

## Product datasheet for **RG223577**

### ZSWIM8 (NM\_015037) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ZSWIM8 (NM_015037) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	ZSWIM8
Synonyms:	KIAA0913
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG223577 ORF sequence, <b>codon optimized</b> . Due to the complexity of NM_015037, 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)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGAGCTGATGTTTCGCAGAGTGGGAGGATGGCGAAAGGTTTCAGTTTTGAAGACTCAGACAGATTTCGAGG  
AAGACTCCCTGTGCAGCTTTATCAGTGAAGCCGAATCCCTGTGCCAAAATTGGAGGGGGTGGAGAAAGCA  
GAGCGCTGGACCTAACTCCCCACAGGCGGGGGCGGGGGAGGTGGCTCAGGCGGTACCAGAATGAGGGAT  
GGGCTGGTGTATCCCACTGGTGGAGTTGTCCGCCAAGCAGGTGGCCTTTCACATACCTTTCGAAGTAGTGG  
AGAAAGTCTATCCCCCGTTCTGAACAGCTCCAGCTGCGCATTGCGTTCTGGAGCTTCCCCGAAAACGA  
GGAAGATATACGCCTCTATAGCTGTTTGCGCAACGGGTGAGCTGATGAATTCAGCGGGGGACCAATTG  
TTTAGAATGAGGGCCGTGAAGGATCCACTGCAGATCGGCTTCCACCTCAGCGCCACAGTGGTCCCCGCCAC  
AAATGGTCCCTCCAAAAGGAGCATACAATGTGGCTGTTATGTTTCGATCGGTGCAGGTAACCAAGTTGCTC  
TTGCACCTGCGGTGCCGGGGCAAAATGGTGTACTCACGTGGTGGCATTGTGTCTGTTCCGCATTCACAAT  
GCATCTGCCGTGTGCCTGAGGGCACCCGTGAGTGAGAGCCTGAGCAGACTGCAAAGAGATCAGTTGCAGA  
AATTCGCCAGTATCTGATTAGTGAGCTCCCTCAGCAGATACTCCCTACTGCACAGCGGCTGCTGGACGA  
ACTGTTGTCTTACAATCAACCGCCATCAATACCGTATGCGGGGCCCGGATCCGACGCGGGGCGCTAGT  
GCTAGCGACCAATCTACTTGGTACCTGGATGAGTCCACCCTTACAGATAATATTAAGACCCCTGCACA  
AATTTTGGGACCCAGCCCTGTCGTTTTTCAGTGTGTAATTCATGTATCTGAGTAGTACTGAGCCCCC  
CGCGCTGCCGAGTGGGCATGCCTGCTGAGGCCCTTCGAGGTCGCGAGCCTGAGGGCGTTTGAATCTC  
CTTTCCATTGTAAGGGAGATGTTAAGAGGAGGACAGCAATGCTGCACCCTGTTGGAGATTCTGACCG



[View online »](#)

