

## Product datasheet for **MG223972**

### **Zswim5 (NM\_001029912) Mouse Tagged ORF Clone**

#### Product data:

|                           |                                                                                |
|---------------------------|--------------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                            |
| Product Name:             | Zswim5 (NM_001029912) Mouse Tagged ORF Clone                                   |
| Tag:                      | TurboGFP                                                                       |
| Symbol:                   | Zswim5                                                                         |
| Synonyms:                 | 4933426E21Rik; AI503093; mKIAA1511                                             |
| Mammalian Cell Selection: | Neomycin                                                                       |
| Vector:                   | pCMV6-AC-GFP (PS100010)                                                        |
| E. coli Selection:        | Ampicillin (100 ug/mL)                                                         |
| ORF Nucleotide Sequence:  | >MG223972 representing NM_001029912<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGAAGGAGGTGAGCGAGAGGAGCTGCTTTCGCCGCCGCCGATCTCTCCGGCCAAGAGGCTGTGCT  
CTTGGCCAGCCCGCAAGCTCACCACCCCGCGGGACTCCCGGGCAGCCGGCGGAGGGCGGGGGCGG  
CGGCGGGCTGCCTGGCCCCGGGGCCCGCCCCACCTGCAGCCGGAGTCCTTGCTGGACTGCGCCGCC  
AAGACGGTGGCGAAAAGTGGGCGTACGAGCGGGTGGAGGAGCGCTTCGAGCGGATCCCGGAGCCGGTGC  
AGCGCCGATCGTCTACTGGTCTTCCCGCGGAATGAGCGGGAGATCTGCATGTACTCCAGCTTCCAGTA  
CCGGGGCGGCCCGGAGCCGGCGCGGCTGCCGGCGCGCGGGGGCTTCGCCGGTCGAGGAGGGGCCGCCG  
CCACCCCGGGGCCCGCGCTCCGGCCGGCTCCGCCCGGGGCCCGGGCGGGCTCGTCCCCCGGGC  
TGGGCGCTGGGACTGGAACGGCGAGCGCGGCTGCGGCGCGCGGAGGGGCTGCCGTTCCGCCGGGGCAT  
CCGTCTGCTGGACAGCGGCTCCGTGGAGAACGTGCTTCAAGTCGGCTTCCATCTGAGTGGCACAGTCACG  
GAACCAGCATGGCTTCTGAGCCAGCAGTGACTTACAAGTTGCCATCAGCTTTGATCGATGCAAAATCA  
CGTCTGTGAGCTGCGGCTGTGGGAATAAGGACATATTCTACTGTGCTCACGTGGTAGCACTCTCTCTA  
CCGGATCCGGAACAGACAGGTCAAACCTCGTCTTCTATCTCAGAAACCTTTCCAGATGAACAGG  
GACCAGTACAGAAGTTTATTCAGTATTTAATCACAGCACACCACTGAAGTTCTTCTACTGCACAAA  
AGCTGGCAGATGAGATTCTGTCTCCAACCTCAGAAATCAACCAAGTGAATGGCGCCCTGACCCACAGC  
TGGGGCCAGCATCGATGATGAGAACTGTTGGCACTTGGATGAAGAACAAGTGAAGAACAAGTGAAGCTC  
TTTCTCTCCAGGGGGTTACTATGGCTCTGGGAAGCAGCTCAACTCAATGTTTGCCAAGGTTTCGAGAGA  
TGCTTCGAATGAGAGATTCTAATGGAGCCAGGATGCTGACACTTATCACTGAGCAATTTATGGTGATCC  
ACGCTCACACTCTGGAGGCAGCAAGGAACAAGCATGACAGACAAGTGCAGGCAGCTCTGGGATGAGCTA  
GGGGCTTTATGGGTGTGCATAATTTTAAATCCACACTGCAAACTAGAAGAAAAATCTTGTGGCTCCAGC  
AACTGCAGAAGTGAGGACCTGGATATCTGTCCCTGGAGGATGAAACTATGGGCATGAGCTGCCAA  
CATTACCAATGCGCTCTCCAGAGTGCCAGCCACAGCCAGACTCTTTATCCAGACCAAGACGAACAGTC



