```
           ****** * ** ** ** ** **     * **    **  *  * **  * ***** ** ** ** *** * ** ** **  * ******** ** ** *
SusS_MEF2A ATGGGGCGAAAGAAGATACAAATCACACGCATAATGGATGAAAGGAACCGACAGGTCACTTTTACAAAGAGAAAGTTTGGACTAATGAAGAAAGCCTATG   100
EquC_MEF2A ATGGGGCGGAAGAAAATACAAATCACACGCATAATGGATGAAAGGAACCGACAGGTCACTTTTACAAAGAGAAAGTTTGGATTAATGAAGAAAGCCTATG   100
PonA_MEF2A ATGGGGCGGAAGAAAATACAAATCACACGCATAATGGATGAAAGGAACCGACAGGTCACTTTTACAAAGAGAAAATTTGGATTAATGAAGAAAGCCTATG   100
HomS_MEF2A ATGGGGCGGAAGAAAATACAAATCACACGCATAATGGATGAAAGGAACCGACAGGTCACTTTTACAAAGAGAAAGTTTGGATTAATGAAGAAAGCCTATG   100
MusM_MEF2A ATGGGGCGAAAGAAGATACAAATCACACGCATAATGGATGAGAGGAACCGACAGGTTACTTTTACAAAGCGAAAGTTCGGATTGATGAAGAAAGCCTATG   100
RatN_MEF2A ATGGGGCGAAAGAAAATACAAATTACACGCATAATGGATGAGAGGAACCGACAGGTGACTTTTACAAAGCGAAAGTTCGGATTGATGAAGAAAGCCTATG   100
BosT_MEF2A ATGGGGCGGAAGAAAATACAAATCACACGCATAATGGATGAAAGGAACCGACAGGTCACTTTTACAAAGAGAAAGTTTGGATTAATGAAGAAAGCCTATG   100
SusS_MEF2C ATGGGGAGAAAAAAGATTCAGATTACGAGGATTATGGATGAACGTAACAGACAGGTGACATTTACAAAGAGGAAATTTGGGTTGATGAAGAAGGCTTATG   100
EquC_MEF2C ATGGGGAGAAAAAAGATTCAGATTACAAGGATTATGGATGAACGTAACAGACAGGTGACATTTACGAAGAGGAAATTTGGGTTGATGAAGAAGGCTTATG   100
PonA_MEF2C ATGGGGAGAAAAAAGATTCAGATTACGAGGATTATGGATGAACGTAACAGACAGGTGACATTTACAAAGAGGAAATTTGGGTTGATGAAGAAGGCTTACG   100
HomS_MEF2C ATGGGGAGAAAAAAGATTCAGATTACGAGGATTATGGATGAACGTAACAGACAGGTGACATTTACAAAGAGGAAATTTGGGTTGATGAAGAAGGCTTATG   100
MusM_MEF2C ATGGGGAGAAAAAAGATTCAGATTACGAGGATAATGGATGAGCGTAACAGACAGGTGACTTTTACGAAGAGGAAATTTGGATTGATGAAGAAGGCTTATG   100
RatN_MEF2C ATGGGGAGAAAAAAGATTCAGATCACGAGGATTATGGATGAACGTAACAGACAGGTGACTTTTACAAAGAGGAAATTCGGACTGATGAAGAAGGCTTATG   100
BosT_MEF2C ATGGGGAGAAAAAAGATTCAGATTACGAGGATTATGGATGAACGTAACAGACAGGTGACGTTTACAAAGAGGAAATTTGGGTTGATGAAGAAGGCATACG   100
OviA_MEF2C ATGGGGAGAAAAAAGATTCAGATTACGAGGATTATGGATGAACGTAACAGACAGGTGACGTTTACGAAGAGGAAATTTGGGTTGATGAAGAAGGCATACG   100
SusS_MEF2D ATGGGGAGGAAAAAGATTCAGATCCAGCGAATCACTGATGAGCGGAACCGACAGGTGACATTCACCAAGAGGAAGTTCGGGCTGATGAAGAAGGCGTATG   100
