

Product datasheet for MR224101

Zswim6 (NM_145456) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zswim6 (NM_145456) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Zswim6
Synonyms:	2900036G02Rik; mKIAA1577
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR224101 representing NM_145456, codon optimized . Due to the complexity of NM_145456, the ORF clone is codon optimized for mammalian Expression. The nucleotide sequence differs from the reference sequence, yet the amino acid sequence remains identical.

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCTGAACGGGGACAGCAACCCCCCGCCAAACGCCTCTGCTGCCGACCGGGCGGCCGGAGGGG
GGGGTGGTGGAGGTGGGGGAAGTAGTGGAGGCGGGCCGGTGGCGTTACAGCTCCGCGTGCAGGCCCGG
ACCGCGCGCTGGAGGCGCTGCCGCCGACGGCTTGCGGCGGAGGAGCCGCTCTCGGCCCTCTCCACCC
GGCAAGACCCAGAGCCCTGAATCCCTGCTCGATATCGCAGCTCGAAGGGTCGCCGAGAAGTGGCCTTTCC
AGAGAGTTGAAGAGAGGTTTCGAGAGAATCCCTGAGCCTGTTTCAGAGACGCATCGTCTATTGGTCTTTCC
ACGGAGCGAGAGGGAGATATGCATGTACTCCAGTTTTAACACGGGGGGTGGTAGCGGGGGGCCAGGC
GACGATTCAGGCGGGCGTGGCGGACGCCAGCACGGGCGAGGGGCCGCTGCTGGGGGAGTTCTTCTAGCC
CCGCCGACCTCCGCTGCTGCTGCAGCAGTGGCCGCTGGGACCGGCACCTCCCTGTGGGAGCTGCTTC
AGCGGCTGATGGCGGGGACGAGACAGCCTGCCTTTTCGCCGAGGAATCGCCCTGCTCGAGTCCGGTTGT
GTGGATAACGTGCTCCAGGTTGGGTTCCATCTGAGTGAACTGTACAGAACAGCAATCCAACAGAAC
CAGAAACGGTGTGCAACGTTGCAATATCATTGATCGGTGCAAAATCACTAGTGTGACCTGCAGTTGCGG
CAATAAGATATTTCTATTGCGCGCACGTTGTGGCACTGAGCTTGATAGGATCCGCAAGCCCGAACAG
GTAAGCTGCACCTCCCCATTAGCGAGACTCTGTTCCAGATGAACAGGGATCAGTTGCAAAAGTTCGTAC
AATACCTGATCACCGTACATCACTGAAGTGCTCCCAACAGCCAAAAGCTCGCAGACGAGATCCTCTC
TCAAACTCTGAGATCAACCAAGTGCACGGCGCCCTGACCCAACAGCCGGTGCCTCCATTGATGATGAA
AATGTTGGCATCTGGATGAGGAGCAGGTTTCAGGAACAGGTGAAGTCTTCTCTCCAAGGGGATATC



