

Product datasheet for **MR215613**

Zswim8 (NM_027996) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zswim8 (NM_027996) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Zswim8
Synonyms:	2310021P13Rik; 4832404P21Rik; Kiaa0913; mKIAA0913
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR215613 representing NM_027996 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCTGATGTTGCGGGAGTGGGAGGACGGCGAGCGCTTCTCGTTTGAGGATTCCGACCGCTTTGAGG
AGGATTCACCTCTGTTCTGTTTCATTTCCGAGGCCGAGAGCCTTTGCCAGAACTGGCGAGGATGGCGCAACA
GTCAGCGGGGCCAATCCCCACTGGAGGCGGTGGCGGAGGTGGCAGTGGCGGTACCAGAACGCGAGAT
GGATTGGTAATCCATTGGTGGAGCTGTCAGCAAAGCAGGTGGCATTTCACATCCATTTGAAGTGGTAG
AGAAAGTTTATCCTCCAGTGCCAGAACAACTCCAATCCGAATTGCTTTTGGAGCTTCCCTGAGAATGA
AGAGGACATTCTGTGATTCATGCCTAGCCAATGGCAGTGCGGATGAGTTTCAGCGAGGGGATCAGCTG
TTCCGAATGAGGGCTGTGAAAGACCCGCTGCAGATAGGGTTCCATCTGAGCGCCACAGTGGTACCACCGC
AAATGGTCCCACCAAGGGGGCCTACAATGTAGCTGTGATGTTTGACCGCTGCCGGGTCACTTCTTGAG
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CCTCTTCTGGTGTACCTACAGTGGCACTGACCGGAAGCTAGCCCTGTGCTGGGCCCGGGCCCTGCCTG
 CCAGGCCAGGAGCCTCTAGATCTGGGGGCTGGAAGAGTCCCGGGCCCGACCTCTTCTACTGAGCCAGC
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AGCTGGGAGTGAACACGTGCACCACTTCTGTGTGGGGGAGCCAGGGGGTCTGAGCCCGTTTGTGCT
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GCCTTCCACCAACTGGTGCAGCGCTGTGAGCAGCATACATGCAGTACATCCATCACCCTTAATTCACC
TGACTCCTGCCGACTACGACGACTTTGTGAATGCAATCCGAGCGCTCGAGCGCCTTCTGCCTGACACC
CATGGGCATGATGCAGTTCAACGACATCTACAGAACCTCAAACGAGCAAAACAGACCAAGGAGTTGTGG
CAGCGGGTCTCTCTGGAGATAACCACTTCTCCCC

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR215613 representing NM_027996
Red=Cloning site Green=Tags(s)

