

*conservation*

ODAM'IP ACATTCTCTAGTGAGCTCTCTCAGCTTGTCTTCAGCTCCAATCCTCCGCCAGCAGCTTGAATAATGCCAGTAA 80  
 ODAM'LW .....GGCATTTGCACTTGTGCCCTATCTACCAGCCAAATTGGAATAATTGCAAGTAA 56  
 ODAM'PP ATCTTTCCATGGCTGGTCTTCTCAGCATTGCACTTGTGCCCTATCTACCAGCCAAATTGGAATAATTGCAAGTAA 95  
 ODAM-CI GTCTTTCCATGGCTGGTCTTCTCAGCATTGCACTTGTGCCCTATCTACCAGCCAAATTGGAATAATTGCAAGTAA 95  
 ODAM-DR ACCTTTCCATGGCTGGTCTTCTCAGCATTGCACTTGTGCCCTATCTACCAGCCAAAGTTGGACTAATAGCAAGCAA 95  
 ODAM-PN ACCGTTCCATTGGCTGGTCTTCTCAGCGTGTGCACTAGCGCTCCTATCTACAGCCGGCTCGGAATAATTGCAAGTAA 95  
 ODAM-C1'CC ATCTTTCCATGGCTGGTCTTCTCAGCATTGCACTTGTGCCCTATCTACCATCCACAAATTGGAATAATTGGAAGTAA 95  
 ODAM-C2'CC ATCTTTCCATGGCTGGTCTTCTCAGCATTGCACTTGTGCCCTATCTACCAGCCACAAATTGGAATAATTGCAAGTAA 95  
 ODAM-C1'SA ATCTTTCCATGGCTGGTCTTCTCAGCATTGCACTTGTGCCCTATCTACAGCCACAAATTGGAATAATTGCAAGTAA 95  
 ODAM-C2'SA ATCTTTCCATGGCTGGTCTTCTCAGCATTGCACTTGTGCCCTATCTACAGCCACAAATTGGAATAATTGCAAGTAA 95  
 ODAM-SR GTCTTTCCATGGCTGGTCTTCTCAGCATTGCACTTGTGCCCTATCTACAGCCACAAATTGGAATAATTGCAAGTAA 95  
 ODAM-C1'SG ATCTTTCCATGGCTGGTCTTCTCAGCATTGCACTTGTGCCCTATCTACAGCCACACATTGGAATAATTGCAAGTAA 95  
 ODAM-C2'SG

*conservation*

ODAM'IP !CAGCAATGAGATTGTGCGCCTCCAGACTCACCGCTCGCCGGTGGGACAACACAAAGGCACAGTTCCTCT 160  
 ODAM'LW CAGTAACGAGGTTTTCGCGTCTCAATGAGACTCACCTGGCAGGGTTGGGCTGGGTCAGGCACAGGGTACCCATTTC 136  
 ODAM'PP CAGTAATGAGGTTTTCGCGTCTCAATGAGACTCACCTAGCAGGGTGGGTTGGGCTGGGTCAGGCACAGGGTACCCATTTC 175  
 ODAM-CI CAGTAATGAGGTTTTCGCGTCTCAATGAGACTCACCTAGCAGGGTGGGTTGGGCTGGGTCAGGCACAGGGTACCCATTTC 175  
 ODAM-DR CAGTAATGAGGTTTTCGCGTCTTAATGCTTCACCCCTGGCAGGGCATGGGTTGGGCTGGGTCAGGCACAGGGTACCCATTTC 175  
 ODAM-PN CAGCAACGAGGTTTTCGCGTCTCAATGAGACTCACCTGGCAGGGTGGGTTGGGCTGGGTCAGGCACAGGGGAGCACCTTTCTAT 175  
 ODAM-C1'CC CAGTAATGAGGTTTTCGCGTCTCAATGAGACTCACCTGGCAGGGTGGGTTGGGCTGGGTCAGGCACAGGGAAACAGCATTTC 175  
 ODAM-C2'CC CAGTAATGAGGTTTTCGCGTCTCAATGAGACTCACCTGGCAGGGTGGGTTGGGCTGGGTCAGGCACAGGGAAACAGCATTTC 175  
 ODAM-C1'SA CTCAGCTAAGGTTTTCGCGTCTCAATGAGACTCACCTGGCAGGGTGGGTTGGGCTGGGTCAGGCACAGGGAAACAGCATTTC 118  
 ODAM-C2'SA CAGTAATGAGGTTTTCGCGTCTCAATGAGACTCACCTGGCAGGGTGGGTTGGGCTGGGTCAGGCACAGGGAAACAGCATTTC 175  
 ODAM-SR CAGTAATGAGGTTTTCGCGTCTCAATGAGACTCACCTGGCAGGGTGGGTTGGGCTGGGTCAGGCACAGGGAAACAGCATTTC 175  
 ODAM-C1'SG CAGTAATGAGGTTTTCGCGTCTCAATGAGACTCACCTGGCAGGGTGGGTTGGGCTGGGTCAGGCACAGGGAAACAGCATTTC 175  
 ODAM-C2'SG CAGTAATGAGGTTTTCGCGTCTCAATGAGACTCACCTGGCAGGGTGGGTTGGGCTGGGTCAGGCACAGGGAAACAGCATTTC 175

