTGATCTAACCATGTGGTTGTGAGGTATGA [11148]
Cli CAGCATCTA--GCGAGATTTTCTGTTGTGCTTGATCTAACCATGTGGTTGTGAGGTATGA [13806]
Gga CAGCATCTA--GCGAGATTTTCTGTTGTGCTTGATCTAACCATGTGGTTGTGAGGTATGA [12444]
Xtr CGGCATCTA--GCGAGATTTTCTGTTGTGCTTGATCTAACCATGTGGTTGTGAGGTATGA [13069]
Lch CAGCATCTA--GCGGGATTTTCTTTGTGCTTGATCTAACCATGTGGTTGCGAGGTATGA [14770]
Dre CAGCATCGA--GCGGGGTTTCTTTGTGCTTGATCTAACCATGTGGTTGCAGACTCAGA [13404]

Hsa GTA AAAACATGGTTCCGTC AAGCACCATGGAACGTCACGCAGCT--GCGGGGCTTTCCCTTT [14244]
Mmu GAAAAACATGGTTCCGTC AAGCACCATGGAACGTCACGCAGCT--GCGGGGCTTTCCCTTT [14075]

Mdo GTAAAACATGGTTCTGTCAAGCACCATGGAACGTCACGCAGCT--ACGGGGCTTTTCCTTT [13127]
Meu GTAAAACATGGTTCTGTCAAGCACCATGGAACGTCACGCAGCT----- [11449]
Oan GTAAAACATGGTTCTGTCAAGCACCATGGAAGTCACGCAGCT--ATGGGGCTTTTCCTTT [12169]
Aca GTAAAACATGGTTCTGTCAAGCACCATGGAACGTCACGCAGCT--ATGGGATTTTCCTTT [14085]
Pbi GTAAAACATGGTTCTGTCAAGCACCATGGAACGTCACGCAGCT--ATGGGATTTTCCTTT [14520]
Cpi GTAAAACATGGTTCTGTCAAGCACCATGGAACGTCACGCAGCT--ATGGGGTTTTTCCTTT [15141]
Cmy GTAAAACATGGTTCTGTCAAGCACCATGGAACGTCACGCAGCT--ATGGGGTTTTTCCTTT [14889]
Psi GTAAAACATGGTTCTGTCAAGCACCATGGAACGTCACGCAGCT--ATGAGGTTTTTCCTTT [13754]
Asp GTAAAACATGGTTCTGTCAAGCACCATGGAACGTCACGCAGCT--ATGAGGTTTTTCCTTT [12993]
Ami GTAAAACATGGTTCTGTCAAGCACCATGGAACGTCACGCAGCT--ATGGGGTTTTTCCTTT [14465]
Asi GTAAAACATGGTTCTGTCAAGCACCATGGAACGTCACGCAGCT--ATGGGGTTTTTCCTTT [13725]
Tgu GTAAAACATGGTTCTGTCAAGCACCATGGAACGTCACGCAGCT--ATGGGGTTTTTCCTTT [11206]
Cli GTAAAACATGGTTCTGTCAAGCACCATGGAACGTCACGCAGCT--GTGGGGTTTTTCCTTT [13864]
Gga GTAAAACATGGTTCTGTCAAGCACCATGGAACGTCACGCAGCT--ATGGGGTTTTTCCTTT [12502]
Xtr GTAAAACATGGTTCTGTCAAGCACCATGGAACGTCACGCAGCT--ATGGGGTTTTTCCTTT [13127]
Lch GTAAAACATGGTTCTGTCAAGCACCATGGAACGTCACGCAGCT--CTGGGGTTTTTCCTTT [14828]
Dre CTAATACATGGTTCTGTCAAGCACCATGGAAGGCTTGCAGCA--GCGGGTTTTTCCTTT [13462]

Hsa GTGCTTGATCTAACCATGTGGTGAACGATGGAACCGGAACATGGTTCTGTCAAGCACCG [14304]
Mmu GTGCTTGATCTAACCATGTGGTGAACGATGGAACCGGAACATGGTTCTGTCAAGCACCG [14135]
Mdo GTGCTTGATCTAACCATGTGGTGAACGATAGAAACAGAACATGGTTCTGTCAAGCACCG [13187]
Meu ----- [11449]
Oan GTGCTTGATCTAACCATGTGGTGAACAATATAAACAGAACATGGTTCTGTCAAGCACCA [12229]
Aca GTGCTTGATCTAACCATGTGGTGAACAATACAAATTTGAACATGGTTCTGTCAAGCACCA [14145]
Pbi GTGCTTGATCTAACCATGTGGTGAACAATACAAATTTGAACATGGTTCTGTCAAGCACCA [14580]
Cpi GTGCTTGATCTAACCATGTGGTGAACAATACAAATTTGAACATGGTTCTGTCAAGCACCA [15201]
Cmy GTGCTTGATCTAACCATGTGGTGAACAATACAAATTTGAACATGGTTCTGTCAAGCACCA [14949]
Psi GTGCTTGATCTAACCATGTGGTGAACAATACAAATTTGAACATGGTTCTGTCAAGCACCA [13814]
Asp GTGCTTGATCTAACCATGTGGTGAACAATACAAATTTGAACATGGTTCTGTCAAGCACCA [13053]
Ami GTGCTTGATCTAACCATGTGGTGAACAATACAAATTTGAACATGGTTCTGTCAAGCACCA [14525]
Asi GTGCTTGATCTAACCATGTGGTGAACAATACAAATTTGAACATGGTTCTGTCAAGCACCA [13785]
Tgu GTGCTTGATCTAACCATGTGGTGAACAATACAAATTTGAACATGGTTCTGTCAAGCACCA [11266]
Cli GTGCTTGATCTAACCATGTGGTGAACAATACAAATTTGAACATGGTTCTGTCAAGCACCA [13924]
Gga GTGCTTGATCTAACCATGTGGTGAACAATACAAATTTGAACATGGTTCTGTCAAGCACCA [12562]
Xtr GTGCTTGATCTAACCATGTGGTGAACAATACATATTTGAACATGGTTCTGTCAAGCACCA [13187]
Lch GTGCTTGATCTAACCATGTGGTGAACAATACAAATTTGAACATGGTTCTGTCAAGCACCA [14888]
Dre GTGCTTGATCTAACCATGTGGTGCAGACTCAGACTAATACATGGTTCTGTCAAGCACCA [13522]

Hsa CGGAAAGCACCGTGCTC--CGGGCCGCGGCTCCTGATTGTCCAAACGCAATTTCTCGAGTC [14362]
Mmu CGGAAAGCATCGCTCTC--CGGGCCGCGGCTCCTGATTGTCCAAACGCAATTTCTCGAGTC [14193]
Mdo CGGAAAGCTCCGTGCTT--CGGGCCGCGGCTCCTGATTGTCCAAACGCAATTTCTCGTGGC [13245]
Meu -----CGGGCCGCTGGCTCCTTATTGTCCAAACGCAATTTCTCGTGGC [11490]
Oan CGGAAGGCTCCGTGTTT----- [12246]
Aca TGGAAGGCTCCATGCTT--TGACCGCTGGGTCTGATTGTCCAAACGCAATTTCTTGTCTC [14203]
Pbi TGGAAGGCTCCATGCTT--GGAGCCCTGGCCTGTGATTGTCCAAACGCAATTTCTTGTCTC [14638]
Cpi TGGAAGGCTGCATACTT--TGAACACCGGCTCCTGATTGTCCAAACGCAATTTCTTGTGTC [15259]
Cmy TGGAAGGCTGCATACTT--TGAATGCCGGCTCCTGATTGTCCAAACGCAATTTCTTGTGTC [15007]
Psi TGGAAGGCTGCATACTT----- [13831]
Asp TGGAAGGCTGCATACTT----- [13070]
Ami TGGAAGGCTGCATACTT--TGAGCGCCGGGTCTGATTGTCCAAACGCAATTTCTTGTGTC [14583]
Asi TGGAAGGCTGCATACTT--TGAGCGCTGGGTCTGATTGTCCAAACGCAATTTCTTGTGTC [13843]
Tgu TGGAAGGCTGCATACTC----- [11283]
Cli TGGAAGGCTGCATACTC----- [13941]
Gga TGGAAGGCTGCATACTC----- [12579]
Xtr TGGAAGGCCACATACTT----- [13204]
Lch TGGAAGGCCACGACTT--GGAATTTTAGCTCCTGATTGTCCAAACGCAATTTCTTGTGTC [14946]
Dre TGGAAGGCTTGCAGCA--TGACGGTCAGGTGCTGATTGTCCAAACGCAATTTCTTGTGCT [13580]

Hsa T---ATGGCTCCGGCC---GAGAGTTGAGTCTGGACGTCCCGAGCCGCCGC--AGGGGCT [14414]
Mmu T---CTGGCTCCGGCC---GAGAGTTGCGTCTGGACGTCCCGAGCCGCCGC--AGGGGCT [14245]
Mdo T-----CCGGCCCTCGAGAGTTGGGTCTGGACATCCCGAGCCGCCGC--AGGGGTT [13294]
Meu T-----CCGGCCCTCGAGAGTTGGGTCTGGACATCCCGAGCCGCCGC--AGGGGTT [11539]
Oan -----CGGGGCC [12253]
Aca C-----GCTCCA-CC---GAGAGTTGAGTCTGGACATCAGGAGCCGGAGG--GGAACCT [14251]
Pbi T-----CCA-CC---GAGAGTTGAGTCTGGACATCATGAGCCGGGGT--GGAACCT [14683]
Cpi T-----GCGCCC---AAGAATTGAGTGTGGACGTTCGTGAGCCGGGGT--GGAATCT [15305]
Cmy T-----GCGCCC---AAGAATTGAGTGTGGACGTTCGTGAGCCGGGGT--GGAATCT [15053]
Psi -----GGAATCT [13838]
Asp -----GGAATCT [13077]
Ami T-----GC-CCC---AAGAATTGAGTGTGGACGTTCGGGAGCCGCCGT--GGAGTCT [14628]
Asi T-----GC-CCC---AAGAATTGAGTGTGGACGTTCGGGAGCCGCCGT--GGAGTCT [13888]
Tgu -----GGAATCT [11290]
Cli -----GGAATCT [13948]
Gga -----GGAATCT [12586]
Xtr -----GGAGCTC [13211]
Lch TTCTCAGATCCAAACC---AAGAATTGTGTCTGGACATCCTGAGCTGGAAT--GAAATTT [15001]
Dre TGTGTGAAAC-----AGGAGTTGTGGATGGACATCACGCTCCTGTCT--AGGGTCC [13629]

Hsa TCGCCACTGATTGTCCAAACGCAATTCTTGTACGA--GTCTGCGGCCAACCGAGAATTGT [14472]
Mmu TCGCCACTGATTGTCCAAACGCAATTCTTGTACGA--GTCTGCGGCCAACCGAGAATTGT [14303]
Mdo CCGCCGCTGATTGTCCAAACGCAATTCTTGTGCGA--GTCTGCAGCCAACCGAGAATTGT [13352]
Meu CCGCCGCTGATTGTCCAAACGCAATTCTTGTGCGA--GTCTGCAGCCAACCGAGAATTGT [11597]
Oan CCGCCGCTGATTGTCCAAACGCAATTCTTGTGCGA--GTTTTCGGGCCAACCGAGAATTGT [12311]
Aca TTGCTCCTGATTGTCCAAACGCAATTCTTGTCCAG--AAAACATGCAAACCAAGAATTGT [14309]
Pbi TTGCTCCTGATTGTCCAAACGCAATTCTTGTGCGA--AAAAACATGCCAACCAAGAATTGT [14742]
Cpi CTGCTCCTGATTGTCCAAACGCAATTCTTGTGCAATGGAATCATACAAACCAAGAATTGT [15365]
Cmy CTGCTCCTGATTGTCCAAACGCAATTCTTGTGCAATGGAACATACAAACCAAGAATTGT [15113]
Psi CTGCTCCTGATTGTCCAAACGCAATTCTTGTGCAATGGAACATACAAACCAAGAATTGT [13898]
Asp CTGCTCCTGATTGTCCAAACGCAATTCTTGTGCAATGGAACATACAAACCAAGAATTGT [13137]
Ami CCGCTCCTGATTGTCCAAACGCAATTCTTGTGCGGTGGAACGTACAAACCAAGAATTGT [14688]
Asi CCGCTCCTGATTGTCCAAACGCAATTCTTGTGCGGTGGAACGTACAAACCAAGAATTGT [13948]
Tgu CCGCTCCTGATTGTCCAAACGCAATTCTTGTGCGATGGAGCCGTACGAACCAAGAATTGT [11350]
Cli CCGCTCCTGATTGTCCAAACGCAATTCTTGTGCGATGGAGCCGTACGAACCAAGAATTGT [14008]
Gga CTGCTCCTGATTGTCCAAACGCAATTCTTGTGCGCTGGAGCCGTACGAACCAAGAATTGT [12646]
Xtr TCGCCCTTGATTGTCCAAACGCAATTCTTGTTCGAATAGAAATATCAAGCCAAGAATTGT [13271]
Lch TAGCTTCTGATTGTCCAAACGCAATTCTTGTGAAATCAAAAATAAATA-TCAAGAATTGT [15060]
Dre CAGAGATTGATTGTCCAAACGCAATTCTTGTGAACATATAAATAAAT--CCAAGAATTGT [13687]

Hsa GGCTGGACATCTGTGGCTGAGCT--TCTGGGGCATGAACCTGGCATAACAATGTAGATTTTC [14530]
Mmu GGCTGGACATCTGTGGTTGAGCT--TCTGGGGCATGAACCTGGCATAACAATGTAGATTTTC [14361]
Mdo GGCTGGACATCTGTGGCTGAGCT--TTTGGGGCATGAACCTGGCATAACAATGTAGAATTC [13410]
Meu GGCTGGACATCTGTGGCTGAGCT--TTTGGGGCATGAACCTGGCATAACAATGTAGAATTC [11655]
Oan GACTGGACATCTGTGGCTGGGCT--TTTGGAGCATGAACCTGGCATAACAATGTAGAATTC [12369]
Aca GTCTGGACATCTGTGGCCAAGTC--CTTGGGGCCTGAACCTGGCATAACAATGTAGAATTC [14367]
Pbi GTCTGGACATCGGTGGCTAAGCC--CTTGGGGCCTTGACCTGGCATAACAATGTAGAATAC [14800]
Cpi GTCTGGACATCTGTGGCAGAGAT--TTTGGGGCATGAACCTGGCATAACAATGTAGAATTC [15423]
Cmy GTCTGGACATCTGTGGCAGAGAT--TTTGGGGCATGAACCTGGCATAACAATGTAGAATTC [15171]
Psi GTCTGGACATCTGTGGCAGAGAT--TTTGGGGCATGAACCTGGCATAACAATGTAGAATTC [13956]
Asp GTCTGGACATCTGTGGCAGAGAT--TTTGGGGCATGAACCTGGCATAACAATGTAGAATTC [13195]
Ami GTCTGGACATCTGTGGCGGGGAG--TTTGGGGCATGAACCTGGCATAACAATGTAGATTTTC [14746]
Asi GTCTGGACATCTGTGGCGGGGAG--TTTGGGGCATGAACCTGGCATAACAATGTAGATTTTC [14006]
Tgu GTCTGGACATCTGTAGCAGAGGT--TTTGGGGCATGAACCTGGCATAACAATGTAGATTTTC [11408]
Cli GTCTGGACATCTGTAGCAGAGAT--TTTGGGGCATGAACCTGGCATAACAATGTAGATTTTC [14066]
Gga GTCTGGACATCTGTAGCAGAGAT--TTTGGGGCATGAACCTGGCATAACAATGTAGATTTTC [12704]

Xtr GCCTGGACATCTGTGGCTGGTGA--ACTTTGGCGTGCACCTGGCATAACAATGTAGAAAAC [13329]
Lch GGCTGGACATCTGTAGCTGGAGT--TCTTGGGCATGAACCTGGCATAACAATGTAGAATCC [15118]
Dre GCCTGGACATCTGTTGCTGGAGA--GTTTTGTGCTGAACCTGGCATAACAATGTAGATTTTC [13745]

Hsa TGTGTTTCGTTAGGCAACAGCTACATTGTCTGCTGGGTTTTCAGGCTACCT--AGGTACCC- [14587]
Mmu TGTGTTTGTTTAGGCAACAGCTACATTGTCTGCTGGGTTTTCAGGCTACCT--GGGTGCCC- [14418]
Mdo TGTGTTTATTAAGTAACAGCTACATTGTCTGCTGGGTTTTCAGGCTACCT--TTTTGTCCC [13468]
Meu TGTGTTTATTAAGTAACAGCTACATTGTCTGCTGGGTTTTCAGGCTACCT---TTTTGTCCC [11712]
Oan TGTATTTGTTAAGCAACAGCTACATTGTCTGCTGGGTTTTCAAGCTACCT--AGTTGCCCC [12427]
Aca TG--TTTTGTTAAGCAACAGCTACATTGTCTGCTGGGTTTTCAGGCTGTCT--AGCTGTTCC [14423]
Pbi TGTGTTTGTTTAAGCAACAGCTACATTGTCTGCTGGGTTTTCAGGCTGTCT--AGCTGCTCA [14858]
Cpi TGTGTTTGTTTAAGCAACAGCTACATTGTCTGCTGGGTTTTCAAGCTGCCT--AGTTGCCTA [15481]
Cmy TGTGTTTGTTTAAGCAACAGCTACATTGTCTGCTGGGTTTTCAAGCTGCCT--AGTTGCCTA [15229]
Psi TGTGTTTGTTTAAGTAACAGCTACATTGTCTGCTGGGTTTTCAAGCTGCCT--AGTTGTCCCT [14014]
Asp TGTGTTTGTTTAAGCAACAGCTACATTGTCTGCTGGGTTTTCAAGCTGCCT--AGTTGTCCCT [13253]
Ami TGTATTTCTTAAGCAACAGCTACATTGTCTGCTGGGTTTTCAAGCTGCCT--AGTTGCCCA [14804]
Asi TGTATTTCTTAAGCAACAGCTACATTGTCTGCTGGGTTTTCAAGCTGCCT--AGTTGCCCA [14064]
Tgu TGTGTTTGTTTAAGCAACAGCTACATTGTCTGCTGGGTTTTCCAGCTGCCT--AGCTGCCCA [11466]
Cli TGTGTTTGTTTAAGCAACAGCTACATTGTCTGCTGGGTTTTCCAGCTGCCT--AGTTGCTCA [14124]
Gga TGTGTTTGTTTAAGCAACAGCTACATTGTCTGCTGGGTTTTCCAGCTGCCT--AGTTGCCCA [12762]
Xtr TGTGTTTGTCAAAGCAACAGCTACATTGTCTGCTGGGTTTTCATGCTGAAT--CCACTGGAG [13387]
Lch TGTGTTAGAATAGCAACAGCTACATTGTCTGCTGGGTTTTCAGGCTACCT--AGTTGTCCA [15176]
Dre TGTGTGGTACTATCTACAGCTACATTGTCTGCTGGGTTTTCAGGCCAGCA--GGGTGCTCA [13803]

Hsa TCAATGGCTCAGTAGCCAGTGTAGATCCTGTCTTTTCGTAATCAGCAGCTACATCTGGCTA [14647]
Mmu TCAGTGGCTCAGTAGCCAGTGTAGATCCTGTCTTTGGTAATCAGCAGCTACATCTGGCTA [14478]
Mdo TCATTCGCTCAGTAGTCAGTGTAGATACTGTCTCTTTCCATCAGCAGCTACATCTGGCTA [13528]
Meu TCATTCGCTCAGTAGTCAGTGTAGATCCTGTCTCTG--AATCAGCAGCTACATCTGGCTA [11770]
Oan TCAATCGCTCAGTAGTCAGTGTAGATCCTGTATTC--TAATCAGCAGCTACATCTGGCTA [12485]
Aca TCAGTCGCTCAGTAGTCAGTGTAGATTCTGTCTTCT--CAATCAGCAGCTACATCTGGCTA [14482]
Pbi TCAGTCGCTCAGTAGTCAGTGTAGATTCTGTCTTCT--CGGTGAGCAGCTACATCTGGCTA [14917]
Cpi TCAGTCGCTCAGTAGTCAGTGTAGATTCTGTCTTTA--CAATCAGCAGCTACATCTGGCTA [15540]
Cmy TCAGTCGCTCAGTAGTCAGTGTAGATTCTGTCTTTA--CAATCAGCAGCTACATCTGGCTA [15288]
Psi TCAGTCGCTCAGTAGTCAGTGTAGATTCTGTCTTTA--CAATCAGCAGCTACATCTGGCTA [14073]
Asp TCAGTCGCTCAGTAGTCAGTGTAGATTCTGTCTTTA--CAATCAGCAGCTACATCTGGCTA [13312]
Ami TCAATCGCTCAGTAGTCAGTGTAGATTCTGTCTTTA--CAATCAGCAGCTACATCTGGCTA [14863]
Asi TCAATCGCTCAGTAGTCAGTGTAGATTCTGTCTTTA--CAATCAGCAGCTACATCTGGCTA [14123]
Tgu TCAGTCGCTCAGTAGTCAGTGTAGATTCTGTCTTTA--CAATCAGCAGCTACATCTGGCTA [11525]
Cli TCAATCGCTCAGTAGTCAGTGTAGATCCTGTCTTTA--CAATCAGCAGCTACATCTGGCTA [14183]
Gga TCAATCGCTCAGTAGTCAGTGTAGATTCTGTCTTTA--CAATCAGCAGCTACATCTGGCTA [12821]
Xtr TTGTTTCGCTCAGTAATCAGTGTAGATCCTGTATAT--CTGTGAGCAGCTACATCTGGCTA [13445]
Lch TGAGTTGCTCAGTAGTCAGTGTAGATTCTGTGTCT--CAATCAGCAGCTACATCTGGCTA [15234]
Dre TGAGATGCTCAGTAGTCAGTGTAGATCCTGTGTCA--CAATCAGCAGCTACATCTGGCTA [13861]

Hsa CTGGGTCTCTGATGGCATCTT----- [14668]
Mmu CTGGGTCTCTGGTGGCATCAT----- [14499]
Mdo CTGGGTCTCTGATGGCATCTT----- [13549]
Meu CTGGGTCTCTGATGGCATTTT----- [11791]
Oan CTGGGTCTCTGAGGGTACCTT--GGATGCTAATTGGCTGCTCAGTAGTTGGTGTAGGATC [12543]
Aca CTGGGTCTCTGAGGACATCTT--GGATGCCAATGGGCTGCTCAGTAGTCGGTGTAGAATC [14540]
Pbi CTGGGTCTCTGAAGACGTCTT--TGATGTGAACAGGCTGCTCAGTAGTTGGTGTAGGATC [14975]
Cpi CTGGGTCTCTGATGACATCTT--TAGATGCAATTGGCTGCTCAGTAGTCGGTGTAGGATC [15598]
Cmy CTGGGTCTCTGATGACATCTT--TAGATGCAATTGGCTGCTCAGTAGTCGGTGTAGGATC [15346]
Psi CTGGGTCTCTGATGACATCTC--AAGATGCAATTGGCTGCTCAGTAGTCGGTGTAGGATC [14131]
Asp CTGGGTCTCTGATGACATCTC--AAGATGCAATTGGCTGCTCAGTAGTCGGTGTAGGATC [13370]
Ami CTGGGTCTCTGATGACATCTT--TGGATGTAATTGGGTGCTCAGTAGTCGGTGTAGAATC [14921]
Asi CTGGGTCTCTGATGACATCTT--TGGATGTAATTGGCTGCTCAGTAGTCGGTGTAGAATC [14181]

Tgu CTGGGTCTCTGATGACATCT----- [11545]
Cli CTGGGTCTCTGATGACAATC--ATGGTGCTCTTGGCTGCTCAGTAGTCGGTGTAGGATC [14241]
Gga CTGGGTCTCTGATGACATCTC--ACGGTGCCCTTGGCTGCTCAGTAGTCAGTGTAGGATC [12879]
Xtr CTGGGTCTCTAACTCCATTGC----- [13466]
Lch CTGGGTCTCTAATGGCAACAC--GGATGCTTGTGGCCGCTCAGTACTCAGTGTAGAGTC [15292]
Dre CTGGGTCTCTGATGGCATT---TGACGTGATCTGCAGACTCAGTACTCGGTGTAGAGTC [13919]

Hsa -----GCA [14671]
Mmu -----GCA [14502]
Mdo -----TCA [13552]
Meu -----GCA [11794]
Oan TGTCTGACATGATTAAAGAACAGCTACATCTGATTACTGGGTCACCGATAGCATCA--GCA [12601]
Aca TGTCTGA---TGATACCCACAGCTACATCTGATTACTGGGTTTCTGTGGCATCA--GCA [14595]
Pbi TGTCCGA---TAAAACCAACAGCTACATCTGATTACTGGGTCCTGTGGCATCA--TCA [15030]
Cpi TGTCTGACATTATTACCAACAGCTACATCTGATTACTGGGTCAGTATAGCATCA--GCA [15656]
Cmy TGTCTGACATTATTACCAACAGCTACATCTGATTACTGGGTCACCGATAGCATCA--GCA [15404]
Psi TGTCTAACATTGCTACCAACAGCTACATCTGATTACTGGGTCGCTGATGGCATCG--GCA [14189]
Asp TGTCTAACATTGCTACCAACAGCTACATCTGATTACTGGGTCAGTATAGCATCA--GCA [13428]
Ami TGTCTGACATTGATACCAACAGCTACATCTGATTACTGGGTCAGTAAATGTCATCA--GCA [14979]
Asi TGTCTGACATTGATACCAACAGCTACATCTGATTACTGGGTCAGTAAATGTCATCA--GCA [14239]
Tgu -----GCA [11548]
Cli TGTCTGACAGTCTCGCTAACAGCTACATCTGATTACTGGGTCACCAAAGGGTGAC--GCG [14299]
Gga TGTCCGACAGTCTCACTAACAGCTACATCTGATTACTGGGTCACCAAAGGACCAC--GCA [12937]
Xtr -----TAA [13469]
Lch TGTCTGACATTAATA--AACAGCTACATCTGATTACTGGGTCAGTACAGCATCC--CCA [15348]
Dre TGTGTGATTTCAGAAG--AGCAGCTACATCTGAATACTGGGTCAGTGGAGACGTCA--TAG [13975]

