

Product datasheet for **MG215613**

Zswim8 (NM_027996) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Zswim8 (NM_027996) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Zswim8
Synonyms:	2310021P13Rik; 4832404P21Rik; Kiaa0913; mKIAA0913
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG215613 representing NM_027996 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCTGATGTTGCGGAGTGGGAGGACGGCGAGCGCTTCTCGTTTGAGGATTCGACCGCTTTGAGG
AGGATTCACCTCTGTTCTGTTTCATTTCCGAGGCCGAGAGCCTTTGCCAGAACTGGCGAGGATGGCGCAAACA
GTCAGCGGGGCCAATCCCCACTGGAGGCGGTGGCGGAGGTGGCAGTGGCGGTACCAGAACGCGAGAT
GGATTGGTAATCCATTGGTGGAGCTGTCAGCAAAGCAGGTGGCATTTCACATCCATTTGAAGTGGTAG
AGAAAGTTTATCCTCCAGTGCCAGAACAACTCCAATCCGAATTGCTTTTGGAGCTTCCCTGAGAATGA
AGAGGACATTCGTCTGTATTCATGCCTAGCCAATGGCAGTGCGGATGAGTTTCAGCGAGGGGATCAGCTG
TTCCGAATGAGGGCTGTGAAAGACCCGCTGCAGATAGGGTTCCATCTGAGCGCCACAGTGGTACCCCGC
AAATGGTCCCACCAAGGGGGCCTACAATGTAGCTGTGATGTTTGACCGCTGCCGGGTCACTTCTTGAG
CTGTACCTGTGGGGCCGGGGCCAAATGGTGCACCCATGTCGTGGCACTCTGCCTCTTCCGCATTCAAC
GCATCTGCAGTCTGCCTGCGGGCTCCAGTCTCAGAGTCCCTGTCTCGGCTACAAAGGGACCACTTCAAA
AATTTGCTCAGTACCTTATCAGTGAGCTTCCTCAGCAGATTCTCCCCACAGCCAGCGTCTTCTAGACGA
GCTCCTTTCTCCAGTCCACAGCCATCAACACAGTGTGTGGGGCTCCGACCCTACAGCAGGGCCCTCA
GCTTCAGACCAGACACTTGGTATTTGGATGAGTCAACACTCACTGACAACATAAAGAAGACACTACATA
AGTTCTGTGGCCCTCCCTGTGGTCTTCAGTGATGTAACCTCTATGTATCTCTTCCACGGAACCTCC
TGCTGCTGCTGAGTGGGCATGTCTGCTGCGGCCTCTGAGGGGTCGAGAGCCTGAGGGTGTCTGGAACCTG
CTTAGCATTGTTGAGAGATGTTCAAGCAAGGGACAGCAATGCTGCCCCCTTGCTGAAATACTCACTG
ACCAGTGCCTCACCTATGAACAGATAACAGGCTGGTGGTATAGTGTGCGCACCTCAGCTTCACACAGCAG
TGCCAGTGGTCACACAGGCCGTAGCAATGGGCAGTCAGAGGTAGCAGCCCATGCATGTGCAAGTATGTGC
GACGAGATGGTTACCCTCTGGAGGCTGGCTGTGCTGGACCCTGCCCTCAGCCCTCAGCGCCGCCGGGAAC
TGTGTGCACAGCTGCGTCAGTGGCAACTGAAGGTGATTGAGAATGTCAAGCGGGGCCAGCACAAGAAGAC
CCTAGAGAGGCTCTTCCCTGGCTCCGGCCAGCTGTGGAGGCCTGCTACTTTAACTGGGAAGAGGCTTAT



[View online »](#)

