

Pm3 Vma22q-Zdk2 DNA sequence

ATAGCCTCAAAATGTTTCTACTCCTTCTTTACTCTTCCAGATTTTCCCGGACTCCGCGTATCGCCG
TACCACTTCAAACACCCAAGCACAGCATACTAAATTTCCCCTCTTCTTCCTCTAGGGTGTCGT
TAATTACCCGTAATAAGGTTTGGAAAGAGGAAAAAGAGACCGCCTCGTTTCTCTCTCTTCGTCCG
AAAAGGCAATAAAAATTCTTACCACGCTCCTTTTCTTGAAATTTTTTTTTTTAATTTTTTCT
CTCCGATGACCTCCCATTGATATTTAGGTTAATAAACGGCCTTTAATTCCTCAAGTTTCAGTTT
CATTTTTCTTGTTCTATTACAACCTTTTTTACTTCTTGCTCATCAGGAAGAAAGCATAGCAATCT
AATCTAAGTTTAAATTAATAACAAAATGGCTGTTGACGTTCCAAGAGCTGTTATCAACAAGTTGA
TGTTGTTCACTGCTGCTATGGTTGTTTTGCCAGTTTTGACTTTCTTCATCATCCAACAATTCACT
CCAAACACTTTGATCTCTGGTGGTTTGGCTGCTGCTATGGCTAACGTTGTTTTGATCGTTTACAT
CGTTGTTGCTTTCAGAGAAGACACTGAAGACCACAAGGTTGACGGTAACCAACAAGAAGACGCT
AGCGCTGGTGGTGGTGGTGGAGCTGGTGCAAGTGATAACAAATTCAATAAAGAAATGTTGAGTG
CCCGTGTGGAAATCTATGGTCTGCCAAACCTGAATTGGGGTCAGAGGTTTGCCTTCATCAGTAGC
CTGACGGATGATCCATCTCAGAGCGCCAATCTGCTGGCCGAAGCCAAAAAACTGAACGATGCCCA
GGCCCCAAAATAA

Pm7 DNA sequence

ATAGCTTCAAAATGTCTCTACTCCTTTTTTACTCTTCCAGATTTTCTCGGACTCCGCGCACCGCCG
TACCACTTCAAACACCCAAGCACAGCATACTAAATTTCCCCTCCTCCTTCTCTAGGGTGCCGTT
AATTACCCGTAATAAGGTTTGGAAAAGGAAAAAGAGACCGCCTCGTCCCTTTTTCTTCGTCCGA
GAAGGCAATAAAAATTTTTATCACGTTTCTTCTCTTGAACCTTTTTTTTTCGATTTTGTTCTCT
TTCGACGACCTCCCATTGATATTTGAGTTAACAACGGTCTTCAATTTCTCAAGTTTCAGTTTCA
TTTTCTCTGTTCTATTACAACCTTTTTTACTTCTTGCTCATTGGAAAGAAAGCATAGCAATCTAA
TCTAAGTTT

Pm2 DNA sequence

ATAGCTCTAAAGTGCTTCGGCTCCCCCTTACTCCTCCAGGTTTTCTCAGACTCCGCGCATCGCCG
TACCACCTCAAAGCCCCAAGCGCAGCATAACCAATCTCCCCTCTTCTTCTCTAGGGTGTCACT
AGTTACTCGTACTAAGGGTTTGGGGAAGGAGAAAGAGACCGCCTCGTCTTCTTTCTTCGTCCGA
GGGGGCAATAGAAGTTTTTATCATGTCTCCTTTCCTTGAGAACCTTTTCTTCGATCTTGTTCTCT
TTCGACGGCCTCCCGTTGGTATTTAGGTTAATGAACGGTCTTCAACCTCTCAAGTTTCAGTTTCC
TTTCTCCCGTCTATTACGACCCTTCTACTTCTCACTCAGTAGAACGGGAGCATAGCAATCTAA
TCTAAGTTT

Vma22q-Zdk2 protein sequence

MAVDVPRAVINKLMLFTAAMVVLPLVTFHIIQQFTPNTLISGGLAAAMANVVLIVYIVVAFREDTE
DHKVDGNQQEDASAGAGAGAGAVDNKFNKEMLSARVEIYGLPNLNWQRFAFISLTDPSQSA
NLLAEAKKLNDAPK

