

Product datasheet for RR206202L3

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Izumo1 (NM_001017514) Rat Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: Izumo1 (NM_001017514) Rat Tagged Lenti ORF Clone

Tag: Myc-DDK
Symbol: Izumo1

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

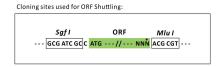
ORF Nucleotide The ORF insert of this of

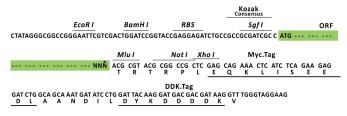
Sequence:

The ORF insert of this clone is exactly the same as(RR206202).

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_001017514

ORF Size: 1149 bp

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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: 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 001017514.1</u>, <u>NP 001017514.1</u>

 RefSeq Size:
 1503 bp

 RefSeq ORF:
 1152 bp

 Locus ID:
 499152

 UniProt ID:
 06AY06

Cytogenetics: 1q22

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]