MELMFAEWEDGERFSFEDSDRFEEDSLCSFISEAESLCQNWGRWKQSAGPNSPTGGGGGGSGGTRTRD
GLVIPLVELSAKQVAFHIPFEVVEKVPPVPEQLQLRIAFWSFPENEEDIRLYSCLANGSADEFQRGDQL
FRMRAVKDPLQIGFHLSTVVPQMVPKAYNVAVMFDRCRVTSCSCTGAGAKWCTHVVALCLFRIHN
ASAVCLRAPVSESLSRLQRDQLKFAQYLISELPQQILPTAQRLLELLSSQSTAINTVCGAPDPTAGPS
ASDQSTWYLDSTLTDNIKTLHKFCGSPVVFSDVNSMYLSTTEPPAAAEWACLLRPLRGREPEGVWNL
LSIVREMFKRRDSNAAPLLEILTDQCLTYEQITGWWYSVRTSASHSSASGHTGRSNGQSEVAHACASMC
DEMVTLLWRLAVLDPALSPQRRRELCAQLRQWQLKVIENVKRGQHKKTLELRFPGFRPAVEACYFNWEEAY
PLPGVTYSGTDRKLALCWARALPARPGASRSGGLEESRPRPLPTEPAVRPKEPGAKRKLGEISSQRP
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STDDSGSLHKTKEAAPAVGEEDDDYQAYYLAQDAGGEEEAEGGTGEEHDLFAGLKPLEQESRMEVL
FACAEALHAHGSNEASRLTVELAQDLLANPPDLKVEPPPAKGGKKNKVSTSRQTWATNTLTAAFLLT
LSEPEREHLAFRVGMFALELQRPASTKALEVKLAYQSEVAALLKKIPRGPMSESTIRCRAEELREGT
LCDYRPVPLPLMLASFIDVLCAPVVSLSGSRPPSRNWTNEMPGDEELGFEAAVAALGMKTTVSEAEHPL
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APGALQPLTSSSAGPAQPGNVAGAGPGTEGTEKNVPESPHSPCEGLPPEAALTPRPEGKVP SRLALG
SRGGYNGRGWGSPPGRPKKHTGMASIDSSAPETSDSSPTLSRRPLRGGWAPT SWGRGQSDSISSSSD
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TSIFTHPSSSGGHQGPRLHLCAFEIGLYALGLHNFVSPNWL SRTYSSHVSWITQAMEIGSAALTILV
ECWDGHLTPPEVASLADRASRARDSDNMVRAAAELALSCLPHAHALNPNEIQRALVQCKEQDNLMEKACM
AVEEAAKGGGVPEVLFEVAHQWFWLYEETAGGSSTAREGATSCSGSGMRAAGEAGRGLPEGRGAPGTEP
VTAAAAVTAAATVVPVISVGSSLYPGPLGHGHSPGLHPYALQPHLPCSPQYLTHPAHPAHMPHMPR
PAVFPVPSSAYPQGVHPAFLGAQYPYSVTTPSLAATAVSFPVPSMAPITVHPYHTEPGLPLPTSVALLSSV
HPASTFPAIQGASLPALTTQPSPLVSGGFPPPEEETHSQPVNPHSLHHLHAAYRVGMLALEMLGRRAHND
HPNNFSRPPYTDDVKWLLGLAAKLG VNYVHQFCVGAAGVLPSPFVLQEIVMETLQRLNPIAHNHLRAP
AFHQLVQRCQAYMQYIHHRLIHLTPADYDDFVNAIARSARSAFCLTPMGMQFNDILQNLKRSKQTKELW
QVRSLEITTFSP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9104_d07.zip

Restriction Sites:

SgfI-MluI

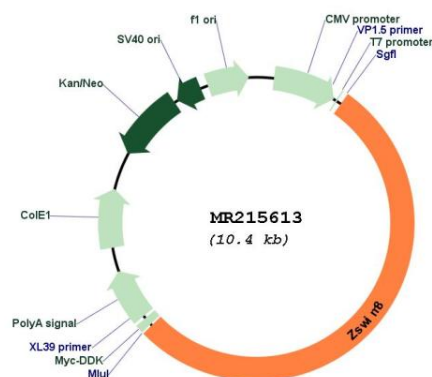
Cloning Scheme:



ACCN:	NM_027996
ORF Size:	5496 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:	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.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_027996.3</u> , <u>NP_082272.1</u>
RefSeq Size:	6094 bp
RefSeq ORF:	5499 bp
Locus ID:	268721
UniProt ID:	<u>Q3UHH1</u>
Cytogenetics:	14 A3
MW:	197.1 kDa
Gene Summary:	Substrate recognition component of a SCF-like E3 ubiquitin-protein ligase complex that promotes target-directed microRNA degradation (TDMD), a process that mediates degradation of microRNAs (miRNAs) (PubMed:33184237). The SCF-like E3 ubiquitin-protein ligase complex acts by catalyzing ubiquitination and subsequent degradation of AGO proteins (AGO1, AGO2, AGO3 and/or AGO4), thereby exposing miRNAs for degradation (By similarity). Specifically recognizes and binds AGO proteins when they are engaged with a TDMD target (By similarity). May also acts as a regulator of axon guidance: specifically recognizes misfolded ROBO3 and promotes its ubiquitination and subsequent degradation (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR215613