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Product datasheet for MR228384

Olr1 (NM_001301094) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Olr1 (NM_001301094) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Olr1
Synonyms:	LOX-1; Scare1; SR-EI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR228384 representing NM_001301094
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACTTTTGATGACAAGATGAAGCCTGCGAATGACGAGCCTGATCAGAAGTCATGTGGCAAGAAGCCTA
AAGGTCTGCATTTGCTTTCTTCCCCATGGTGGTTCCCTGCTGCTATGACTCTGGTCATCCTCTGCCTGGT
GTTGTCAGTGACCCTTATTGTACAGTGGACACAATGTCCTTGTCCACAAGACTGGCTCTGGCATAAAGAA
AACTGTTACCTCTTCCATGGGCCCTTTAGCTGGGAAAAAAACCGGCAGACCTGCCAATCTTTGGGTGGCC
AGTTACTACAAATTAATGGTGCAGATGATCTGACATTCATCTTACAAGCAATTTCCCATACCACCTCCCC
GTTCTGGATTGGATTGCATCGGAAGAAGCCTGGCCAACCATGGCTATGGGAGAATGGAACTCCTTTGAAT
TTTCAATTCTTTAAGACCAGGGGCGTTTCTTTACAGCTATATTCATCAGGCAACTGTGCATACCTTCAAG
ACGGAGCTGTGTTCGCTGAAAACTGCATTCTAATTGCATTCAGCATATGTCAGAAGAAGACAAATCATTT
GCAAATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR228384 representing NM_001301094
Red=Cloning site Green=Tags(s)

MTFDDKMKPANDEPDQKSCGKKPKGLHLLSSPWWFPAAMTLVILCLVLSVTLIVQWTQCPCPQDWLWHKE
NCYLFHGPFSWEKNRQTCQSLGGQLLQINGADDLTFILQAISHTTSPFWIGLHRKKPGQPWLWENGTPLN
FQFFKTRGVSLQLYSSGNCAYLQDGAVFAENCILIAFSICQKKTNHLQI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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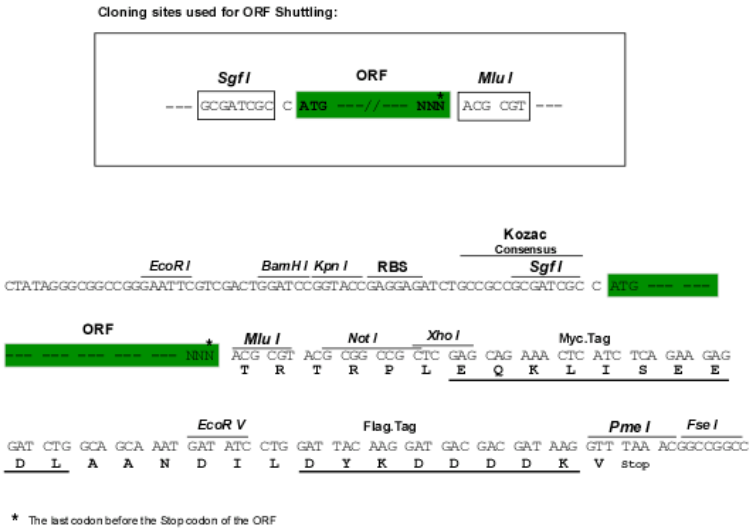
Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001301094

ORF Size: 567 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_001301094.1, NP_001288023.1

RefSeq Size: 3059 bp

RefSeq ORF: 570 bp

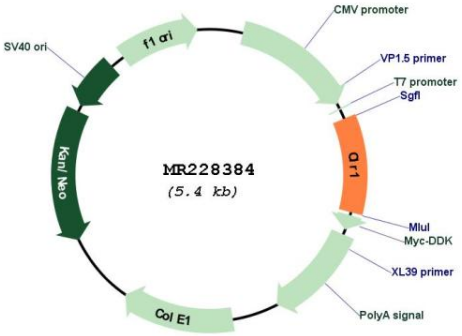
Locus ID: 108078

Cytogenetics: 6 F3

MW: 22 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]

Product images:



Circular map for MR228384