Hsa GTGCCACGCTCCGTGTATTTGACAAGCTGAGTTGGACACTCCAT--GTGGTAGAGTGTCA [14729]
Mmu GTGTCACGCTCCGTGTATTTGACAAGCTGAGTTGGACACTCTGT--GTGGTAGAGTGTCA [14560]
Mdo GTGCCACACTCCGTGTATTTGACAAGCTGAGTTGGACACTCCGT--GTCGTAGAGTGTCA [13610]
Meu GTGCCACACTCCGTGTATTTGACAAGCTGAGTTCAGACTCCGT--GTGGTAGAGTGTCA [11852]
Oan GTGCCGCGCTCCGTGTATTTGACAAGCTGAGTTGGACACTCCGT--GTGGTTGAGTGTCA [12659]
Aca GGGCTTCCCTCCGTGTATTTGACGATCTGA--TCGCACACTCCGTCTGCACCAGAGTGTCA [14654]
Pbi GTGTTGCCCTCTGTGTATTTGACAAGCTGGGTTCAACTCAGT--GTAGCA--GTGTCA [15086]
Cpi GTGCTGCGCTCCGTGTATTTGACAAGCTGAGTTTGGACTCAAT--GTGGCAGAGTGTCA [15714]
Cmy GTGCTGCGCTCCGTGTATTTGACAAGCTGAGTTTGGACTCAGT--GTGGCAGAGTGTCA [15462]
Psi GTGCTGCACTCCGTGTATTTGACAAGCTGAGTTTGGACTCAGT--GTGGCAGAGTGTCA [14247]
Asp GTGCTGCACTCCGTGTATTTGACAAGCTGAGTTTGGACTCAGT--GTGGCAGAGTGTCA [13486]
Ami GTGCTGCACTCCGTGTATTTGACAAGCTGAGTTTGGACTCAGT--GTGGCAGAGTGTCA [15037]
Asi GTGCTGCACTCCGTGTATTTGACAAGCTGAGTTTGGACTCAGT--GTGGCAGAGTGTCA [14297]
Tgu GTGTGGCACTGCGTGTATTTGACAAGCTGAGTCCGACTCAGT--GTG--CAGAGTGTCA [11605]
Cli GTGCCGCGCTGCGTGTATTTGACAAGCTGAGTCCGACTCAGT--GCG--AGAGTGTCA [14355]
Gga GTGCAGCACTGCGTGTATTTGACAAGCTGAGTTTGGACTCAGT--CTGGCAGAGTGTCA [12995]
Xtr GTGTGGCACTGAGTGTATTTGACAAGCTGAGTCCGACTCAAT--GAGACAGAGTGTCA [13527]
Lch GCACAGCGCTCAGTGTATTTGACAAGCTGAATTCGACTCAGT--TCTGTAGAGTGTCA [15406]
Dre ACTCTTCTCTTAGAGTATTTGACAGACTGTGGTTGACTCAGT--CTAAAGGGGTGTCA [14033]

Hsa GTTTGTCAAATACCCCAAGTGCGGCACA--GACATGCTGTCCACAGTGTGTTTGTATAAGC [14787]
Mmu GTTTGTCAAATACCCCAAGTGCGGCTCA--GATGTGCTGTCCACAGTGTATTTGTATAAGA [14618]
Mdo GTTTGTCAAATACCCCAAGTGAGGCATT--GACAACTGTCCAGAGTGTGTTTGTATAATC [13668]
Meu GTTTGTCAAATACCCCAAGTGAGACATT--GATAAACTGTCCAGAGTGTGTTTGTATAAGC [11910]
Oan GTTTGTCAAATACCCCAAGTGAGGCATT--AACACACTGTCCCTCAGTGCCTTTGTATAAGC [12717]
Aca GTTTGTCAAATATACAAAGGGCGGCCTC----- [14682]
Pbi GTTTGTCAAATATACAAAGTGCGGCATT--AACAGAACATCCACAGTGTGTTTGTATAAGC [15144]
Cpi GTTTGTCAAATACCCCAAGTGAAGCATT--GATATACTGTCAATAGTGTGTTTGTATAACC [15772]
Cmy GTTTGTCAAATACCCCAAGTGAGGCATT--GATATACTGTCCACAGTGTGTTTGTATAACC [15520]
Psi GTTTGTCAAATACCCCAAGTGAGGCATT--AACACACTGTCCCAAGTGTGTTTGTATAAGC [14305]

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Asp GTTTGTCAAATACCCCAAGTGAGGCATT--AATACATTGTCCCCAGTGTGTTTGTATGAGC [13544]
Ami GTTTGTCAAATACCCCAAGTGAGGCATT--GACATATTGTCCATAGTGTGTTTGTATAAGC [15095]
Asi GTTTGTCAAATACCCCAAGTGAGGCATT--GACATATCGTCCATAGTGTGTTTGTATAAGC [14355]
Tgu GTTTGTCAAATACCCCAAGTGAGGCACT--GGCAAAGTGTCTCAGTGTGTTTGTATAAGC [11663]
Cli GTTTGTCAAATACCCCAAGCGAGGCACT--GACAGACTGTCCACAGTGTGTTTGTATAAGC [14413]
Gga GTTTGTCAAATACCCCAAGTGAGGCACT----- [13023]
Xtr GTTTGTCAAATACCCCAAGTGAGGCACC----- [13555]
Lch GTTTGTCAAATACCCCAAGTGAGGTGTT--CATTACAGTCCATAGTGTGTTTGTATAAGC [15464]
Dre GTTTGTCAAATACCCCAAGAGAGGGGGC----- [14061]

Hsa TGACATGGGACAGGGATTCTTT-----TTCAGTGTGTGTCAGTTTATCAAACCCATA [14839]
Mmu TGACATAGGAGAGGAACCTTCT-----TTCACCTTTGTGTGTCAGTTTATCAAACCCATA [14670]
Mdo TGACATGGGACAGAGGTTCTTT-----TTCAGTGTGTGTCAGTTTATCAAACCCATA [13720]
Meu TGACATGGGACAGGCTTACTTT-----TTCAGTGTGTGTCAGTTTATCAAACCCATA [11962]
Oan TAACATGAGACAGGAGCTTTTTT-----TTCACGGTTGTGTGTCAGTGTATCAGACACAAG [12770]
Aca ----- [14682]
Pbi TGACATGGGACAGGAATTCTTT-----TTCAGTGTGTGTCAGTTTATCAAACCCATA [15197]
Cpi TGATGTGGGACAGGAGTTCTTT-----TTCAGTGTGTGTCAGTTTATCAAACCCCTGG [15824]
Cmy TGATGTGGGACCGGAGTTCTTT-----TTCGCTGTGTGTCAGTTTCTCAAACCTATA [15572]
Psi TGATATTATATGGGAGGTTTCGCCCCG--CCCTCCGTTGTATCAGTTTATCAAACCCATA [14363]
Asp TGATATGATATGGGAGGTTTCGCCCCCAACCCCTGCTGTGTCAGTTTATCAAACCCATA [13604]
Ami TGACATGGGACAGGAGTTCTTT-----TTCAGTGTGTGTCAGTTTATCAAACCCATA [15147]
Asi TGACATGGGACAGGAGTTCTTT-----TTCAGTGTGTGTCAGTTTATCAAACCCATA [14407]
Tgu TGACGTGGGACAGGATTTCTTT-----TTTGCTGCTGTGTCAGTATATCAAATCATA [11715]
Cli TGACATGGGACAGGATTTCTTT-----TTCAGTGTGTGTCAGTATATCAAACCTCATA [14465]
Gga ----- [13023]
Xtr ----- [13555]
Lch AGACATGAGACAGGCATCTTT-----CTCACTGTGTGTCAGTTTCATCAAACCCATA [15516]
Dre ----- [14061]

Hsa CTTGGATGA--GGCTGTCTCTCCAACAATATCCTGGTGCTG---AGTG-ATGACTCAG- [14892]
Mmu CCTGGATGA--GGCCGTCTCCCCAACAATATCCTGGTGCTG---AGTGGGTG-CACAG- [14723]
Mdo CCTGGATAC--GGCCTTCTCCCCAACAATATCCTGATGCTG---AGTGAGCGGCACAT- [13774]
Meu CCTGGACAC--GGCCTTCTCCCCAACAATATCCTGATGCTG---AGTGAGCGGCACAC- [12016]
Oan CCTGAGCAC----- [12779]
Aca -----GCTCCTTGTCCTCAACAATATCCTGGTGCTG---AGTGAGTGGCACTC- [14727]
Pbi CGTGGATAG--GTTTCTCCCCGTCAACAATATCCTGGTGCTG---AGTGAGTGGCACTC- [15251]
Cpi AAGCCCTG--GCTTCTCTCCCCAACAATATCCTGGTGCTG---AGTGAGTTGCACAC- [15878]
Cmy CATGGACAT--GCTTCCCCCTCCCCAACAATATCCTGGTGCTC---AGTGAGTTGCACAC- [15626]
Psi CCTGGACAT----- [14372]
Asp CCTGGACAT----- [13613]
Ami CCTGGACAT--CTCCCGCTCCCCAACAATATCCTGGTGCTG---AGCGAGTTGCGCAC- [15201]
Asi CCTGGACAT--CTCCCGCTCCCCAACAATATCCTGGTGCTG---AGCGAGTTGCGCAC- [14461]
Tgu CCTGCACAT----- [11724]
Cli CCTGGTCAT--GCTCCTCTGCCCAACAATATCCTGGTGCTG---AGTGAGTTGCAGAC- [14519]
Gga -----GCTCCTCTGCCCAACAATATCCTGGTGCTG---AGTGAGTTGCACAC- [13068]
Xtr -----GTTTGTCCCTGGAACAATATCCTGATGCTG---AATGAGTGGGACAT- [13600]
Lch CCTGGACAT--GTTACCTGCTACAACAATATCCTGGTGCTG---AATGAGTGGGACTTG [15571]
Dre -----GGTGTCTCCTGGCAACAATATCCTGGTGCTG---CCTGAGTACATCTC- [14106]

Hsa -GCGACTCCAGCATCAGTGATTTTGTGTTGAAGAGGGCAGCT----- [14931]
Mmu --TGACTCCAGCATCAGTGATTTTGTGTTGAAGAGGGCAGCT----- [14761]
Mdo GGAGACTCCAGCATCAGTGATTTTGTGTTGAAGAGGGTGGCT----- [13814]
Meu AGAGACTCCAGCATCAGTGATTTTGTGTTGAAGAGGGTGGCT----- [12056]
Oan ----- [12779]
Aca AAAGACTCCAGCATCAGTGATTTTGTGTTGAAGAGGGTGGCT----- [14767]
Pbi AGAGACTCCAGCATCAGTGATTTTGTGTTGAAGAGGGGTGGCT----- [15291]
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Cpi GGAGACTCCAGCATCAGTGATTTTGTGTTGAAGAGGGCGAGC--TTATTTCTGGCAACACTA [15936]
Cmy GGAGACTCCAGCATCAGTGATTTTGTGTTGAAGAGGGCGAGC--TTATTTCTGGCAACACTA [15684]
Psi -----TTATTTCTGGCAACACTA [14390]
Asp -----TTATTTCTGGCAACACTA [13631]
Ami AGAGACTCCAGCATCAGTGATTTTGTGTTGAGGAGGGCGAGC--TTATTTCTGGCAACACTA [15259]
Asi AGAGACTCCAGCATCAGTGATTTTGTGTTGAGGAGGGCGAGC--TTATTTCTGGCAACACTA [14519]
Tgu -----TTACTTCTAGCAACACTA [11742]
Cli AGAGACTCCAGCATCAGTGATTTTGTGTTGAGGAGGGGGTGC--TTACTTCTAGCAACACTA [14577]
Gga AGAGACTCCAGCATCAGTGATTTTGTGTTGAGGAAGGGGAGC--TTACTTCTAGCAGCACTA [13126]
Xtr ACATGCTCCAGCATCAGTGATTTTGTGTTGCAGGCGGCACAC--TTACTTCTGGCAACAATA [13658]
Lch GGAGACTCCAGCATCAGTGATTTTGTGTTGCGGAGGGTGATC--TTGCCTCTGACAACAATA [15629]
Dre ACAGACTCCAGCATCAGTGATTTTGTGTTGCCGGGGGAAAAC--TGCCTGCTGAGAACAATA [14164]

Hsa ----- [14931]
Mmu ----- [14761]
Mdo ----- [13814]
Meu ----- [12056]
Oan ----- [12779]
Aca ----- [14767]
Pbi ----- [15291]
Cpi TCCTGATGCTGTCAGAGTATGTGGTA--AAGCTCCAGCATCAGTGATTTTGTGTTAGTGT [15994]
Cmy TCCTGATGCTGTCAGAGTATGTGGTA--AAGCTCCAGCATCAGTGATTTTGTGTTAGTGT [15742]
Psi TCCTGATGCTGTCAGAGTATGTGGTA--AAGCTCCAGCATCAGTGATTTTGTGTTAGTGT [14448]
Asp TCCTGATGCTGTCAGAGTATGTGGTA--AAGCTCCAGCATCAGTGATTTTGTGTTAGTGT [13689]
Ami TCCTGATGCTGTCAGAGTATGTGGTA--AAGCTCCAGCATCAGTGATTTTGTGTTAGTGT [15317]
Asi TCCTGATGCTGTCAGAGTATGTGGTA--AAGCTCCAGCATCAGTGATTTTGTGTTAGTGT [14577]
Tgu TCCTGATGCTGTCAGAGTAAAGTGGTA--AAGCTCCAGCATCAGTGATTTTGTGTTAGTGT [11800]
Cli TCCTGATGCTGTCAGAGTAAAGTGGTA--AAGCTCCAGCATCAGTGATTTTGTGTTAGTGT [14635]
Gga TCCTGATGCTGTCAGAGTAAAGTGGTA--AAGCTCCAGCATCAGTGATTTTGTGTTAGTGT [13184]
Xtr TCCTGATGCCGTCTGAGTGTGCGGGA--AAGCTCCAGCATCAGTGATTTTGTGTTAGTGT [13716]
Lch TCCTGGTGTCTCCGAGTATGTGGAA--AAGCTCCAGCATCAGTGATTTTGTGTTAGTGT [15687]
Dre TCCTGATGCTGAATGAGTGTGTTGAAGGAAACTCCAGCATCAGTGATTTTGTGTTGCCAGAG [14224]

Hsa -----TTTTGCTGTTGTCGGGTGGATCACGATGCAA--TTTTGATGAGTATCATAGG-- [14981]
Mmu -----TTTTGCTGTTATCAGGTGGAACACGATGCAA--TTTTGGTTGGTGTAAATAGG-- [14811]
Mdo -----TTTTGCTGT-GTCGGGTGGATCACGATGCAAATTTTGATAAGTTTAATAGG-- [13864]
Meu -----GTTTGTGTTGTCGGGTGGATCACGATGCAA--TTTTGATAAGTTTAGTAGG-- [12106]
Oan -----TTTTGCTGTTGTCGGGTGGATCACGATGCAA--TTTTGATTAGTTTAGTAGG-- [12829]
Aca -----TTTTGCTGTTGTCGGGTGGATCACGATGCAA--TTTTGATTAGATTAGCAGG-- [14817]
Pbi -----TGTTGCTGTTGTCGGGTGGATCACGGTGC--TTTTGATTAGATTAGCAGG-- [15341]
Cpi GTAAA--TTTTGCTGTTGTCGGGTGGATCACGATGCAA--TTTTGATTAGTTTAGCAGG-- [16049]
Cmy GTAAA--TTTTGCTGTTGTCGGGTGGATCACGATGCAA--TTTTGATTAGTTTAGCAGG-- [15797]
Psi GTAAA--TTTTGCTGTTGTCGGGTGGATCACGATGCAA--TTTTGATTAGTTTAGCAGG-- [14503]
Asp GTAAA--TTTTGCTGTTGTCGGGTGGATCACGATGCAA--TTTTGATTAGTTTAGCAGG-- [13744]
Ami GTAAA----- [15322]
Asi GTAAA--TTTTGCTGTTGTCGGGTGGATCACGATGCAA--TTTTGATTAGTTTAGAAGG-- [14632]
Tgu GTAAA--TTTTGCTGTTGTCGGGTGGATCACGATGCAA--TTTTGATTAGTTTAGTAGG-- [11855]
Cli GTAAA--TTTTGCTGTTGTCGGGTGGATCACGATGCAA--TTTTGATTAGTTTAGTAGG-- [14690]
Gga GTAAA--TTTTGCTGTTGTCGGGTGGATCACGATGCAA--TTTTGATTAGTTTAGTAGG-- [13239]
Xtr GTAAA--TTTTGTTGTTTCGCGGGTGGATCACGATGCAA--TTTTATTTAGTTTGGTAGG-- [13771]
Lch GTGAA--TCTTGTGTTGTCGGGTGGATCACGATGCAA--TTTT--TTT-GTTTTTGCGA-- [15740]
Dre GAGCAC---TTGCTGTTTTCGGGTGGATGACTCTGCAA--TTTTATTAGTGATGGAAAAAC [14280]

Hsa ---AGAAAAA--TTGCACGGTATCCATCTGTAAACCGCAGG--CCATTACTGTTGCTAATA [15035]
Mmu ---AGAAAAA--TTGCACGGTATCCATCTGTAAACCGCAGG--CCGTCACTGTTGCTAACA [14865]
Mdo ---AGAAAAAATTTGCACGGTATCCATCTGTAAACCGCAAG--CCACTACTGTTGCTAACA [13919]
Meu ---AGAAAAA--TTGCACGGTATCCATCTGTAAACCGCAAG--CCACTACTGTTGCTAACA [12160]
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Oan ---AGAAAAA-TTGCACGGTATCCATCTGTAAACCGCAGG--CCATTACTGTTGCTAACA [12883]
Aca ---ACGAAAA-TTGCACGGTATCCATCTGTAAACCGCAGG--CCTTTACTGTTGCTAATG [14871]
Pbi ---ACGGAAA-TTGCACGGTATCCATCTGTAAACCGCAGG----- [15377]
Cpi ---AGAAAAA-TTGCACGGTATCCATCTGTAAACCGCAGG--CCACTACTGTTGCTAATA [16103]
Cmy ---AGAAAAA-TTGCACGGTATCCATCTGTAAACCGCAGG--CCACTACTGTTGCTAATA [15851]
Psi ---AGAAAAA-TTGCACGGTATCCATCTGTAAACCGCAGG--CCACTACTGTTGCTAACA [14557]
Asp ---AGAAAAA-TTGCACGGTATCCATCTGTAAACCGCAGG--CCACTACTGTTGCTAACA [13798]
Ami -----CTGCTACTGTTGCTAATA [15340]
Asi ---AGAAAAA-TTGCACGGTATCCATCTGTAAACCGCAGG--CTGCTACTGTTGCTAATA [14686]
Tgu ---AGAAAAA-TTGCACGGTATCCATCTGTAAACCGCAAG--CTAATACTGTTGCTAATA [11909]
Cli ---AGAAAAA-TTGCACGGTATCCATCTGTAAACCGCAAG--CTAATACTGTTGCTAATA [14744]
Gga ---AGAAAAA-TTGCACGGTATCCATCTGTAAACCGCAAG--CTAATACTGTTGCTAACA [13293]
Xtr ---AGAAAAA-TTGCACGGTATCCATCTGTAAACCGCAGA--CAGTTACTGTTGCCTATG [13825]
Lch ---TTTAAAA-TTGCACGGTATCCATCTGTAATCCGCTAG----- [15776]
Dre TTCAATAAAAATTGCACGGTATCCATCTGTAATCCGCTGG----- [14320]

Hsa TGCAA-CTCTGTTGAATATAAAATTGGAATTGCACTTTAGCAATGGTGATGG--GGCCCTC [15092]
Mmu TGCAA-CTCTGTTGAATAGAAAATTGGAATTGCACTTTAGCAATGGTGATGG--GGTCTTC [14922]
Mdo TGCAA-CTCTGTTCTATGTAAACGGGAATTGCACTTTAGCAATGGTGATGG--GACTCTC [13976]
Meu TGCAA-CTCTGTTATATGTAAACGGGAATTGCACTTTAGCAATGGTGATGG--CCCCTCC [12217]
Oan TGCAA-CTCTGTTATGTATAAACTGGAATTGCACTTTAGCAATGGTGATGG----- [12933]
Aca TGCAA-CTCTGTTATGTATAAATCTGGAATTGCACTTTAGCAATGGTGATGG--CTACTGC [14928]
Pbi -----CACTAGC [15384]
Cpi TGCAA-CTCTGTTGTGTAAAAGCTGGAATTGCACTTTAGCAATGGTGATGG--CAACCTC [16160]
Cmy TGCAA-CTCTGTTGTGTAAAAGCTGGAATTGCACTTTAGCAATGGTGATGG--CAACCTC [15908]
Psi TGCAA-CTCTGTTGTGTAAAAGCTGGAATTGCACTTTAGCAATGGTGATGG--CAACCTC [14614]
Asp TGCAA-CTCTGTTGTGTAAAAGCTGGAATTGCACTTTAGCAATGGTGATGG----- [13848]
Ami TGCAA-CTCTGTTATGTCAAAAATTGGAATTGCACTTTAGCAATGGTGATGG--CGCCCTC [15397]
Asi TGCAA-CTCTGTTACGTCAAAAATTGGAATTGCACTTTAGCAATGGTGATGG--CGCCCTC [14743]
Tgu TGCAA-CTCTGTTGTATAAAAAATTGGAATTGCACTTTAGCAATGGTGATGG--GCATCTC [11966]
Cli TGCAA-CTCTGTTGTATAAAAAATTGGAATTGCACTTTAGCAATGGTGATGG--GCAACTC [14801]
Gga TGCAA-CTCTGTTGTATAAAAAATTGGAATTGCACTTTAGCAATGGTGATGG--GCGACTC [13350]
Xtr TGCAAACCTCTGTGCTATATTGTCTAGAATTGCACTGTAGCAATGGTGACTG--CCGGCTC [13883]
Lch -----GACTTTC [15783]
Dre -----ATAAAAC [14327]

Hsa CGCTCCC-GCCCCGCGACGAGCCCC-TCGCACA-ACCGGACCTGAGCGTTTTGTTTCGTT [15149]
Mmu CGCTCCG-GCCCCGCGACGAGCCCC-TCGCACA-ACCGGACCTGAGCGTTTTGTTTCGTT [14979]
Mdo CGCTCCC-GACCCGCGCCGAGCCCC-TCGCACA-ACCGGACCTGAGCGTTTTGTTTCGTT [14033]
Meu CGCTCCCCGCCCCGCGCCGAGCCCCCTCGCACAACCGGAC-TGAACGTATTGTTTCGTT [12276]
Oan ----- [12933]
Aca TGTGCTT-GCCTCGCGTCGAGCCCCACGCACAAG-ACCTGACGTGAATGTTTTGTTTCGTT [14986]
Pbi TGGGCTT-GCCTCGCGTCGAGCCCCACGCACAAG-ACCTGACGTGAATGTTTTGTTTCGTT [15442]
Cpi TGCACTT-GCCTGGCGTCGAGCCCCACGTGCAAG-ACCTGACGTGAACGTTTTGTTTCGTT [16218]
Cmy TGCACTT-GCCTGGCGTCGAGCCCCACGTGCAAG-ACCTGACGTGAACGTTTTGTTTCGTT [15966]
Psi TGCACTT-GCCTGGCGTCGAGCCCCACGTGCAAG-ACCTGACGTGAACGTTTTGTTTCGTT [14672]
Asp ----- [13848]
Ami TGCGCCT-GCCTGGCGTCGAGCCCCACGTGCAAG-ACCTGACGTGAATGTTTTGTTTCGTT [15455]
Asi TGCGCCT-GCCTGGCGTCGAGCCCCACGTGCAAG-ACCTGACGTGAATGTTTTGTTTCGTT [14801]
Tgu TGCACTT-GCCTGGCGTCGAGCCCCACGTGCAAT-ACCTGACCTGAACGTTTTGTTTCGTT [12024]
Cli TGCACTT-GCCTGGCGTCGAGCCCCACGTGCAAG-ACCTGACCTGAACGTTTTGTTTCGTT [14859]
Gga TGCACTT-GCCTGGCGTCGAGCCCCACGTGCAAG-ACCTGACCTGAACGTTTTGTTTCGTT [13408]
Xtr CGCACTT-GCCTGACGCCGAGCCTGACGTGCAAT-GCTTTGTGTCAACGTTTTGTTTCGTT [13941]
Lch TGCACTT-GCCTCACGTTGAGCCAGACTAACAAT-ACCTGAAGTCAAAGTTTTGTTTCGTT [15841]
Dre TGCACTT-GCTTTACGTTGAGCCACACGCACAAT-ACATGTGGATTTCAGTTTTGTTTCGTT [14385]

