

Product datasheet for **SC124645**

IZUMO1 (NM_182575) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IZUMO1 (NM_182575) Human Untagged Clone
Tag:	Tag Free
Symbol:	IZUMO1
Synonyms:	IZUMO; OBF
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_182575, the custom clone sequence may differ by one or more nucleotides

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ATGGGGCCGATTTTACCCTCCTGTGTGCGGCGCTGGCCGTTGCTTGCTTCTGCCGAGGGGTGTGTTA
TATGTGACCCGTCTGTCGTGCTGGCGCTAAAGTCCCTGGAGAAAGATTACCTGCCTGGCCACCTGGATGC
GAAGCATCACAAGCCATGATGGAAAGGGTAGAGAATGCCGTGAAGGATTTCCAGGAACTGTCGCTTAAT
GAGGATGCCTATATGGGGTCTGTTGATGAGGCCACACTGCAAAAGGGTCTGGAGTTTGTGAAGGATC
TGAAACGCATCACAGACAGTGATGTAAGGCGATCTCTTCGTGAAGGAGCTATTTGGATGTTGCACTT
GCAAAAGGAAACCTTTGCCACCTATGTTGCTCGATTCCAAAAAGAGGCTTATTGTCCCAACAAATGGGT
GTGATGTTGCAAACTCTGATCTGGTGCAAGAACTGCAAAAAGGAGTTTACGCTTGTGCAAAAGTCCACG
ATTGCGGGGAGCGGAATGTGGAAGTTCCCTCAAATGGAAGACATGATCCTGGACTGTGAGTTAAACTGGCA
TCAGGCTTCGGAAGGCCCTCACTGATTACAGCTTTTACAGGGTTTGGGGGAACAATACGGAGACCTTGGTG
TCCAAGGGGAAAGAGGCCACCCTGACCAAGCCCATGGTGGTCCAGAGGATGCAGGCAGCTACCGCTGCG
AGCTGGCTCTGTGAATCCAGCCAGCCACGATCATCAATTTTACGTACAGTGTGCCCCAAATGAT
CAAGGAGGAAAAACCTTCTCAAATATCGTAACCCCGGGGAGGCGACCACGGAGTCGTCATAAGCCTC
CAGCCTCTGCAGCCGAGAAAATGCTGGCAAGCCGCTTCTGGGGCTGCTGATCTGCGGCTCCCTAGCAT
TGATAACCGCCTTACCTTTGCGATATTCGTGCAAGGAAGGTGATCGATTTTCATCAATCCTCACTGTT
TGGCCTTGGCAGTGGAGCGGCCAGCAAACCCAGGTCCAAAAAGAAAAGGCCACAGATTCGAGGCAACAA
TAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_182575 unedited TTTGTAATCCGACTTACTATAGGGCGGCCGCAATTCGCACGAGGCTTATGAGTGATTC CTGTTTAAATAGTTTTCTGATCTCTCAGTTGGGGGATTCACTGAGAACCCTAAATTTTGG GTCCCCCTGGATTGGGGCTCAGTTTACACTTCGGAGGCATTTGATGAAGGACATAGGTCC TCTTTATTTGGAGATTTCTGAAGATCCTCTTTTCGAGGTTTTCGGACCCCATGGATAGG CGGCCACGTGGGATTTCTTAAGATGGATTTTGGCTTTTCTCCGTTTAGCGTTCTCCTGCT CTCGGTTTGGGGTGAGAGCACCTTCTAACGGTCTTCGGGAACGTGCGCGCCGGCTGC AATGGGGCCGCATTTTACCCTCCTGTGTGCGGCGCTGGCCGTTGCTTGCTTCTGCCGA GGGGTGTGTTATATGTGACCCGTCTGTCGTGCTGGCGCTAAAGTCCCTGGAGAAAGATTA CCTGCCTGGCCACCTGGATGCGAAGCATCACAAGCCATGATGGAAAGGGTAGAGAATGC CGTGAAGAATTTCCAGGAACTGTCGTTAATGAGGATGCCCTATATGGGGTTCGTTGATG AGGCCACACTGCAAAACGGTCTGGAGTTTGTGAAGGATCTGAAACGCATCACAGACA GTGATGTAAAAGGCGATCTCTGTGAAGGAGCTATTTTGGATGTTGCACTTGCAAAAGG AACCTTTGCCCTATGTTGCCCTCGATCCAAAAAGAGCTATTGTCCCAACAATGTGGGG AGCCTGGATCACAAAGGTAACCCTCATCCTGCCCTCTGAAAGGCCACCTCCCACCTCCC TTTTGGGTCCCGGGCCTTTGCCATCTCTGCCTG
Restriction Sites:	NotI-NotI
ACCN:	NM_182575
Insert Size:	4700 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_182575.1</u> , <u>NP_872381.1</u>
RefSeq Size:	1695 bp
RefSeq ORF:	1053 bp
Locus ID:	284359
UniProt ID:	<u>Q8IYV9</u>
Cytogenetics:	19q13.33
Protein Families:	Transmembrane

Gene Summary:

The sperm-specific protein Izumo, named for a Japanese shrine dedicated to marriage, is essential for sperm-egg plasma membrane binding and fusion (Inoue et al., 2005 [PubMed 15759005]).[supplied by OMIM, Mar 2008]