




A



 MSMB4 ATGAATGTTCTCCTGGGCGGCCTTGTGATCTTTGCAACCTTTGTGACTTTATGCAATGCA 60

 MSMB2 ATGAACGTTCTCCTGGGCGGCCTTGTGATCTTTGCCACCTTTGTGACTTTATGCAATGGA 60

 MSMB3 ATGAATGTTCTCCTGGGCGGCCTTGTGATCTTTGCAACCTTTGCGACTTTATGCAATGCA 60

 MSMB4 TCATGCTATTTAATACTGAATGACATAGTTCAGAAAGAGTCAACCAAGGAATGCACAGAT 120

 MSMB2 TCATGCTATGTAATACGTCATAAGATAGTGCCAGGAGAGACAATCAAAGAATGCACGGAT 120


 MSMB3 TCATGCTATTTAATACTGAATGACGTAGTTCAGGAGAGTCAACCAAGGAATGCACAGAT 120

 MSMB4 CTGGAAGGAAACAAACACCCAATAAACTCAAGGTGGCGGACTGACAACCTGTGAGACATGT 180

 MSMB2 CTCAAAGGAAACAAACACCCGCTAGACTCAAGGTGGCGGACTGAAGACTGTGAGCTATGT 180

 MSMB3 CTGAAAGGAAACAAACATCCAATAAACTCAAAGTGGCGGACTGACAGCTGTGACATATGT 180

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 MSMB4 GCTTGTGGCGAAAAGAAATATCATGTTGCACTCTTGTCTTCTACACCTGTGGGTTATGAC 240

 MSMB2 GCTTGCCGTGACATAGAAATATCATGTTGCTCCCTTGTCTTCTACACCTGTGGGTTATGAC 240

 MSMB3 ACTTGCCAAAGAAAAGAAATATCATGTTGCACTCTTGTTCCTACGCCTGTGGGTTATGAC 240

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 MSMB4 AGACACAAC TGCCGAAAATCTTCAACAAGGAGACCTGCAAGATAAGTGTGGTGGAGAAG 300

 MSMB2 AGACACAAC TGCCGAAAATCTTCAACAAGGAGACCTGCAAGATAAGTGTGGTGGAGAAG 300

 MSMB3 ATACACAAG TGCCGAAAATCTTCAACAAGGAGGAGTGCAAGTTAACTGTGGTGGAGAAG 300

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 MSMB4 AAGGACCCAATAGGCCCTGTGGTGTGTCAGCGGATGGATATCG 342

 MSMB2 AAGGACCCAATAGGCCCTGTGGTGTGTCAGTGGATGGATATCG 342

 MSMB3 AAGAACCACATAAGACCTGTGATGTCAGTGCATGGATATTG 342

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B

Greek key motif

MSMB4 SCYLILNDIVPHEESTKECTDLEGNKHPINSRWRTDNCETCACGEKEISCCTL

 MSMB2 SCYVIRHKIVPGETTIKECTDLKGNKHPILDSRWRTEDCELCACRDIEISCCSL

 MSMB3 SCYLILNDVVPGESTKECTDLKGNKHPINSKWRDTSCLICTCQEKEISCCTL

MSMB specific motif

MSMB4 VSTPVGYDRHNCRKIFNKETCKISVVEKKDPNRP CGVSGWIS

 MSMB2 VSTPVGYDRHNCRKIFNKETCKISVVEKKDPNRP CGVSGWIS

 MSMB3 VATPVGYDIHKCQKIFNKEECKLTVVEKKNPHKTC DVS AWIL