Hsa CGGCTCGCGTGAGGCAGGGCGGCCCTC--CTCAGATCAGAAGGTGATTGTGGCTTTGGGT [15207]

Mmu CGGCTCGCGTGAGGCAGGGCGGCTTC--CTCAGATCAGAAGGTGACTGTGGCTTTGGGT [15037]
Mdo CGGCTCGCGTGAGGCAGGGCGACCAG--CTCAGATCAGAAGGTGATTGTGGCTTTTCGGT [14091]
Meu CGGCTCGCGTGAGGCAGGGCGGTCTA----- [12303]
Oan -----CTCAGATCAGAAGGTGATTGTGGCTTTGGGT [12964]
Aca CGGCTCGCGTTAGGCAGGTCCAGCCTA--CTCAGATCAGAAGGTGATTGTGGCTTTGCTT [15044]
Pbi CGGCTCGCGTTAGGCAGGTCCAGCCTG--CTCAGATCAGAAGGTGATTGTGGCTTTGGTT [15500]
Cpi CGGCTCGCGTTAGGCAGGTCCAGCCTG--CTCAGATCAGAAGGTGATTGTGGCTTTGAGT [16276]
Cmy CGGCTCGCGTTAGGCAGGTCCAGCCTG--CTCAGATCAGAAGGTGATTGTGGCTTTGAGT [16024]
Psi CGGCTCGCGTTAGGCAGGTCCAGCCTG--CTCAGATCAGAAGGTGATTGTGGCTTTGACT [14730]
Asp -----CTCAGATCAGAAGGTGATTGTGGCTTTGAGT [13879]
Ami CGGCTCGCGTTAGGCAGGCCAGCCTG--CTCAGATCAGAAGGTGATTGTGGCTTTGAGT [15513]
Asi CGGCTCGCGTTAGGCAGGCCAGCCTG--CTCAGATCAGAAGGTGATTGTGGCTTTGAGT [14859]
Tgu CGGCTCGCGTTAGGCAGGTCCAGCCCA--CTCAGATCAGAAGGTGATTGTGGCTTTGAGT [12082]
Cli CGGCTCGCGTTAGGCAGGTCCAGCCCA--CTCAGATCAGAAGGTGATTGTGGCTTTGAAT [14917]
Gga CGGCTCGCGTTAGGCAGGTCCAGCCTG--CTCAGATCAGAAGGTGATTGTGGCTTTGGGT [13466]
Xtr CGGCTCGCGTTAAGCAGGTGCGGCTTG--CTCAGATCAGAAGGTGATTGTGGCTTTTAGT [13999]
Lch CGGCTCGCGTTACGCAGGTACAGTTTC----- [15868]
Dre CGGCTCGCGTTAAGCAAGTGCAGAACT----- [14412]

Hsa GGATATTAATCAGCCACAGCACTGCCTGGTCAGAAAGAG--AAAGCGCTTTGGAATGACA [15265]
Mmu GGATATTAATCAGCCACAGCACTGCCTGGTCAGAAAGAG--AAAGTGCTTTGGAATGACA [15095]
Mdo AGACATGGAACAGCCACATCACTGGCTGGTCAGAAAGAG--AAAGTGCTTTGGAATGACA [14149]
Meu -----AAAGCGCTTTGGAATGACA [12322]
Oan AGCTACTAAGCAGCCACAACACTGCCTGGTCAGAAAGAG--AAATCGCTTTGGAATGACA [13022]
Aca TTATATGAAACAGCCACAGCACTGCCTGGTCAGAAAGAG--GAATGGTTTTGGAATGACA [15102]
Pbi TGATATGAAACAGCCACAGCACTGCCTGGTCAGAAAGAG--AAATGCGCAGGAATGACA [15558]
Cpi AGATATTAAGCAGCCACAGCACTGCCTGGTCAGAAAGAG--AAATGCTTTGGAATGACA [16334]
Cmy AGATATTAAGCAGCCACAGCACTGCCTGGTCAGAAAGAG--AAATGCTTTGGAATGACA [16082]
Psi AGATACTAAGCAGCCACAGCACTGCCTGGTCAGAAAGAG----- [14769]
Asp AGATACTAAGCAGCCACAGCACTGCCTGGTCAGAAAGAG----- [13918]
Ami AGATATTAAGCAGCCACAGCACTGCCTGGTCAGAAAGAG--AGATTGCTTTGGAATGACA [15571]
Asi AGATATTAAGCAGCCACAGCACTGCCTGGTCAGAAAGAG--AGATTGCTTTGGAATGACA [14917]
Tgu AAATATTAAGCAGCCACAGCACTGCCTGGTCAGAAAGAG--AGATGGCTTTGGAATGACA [12140]
Cli AGCTATTAAGCAGCCACAGCACTACCTGGTCAGAAAGAG--AGACGGCTTTGGAATGACA [14975]
Gga AAATATTTGAGCAGCCACAGCACTGCCTGGTCAGAAAGAG--AGACAGCTTTGGAATGACA [13524]
Xtr AGATATTAAGCAGCCACAGCACTGCCTGGTCAGAAAGAG--ACTTAGCTTTGGAATGACA [14057]
Lch ----- [15868]
Dre ----- [14412]

Hsa CGATCACTCCCCTTGAGTGGGCACCCGAGAAGCCATCGGGAATGTCGTGTCCGCCAGTG [15325]
Mmu CGATCACTCCCCTTGAGTGGGCACCCAAGAAGCCATCGGGAATGTCGTGTCCGCCAGTG [15155]
Mdo CGATCACTCCCCTTGAGCGGACAGCCAAGAAGCCATCGGGAATATCGTGTCCGTCCAATG [14209]
Meu CGATCACTCCCCTTGAGCGGACAGCCAAGAAGCCATCGGGCATATCGTGTCTGTCCAATG [12382]
Oan CGATCACTCCCCTTGAGCGGACAGCCAAGAAGCCATCGGGAATATCGTGTCCGTCCAAG [13082]
Aca CGATCACTCCCCTTGAGCGAGCAGAGCCACGGCCA--CGGGGATGTCGTGTCTGTCCAAAA [15161]
Pbi CGATCACTCCCCTTGAGCGAGTGGACGCAGAGCCA--CGGGGCTGTCGTGTCTGTCTGAG [15617]
Cpi CGATCACTCCCCTTGAGCAAGCAGCCAGA--GCCATCGGGAATATCGTGTCCGTCCAAG [16392]
Cmy CGATCACTCCCCTTGAGCGAGCAGCCAGAGAGCCATCGGGAATGTCGTGTCCGTCCAAG [16142]
Psi ----- [14769]
Asp ----- [13918]
Ami CGATCACTCCCCTTGAGCGAGACGCCCAGAGCCATCGGGAATATCGTGTCCGTCCAAG [15631]
Asi CGATCACTCCCCTTGAGCGAGACGCCCAGAGCCATCGGGAATATCGTGTCCGTCCAAG [14977]
Tgu CGATCACTCCCCTTGAGCCAGCAGCCAGAGAGCCATCGGGGATGTCGTGTCTTTCCAAG [12200]
Cli CGATCACTCCCCTTGAGC--GGGCAGCCTGAGGCCATCGGGGATGTCGTGTCTGTCCAAG [15034]
Gga CGATCACTCCCCTTGAGCACGCAGCCAGAGAGCCATCGGGGATGTCGTGTCTGTCTAAG [13584]
Xtr CGATCACTCCCCTTGAGCCGAAACTCACAGCGCCATCGGGAATATCGTGTCCGTCCAAG [14117]
Lch ----- [15868]

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Dre ----- [14412]

Hsa CTCTTTTCGGC--CCACCACTTAAACGTGGATGTACTTGCCTTTGAAACTAAAGA-AGTAAG [15382]
Mmu CTCTTTTCGGC--CCACCACTTAAACGTGGTTGTACTTGCCTTTAGACCTAAGAA-AGTAAG [15212]
Mdo CTCTTTTCAGC--CCACTACTTAAACGTGGATTTACTTGCCTTTGTTTCTAAAAA-AGTAAG [14266]
Meu CCCTTTTCGGC--CCACCACTTAAACGTGGATTTACTTGCCTTTGTTTCTAAAAA-AGTAAG [12439]
Oan CTCTTTTCGGG--CTGTCACTTAAACGTGGATAAACTTGCCTTTACTTTTAA----AGTAAG [13136]
Aca CTATTTTCAA--CCACTACTTTAATATGAAAGTACTTGTTTTTTGTTCCTTTT--AAAAAG [15217]
Pbi CTTTTTCCAA----- [15627]
Cpi CTTTTTTCGGC--CCACTACTTTAATGTGGAAGTACTTGCCTTTGCTCCTGATAA-AGTAAG [16449]
Cmy CTCTTTTCGGC--CCACTACTTTAATGTGGAAGTACTTGCCTTTGCTCCTGAAAA-AGTAAG [16199]
Psi -----CCACTACTTTAATGTGGAAGTACTTGCCTTTGCTCCTGAAAA-AGTAAG [14816]
Asp -----CCACTACTTTAATGTGGAAGTACTTGCCTTTGCTCCTGAAAA-AGTAAG [13965]
Ami CTCTTTTCGGC--CCAGAACTTTAATGTGGATGTACTTGCCTTTGTTTCTGAAAA-AGTAAG [15688]
Asi CTCTTTTCGGC--CCAGAACTTTAATGTGGATGTACTTGCCTTTGTTTCTGAAAA-AGTAAG [15034]
Tgu CTCTTTTCGGC--CCACAACCTAAATGTGGACGTGCTTGCCTTTGGCTCACAA--GTAAG [12256]
Cli CTCTTTTCGGT--CCATAACTTAAATGTGGATGTACTTGCCTTTGTTTCTGAAAA--GTAAG [15090]
Gga CTCTTTCTGC--CCACAACCTAAATGTGGATGTGCTTGCCTTTGTT--CTGAAAA--GAAAG [13639]
Xtr CTCTCTCTTC--CCACTACTTTAACATTGGTGTACTTTCTATGTCTTTAAAAAGGGTAAG [14175]
Lch ----- [15868]
Dre ----- [14412]

Hsa TGCTTCCATGTTTTGGTGATGG--CTTCAACTTTAACATGGAAGTGCCTTTCTGTGACT-T [15439]
Mmu TGCTTCCATGTTTTGGTGATGG--CTTCAACTTTAACATGGGAATGCCTTTCTGTCTCA-T [15269]
Mdo TGCTTCCATGTTTTAGTGATGG--CTTCTACTTTAACATGGAGGTACTTTCTGTG--T-T [14321]
Meu TGCTTCCATGTTTTAGTGATGG----- [12461]
Oan TGCTTCCATGTTTTAGTGATGG--CTTCTACTTTAACATGGAGGTGCCTTTCTGTG-AT-T [13192]
Aca TGCTTTCATATTTTAGTGATGG--CTTCTACTTTAACATGGAGGTGCCTTTCTGTGCAT-A [15274]
Pbi ----- [15627]
Cpi TGCTTCCATGTTTTAGTGATGG--CTTCTACTTTAACATGGAGGTGCCTTTCTGTGACT-A [16506]
Cmy TGCTTCCATGTTTTAGTGATGG--CTTCTACTTTAACATGGAGGTGCCTTTCTGTGACT-A [16256]
Psi TGCTTCCATGTTTTAGTGATGG--CTTCTACTTTAACATGGAGGTGCCTTTCTGTGACT-A [14873]
Asp TGCTTCCATGTTTTAGTGATGG--CTTCTACTTTAACATGGAGGTGCCTTTCTGTGACT-A [14022]
Ami TGCTTCCATGTTTTGGTGCTGG--CTTCTACTTTAACATGGAGGTGCCTTTCTGTGACTTA [15746]
Asi TGCTTCCATGTTTTAGTGCTGG--CTTCTACTTTAACATGGAGGTGCCTTTCTGTGACTTA [15092]
Tgu TGCTTCCATGTTTTAGTGGTGG--CTTTTACTTTACCATGGAGGTGCCTTTCTGTGACATA [12314]
Cli TGCTTCCATGTTTTGGTGATGG--CTTTTACTTTAACATGGAGGTGCCTTTCTGTGACTTA [15148]
Gga TGCTTCCATGTTTTAGTGATGG--CTTTTACTTTAACATGGAGGTGCCTTTCTGTGATTTT [13697]
Xtr TGCTCCAATGTTTTAGTGGTGG----- [14197]
Lch ----- [15868]
Dre ----- [14412]

Hsa T-AAA-----AGTAAGTGCTTCCATGTTTTAGTAGGAG--CCTTTGCTTTAACATGGGG [15490]
Mmu CGAAG-----AGTAAGTGCTTCCATGTTTTAGTAGAAG--CCTCTGCTTTAACATGGGG [15321]
Mdo TAAAAA-----GGTAAGTGCTTCCATGTTTTGGTAGGAG--TCTCTGCTTTAACATGGGG [14374]
Meu -----TCTCTGCTTTAACATGGGG [12480]
Oan TAAAAA-----AGTAAGTGCTTCCATGTTTTAGTAGAGG--CCTTTGCTTTAACATGGGG [13244]
Aca TAAAAA-----AGTAAGTGCTTCCATGTTTTAGTAGAGG----- [15307]
Pbi ----- [15627]
Cpi TAAAAA-----AGTAAGTGCTTCCATGTTTTAGTAGAGG--CCTTTGCTTTAACATGGGG [16558]
Cmy TAAAAA-----AGTAAGTGCTTCCATGTTTTAGTAGAGG--TCTTTGCTTTAACATGGGG [16308]
Psi TAAAAA-----AGTAAGTGCTTCCATGTTTTAGTAGAGG--CCTTTGCTTTAACATGGAG [14925]
Asp TAAAAA-----AGTAAGTGCTTCCATGTTTTAGTAGAGG--CCTTTGCTTTAACATGGAG [14074]
Ami TAAGA-----AGTAAGTGCTTCCATGTTTTAGTAGAGG--CCTTTGCTTTAACATGGAG [15798]
Asi TAAGA-----AGTAAGTGCTTCCATGTTTTAGTAGAGG--CCTTTGCTTTAACATGGAG [15144]
Tgu GAAAA-----AGTAAGTGCTTCCATGTTTTAGTAGAGG--CCTTTGCTTTAACATGGAG [12366]
Cli AAAGA-----AGTAAGTGCTTCCATGTTTTAGTAGAGG--CCTTTGCTTTAACATGGAG [15200]
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Gga	ACAAA-----AGTAAGTGCTTCCATGTTTTAGTAGAGG--CCTCCGCTTTAACATGGAG	[13749]
Xtr	-----	[14197]
Lch	-----TTGTTGCTCTAACA--GGA	[15885]
Dre	-----	[14412]
Hsa	GTACCTGCTGTGTGAAACAAAAGTAAGTGCTTCCATGTTTCAGTGGAGG--CCTCTACTTT	[15548]
Mmu	TTACCTGCTGTGTTAAACAAAAGCAAGTGCTTCCATGTTTCAGTGGGGG--CCTTTACTTT	[15379]
Mdo	GTACCTGCTACGTAATA-AAAAGTAAGTGCTTCCATGTTTCAGTGGAGA--CCTCTGCTTT	[14431]
Meu	GTACCTGCTACGTAATAAAAAAGTAAGTGCTTCCATGTTTCAGTGGAGG--CTTCTACTTT	[12538]
Oan	GTACCTGCTACGTAAG--AAAAGTAAGTGCTTCCATGTTTCAGTGGAGG--CTTCTCCTTT	[13300]
Aca	-----	[15307]
Pbi	-----	[15627]
Cpi	GTACCTGCTGCCTAGAAA--AAGTAAGTGCTTCCATGTTTCAGTGGTGG--CCTCTACTTT	[16614]
Cmy	GTACCTGCTGCCTAGAA-----AAAGTGCCTATGTTTCAGTGGTGG--CCTCTACTTT	[16360]
Psi	GTACCTGCTGCCTAGAAA--AAGTAAGTGCTTCCATGTTTCAGTGGTGG--CCTCTACTTT	[14981]
Asp	GTACCTGCTGCCTAGAAA--AAGTAAGTGCTTCCATGTTTCAGTGGTGG--CCTCTACTTT	[14130]
Ami	GTACCTGCTGCCTAAAAA--AAGTAAGTGCTTCCATGTTTCAGTGGTGG--CCTCTACTTT	[15854]
Asi	GTACCTGCTGCCTAAAAA--AAGTAAGTGCTTCCATGTTTCAGTGGTGG--CCTCTACTTT	[15200]
Tgu	GTACCTGCTGCCTAAAAA--AGTAAGTGCTTCCATGTTTCAGTGGCGG--CCTCTACTTT	[12421]
Cli	GTACCTGCTGCTTAGAA--AAGTAAGTGCTTCCATGTTTCAGTGGCGG--CCTCTACTTT	[15255]
Gga	GTACCTGCTGCCTACAA--AAGTAAGTGCTTCCATGTTTCAGTGGTGG--CCTCAACTTT	[13804]
Xtr	-----	[14197]
Lch	GTACATACTGTTGTGAACCTAAGTAAGTGCTTCCCTTGTTAGGGTAATGG-----	[15934]
Dre	-----	[14412]
Hsa	TAACATGG-AGGCACTTGCTGTGACATGACAAAAA--TAAGTGCTTCCATGTTTGAGT-G	[15604]
Mmu	TAACATGG-AGGCACTTGCTGTGCATTTAAAAA----TAAGTGCTTCCATGTTTGAGT-G	[15433]
Mdo	TAACATGG-AAGTGCTTGCTGTGATTTTAAAAAAT--TAAGTGCTTCCATGTTTGAGTTG	[14488]
Meu	TAACATGG-AGGTACTTTCTGTGATTTAAAAAAG--TAAGTGCTTCCATGTTTGGTAG	[12595]
Oan	TAACATGG-AGGTACTTGCTGTGAGTTTGAAAAAAT--TAAGTGCTTCCATGTTTGTAGTTG	[13357]
Aca	-----	[15307]
Pbi	-----	[15627]
Cpi	TAACATGG-AAGTACTTGCTGGATGCTTGAAAAAG--TAAGTGCTTCCATGTTTGTAGTTG	[16671]
Cmy	TAACATGG-AAGTACTTGCTGGATGCTTGAAAAAG--TAAGTGCTTCCATGTTTGTAGTTG	[16417]
Psi	TAACATGG-AAGTACTTGCTGGATGCTTGAAAAAG--TAAGTGCTTCCATGTTTGTAGTTG	[15038]
Asp	TAACATGG-AAGTACTTGCTGGATGCTTGAAAAAG--TAAGTGCTTCCATGTTTGTAGTTG	[14187]
Ami	TAACATGGGAGGTACTTGCTGGATGCTTGAAAAAG--TAAGTGCTTCCATGTTTGTAGTTG	[15912]
Asi	TAACATGGGAGGTACTTGCTGGATGCTTGAAAAAG--TAAGTGCTTCCATGTTTGTAGTTG	[15258]
Tgu	TAACATGG-AGGTACTTGCTGGATGCCT-AAAAAG--TAAGTGCTTCCATGTTTGTAGTTG	[12477]
Cli	TAACATGGGAGGTACTTGCTGGATGCCTAAAAAAG--TAAGTGCTTCCATGTTTGTAGTTG	[15313]
Gga	TAACATGG-AGGTACTTGCTGGACACCTGAAAAAG--TAAGTGCTTCCATGTTTGTAGTTG	[13861]
Xtr	-----	[14197]
Lch	-----	[15934]
Dre	-----	[14412]
Hsa	TGG--CTTGGAATGGCAAGGAAACCGTTACCATTACTGAGTTTAGTAATGGTAATGGTTT	[15662]
Mmu	TGG--CTTGGAATGGCGAGGAAACCGTTACCATTACTGAGTTTAGTAATGGTAACGGTT	[15491]
Mdo	TGG--GGGCAGCCTGGCGGGGAAACCGTTACCATTACTGTGTTTAGTAATGGTAAGGGTT	[14546]
Meu	GAG--ATGGAGCGTGGGAGGAAACCGTTACCATTACTGTGTTTAGTAATGGTAACGGTT	[12653]
Oan	AAG--CGAGGGTCTGGCGAGGAAACCGTTACCATTACTGAGTTTAGTAATGGTAACGGTT	[13415]
Aca	-----GACCGGTGTGTTGGCGAAACCGTTACCATTACTGAGTTTAGTAATGGTAAGGGTT	[15362]
Pbi	-----	[15627]
Cpi	TGG--CCATGGGGCGTCAATGAAACCGTTACCATTACTGACTTTAGTAATGGTAACGGTT	[16729]
Cmy	TGG--CCATGGAGTGTCAATGAAACCGTTACCATTACTGACTTTAGTAATGGTAACGGTT	[16475]
Psi	TGG-----	[15041]
Asp	TGG-----	[14190]
Ami	TGG-----	[15915]

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Asi TGG--CCCCGGGGCGTCGGGGAAACCGTTACCATTACTGAGTTTAGTAATGGTGACGGTT [15316]
Tgu TGG--CCCGCGCCCGGCGGGGAAACCGTTACCATTACTGAGTTTAGTAATGGTAACGGTT [12535]
Cli TGG--CCCGCGCCCGGCGGGGAAACCGTTACCATTACTGTGTTTAGTAATGGTAATGGTT [15371]
Gga TGG--CACATGGCTGGCAGGGAAACCGTTACCATTACTGAGTTTAGTAATGGTAACGGTT [13919]
Xtr -----CTGTAGAGTGGAATGAAACCGTTACCATTACTGAGTTTAGTAATGGTAAGGGTT [14252]
Lch -----TGGGGAAGTGCCAATCAAACCGTTACCATTACTGAATTTAGTAATGGTAAGGGTT [15989]
Dre -----ACAGAGAGAGGCGGCGAAACCGTTACCATTACTGAGTTTAGTAATGGTAAGGGTT [14467]

Hsa CTCTTGCTATACCCAGA--CCAGATCCTAGAACCCTATCAATATTGTCTCTGCTGTGTAA [15720]
Mmu CTCTTGCTGCTCCACA----- [15508]
Mdo CTCCCCTGCGCTGAGT--ATAGATCCATGAACCCTATCAATGTGGTCTCTGCTGTGTAC [14604]
Meu CTCTTGCTGCGCTTGGT--CCAGATCCTAGAACCCTATCGATATTGTCTCTGCTGTGTAC [12711]
Oan CTCTGGCTGGGCCACC--CCAGATCCTGGAACCCTATCGATATTGTCTCTGCTGTGTAA [13473]
Aca CTTCTATCACGCCGACT----- [15379]
Pbi ----- [15627]
Cpi CTACTGCCGCCCCAGCA----- [16746]
Cmy CTACTGCCACGCCAGCA----- [16492]
Psi ----- [15041]
Asp ----- [14190]
Ami ----- [15915]
Asi CTACCGCCGCTCGCCT----- [15333]
Tgu CTGCCGACGGCCGGCAA----- [12552]
Cli CTGCCGACGGCTGGGCG----- [15388]
Gga CTGCTGACAGCCAGGCA----- [13936]
Xtr CTGTTGCTGCTCTTCCA----- [14269]
Lch CTGTTGCTATTCCCACT--CCAGATCCTGGAACCCTATCAATGTTGCCTCTGCTGTGTAG [16047]
Dre CTGCTGCCTTTTCTCAA--CTAATTCTTGGGACCCTATCAGTATTGCCTCTGCTGTCCAC [14525]

Hsa ATAGTTCTGAGTAGTGCAATATTGCTTATAGGGTTTTGGTGTTTGG----- [15766]
Mmu ----- [15508]
Mdo ATAGCTGTAAGTAGTGCAATATTGCTTATAGGGTTTTAGTTTTTTGG----- [14650]
Meu ATAGCTGTGAGTAGTGCAATATTGCTTATAGGGTTTTAGTGTTTGG----- [12757]
Oan ATAGCTGTGAGTAGTGCAATATTGCTTATAGGGTTTTAGTGTTTGG----- [13519]
Aca -----AACTCTGAGGAT [15391]
Pbi -----AACTCTGAGGAT [15639]
Cpi -----AACCTTAAGGAA [16758]
Cmy -----AACCTTAAGGAA [16504]
Psi -----ACCCTTAAGGAA [15053]
Asp -----ACCCTTAAGGAA [14202]
Ami -----AACCTTAAGGAT [15927]
Asi -----AACCTTAAGGAT [15345]
Tgu -----AACCTTAAGGAT [12564]
Cli -----AACCTTAAGGAT [15400]
Gga -----AACCTTAAGGAT [13948]
Xtr -----AGCCTTAAGGAA [14281]
Lch ATGGCTGAGAGTAGTGCAATATTGCTTATAGGGTTTTAGTGTTTGG--ATCCTCAAAGAA [16105]
Dre TGTGTTTACAGAGTAGTGCAATATTGCTAATAGGGTTTTAGGTTTTAG--CATCTTGCAGGC [14583]