CCTCTTCTGGTGTACCTACAGTGGCACTGACCGGAAGCTAGCCCTGTGCTGGGCCCGGGCCCTGCCTG
 CCAGGCCAGGAGCCTCTAGATCTGGGGGCTGGAAGAGTCCCGGGCCCGACCTCTTCTACTGAGCCAGC
 TGTGAGGCCAAAGGAACCTGGGGCCAAACGAAAGGATTGGGTGAGGGGATCTCCTCACAGCGGGGCCCC
 CGCCGCTCTCTGCCAAGGAGGAGATAAGGCTCTGCATAAGATGGGTCCAAGTGGGGGCAAGCCAAGG
 TACTGGGTGGGACTGGCAGCGGGGGCAAGAGCTCAGCAGGCAGTGGGAGCAAACGGCGCTAAGCAGTGA
 AGACAGTCCCTGGAACCAGACCTGGCAGAGATGAGCCTGGATGACAGCAGCCTGGCCCTGGGTGCAGAG
 GCCAGCACCTTTGGTGGATTCCCTGAGAGCCCTCCACCCTGTCTTCTCGTTGGCTCCAGAGGACCTT
 CCACCTTCCCTTCTGAGCCCCAGATACTTATAGGAAGATGCTGGTGTGTACTTTTCAGAAGGACCTGA
 GCCTCCCACAGCCTCTGCAGACCACCTGGTCTGCTGCCTGGGGAGGTCTGTACCCGAGATGACCTCCCT
 TCCACAGACGACAGTGGCAGTGGGTACACAAAACCAAAGAAGCAGCTCCTGCAGTTGGAGAGGAGGATG
 ACGACTACCAAGCATATTACCTGAATGCCAGGATGGGGCTGGAGGCGAGGAGGAGAAGGCGGAGGGCGG
 GACTGGGAGGAGCATGACCTGTTTGTGGTTTGAAGCCACTGGAACAGGAGAGCCGAATGGAGGTGTTG
 TTTGCTGCGCTGAGGCCCTGCATGCCCATGGCTACAGCAATGAGGCCTCCCGCCTCACTGTGGAGCTTG
 CCCAGGACCTGTAGCAACCCACCTGACCTCAAGGTAGAGCCGCCCCCTGCCAAGGGCAAGAAAAACAA
 GGTGTCCACAAGCCGTGACAGCTGGGTGGCTACCAACACTCTGACCAAAGCAGCCTTCTGTTGACAGTG
 CTTAGTGAGCGCCTGAGCACCACAGCCTGGCCTTCCGAGTTGGCATGTTTGCCTGGAGCTACAGCGGC
 CTCTGCTTCAACCAAGGCCTTGAGGTAAAATTGGCATATCAGGAATCTGAGGTAGCTGCTCTGCTCAA
 GAAGATCCCTCGGGGCCCCAGTGAATGAGTACCATTGATGCCGGGCGAAGAACTTCGGGAGGGTACA
 CTGTGTGACTATCGGCCTGTCTTGCCCTCATGTTGGCCAGTTTCATCTTTGATGTTCTCTGTGCTCCAG
 TGGTTTCTCTACGGGTTCCCGGCCCCAAGTCGAAACTGGACTAACGAGATGCCTGGAGATGAGGAGCT
 AGGATTTGAAGCAGCAGTTGCTGCCTTGGGCATGAAGACAACAGTGAGTGAGGCAGAATCCCCCTCTA
 TGTGAAGGCACAGTCGGGAGAAGGGTGACCTGGCCTTAGCACTCATGATCACCTACAAGGATGACCAGG
 CCAAGCTCAAGAAGATCCTAGACAACTCTTGGACCGAGAAAGCCAGACACATAAGCCACAGACCCCTGAG
 TTTCTTTCTACTCATCCAGCCGGCCGACCAGCAACAGAGATCTCCTTCAAAGCAGGGGCCCATCT
 GCTCCCGGGGCCCTGCAGCCACTGACTTCAAGCTCTGCAGGGCCTGCTCAGCCAGGGAATGTGGCAGGGG
 CTGGGCCAGGTCCCACTGAGGGCTTACAGAGAAGAATGTACCCGAAAGTTCCCCACATTTCCCCCTGTGA