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TTCACTAGAGCCATTGAAGGTCGTGAGTTGCATTGGCAGGACAGCCACCTACAACGAATAATCAGCAGTG  
 GGATCTATACAGCTCCTGCCTGCCAGCGGGAAAATGAGCGACTACTCTTTAATCCCATGGCCAGCCACT  
 GTGGCTTGAGCATGTGCCTACAGCCTGTGCTCGGGTTGATGCACTGCGATCTCATGGGTATCCAAAAGAG  
 GCTCTCAGACTCACGGTGGCCATCATTAACTCTGAGGTTGCAGCAGCAGCGGCAGCTAGAGATCTACA  
 AACATCAGAAGAAAGAGTTGTTGCAGAGAGGAACGACAACAATCACAACCTGGAGGGCTGGGTGGGCCA  
 TCCCCTGGATCCCATTGGCTGCCTGTTTCTCACTTTGACTGAAGCCTGCCGCTGAATGATGACAGCTAC  
 ATGGAGATGTCAGATATGAATGAAAGCAGACTTCCTGTGTACCAGCATGTACCTGTGGCTTCAGGCTGCC  
 CAAACAGCAATGAGTCGTACCTGTCACTGGCCCTGGAGGTTGCTCTGATGGGCATGGGACAACAGAGAGT  
 GATGCCTGAAGGCCTCTATGCACAGGACAAGGTGTGCCGTAATGAGGAGCAACTCCTGAGCCAACCTCCAG  
 GAACTGCAGCTGGATGATGAGCTAGTCCAGACCCTGCGCAAACAGTGCATCTTACTGCTGGAGGGAGGCC  
 CCTTCAGCGGCCCTCGGAGAAGTCATCCACCGGGAGAGTGTTCCTATGCACACCTTTGCAAAGTATCTGTT  
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 TGCTCAACGTGGCCCTGGAGCTGGGGTTACAGGTGATGCGGATGACCTTATCAACCCCTAATTGGAGGCG  
 CCGAGAGATGGTTCGATGGCTGGTTACTTGTGCTACAGAAGTGGGTGTGCGGGCCCTGGTGAATCTTG  
 CAGAGCTGGTACACACTTTCACCCGACTGAGGCTACAAGTATTGTGGCTGCCACAGCCGATCCACACA  
 CCACTATCCTGCGCCTCAGCCTTGACTACCCACAGCGGGAGGAAGTGGCTAGCTGTGCTCGCAGCTGGC  
 CCTACAGTGTGCTATGAAGGATCCACAGAGCTGTGCCTTATCAGCTCTTACACTTTGTGAGAAAGACCAC  
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 TCACCATTGCCCCGCTACATGGAGCTCCGTGGCTACCCGCTACGTGCCTTCAAGCTGGCCTCACTAGCCAT  
 GAGCCATCTTAACCTGGCCTACAACCAGGACACCCATCCAGCCATCAATGATGTGCTCTGGGCTTGTGCT  
 CTCAGCCACTCTCTGGGCAAGAATGAACTGGCAGCTCTCATCCCCCTGGTGGTGAAGAGTGTGCACTGTG  
 CCACAGTGCTTTCTGATATCCTGCGTCGGTGCACAGTGAAGTGGCCAGGCCTGGCAGGCATCCCAGGCCG  
 CCGCAGCTCCGGAAGCTCATGTCAACAGACAAAGCCCCACTGCGCCAGCTACTGGATGCAACCATCAAT  
 GCCTACATCAACACCACACACTCCCGTCTGACACACATCAGTCCCCGCCACTATGGAGAGTTCATTGAGT  
 TTCTGAGCAAAGCTCGTGAGACCTTCTACTGCCCCAGGATGGTCACTTGCAATTTGCCAATTCATTGA  
 CAACCTCAAACAGATATACAAAGGCAAGAAGAAGCTGATGCTGTTGGTTCGGGAGCGCTTTGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

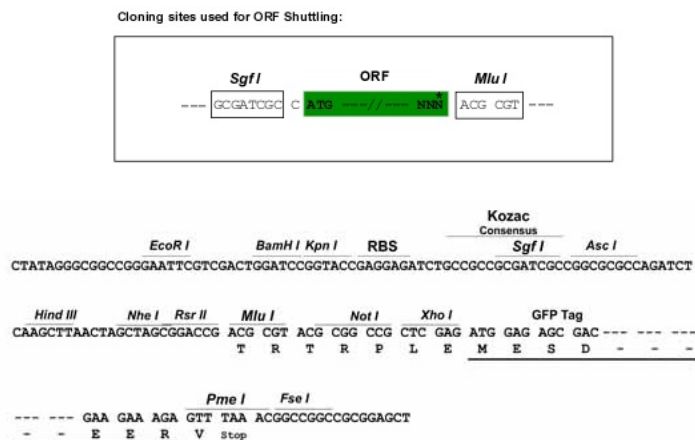
**Protein Sequence:** >MG223972 representing NM\_001029912  
 Red=Cloning site Green=Tags(s)