*conservation*

ODAM'IP !CTCCGTTCTCTGATCCAGTCCAGCTGATCTCCGTATGCTCCCTGATGCTCTCACCTGCTGAATTTCGGTCTCAGTTCCGGGTCAG 240  
 ODAM'LW CCCCTACCTGATCCAGCAGCAG.....CCCCCTACCTGATCCAGCAGCAG.....CCCCCTACAGGTGCTGAACCTTAACCTCTGGTTTCAAGGACCC 201  
 ODAM'PP CCCCTACCTGATCCAGCAGCAG.....CCCCCTACCTGATCCAGCAGCAG.....CCCCCTACAGGTGCTGAACCTTAACCTCTGGTTTCAAGGACCC 237  
 ODAM-CI CTCCGATTCTGATCCAGCAGCAG.....CCCCCTACCTGATCCAGCAGCAG.....CCCCCTACAGGTGCTGAACCTTAACCTCTGGTTTCAAGGACCC 240  
 ODAM-DR CTCCGATTCTGATCCAGCAGCAG.....CCCCCTACCTGATCCAGCAGCAG.....CCCCCTACAGGTGCTGAACCTTAACCTCTGGTTTCAAGGACCC 240  
 ODAM-PN CACCAATTCTAACCTCAGACGCAGCTGAAATCCTGCTGCTCCCTCAGTITCTGAACCTTGGCCCCCAGCTGCCGGGACCC 255  
 ODAM-C1'CC CTCCGTTCTCTGATCCAGCAGCAG.....CCCCCTACCTGATCCAGCAGCAG.....CCCCCTACAGGTGCTGAACCTTAACCTCTGGCTATGCAGGGACCC 240  
 ODAM-C2'CC CTCCGTTCTCTGATCCAGCAGCAG.....CCCCCTACCTGATCCAGCAGCAG.....CCCCCTACAGGTGCTGAACCTTAACCTCTGGCTATGCAGGGACCC 240  
 ODAM-C1'SA CTCCGTTCTCTGATCCAGCAGCAG.....CCCCCTACCTGATCCAGCAGCAG.....CCCCCTACAGGTGCTGAACCTTAACCTCTGGCTATGCAGGGACCC 183  
 ODAM-C2'SA CTCCGTTCTCTAACCTCGGCAGCAG.....CCCCCTACAGGTGCTAAACCTCAACCTCTGGCTATGCAGGGACCC 240  
 ODAM-SR CTCCGTTCTCTAACCTCGGCAGCAG.....CCCCCTACAGGTGCTGAACCTTAACCTCTGGCTATGCAGGGACAC 240  
 ODAM-C1'SG CTCCGTTCTCTGATCCAGCAGCAG.....CCCCCTACAGGTGCTCAACCTTAACCTCTGGCTATGCAGGGACCC 240  
 ODAM-C2'SG CTCCGTTCTCTGATCCAGCAGCAG.....CCCCCTACAGGTGCTGAACCTTAACCTCTGGCTATGCAGGGACCC 240

