

Tools (/Tools/) > Multiple Sequence Alignment (/Tools/msa) > MUSCLE

Results for job muscle-I20200301-015410-0379-9811389-p2m

CLUSTAL multiple sequence alignment by MUSCLE (3.8)

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human_circ-Tulp4      ATTTGTAAGA-----CTCCAGGGCCTCCCAGCCGTGAATAATCTGATGGTTCCTGAAATGA
mouse_circ-Tulp4     AGTTGTAAGAGTCCATCCAGGACCTTCCAGTCATGAATAATCTGATGGCTCCTGAATTAA
* *****          ***** *** **** * ***** ***** ***** * *
human_circ-Tulp4      CTGGGGAAGCAGACGCTTCGTATGGCAGTTGAAGAGTGTGTGTCTATGTGCATTTAAAC
mouse_circ-Tulp4     CCGGAAAACAAACATATCAAGTGCCATTTGAAGACTCTGTCTATCTATG----TAAAC
* *** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** ** **
human_circ-Tulp4      CTTCTTTCTGTACTTACA--CATTACACGGGAAGACAGGCTCATTCTTGTGCACACTTG
mouse_circ-Tulp4     CT--TTTCTGCACATAGAAGCTTTTCCATAAGAAGA-----CATTCT-----
** ***** ** ** * * ** ** ***** *****
human_circ-Tulp4      AGAGTTTTACAACCTGATGAAAATTAATTTAAGAATCAGATGGAGCAACTTGACACCAGTG
mouse_circ-Tulp4     -GAATTTTGCAACTGATGAAGA-----TTAAGCATCAGCTGGAGCACCTTCCACTGTTG
** *** ***** * ***** ***** ***** ** ** **
human_circ-Tulp4      GGCTCAGGAGCCCAGGAGAAAAATACATCACTAATGGCCAGTTTTCCATATGGTCTGCA
mouse_circ-Tulp4     GGGTTGGGAGTCTGTGGAGAACAGTCTGTCACTAATGTCAGATTTTCTTACAGTGTTC
** * **** * * ***** * * ***** * ***** ** ** * **
human_circ-Tulp4      CGGGT-AAAGAAAGTCTGCAAAAAGAAGAAAAAATTTGCGCAGATTAACCAAAAA
mouse_circ-Tulp4     TAAACAAAAGCCAGTTTGCA-----AAAGAAAAAATTGCACAGATTAACCCTAAAGA
***** ** ***** ** ***** ***** ***** ** ** *
human_circ-Tulp4      ATATTCTCCAGTTTAAAGAAGGAACTAAGTGAGAAGGTGACTGAGAAAGAAGTGTGATTT
mouse_circ-Tulp4     ATA-GCTCCAGTGTAAAGCAGGGGAGACC-----
*** ***** ***** ** * *
human_circ-Tulp4      CAAACATTGCAGCGGCTCACACAGTGTGTTGTTGCACTTTATTTTTCAGTGGGTTTGGTGA
mouse_circ-Tulp4     -----
human_circ-Tulp4      TTTGGACGGATTAATAATTCTAGACTGAAA---AGTAACTCCTACTGTGGTTATGGCTAGA
mouse_circ-Tulp4     -----TTAAACTCTGAACCGGAGCTCAGTACTTTTCTGTGGTTGTAGCAGGA
***** ** ** * * ***** * ** **
human_circ-Tulp4      GGAAAGCAAGTTCAAGTATGATGGGACAAGTTTGAATAATGAAGTATTCTTTGCCTAT
```

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mouse_circ-Tulp4 G-----TGAGGGGACTGATCTGA--AAGGAACAGATTCCTTTG--TGT
*                                     *** ***** * *** ** ***** ***** * *
human_circ-Tulp4 CTTAATTAAGTATTGAGAAATTTAATTTATTATTCCCCCTTT--TTTCTGCATC
mouse_circ-Tulp4 CTT-----CAGCTATCGGAAGTTTTTTATTTATTGTTTATCTTTTTTCTTTTCTGCATA