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ACGGGAGTGGTAAGCAGCTCAACATGTTGTTCCGCTAAGGTGCGGGAGATGCTGAAAATGAGAGACTCAAA
CGGGGCAAGGATGCTGACGCTGATCACAGAGCAGTTTATGGCCGACCCGCGACTGTCTGTGGCGACAG
CAGGGGACCGGATGACCGACAAGTATAGGCAGCTGTGGGATGAATTGGGAGCCCTCTGGATGTGCATCG
TGCTGAACCCGCATTGTAACCTGGAGCAGAAAGCAAGTTGGCTTAAGCAACTGAAAAATGGAATAGTGT
CGATGTGTGCCCTTGGGAAGATGGAATCATGGATCAGAGCTTCCAAATCTGACTAACGCCTGCCCAA
GGAGCTAACGCCAATCAGGATAGTTCAAACAGGCCTCACCGAACCGTTTTTACAAGGGCCATCGAGGCC
CGGACTTGCAATTGGCAGGACAGCCATCTGCAACACATTATCAGCTCCGACTTGTACACTAACTACTGTTA
TCATGACGACACAGAAAATCCCTCTTTGATTCTCGGGGTGGCCTCTTTGGCATGAACACGTTCCACC
GCTTGGCCAGGGTCGATGCACTGAGATCTCACGGTTACCCACGGGAGGCCCTGCGGTTGGCTATCGCTA
TTGTGAATACCCTGAGGAGGCAGCAGCAGAAAACAGCTGGAGATGTTCAGAACTCAGAAGAAGGAATTGCC
ACATAAGTCAATCACCAGCATTACAAACCTCGAGGGTTGGGTCGGACATCCTCTGGACCCGGTGGGCACC
TTGTTCTCTCTTATGGAGGCTTGCATACTGACGGGGACGCCTTTCCGGTTTTTCCGACTGCACTG
ACAACATGGGACAGTGAAGTCACTTGAGTACCATCACCTGCCAGCTCATAAATCCTGGAAGAGGGCGA
GTCATACGTGACTCTTGAGTCGAGGTAGCTCTGATTGGATTGGCCAGCAGAGGATTATGCCAGACGGC
CTCTACACACAGGAAAAAGTTTGTGAAACGAGGAACAGCTGATCAGTAAGCTCCAGGAGATAGAAGTGG
ATGACACCCTGGTTAAGATCTTCCGGAAGCAGGCAAGTTTTCTGCTCGAGGCCGGCCACTACTCCGTTT
GGGGGAGATTATTCATCGGGAGTCCGTGCCAATGCATACTTTCGCTAAGTATTTGTTACATCTTTGTTG
CCACACGATGCCGAGTTGGCATAACAAGTCGCCCTGAGAGCAATGCGCCTCTTGGTCTCGAGTCAACAG
CACCTACGGGGGATCTGAGTAGACCACATCACATAGCTTCTGTGCTGCCAACAGGTATCCACGCTGGTT
CACTCTGTCCCACATTGAGAGTCAACAGTGTGAGCTCGCCAGCACTATGTTGACGGCCGCAAGGGCGAC
GTTAGAAGACTGGAAACAGTGTGAGTCTATCCAGAAGAATATCCATTCATCATCTCATATCTTTAAAT
TGGCTCAGGATGCTTTCAAATGCCACACTCATGGACAGTCTGCCGACATCACATTGCTGAAAGTTTC
ACCTGAGCTGGCTTGAAGTATGAGGATGAGCTTAGTACCCTAACGCGCAGAAGGGAGATGGTT
CGGTGGCTCGTGACATGCGCCACCGAGGTAGGCGTGTATGCTTTGGACTCTATCATGCACTCATGGTTTA
CTTTGTTTACACCACTGAAGCCACCTCAATCGTCGCAACAACAGTGTATGCTAATAGCACAATCGTGCG
CCTGCATCTCGATTGCCATCAACAGGAGAAGTTGGCCTCTCTGCCAGAACGCTGGCTCTGCAGTGGCC
ATGAAGGACCCTCAGAATTGTGCTTTGAGCGCCTTGACCCTGTGCGAGAAGGACCACATTGCATTGAAA
CTGCATATCAGATTGTGCTCGACGCCGCAACAACAGGGATGAGCTATACGCAACTCTTACCATCGCCAG
GTATATGGAACACCGAGGGTACCCATGCGCGCCTATAAGCTTGCTACACTTGCCATGACGCACCTAAT
CTGTCTACAACCAGGATACCCACCCTGCTAATTAATGATGTGCTGTGGCCTGTGCACTCAGCCACTCAC
TGGGAAAGAACGAGTTGGCCGCTATCATCCCTCTGGTTGTAATACTGTTAAGTGCGCCACAGCTCTGAG
CGACATTTTGGGAGGTGACCCCTGACCACTCCCGGGATGGTGGCCTCCACGGCCGGCGAAATAGCGGA
AAGCTGATGTCCCTCGATAAGGCTCCCCTTAGACAGCTCCTGGATGCCACCATCGGAGCGTATATAAACA
CAACTCACTCCAGACTGACCCATATCTACCAAGGCATTAATCTGAGTTTATCGAATTTCTGAGTAAAGC
GAGAGAGACGTTTCTGATGGCCACGATGGGCATATTCAATTTACTCAGTTTATTGACAACCTTAAACAA
ATATATAAAGGTAAGAAGAACTGATGATGCTCGTTCGCGAACGATTTGGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR224101 representing NM_145456
 Red=Cloning site Green=Tags(s)