*conservation*

ODAM'IP !!!TTOCTGACCCCCAACACAGAAC.....CTGCCCCCGTTACTGCTGCCCTCTTTCAGGAAAGAGCAGCCACAGGGTCAAACAA 317  
 ODAM'LW TTCTTTCCCCCTCAAAATAAAC.....CCAGCACAGATGCCCTGGTCAAGGAGCAGCCTATAACCTGGCTTCGG 272  
 ODAM'PP TTCTTTCCCCCTCAAAATAAACCCACTGAACCCAGCACAGTTGCCCTGGTCAAGGAGCAGCCTATAACCTGGCTTCGG 317  
 ODAM-CI TTCTTTCCCCCTCAAAATAAACCAGCTGAACCCAGCACAGTTGCCCTGGTCAAGGAGCAGCCTATAACCTGGCTTCGG 320  
 ODAM-DR TTCTGCCCCCTCAGATTAAAC.....CCGCTCAGATCCCTCCTACTGCAGCAGGACCATCTGTGCCGGTCTGG 311  
 ODAM-PN TTCTCTACCAACAGCAGAAC.....CAAATGCCCAAGTATTGCTGCCCTCAATCAGGAGAACACAGCAGACA...GCTCTTAA 332  
 ODAM-C1'CC TTCTGCCCCCTCAAAATAAACCAGCTGAACCCAGCACAGTTGCCCTGGTCAAGGAGCAGCCTATAACCTGGCATATT 320  
 ODAM-C2'CC TTCTGCCCCCTCAAAATAAACCAGCTGAACCCAGCACAGTTGCCCTGGTCAAGGAGCAGCCTATAACCTGGCATCGG 320  
 ODAM-C1'SA TTCTGCCCCCTCAAAATAAACCAGCTGAACCCAGCACAGTTGCCCTGGTCAAGGAGCAGCCTATAACCTGGCATCAT 263  
 ODAM-C2'SA TTCTGCCCCCTCAAAATAAACCAGCTGAACCCAGCACAGTTGCCCTGGTCAAGGAGCAGCCTATAACCTGGCATATTGG 320  
 ODAM-SR TTCTGCCCCCTCAAAATAAACCAGCTGAACCCAGCACAGTTGCCCTGGTCAAGGAGCAGCCTATAACCTGGCATTTGG 320  
 ODAM-C1'SG TTCTGCCCCCTCAAAATAAACCAGCTGAACCCAGCACAGTTGCCCTGGTCAAGGAGCAGCCTATAACCTGGCATCAT 320  
 ODAM-C2'SG TTCTGCCCCCTCAAAATAAACCAGCTGAACCCAGCACAGTTGCCCTGGTCAAGGAGCAGCCTATAACCTGGCATATTGG 320