*** * * * * * ***** ***** * * * * * ** *
human_circ-Tulp4 TATAGGATAATATTGTAATAAGCAATTGAAACCAATAATTATTAATAAATATCAAGGA
mouse_circ-Tulp4 TAT---ATGCCATTTTAAATACTAATTGGAAGTGTGAGTTACAAAATAAATATCAAGAA
*** ** * * * * * ***** ***** * * * * * ***** ***** *
human_circ-Tulp4 AAATCCAAGCAAAGCTTTCTTTTTGTTGGACTAGTGGTGTGGTGTGGGAGACAGTCTCT
mouse_circ-Tulp4 AAGCC-----TTTTTGGTCCAAAGGTGTG-----AACAGGCT-T
** * * * * * * * * * * * * * * * * * * * * *
human_circ-Tulp4 GAATGTGAACAGGAAAGCACCCATCAGCAAAACACTATCACTCTCTAGGGAGACAG----
mouse_circ-Tulp4 GCAGGTGAACAGGAAGACATCT--TTGGTAAAGC-TTGGACCGTCTTGGGAGATGGTGCA
* * ***** ** * * * * * * * * * * * * * * * *
human_circ-Tulp4 --CTGGGGGAATCTGACTCTGGCTTCTGCTTTGTTTTAAGGGATTAACCTCCCTGTCAA
mouse_circ-Tulp4 TCTTGGAGGGCTCTGCTACAGCCTAGGTGGCTGTTTTAAGGCTTGCAT-----
* * * * * * * * * * * * * * * * * * * * *
human_circ-Tulp4 GTCCAAGAAGACTTGCATGAGAAGATTACCTGATGGACTTAATTCTAAGATTAGCTTT
mouse_circ-Tulp4 -----CGCAGACGGAGACTAATTAATAGACACAGTTCTAAGATTG--CTT
* * * * * * * * * * * * * * * * * * * * *
human_circ-Tulp4 TTTCATCAAGATGGAAAAGATCTTTAGGAGCAGAAAAGGGGAGTGCTAACTGGGGGAGC
mouse_circ-Tulp4 TTTCATTAACATAGAAA-----CTA-----
***** ** * * * * * * * * * * *
human_circ-Tulp4 GAGAAGGGAGACGAGCAAAGAAAACAAATCTTGCCACGTGGCTCTGTTTTGTGACGAA
mouse_circ-Tulp4 GAGAAAGG-----AGAAACAGAAGCCTGCAGCCTAG-TCTG---TGTAAGCAAG
***** ** * * * * * * * * * * * * * * * *
human_circ-Tulp4 AGGATTTAAGACTCACCCAGGGCAAACACTGGGACCACTGTAAGAGCG-----
mouse_circ-Tulp4 AAG---TAGGACCAAAGTACTGGAACTACTTGGTCCATTTAGATAGCAGTTTATTCATAC
* * * * * * * * * * * * * * * * * * * * *
human_circ-Tulp4 -----CTGGAACATTCTGCCT---CTTGAGTGAAGGGCCTTCTTTCTAGCCTCTAT
mouse_circ-Tulp4 TCAGTGACCCGAGGCCTCCACCTCTGCTTGGAGGAAGGG---CTTGGCTCCAGTCTCTGT
* * * * * * * * * * * * * * * * * * * * *
human_circ-Tulp4 GGCAGTGAAGGGTGCAGCGGCTGGTGGAGGAGCAGTCCGATGGAGCCCTGCGTTCCCGG
mouse_circ-Tulp4 GGCAGTGAAGGGTGGTCCAGCCATGGAGGAGTCACTTAGGAAGCCCTGTGTT--CCTAG
***** * * * * * * * * * * * * * * * * *
human_circ-Tulp4 GGACACAGGGCCAAGCTTTGAGGTGGAAAGTTTCTGGTTCTGAAACAACAAGGAGAGAGT
mouse_circ-Tulp4 GGACACAGGGCCAGGCTTTGAGACAGGAAGCTTCTGGCTGTGAGCAGTGGGGGAAAGAG-
***** ***** * * * * * * * * * * * * * * *
human_circ-Tulp4 CTGTTTTTCTTCTAAAATTTGGACTCTTGCTGCACAACTCTGGTCTG-TTTTGCACG
mouse_circ-Tulp4 -TGATTTTCTTGTTAAAGCTTTGACCATTGTCTGCATGAGCTCTGGTGTGACTTTGCAC-
* * * * * * * * * * * * * * * * * * * * *
human_circ-Tulp4 GTTTGTGTGCCTTTTTTTCCCTTTATGCAATCTTTTTAGCCTTTAGCAGCAGAAATTTGT
mouse_circ-Tulp4 GTTAGTGTGCC----TTTCCCTTATGCAACCTTTTCCAGCTT--ACAGCAGAACTTGC
