

Product datasheet for **RR206202**

Izumo1 (NM_001017514) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Izumo1 (NM_001017514) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Izumo1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR206202 representing NM_001017514
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGCTACATTTTACACTCTTGTGGCAGCTCTTGCCAACTGCCTGTGTCCAGCAAGGCTCTGCATCA
TATGTGACCCGTTTGTGGTGGCTGCAATAAAGACTTTGGAGCAGAATTACCTGCCTACCCACCTGGCGCC
CGAGCATCAGGAAGATGTAATGAAGAGGGTAGAGCAGGAAGTGAGGAACCTCGCTGATCTGCCCTTGAAT
CAGAATACCTTTCTGGGGTTGTAGATGAGGACACACTGGAACAAGCATCCTGGAGTTTTCTGAAGGATC
TGAAACGTATCACGGACAGTGACGTAAGGAGAGCTCTTTGTAAGGAGCTATTTGGATGCTTCGTTT
GCAAAAGGACATCTTTGCCACCCTTGTGCACGTTTCCAAAAGGAAGTTATTGTCCTAACCAATGTGGC
ACGATGTCGCAGACTCTGATCTGGTGAATAAGTGTGAGAAGCAGATGCACCTTCTGTCGAAATCCATGG
ATTGTGGAGAGCGCCAGATAGAGGTGCATCGCTTGAAGACATGGTCTTGGACTGCCAGCTCAGTTGGCA
TCACGCTTCTGAGGGACTTACGGATTACAGTTTCTACAGGGTTTGGGGAAACAGTTCTGAGACCTTGATG
TCCAAGGGAAAAGAACCTTACCTGACCAAGACGATGGTGGTCCAGAGGATGCTGGCAACTACCGCTGTG
AGCTGGACACCGTCAACGCTGGTCCCGCCACCATCATCTACTACCATGTCACAGTATTGCCCAAGGTC
TGTAGAGGAAAAACCACCGCCGAACATCGTAACCCAGGAGGAGGAAGAGACCCCTGTCCAGGTGATTGTA
CCGACGCTGGAGCCAGAGCCGGAGCCAGAGCCATACCTACAGTTACCCATCGTCCAGAAAAAAATTTGA
AAAGCCGCTCTTAATACTGTTGATCCTTGGCTTCGTGGTCTTGTGGCCAGCGTCATTGCCTCGGTA
TCACTTTAGAAAAACAGAGTTAAATCGAAGAAGCTCAATGTGAAAAACAAACCTCTGCGGCAGAAATTC
AAGTCAGAGGGCGGAATCACCCAAAAGATGGGATCGAGGAAGCTCTCTCAGGCAGAGTTTACACTGACT
CTTCGGATAAGGTTGAGGAAGCAGATAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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MGLHFTLLLAALANCLCPARLCIICDPFVVAIAIKTLEQNYLPTHLAPEHHEDVMKRVEQEVRFADLPLN
 QNTFLGVVDEDTLEQASWSFLKDLKRITDSDVKGELFVKELFWMLRLQKIDIFATLVARFQKEVYCPNCG
 TMSQTLIWCNKCEKQMHFCRKSMDCCGERQIEVHRLEDMLVDCQLSWHASEGLTDYSFYRVWGNSSSETLM
 SKGKEPYLTKTMVGPEDAGNYRCELDTVNAGPATIIYYHVTVLPPRSVEEKPPPNIVTQEEEEPTVQVIV
 PTLEPEPEPEPIPTVTHRPEKCLKSRLLILLILGFVVLVASVIASVLFHRKTRVKSKNSNVENKTSAAEF
 KSEAESPQKMGSRKLSQAEFHTDSSDKVEEADN

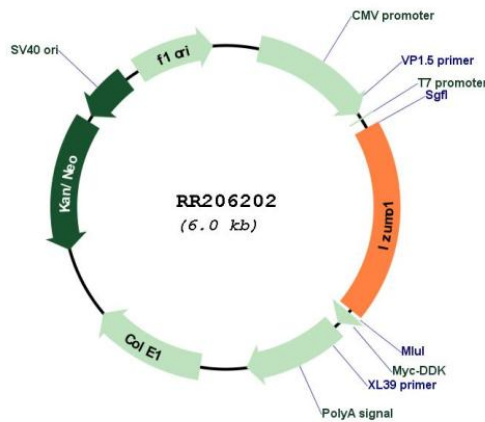
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001017514

ORF Size:	1149 bp
OTI Disclaimer:	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:	NM_001017514.1 , NP_001017514.1
RefSeq Size:	1503 bp
RefSeq ORF:	1152 bp
Locus ID:	499152
UniProt ID:	Q6AY06
Cytogenetics:	1q22
MW:	43.6 kDa
Gene Summary:	Essential sperm cell-surface protein required for fertilization by acting as a ligand for IZUMO1R/JUNO receptor on egg. 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. The ligand-receptor interaction probably does not act as a membrane 'fusogen'. [UniProtKB/Swiss-Prot Function]