*conservation*

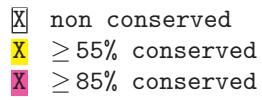
ODAM'IP \*CCCCAACACCCCTCCCCTCAAAACAGAAC.....GGCTTTCCATTCTCTCTGACGAATCTATATCCTATCTGAGAA 397  
 ODAM'LW CCCCAATAACGGGCTTACCAAGCACAGAACCCCTCCCTCCG.....GGCTTTCCATTCTCTCTGACGAATCTATATCCTATCTGAGAA 349  
 ODAM'PP TCCCAACAATGGCATACCGAGCACAGAACCCCTCCCTCCG.....GGCTTTCCATTCTCTCTGACGAATCTATATCCTATCTGAGAA 394  
 ODAM-CI TCCCAATAACGGGCTTACCAAGCACAGAACCCCTCCCTCCG.....GGCTTTCCATTCTCTCTGACGAATCTATATCCTATCTGAGAA 397  
 ODAM-DR TCCCAACAACGGGCTTACCAAGCACAGAACCCCTCCCTCCG.....GGCTTTCCATTCTCTCTGACGAATCTATATCCTATCTGAGG. 387  
 ODAM-PN CCCCCAACACCCCTCAAAACAGAAC.....GGCTTCCCGTATTATACCTCTCCAGGTTTCCCTCCAAAGGA 409  
 ODAM-C1'CC TCCCAACAACGGGTTACCAAGCACAGAACCTCCCTCCG.....GGTTTCCATTCTCTCTGACTAATCTATATCCTATCTGAGGA 397  
 ODAM-C2'CC TCCCAACTATGGCATACCGAGCACAGAACCTCCCTCCG.....GGATTTCCTCTCTCTGACTAATCTATATCCTCCAGGAGGA 397  
 ODAM-C1'SA TCCCAACAACGGGTTACCAAGCACAGAACCTCCCTCCG.....GGCTTCCATTCTCTCTGACTAATCTATATCCTCTGAGGA 340  
 ODAM-C2'SA TCCCAACAATGGCTTACCAACACAGAACCTCCCTCCG.....GGATTTCCTCTCTGACTAATCTATATCCTCTGAGGA 397  
 ODAM-SR TCCCAACAATGGCTTACCAACACAGAACCTCCCTCCG.....GGCTTCCATTCTCTCTGACTAATCTATATCCTCTGAGGA 397  
 ODAM-C1'SG TCCCAACAACGGGTTACCAAGCACAGAACCTCCCTCCG.....GGATTTCCTCTCTGACTAATCTATATCCTCCAGGAGGA 397  
 ODAM-C2'SG TCCCAACAATGGCTTACCAACACAGAACCTCCCTCCG.....GGATTTCCTCTCTGACTAATCTATATCCTCTGAGGA 397

*conservation*

ODAM'IP \*ACACGCTGCCCATTCTCCGCCCCATACAGAAC.....GCTAATAAAAATATGCCAATCGAACCCAGTCGGGCC 471  
 ODAM'LW ACACCTGTAAGGTTGATAACCAACCCAGAACCTGGCCCAAATATTCAAGGCCACCTACGATGCCAACAGTCAGCAACCA 429  
 ODAM'PP ACACCTGTAAGGCTGATAACCAACCCAGAACCTGGCCCAAATATTCAAGGCCACCTACGATGCCAACAGTCAGCAACCA 474  
 ODAM-CI ACACCTGTAAGGCTGATAACCCAGAACCTGGCCCAAATATTCAAGGCCACCTACGATGCCAACAGTCAGCAACCA 474  
 ODAM-DR ..ACTCCTGTACAGCTGATGCC.....AACATTGGACCAACATTCAAGGCCACCTACGATGCCAACAGTCAGCAACCA 459  
 ODAM-PN AC...CCAATAGTTCCACCTCAAGGAACCCACTACTGCCAACCAACAAAAACAGCCTGACAGAACACTGAGGCC 486  
 ODAM-C1'CC ACACCTGTAAGGACTGACACCAACCCAGAACACTGGCCCAAGTGTCAAGGCCAGCACCATGCAACCAATGCAAGCCA 477  
 ODAM-C2'CC ACACCTGTAAGGCTGATAACCAACCCAGAACCTGGCCCAAAGTATTCAAGGCCAGGACAGGATGCAACCAATGCAAGCCA 477  
 ODAM-C1'SA ACACCTGTAAGGACTGACACCAACCCAGAACCTGGCCCAAAGTGTCAAGGCCAGGACACCATGCAACCAATGCAACCA 420  
 ODAM-C2'SA ACACCTGTAAGGCTGATAACCAACCCAGAACCTGGCCCAAAGTATTCAAGGCCAGGACACCATGCAACCAATGCAACCA 477  
 ODAM-SR ACACCTGTAAGGACTGACACCAACCCAGAACCTGGCCCAAAGTGTCAAGGCCAGGACACCATGCAACCAATGCAACCA 477  
 ODAM-C1'SG ACACCTGTAAGGACTGACACCAACCCAGAACCTGGCCCAAAGTGTCAAGGCCAGGACACCATGCAACCAATGCAACCA 477  
 ODAM-C2'SG ACACCTGTAAGGCTGATAACCAACCCAGAACCTGGCCCAAAGTATTCAAGGCCAGGACACCATGCAACCAATGCAACCA 477