ATCAGTGTCTGACATACGAACAGATTACTGGATGGTGGTATAGCGTGAGGACTTCAGCAAGTCACTCTAG  
 TGCCAGTGGACATACTGGAAGATCAAAATGGGCAATCCGAGGTCGCCGCCCATGCGTGTGCTAGTATGTGC  
 GATGAAATGGTGACCCTCTGGAGGTTGGCTGTGCTTGATCCAGCTCTCAGCCCACAGCGCAGGGAGC  
 TGTGCACACAACCTGCGCCAGTGGCAGCTCAAAGTGATAGAAAAATGAAAGCGAGGCCAGCATAAGAAGAC  
 GCTTGAGCGCCTTTCCAGGCTCAGGCTGCAGTGGAGGCGTCTATTTAATTGGGAGGAGGCTTAC  
 CCATTGCCCGAGTTACATACTCTGGAACAGACAGAAAGCTGGCTCTCTGCTGGCCAGGGCGCTTCCCT  
 CCCGGCTGGCGCCTCCCGCAGTGGGGCCTCGAGGAGAGCCGGGACCGACCTCGCCCCCTGCCACTGA  
 GCCCGCGGTGCGACCCAAGGAACCCGGCACCAAGAGGAAAGGCCTGGGAGAGGGGGTGCCATCCTCCAG  
 CGCGGTCCAGGAGGCTGAGCGCGGAGGGAGGGGACAAGGCATTGCACAAGATGGGCCAGGGGGCGGGA  
 AGGCCAAGGCCCTCGCGGGGCGGCTCAGGGAGTAAGGGCTCCGCTGGAGGAGGGTCTAAGAGAAGACT  
 CTCCTCGAAGATAGCTCTCTGGAACCCGATCTGGCCGAGATGTCTCTGGATGACAGTAGTCTCGCTCTG  
 GGTGCTGAGGCATCCACCTTCCGGGGTTCGCCGAGTCCCCTCCACCCTGTCTCTCCATGGAGGATCTA  
 GGGACCAAGCACATTTCTGCCGAACCACCGACACCTACGAGGAGGACGGTGGAGTGTATTTTCAGA  
 AGGTCCCAGACCTCCACCGCATCAGTTGGTCCCCTGGACTGCTGCCTGGCGACGTCTGTACCCAAGAT  
 GATCTGCCGTCAACCGACGAGAGCGGTAAACGGCCTGCCAAAACAAAGGAGGCGGCTCCCGCGTGGTG  
 AGGAGGATGATGATTATCAGGCGTATTACCTTAATGCACAGGACGGAGCCGGAGGAGAGGAGGAGAAAGC  
 AGAAGGCGGGGCTGGCGAGGAGCACGACCTCTCGCCGGCCTGAAGCCGCTTGAACAAGAATCTAGGATG  
 GAAGTTCTGTTGCTTGCCTGAGGCATTGCATGCCCATGGGTATTATCTGAAGCCAGTCGGTTGACTG  
 TGGAGCTCGCGCAGGATCTGCTCGCAATCCCCAGATCTGAAAGTGGAACTCTCCAGCCAAGGGCAA  
 GAAAAACAAAGTCTAACCTCCAGACAAACCTGGGTGGCACAACACACTCTCCAAAGCAGCCTTCTCTG  
 CTTACTGTGCTGTCTGAGCGCCTGAACATCATAACTTGGCCTCAGGGTTGGCATGTTCCGCCCTGAAC  
 TGCAGAGGCTCCAGCCAGCACCAAGGCATTGGAAGTCAAACCTGGCGTATCAGGAGAGCGAGTCGCTGC  
 CTTGCTGAAGAAGATACCGCTGGGGCCATCAGAGATGTCCACCATGAGATGTCGGGCTGAAGAGCTCAGG  
 GAGGGGACTTTGTGTGATTATCGACCTGTGCTGCCTCTGATGCTCGCATCTTTCATTTTCGACGTTCTGT  
 GCGCTCCCGTGGTCAGCCCAACAGGAAGCCGACCTCAAGCAGGAACTGGAACCTAGAGACTCCCGCGCA  
 TGAGGAGCTTGGATTGAAAGCGCCGTAGCCGCACTCGGTATGAAAACACAGTCAGCGAGGCCGAGCAT  
 CCTCTGTTGTGCGAGGGGACCCGGAGAGAGAAAGGGGATCTTGCCTGGCTCTCATGATTACATATAAGG  
 ATGACCAGGCGAACTGAAAAGATTCTGGATAAGCTGCTGGACAGGGAGTCCCAGACCCACAAACCCCA  
 GACCTCTCAAGCTTCTATTCCAGCAGTCGCCCAACCCGAGCCAGCGGTACCAAGCAAACACGGA  
 GGCCCATCTGCTCCGGGAGCTTTCGAACCTTGACGAGCGGAAGCGCTGGACCTGCCAGCCCGGTAGCG  
 TTGCTGGCGCTGGCCCTGGCCCCACAGAAGGCTTACGGAGAAGAAGCTGCCGAGAGCAGCCCCACAG  
 TCCTTGGCAAGGCTTCCAAGCGAGGCGGCCCTTACTCCTAGACCAGAGGCAAGGTCCCCTCCCGGCTC  
 GCACTGGGCTCCAGGGGCGGTTACAACGGGAGGGGGTGGGGGAGCCCCGGAAGACCAAAGAAGAAGCACA  
 CAGGATGGCATCAATTGACAGTAGTGCTCCTGAAACTACCAGTGATTATCTCCCACCCTCTCCAGAAG  
 ACCGCTCCGCGCGGCTGGGCTCCTACTAGCTGGGGCAGAGGACAAGATTAGATAGCATCTCCTCATCA  
 TCTTCCGACAGCCTCGGCAGTCTCCAGTAGTGGGAGCAGGCGGGCCAGCGCATCTGGCGGGCCAGAG  
 CCAAGACTGTGGAGTGGTTCGTACAAGGGCCCGACCTGAGTCCCACGACCCACGTGCCAACCA  
 GCCTTCTGAAGCCGCGCCCATTTCTATTTGAACTTGCACAGACCGTTCTGATCAAGCCGCGGTAAC  
 TCTTACATCCATTTTACCCATCCAAGCTCATCCGGTGGACACCAAGGGCCACACCGAACCTGCACC  
 TGTGTGCCTTTGAAATTGGTCTGTACGCCCTGGGCTGCATAACTTTGTGAGCCCAAATGGCTTAGCAG  
 GACCTACTCTTACACGTATCATGGATCACGGCCAGGCTATGGAGATCGGAAGCGCTGCTCTACAATC  
 CTCGTCGAGTGTGGGATGGCCACCTCACACCGCAGAGGTGGCTTCACTCGCTGATCGGGCTTCTCGGG  
 CACGAGACTCCAATATGGTGCAGCAGCTGCCGAGCTCGCCCTTCTGTCTGCCGACGACATGCTCT  
 CAATCCTAATGAGATCCAACGGGATTTGGTCCAGTGCAAAGAGCAGGACAACCTCATGCTCGAAAAAGCC  
 TGTATGGCTGTTGAAGAAGCCGAAAGGGCGGCTGTATACCCAGAGTACTCTTCGAGGTGGCACATC  
 AGTGGTTTTGGCTGTATGAACAGACTGCCGGAGGACGCTCCACAGCCCGGAGGGAGCTACATCATGTT  
 AGCTAGCGGGATCAGAGCTGGAGGAGAGCCGGGCGGGTATGCCAGAAGGAAGGGTGGCCAGGCACC  
 GAACCCGTGACTGTCCGCGCTGCGGCTGTGACTGCCGCTGCTACAGTCGTGCCCGTATCTCTGTGGGCT  
 TTCACTACTACCCTGGGCCCGACTGGGGCACGGACACTCTCCGGGCTGCATCCTTACACAGCCCTCCA  
 GCCACACTTGCCTGTAGTCCACAATACTCACCCACCCTGCACACCCCGCCACCCAATGCCCCACATG  
 CCCCGGCCGCTGTGTTCCCGTGCCTTCATCCGCATACCCACAGGGCGTGCACCCAGCCTTTCTTGGAG  
 CACAGTATCCATATTCAGTGACGCCCAAGTCTGGCGCAACAGCCGTGCTTTCCAGTGCCTTCAAT