*** ***** ***** ***** ***** ***** *****
human_circ-Tulp4 CTAGTTCAGGAAACATGCTAGAGGGTGGCTTCAGAAGGAAGATGATCCTGTGTATTCTGT
mouse_circ-Tulp4 CGAGTTCAGAAAACGTGCCAGAGGGTGGCTTCAGAGGGAAGATGATCCTGTGTGATCAGT
* ***** ** * * * * * * * * * * * * * * * *
human_circ-Tulp4 CTCTGCATCCGAACTTTTGAAGAGAAAATTCAGCTAGAGGGATTCTTAAGCCTTAAG
mouse_circ-Tulp4 CTCTGCATCCGAACATTGAATAGAGAAATCC-AGCTAGAGGAATTCTTACCGCCTTAAG
***** ***** ***** ** * * * * * * * * * * *
human_circ-Tulp4 TTACTTGAATCTATGATTTGCAACCTTTGTCTCTGGAATCATATTAC--ACTAACT
mouse_circ-Tulp4 TTACTTGAATCTATGTTTGTAAACCTTTGTCTCTGGAATTACATACAAAAAACT

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human_circ-Tulp4
mouse_circ-Tulp4

GGAATCTCAGGCTGAATGAGAATAACCAAGTGGAGTAAAAA-GAAGAAAACCGTTTCTTG
GGAATCTCAGGC-----TGAGAATAACGAGGCTGAGTAAAAGCGAAGAGAAGTGCCTCTTC
***** **

human_circ-Tulp4
mouse_circ-Tulp4

ATCACCACCTTAATTAACGATGCTCTTTCTCCAAAGGATCAGCACGTTCTTCTCTGAGAA
ATCATCACTT-ACTAACA--GCTCTTTCTCCAAAGGATTGGTGTGGTTTCCCGCTAAGAA
**** ** * **

human_circ-Tulp4
mouse_circ-Tulp4

CTTGAAAATACAAATGGACCCCATGTTTTTTAAGCATTACCTTTTCTTAGAAGACTGCC
CTTGAAAATGAGAACGGACCTGTGTATTTTTAGGCATTACC-TTTCTTCGCCGACTGA-
***** **

human_circ-Tulp4
mouse_circ-Tulp4

ATCATCTTTTATAGAGGAATTTTTTCACTATGCATTCGGTGGATCTTTATAAAATACTGA
--CGTCTTTTATAGAGGAGTTTTTCACTATGCATTTGGTGGAGCTTTATAAGCTATTGA
* ***** **

human_circ-Tulp4
mouse_circ-Tulp4

CCTTCTAATTAGATTC-AGGTCAGTCTTAATTAAGGGGAAA-----AAAGCAACGCAAG
C---CTAATTGGACTCTAGATCAGTTGTAATAAGGAGAAAAAAACAAACCAACGGAAC
* ***** **

human_circ-Tulp4
mouse_circ-Tulp4

CCAACCACAAAAACACATATACCAATGAAAGAAATTGGTTTAAATTTACAGCATTAACA
CCAACCACAAAA-----ATAAGCCAATAAAGAACTTGGTTTGAATTCCT-----CA
***** **

human_circ-Tulp4
mouse_circ-Tulp4

TTACTTTTTAAGTAAACAGTTCATTGAAGAAAGTATGTATGCAGCAGTGGAACATGGGC
GTACTTTTTAAGTAAACTTTCATTGAAAAAAGTATGTATGCAGCAGTGGAACATGGGC
***** **

human_circ-Tulp4
mouse_circ-Tulp4

CTGTGCTTTGCAGCGATTCCAACATCCTGTGCCTGTCTGGAAGGGGCGTGTCCCAAGA
CTGTGCTTTGCAGCGATTCCAACATCCTGTGCCTGTCTGGAAGGGGCGTGTCCCAAGA

human_circ-Tulp4
mouse_circ-Tulp4

GTGAGAAGGAGAAGCCTGTGTGCAGGAGACGCTACTATGAGGAAGGCTGGCTGGCCACGG
GTGAGAAGGAGAAACCTGTGTGCAGAAGGCGCTACTATGAAGAGGGATGGTTGGCCACAG
***** **

human_circ-Tulp4
mouse_circ-Tulp4

GCAACGGGCGAGGAGTGGTTGGGGTACTTTACCTCTAGTCACTGTTCGAGGGACAGGA
GCAATGGGCGAGGTGTGGTGGGAGTACTTTACCTCGAGTCACTGTTCGAGAGATAGGA
**** ***** **

human_circ-Tulp4
mouse_circ-Tulp4

GTACTCCACAGAGGATAAATTTCAACCTCCGGGGCCACAATAGCGAG
GTACACCACAGAGAATAAATTTCAACCTGCGAGGCCACAACAGTGAG
**** ***** **