EquC_MEF2D ATGGGGAGGAAAAAGATTCAGATCCAGCGAATCACTGATGAGCGGAACCGACAGGTGACATTCACTAAGCGGAAGTTCGGGCTGATGAAGAAGGCCTATG   100
PonA_MEF2D ATGGGGAGGAAAAAGATTCAGATCCAGCGAATCACCGATGAGCGGAACCGACAGGTGACTTTCACCAAGCGGAAGTTTGGCCTGATGAAGAAGGCGTATG   100
HomS_MEF2D ATGGGGAGGAAAAAGATTCAGATCCAGCGAATCACCGACGAGCGGAACCGACAGGTGACTTTCACCAAGCGGAAGTTTGGCCTGATGAAGAAGGCGTATG   100
MusM_MEF2D ATGGGGAGGAAAAAGATTCAGATCCAGCGAATCACTGATGAACGGAACCGCCAGGTGACCTTCACCAAGCGGAAGTTTGGACTGATGAAGAAGGCCTACG   100
RatN_MEF2D ATGGGGAGGAAAAAGATTCAGATCCAGCGAATCACTGATGAACGGAACCGCCAGGTGACATTCACCAAGCGGAAGTTTGGGCTGATGAAGAAGGCCTACG   100
BosT_MEF2D ATGGGGAGGAAAAAGATTCAGATCCAGCGAATCACCGATGAGCGGAACCGACAGGTGACGTTCACCAAGCGGAAGTTCGGGCTGATGAAGAAGGCGTACG   100
EquC_MEF2B ATGGGGAGGAAAAAAATCCAGATTTCACGCATTCTGGACCAAAGGAATCGGCAGGTGACATTTACCAAGCGGAAGTTCGGGCTGATGAAGAAAGCCTACG   100
PonA_MEF2B ATGGGGAGGAAAAAAATCCAGATCTCCCGCATCCTGGACCAAAGGAATCGGCAGGTGACATTCACCAAGCGGAAATTCGGGCTGATGAAGAAGGCCTATG   100
HomS_MEF2B ATGGGGAGGAAAAAAATCCAGATCTCCCGCATCCTGGACCAAAGGAATCGGCAGGTGACGTTCACCAAGCGGAAGTTCGGGCTGATGAAGAAGGCCTATG   100
MusM_MEF2B ATGGGGAGGAAAAAAATCCAGATCTCACGAATTCTAGACCAAAGGAACAGGCAGGTGACTTTCACCAAGCGCAAGTTCGGACTGATGAAGAAGGCTTATG   100
RatN_MEF2B ATGGGGAGGAAAAAAATCCAGATCTCACGCATTCTAGACCAAAGGAACAGGCAGGTGACTTTCACCAAGCGCAAGTTCGGGCTGATGAAGAAAGCTTACG   100
BosT_MEF2B ATGGGGAGGAAAAAAATTCAGATCTCACGCATTCTGGACCAAAGGAATCGGCAGGTAACATTCACCAAGCGAAAGTTCGGGCTGATGAAGAAGGCCTACG   100
           1.......10........20........30........40........50........60........70........80........90.......100
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           *  * ** ***** ** ***** ** ** ** ** ***** ******    *  *     * ** ** ** ** ****  ** *****    **  * **
SusS_MEF2A AACTTAGTGTGCTCTGTGACTGTGAAATAGCACTCATCATTTTCAACAGCTCTAACAAACTGTTTCAGTATGCCAGCACTGATATGGACAAAGTTCTTCT   200
EquC_MEF2A AACTTAGTGTGCTCTGTGACTGTGAAATAGCACTCATCATTTTCAACAGCTCTAACAAACTGTTTCAGTATGCCAGCACTGATATGGACAAAGTTCTTCT   200
PonA_MEF2A AACTTAGTGTGCTCTGTGACTGTGAAATAGCACTCATCATTTTCAACAGCTCTAACAAACTGTTTCAATATGCTAGCACTGATATGGACAAAGTTCTTCT   200