GGCTCCAATTACCGTTACCCCTTACCACACTGAGCCTGGGTTGCCCTGCCACAAGTGTGCTTGTGAG  
 CTCTGGGGACAGGGTACAGTACAGTGTTCATCCTGCATCTACCTTCCCGCCATCCAAGGGGCTCAC  
 TCCCGCCCTGACTACACAACCTAGTCTCTTGTAGCGGAGGTTTCCCCCCCCAGAGGAGGACACA  
 CAGTCAGCCAGTTAACCCCATAGTCTTACCACCTCCACGCCGTTATCGAGTGGGGATGCTCGCCTTG  
 GAAATGCTGGGACGAAGAGCTCACACGACCACCAACAACCTTCTCGGAGCCCTCCCTACACTGATG  
 ACGTGAAGTGGCTGCTGGCTGGCTGCGAAGCTGGGCGTGAATTATGTACACCAAGTCTGTGTGGGCGC  
 GGCAAAAGGCGTGTGTCTCCTTTTGTCTGCAGGAAATCGTCATGGAAACACTGCAGCGACTTTCACCG  
 GCTCACGCCATAAACCACTTGAGAGCGCCGCGATTCCATCAGCTTGTGCAGCGATGCCAACAGGCGTATA  
 TGCAGTACATACACCACAGACTCATCCATCTTACGCCCGCAGACTACGACGACTTCGTGAATGCCATTCCG  
 CAGCGCTCGTCCGATTCTGTTTGACACCCATGGGTATGATGCAGTTCAACGATATATTGCAGAACCTC  
 AAGAGATCCAACAGACTAAGGAGCTGTGGCAACGGGTAAGT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG223577 representing NM\_015037

Red=Cloning site Green=Tags(s)