Hsa ----- [15766]
Mmu ----- [15508]
Mdo ----- [14650]
Meu ----- [12757]
Oan ----- [13519]
Aca AAGACCCTATCAATATTGCCTCTGCTTCTGTGCTGGATT--CAAGTAGTGCAATATTGCT [15449]
Pbi AAAACCCTATCAATATTGCCTCTGCTTCTTCACTCGGTC--TTAGTAGTGCAATATTGCT [15697]
Cpi GAGACCCTATCAATATTGCCTCTGCTTTTGTGATCAGG--GTAGTAGTGCAATATTGCT [16815]
Cmy GAGACCCTATCAATATTGCCTCTGCTTTTGTGATCAGG--GTAGTAGTGCAATATTGCT [16561]
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Psi GAGACCCTATCAATATTGCCTCTGCTTTTGTGATCAGG---GTAGTAGTGCAATATTGCT [15110]
Asp GAGACCCTATCAATATTGCCTCTGCTTTTGTGATCAGG---GTAGTAGTGCAATATTGCT [14259]
Ami AAGACCCTATCAATATTGCCTCTGCTTTTGTGATCAGG---GTAGTAGTGCAATATTGCT [15984]
Asi AAGACCCTATCAATATTGCCTCTGCTTTTGTGATCAGG---GTAGTAGTGCAATATTGCT [15402]
Tgu GAGACCCTATCAATATTGCCTCTGCTTTTGTGATCAGG---GTAGTAGTGCAATATTGCT [12621]
Cli GAGACCCTATCAATATTGCCTCTGCTTTTGTGATCAGG---GTAGTAGTGCAATATTGCT [15457]
Gga GAGACCCTATCAATATTGCCTCTGCTTTTGTGCTCAGG---GTAGTAGTGCAATATTGCT [14005]
Xtr GTGACCCTATCAATATTGCCTCTGCTTTTGTGCTCGGA---GTAGTAGTGCAATATTGCT [14338]
Lch AAGACCCTATCAATACTGCCTCTGCTTTTGTGAAATAGT---GGAGTAGTGCAATATTGCT [16162]
Dre GAGACCCTATCAATATTGCCTCTGCTTTTCTCACTGTTTATGGAGTAGTGCAATATTGCT [14643]

Hsa -----CCCTGGCGTGAGGGTATGTGCCCTTTGGACTACATCGT [15803]
Mmu -----CCCTGGTGTGAGCGTATGTGCCCTTTGGACTACATCGT [15545]
Mdo -----CCCTGGCGTGAGGGTATGTGCCCTTTGGACTACATCGT [14687]
Meu ----- [12757]
Oan ----- [13519]
Aca TATAGGGTCTTTTCTTTGGGG---CCCTGGCGTGAGGGTATGTGCCCTTTGGACTACATCGT [15507]
Pbi AATAGGGTCTTTTCTTTGGGG---CCCTGGTGTGAGGGTATGTGCCCTTTGGACTACATCGT [15755]
Cpi TATAGGGTCTTTTCTTTGGAG---CCCTGGTGTGAGGGTATGTGCCCTTTGGACTACATCGT [16873]
Cmy TATAGGGTCTTTTCTTTGGAG---CCCTGGTGTGAGGGTATGTGCCCTTTGGACTACATCGT [16619]
Psi TATAGGGTCTTTTCTTTGGAG---CCCTGGTGTGAGGGTATGTGCCCTTTGGACTACATCGT [15168]
Asp TATAGGGTCTTTTCTTTGGAG---CCCTGGTGTGAGGGTATGTGCCCTTTGGACTACATCGT [14317]
Ami TATAGGGTCTTTTCTTTGGAG---CCCTGGTGTGAGGGTATGTGCCCTTTGGACTACATCGT [16042]
Asi TATAGGGTCTTTTCTTTGGAG---CCCTGGTGTGAGGGTATGTGCCCTTTGGACTACATCGT [15460]
Tgu TATAGGGTCTTTTCTTTGGAG---CCCTGGTGTGAGGGTATGTGCCCTTTGGACTACATCGT [12679]
Cli TATAGGGTCTTTTCTTTGGAG---CCCTGGTGTGAGGGTATGTGCCCTTTGGACTACATCGT [15515]
Gga TATAGGGTCTTTTCTTTGGAG---CCCTGGTGTGAGGGTATGTGCCCTTTGGACTACATCGT [14063]
Xtr TATAGGGTCTTTTCTTTGAGA---CCCTGGCGTGAGGGTATGTGCCCTTTGGACTACATCGT [14396]
Lch TATAGGGTCTTTGAATTTGAGG---CCCTGGTGTGAGGGTATGTGCCCTTTGGACTACATCGT [16220]
Dre TATAGGGTCTTTGACTTTAAGG---CCCTGGTGTGAGGGTATGTGCCCTTTGGACTACATCGT [14701]

Hsa GGAAGCCAGCACCATGCAGTCCATGGGCATATACACTTGCCTCAAGG----- [15850]
Mmu GAACGC-AGCACCATGCAGTCCACGGGCATATACACTTGCCTCAAGG----- [15591]
Mdo GGAAGCCAACACCATGCAGTCCATGGGCATATACACTTGCCTCAAGG----- [14734]
Meu ----- [12757]
Oan ----- [13519]
Aca GGGAGCCAGCACCATGCAGTCCATGGGCATATACACTTGCCTCAAGG---TGTATGTGTGA [15565]
Pbi GGAAAATATCACCATGCAGTCCATGGGCATATACACTTGCCTCAAGG---TGTATGTGTGC [15813]
Cpi GGAAGCCAGCACCATGCAGTCCATGGGCATATACACTTGCCTCAAGG---TGTATGTGTGA [16931]
Cmy GGAAGCCAGCACCATGCAGTCCATGGGCATATACACTTGCCTCAAGG---TGTATGTGTGA [16677]
Psi GGAAACCAGCACCATGCAGTCCATGGGCATATACACTTGCCTCAAGG---TGCATGTGTGA [15226]
Asp GGAAACCAGCACCATGCAGTCCATGGGCATATACACTTGCCTCAAGG---TGCATGTGTGA [14375]
Ami GGAAGCCAGCACCATGCAGTCCATGGGCATATACACTTGCCTCAAGG---TGTATGTGTGA [16100]
Asi GGAAGCCAGCACCATGCAGTCCATGGGCATATACACTTGCCTCAAGG---TGTATGTGTGA [15518]
Tgu GGAAGCCAGCACCATGCAGTCCATGGGCATATACACTTGCCTCAAGG---TGTGTGTGTGA [12737]
Cli GGAAGCCAGCACCATGCAGTCCATGGGCATATACACTTGCCTCAAGG---TGCCTGTGTGA [15573]
Gga GGAAGCCAGCACCATGCAGTCCATGGGCATATACACTTGCCTCAAGG---TGCCTGTGTGA [14121]
Xtr GGAAGCCAGCACCATGCAGTCCATGGGCATATACACTTGCCTCAAGG---TGTGTGTGTGA [14454]
Lch GGAAGCCAGCACCATGCAGTCCATGGGCATATACACTTGCCTCAAGG---TGTGTGTGTGT [16278]
Dre GGAAGCCAGCACCATGCAGTCCATGGGCATATACACTTGCCTCAAGG---TGGTGTGTGT [14759]

Hsa ----- [15850]
Mmu ----- [15591]
Mdo ----- [14734]
Meu ----- [12757]
Oan ----- [13519]
Aca GCAGGCATCTTCTCAGCCTACATGTGGATTCCCTAAATCTGCAGGCTGGTTAGATGGTTGT [15625]

Pbi GCAGGCATCTTCTCAGCCTACATGTGGATTCTTAAATCTGCAGGCTGGTTAGATGGTTGT [15873]
Cpi GCAGGCATCTTTTCAGCCTACATGTGGATTCTTAAATCTGCAGGCTGGTTAGATGGTTGT [16991]
Cmy GCAGGCATCTTCTCAGCCTACATGTGGATTCTTAAATCTGCAGGCTGGTTAGATGGTTGT [16737]
Psi GCAGGCATCTTCTCAGCCTACATGTGGATTCTTAAATCTGCAGGCTGGTTAGATGGTTGT [15286]
Asp GCAGGCATCTTCTCAGCCTACATGTGGATTCTTAAATCTGCAGGCTGGTTAGATGGTTGT [14435]
Ami GCAGGCATCTTCTCAGCCTACATGTGGATTCTTAAATCTGCAGGCTGGTTAGATGGTTGT [16160]
Asi GCAGGCATCTTCTCAGCCTACATGTGGATTCTTAAATCTGCAGGCTGGTTAGATGGTTGT [15578]
Tgu GCAGGCATCTTCTCAGCCTACATGTGGATTCTTAAATCTGCAGGCTGGTTAGATGGTTGT [12797]
Cli GCAGGCATCTTCTCAGCCTACACGTGGATTCTTAAATCTGCAGGCTGGTTAGATGGTTGT [15633]
Gga GCAGGCATCTTCTCAGCCTACATGTGGATTCTTAAATCTGCAGGCTGGTTAGATGGTTGT [14181]
Xtr GCAGGCATCTTCTCAGCCTACATGTAGATTGTCAAATCTGCAGGCTGGTTAGATGGTTGT [14514]
Lch GCAGGCATCTTCCCAGCCTACATGTGGATTCTTAAATCTGCAGGCTGGTTAGATGGTTGT [16338]
Dre GCAGGCATCTTTCCAGTCTACATGTGGATCCAGGAGTCTGCAGGCTGGTTAGATGGTTGT [14819]

Hsa ----- [15850]
Mmu ----- [15591]
Mdo ----- [14734]
Meu ----- [12757]
Oan -----CTCGGTGCAGATGGCAGCGCCATTTTCAGAGCTATAAAACAGTATCATTG [13568]
Aca CATAcATTC--CATGGTGCAGATGGCAGCGCCATTTTCAGAGCTATAAAACACTCTCACTG [15683]
Pbi CATAcATTC--CATGGTGCAGATGGCAGCGCCATTTTCAGAGCTATAAAACAGTATCATTG [15931]
Cpi CATAcGTTC--CATGGTGCAGATGGCAGCGCCATTTTCAGAGCTATAAAACAGTATCATTG [17049]
Cmy CATAcGTTC--CATGGTGCAGATGGCAGCGCCATTTTCAGAGCTATAAAACAGTATCATTG [16795]
Psi CATAcGTTC--CATGGTGCAGATGGCAGCGCCATTTTCAGAGCTATAAAACAGTATCGTTG [15344]
Asp CATAcGTTC--CATGGTGCAGATGGCAGCGCCATTTTCAGAGCTATAAAACAGTATAGTTG [14493]
Ami CATAcATTC--CATGGTGCAGATGGCAGCGCCATTTTCAGAGCTATAAAACAGTATCATTG [16218]
Asi CATAcATTC--CATGGTGCAGATGGCAGCGCCATTTTCAGAGCTATAAAACAGTATCATTG [15636]
Tgu CATGCATTC--CGTGGTGCAGATGGCAGCGCCATTTTCAGAGCTATCAACAGTGTCAATTG [12855]
Cli CATGCATTC--CGTGGTGCAGATGGCAGCGCCATTTTCAGAGCTATAAAACAGTCTCAATTG [15691]
Gga CATGCATTC--CGTGGTGCAGATGGCAGCGCCATTTTCAGAGCTATAAAACAGCGTCAATTG [14239]
Xtr CATAcATTC----- [14523]
Lch CGTAcATTC--CGAGGTGCAGATGGCAGTGCATTTGCAAAGCTATAAAACAGTATCATTG [16396]
Dre CACGTAcCC--TGTGGTGCAGATAGCAGCGCCATTTACAGAGCTATAAAGCATCATAGTTG [14877]

Hsa -----TTATTTGCAGTCAGTAACAAAGA [15873]
Mmu -----TTATTTGCAATCAGTAACAAAGA [15614]
Mdo ----- [14734]
Meu ----- [12757]
Oan CCATAGCTCTTTGAATGGTACTGCCATATGTACTG--TTTCTTGCAGTCAGTAACAAAGA [13626]
Aca TCATAGCTCTTTGAATGGTACTGCCATATGTACCG----- [15718]
Pbi TCATAGCTCTTTGAATGGTACTGCCGTATGTACCG----- [15966]
Cpi TCATAGCTCTTTGAATGGTACTGCCATATGTACTG--TTTCTTGTAAATCAGTAACAAGGA [17107]
Cmy TCATAGCTCTTTGAATGGTACTGCCATATGTACTG--TTTCTTGTCAATCAGTAACAAGGA [16853]
Psi TCATAGCTCTTTGAATGGTACTGCCATATGTACTG--TTTCTTGTAAATCAGTAACCAGGA [15402]
Asp TCATAGCTCTTTGAATGGTACTGCCATATGTACTG--TTTCTTGTCAATCAGTAACCAGGA [14551]
Ami TCATAGCTCTTTGAATGGTACTGCCATATGTACTG--TTTCTTGTCAATCAGTAACAAGGA [16276]
Asi TCATAGCTCTTTGAATGGTACTGCCATATGTACTG--TTTCTTGTCAATCAGTAACAAGGA [15694]
Tgu TCATAGCTCTTTGAATGGTACTGCCATAAGCACTG----- [12890]
Cli TCATAGCTCTTTGAATGGTACTGCCATATGTACCG--GGTTTTGCAATCAGTAACAAGGA [15749]
Gga TCATAGCTCTTTGAATGGTACTGCCATATGTACTG--GGCTTTGCAGTCAGTAACGAGGA [14297]
Xtr -----TTTTTTGCTCTCAGTAACAACGA [14546]
Lch TCATAGCTCTTTGAATGGTACTGCCATATGTACTA----- [16431]
Dre TCATAGCTCTTTGAATGGTACTGCCATATGTACTG--CCTCTTGTCTCAGTAACAAGGA [14935]

Hsa TTCATCCTTGTGTCCATCATGCAACA--AGGAGAATCTTTGTCACTTAGTGTAATTAATA [15931]
Mmu TTCATCCTTGTGTCAATCATAACAACA--CGGAGAGTCTTTGTCACTCAGTGTAATTAATA [15672]
Mdo ----- [14734]

Meu	-----	[12757]
Oan	TTCATCCTTGTGTCTCTGTAAGCAACA--GGGAGGGTCTTTGTCACTGAGTGCAATTAATG	[13684]
Aca	-----	[15718]
Pbi	-----	[15966]
Cpi	TTCATCCTTGTGTATAGTAAATAACA--GGGAGAATCTTTGTCACTAAGTACAATTAACA	[17165]
Cmy	TTCATCCTTGTGTATAGTAAATAACA--GGGAGAATCTTTGTCACTAAGTACAATTAACA	[16911]
Psi	TTCAGCCTTGTGTATAATAATAACA--AGGAGAACCTTTGTCACTAAATGCAAATAAAA	[15460]
Asp	TTCATACTCATGTATAATAATAACA--GGGAGAACCTTTGTCACTAAATGCAAATAAAA	[14609]
Ami	TTCATCTCTGTATTGTGTGAAGAACA--GAGAGAGTCTTTGTAACTAAGTGCAAGTAATA	[16334]
Asi	TTCATCTCTGTATTGTGTGAAGAACA--GAGAGAGTCTTTGTAACTAAGTGCAAGTAATA	[15752]
Tgu	-----	[12890]
Cli	TTCATCCTCGTTTCTGGCAAATAACG--GGGAGAATCTTTGTCACTAAGTACAATTAATA	[15807]
Gga	TTCATCCTTGTGTCCAGCAAATAACA--GGGAGAATCTTTGTACTATGTGCAATTAACA	[14355]
Xtr	TTCAGCCTTGTGCATTA-TATATAACC--AAGGGGATCTTTGTCACTAAGTGCAATTAATA	[14603]
Lch	-----	[16431]
Dre	TTCATCCTGTTGTGGTACTCAAATCCAACAGGGAATCTCTGTTACTGGGGTTAAGGTTCA	[14995]
Hsa	GC-----	[15933]
Mmu	GC-----	[15674]
Mdo	----TG-ACCTTTATAGAACCTGCATTGTACACACTGTGTGTTTTCA-TTCCCATGCACAG	[14788]
Meu	----TG-ACCTTTATAGAACCTGCATTGTACACACTGTGTGTTTTCA-CTACTATGCACAG	[12811]
Oan	GT--TG-ACTGTATAGAACCTGCATTGTACACACTGTGTGTCTCGCTCTCTGCA-CACAG	[13740]
Aca	----TG-ACCTTATAGGACCTGCATTGTACACACTGTGTGTATGGACTGGAGGTGCACAG	[15773]
Pbi	-----	[15966]
Cpi	GC--TG-ACCTTTATAGAACCTGCATTGTACACACTGTGTGTATTGATTGGACATGCACAG	[17222]
Cmy	GC--TG-ACCTTTATAGAACCTGCATTGTACACACTGTGTGTATTGATTGGACATGCACAG	[16968]
Psi	GC--TG-ACCTTTATAGAACCTGCATTGTACACACTGTGTGTATTGATGGACATGCACAG	[15517]
Asp	GC--TG-ACCTTTATAGAACCTGCATTGTACACACTGTGTGTATTGATGGACATGCACAG	[14666]
Ami	GC--TG-ACCTTTATAGGACCTGCATTGTACACACTGTGTGTATTGACTGGGCGTGCACAG	[16391]
Asi	GC--TG-ACCTTTATAGGACCTGCATTGTACACACTGTGTGTATTGACTGGGCGTGCACAG	[15809]
Tgu	----TG-ACCTTTATAGCACCTGCATTGTACACACTGTGTGTGTGG-CTGGAAATGCACAG	[12944]
Cli	GC--TG-ACCTTTATAGCACCTGCATTGTACACACTGTGTGTATTGACTGGAAATGCACAG	[15864]
Gga	GC--TG-ACTATATAGCACCTGCATTGTACACACTGTGTGTGTTAACTGGAAATGCACAG	[14412]
Xtr	GC--TG-GCTTTATAGAGCCTGCATTGTACACACTGTGTGTGCACCTCAGACTTGCACAG	[14660]
Lch	----TG-GCTTTATAGCGCCTGCATTGTACACACTGTGTGTATTGATTTGGTGTACACAG	[16486]
Dre	GA--TGGACTCCTCGGCTCCTGCATTGTACACACTGTGCGGAACACATGGACATGCACAG	[15053]
Hsa	-----	[15933]
Mmu	-----	[15674]
Mdo	CGCATACAATGTGGATACTATAAGAGTC-----	[14816]
Meu	CGCATACAATGTGGATACTATAAGAGTC-----	[12839]
Oan	CGCGTACAATGTGGATACTATAGAAGTC-----	[13768]
Aca	CGCATACAATGTGGATGCTATAGAAGTC--GGACTCCATCTTGCCCTCATTGTACATGCT	[15831]
Pbi	-----	[15966]
Cpi	CGCATACAATGTGGATACTGTAGACGTC--TGGCTCTATGTTGTCCTCATTGTACATGCT	[17280]
Cmy	CGCATACAATGTGGATACTGTAGAAGTC--TGGCTCTATGTTGTCCTCATTGTACATGCT	[17026]
Psi	CGCATACAATGTGGATACTGTATAAGTC--TGTCTCTATGCGGTCTCATTGTACATGCT	[15575]
Asp	CGCATACAATGTGGATACTGTAGAAGTC--TGGCTCTATGCGGTCTCATTGTACATGCT	[14724]
Ami	CGCATACAATGTGGATACTGTAGAAGTC--TGGCTCTATGTTGTCCTCATTGTACATGCT	[16449]
Asi	CGCATACAATGTGGATACTGTAGAAGTC--TGGCTCTATGTTGTCCTCATTGTACATGCT	[15867]
Tgu	CGCATACAATGTGGATTCTGTACAAGTC--TGGCTCTATCGTGCCCTCATTGTACATGCT	[13002]
Cli	CGCATACAATGTGGATTCTGTAGAAGTC--TGGCTCTATAGTGTCTCATTGTACATGCT	[15922]
Gga	CGCATACAATGTGGATTCTGTAGAAGTC--TGGCTCTACGTTGTCCTCATTGTACATGCT	[14470]
Xtr	CGCATACAATGTGGATGCTATATGAGTC--TGA CTCTACATTGTCCTCATTGTACATGCT	[14718]
Lch	CGCATACAATGTGGATACTGTAAAAGGC--TGGCTCTACATTGTCCTCATTGTACATGCT	[16544]
Dre	CGCATACAATGTGGATGCTGTGGAGCCC--GGGTTCTCCGGTCTCCTCATTGTGCATGCT	[15111]

Hsa	-----GTGG	[15937]
Mmu	-----GTGG	[15678]
Mdo	-----	[14816]
Meu	-----	[12839]
Oan	-----	[13768]
Aca	GTGTGTATTTCCTTTGGCGT-ACACAGCGCATGCAATGTGGACAGGAGGGAGGCC--GTGA	[15888]
Pbi	-----GTGA	[15970]
Cpi	GTGTGTATTTTTATTACAT-ACACAGCGCATGCAATGTGGACATAAATGGAGATC--GTGG	[17337]
Cmy	GTGTGTATTTTTATTACAT-ACACAGCGCATGCAATGTGGACATAAATGGAGATC--GTGG	[17083]
Psi	GTGTGTATCTTTATTACAT-ACACAGCGCATGCAATGTGGACATCATGGAGATC--GTGG	[15632]
Asp	GTGTGTATCTTTATTACAT-ACACAGCGCATGCAATGTGGACATCATGGAGATC--GTGG	[14781]
Ami	GTGTGTATATTTATGACGT-ACACAGCGCATGCAATGTGGACAGAATGGAGACC--GTGG	[16506]
Asi	GTGTGTATATTTATGACGT-ACACAGCGCATGCAATGTGGACGTAATGGAGACC--GTGG	[15924]
Tgu	GTGTGAAT--TTGTACAT-ACACAGCGCATGCAATGTGGACATAAATGGAGCTC--GTGG	[13057]
Cli	GTGTGTAT--TTGTACGT-ACACAGCGCATGCAATGTGGACATAAATGGAGCTC--GTGG	[15977]
Gga	GTGTGTAT--TTGCCACGT-ACACAGCGCATGCAATGTGGACATAAATGGAGCTC--GTGG	[14525]
Xtr	GTGTGTATCTATTTCTCTT-ACACAGCGCATGCAATGTGGATATATTGGATGTC--GTGG	[14775]
Lch	GTGTGTAT-TCCATTACAT-ACACAGCGCATAACAATGTGGATATCGTCGAGACC--GTGG	[16600]
Dre	GTGTGTCTTCAGTCTGGTCCTCACAGCGCCTGCAATGTGGAGGCTAGGGGACTC--GTGG	[15169]
Hsa	CAGCTTGGTGGTTCGTATGTGTGACGCCATTTACTTGAACC-TTTAGGAGTGACATCACAT	[15996]
Mmu	CAGCTTGGTGGTTCATATGTGTGATGACACTTTCTAAAGTC-TTCCAGAATGACACCACAT	[15737]
Mdo	-----	[14816]
Meu	-----	[12839]
Oan	-----	[13768]
Aca	TGGCTTGGTGGTTCGTATGTATGACGTCATTTACTTGTCT-TTTAGGAGTGACATCATAT	[15947]
Pbi	TGGCTTGGTGGTTCGTATGTATGACGTCATTTACTTGTACT-TTTAGGAGTGACATCTTAT	[16029]
Cpi	TGGCTTGGTGGTTCGTATGTATGACGTCATTTACTTGGACT-TTTAGGAGTGACATCATAT	[17396]
Cmy	TGGCTTGGTGGTTCGTATGTATGACGTCATTTACTTGGACT-TATAGGAGTGACATCATAT	[17142]
Psi	TGGCTTGGTGGTTCGTATGCATGACGTCATTTACTTGGACT-TTTAGGAGTGACATCATAT	[15691]
Asp	TGGCTTGGTGGTTCGTATGCATGACGTCATTTACTTGGACT-TTTAGGAGTGACATCATAT	[14840]
Ami	TGGCTTGGTGGTTCGTATGTATGACGTCATTTACTTGGACT-TTTAGGAGTGACATCATAT	[16565]
Asi	TGGCTTGGTGGTTCGTATGTATGACGTCATTTACTTGGACT-TTTAGGAGTGACATCATAT	[15983]
Tgu	TGGCTTGGTGGTTCGTATGTATGACGTCATTTACTTGGACT-TTTAGGAGTGACATCATAT	[13116]
Cli	TGGCTTGGTGGTTCGTATGTATGACGTCATTTACTTGGACT-TTTAGGAGTGACATCATAT	[16036]
Gga	TGGCTTGGTGGTTCGTATGTATGACGTCATTTACTTGGACT-TTTAGGAGTGACATCATAT	[14584]
Xtr	TGGCTTAGTGGTTCGTATGTATGACGTCATTTACTGGATTT-TTTAGGAGTGACATCATAT	[14834]
Lch	TGGCTTGGTGGTTCGTATGTATGACGTCATTTACTTGGACT-TTTAGGAGTGACATCATAT	[16659]
Dre	TGGCTTGGTGGTTCGTATGTATGACGTCATTTACTTCAAAG-TTT-GGAGTGACATCATAT	[15227]
Hsa	ATACGGCAGCT-AAACTGCTAC--GCGGGCGGCTGTTAAGACTTGCAGTGATGTTTAACT	[16053]
Mmu	ATATGGCAGCT-AAACTGTTAC--GTGGGCAGCTGTTAAGACTTGCAGTGATGTTTAGCT	[15794]
Mdo	-----	[14816]
Meu	-----	[12839]
Oan	-----GGGGCAGCGGTTAAGACTTGTAGTGATGTTTAGCT	[13804]
Aca	GTACGGCTGCT-AAACTGCCAC--GGGGGAGGCAGTTAAGACTTGCAGTGATGTTTAGAA	[16004]
Pbi	GTACGGCTGCT-AAACTGCCAC--GGGAGAGGCAGTTAAGACTTGCAGTGATGTTTAGAT	[16086]
Cpi	GTACGGCTGCT-AAACTGCTGC--GAGAGCGGCAGTTAAGACTTGCAGTGATGTTTAGAT	[17453]
Cmy	GTACGGCTGCT-AAACTGCTGC--GAGAGCGGCAGTTAAGACTTGCAGTGATGTTTAGAT	[17199]
Psi	GTACGGCTGCT-AAACTGCTGC--GAGAGCGGCGGTTAAGACTTGCAGTGATGTTTAGCT	[15748]
Asp	GTACGGCTGCT-AAACTGCTGC--GAGAGCGGCAGTTAAGACTTGCAGTGATGTTTAGAT	[14897]
Ami	GTACGGCTGCT-AAACTGCTGC--GAGAGCGGCAGTTAAGACTTGCAGTGATGTTTAGAT	[16622]
Asi	GTACGGCTGCT-AAACTGCTGC--GAGAGCGGCAGTTAAGACTTGCAGTGATGTTTAGAT	[16040]
Tgu	GTACGGCTGCT-AAACTGCTGC--GAGAGCGGCAGTTAAGACTTGTAGTGATGTTTAGAT	[13173]
Cli	GTACGGCTGCT-AAACTGCTGC--GAGAGCGGCAGTTAAGACTTGTAGTGATGTTTAGAT	[16093]
Gga	GTACGGCTGCT-AAACTGCTGC--GGGAGCGGCAGTTAAGACTTGTAGTGATGTTTAGAT	[14641]
Xtr	GTACGGCTGCT-AAACTGCTGC--GAGCGAGGCAGTTAAGACTTGCAGTGATGTTTAGTT	[14891]