HomS_MEF2A AACTTAGTGTGCTCTGTGACTGTGAAATAGCACTCATCATTTTCAACAGCTCTAACAAACTGTTTCAATATGCTAGCACTGATATGGACAAAGTTCTTCT   200
MusM_MEF2A AACTCAGTGTGCTCTGTGACTGTGAAATAGCACTCATCATTTTCAACAGCTCTAATAAGCTGTTTCAGTACGCTAGCACTGACAAAGTCCTTCT   200
RatN_MEF2A AACTCAGTGTGCTCTGTGACTGTGAGATAGCACTCATCATCTTCAACAGCTCTAACAAGTTGTTTCAGTACGCCAGCACTGACATGGACAAAGTCCTTCT   200
BosT_MEF2A AACTTAGTGTGCTCTGTGACTGTGAAATAGCACTCATCATTTTCAACAGCTCTAACAAACTGTTTCAGTATGCCAGCACTGATATGGACAAGGTTCTTCT   200
SusS_MEF2C AGCTGAGCGTGCTGTGTGACTGTGAGATCGCGCTGATCATCTTCAACAGCACCAACAAGCTGTTCCAGTATGCCAGCACGGACATGGACAAGGTGCTGCT   200
EquC_MEF2C AGCTGAGCGTGCTGTGTGACTGTGAGATCGCGCTGATCATCTTCAACAGCACCAACAAGCTGTTCCAGTACGCCAGCACTGACATGGACAAGGTGCTGCT   200
PonA_MEF2C AGCTGAGCGTGCTGTGTGACTGTGAGATTGCGCTGATCATCTTCAACAGCACCAACAAGCTGTTCCAGTATGCCAGCACCGACATGGACAAAGTGCTTCT   200
HomS_MEF2C AGCTGAGCGTGCTGTGTGACTGTGAGATTGCGCTGATCATCTTCAACAGCACCAACAAGCTGTTCCAGTATGCCAGCACCGACATGGACAAAGTGCTTCT   200
MusM_MEF2C AGCTGAGCGTGCTGTGCGACTGTGAGATCGCACTGATCATCTTCAACAGCACCAACAAGCTGTTCCAGTACGCCAGCACTGACATGGATAAGGTGTTGCT   200
RatN_MEF2C AGTTGAGCGTGCTGTGCGACTGTGAGATTGCCCTGATCATCTTCAACAGCACCAACAAGCTGTTCCAGTACGCCAGCACCGACATGGACAAGGTGCTGCT   200
BosT_MEF2C AGCTGAGCGTGCTGTGTGACTGTGAGATTGCGCTGATCATTTTCAACAGCACCAACAAGCTGTTCCAGTACGCCAGCACGGACATGGACAAGGTGCTGCT   200
OviA_MEF2C AGCTGAGCGTGCTGTGTGACTGTGAGATCGCACTAATCATTTTCAACAGCACCAACAAGCTGTTCCAGTACGCCAGCACGGACATGGACAAGGTGCTGCT   200
SusS_MEF2D AACTGAGCGTGCTCTGCGACTGCGAGATCGCGCTCATCATCTTCAACCACTCCAACAAGCTGTTCCAGTACGCCAGCACGGACATGGACAAGGTGCTGCT   200
EquC_MEF2D AGCTGAGCGTGCTATGCGACTGCGAGATCGCGCTCATCATCTTCAACCACTCCAACAAGCTGTTCCAGTACGCCAGCACCGACATGGACAAGGTGCTGCT   200
PonA_MEF2D AGCTGAGTGTGCTATGTGACTGCGAGATCGCACTCATCATCTTCAACCACTCCAACAAGCTGTTCCAGTATGCCAGCACCGACATGGACAAGGTGCTGCT   200
HomS_MEF2D AGCTGAGCGTGCTATGTGACTGCGAGATCGCACTCATCATCTTCAACCACTCCAACAAGCTGTTCCAGTACGCCAGCACCGACATGGACAAGGTGCTGCT   200
MusM_MEF2D AGCTGAGTGTGCTGTGCGACTGCGAGATCGCGCTCATCATCTTCAACCACTCCAACAAGCTGTTCCAGTATGCCAGCACCGACATGGACAAGGTGCTGCT   200
