

## Product datasheet for MC211426

### Izumo1 (NM\_001018013) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Izumo1 (NM_001018013) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Izumo1
Synonyms:	1700058F15Rik; Izumo
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
Fully Sequenced ORF:	>MC211426 representing NM_001018013 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGCCGATTTTACACTCTTGCTGGCAGCTTTGCCAACTGCCTGTGTCCAGGGAGGCCCTGCATCA  
AATGTGACCAGTTTGTGACAGATGCGCTAAAGACTTTTCGAAAACACTTACCTGAATGACCACCTGCCACA  
CGACATTCACAAAATGTAATGAGGATGGTGAACCATGAAGTATCGAGCTTCGGCGTAGCACTTCGGCT  
GAGGATTCCTATTTGGGGCCGTGGACGAGAACAACACTGGAACAAGCAACCTGGAGTTTTCTGAAGGATC  
TGAAGCGTATTACAGACAGTGACTTAAAAGGAGAGCTCTTTATAAAGGAACTATTGTGGATGCTTCGTCA  
TCAAAAAGGACATCTTAAACAATCTTGCTAGACAGTTCCAAAAGGAAGTTCTTTGTCCCAACAAATGCGGA  
GTGATGTCGCAGACTTTGATCTGGTGTCTTAAGTGCGAAAAGCAGTTGCACATTTGTGCGAAATCCCTAG  
ATTGTGGAGAGCGCCACATAGAGGTACATCGCTCGGAAGACCTGGTCTGGACTGTCTGCTCAGTTGGCA  
TCGTGCTTCTAAGGGACTTACAGATTACAGTTTTTACAGGGTTTGGGAGAACAGTTCTGAGACCTTGATT  
GCCAAGGGGAAAGAACCATATCTGACCAAGTCGATGGTGGTCCAGAGGATGCTGGCAACTACCGCTGTG  
TGCTAGATACCATCAACCAAGTCAATGCCACCGTCAATCCGCTACGATGTCACAGTATTGCCCCAAAGCA  
TTCAGAGGAAAACCAACCACCGAATCATAACCAAGAGGAGCAGAGACTCCTGTCCACGTGACTCCA  
CAGACACCACCGGGCAGGAGCCAGAGTCGAGGCTGTACCCGGAGCTGCACCCAGAGTTGTACCCGGAGC  
TCATACCTACAGTCGCTCAAAATCCAGAGAAAAAATGAAAACCTCGCCTCTTAATACTGTTGACCCTTGG  
CTTTGTGGTTCTTGTCGACGATCATTATCTCGTACTTCACTTTAGGAAAGTCAGCGCTAAATTTGAAG  
AATGCAAGTGACGAAGTCAAACCCACCGCGTCAGGATCCAAGTCAGATCAGAGTTTGTCCCAACAGATGG  
GATTGAAGAAGGCCTCTCAGGCAGATTTAACTCTGACTACTCTGGAGATAAGAGCGAGGCAACAGAAAA  
CTAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001018013

**Insert Size:** 1194 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](#)

**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.

**RefSeq:** [NM\\_001018013.1](#), [NP\\_001018013.1](#)

**RefSeq Size:** 1493 bp

**RefSeq ORF:** 1194 bp

**Locus ID:** 73456

**UniProt ID:** [Q9D9J7](#)

**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]