MAERGQQPPPAKRLCCRPGGGGGGGGGGSSGGGAGGGYSSACRPGPRAGGAAAAACGGGAALGLLPP
 GKTQSPESLLDIAARRVAEKWPFQRVEERFERIPEPVQRRIVYWSFPRSEREICMYSSFNTGGSGAGPG
 DDSGGGGGRQHGRGAAAGSSSSPAATSAAAAVAAGTGTPSVGAASAADGGDETRLPFRRIALLLESGC
 VDNVLQVGFHLSGTVTEPAIQPEPETVCNVAISFDRCKITSVTCSCGNKIDIFYCAHVVALSLYRIRKPEQ
 VKLHLPISSETLFQMNDRDLQKFVQYLITVHHTEVLPQAQLADEILSQNSEINQVHGAPDPTAGASIDDE
 NCWHLDEEQVQEYQVFLSQGGYHSGKQLNMLFAKVREMLKMRDSNGARMLTLITEQFMADPRLSLWRQ
 QGTAMTDKYRQLWDELGALWMCIVLNPHCKLEQKASWLKQLKKWNSVDVCPWEDGNHGSLEPNLTNALPQ
 GANANQDSSNRPHRTVFTRAIEACDLHWQDHLQHIISSDLYTNYCYHDDTENSLEFDSRGWPLWHEHVPT
 ACARVDALRSHGYPREALRLAIAIVNLTNRQQKQLEMFRTOKKELPHKSITSITNLEGVWGHPLDPVGT
 LFSSLEMEACHTDGFASGFSDCDNDMGQCKSLEYHHLPAHKFLEEESYVTLAVEVALIGLQQRIMPDG
 LYTQEKVCRNEEQISKLEIELDDTLVKIFRQAVFLLEAGPYSLGEIIHRESVPMHTFAKYLFTSLL
 PHDAELAYKIALRAMRLVLESTAPTGDLSRPHHIASVVPNRYPRWFTLSHIESQCELASTMLTAAKGD
 VRRLETVLESIQKNIHSSSHIFKLAQDAFKIATLMDSLPDITLLKVSLELGLQVMRMTLSTLNWRRREMY
 RWLVTCATEVGVYALDSIMQSWFTLFTPEATSIVATTVMSNSTIVRLHLDCHQEQKLASSARTLALQCA
 MKDPQNCALSALTCEKDHI AFETAYQIVLDAATTGMSYQLFTIARYMEHRGYPMRAYKLATLAMTHLN
 LSYNQDTHPAINDVLWACALSHSLGKNELAAIIPLVKSVKCATVLSLILRRCTLTTPGMVGLHGRRNSG
 KLMSLDKAPLRQLLDATIGAYINTHSRLTHISPRHYSEFIEFLSKARETFLEMAHDGHIQFTQFIDNLKQ
 IYKGGKKLMLVRRERFG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



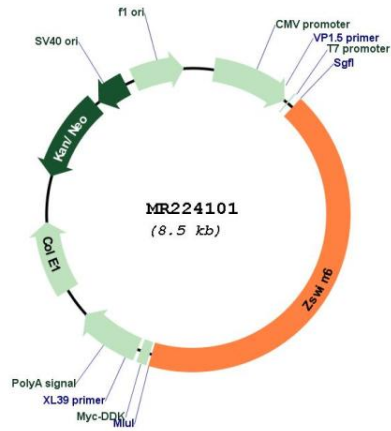
* The last codon before the Stop codon of the ORF

ACCN: NM_145456

ORF Size: 3621 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_145456.2 , NP_663431.2
RefSeq Size:	5473 bp
RefSeq ORF:	3624 bp
Locus ID:	67263
UniProt ID:	Q80TB7
Cytogenetics:	13 D2.1
MW:	133.1 kDa
Gene Summary:	involved in nervous system development, important for striatal morphology and motor regulation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR224101