RatN_MEF2D AACTGAGTGTGCTGTGCGACTGTGAGATCGCGCTCATCATCTTCAACCACTCCAACAAGCTGTTTCAGTACGCCAGCACCGACATGGACAAGGTGCTGCT   200
BosT_MEF2D AGCTGAGCGTGCTCTGTGACTGCGAGATCGCGCTCATCATCTTCAACCACTCCAACAAGCTGTTCCAGTACGCCAGCACGGACATGGACAAGGTGCTGCT   200
EquC_MEF2B AGCTGAGCGTGCTCTGCGACTGTGAGATTGCCCTCATCATCTTCAACAGCGCCAACCGCCTCTTCCAGTACGCCAGCACAGACATGGACCGCGTGCTCCT   200
PonA_MEF2B AACTGAGCGTGCTCTGTGACTGTGAGATAGCCCTCATCATCTTCAACAGTGCCAACCGCCTCTTCCAGTATGCCAGCACAGACATGGACCGCGTGCTGCT   200
HomS_MEF2B AGCTGAGCGTGCTCTGTGACTGTGAGATAGCCCTCATCATCTTCAACAGCGCCAACCGCCTCTTCCAGTATGCCAGCACGGACATGGACCGTGTGCTGCT   200
MusM_MEF2B AGCTGAGCGTGCTTTGTGACTGCGACATTGCCCTCATCATCTTCAACAGCGCGCAACGCCTCTTCCAGTATGCGAGCAGCGACATGGACCGGGTGCTGCT   200
RatN_MEF2B AGTTGAGCGTGCTTTGTGACTGCGACATCGCGCTGATCATCTTCAACAGCGCGCAGCGCCTCTTCCAGTATGCGAGCAGCGACATGGACCGGGTGCTGCT   200
BosT_MEF2B AGCTGAGCGTGCTCTGCGACTGCGAGATCGCCCTCATCATCTTCAACAGCTCCAACCGCCTCTTCCAGTACGCCAGCACAGACATGGACCGGGTGCTTCT   200
           .......110.......120.......130.......140.......150.......160.......170.......180.......190.......200
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           ** ** ** ** ** *  ** ** ** ** *** * ** *   * ** **  *  ** *  * *    **  *
SusS_MEF2A CAAGTATACAGAATATAATGAACCTCACGAGAGCGGAACCAACTCGGATATTGTTGAGGCTCTGAACAAGAAGGAA   276
EquC_MEF2A CAAGTATACAGAATATAATGAACCTCATGAAAGCAGAACCAACTCGGATATTGTTGAGGCTCTGAACAAGAAGGAA   276
PonA_MEF2A CAAGTATACAGAATATAATGAACCTCATGAAAGCAGAACCAACTCGGATATTGTTGAGACTTTAAGAAAGAAAGGC   276
HomS_MEF2A CAAGTATACAGAATATAATGAACCTCATGAAAGCAGAACCAACTCGGATATTGTTGAGACTTTAAGAAAGAAAGGC   276
MusM_MEF2A CAAATACACTGAGTATAACGAGCCTCATGAAAGCAGGACGAACTCGGATATCGTTGAGACGTTAAGAAAGAAAGGC   276
RatN_MEF2A CAAGTACACCGAGTACAACGAGCCTCATGAAAGCAGGACGAACTCGGATATTGTGGAGGCTCTGAACAAGAAGGAA   276
BosT_MEF2A CAAGTATACGGAATATAATGAACCTCACGAAAGCAGAACCAACTCGGATATTGTTGAGGCTCTGAACAAGAAGGAA   276
SusS_MEF2C CAAGTACACGGAGTACAACGAGCCGCACGAGAGCCGGACGAACTCAGACATCGTGGAGACGTTGAGAAAGAAGGGC   276