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Lch GTACGGCTGCT-AAACTGCTAC--GAGAGAGGCAGTTAAGACTTGCAGTGATGTTTAGAA [16716]
Dre GTACGGCTGCT-AAACTGCTAC--GAGGGAGGCAGTTAAGACTTGCAGTGATGTTTAGAG [15284]

Hsa CCTCTCC--ACGTGAACATCACAGCAAGTCTGTGCTG-C TTCCCGTCC--TGACCCTGGA [16108]
Mmu CCTCTGC--ATGTGAACATCACAGCAAGTCTGTGCTG-CTGCCTGCC----- [15839]
Mdo -----TGACCCTGGA [14826]
Meu -----TGACCCTGGA [12849]
Oan CATCTCC--ACGTGAACATCACTGCAAGTCTGTGCTG-C TTCTCCCT----- [13849]
Aca AATTTACT-ACATGAACATCACTTTAAGTCTGTGCTA-C TTCTTCTCCT----- [16050]
Pbi AATTTATT-ACATAAACATCACTTTAAGTCTGTGCTA-T TTCTCTCCT--TCACCTGGGA [16142]
Cpi AATGTATT-ACATGAACATCACTTTAAGTCTGTGCTA-C CTCTCTCCT--TGACCTTGGA [17509]
Cmy AATGTATT-ACATGAACATCACTTTAAGTCTGTGCTA-C CTCTCTCCT--TGACCTTGGA [17255]
Psi AATGTATT-ACATGAACATCACGGTGAGTCTGTGCTA-C CTCTCTCCT--TAATCTTAGA [15804]
Asp AATGTATT-ACATGAACATCACTTTAAGTCTGTGCTA-C TTCTCTCCT--TAATCTTAGA [14953]
Ami AATGTATT-ACATGAACATCACTTTAAGTCTGTGCTA-C TTCTCTCCT--TAACCTTGGA [16678]
Asi AATGTATT-ACATGAACATCACTTTAAGTCTGTGCTA-C TTCTCTCCT--TAACCTTGGA [16096]
Tgu AATTAATT-ACATGAACATCACTTTAAGTCTGTGCTA-C TTCTCTCCT----- [13219]
Cli AATGTATT-ACATGAACATCACTTTAAGTCTGTGCTA-C TTCTCTCCT--TGACCTTGGA [16149]
Gga AATGTATT-ACATGAACATCACTTTAAGTCTGTGCTA-C TTCTCTCCT----- [14687]
Xtr AAAATCTTTTCATGAACATCACTTTAAGTCTGTACTG-C TTCTCCCTC--TGACCTTGGA [14948]
Lch AATTCAA-TCATGAACATCACTTTAAGTCTGTGCTA-C TTCTTTTCT--AGGCCTAGGA [16772]
Dre AAATGTC--ACATGAACATCACTTTAAGTCTGTGCTGGCTCCTGTTCT----- [15330]

Hsa AATCCAGAGTGGGTGGGGCCAGTCTGACCGTTT-CTAGGCGACCCACTCTTGGTTTCCAG [16167]
Mmu ----- [15839]
Mdo AATCCAGAAGGGGTGGAGCCTGTTGGACAGTTT-CTAGGCGACCCATTCTTGGTTTCAAG [14885]
Meu AATCCAGAAGGGGTGGAGCCTGTTGGACAGTTT-CTAGGCGACCCATTCTTGGTTTCAAG [12908]
Oan ----- [13849]
Aca ----- [16050]
Pbi AATCAAGAATGGGTGGGGCCTGTGAATATGAGA-GGAGGCGACCCACTCTTGGTTTCCAA [16201]
Cpi AATCAAGAATGGGTGGAGCCTGTTGAATTAATT-CTAGGCGACCCATACTTGGTTTCAAG [17568]
Cmy AATCAAGAATGGGTGGAGCCTGTTGAATTAATT-CTAGGCGACCCATACTTGGTTTCAAG [17314]
Psi AATCAAGAATGGGTGGAGCCTGTTAAATTAATT--TTAGGCGACCCATACTTGGTTTCAAG [15862]
Asp AATCAAGAATGGGTGTAGCCTGTTAAATTAATT--TTAGGCGACCCATACTTGGTTTCAAG [15011]
Ami AATCAAGGATGGGTGAAGCCTGTTGGAATAACT-CTAGGCGACCCATACTTGGTTTCAAG [16737]
Asi AATCAAGGATGGGTGAAGCCTGTTGGAATAACT-CTAGGCGACCCATACTTGGTTTCAAG [16155]
Tgu ----- [13219]
Cli AATCAAGTGTAGGTGGAGCCTGTGGCAGCGAT--CAAGGCGACCCACACTTGGTTTCAAG [16207]
Gga ----- [14687]
Xtr AACCAAGAGTGGGTGGGCCTGTTAGATCAC---ATAGGCGACCCATACTTGGTTTCAAG [15005]
Lch GATCAAGTGTGGGTGAAGCCTGTAGAGATTGTTGCTAGGCGACCCATACTTGGTTTCAAG [16832]
Dre ----- [15330]

Hsa GGTTCGCCCTG--TGGCCCATGAAATCAAGCGTGGGTGAGACCTGGTGCAGA-ACGGAAG [16224]
Mmu -----TGGCCCATGAAATCAAGCTTGGGTGAGACCTGGTGCAGA-ACAGGAAG [15886]
Mdo GGTTCGCCATG--TGGCCCCAGAAATCAAGGATGGGTGAGACCTCGTGTGCAAACCTGAAAG [14943]
Meu GGTTCGCCATG--TGGCCCCAGAAATCAAGGATGGGTGAGACCTCGTGTGCAAACCTGAAAG [12966]
Oan -----TGGCCCCAGAAATCAAGGATGGGTGAGACCTCTTGACA-AGTGGAAG [13896]
Aca -----TGGCTCCAGAAATCAAGGTGGGTGAGACCTCGTGAACAGACTGGAAG [16098]
Pbi GGTCAGCAGG--TGGCTCCAGAAATCAAGGCTGGGTGAGACCTCGTGAAGAAACCTAGAAG [16259]
Cpi GGTCAGCAGG--TGGCTCCAGAAATCAAGGGTGGGTGAGACCTCGTAAGAAAACGTGAAG [17626]
Cmy GGTCAGGAGG--TGGCTCCAGAAATCAAGGGTGGGTGAGACCTCGTAAGAAAACGTGAAG [17372]
Psi GGTAAACAGG--TGGCTCCAGAAATCAAGAATGGGTGAGACCTCGTAAGAAAACATGAAG [15920]
Asp GGTAAACAGG--TGGCTCCAGAAATCAAGAGTGGGTGAGACCTCGTAAGAAAACATGAAG [15069]
Ami GGTCAGCAGG--TGGCTCCAGAAATCAAGGGTGGGTGAGACCTCGTAAGAACAGTTGAAG [16795]
Asi GGTCAGCAGG--TGGCTCCAGAAATCAAGGGTGGGTGAGACCTCGTAAGAACAGTTGAAG [16213]
Tgu -----TGGCTCCAGAAATCAAGGGTGGGTGAGACCTGGTGCAGAACTCTAAG [13267]
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Cli	GGTCCGCAGG--TGGCTCCAGAAATCAAGGGTGGGTAAGACCTCGTCAGCAAAGTTTAAAG	[16265]
Gga	-----TGGCTCCAGAAATCAAGGGTGGGTAAGACCTTGTAGGATAACTGGCAG	[14735]
Xtr	GGTTAGCAGG--TGACCTTAGAAATCAAGCTTGGGTTAGACCTGGTTCTTATACTGAG	[15063]
Lch	GGCCGGTGGG--TTGCCCCAGAAATCAAGGATGGGTGAGACCTCGTAATGAACGATGAAG	[16890]
Dre	-----	[15330]
Hsa	GCGACCCATACTTGGTTTTCAGAGGCTGTGAGA-----	[16256]
Mmu	GCGACCCATACTTGGTTTTCAGTGGCTGCAAGA-----	[15918]
Mdo	GCGACCCATACTTGGTTTTCAGGGGCTTCGAGA-----	[14975]
Meu	GCGACCCATACTTGGTTTTCAGGGGCTTCGAGA-----	[12998]
Oan	GCGACCCATACTTGGTTTTCAGGGGCTTCCGGA-----	[13928]
Aca	GCGACCCATACTTGGTTTTCAGGAGCTTCGAGG--GGGCGCTCGTCAGGAATTCCGCTAGT	[16156]
Pbi	GCGACCCATACTTGGTTTTCAGGAGCTGTGAGG-----	[16291]
Cpi	GCGACCCATACTTGGTTTTCAGGGGCTGTGAGG--GGGCGTTCACCAGGAATTCCGCTAGT	[17684]
Cmy	GCGACCCATACTTGGTTTTCAGGGGCTGTGAGG-----	[17404]
Psi	GCGACCCATACTTGGTTTTCAGGGGCTGTGAGG-----	[15952]
Asp	GCGACCCATACTTGGTTTTCAGGGGCTGTGAGG-----	[15101]
Ami	GCGACCCATACTTGGTTTTCAGGGGCTTTGAGG-----	[16827]
Asi	GCGACCCATACTTGGTTTTCAGGGGCTTTGAGG-----	[16245]
Tgu	GCGACCCATACTTGGTTTTCAGGGGCTGTGGGC-----	[13299]
Cli	GCGACCCATACTTGGTTTTCAGGGGCTGTGTGG--GGCCGTGCGGCCGGAATTCCGCTAGT	[16323]
Gga	GCGACCCATACTTGGTTTTCAGGGGCTGTGTGG-----	[14767]
Xtr	GCGACCCATACTTGGTTTTCTGAGGCTGAAGTG--GGGTGCTTGTTCAGGAATTCCGCTAGT	[15121]
Lch	GCGACCCATTCTTGGTTTTCAGGGACCTTGGTG-----	[16922]
Dre	-----CTACTAGCAGAAGGAATTCCGCTAGT	[15356]
Hsa	-----	[16256]
Mmu	-----	[15918]
Mdo	-----	[14975]
Meu	-----	[12998]
Oan	-----	[13928]
Aca	TCTGAACTATTTTACAGTTAGAAAAA----GTTCACTACTAGCAGAACTCGGCCGCGCGC	[16211]
Pbi	-----	[16291]
Cpi	TCTGAACTATTTTACACTTGAAAAA----GTTCACTACTAGCAGAACTCGGGTGC	[17739]
Cmy	-----	[17404]
Psi	-----	[15952]
Asp	-----	[15101]
Ami	-----	[16827]
Asi	-----	[16245]
Tgu	-----	[13299]
Cli	TCTGAACTTTTTTCTGAAAAA-----GCTCACTACTGGCAGAACTCGGCCGCGCGC	[16381]
Gga	-----	[14767]
Xtr	TCTGAACTATT--CCATGTTAGTAAGTAAAAGTTCACTACTAGCAGAACTCGGCCACGTAC	[15180]
Lch	-----	[16922]
Dre	TCTGAACTATT--CGTGATTGGCAAAA----GTTCACTACTAGCAGAACTCGGATATACAA	[15411]
Hsa	-----	[16256]
Mmu	-----	[15918]
Mdo	-----	[14975]
Meu	-----	[12998]
Oan	-----	[13928]
Aca	--CTACTCTGCTGTTGTTTTTTTAGGTTTTGATTTTTTATGCCATCCTCATGCGAAAAATCA	[16269]
Pbi	--CTACTCTGCTGTTGTTTTTTTAGGTTTTGATTTTTTATGCCATGCTCATGTGAAAAATCA	[16349]
Cpi	--CTACTCTGCTGTTATTTTTTTTAGGTTTTGATTTTTTATTACATCTTCATGCGAAAAATCA	[17797]
Cmy	--CTACTCTGCTGTTATTTTTTTTAGGTTTTGATTTTTTATTACATCTTCATGCGAAAAATCA	[17462]
Psi	--CTACTCTGCTGTTATTTTTTTTAGGTTTTGATTTTTTATTACATCTTCATGAGAAAAATCA	[16010]
Asp	--CTACTCTGCTGTTATTTTTTTTAGGTTTTGATTTTTTATTACATCTTCATGCGAAAAATCA	[15159]

Ami	--CTACTCTGCTGTTATTTTTTTTAGGTTTTGATTTTTTATTGCATCTTCATGCGAAAATCA	[16885]
Asi	--CTACTCTGCTGTTATTTTTTTTAGGTTTTGATTTTTTATTACATCTTCATGCGAAAATCA	[16303]
Tgu	-----	[13299]
Cli	--TGGTTTTGGGTTGAGTTTTTTTTAGGTTTTGATTTTTTATTACATCTTTGTACAAAAATCA	[16439]
Gga	-----	[14767]
Xtr	-----	[15180]
Lch	--CTGCTCTGCTGTAGTTTTTTTTAGGTTTTGATTTTTTATTATGTCTGTGCAGGAAAATCA	[16980]
Dre	--CTGCTGTGCTGTTGTTTTTTTTAGGTTTTGATTTTTTGTGAAATGTCGATGAGAAAATCA	[15469]
Hsa	-----TTAGTGGTACTATAACCTCAGTTTTATCA	[16284]
Mmu	-----TCTGTGGTACTATAACCTCAGTTTTATCA	[15946]
Mdo	-----TCTGTGGTACAATACCTCAGTCTTATCA	[15003]
Meu	-----	[12998]
Oan	-----TTAGTGGTACAATACCTCAGTCTTATCA	[13956]
Aca	AAACCTAAAGAAAATGCTGCAAAGATAGAT--TTAGTGGTACAATACCTCAGCCTTATCA	[16327]
Pbi	AAACCTAAAGAAAATGCTGCAAAGATAGAT--TTAGTGGTACAATACCTCAGCCTTATCA	[16407]
Cpi	AAACCTAAAGAAAATGCTGCAAAGATAGAT--TTAGTGGTACAATACCTCAGTCTTATCA	[17855]
Cmy	AAACCTAAAGAAAATGCTGCAAAGATAGAT--TTAGTGGTACAATACCTCAGGCTTATCA	[17520]
Psi	AAACCTAAAGAAAATGCTGCAAAGATAGAT--TCAATGGTACAATACCTCAGTCTTATCA	[16068]
Asp	AAACCTAAAGAAAATGCTGCAAAGATAGAT--TAAATGGTACAATACCTCAATCTTATCA	[15217]
Ami	AAACCTAAAGAAAATGCTGCAAAGATAGAT--TTAGTGGTACAATACCTCAGTCTTTTCA	[16943]
Asi	AAACCTAAAGAAAATGCTGCAAAGATAGAT--TTAGTGGTACAATACCTCAGTCTTTTCA	[16361]
Tgu	-----TAAGTGGTACAATATCTCAATTTTTTCCA	[13327]
Cli	AAACGTAAAGAAAATGCTGCAAAGATAGAT--TTAGTGGTACAATACCTCAGTCTTTTTCG	[16497]
Gga	-----CTAGTGATAACAATAACTCAGTATTTTCT	[14795]
Xtr	-----	[15180]
Lch	AAACCTAAAGAAAATGCTGCAAAGATAGAC--TTAGCGGTACAATACCTCAGTCTTTTCA	[17038]
Dre	AAACCTAAAGAAAATACTGCGCAGATAGAT-----	[15499]
Hsa	GGTGTTC--TTAAAA--TCACCTGGAAACACTGAGGTTGTGTCTCACTGAAC--TGAGCAG	[16339]
Mmu	GGTGTTCATTTAAAA--TCACCTGAAAATACTGAGGCTATGTTTCACTGAGC--TGAACAG	[16002]
Mdo	GGTGTTAATTTAAAA--TCACCTGGAAATGCTGAGGTTGCGTTTCACTGAAC--CGAAGAG	[15059]
Meu	-----CAAAGAG	[13005]
Oan	GGTGTTCCTTTCAAT--TCACCTGGCAATACTGAGGTTGTGTCTCACTGAAC-----	[14005]
Aca	GGTGTGTATATAT--TCACCTGGAAGTACTGAGGTTGAGTTTCACTGAAC--TGAACAG	[16383]
Pbi	GGTGTATATATATATATTCACCTGGAAGTCTGAGGTTGAGTTTCACTGAAC--TGAACAG	[16465]
Cpi	GGTGTTCATAAAAT--TCACCTGCAAAAACACTGAGGTTGAGTTTCACTGAAC--TGAACAG	[17911]
Cmy	GGTGTTCGTAAAT--TCACCTGGAAAAACTGAGGTTGAGTTTCACTGAAC--TGAACAG	[17576]
Psi	GGTGTTCATAAAAT--TCACCTTGAAAAACTGAGGTTGAGTTTCACTGAAC--TGAACAG	[16124]
Asp	GGTGTTCATAAAAT--TCACCTTGAAAAACGAGGTTGAGTTTCACTGAAC--TGAACAG	[15273]
Ami	GGTGTTCATAAAAA--TCACCTGGAAATATTGAGGTTGAGTTTCACTGAAC--TGAACAG	[16999]
Asi	GGTGTTCATAAAAA--TCACCTGGAAATATTGAGGTTGAGTTTCACTGAAC--TGAACAG	[16417]
Tgu	GATGTTCATAAAAT--TTGCCTGGAAATACCTAGGTGAAGTTTCACTGAAC-----	[13376]
Cli	GATGTTCATAAAAT--TCACCTGGAAATACTGAGGTTGCGTTTCACTGAAC--CGAACAG	[16553]
Gga	GTTGGACTAGAAAT--TCACCTGGAAATACCAAGGTTGAGTTGCACTGAAC--TGAACAG	[14851]
Xtr	-----AGAAGAG	[15187]
Lch	GGTGTTCATACAT--TCACCTGTAAGTACTGAGGTTATGTTCCACTGAAC--TCAACAG	[17094]
Dre	-----TAAAGCA	[15506]
Hsa	TCTCCACCACCTCCCCTGCAAACGTCCAGTGGTGCAGAGGTAATGGACGTTGGCTCTGGT	[16399]
Mmu	TCTCCACCACCTCCCCTGCAAACGTCCAGTGCAGAGGTAATGGACGTTGGCTCTGGT	[16062]
Mdo	CCTCCACCACCTCCCCTGCAAACGTCCAGTGCAGAGGTAATGGACGTTGGCTCTGGT	[15119]
Meu	CCTCCACCAGCTCCCCTGCAAAGTCCAGTGCAGAGGTAATGGATGTTGGCTCTGGT	[13065]
Oan	-----	[14005]
Aca	CCTCCACCACCTCCCCTGCAAACGTCCAGTGCAGAGGTAATGGACGTTGGCTCTGGT	[16443]
Pbi	CCTCCACCACCTCCCCTGCAAACGTCCAGTGCAGAGGTAATGGACGTTGGCTCTGGT	[16525]
Cpi	CCTCCACCACCTCCCCTGCAAACGTCCAGTGCAGAGGTAATGGACGTTGGCTCTGGT	[17971]

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Cmy CCTCCACCACCTCCCCTGCAAACGTCCAGTGACGCAGAGGTAATGGACGTTGGCTCTGGT [17636]
Psi CCTCCACCACCTCCCCTGCAAACGTCCAGTGATGCAGAGGTAATGGACGTTGGCTCTGGT [16184]
Asp CCTCCACCACCTCCCCTGCAAACGTCCAGTGACGCAGAGGTAATGGACGTTGGCTCTGGT [15333]
Ami CCTCCACCACCTCCCCTGCAAACGTCCAGTGACGCAGAGGTAATGGACGTTGGCTCTGGT [17059]
Asi CCTCCACCACCTCCCCTGCAAACGTCCAGTGACGCAGAGGTAATGGACGTTGGCTCTGGT [16477]
Tgu ----- [13376]
Cli CCTCCACCACCTCCCCTGCAAACGTCCAGTGACGCAGAGGTAATGGACGTTGGCTCTGGT [16613]
Gga CCTCCACCACCTCCCCTGCAAACGTCCAGTGACGCAGAGGTAATGGACGTTGGCTCTGGT [14911]
Xtr CCTCCACCACCTCCCCTGCAAACGTCCAGTGACGCAGAGGTAATGGACGTTGGCTCTGGT [15247]
Lch CCTCCACCACCTCCCCTGCAAACGTCCAGTGACGCAGAGCTAATGGACGTTGGCTCCGGT [17154]
Dre CCTCCACCACCTCCCCTGCAAACGTCCAGTGACGCAGAGGAAATGGACGTTAGCTCTGGT [15566]

Hsa GGTGATGGACAGTCCG----- [16415]
Mmu GGTGATGGACAGTCCG----- [16078]
Mdo GGTGCTGGACAGTCAG--GGTCTGGTTGTAGGGGTACAGTGATCAGGTTATGATGGATTT [15177]
Meu GGTGTTGGACAGTCAG----- [13081]
Oan -----AATCTGGTTGTAGGGGTACAGTGATCAGGTTACGATGGATTT [14047]
Aca GGTGATGGACAGTCAG--CATCGGACTGTAGGGGTACAGTGATCAGGTTACGATGGATTT [16501]
Pbi GGTGATGGACAGTCAG--CATCTGGTTGTAGGGGTACAGTGATCAGGTTACGACGGATTT [16583]
Cpi GGTGATGGACAGTCAG--AGTCTGGTTGTAGGGGATACAGTGATCAGGTTACGAGGGATTT [18029]
Cmy GGTGATGGACAGTCAG--AGTCTGGTTGTAGGGGATACAGTGATCAGGTTACGAGGGATTT [17694]
Psi GGTGATGGACAGTCAG--AGTCTGGTTGTAGGGGATACAGTGATCAGGTTACGAGGGATTT [16242]
Asp GGTGATGGACAGTCAG--AGTCTGGTTGTAGGGGATACAGTGATCAGGTTACGAGGGATTT [15391]
Ami GGTGATGGACAGTCAG--GGTCTGGTTGTAGAGATACAGTGATCAGGTTACGATG-ATTT [17116]
Asi GGTGATGGACAGTCAG--GGTCTGGTTGTAGAGATACAGTGATCAGGTTACGATG-ATTT [16534]
Tgu -----GGTCTGGTTGTAGAGATACAGTGATCAGGTTACGATGGATTT [13418]
Cli GGTGATGGACAGTCAG--GGTCTGGTTGTAGAGATACAGTGATCAGGTTACGATGGATTT [16671]
Gga GGTGATGGACAGTCAG--GGTCTGGTTGTAGAGATACAGTGATCAGGTTACGATGGATTT [14969]
Xtr GGTGATGGACAGTCAC--AATCTAGTTGTAGGGGTACAGTGATCAGGTTACGATGGATTT [15305]
Lch GGTGATGGACAATTTG--AATCTAGTTGTAGGGGTACAGTGACCAGGTTACGATGGATTT [17212]
Dre GGTGATGGACACCAAC----- [15582]