LexA-Venus-LANS4 DNA sequence

ATGAAAGCGTTAACGGCCAGGCAACAAGAGGTGTTTGATCTCATCCATGATCACATCAGCCAGAC
AGGTATGCCGCCGACGCGTGCGGAAATCGCGCAGCGTTTGGGGTCCCGTCCCCAAACGCGGCTG
AAGAACATCTGAAGGCGCTGGCACGCAAAGGCGTTATTGAAATTGTTCCGGCGCATCACGCGGG
ATTCGTCTGTTGCAGGAAGAGGAAGAAGGGTTGCCGCTGGTAGGTCGTGTGGCTGCCGGTGAACC
ACTTCTGGCGCAACAGCATATTGAAGGTCATTATCAGGTCGATCCTTCTTATTCAAGCCGAATG
CTGATTTCTGCTGCGCGTCAGCGGGATGTCGATGAAAGATATCGGCATTATGGATGGTGACTTG
CTGGCAGTGCATAAACTCAGGATGTACGTAACGGTCAGGTCGTTGTCGCACGTATTGATGACGA
GGTTACCGTTAAGGGCTGGAAAAACAGGGCAATAAAGTCGAACTGTTGCCAGAAAATAGCGAG
TTTAAACCAATTGTCGTAGATCTTCGTCAGCAGAGCTTACCATTGAAGGGCTGGCGGTGGGGT
TATTCGCAACGGCGACTGGCTGGAATTGTCTAGAGTGAGCAAGGGCGAGGAGCTGTTACCCGGG
GTGGTGCCCATCCTGGTTCGAGCTGGACGGCGACGTAACGGCCACAAGTTCAGCGTGTCCGGCGA
GGGCGAGGGCGATGCCACCTACGGCAAGCTGACCCTGAAGTTGATCTGCACCACCGGCAAGCTGC
CCGTGCCCTGGCCCACCCTCGTGACCACCCTCGGCTACGGCCTGCAGTGCTTCGCCCCTACCCCG
ACCACATGAAGCAGCAGCACTTCTTCAAGTCCGCCATGCCCGAAGGCTACGTCCAGGAGCGCACC
ATCTTCTTCAAGGACGACGGCAACTACAAGACCCGCGCCGAGGTGAAGTTCGAGGGCGACACCCT
GGTGAACCGCATCGAGCTGAAGGGCATCGACTTCAAGGAGGACGGCAACATCCTGGGGCACAAGC
TGGAGTACAACACTACAACAGCCACAACGTCTATATCACCGCCGACAAGCAGAAGAACGGCATCAAG
GCAAACCTCAAGATCCGCCACAACATCGAGGACGGCGGCGTGCAGCTCGCCGACCACTACCAGCA
GAACACCCCATCGGCGACGGCCCCGTGCTGCTGCCCGACAACCACTACCTGAGCTACCAGTCCAA
ACTGAGCAAAGACCCCAACGAGAAGCGCGATCACATGGTCCTGCTGGAGTTCGTGACCGCCGCCG
GGATCACTCTCGGCATGGACGAGCTGTACAAGTTGCGGCCGCGGGGGAGCGGGGGCATTGATCTG
AGCGGCCTGACCCTGCAGGGTTCTGGAAGTGGGTCGTTGGCTACTACACTTGAACGTATTGAGAA
GAACTTTGTCATTACTGACCCAAGATTGCCAGATAATCCATTATATTCGCGTCCGATAGTTTCT
TGCAGTTGACAGAATATAGCCGTGAAGAAATTTTGGGAAGAACTGCAGGTTTCTACAAGGTCC
TGAAACTGATCGCGCGACAGTGAGAAAAATTAGAGATGCCATAGATAACCAAACAGAGGTCCT
GTTGAGCTGATTAATTATACAAAGAGTGGTAAAAAGTTCTGGAACCTCTTCACTTGCAGCCTAT
GCGAGATCAGAAGGGAGATGTCCAGTACTTTATTGGGGTTCAGTTGGATGGAACCTGAGCATGTC
CGAGATGCTGCCGAGAGAGAGGGAGTCATGCTGATTAAGAAAACCTGCAGAAAATATTGATATGG
CGGCAAAAAGAGTCAAACCTGGATTAA

LexA-Venus-LANS4 protein sequence

MKALTARQQEVFDLIHDHISQTGMPPTRAEIAQRLGFRSPNAAEEHLKALARKGVIEIVSGASRGI
RLLQEEEEGLPLVGRVAAGEPLLAQQHIEGHYQVDPFLKPNADFLLRVSGMSMKDIGIMDGDLL
AVHKTQDVRNGQVVVARIDDEVTVKGLEKQGNKVELLPENSEFKPIVVDLRQQSFTIEGLAVGVIR
NGDWLELSRVSKGEELFTGVVPILVELDGDVNGHKFSVSGEGDATYGKLTCLKICTTGKLPVP
WPTLVTTLG YGLQCFARYPDHMKQHDFFKSAMPEGYVQERTIFFKDDGNYKTRAEVKFEGDTLV
NRIELKGIDFKEDGNILGHKLEYNYNSHNVYITADKQKNGIKANFKIRHNIEDGGVQLADHYQQNT
PIGDGPVLLPDNHLYSYQSKLSKDPNEKRDMVLEFVTAAGITLGMDELYKLRPRGSGGIDLSGL

TLQGSGSGSLATTLERIEKNFVITDPRLPDNPIIFASDSFLQLTEYSREEILGRNCRFLQGPETDRAT
VRKIRDAIDNQTEVTVQLINYTKSGKKFWNLFHLQPMRDQKGDVQYFIGVQLDGTEHVRDAAER
EGVMLIKKTAENIDMAAKRVKLD