MAEGGEREELLSPPIIPAKRLCSWSPQAHHPRGTPGAAGGGAGGGGGCLAPGARPHLQPESLLDCAA  
KTVAEKWAYERVEERFERIPEPVQRRIVYWSFPRNEREICMYSSFQYRGGPGAGAAAGAASPVEEGPP  
PPPGAAAPAGSAPGAAGAGSSPLGAGTGTASGGCGGGEGLPFRRGIRLLDSGSVENVLQVGFHLSGTVT  
EPAMASEPAVTYKVAISFDRCKITSVSCGCGNKDIFYCAHVVALSLYRIRKPDQVKLRLPISETLFQMN  
DQLQKFIOYLITAHHTEVLPTAQKLADEILSSNSEINQVNGAPDPTAGASIDDENCWHLDEEQVKEQVKL  
FLSQGGYGGSGKQLNSMFAKVREMLRMRDSNGARMLTLITEQFMADPRLTLWRQQTSMTDKCRQLWDEL  
GALWVCIILNPHCKLEEKSCWLQQLQKWSDLICPLEDGNYGHELPNITNALSQSASHSPDSL SRPRTV  
FTRAIEGRELHWQDSLQRIISSGIYTPACQRENERLLFNSHGQPLWLEHVPTACARVDALRSHGYPKE  
ALRLTVAIINTLRLQQQRQLEIYKHQKKELLQRGTTTITNLEGWVGHPLDPIGCLFLTLEACRLNDDSY  
MEMSDMNESRLPVYQHPVVASGCPNSNESYLSLALEVALMGMGQQRVMPEGLYAQDKVCRNEEQLLSQLQ  
ELQLDDELVQTLRKQCILLLEGGPFGSLGEVIHRESVPMHTFAKYLFSALLPHDPDL SYKLALRAMRLPV  
LENSSSAGDTSHPHHMVSVPVSPRYPRWFTLGHLESQQCELASTMLTAAKGDTLRLRTLLEAIQKHIHSPS  
LIFKLAQDAFKIATPTDSDTGTLNVALELGLQVMRMTLSTLNWRREMEVRLVTCATEVGVRALVSIL  
QSWYTLFTPTEATSIVAATAVSHTTILRLSLDYPQREELASCARTALQCAMKDPQSCALSALTLCEKDH  
IAFEAYYQIAIDAAAGVMSHSLFTIARYMELRGYTPRAFKLASLAMLNLAQNDTHPAINDWLWACA  
LSHSLGKNELAAIPLVGMKSVHCAFTVLSIDLRCTVTAPLAGIPIGRSSSLAKMSTDKAPLRQLLDATIN  
AYINTHSHRLTISPRHYGEFIEFLSKARETFLPODGHLOFAQFIDNLKOIYKGGKKKMLLVREREG

TRTRPLE - GFP Tag - V

**Restriction Sites:** Sgfl-MluI

### Cloning Scheme:

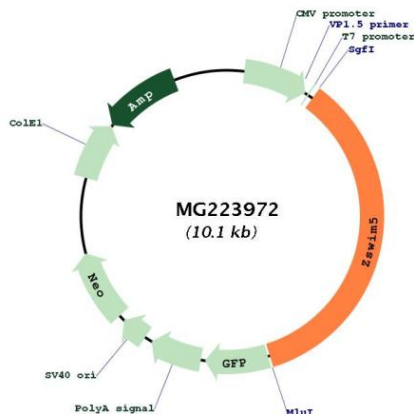


ACCN: NM\_001029912

ORF Size: 3564 bp

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>RefSeq:</b>                | <a href="#">NM_001029912.2</a> , <a href="#">NP_001025083.1</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>RefSeq Size:</b>           | 5397 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RefSeq ORF:</b>            | 3567 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Locus ID:</b>              | 74464                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>UniProt ID:</b>            | <a href="#">Q80TC6</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Cytogenetics:</b>          | 4 D1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

## Product images:



Circular map for MG223972