Hsa ----- [16415]
Mmu ----- [16078]
Mdo CTCAAGTAAGCACCTCGTAGCTTGGTCACGATATCCATATGACTCAGAT--AATGGAAGG [15235]
Meu ----- [13081]
Oan CTCAAGTAACAACCTCGTAGCTCGGTCACGATATCCATATGACTCGAAG--AGTGGGGGG [14105]
Aca CTCTAGTAACAGCCTCGTAGCTTGTATCACCATCTCCCTATGATTCAGAT--GGTGAGGAG [16559]
Pbi CTCTAGTAACAACCCCGTAGCTTGTATCACCATCTCCCTATGACTCAGAT--GCTGAGGAG [16641]
Cpi CTCAAGTAACAACCTCGTAGCTCGGTCACGATATCCCTATGACTTAGAT--AGTGAGGGG [18087]
Cmy CTCAAGTAACAACCTCATAGCTCGATCAGATATCCCTATGACTTAGAT--AGTGAGGGG [17752]
Psi CTCAAGTAACAACCTCGAAGCTCGATCAGATATCCCTATGACTTAGGT--AATGAGGGG [16300]
Asp CTCAAGTAACAACCTCGTAGCTCGATCAGATATCCCTATGACTTAGAT--AATGAGGGG [15449]
Ami CTCAAGTAACAACCTCGTAGCTTGTATCACAATATCCCTATGACTTAGAT--AGTGAGGGG [17174]
Asi CTCAAGTAACAACCTCGTAGCTTGTATCAGATATCCCTATGACTTAGAT--AGTGAGGGG [16592]
Tgu CTCAAGTAACAACCTCGTAGCTTGTATCAGATATCCCTATGACTTGAGA--AGTGAGGGG [13476]
Cli CTCAAGTAACAACCTCGTAGCTTGTATCAGATATCCCTATGACTTGAGA--AGCGAGAGG [16729]
Gga CTCAAGTAACAACCTCGTAGCTTGTATCAGATATCCCTATGACTTGAGA--AGCGAGGGG [15027]
Xtr CTGAAGTAACGGCCTCGTAACTTGGTCACCATATCCATATGACTCAGAT----- [15354]
Lch TACAAGAAAC---CTCGTAGCTTGGTCACGATATCCATATGACTTGGAT--ACTGAGTGG [17267]
Dre -----ATGAGCAGT [15591]

Hsa ----- [16415]
Mmu ----- [16078]
Mdo TGCATCTAGGACTGTCTAACCTGAGAATGGTGAA-TCTCAGGGTCAATCTCAGGTTTGTC [15294]
Meu ----- [13081]
Oan CGTGTCTAGGACTGTCTAACCTGAGAATGGTGATGTGTGAGGGTCAATCTCAGGTTTCGTC [14165]
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Aca TTTTTTGAGGACTGTCTAACCTGAGAATGGTGAATCATGAAGGTCAATCTCAGGTCCGTC [16619]
Pbi TGTTTCAAGGACTGTCTAACCTGAGAATGGTGAACAAAATGCTCAATCTCAGGTCCGTC [16701]
Cpi TGTTTCGAGGACTGTCTAACCTGAGAATGGTGAACATGAAGGTCAATCTCAGGTTCGTC [18147]
Cmy TGTTTCGAGGACTGTCTAACCTGAGAATGGTGAACATGAAGGTCAATCTCAGGTTCGTC [17812]
Psi TGTTTCGAGGACTGTCTAACCTGAGAATGGTGAACATGAAGGTCAATCTCAGGTTCGTC [16360]
Asp TGTTTCGAGGACTGTCTAACCTGAGAATGGTGAACATGAAGGTCAATCTCAGGTTCGTC [15509]
Ami CGTCCCCAGGACTGTCTAACCTGAGAATGGTGAACACGAGGGTCAATCTCAGGTTCGTC [17234]
Asi CGTCCCCAGGACTGTCTAACCTGAGAATGGTGAACACGAGGGTCAATCTCAGGTTCGTC [16652]
Tgu CACCTCGAGGACTGTCTAACCTGAGAATGGTGAACATCAAGGTCAATCTCAGGTTCGTC [13536]
Cli CACCTCGAGGACTGTCTAACCTGAGAATGGTGAACATGTAAGGGTCAATCTCAGGTTCGTC [16789]
Gga CACCTCGAGGACTGTCTAACCTGAGAATGGTGAACATGAGGGTCAATCTCAGGTTCGTC [15087]
Xtr ----- [15354]
Lch TGTTTGGAGGACTGTCTAACCTGAGAATGGTGAA-CTCGAAGGTCAATCTCAGGTTCGTC [17326]
Dre GCTTTCAGGACTGTCCAACCTGAGAATGCTTGA--GTTTTGGTCAATCTCAGGTTCGTC [15649]

Hsa ----- [16415]
Mmu ----- [16078]
Mdo AGCCCATGAGGTGCCTTCC----- [15313]
Meu ----- [13081]
Oan AGCCCATGAAACGCCTTCT----- [14184]
Aca AGCCCACGAGAAGCTGCCT--CTGTGGGCTTGACATCATCCTACTTGAGATGTAATGTAA [16677]
Pbi AGCCCATGAGACGTTCCCTT--CTGTGGGTTTGACATCATCATACTTGGGATGTGCTAACA [16759]
Cpi AGCCCATGAGACGCCTTCT--CTATGGGTTTGACATCATCATACTTGGAGATGTA-TGACA [18204]
Cmy AGCCCATGAGACGCCTTCT--CTATGGGTTTGACATCATCATACTTGGAGATGTA-TGACA [17869]
Psi AGCCCATGAGACACTTTCT--CTATGGGCTTGACATCATCATACTTGGAGATGTA-TGACA [16417]
Asp AGCCCATGAGACACTTTCT--CTATGGGCTTGACATCATCATACTTGGAGATGTA-TGACA [15566]
Ami AGCCCATGAGACGCTCTCT--CTATGGGTTTGACATCATCATACTTGGGATGTA-TGTCA [17291]
Asi AGCCCATGAGACGCTCTCT--CTATGGGTTTGACATCATCATACTTGGGATGTA-TGTCA [16709]
Tgu AGCCCATGAGATGCCTTCT--CGATGGGCTTGACATCATCATACTTGGGATGTA-TGACA [13593]
Cli AGCCCATGAGACGCCTTCT--CTATGGGTTTGACATCATCATACTTGGGATGTA-TGACA [16846]
Gga AGCCCATGAGATGCCTTCT--CTATGGGTTTGACATCATCATACTTGGGATGTA-TGACA [15144]
Xtr -----CTCTGGGTTTGACATCATCATACTTGGGATGTA-TGACA [15392]
Lch AGCCCATAAAACGCTTCTT----- [17345]
Dre AGCCCATGAAAAACTGTCT----- [15668]

Hsa ----- [16415]
Mmu ----- [16078]
Mdo ----- [15313]
Meu ----- [13081]
Oan ----- [14184]
Aca TGCAAAGTCCCAAGTAGGTTGATGTCTGGCCCAAGATGG--ACCTCCCTGTGCTGGGCTT [16735]
Pbi TT-AAAACCCCAAGCAGGTTGATGTCTGGCCCAAGATGG--ACCTACTTGTGCTGGGCTT [16816]
Cpi C--AAAGTCCCAAGCAGGCTGATGTGTCAGGCCCAAGATGG--CCCTCTGTGTGTCGGGCTT [18260]
Cmy C--AAAGTCCCAAGCAGGCTGATGTGTCAGGCCCAAGATGG--CCCTCTGTGTGTCAGGCTT [17925]
Psi C--AAAGTCCCAAGCAGGCTGATGTGTCAGGTCCAAAATGG----- [16454]
Asp C--AAAGTCCCAAGCAGGCTGATGTGTCAGGCCCAAGATGG----- [15603]
Ami C--AAAGTCCCAAGAAGGCTGATGTGTCAGGCCCAAGATTG--CCCGCCGCTCCTGGGCTT [17347]
Asi C--AAAGTCCCAAGAAGGCTGATGTGTCAGGCCCAAGATTG--CCCGCCGCTCCTGGGCTT [16765]
Tgu C--GAAGTCCCAAGCAGGCTGATGTGTCAGGCCCAAGATGC--CCCGCTGTCTCCAGGGCTT [13649]
Cli C--AAAGTCCCAAGCAGGCTGATGTGTCAGGCCCAAGATGG--CACACTGTCTCCGGGGCTT [16902]
Gga C--AAAGTCCCAAGCAGGCTGATGTGTCAGGCCCAAGATGG--CCTGCTGTGTCCCGGGCTT [15200]
Xtr C--AAAGTCCCAAGCAAGCTGATGTTAGGCCCAAGATGG--CCTCCTGGGTCTGGGCTT [15448]
Lch -----TCTCTTGGGTTCTGGGCTT [17364]
Dre -----TGCTTGTATCCGAGGCTT [15687]

Hsa ----- [16415]
Mmu ----- [16078]
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Mdo	-----	[15313]
Meu	-----	[13081]
Oan	-----	[14184]
Aca	GTTTTTCAGTTGCCTGCGG-CTGATTAATAGGGACTCAGGCAGCTAAAGCAAGTCTGATAC	[16794]
Pbi	GTTTTTCAGTTGCCTGCGG-CTGGCTAATATG-ACTCAGGCAGCTAAAGCAAGTCTGGGGC	[16874]
Cpi	GTTTTTCAGTTGCCTGCGG-TTGGTTAGAAGG-ACTCAGGCAGCTAAAGCAAGTCTGGGAC	[18318]
Cmy	GTTTTTCAGTTGCCTGTGG-TTGGTTAGAAGG-ACTCAGGCAGCTAAAGCAAGTCTGGGAC	[17983]
Psi	-----	[16454]
Asp	-----	[15603]
Ami	GTTTTTCAGTTGCCTGCGGGTTTATTTGGACG-ACTCAGGCAGCTAAAGCAAGTCTGGGAC	[17406]
Asi	GTTTTTCAGTTGCCTGCGGGTTTATTCAGACA-ACTCAGGCAGCTAAAGCAAGTCTGGGAC	[16824]
Tgu	GTTTTCCGTTGCCTGAGGTTTGTTCAGTG--ACTCAGGCAGCGAAAGCAAGTCTGGGAG	[13707]
Cli	GTTTTCCGTTGCCTGCGG-TTTGTTCCAGTG-ACTCAGGCAGCGAAAGCAAGTCTGGGAG	[16960]
Gga	GTTTTCCGTTGCCTGCGG-TGTGTTGCAGTG-ACTCAGGCAGCGAAAGCAAGTCTGGGAG	[15258]
Xtr	GTTTTAAGTTGCCTGTGA-TTGTGGATAGA-GCACAGGCAGCTAAAGCAAGTCTGGGAA	[15506]
Lch	GTTTTAAGTTGCCTGTGA-TTACATAGCAGA-ACTCAGGCAGCTAAAGCAAGTCTGGAAA	[17422]
Dre	GTTTTAAGTTGCCTGCGA-TCTCTTAATG--ACTCAGGCAGCTAAAGCAAGTCTGGGAG	[15743]
Hsa	-----	[16415]
Mmu	-----	[16078]
Mdo	-----GATGGATTCTGGGAGTTGTAGCCTTTCAAACAGAGCTCT-GCATGTACA	[15361]
Meu	-----GATGGATTCTGGGAGTTGTAGCCTTTCAAACAGAGCTCT-GAATGTACA	[13129]
Oan	-----	[14184]
Aca	ATGAAAGGA--GGAACATTCTAGGAGTTGTAGTCTTTCAAACAGAGCTTT-GCAAGTACA	[16851]
Pbi	ATGAAAGGT--GGAATATTCTAGGAGTTGTAGTGTTCCAAACAGAGCTTT-GCAAGAACA	[16931]
Cpi	GCGCGAGGA--GGAATATTCTGGGAGTTGTAGTCTTTCAAACAGAGCTCT-GCAAGTATA	[18375]
Cmy	GCGTGAGGA--GGAATATTCTGGGAGTTGTAGTCTTTCAAACAGAGCTCT-GCAAGTATA	[18040]
Psi	-----GGAATATTCTGGGAGTTGTAGTCTTTCAAACAGAGCTCT-GCAAGTATA	[16502]
Asp	-----GGAATATTCTGGGAGTTGTAGTCTTTCAAACAGAGCTCT-GCAAGTATA	[15651]
Ami	GGGTGAGGA--GGAATATTCTGGGAGTTGTAGTCTTTCAAACAGAGCTTT-GCAAGTACA	[17463]
Asi	GGGTGAGGA--GGAATATTCTGGGAGTTGTAGTCTTTCAAACAGAGCTTT-GCAAGTACA	[16881]
Tgu	GCTGCGGAG--GGAATATTCTGGGAGTTGTAGTCTTTCAAACAGAGCTTC-ACAAGGACA	[13764]
Cli	GCTGTGGAG--GGAATATTCTGGGAGTTGTAGTCTTTCAAACAGAGCTTC-GCAAGGACA	[17017]
Gga	GCTGTGGAG--GGAATATTCTGGGAGTTGTAGTCTTTCAAACAGAGCTTT-GCAAGGACA	[15315]
Xtr	GCTGGAGAC--GGAATGCTCTGGGAGTTGTAGTCTTTCAAACAG--CTGT-GAATTTCTA	[15561]
Lch	GCAGGAGTC-----	[17431]
Dre	GCCAGAGAC-----	[15752]
Hsa	-----	[16415]
Mmu	-----	[16078]
Mdo	CACCTGTATTGGAACACTACA----GCTCCCCGAACTTCC-----	[15397]
Meu	CACCTGTATTGGAACACTACA----GCTCCCCGAACTTCC-----	[13165]
Oan	-----	[14184]
Aca	TACCTGTATTGGAACACTACA----GCTCCAGGAACTTTC-----	[16887]
Pbi	TACCTGTATTGGAACACTACA----GCTCCAGGAACTTCC-----	[16967]
Cpi	TACCTGTATTGGAACACTACA----GCTCCCCGAACTTCC--GTTTCCCCAAACAGTAAG	[18429]
Cmy	TACCTGTATTGGAACACTACA----GCTCCCCGAACTTCC--GTTTCCCCAAACAGTAAG	[18094]
Psi	TACCTGTATTGGAATACTACA----GCTCCCTGAACTTCC--GTCTCCCCAAACAGTAAG	[16556]
Asp	TACCTGTATTGGAATACTACA----GCTCCCTGAACTTCC--GTCTCCCCAAACAGTAAG	[15705]
Ami	TACCTGTATTGGAACACTACA----GCTCCCTGAACTTCC--GCCGCCCCAACAGTAAG	[17517]
Asi	TACCTGTATTGGAACACTACA----GCTCCCTGAACTTCC-----	[16917]
Tgu	TACCTGTATTGGAACACTACA----GCTCCCTGAACTTCC-----	[13800]
Cli	TACCTGTATTGGAACACTACA----GCTCCCTGAACTTCC--GCCCCCCGAACAGTAAG	[17071]
Gga	TACCTGTATTGGAACACTACA----GCTCCCTGAACTTCC-----	[15351]
Xtr	TACCTGTATTGGAACACTACA----GCTCCTAGAAATTC--GCGTCTCGGAACAGTAAG	[15615]
Lch	-----GGTTCTCAGAACAGTAAG	[17449]
Dre	-----	[15752]

Hsa ----- [16415]
Mmu ----- [16078]
Mdo ----- [15397]
Meu ----- [13165]
Oan ----- [14184]
Aca ----- [16887]
Pbi ----- [16967]
Cpi AGTTTATGTGCGGTGAGAGCTAG-AATCTGCATGTGGACTCCTACTGCTCCGGGAGGCTG [18488]
Cmy AGTTTATGTGCGGTGAGAGCTAG-AATCTGCATGTGAACTCCTACTGCTCTGGGAGGCTG [18153]
Psi AGTTTACGTGCGGTGAGAGCTGG-AATCTGCAGGTGAACTCCTACTGCTCTGGGAGGCTG [16615]
Asp AGTTTATGTGCGGTGACAGCTGC-AATCTGCATGTGAACTCCTACTGCTCTGGGAGGCTG [15764]
Ami AGTTTATGTGCGGTGAGAGCTGG-AATCTGCATGTGAACTCCTACTGCTCCGGGCGGCGG [17576]
Asi ----- [16917]
Tgu ----- [13800]
Cli AGTTGATGTGCGGT--GAGCTGC-ATCCTGCATGTGAGCTCCTACTGCCCGGGAGGCGG [17128]
Gga ----- [15351]
Xtr AGATTATGTGCTGTGTTATCAGGCAGCCGGCACATGGCCTTTTACTGCTCAGAGAGGCAG [15675]
Lch AGTTTATGTGCTGTGAGTGTCTTCAACCAGCACATCAACTTTTACAGTTCAGGGCGGCGG [17509]
Dre ----- [15752]

Hsa ----- [16415]
Mmu ----- [16078]
Mdo ---AGCCCTATGGGAAAGGTCCAATTTTACATGCCCTGTATGAAATAAAAA-GGGCTATG [15453]
Meu ----- [13165]
Oan ---AGACCTGTGGGACAGGTCCAATCTCACATGTCCTGTATAGAATAAAGG-GGGATATA [14240]
Aca ---ACACTTGTGGTCAAGGTCCAACCTCACGTGTCCTGTATGCGATAAAAAGAGGGATGCG [16944]
Pbi ---ACACTTGTGGTCAAGGTCCAACCTCATGTGTCCTGTATGCAATGAAAGTGGGATGCA [17024]
Cpi G--AAACCTGTGGGAAAGGTCCAACCTCACATGTCCTGTATGTAATAAAG--GGGATGTA [18544]
Cmy G--AGACCTGTGGGAAAGGTCCAACCTCACATGTCCTGTATATAATAAAG--GGGATATA [18209]
Psi G--AGACCTGTGGGAAAGGTCCAACCTCACATGTCCTGTATGTACGGAAG--GGGATATA [16671]
Asp G--AGACCTGTGGGAAAGGTCCAACCTCACATGTCCTGTGTGCAAGGAGG--GGGATATA [15820]
Ami G--AGACCCGTGGGAAAGGTCCAACCTCACATGTCCTGTATGTCACGAGGA-GGGATATA [17633]
Asi ---AGACCCGTGGGAAAGGTCCAACCTCACATGTCCTGTATGTCACGAGGA-GGGATATA [16973]
Tgu ---AGACCTGTGGGAAAGGTCCAACCTCACATGTCCTGTATAGAATAAAGA-GGGATATA [13856]
Cli G--AGACCTGTGGGAAAGGTCCAACCTCACATGTCCTGTATAGAATAAAGA-GGGATATA [17185]
Gga ---AGACCTGTGGGAAAGGTCCAACCTCACATGTCCTGTATAGAATAAAGGA-GGGATATA [15407]
Xtr G--GGGCGTGTGGGAAAGGTCCAGCCTCATATGTCCTGTG-ATCCTGAGG--GGGAGATA [15730]
Lch G--AGACCTGTGGGAAAGGTCCAACCTCACATGTCCTGTATTAATAAAGGA-GGGATATA [17566]
Dre ---AGCAATGTGAGAAAGGTCCAACCTCACATGTCCTGTGAGGCTGAAGGA-AGGCTGTG [15808]

Hsa ----- [16415]
Mmu ----- [16078]
Mdo TGTGGTTGGACCTGTCCACA-GGCC--CTTCCTGTCACTGCAGACAGTCAGTAGTTGG [15510]
Meu -----CTTCCTGTCACTGCAGACAGTCAGTAGTTGG [13196]
Oan TGTGGTCAGACCTATCCACA-GGCC--CTTCCTGTCACTGCAGACGGTCAGTAGTTGG [14297]
Aca TGTGGTCAGACCTAGCCACA-GGCC--AGATCTGTCACTGCAGACAGTCAGTAGTTGG [17001]
Pbi TGTGGTCAGACCTAGACCACA-AGGCC--TCTTCTGCCACTGCTGACAGTCAGTAGTTGG [17081]
Cpi TGTGGTCAGACCTATCCACA-GGCC--CTTCCTGTCACTGCAGACAGTCAGTAGTTGG [18601]
Cmy TGTGGTCAGACCTATCCACA-GGCC--CTTCCTGTCACTGCAGACAGTCAGTAGTTGG [18266]
Psi TGTGGTCAGACCTGTCCACA-GGCC----- [16697]
Asp TGTGGTCAGACCTATCCACA-GGCC----- [15846]
Ami TGTGGTCAGACCTATCCACA-GGCC--CTTCCTGCCACTGCAGACAGTCAGCAGTTGG [17690]
Asi TGTGGTCAGACCTATCCACA-GGCC--CTCCCTGCCACTGCAGACAGTCAGCAGTTGG [17030]
Tgu TGTGGTCAGACCTATCCACA-AGTCC--GCTCCTGCC-CTGCGGACAGTCAGCAGTTGG [13912]
Cli TGTGGTCAGACCTATCCACA-GGCC--GCTCCTGCC-CTGCGGACAGTCAGCAGTTGG [17241]
Gga TGTGGTCAGACCTATCCACA-GGCC----- [15433]

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Xtr TGTGGTCAGACCTGTCCCACA-GGCCG--TCTCCTGTTGCTGCAGACAGTCAGAAGTTGG [15787]
Lch TGTGGTCAGACCTATCCCACA-GGCTC--TCTC-TGTCCCCACGGACAGTCAGCAGTTGG [17622]
Dre TGAGGTTAGACCTATCCCACACGGCCC----- [15835]

Hsa -----GGTCTGGCTGT [16426]
Mmu -----GGTCTGGCTGT [16089]
Mdo TCTGGTGTGAGCAGGAATTCTCAGATCACCTCTTGGCTGTGAGTGGT--GGTCTGGCTGT [15568]
Meu TCTGGCGTGAGCAGGAATTCTCAGATCACCTCTTGGCTGTGAGTGGT----- [13243]
Oan TCTGGTGTGAGCAGCAATTCTCAGATCATCTCTTGGCTATGGATGGT--GGTCTGGCTGT [14355]
Aca TCTGGCATAAGCAGAAAGTTTTCAGATCACCTCTTGGCTGTGAGTAGT--CATCTGGCTGT [17059]
Pbi TCTGGGGTAAGCAGGAAATCTCAGATCATCTCTTGGCTGTGAGTGGT--CATCTGGCTGT [17139]
Cpi TCTGGCGAGAGCAGGAATTCTCAGATCACCTCTTGGCTGTGAGTGGT--GATTTGGCTGT [18659]
Cmy TCTGGCGTGAGCAGGAATTCTCAGATCACCTCTTGGCTGTGAGTGGT--GATTTGG--GT [18322]
Psi -----GATTTGGCTGT [16708]
Asp -----GATTTGGCTGT [15857]
Ami TCTGGCGTGAGCAGC-ATTCTCAGATCACCTCTTGGCTGTGGGTGGT--GATTTGGCTGT [17747]
Asi TCTGGCGTGAGCAGC-ATTCTCAGATCACCTCTTGGCTGTGGGTGGT--GATTTGGCTGT [17087]
Tgu TCTGGTGTGAGCAGCAATTCTCAGATCACCTCTTGGCTGTGGGTGGT--GATTTGGCTGT [13970]
Cli TCTGGTGTGAGCAGCGATTCTCAGATCACCTCTTGGCTGTGGGTGGT--GATTTGGCTGT [17299]
Gga -----GATTTGGCTGT [15444]
Xtr TCTGGCGTGAGAATAGATTCTCAGATCATCTCTTGGCTGATGCCAGC--GGTCTGACCCT [15845]
Lch TCTGGTGTGAGGGGA---TCTCAGATCAGCTCTTGGCTGTGGGTGGT--GGTCTGGCTGT [17677]
Dre ----- [15835]

Hsa TGTGGTGTGCAAAACTCCGTA---CATTGCTATTTTGGCCACACTGCAACACCTTACAG-- [16481]
Mmu TGTGGTGTGCAAAACTCCGTA---CATTGCTATTTTGGCCACACTGCAACACCTTACAG-- [16144]
Mdo TGTGGTGTGCAAAACTTCCTA---TGTTGCTTTTTTGGCCACACTGCAACACTTTACAG-- [15623]
Meu ----- [13243]
Oan TGTGGTGTGCAAAACTTCGTA---CATTGCTTTTTTGGCCACACTGCAACACTTTACAG-- [14410]
Aca TGTGGTGTGCAAAATTTTGTG---CATTGCC-TTTTGGCTGCACTGCAACACTTTACAG-- [17113]
Pbi TGTGGTGTGCAAAATTTTGTG---CATTGC-TTTTGGCTGCACTGCAACACTTTACAG-- [17192]
Cpi TGTGGTGTGCAAAACTTTGTA---CATTGCT-TTTTGGCCACACTGCAACACTTTACAG-- [18713]
Cmy TGTGGTGTGCAAAACTTTGTA---CATTGCT-TTTTGGCCACACTGCAACACTTTACAG-- [18376]
Psi TGTGGTGTGCAAAATCTTGTG---CATTGCC-TTTTGGCTGCACTGCAACACTTTACAG-- [16762]
Asp TGTGGTGTGCAAAACCTTGTG---CATTGCC-TTTTGGCTGCACTGCAACACTTTACAG-- [15911]
Ami TGTGGTGTGCAAAACTTTGTG---CGTTGCT-TTTTGGCCACACTGCAACACTTTACAG-- [17801]
Asi TGTGGTGTGCAAAACTTTGTG---CGTTGCT-TTTTGGCCACACTGCAACACTTTACAG-- [17141]
Tgu TGTGGTGTGCAAAACTTTGTA---CCTCGCT-TTTTGGCCACACTGCAACACTTTACAG-- [14024]
Cli TGTGGTGTGCAAAACTTTGTA---CCTTGTGCT-TTTTGGCCACACTGCAACACTTTACAG-- [17353]
Gga TGTGGTGTGCAAAACTTTGTA---CCTTGTGCT-TTTTGGCCACACTGCAACACTTTACAG-- [15498]
Xtr TGTGGTGTGCAAAACCTTATTTGCCCTCCCTGTTTTGGCCACACTGCGACACTCTACAG-- [15903]
Lch TGTGGTGTGCAAAATCTGTG---CATTTC-TTTTGGCCACACTGCAACACTTTACAG-- [17731]
Dre ----- [15835]