MELMFAEWEDGERFSFEDSDRFEEDSLCSFISEAESLQNWGRWRKQSAGPNSPTGGGGGGSGGTRMRD  
 GLVIPLVELSAKQVAFHIPPFEVVEKVPPVPEQLQLRIAFWSPENEEDIRLYSCLANGSADEFQRGDQL  
 FRMRAVKDPLQIGFHLSATVVPVPMVPPKAYNVAVMFDRCRVTSCTCGAGAKWCTHVALCLFRIHN  
 ASAVCLRAPVSESLRSLQRDQLQKFAQYLISELPQQILPTAQRLLDELLSSQSTAINTVCGAPDPTAGPS  
 ASDQSTWYLDESTLTDNIKTLHKFCGSPVVFSDVNSMYLSSTEPPAAAEWACLRLRPLRGREPEGVWNL  
 LSIIVREMFKRDSNAAPLLEILTDQCLTYEQITGWWSVRTSASHSSASGHTGRSNGQSEVAAHACASMC  
 DEMVTLWRLAVLDPALSPQRRELCTQLRQWQLKVIENVKRGQHKKTLERLFPGFRPAVEACYFNWEEAY  
 PLPGVITYSGTDRKLALCWARALPSRPGASRSGGLEESRDRPRPLTEPAVRPKEPGTKRKGLEGVPSQ  
 RGPRLSAEGDKALHKMGPGGGKAKALGGAGSGSKGSAGGSKRRLSSEDSSLEPDLAEMSLDDSSLAL  
 GAEASTFGGFPEPPPCPLHGSRGPSTFLPEPDTYEEDGGVYFSEGPEPTASVGPGLLPDGVCTQD  
 DLPSTDESGNPLPKTKEAAPAVGEEDDDYQAYYLAQDGAGGEEEAEGGAGEEHLDFAGLKPLEQESRM  
 EVLFAEAALHAHGYSSEASRLTVELAQDLLANPPDLKVEPPPAKGGKKNKVVSTSRQTVWANTLSKAAFL  
 LTVLSERPEHHNLAFRVGMFALELQRPPASTKALEVKLAYQESEVAALLKKIPLGPSEMSTMRCRAEELR  
 EGTLCDYRPLPLMLASFIFDVLCAVVSPTGSRPPSRNWNSETPGDEELGFEAAVAALGMKTTVSEAEH  
 PLLCEGTRREKGLALALMITYKDDQAKLKKILDKLLDRESQTHKPQTLSSFYSSSRPTTASQRSPSKHG  
 GPSAPGALQPLTSGSAGPAQPGSVAGAGPGTEGFTEKNVPESSPHSPCEGLPSEAAALTPRPEGKVP SRL  
 ALGSRGGYNRGGWSPGRPKKHTGMASIDSSAPETTSDSSTPLSRRPLRGGWAPTSWGRGQSDSISSS  
 SSDSLGSSSSSRRASASGGARAKTVEVGRYKRRPESHAPHVNPQSEAAAHFYFELAKTVLIKAGGN  
 SSTSIFTHPSSSGGHQGPHRNLHLCAFEIGLYALGLHNFVSPNWL SRTYSSHVSWITGQAMEIGSAALTI  
 LVECWDGHLTPPEVASLADRASRARDSNMVRAAALAL SCLPHAHALNPNEIQRALVQCKEQDNLMLEKA  
 CMAVEEAAKGGGVYPEVLFEVAHQWFWLYEQTAGGSSTAREGATSCSASGIRAGGEAGRMPEGRGGPGT  
 EPVTVAAAATAATVVPVIVSGSSLYPGPLGHGHSPLHPYALQPHLPCSPQYLTHPAHPMPHM  
 PRPAVFPVPSSAYPQGVHPAFLGAQYPYSVTTPSLAATAVVSFPVPSMAPITVHPYHTEPGLPLPTSACE  
 LWGQGTVSSVHPASTFPAIQGASLPALTTQPSPLVSGGFPPPEEETHSQPNPHSLHHLHAAYRVGMLAL  
 EMLGRRANDHPNNSRSPPYTDDVKWLLGLAAKLGVNYVHQFCVGAAGVLPSPFVLEIVMETLQRLSP  
 AHAHNHLRAPAFHQLVQRCQAYMQYIHHRLIHLTPADYDDFVNAIRSAARSAFCLTPMGMQFNDILQNL  
 KRKQTKELWQRVS

TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI



<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_015037.2</a> , <a href="#">NP_055852.2</a>
<b>RefSeq Size:</b>	6077 bp
<b>RefSeq ORF:</b>	5529 bp
<b>Locus ID:</b>	23053
<b>UniProt ID:</b>	<a href="#">A7E2V4</a>
<b>Cytogenetics:</b>	10q22.2
<b>Gene Summary:</b>	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:33184234, 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 (PubMed:33184234, PubMed:33184237). Specifically recognizes and binds AGO proteins when they are engaged with a TDMD target (PubMed:33184234). May also acts as a regulator of axon guidance: specifically recognizes misfolded ROBO3 and promotes its ubiquitination and subsequent degradation (PubMed:24012004).[UniProtKB/Swiss-Prot Function]