

## 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  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC226173 representing NM\_001301094  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACTTTTGATGACAAGATGAAGCCTGCGAATGACGAGCCTGATCAGAAGTCATGTGGCAAGAAGCCTA  
AAGGTCTGCATTTGCTTTCTCCCATGGTGGTCCCTGCTGCTATGACTCTGGTCATCCTCTGCCTGGT  
GTTGTCAGTGACCCTTATTGTACAGTGGACACAATGTCCTTGCCACAAGACTGGCTCTGGCATAAAGAA  
AACTGTTACCTCTCCATGGGCCCTTTAGCTGGGAAAAAACCAGGACACTGCCAATCTTTGGGTGGCC  
AGTACTACAAATTAATGGTGCAGATGATCTGACATTCATCTTACAAGCAATTTCCCATACCCACCTCCCC  
GTTCTGGATTGGATTGCATCGGAAGAAGCCTGGCCAACCATGGCTATGGGAGAATGGAACCTCTTTGAAT  
TTTCAATCTTTAAGACCAGGGCGTTTCTTTACAGCTATATTCATCAGGCAACTGTGCATACCTTCAAG  
ACGGAGCTGTGTTTCGCTGAAAACGCATTCTAATTGCATTCAGCATATGTCAGAAGAAGACAAATCATT  
GCAAATT**TAG**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001301094  
**Insert Size:** 570 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).



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<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001301094.1</a> , <a href="#">NP_001288023.1</a>
<b>RefSeq Size:</b>	3059 bp
<b>RefSeq ORF:</b>	570 bp
<b>Locus ID:</b>	108078
<b>Cytogenetics:</b>	6 F3
<b>Gene Summary:</b>	<p>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]</p> <p>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.</p>