conservation      475      480      485      490      495      500      505      510      515  
 ODAM'IP      AACGGAAGGTGGTGGAAACGGGAAAGCTTCCTCC  
 ODAM'LW      AGGGTAAGGCAGTAGAAGGGTAAGGCAGTAGA  
 ODAM'PP      AGGGTAAGGCAGTAGAAGGGTAAGGCAGTAGA  
 ODAM-CI      AGGGTAAGGCAGTAGAAGGGTAAGGCAGTAGA  
 ODAM-DR      AGAGGGAAATTGGCAGAACGGGAAACCTTCCTCC  
 ODAM-PN      AACAGGGGAAAGTCAGAACAGGGGAAAGTCAGA  
 ODAM-C1'CC      AACAGGGGAAAGTCAGAACAGGGGAAAGTCAGA  
 ODAM-C2'CC      AGCCAGGGAAAGTCAGAACAGGGGAAAGTCAGA  
 ODAM-C1'SA      ATGGAGCGCACATGACTCGGCCCTGAAAACCGTGGTGATCGTCCTGGCGTGTT  
 ODAM-C2'SA      AACAGGGGAAAGTCAGAACAGGGGAAAGTCAGA  
 ODAM'SR      AACAGGGGAAAGTCAGAACAGGGGAAAGTCAGA  
 ODAM-C1'SG      ATACA  
 ODAM-C2'SG      AACAGGGGAAAGTCAGAACAGGGGAAAGTCAGA

conservation      520      525      530      535      540      545      550      555      560      565      570  
 ODAM'IP      GCCGTGGCACATGACTCGGCCCTGAAAACCGTGGTGATCGTCCTGGCGTGTT  
 ODAM'LW      CCCG...ATGGTAACGTCTGCTCCTGATTACCGTGGTGATCGGCCCGGTCTGGAA  
 ODAM'PP      CCCG...ATGGTAACGTCTGCTCCTGATTACCGTGGTGATCGGCCCGGTCTGGAA  
 ODAM-CI      CCCG...AAGGTAACGTCTGCTCCTGATTACCGTGGTGATCGGCCCGGTCTGGAA  
 ODAM-DR      CCCG...AAAGCAACGTCTGCTGAAATACCGGGGTGATCGACCCGGTCTGGAA  
 ODAM-PN      TCGT...GTTGGCCAGCGTCCTCCACTTGGC  
 ODAM-C1'CC      CCCG...AAGGTAACGTCTGCTCCTGATTACCGTGGTGATCGGCCCGGTCTGGAA  
 ODAM-C2'CC      CCCG...AAGGTAACGTCTGCTCCTGATTACCGTGGTGATCGGCCCGGTCTGGAA  
 ODAM-C1'SA      CCCG...AAGGTAACGTCTGCTCCTGATTACCGTGGTGATCGGCCCGGTCTGGAA  
 ODAM-C2'SA      ACCAATCCAGGTAACGTCTGCTCCTGATTACCGTGGTGATCGGCCCGGTCTGGAA  
 ODAM'SR      AACGGGAAAGTCAGAACAGGGGAAAGTCAGA  
 ODAM-C1'SG      AACGGGAAAGTCAGAACAGGGGAAAGTCAGA  
 ODAM-C2'SG      AACGGGAAAGTCAGAACAGGGGAAAGTCAGA


 non conserved  
 ≥ 55% conserved  
 ≥ 85% conserved