Hsa GAGTGCATTGTGATTTCCAATAAATTGAGGCAGTGGT-TCT-AAAAGCTGTCTACATTAAT [16539]
Mmu GAGTGCATTGTGATTTCCAATAAATTGAGGCAGTGGT-TCT-AAAAGCTGTCTACATTAAT [16202]
Mdo GAATGCATTGTGATTTCCAATAAATTGAGACAGTGAT-TCT-AAAAGCTGTCTACATTAAT [15681]
Meu GAATGTATTGTGATTTCCAATAAATTGAGGCAGTGAT-TTT-AAAAGCTGTCTACATTAAT [13301]
Oan ----- [14410]
Aca GAATGCATTGTGATTTCCAGTAATTGAGACAGTGAT-TCT-GAAAGCTGTCTACATTAAT [17171]
Pbi GAATGCATTGTGATTTCCAGTAATTGAGACAGTGAT-TCT-GAAAGCTGTCCACATTAAT [17250]
Cpi GAATGCATTGTGATTTCCAATAAATTGAGACAGTGAT-TCT-GAAAGCTGTCTACATTAAT [18771]
Cmy GAATGCATTGTGATTTCCAATAAATTGAGACAGTGAT-TCT-GAAAGCTGTCTACATTAAT [18434]
Psi GAATGCATTGTGATTTCCAATAAATTGAGACAGTGAT-TCT-GAAAGCTGTCTACATTAAT [16820]
Asp GAATGCATTGTGATTTCCAATAAATTGAGACAGTGAT-TTT-GAAAGCTGTCTACATTAAT [15969]
Ami GAATGCATTGTGATTTCCAATAAATTGAGACAGTGAT-TCT-GAAAGCTGTCTACATTAAT [17859]
Asi GAATGCATTGTGATTTCCAATAAATTGAGACAGTGAT-TCT-GAAAGCTGTCTACATTAAT [17199]
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Tgu ----- [14024]
Cli GAATGCATTGTGATTTCCAATAATTGAGACAGTGAT-TCT-GAAAGCTGTCTACATTAAT [17411]
Gga GAATGCATTGTGATTTCCAATAATTGAGACAGTGAT-TCT-GAAAGCTGTCTACATTAAT [15556]
Xtr GAATACATTGTGATTTCCAGTAATAGAGACAGTATT-TCT-GAAGGCTGTCTACATTAAT [15961]
Lch GAATGCATTGTGATTTCCAATAATTGAGACAGTAAT-TCT-GACAGCTGTCTACATTAAT [17789]
Dre GAATGCATTGTGATTTCCAATAATTGAGACAGTAATTTCTAAAAAGCTGTCTACATTAAT [15895]

Hsa GAAAAGAGCAATGTGGCCA [16558]
Mmu GAAAAGAGCAATGTGGCCA [16221]
Mdo GAAAAGAACAATGTAGTCA [15700]
Meu CAAAAGAACAATGCAGTCA [13320]
Oan ----- [14410]
Aca GAAAAGAACAATGTAGTCA [17190]
Pbi GAAAAGAACAATGTAGTCA [17269]
Cpi GAAAAGAACAATGTAGTCA [18790]
Cmy GAAAAGAACAATGTAGTCA [18453]
Psi GAAAAGAACAATGTAGTCA [16839]
Asp GAAAAGAACAATGTAGTCA [15988]
Ami GAAAAGAACAATGTAGTCA [17878]
Asi GAAAAGAACAATGTAGTCA [17218]
Tgu ----- [14024]
Cli GAAAAGAACAATGTAGTCA [17430]
Gga GAAAAGAACAATGTAGTCA [15575]
Xtr GAAAAGAGCAATGTAGTCA [15980]
Lch GAAAAGAACAATGTAGTCA [17808]
Dre GAAAAGAACAATGTAGTCA [15914]

;
END;

New Name	Gentic Anchor(s)	Hsa	Mmu	Gga	Aca	Xtr	Dre
Let-7							
let-7-P1	miR-100, miR-125b-1	let-7a-2	let-7a-2	let-7a-2	let-7a-2 (new, IX		
let-7-P1a							let-7a-2
let-7-P1b							let-7a-4
let-7-P2	miR-99b, miR-125a	let-7e	let-7e	X	let-7c-2	let-7a	
let-7-P2a							let-7d-1
let-7-P2b							let-7d-2
let-7-P3	miR-99a, miR-125b-2	let-7c	let-7c-1	let-7c	let-7c-1	let-7c	
let-7-P3a							let-7c-1
let-7-P3b							let-7c-2
let-7-P4	let-7a-1, let-7f-1	let-7d	let-7d	let-7d	let-7d	X	X
let-7-P5	let-7a-1, let-7d	let-7f-1	let-7f-1	let-7f	let-7f-2	X	let-7f
let-7-P6	PDPDC1, let-7d, let-7f-1	let-7a-1	let-7a-1	let-7a-1	let-7a	let-7e-1	let-7a-1
let-7-P7	let-7b	let-7a-3	let-7c-2	let-7a-3	let-7a-3 (new)	let-7e-2	let-7a-3
let-7-P8	let-7a-3	let-7b	let-7b	let-7b	let-7b	let-7b (?)	let-7b
let-7-P9	let-7f-2	miR-98	miR-98	X	miR-98	miR-98	let-7h
let-7-P10	miR-98	let-7f-2	let-7f-2	X	let-7f-1	let-7f	
let-7-P10a							let-7g-2
let-7-P10b							let-7g-1
let-7-P11	WRD82, miR-135a-1	let-7g	let-7g	let-7g	let-7g	let-7g	let-7j
let-7-P12	MON2, PPM1H	let-7i	let-7i	let-7i	let-7i	let-7i	let-7i
let-7-P13	PI16, MTCH1	X	X	let-7j	let-7a-4 (new - X		
let-7-P13a							let-7a-5
let-7-P13b							let-7a-6
let-7-P14	PI16, MTCH1	X	X	let-7k	let-7e	X	
miR-1							
miR-1-P1	GATA5, NTSR1	miR-1-1	miR-1a-1	miR-1a-1	miR-1a-2	miR-1a-2 (phylog	miR-1-1
miR-1-P2	MIB1	miR-1-2	miR-1a-2/miR-1	miR-1a-2	miR-1a-1	miR-1a-1	miR-1-2

miR-19-P2	miR-17 cluster	miR-19b-1	miR-19b-1	miR-19b-1 (old miR-19b-1 (old miR-19b-2			
miR-19-P3	miR-106/18b cluster	miR-19b-2	miR-19b-2	miR-19b-2 (nev miR-19b-2 (nev miR-19b-1			
miR-23-P1	miR-23a/24-2/27a cluster	miR-23a	miR-23a	X	miR-23a	miR-23a-1	miR-23a-2
miR-23-P1a							miR-23a-4
miR-23-P1b							
miR-23-P2	miR-23b/24-1/27b cluster	miR-23b	miR-23b	miR-23b	miR-23b	miR-23b	miR-23b
miR-23-P2a							miR-23c (new, C
miR-23-P2b							
miR-23-P3		X	X	X	X	miR-23a-2	
miR-23-P3a							miR-23a-1
miR-23-P3b							miR-23a-3
miR-24-P1	miR-23a/24-2/27a cluster	miR-24-2	miR-24-2	X	miR-24-1	miR-24b	
miR-24-P1a							miR-24-2
miR-24-P1b							miR-24-5
miR-24-P2	miR-23b/24-1/27b cluster	miR-24-1	miR-24-1	miR-24	miR-24-2	miR-24a	
miR-24-P2a							miR-24-1
miR-24-P2b							miR-24-3
miR-24-P3		X	X	X	X	X	miR-24-4
miR-26-P1	CTDSPL	miR-26a-1	miR-26a-1	miR-26a	miR-26-2	miR-26-3 (new)	
miR-26-P1a							miR-26a-2
miR-26-P1b							miR-26a-3
miR-26-P2	CTDSP2	miR-26a-2	miR-26a-2	X	miR-26-3 (new, miR-26-1		miR-26b
miR-26-P3	CTDSP1	miR-26b	miR-26b	miR-26a-2 (nev miR-26-1	miR-26-2		miR-26a-1
miR-27-P1	miR-23a/24-2/27a cluster	miR-27a	miR-27a	X	miR-27a	miR-27a	
miR-27-P1a							miR-27c-1
miR-27-P1b							miR-27c-2
miR-27-P2	miR-23b/24-1/27b cluster	miR-27b	miR-27b	miR-27b	miR-27b	miR-27b	

miR-27-P2a								miR-27d
miR-27-P2b								miR-27b
miR-27-P3a		X	X	X	X			miR-27e
miR-27-P3b								miR-27a
miR-27-P3c							miR-27c-1	
miR-27-P3d							miR-27c-2	
miR-29								
miR-29-P1	miR-29a cluster	miR-29a	miR-29a	miR-29a	miR-29a-1	miR-29a		miR-29a
miR-29-P2	miR-29a cluster	miR-29b-1	miR-29b-1	miR-29b-1	miR-29b-2	miR-29d		miR-29b-2
miR-29-P3	miR-29c cluster	miR-29c	miR-29c	miR-29c	miR-29a-2	miR-29c		X
miR-29-P4	miR-29c cluster	miR-29b-2	miR-29b-2	miR-29b-2	miR-29b-1	miR-29b		miR-29b-1
miR-30								
miR-30-P1	miR-30c-2	miR-30a	miR-30a	miR-30a	miR-30a	miR-30a		miR-30a
miR-30-P2	miR-30a	miR-30c-2	miR-30c-2	miR-30c-2	miR-30c	miR-30c-2		X
miR-30-P3	miR-30c-1	miR-30e	miR-30e	miR-30e	miR-30e	miR-30e		miR-30e-2
miR-30-P4	miR-30e	miR-30c-1	miR-30c-1	miR-30c-1	miR-30c-2 (new)	miR-30c-1		miR-30c
miR-30-P5	miR-30b	miR-30d	miR-30d	miR-30d	miR-30d	miR-30d		miR-30d
miR-30-P6	miR-30d	miR-30b	miR-30b	miR-30b	miR-30b	miR-30b		miR-30b
miR-33								
miR-33-P1	SREBF2	miR-33a	miR-33	miR-33	miR-33-1	miR-33b		X
miR-33-P2	SREBF1	miR-33b	X	miR-33-2 (new)	miR-33-2	miR-33a		X
miR-34								
miR-34-P1	GPR157, H6PD	miR-34a	miR-34a	miR-34a	miR-34b	miR-34a		
miR-34-P2a	BTG4	miR-34b	miR-34b	miR-34b	miR-34c	miR-34b-1-4		
miR-34-P2b	BTG4	miR-34c	miR-34c	miR-34c	miR-34a	X		
miR-34-P3a	CDC20B	miR-449a	miR-449a	miR-449a	miR-449a	miR-449a		
miR-34-P3b	CDC20B	miR-449b	miR-449b	miR-449b	X	miR-449b		
miR-34-P3c	CDC20B	miR-449c	miR-449c	X	miR-449b	miR-449c		

miR-34-P3d	cdc20b	X	X	X	miR-449c	X	
miR-92							
miR-92-P1	miR-17 cluster	miR-92a-1	miR-92a-1	miR-92	miR-92a-1	miR-92a-1	
miR-92-P1a							miR-92a-1
miR-92-P1b							miR-92a-2
miR-92-P2	miR-106/18b cluster	miR-92a-2	miR-92a-2	miR-92a-2 (new)	miR-92a-2	miR-92a-2	X
miR-92-P3	miR-93 cluster	miR-25	miR-25	X	X	miR-25	miR-25
miR-92-P4	MTX1	miR-92b	miR-92b	X	X	miR-92b (phylog)	miR-92b
miR-96-P1	miR-96 cluster	miR-96	miR-96	miR-96 (new, E Reads detectec)	miR-96	miR-96	
miR-96-P2	miR-96 cluster	miR-182	miR-182	miR-182 (new, miR-182 (locus)	miR-182	miR-182	
miR-96-P3	miR-96 cluster	miR-183	miR-183	miR-183	miR-183	miR-183	Reads detectec
miR-101-P1	JAK1, AK4	miR-101-1	miR-101a	miR-101-2	miR-101-1	miR-101a-2	miR-101a
miR-101-P2	JAK2, RCL1	miR-101-2	miR-101b	miR-101-1	miR-101-2	miR-101a-1	miR-101b
miR-103-P1	PANK3	miR-103a-1/miR	miR-103-1	miR-103-1	miR-103	miR-103-1	X
miR-103-P2	PANK2	miR-103a-2/miR	miR-103-2	miR-103-2	miR-103-2 (new)	miR-103-2	miR-103
miR-103-P3	PANK1	miR-107	miR-107	miR-107	miR-107	miR-107	
miR-103-P3a							miR-107a
miR-103-P3b							miR-107b
miR-124							
miR-124-P1	MSRA	miR-124-1	miR-124a-1	X	miR-124b	miR-124-2 (new)	miR-124-2
miR-124-P2	CYP7B1, GGH	miR-124-2	miR-124-2	miR-124a/miR-	miR-124a-1	miR-124	
miR-124-P2a							miR-124-1 (phy)
miR-124-P2b							miR-124-3 (phy)
miR-124-P3	YTHDF1	miR-124-3	miR-124-3	miR-124a-2	miR-124a-2	miR-124-3 (new)	miR-124-6
miR-124-P4	ythdf2	X	X	miR-124b	miR-124a-3	X	miR-124-4
miR-124-Po1							miR-124-5 (mig)

miR-128-P1	R3HDM1	miR-128-1	miR-128-1	miR-128-1	miR-128-2	miR-128-1	miR-128-2 (new
miR-128-P2	ARPP21	miR-128-2	miR-128-2	miR-128-2	miR-128-1	miR-128-2 (phyl)	miR-128-1
miR-129-P1	LRRC4	miR-129-1	miR-129-1	X	miR-129a (phyl)	miR-129-2?	
miR-129-P1a							miR-129-1
miR-129-P1b							miR-129-3 (new
miR-129-P2	HSD17B12	miR-129-2	miR-129-2	X	miR-129b (phyl)	miR-129-1	
miR-129-P2a							miR-129-2
miR-129-P2b							miR-129-4 (new
miR-130-P1	UBE2L6	miR-130a	miR-130a	X	miR-130a-1	X	X
miR-130-P2	PPIL2, miR-301b	miR-130b	miR-130b	miR-130b	miR-130b	miR-130b	miR-130b
miR-130-P3	PPIL2, miR-130b	miR-301b	miR-301b	miR-301a	miR-301b	miR-301-2	
miR-130-P3a							miR-301b
miR-130-P3b							miR-301c
miR-130-P4	ppil2, miR-130b	X	X	miR-130a	miR-130c	miR-130c	
miR-130-P4a							miR-130c-2
miR-130-P4b							miR-130c-1
miR-130-P5	ska2, smg8	X	X	miR-130c	miR-130a-2	miR-130a	miR-130a
miR-130-P6	SKA2, SMG8	miR-301a	miR-301a	miR-301b	miR-301a	miR-301-1	miR-301a
miR-132-P1	miR-132/miR-212	miR-132	miR-132	X	miR-132 (phyl)	miR-132	
miR-132-P1a							miR-132-1
miR-132-P1b							miR-132-2/132-
miR-132-P2	miR-132/miR-212	miR-212	miR-212	X	miR-212 (phyl)	miR-212	miR-212
miR-133							
miR-133-P1	GATA5, NTSR1	miR-133a-2	miR-133a-2	miR-133a-2	miR-133a-1	miR-133c	miR-133a-2
miR-133-P2	MIB1	miR-133a-1	miR-133a-1	miR-133a-1	miR-133a-2	miR-133a	miR-133a-1
miR-133-P3	IL17A, PKHD1	miR-133b	miR-133b	miR-133b	miR-133b (new)	miR-133b	

miR-153-P2	PTPRN2	miR-153-2	miR-153	miR-153	miR-153-1	miR-153-2 (phylc miR-153a	
miR-155-P1	JAM2, APP	miR-155	miR-155	miR-155	miR-155	miR-155	miR-155
miR-155-P2	?	X	X	X	miR-155b (newX		X
miR-181-P1	miR-181b-1	miR-181a-1	miR-181a-1	miR-181a-1	miR-181a-1	miR-181a-1	miR-181a-1
miR-181-P2	miR-181a-1	miR-181-b1	miR-181b-1	miR-181b-1	miR-181b-2	miR-181-b1	new (CABZ0103
miR-181-P3	miR-181b-2	miR-181a-2	miR-181a-2	miR-181a-2	miR-181a-2	miR-181a-2	miR-181a-2
miR-181-P4	miR-181a-2	miR-181b-2	miR-181b-2	miR-181b-2	miR-181b-1	miR-181b-2	miR-181b-2
miR-181-P5	miR-181d	miR-181c	miR-181c	X	miR-181a-3	X	
miR-181-P5a							new (BX649502
miR-181-P5b							new (CU571393
miR-181-P6	miR-181c	miR-181d	miR-181d	X	miR-181c (newX		
miR-181-P6a							miR-181b-1
miR-181-P6b							miR-181c
miR-190							
miR-190-P1	TLN2	miR-190a	miR-190a	miR-190	miR-190a	X	miR-190a
miR-190-P2	TPM3	miR-190b	miR-190b	miR-190b (new miR-190b (phyl		miR-190	miR-190b
miR-192-P1	EHD1, miR-194-2	miR-192	miR-192	X	X	miR-192	miR-192
miR-192-P2	IARS2, miR-194-1	miR-215	miR-215	miR-215	miR-215	miR-215	X
miR-193							
miR-193-P1	miR-365b	miR-193a	miR-193a	miR-193a (phyl miR-193		X	
miR-193-P1a							miR-193a-1
miR-193-P1b							miR-193a-2
miR-193-P2	miR-193a	miR-365b	miR-365-2	miR-365-2 (phy miR-365		X	
miR-193-P2a							miR-365-2
miR-193-P2b							miR-365-3
miR-193-P3	miR-365a	miR-193b	miR-193b	miR-193b	X	miR-193	miR-193b

miR-193-P4	miR-193b	miR-365a	miR-365-1	miR-365-1	X	miR-365	miR-365-1
miR-194-P1	EHD1, miR-192	miR-194-2	miR-194-2	X	miR-194-2	miR-194-2	miR-194a
miR-194-P1a							miR-194b
miR-194-P1b							X
miR-194-P2	IARS2, miR-215	miR-194-1	miR-194-1	miR-194	miR-194-1	miR-194-1	
miR-196-P1	HOXB	miR-196a-1	miR-196a-1	miR-196-1	miR-196c	X	miR-196b
miR-196-P2	HOXC	miR-196a-2	miR-196a-2	miR-196-3	miR-196a-2	miR-196a	
miR-196-P2a							miR-196a-1
miR-196-P2b							miR-196c
miR-196-P3	HOXA	miR-196b	miR-196b	miR-196-2	miR-196a-1	miR-196b	
miR-196-P3a							miR-196a-2
miR-196-P3b							miR-196d
miR-199-P1	DNM2	miR-199a-1	miR-199a-1	X	miR-199a-1	miR-199b	miR-199-2
miR-199-P2	DNM3, miR-214 (?)	miR-199a-2	miR-199a-2	miR-199-2	miR-199a-2 (p)	miR-199a	miR-199-1
miR-199-P3	DNM1	miR-199b	miR-199b	miR-199-1	miR-199b	X	miR-199-3
miR-204-P1	TRPM3	miR-204	miR-204	miR-204-1	miR-204a-2	miR-204-2	miR-204-1
miR-204-P2	TRPM1	miR-211	miR-211	miR-204-2	miR-204a-1	miR-204-1	
miR-204-P2a							miR-204-2
miR-204-P2b							new (ENSDARG)
miR-204-P3	?	X	X	miR-211	X	X	X
miR-205-P1	LAMB3, CAMK1G	miR-205	miR-205	miR-205a	miR-205a	miR-205a	
miR-205-P2	ENSGALG00000008449	X	X	miR-205b	miR-205b	miR-205b (phylogeny)	
miR-208-P1	MYH6	miR-208a	miR-208a	X	miR-208 (phyl)	miR-208	X
miR-208-P2	MYH7	miR-208b	miR-208b	X	X	X	miR-736

miR-216							
miR-216-P1	miR-216b, miR-217	miR-216a	miR-216a	miR-216a	miR-216a	miR-216	miR-216a
miR-216-P2	miR-216a, miR-217	miR-216b	miR-216b	miR-216b	miR-216b	X	miR-216b
miR-218							
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miR-218-P2	SLIT3	miR-218-2	miR-218-2	miR-218-2	miR-218-2	miR-218-2	miR-218a-1
miR-218-P3		X	X	X	X	X	miR-218b
miR-219							
miR-219-P1	RING1	miR-219a-1	miR-219a-1/mif	X	miR-219-2 (phy)	X	miR-219-3
miR-219-P2	URM1	miR-219a-2/miR	miR-219a-2/mif	miR-219a/miR-	miR-219-1	miR-219 (phylogeny)	
miR-219-P2a							miR-219-1
miR-219-P2b							miR-219-2
miR-221							
miR-221-P1	miR-222	miR-221	miR-221	miR-221	miR-221	miR-221	miR-221
miR-221-P2	miR-221	miR-222	miR-222	miR-222a	miR-222	miR-222	miR-222a
miR-221-P3	fundc2	X	X	miR-222b	miR-222b (new)	X	miR-222b
miR-223							
miR-223-P1	MSN, HEPH	miR-223	miR-223	miR-223	miR-223	miR-223	miR-223
miR-223-P2	VPS13B	miR-599	miR-599	X	X	X	X
miR-338							
miR-338-P1	AATK	miR-338	miR-338	miR-338 (new,	miR-338	miR-338-1	
miR-338-P1a							miR-338-1
miR-338-P1b							new (ENSDARG)
miR-338-P2	lmtk2	X	X	X	X	miR-338-2	miR-338-2
miR-302/367 cluster							
miR-430-P1	miR-302/367 cluster	miR-302a	miR-302a	miR-302a	miR-302a (new)	miR-302	
miR-430-P2	miR-302/367 cluster	miR-302b	miR-302b	miR-302b	miR-302	X	
miR-430-P3	miR-302/367 cluster	miR-302c	miR-302c	miR-302c	X	X	
miR-430-P4	miR-302/367 cluster	miR-302d	miR-302d	miR-302d	X	X	

miR-454-P1	SKA2, miR-301a	miR-454	X	X	X	X	miR-454a
miR-454-P2	ppil2, miR-130b	X	X	miR-454	miR-454	miR-454 (new E)	miR-454b
miR-460-P1	pth1r	X	X	miR-460a	miR-460a	miR-460a (new,	miR-460
miR-460-P2	htr2c	X	X	miR-460b	miR-460b	miR-460b (new,	miR-730
miR-551-P1	MEGF6	miR-551a	X	X	X	miR-551a (new)	X
miR-551-P2	MECOM	miR-551b	miR-551b	miR-551	miR-551	miR-551b (new,	X

#NEXUS

[MacClade 4.08 registered to Kevin J. Peterson, Dartmouth College]