EquC_MEF2C CAAGTACACGGAGTACAACGAGCCGCACGAGAGCCGGACGAACTCAGACATCGTGGAGACGTTGAGAAAGAAGGGC   276
PonA_MEF2C CAAGTACACGGAGTACAATGAGCCGCATGAGAGCCGGACAAACTCAGACATCGTGGAGACGTTGAGAAAGAAGGGC   276
HomS_MEF2C CAAGTACACGGAGTACAACGAGCCGCATGAGAGCCGGACAAACTCAGACATCGTGGAGACGTTGAACAAGAAAGAA   276
MusM_MEF2C CAAGTACACCGAGTACAACGAGCCGCACGAGAGCCGGACAAACTCAGACATTGTGGAGACATTGAGAAAGAAGGGC   276
RatN_MEF2C CAAGTACACCGAGTACAACGAGCCGCACGAGAGCCGGACAAACTCGGACATTGTGGAGACATTGAGAAAGAAGGGC   276
BosT_MEF2C CAAGTACACCGAGTACAACGAGCCGCACGAGAGCCGGACGAACTCAGACATCGTGGAGACGTTGAGAAAGAAGGGC   276
OviA_MEF2C CAAGTACACGGAGTACAACGAGCCGCACGAGAGCCGGACGAACTCGGACATCGTGGAGACGTTGAGAAAGAAGGGC   276
SusS_MEF2D CAAGTACACGGAGTACAACGAGCCGCACGAGAGCCGAACCAACGCCGACATCATCGAGACCCTGAGGAAGAAGGGC   276
EquC_MEF2D CAAGTATACAGAGTACAACGAGCCGCACGAGAGCCGCACCAACGCCGACATCATCGAGACCCTGAGGAAGAAGGGC   276
PonA_MEF2D CAAGTACACGGAATACAATGAGCCACACGAGAGCCGCACCAACGCCGACATCATCGAGACCCTGAGGAAGAAGGGC   276
HomS_MEF2D CAAGTACACGGAGTACAATGAGCCACACGAGAGCCGCACCAACGCCGACATCATCGAGACCCTGAGGAAGAAGGGC   276
MusM_MEF2D CAAGTACACCGAGTACAACGAGCCACACGAGAGCCGCACCAATGCTGACATCATCGAGACCCTGAGGAAGAAGGGT   276
RatN_MEF2D CAAGTACACGGAGTACAACGAGCCGCATGAGAGCCGCACCAATGCTGACATCATTGAGACCCTGAGGAAGAAGGGT   276
BosT_MEF2D CAAGTACACGGAGTACAACGAGCCCCATGAGAGCCGCACCAACGCCGACATCATCGAGACCCTGAGGAAGAAGGGC   276
EquC_MEF2B CAAGTACACGGAGTACAGTGAGCCCCACGAGAGCCGCACCAACACCGACATCCTCGAGACACTGAAGCGGAGGGGT   276
PonA_MEF2B GAAGTACACGGAGTACAGTGAGCCCCACGAGAGCCGCACCAACACTGACATCCTCGAGACGCTGAAGCGGAGGGGC   276
HomS_MEF2B GAAGTACACAGAGTACAGCGAGCCCCACGAGAGCCGCACCAACACTGACATCCTCGAGACGCTGAAGCGGAGGGGC   276
MusM_MEF2B CAAATACACCGAGTACAGTGAGCCGCACGAGAGCCGCACCAACGCGGATATCCTTCAGACACTGAAGAGGAGGGGC   276
RatN_MEF2B CAAATACACCGAGTACAGCGAGCCGCACGAGAGCCGCACGAACGCGGATATCTTGCAGACACTGAAGAGGAGGGGA   276
BosT_MEF2B GAAGTACACGGAGTACAGCGAGCCCCACGAGAGCCGCACCATCACCGACATCCTCGAGACACTGAAGCGGAGGGGT   276
           .......210.......220.......230.......240.......250.......260.......270......
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