

Product datasheet for **MG222708**

Izumo1 (NM_001018013) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Izumo1 (NM_001018013) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Izumo1
Synonyms: 1700058F15Rik; Izumo
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG222708 representing NM_001018013
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGGCCGATTTTACACTCTTGCTGGCAGCTCTTGCCAACTGCCTGTGTCCAGGGAGGCCCTGCATCA
 AATGTGACCAGTTTGTGACAGATGCGCTAAAGACTTTGAAAACACTTACCTGAATGACCACCTGCCACA
 CGACATTCACAAAATGTAATGAGGATGGTGAACCATGAAGTATCGAGCTTCGGCGTAGCACTTCGGCT
 GAGGATTCCTATTTGGGGCCGTGGACGAGAACAACACTGGAACAAGCAACCTGGAGTTTTCTGAAGGATC
 TGAAGCGTATTACAGACAGTGACTTAAAAGGAGAGCTCTTTATAAAGGAAGTATTGTGGATGCTTCGTCA
 TCAAAGGACATCTTAAACAATCTTGCTAGACAGTTCAAAAGGAAGTCTTTGTCCCAACAATGCCGA
 GTGATGTCGACAGACTTTGATCTGGTGTCTTAAGTGCAGAAAAGCAGTTGCACATTTGTCGGAATCCCTAG
 ATTGTGGAGAGCGCCACATAGAGGTACATCGCTCGGAAGACCTGGTCTGGACTGTCTGCTCAGTTGGCA
 TCGTGTCTTAAGGGACTTACAGATTACAGTTTTTACAGGGTTTGGGAGAACAGTTCTGAGACCTTGATT
 GCCAAGGGGAAAGAACCATATCTGACCAAGTCGATGGTGGTCCAGAGGATGCTGGCAACTACCGCTGTG
 TGCTAGATACCATCAACCAAGGTCATGCCACCGTCATCCGCTACGATGTCACAGTATTGCCCCAAAGCA
 TTCAGAGGAAAACCAACCACCGAACATCATAACCCAAGAGGAGCAGGAGACTCCTGTCCACGTGACTCCA
 CAGACACCACCGGGCAGGAGCCAGAGTCGGAGCTGTACCCGAGCTGCACCCAGAGTTGTACCCGGAGC
 TCATACCTACAGTCGCTCAAAATCCAGAGAAAAAATGAAAACCTCGCCTTTAATACTGTTGACCCCTGG
 CTTTGTGGTTCTTGTTGGCCAGCATCATTATCTCGTACTTCACTTTAGGAAAGTCAGCGCTAAATTAAG
 AATGCAAGTGACGAAGTCAAACCCACCGCTCAGGATCCAAGTCAGATCAGAGTTTGTCCCAACAGATGG
 GATTGAAGAAGGCCTCTCAGGCAGATTTAACTCTGACTACTCTGGAGATAAGAGCGAGGCAACAGAAAA
 C

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG222708 representing NM_001018013
 Red=Cloning site Green=Tags(s)

MGPHTLLLAALANCLCPGRPCIKCDQFVTDALKTFENTYLNHDLPHDIHKVMRMVNHEVSSFGVVTSA
 EDSYLGAVDENTLEQATWSFLKDLKRITDSDLKGELFIKELLWMLRHQKDI FNNLARQFQKEVLCPNKCG
 VMSQTLIWCLKCEKQLHICRKS LDCGERHIEVHRSEDLVLDCLLSWHRASKGLTDYSFYRWENSSETLI
 AKGKEPYLTKSMVGPEDAGNYRCVLD TINQGHATVIRYDVTLPKHSEENQPPNIITQEEHETPVHVT
 QTPPGQPEPESELYPELHPELYPELIPTVAQNPEKMKTRLLILLTLGFVVLVASIIISVLHFRKVS AKLK
 NASDEVKPTASGSKSDQSLSQMGLKKASQADFNSDYS GDKSEATEN

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja1776_a08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001018013

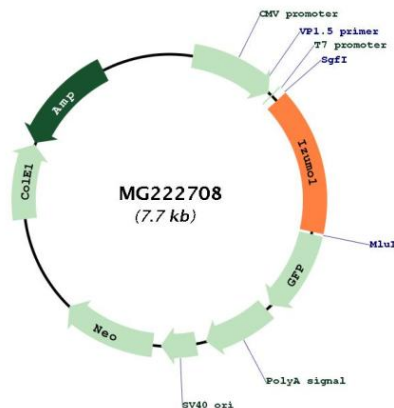
ORF Size: 1191 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<u>NM_001018013.1, NP_001018013.1</u>
RefSeq Size:	1493 bp
RefSeq ORF:	1194 bp
Locus ID:	73456
UniProt ID:	<u>Q9D9J7</u>
Cytogenetics:	7 B3
Gene Summary:	Essential sperm cell-surface protein required for fertilization by acting as a ligand for IZUMO1R/JUNO receptor on egg (PubMed:15759005, PubMed:24739963, PubMed:27309808). The IZUMO1:IZUMO1R/JUNO interaction is a necessary adhesion event between sperm and egg that is required for fertilization but is not sufficient for cell fusion (PubMed:15759005, PubMed:24739963, PubMed:27309808). The ligand-receptor interaction probably does not act as a membrane 'fusogen' (PubMed:15759005, PubMed:24739963, PubMed:27309808). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG222708