 AGGTCTCCACCTGAGGCAGCTTTGACTCCACGGCCGAGGGGAAGGTTCTAGCCGCTAGCACTTGGC
 AGTCGTGGAGGTTATAATGGTCGAGTTGGGGCTCTCCAGGGCGGCCAAAAAGAAACACACAGGCATGG
 CCAGCATTGACAGCAGTGCCCTGAAACCACATCGGACAGCTCTCTACCTTAAGCCGACGGCCACTTCG
 AGGGGGCTGGGCCCTACTTCTTGGGTGAGGACAAGACAGTGACAGCATTAGCAGCTTCTCTCAGAC
 TCTCTGGGCTCTTCATCTCCAGTGGAAGCCGCCGGGCTAGTGCCAGTGAGGGGGCCGGGCAAGACAG
 TTGACGTTGGCAGGTGTTACAAAGGCCGCCGCCCTGAGAGTCATGCCCCCACGTACCCAATCAGCCGTC
 AGAGGCAGCTGCACACTTCTACTTCAATTGGCGAAGACAGTTTCTGATCAAGGCAGGGGGCAACAGCAGC
 ACCTCCATTTTACACATCCATCTTCTCAGGAGGCCACCAGGGTCTCACCGCAACCTGCACCTTTGCG
 CCTTTGAGATTGGGCTTTATGCCCTAGGCCTGCATAACTTTGTTTCTCCTAACTGGCTCTCTCGTACCTA
 TTCTTCCCATGTATCCTGGATTACAGGGCAGGCCATGGAGATTGGCAGTGACGCTTGACTATACTGGTA
 GAATGCTGGGATGGGCACCTGACACCCCTGAGGTTGCATCGTGGCCGACAGAGCGTACGGGCACGAG
 ACTCCAACATGGTGAGGGCAGCGGCAGAGCTGGCTCTAAGCTGCCTGCCTCATGCCACGCACTGAACCC
 CAATGAGATTGAGCGGGCTTGGTGCAGTGCAAGGAACAGGATAACCTGATGTTGGAGAAGGCCTGCATG
 GCCGTGGAAGAGGCAGCCAAGGGTGGGGGCGTATACCCTGAAGTGCTGTTTGAGGTTGCTCATCAGTGGT
 TCTGGCTTTATGAGGAGACAGCAGGCGGCTCGTCCACAGCTCGTGAAGGGGCTACAAGCTGATGGCAG
 TGGGATGAGGGCCGCTGGGGAGGCTGGGCGGGGACTCCCTGAGGGTAGGGGTGCCCCAGGGACTGAACCT
 GTTACAGTGGCTGCGGCAGCAGTGACAGCAGCAGCCACAGTGTTCCGGTCATCTCAGTGGGGTCCAGTT
 TATATCCAGGTCCAGGACTGGGGCATGGCCACTCCCTGGCCTGCACCCCTACACTGCTCTCCAGCCCCA
 CTTGCCCTGCAGCCCTCAGTACCTACCCACCCAGCTCACCTGCCACCCCTATGCCTCATATGCCCCGG
 CCTGCCGTCTTCCCTGTGCCAGCTCTGCATACCCACAGGGTGTGCATCCTGCATTCTGGGGGCGCAAT
 ACCCTTACTCAGTGACTCCTCCCTCGTTGCTGCCACAGCTGTATCTTCCCTGTCCCTTCCATGGCTCC
 CATCACAGTCCATCCTTACCACACAGAACCAGGGCTCCCACTGCCACCAAGTGTGGCCTTGAGCAGTGTC
 CATCCAGCATCTACGTTTCCAGCCATCCAGGGTGCCTCACTGCCTGCTCTGACCACACAGCCAGCCCTC
 TGGTAAGCGGGGGTTTTCCACCACCCGAAGAGGAGACACAGTCAACCGGTCAATCCACATAGCCTGCA
 CCATCTGCATGCTGCTTACCGTGTGGGATGCTGGCACTGGAGATGCTAGGTGCGCGGGCACACAACGAT
 CACCCCAACAACCTTTCCCGCTCCCCCTTACACTGATGATGTCAAATGGTGTGGGGCTGGCAGCAA