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P1 (10838-10926)', 129 'miR-135-P2 (10929-11017)', 130
'miR-135-P3 (11020-11110)', 131 'miR-137-P1 (11113-
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137 'miR-142 (11693-11778)', 138 'miR-143 (11781-11865)',
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141 'miR-146-P1 (12039-12125)', 142 'miR-146-P2
(12128-12214)', 143 'miR-146-P3 (12217-12303)', 144
'miR-147 (12306-12384)', 145 'miR-148-P1 (12387-12467)',
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163 'miR-191 (13966-14052)', 164 'miR-192-P1 (14055-14144)', 165 'miR-192-P2 (14147-14232)', 166 'miR-193-P1 (14235-14322)', 167 'miR-193-P2 (14325-14401)', 168 'miR-193-P3 (14404-14487)', 169 'miR-193-P4 (14490-14566)', 170 'miR-194-P1 (14569-14653)', 171 'miR-194-P2 (14656-14740)', 172 'miR-196-P1 (14743-14830)', 173 'miR-196-P2 (14833-14919)', 174 'miR-196-P3 (14922-15010)', 175 'miR-199-P1 (15013-15101)', 176 'miR-199-P2 (15104-15190)', 177 'miR-199-P3 (15193-15279)', 178 'miR-202 (15282-15368)', 179 'miR-203 (15371-15458)', 180 'miR-204-P1 (15461-15546)', 181 'miR-204-P2 (15549-15633)', 182 'miR-204-P3 (15636-15721)', 183 'miR-205-P1 (15724-15803)', 184 'miR-205-P2 (15806-15885)', 185 'miR-208-P1 (15888-15971)', 186 'miR-208-P2 (15974-16056)', 187 'miR-210 (16059-16147)', 188 'miR-214 (16150-16241)', 189 'miR-216-P1 (16244-16334)', 190 'miR-216-P2 (16337-16424)', 191 'miR-217 (16427-16509)', 192 'miR-218-P1 (16512-16603)', 193 'miR-218-P2 (16606-16697)', 194 'miR-219-P1 (16700-16791)', 195 'miR-219-P2 (16794-16883)', 196 'miR-221-P1 (16886-16969)', 197 'miR-221-P2 (16972-17061)', 198 'miR-221-P3 (17064-17155)', 199 'miR-223-P1 (17158-17248)', 200 'miR-223-P2 (17251-17349)', 201 'miR-338-P1 (17352-17440)', 202 'miR-338-P2 (17443-17525)', 203 'miR-363 (17528-17620)', 204 'miR-367 (17623-17691)', 205 'miR-375 (17694-17787)', 206 'miR-383 (17790-17859)', 207 'miR-425 (17862-17950)', 208 'miR-430-P1 (17953-18022)', 209 'miR-430-P2 (18025-18099)', 210 'miR-430-P3 (18102-18169)', 211 'miR-430-P4 (18172-18243)', 212 'miR-451 (18246-18317)', 213 'miR-454-P1 (18320-18406)', 214 'miR-454-P2 (18409-18501)', 215 'miR-455 (18504-18587)', 216 'miR-456 (18590-18669)', 217 'miR-458 (18672-18755)', 218 'miR-459 (18755-18842)', 219 'miR-460-P1 (18845-18928)', 220 'miR-460-P2 (18931-19014)', 221 'miR-489 (19017-19102)', 222 'miR-499 (19105-19188)', 223 'miR-551-P1 (19191-19270)', 224 'miR-551-P2 (19273-19352)', 225 'miR-726 (19355-19440)', 226 'miR-737 (19443-19530)', 227 'miR-875 (19533-19611)', 228 'miR-1306 (19614-19696)', 229 'miR-1329 (19678-19768)', 230 'miR-1388 (19792-19879)', 231 'miR-1662 (19882-19960)', 232 'miR-1788 (19962-20049)', 233 'miR-1805 (20052-20140)', 234 'miR-2184 (20143-20221)', 235 'miR-2188 (2022-20306)', 236 'miR-2970 (20310-20387)', 237 'miR-3064 (20390-20458)', 238 'miR-3618 (20461-20539)'

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MATRIX

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> Columba
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> Chrysemys
-----TGCACCATGTTGGGCTGCATCAGTCATGCCATGTTATGAAACCTAACACGATGTGACTGATGCAGGCTGACATGA-----
> Chelonia
-----GCACCATGTTGGGCTGCATCAGTCATGCCATGTTATGAAACCTAACACGATGTGACTGATGCAGGCTGACAGGA-----
> Pelodiscus
---TGATGCACCATGTTGGGTTGCATCAGTCATGCCAAGTTATGAAACCTAACACAAAAGTGACTGATGCAGGTTGACATGACATGTCACAA-
> Apalone
---TGATGCACCATGTTGGGTTGCATCAGTCATGCCATGTTATGAAACCTAACACAAAAGTGACTGATGCAGGTTGACATGACATGTCACAA-
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> Gga
--CTTC-ACCTGCGGAGCCTGCTGAGAGTGAAATTGATAAAGTGCGGCACCAGCTCAGACAATTTCACTCACAGCAGGCAC TTGCAGGTGAAGCA
> Tgu
TGCTTC-ACCTGCGGAGCCTGCTGAGAGTGAAATTGATAAAGGACAGCACCAGCCCAGGCAATTTCACTCACAGCGGGCAC TTGCAGGTGAAGCA
> zebrafinch
-----AGCCTGCTGAGAGTGAAATTGA-----AATTTCACTCACAGCGGGCAC TT-----
> Columba
TGCTTC-ACCTGCGGAGCCTGCTGGGAGCGAAATTGAGAAAGGACAGCGCCAGCCCAGGCAATTTCACTCACAGCGGGCAC TTGCAGGTGAAGCA
> duck
-----AGCCTGCTGAGAGTGAAATTGA-----
> Ami
TGCTTT-ACCTGTGGCTCCTACTGTGAGTGAAATTGAGTAGGATCAG-GTGATCCTAGTCAATTTCACTCGCAGCAGGTTCTG-GGGATAAAGCC
> A sinensis
TGCTTT-ACCTGTGGCTCCTACTGTGAGTGAAATTGAGTAGGATCAG-GTGATCCTAGTCAATTTCACTCACAGCAGGTTCTG-GGGATAAAGCC
> Chrysemys
----CT-ACAGCAG-ATCCTGTTGAGAGTAAACTAACAAGGATCATGCA-ATCCCAGGCAATTTCACTCACAGCAGGCATTG-TAAGTAAAGCA
> Chelonia
CGCTTT-ATCCCCAGCACCTGCTGAGAGTGAAATTGAGTAGGATCAG-ATGATCCTAGTCAATTTCACTCACAGCAGGAGCCA-CAGGTAAAGGG
> Pelodiscus
AATGATTCATCCTGATGCCTGCTGGGAGTGAAATTGAT-AAGTATAGCAGGAACCTACTCAATTTCAATTCACAGCAGGCAC TT-CAGGTAAAG--
> Apalone
AATGATTCATCCTGATGCCTGCTGGGAGTGAAATTGAT-AAGTATAGCAGGAACCTACTCAATTTCAATTCACAGCAGGCAC TT-CAGGTAAAG--
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>Gallus-mir-9-3_pre
AGGGATGTTTCTGTCTTTGGTTATCTAGCTGTATGAGTGTGTGGAGCCATCATAAAGCTAGATAACCGAAAGTAGAAATGACTTC

>Gallus-mir-9-3-5p
TCTTTGGTTATCTAGCTGTATGA

>Gallus-mir-19b-2_pre
GCTGCTCACAGTCAGTTTTGCAGGTTTGCATCCCAGCTTGCTAAAATTGCTGTGCAAATCCATGCAAAACTGACTGTGGTGGT

>Gallus-mir-19b-2-3p
TGTGCAAATCCATGCAAAACTGA

>Gallus-mir-26a-2_pre
GAGGCTGGCGCTGGGTTCAAGTAATCCAGGATAGGCTGTGGTCTG-GCAGTCAGCCTGTTCTAGGTTACTTGGCTCCGGAGCCCGCC

>Gallus-mir-26a-2-5p
TTCAAGTAATCCAGGATAGGCT

>Gallus-mir-33-2_pre
CGGCCCTCGCGGGGTGCATTGTAGTTGCATTGCATGTGTC-AGACTGGGAGTGCAATGCCCTGCCATGCAGCCCGGGGGTCCC

>Gallus-mir-33-2-5p
GTGCATTGTAGTTGCATTGCAT

>Gallus-mir-92a-2_pre
GTTCTCCGTGGGTGGGGATTTGTTGCATTACTTGTAGCTGTGTGTAGAGTATTGCACTTGTCCC GGCTGTGGAGGAAAG

>Gallus-mir-92a-2-3p
TATTGCACTTGTCCC GGCTG

>Gallus-mir-96_pre
GGCCCGCTTTGGCACTAGCACATTTTTGCTTTGCTTTATGTGTTTTGAGCAATTATGTGTAGTGCCAATATGGGAGAAGGCGGAGA

>Gallus-mir-96-5p (predicted)
TTGGCACTAGCACATTTTTGCT

>Gallus-mir-125b-1_pre
GTTGCGCCCTCTCAATCCCTGAGACCCTAACTTGTGATGTTTAGCTTTTAAATCCACGGGTTAGGCTCTTGGGAGCTGTGAGTTGTGCTTT

>Gallus-mir-125b-1-5p
TCCCTGAGACCCTAACTTGTGA

>Gallus-mir-145_pre
CGTGCTCTCAGGGTCCAGTTTTCCAGGAATCCCTTAGGCGCTACGTTGGGGATTCTTGAAATACTGTTCTTGGGGCCACGGCT

>Gallus-mir-145-5p (predicted)
GTCCAGTTTTCCAGGAATCCCTT

>Gallus-mir-153b_pre
TTAGCGGTTGCCAGTGTCATTTTGTGATGTTGCAGCTAGTAATATGAGCCCAGTTGCATAGTCACAAAAGTGATCATTTGGAAACTGTGAC

>Gallus-mir-153b-3p (predicted)
TTGCATAGTCACAAAAGTGATCAT

>Gallus-mir-182_pre
GGCTGCTTTTGGCAATGGTAGAACTCACACTGGTGCCTCGCAGGATCCGGTGGTTCTAGACTTGCCAACTACAGCCCCGGG

>Gallus-mir-182-5p (predicted)
TTTGGCAATGGTAGAACTCACACTG

>Gallus-mir-190b_pre
CCCTGCCTCTGTCTGATATGTTTGATATTAGGTTGTTGATTGGAAACCAACTAAATATCAAACATATTCTTACAGCGGCAGGGC

>Gallus-mir-190b-5p (predicted)
TGATATGTTTGATATTAGGTTG

>Gallus-mir-203b_pre
CGGGCCTCGCTGGTCAAGTGGTCTTAAACATTTTACAATTTATGATAGAGAAGTGTGAACTGTTAAGAACCCTGCACCAAGGAGGCTGAGG

>Gallus-mir-203b-3p
TTGAACTGTTAAGAACCACTGC

>Gallus-mir-210_pre
CAGGAGCAGGTGAGCCACTGACTAACGCACATTGTGCTCTCGGGCGACTCCACTGTGCGTGTGACAGCGGCTAACCTGCTCCTCGGAC
>Gallus-mir-210-3p (predicted)
CTGTGCGTGTGACAGCGGCTAA

>Gallus-mir-338_pre
GCTCCTCCTGCCCAACAATATCCTGGTGCTGAGTGAGTTGCACACAGAGACTCCAGCATCAGTGATTTTGTGAGGAAGGGGAGC
>Gallus-mir-338-3p (predicted)
TCCAGCATCAGTGATTTTGTGGA

>Gallus-mir-363_pre
GTAAGCTTTGTTTTGCTGTTGTCGGGTGGATCACGATGCAATTTTGTATTAGTTTAGTAGGAGAAAAATTGCACGGTATCCATCTGTAAACCGCAAG
>Gallus-mir-363-3p (predicted)
AATTGCACGGTATCCATCTGTAA

>Gallus-mir-1388_pre
GCGAGGGGCACCTCGAGGACTGTCTAACCTGAGAATGGTGAAACATGAGGGTCAATCTCAGGTTTCGTTCAGCCCATGAGATGCCTTCTC
>Gallus-mir-1388-3p (predicted)
ATCTCAGGTTTCGTTCAGCCCATG

>Anolis-let-7a-2_pre
GCATCCAGGTTGAGGTAGTAGGTTGTATGGTTTAGAATTACACCAAGGGAGATAACTGTACAACCTCCTAGCTTTCCCTTGGGTCTTGCACA

>Anolis-let-7a-2-5p
TGAGGTAGTAGGTTGTATGGTT

>Anolis-let-7-new-3p
CTGTACAACCTCCTAGCTTTCC

>Anolis-let-7a-3_pre
GGGTGAGGTAGTAGGTTGTATAGTTTTAGGGTCTGCCCTGCCTGTACATAACTATAACAATCTACTGTCTTTCCCT

>Anolis-let-7a-3-5p
TGAGGTAGTAGGTTGTATAGTT

>Anllios-let-7a-3-3p
CTATACAATCTACTGTCTTTCC

>Anolis-let-7a-4_pre
AGGTGAGGTAGTAGGTTGTATAGTTTTGTGGGAGGGATTACATCCCATTTTCAGGTGATAACTATAACAGTCTATTGCCTTCCTTA

>Anolis-let-7a-4-5p
TGAGGTAGTAGGTTGTATAGTT

>Anolis-let-7a-4-3p
CTATAACAGTCTATTGCCTTCCT

>Anolis-mir-19b-2_pre
TACCACCACAGTCAGTTTTGCATGGATTTGCACAGCGACGGACAGCAAGCTGGGATGCAAACCTGCAAAACGGACTGTAGATCA

>Anolis-mir-19b-2-3p (predicted)
GATGCAAACCTGCAAAACGGAC

>Anolis-miR-26-3_pre
AAGGCTTCAGCCTGGTTCAAGTAATCCAGGATAGGCTGTTACCAGGCAGTACGGCCTATTCTTGATTACTTGTTCAGGAGGCGGCC

>Anolis-mir-26-3-5p
TTCAAGTAATCCAGGATAGGCT

>Anolis-mir-26-3-3p
GGCCTATTCTTGATTACTTGT

>Anolis-mir-30c-2_pre
TAGCAGCGCATGTAAACATCCTACACTCTCAGCTGTGAATTTGTGGTGGCTGGGAGAAGGTTGTTTACACCTTCT

>Anolis-mir-30c-2-5p
TGTAACATCCTACACTCTCAGC

>Anolis-mir-30c-2-3p
CTGGGAGAAGGTTGTTTACAC

>Anolis-mir-103-2_pre
AGCTTGGTGCTTTTCAGCTTCTTTACAGTGCTGCCTTGTGCAACCATGTCAAGCAGCATTGTACAGGGCTATGAAAGAAC

>Anolis-mir-103-2-3p
AGCAGCATTGTACAGGGCTATGA

>Anolis-mir-106_pre
TCGGGGTGCAAAAGTGCTTATAGTGCAGGTAGTGTGTTGGCATCTACTGCAGTGTGGCACTTCCGTGCCACGATG

>Anolis-mir-106-5p
AAAAGTGCTTATAGTGCAGGTAG

>Anolis-mir-106-3p
ACTGCAGTGTGGCACTTCC

>Anolis-mir-133a-3_pre
TGTGTCCCTAGGGCTGGTAAAAAGGAACCAGATCGACTGGCAACTGGATTTGGTCCCCTTCAACCAGCTGTGGTGGC

>Anolis-mir-133a-3p
TTTGGTCCCCTTCAACCAGCTG

>Anolis-mir-133b_pre
ACTTGAGTCCTGCTCTGGCTGGTCAAAGGGAACACGGCTGTCTTCCCTTGAAGGTTTGGTCCCCTTTAACCAGCTACAGCAGTCCTGATATCA
>Anolis-mir-133b-3p
TTTGGTCCCCTTTAACCAGCTA
>Anolis-mir-133b-5p
GCTGGTCAAAGGGAACACGGC

>Anolis-mir-155b_pre
CAGAAGGTGTTTATGCTCCTTACGTCGGGAGTTTGAGATCTGATGCAACTCCTCTCCTGGTAGCATTGACTCTTACTGA
>Anolis-mir-155b-5p (predicted)
TTTATGCTCCTTACGTCGGGAG

>Anolis-mir-181c_pre
AAAGTCACAATCAACATTTCATTCTGTTCGGTGGGTGTGATGCTGGAGGAGAACCCTCACTGATCAGTGAATGCAACTGTGGCTGGA
>Anolis-mir-181c-5p
AACATTTCATTCTGTTCGGTGGGT

>Anolis-mir-222b_pre
GGATGCCAATGGGCTGCTCAGTAGTCGGTGTAGAATCTGTCTGATGATACCCACAGCTACATCTGATTACTGGGTTTCCCTGTGGCATCAG
>Anolis-mir-222b-5p
TGCTCAGTAGTCGGTGTAGAATC
>Anolis-mir-222b-3p
AGCTACATCTGATTACTGGGTTTC

>Anolis-mir-302a_pre
CCACTACTTTAATATGAAAGTACTTGTTTTTGTTCCTTTTAAAAAGTGCTTTCATATTTTAGTGATGG
>Anolis-mir-302a-3p (predicted)
AAGTGCTTTCATATTTTAGTGA

>Anolis-mir-737_pre
GCTACTCTGCTGTTGTTTTTTTAGGTTTTGATTTTTATGCCATCCTCATGCGAAAATCAAAACCTAAAGAAAATGCTGCAAAGATAGAT
>Anolis-mir-737-3p
AATCAAAACCTAAAGAAAATG
>Anolis-mir-737-5p
GTTTTTTTTAGGTTTTGATTTTT

>Anolis-mir-1641_pre
CAGGGCTTTTCCCTG-GGATTAATGACAGTCTGGGGGCATCATCTCCTCCCAGTTAGTTATTAATCCTCAGGAAACACTCAGTGCCTT
>Anolis-mir-1641-5p (predicted)
TGGGATTAATGACAGTCTGGGG

>Aca-novel-1_pre
TCTCTGGGTTACTGTGGGTTTTCCAGTCTGTATGGCCATGTTCCAGAAGCATACAGCCTGGAAAACCTTGCAGCAACCCAGTGG
>Aca-novel-1-3p
TACAGCCTGGAAAACCTTGCAGC
>Aca-novel-1-5p
TGTGGGTTTTCCAGTCTGTATG

>Aca-novel-2_pre
TGAAATAAAGTGACATGGACAATTTTGGTTTTGATGTTTAATGAGTATCAAAACTAGGATTGTCTATGCCATTGTGTTTTTC
>Aca-novel-2-3p
TCAAAACTAGGATTGTCTATGC
>Aca-novel-2-5p
ATGGACAATTTTGGTTTTGATG

>Aca-novel-3_pre
GCCCAGAATGGGGCATCCACACAACCAGCAAGAAGGAAAATAAGATTAATCCCTTTCTTCTTGCTGTTTTGTGCAGGTGCCTCATCCTGACA

>Aca-novel-3-5p
CCACACAACCAGCAAGAAGGAA
>Aca-novel-3-3p
TCTTCTTGCTGTTTGTGCAGGT

>Aca-novel-4_pre
TGTTTCCCCAGCCTTCTTTTCATCTCTGAAATGCATATGTTTTAGCACCATTTGTATTTTCAGAGATGGAGGGCCGAAGAAACGCAT
>Aca-novel-4-5p
TTTCATCTCTGAAATGCATATG
>Aca-novel-4-3p
TTTGTATTTTCAGAGATGGAGGG

>Aca-novel-5_pre
CTCTACAGTCCTTCTCAAAATGGAAACAGGAAATAGAGTCAGATCACTTCTTGTGTCATTTTGAGATGAACTTTATAGAA
>Aca-novel-5-3p
TCTTGTGTCATTTTGAGATGA
>Aca-novel-5-5p
TTCTCAAAATGGAAACAGGAA

>Aca-novel-6_pre
TCCCAGGTTCTTCTACACTGCCATATAATCCAGATTATCTGTTTTGATTTTATATGGCAATGTAGAGGAAGGTTTCTTTT
>Aca-novel-6-3p
ATTTTATATGGCAATGTAGAGG
>Aca-novel-6-5p
TTCTACACTGCCATATAATCCA

>Aca-novel-7_pre
CCCTTCTACACTGGCCCAAACCTTTATGAAATCAGTATTTAAAGCCCCAATTTTCATGAGAATTTGGTGCTCGTGCAGGCGGC
>Aca-novel-7-3p
TTTCATGAGAATTTGGTGCTCG
>Aca-novel-7-5p
TGGCCCAAACCTTTATGAAATC

READ ADJUSTMENTS:

>Aca-miR-5407-5p
TTTTCGGATTTTTCAGTCACAGTTT
>Aca-miR-5407-3p
TCTGTGTGGGATAATCCGAAAGA

>Aca-miR-5417-3p
TCATCCCAGCCCCTTTTCTCCC
>Aca-miR-5417-5p
GAGAGAAGGCGTGGGAAGGAGC

>Aca-miR-5426-5p
CACTCTAAGTCTACTTCCACAG
>Aca-mir-5426-3p
GAGGAAGTAAACTTGGACTACT

>Xenopus-mir-26-3_pre
GTGGCCCGGTTCAAGTAATCCAGGATAGGCTGTTTACATTCTGCGTGGCCTATTCTTGATTACTTGCATTGGGAGGC

>Xenopus-mir-26-3-5p
TTCAAGTAATCCAGGATAGGC

>Xenopus-mir-124-2_pre
GGCCCTTCTCTCCGTGTTTACAGCGGACCTTGATTTAAATGTCCATACAATTAAGGCACGCGGTGAATGCCAAGAGAGGGGCT

>Xenopus-mir-124-3_pre
ACGGAGCCCCCTCTGCGTGTTCACAGCGGACCTTGATTTAA-TGTCCATACAATTAAGGCACGCGGTGAATGCCAAGAGAGGGGCTTTATC

>Xenopus-mir-124-3p
TTAAGGCACGCGGTGAATGCCA

>Xenopus-mir-454_pre
AGTGCCCTCAGCCTTAAGGAAGTGACCCTATCAATATTGCTCTGCTTTTTGTGCTCGGAGTAGTAGTGCAATATTGCTTATAGGGTCTTTTCCTTG

>Xenopus-mir-454-3p (predicted)
TAGTGCAATATTGCTTATAGGGT

>Xenopus-mir-460a_pre
TGGCTTTATAGAGCCTGCATTGTACACACTGTGTGTGCACCTCAGACTTGCACAGCGCATACAATGTGGATGCTATATGAGTC

>Xenopus-mir-460a-3p (predicted)
CACAGCGCATACAATGTGGATGC

>Xenopus-mir-460b_pre
TGACTCTACATTGTCCTCATTGTACATGCTGTGTGTATCTATTTCTCTTACACAGCGCATGCAATGTGGATATATTGGATGTC

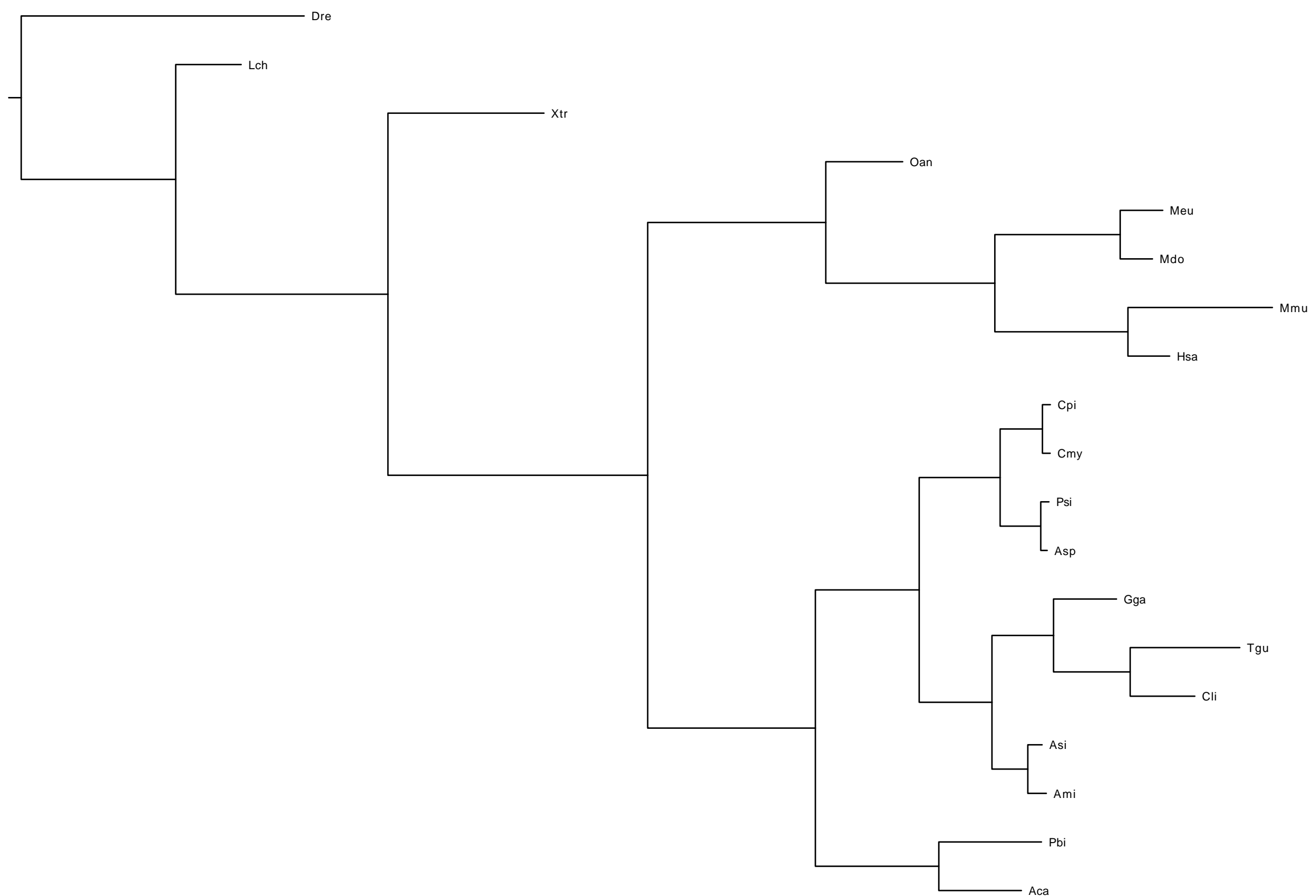
>Xenopus-mir-460b-3p (predicted)
CACAGCGCATGCAATGTGGATA

>Xenopus-mir-551a_pre
TGACCTTGAAACCAAGAGTGGGTTGGGCCTGTTAGATCACATAGGCGACCCATACTTGGTTTCAAGGGTTAGCAGG

>Xenopus-mir-551a-3p (predicted)
GGCGACCCATACTTGGTTTCA

>Xenopus-mir-551b_pre
TGACCTTAGAAATCAAGCTTGGGTTAGACCTGGTTCTTATACACTGAGGCGACCCATACTTGGTTTCTGAGGCTGAAGTG

>Xenopus-mir-551b-3p (predicted)
GGCGACCCATACTTGGTTTCT



5.0E-4

