

# **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 >MR228178 representing NM\_001301096
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGACTTTTGATGACAAGATGAAGCCTGCGAATGACGAGCCTGATCAGAAGTCATGTGGCAAGAAGCCTA
AAGGTCCTTGTCCACAAGACTGGCTCTGGCATAAAGAAAACTGTTACCTCTTCCATGGGCCCTTTAGCTG
GGAAAAAAACCGGCAGACCTGCCAATCTTTGGGTGGCCAGTTACTACAAATTAATGGTGCAGATGATCTG
ACATTCATCTTACAAGCAATTTCCCATACCACCTCCCCGTTCTGGATTGGATTGCATCGGAAGAAGCCTG
GCCAACCATGGCTATGGGAGAATGGAACTCCTTTGAATTTTCAATTCTTTAAGACCAGGGGCGTTTCTTT
ACAGCTATATCATCAGCAACTGTGCATACCTTCAAGACGGAGCTGTGTTCGCTGAAAACTGCATTCTA

ATTGCATTCAGCATATGTCAGAAGAAGACAAATCATTTGCAAATT

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR228178 representing NM\_001301096

Red=Cloning site Green=Tags(s)

 ${\tt MTFDDKMKPANDEPDQKSCGKKPKGPCPQDwLwhKenCYLFHGPFSwEKNRQTCQSLGGQLLQINGADDLTFILQAISHTTSPFWIGLHRKKPGQPwLwengTPLNFQFFKTRGVSLQLYSSGNCAYLQDGAVFAENCIL}$ 

IAFSICQKKTNHLQI

**TRTRPL**EQKLISEEDLAANDILDYKDDDDK**V** 

**Restriction Sites:** Sgfl-Mlul



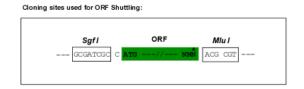
**OriGene Technologies, Inc.** 9620 Medical Center Drive, Ste 200

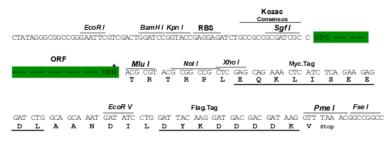
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



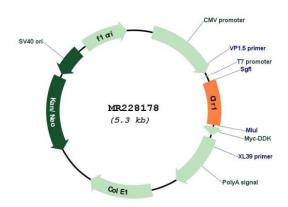
#### **Cloning Scheme:**





<sup>\*</sup> The last codon before the Stop codon of the ORF

### Plasmid Map:



**ACCN:** NM\_001301096

ORF Size: 465 bp

**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: NM 001301096.1, NP 001288025.1

18.2 kDa

RefSeq Size: 2957 bp RefSeq ORF: 468 bp Locus ID: 108078 Cytogenetics: 6 F3 MW:

**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 Tcells 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]