AGCTGGGAGTGAACACGTGCACCACTTCTGTGTGGGGGAGCCAGGGGGTGTGAGCCCGTTTGTGCT
GCAGGAGATCGTCATGGAGACGCTGCAGCGGCTGAACCCATTTCATGCCACAACCACCTTCGAGCCCCG
GCCTTCCACCAACTGGTGCAGCGCTGTGAGCAGGCATACATGCAGTACATCCATCACCCTTAATTCACC
TGACTCCTGCCGACTACGACGACTTTGTGAATGCAATCCGAGCGCTCGCAGCGCCTTCTGCCTGACACC
CATGGGCATGATGCAGTTCAACGACATCTACAGAACCTCAAACGAGCAAAACAGACCAAGGAGTTGTGG
CAGCGGGTCTCTCTGGAGATAACACCTTCTCCCC

ACGCGTACGCGGCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG215613 representing NM_027996

Red=Cloning site Green=Tags(s)

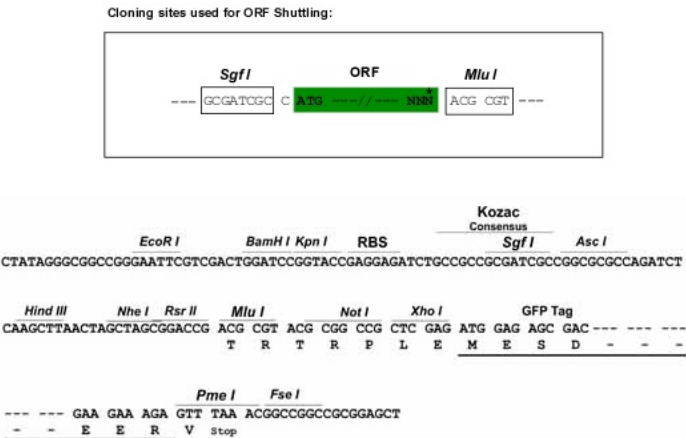
MELMFAEWEDGERFSFEDSDRFEEDSLCSFISEAESLCQNWGRWKQSAGPNSPTGGGGGGSGGTRTRD
GLVIPLVELSAKQVAFHIPFEVVEKVYPPVPEQLQLRIAFWSFPENEEDIRLYSCLANGSADEFQRGDQL
FRMRAVKDPLQIGFHLSATVVPQMVPPKGAYNVAVMFDRCRVTSCTCGAGAKWCTHVVALCLFRIHN
ASAVCLRAPVSESLSRLQRDQLQKFAQYLISELQQILPTAQRLLELLSSQSTAINTVCGAPDPTAGPS
ASDQSTWYLDDESTLDNIKKTLLHKFCGSPVVFSDVNSMYLSSTEPPAAAEWACLLRPLRGREPEGVWNL
LSIVREMFKRRDSNAAPLLEILTDQCLTYEQITGWWSVRTSASHSSASGHTGRSNGQSEVAHAACASMC
DEMVTLLWRLAVLDPALSPQRRRELCAQLRQWQLKVIENVKRGQHKKTLELRFPGFRPAVEACYFNWEEAY
PLPGVTYSGTDRKLALCWARALPARPGASRSGGLEESRPRPLPTEPAVRPKEPGAKRKLGEISSQRP
RRLSAEGGDKALHKMGPSGGKAKVLGGTSGGKSSAGSGSKRRLSSEDSSLEPDLAEMSLDSSALGAE
ASTFGGFPESPPPCPSSVSGSRGPSTFLPEPPDYEEDAGVYFSEGPEPPTASADHPGLLPGEVCTRDDLP
STDDSGSLHKTKEAAPAVGEEDDDYQAYYLAQDQAGGEEEAEGGTGEEHDLFAGLKPLEQESRMEVL
FACAEALHAHGSNEASRLTVELAQDLLANPPDLKVEPPPAKGGKKNKVSTSRQTWVATNLTAKAFLTV
LSERPEHSLAFRVGMFALELQRPASTKALEVKLAYQSEVAALLKKIPRGPMSESTIRCRAEELREGT
LCDYRPVPLPLMLASFIFDVLCAVVSLSGSRPPSRNWTNEMPGDEELGFEAAVAALGMKTTVSEAEHPLL
CEGTRREKGDALALMITYKDDQAKLKKILDKLLDRESQTHKPQTLSSFYSSSRPATANQRSPSKHGAPS
APGALQPLTSSSAGPAQPGNVAGAGPGTEGTEKNVPESPHSPCEGLPPEAALTPRPEGKVP SRLALG
SRGGYNGRWGSPGRPKKHTGMASIDSSAPETTSDDSPSLRRPLRGGWAPTSWGRGQSDSISSSSSD
SLGSSSSSGSRRASASGGARAKTVDVGRCYKRRPE SHAPHVPNPSEAAAHFYFELAKTVLIKAGNNS
TSIFTHPSSSGHGQPHRNLHLCAFEIGLYALGLHNFVSPNWLRTYSSHVSWITGQAMEIGSAALTILV
ECWDGHLTPPEVASLADRASRARDNMVRAAAELALSCLPHAHALNPNEIQRALVQCKEQDNLMEKACM
AVEEAAKGGGVPEVLFEVAHQWFWLYEETAGGSSTAREGATSCSGSGMRAAGEAGRGLPEGRGAPGTEP
VTAAAAVTAAATVVPVISVGSSLYPGPLGHGHSPGLHPYALQPHLPCSPQYLTHPAHPAHMPHMPR
PAVFPVPSSAYPQGVHPAFLGAQYPYSVTPPSLAATAVSFPVPSMAPITVHPYHTEPGLPLPTSVALSSV
HPASTFPAIQGASLPALTTQPSPLVSGGFPPPEEETHSQPVNPHSLHHLHAAYRVGMLALEMLGRRAHND
HPNNFSRPPYTDDVKWLLGLAAKLG VNYVHQFCVGAAGVLSPFVLQEIVMETLQRLNPIHAHNHLRAP
AFHQLVQRCQAYMQYIHHRLIHLTPADYDDFVNAIARSARSAFCLTPMGMQMFDNLQNLKRSKQTKELW
QVRSLEITTFSP

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

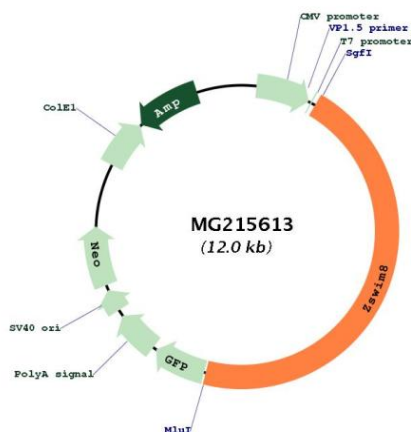
Cloning Scheme:



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, NP_082272.1</u>
RefSeq Size:	6094 bp
RefSeq ORF:	5499 bp
Locus ID:	268721
UniProt ID:	<u>Q3UHH1</u>
Cytogenetics:	14 A3
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 MG215613