

## Product datasheet for MR222708

### Izumo1 (NM\_001018013) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Izumo1 (NM\_001018013) Mouse Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Izumo1  
**Synonyms:** 1700058F15Rik; Izumo  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >MR222708 representing NM\_001018013  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGGCCGATTTTACACTCTTGCTGGCAGCTCTTGCCAACTGCCTGTGTCCAGGGAGGCCCTGCATCA  
 AATGTGACCAGTTTGTGACAGATGCGCTAAAGACTTTGAAAACACTTACCTGAATGACCACCTGCCACA  
 CGACATTCACAAAATGTAATGAGGATGGTGAACCATGAAGTATCGAGCTTCGGCGTAGCACTTCGGCT  
 GAGGATTCCTATTTGGGGCCGTGGACGAGAACAACACTGGAACAAGCAACCTGGAGTTTTCTGAAGGATC  
 TGAAGCGTATTACAGACAGTGACTTAAAAGGAGAGCTCTTTATAAAGGAACCTATTGTGGATGCTTCGTCA  
 TCAAAGGACATCTTTAAACAATCTTGCTAGACAGTTCAAAAGGAAGTTCTTTGTCCCAACAATGCCGA  
 GTGATGTCGCAGACTTTGATCTGGTGTCTTAAGTGCAGAAAAGCAGTTGCACATTTGTCGGAATCCCTAG  
 ATTTGTGGAGAGCGCCACATAGAGGTACATCGCTCGGAAGACCTGGTCTGGACTGTCTGCTCAGTTGGCA  
 TCGTGTCTTAAGGGACTTACAGATTACAGTTTTTACAGGGTTTGGGAGAACAGTTCTGAGACCTTGATT  
 GCCAAGGGGAAAGAACCATATCTGACCAAGTCGATGGTGGTCCAGAGGATGCTGGCAACTACCGCTGTG  
 TGCTAGATACCATCAACCAAGGTCATGCCACCGTCATCCGCTACGATGTCACAGTATTGCCCCAAAGCA  
 TTCAGAGGAAAACCAACCACCGAACATCATAACCCAAGAGGAGCAGGAGACTCCTGTCCACGTGACTCCA  
 CAGACACCACCGGGCAGGAGCCAGAGTCGGAGCTGTACCCGAGCTGCACCCAGAGTTGTACCCGGAGC  
 TCATACCTACAGTCGCTCAAATCCAGAGAAAAAATGAAAACCTCGCCTTTAATACTGTTGACCCCTGG  
 CTTTGTGGTTCTTGTTGGCCAGCATCATTATCTCGTACTTCACTTTAGGAAAGTCAGCGCTAAATGAAG  
 AATGCAAGTGACGAAGTCAAACCCACCGCTCAGGATCCAAGTCAGATCAGAGTTTGTCCCAACAGATGG  
 GATTGAAGAAGGCCTCTCAGGCAGATTTAACTCTGACTACTCTGGAGATAAGAGCGAGGCAACAGAAAA  
 C

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR222708 representing NM\_001018013  
 Red=Cloning site Green=Tags(s)

MGPHTLLLAALANCLCPGRPCIKCDQFVTDALKTFENTYLNHDLPHDIHKNVMRMVNHEVSSFGVVTSA  
 EDSYLGAVDENTLEQATWSFLKDLKRITDSDLKGFLEKELLWMLRHQKDI FNNLARQFQKEVLCPNKCG  
 VMSQTLIWCLKCEKQLHICRKS LDCGERHIEVHRSEDLVLDCLLSWHRASKGLTDYSFYRWENSSETLI  
 AKGKPEYLT KSMVGPEDAGNYRCVLD TINQGHATVIRYDVTLPKPKHSEENQPPNIITQEEHETPVHVT  
 QTPPGQPESELYPELHPELYPELIPTVAQNPEKMKTRLLILLTLGFVVLVASIIISVLHFRKVS AKLK  
 NASDEVKPTASGSKSDQSLSQMGLKKASQADFNDSYSGDKSEATEN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9018\\_f06.zip](https://cdn.origene.com/chromatograms/mm9018_f06.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001018013

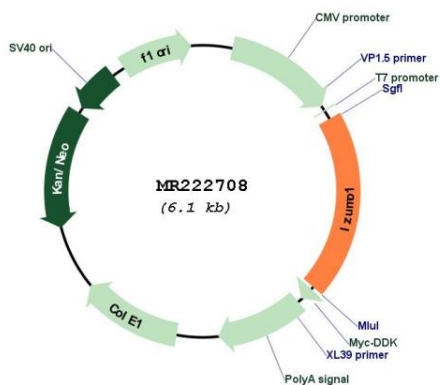
**ORF Size:** 1191 bp

**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](mailto: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](#)

<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>	<u>NM_001018013.1, NP_001018013.1</u>
<b>RefSeq Size:</b>	1493 bp
<b>RefSeq ORF:</b>	1194 bp
<b>Locus ID:</b>	73456
<b>UniProt ID:</b>	<u>Q9D9J7</u>
<b>Cytogenetics:</b>	7 B3
<b>MW:</b>	45.3 kDa
<b>Gene Summary:</b>	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 MR222708