

Product datasheet for MR228178

Olr1 (NM_001301096) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Olr1 (NM_001301096) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Olr1
Synonyms: LOX-1; Scare1; SR-EI
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR228178 representing NM_001301096
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACTTTTGATGACAAGATGAAGCCTGCGAATGACGAGCCTGATCAGAAGTCATGTGGCAAGAAGCCTA
 AAGTCTTTGCCACAAGACTGGCTCTGGCATAAAGAAAAGTGTACCTCTCCATGGGCCCTTTAGCTG
 GGAAAAAACCGGCAGACCTGCCAATCTTTGGGTGCCAGTTACTACAAATTAATGGTGCAGATGATCTG
 ACATTCATCTTACAAGCAATTTCCCATACCACTCCCGTTCTGGATTGGATTGCATCGGAAGAAGCCTG
 GCCAACCATGGCTATGGGAGAATGGAACCTCTTGAATTTCAATTTTAAAGACCAGGGCGTTTCTTT
 ACAGCTATATTCATCAGGCAACTGTGCATACCTCAAGACGGAGCTGTGTTTCGCTGAAAAGTGCATTCTA
 ATTGCATTCAGCATATGTCAGAAGAAGACAAATCATTGCAAAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR228178 representing NM_001301096
 Red=Cloning site Green=Tags(s)

MTFDDKMKPANDEPDQKSCGKKPKGPCPQDWLWHKENCYLFHGPFSWEKNRQTCQSLGGQLLQINGADDL
 TFILQAI SHTTSPFWIGLHRKKPGQPWLWENGTPLNFFKTRGVSLQLYSSGNCAYLQDGA VFAENCIL
 IAFSICQKKTNHLQI

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI



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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:	<u>NM_001301096.1, NP_001288025.1</u>
RefSeq Size:	2957 bp
RefSeq ORF:	468 bp
Locus ID:	108078
Cytogenetics:	6 F3
MW:	18.2 kDa
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]