

Product datasheet for MC226173

Olr1 (NM_001301094) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: Olr1 (NM_001301094) Mouse Untagged Clone

Tag: Tag Free

Symbol: Olr1

Synonyms: LOX-1; Scare1; SR-EI

Mammalian Cell Selection: Neomycin

Vector: pCMV6-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >MC226173 representing NM_001301094
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGATCGCC

ATGACTTTTGATGACAAGATGAAGCCTGCGAATGACGAGCCTGATCAGAAGTCATGTGGCAAGAAGCCTA
 AAGGTCTGCATTTGCTTTCTTCCCATGGTGGTCCCTGCTGCTATGACTCTGGTCATCCTCTGCCTGGT
 GTTGTGAGTGACCCTTATTGTACAGTGGACACAATGTCCTTGCCACAAGACTGGCTCTGGCATAAAGAA
 AACTGTTACCTCTTCCATGGGCCCTTTAGCTGGGAAAAAACCAGCAGACCTGCCAATCTTTGGGTGGCC
 AGTTACTACAAATTAATGGTGCAGATGATCTGACATTCATCTTACAAGCAATTTCCCATACCACTCCCC
 GTTCTGGATTGGATTGCATCGGAAGAAGCCTGGCCAACCATGGCTATGGGAGAATGGAACCTCTTTGAAT
 TTTCAATTCCTTAAGACCAGGGCGTTTCTTTACAGCTATATTCATCAGGCAACTGTGCATACCTTCAAG
 ACGGAGCTGTGTTGCTGAAAACCTGCATTCTAATTGCATTGAGCATATGTCAGAAGAAGACAAATCATTT
 GCAAATTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001301094

Insert Size: 570 bp



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| 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). |
| OTI Annotation: | Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag. |
| 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. |
| Note: | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required. |
| RefSeq: | <u>NM_001301094.1, NP_001288023.1</u> |
| RefSeq Size: | 3059 bp |
| RefSeq ORF: | 570 bp |
| Locus ID: | 108078 |
| Cytogenetics: | 6 F3 |

Gene Summary:

Receptor that mediates the recognition, internalization and degradation of oxidatively modified low density lipoprotein (oxLDL) by vascular endothelial cells. OxLDL is a marker of atherosclerosis that induces vascular endothelial cell activation and dysfunction, resulting in pro-inflammatory responses, pro-oxidative conditions and apoptosis. Its association with oxLDL induces the activation of NF-kappa-B through an increased production of intracellular reactive oxygen and a variety of pro-atherogenic cellular responses including a reduction of nitric oxide (NO) release, monocyte adhesion and apoptosis. In addition to binding oxLDL, it acts as a receptor for the HSP70 protein involved in antigen cross-presentation to naive T-cells in dendritic cells, thereby participating in cell-mediated antigen cross-presentation. Also involved in inflammatory process, by acting as a leukocyte-adhesion molecule at the vascular interface in endotoxin-induced inflammation. Also acts as a receptor for advanced glycation end (AGE) products, activated platelets, monocytes, apoptotic cells and both Gram-negative and Gram-positive bacteria (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (3) lacks exons in the coding region, compared to variant 1. The encoded isoform (3) is shorter, compared to isoform 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.