

Product datasheet for **MC212167**

Olr1 (NM_138648) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Olr1 (NM_138648) 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:	>NM_138648.2 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTTTTGATGACAAGATGAAGCCTGCGAATGACGAGCCTGATCAGAAGTCATGTGGCAAGAAGCCTA
AAGGTCTGCATTTGCTTTCTTCCCATGGTGGTCCCTGCTGCTATGACTCTGGTCATCTCTGCCTGGT
GTTGTCAGTGACCCTTATTGTACAGTGGACACAATTACGCCAGGTATCTGACCTTTAAAACAATACCAA
GCGAACCTTACTCAGCAGGATCGTATCCTGGAAGGCAGATGTTAGCCCAGCAGAAGGCAGAAAACACTT
CACAGGAATCAAAGAAGGAAGTAAAGGAAAGATAGACACCTCACCCAGAAGCTGAACGAGAAATCCAA
AGAGCAGGAGGAGCTTCTACAGAAGAATCAGAACCTCCAAGAAGCCCTGCAAAGAGCTGCAAACCTTCA
GAGGAGTCCCAGAGAGAACTCAAGGAAAAGATAGACACCATCACCCGGAAGCTGGACGAGAAATCCAAAG
AGCAGGAGGAGCTTCTGCAGATGATTCAGAACCTCCAAGAAGCCCTGCAGAGAGCTGCAAACCTTTCAGA
GGAGTCCCAGAGAGAACTCAAGGAAAAGATAGACACCTCACCTTGAAGCTGAACGAGAAATCCAAGAG
CAGGAGGAGCTTCTACAGAAGAATCAGAACCTCCAAGAAGCCCTGCAAAGAGCTGCAAACCTTTTCAGGTC
CTTGTCACAAGACTGGCTCTGGCATAAAGAAAAGTACTACAAATTAATGGTGCAGATGATCTGACATTC
AAACCGGCAGACCTGCCAATCTTTGGGTGGCCAGTTACTACAAATTAATGGTGCAGATGATCTGACATTC
ATCTTACAAGCAATTTCCATACCACCTCCCGTTCTGGATTGGATTGCATCGGAAGAAGCCTGGCCAAC
CATGGCTATGGGAGAATGGAACCTCTTTGAATTTCAATTTCTTTAAGACCAGGGCGTTTCTTTACAGCT
ATATTCATCAGGCAACTGTGCATACCTTCAAGACGGAGCTGTGTTTCGCTGAAAAGTGCATTCTAATTGCA
TTCAGCATATGTCAGAAGAAGACAAATCATTTGCAAATTTAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja1464_f04.zip



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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_138648
Insert Size:	1092 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:	NM_138648.2 , NP_619589.2
RefSeq Size:	3581 bp
RefSeq ORF:	1092 bp
Locus ID:	108078
UniProt ID:	Q9EQ09
Cytogenetics:	6 F3
Gene Summary:	<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 (1) encodes the longest isoform (1).</p>