

## Product datasheet for **MG226641**

### Olr1 (NM\_138648) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Olr1 (NM_138648) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Olr1
Synonyms:	LOX-1; Scare1; SR-EI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG226641 representing NM_138648 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACTTTTGATGACAAGATGAAGCCTGCGAATGACGAGCCTGATCAGAAGTCATGTGGCAAGAAGCCTA  
AAGGTCTGCATTTGCTTTCTTCCCATGGTGGTCCCTGCTGCTATGACTCTGGTCATCTCTGCCTGGT  
GTTGTCAGTGACCCTTATTGTACAGTGGACACAATTACGCCAGGTATCTGACCTTTAAAACAATACCAA  
GCGAACCTTACTCAGCAGGATCGTATCCTGGAAGGGCAGATGTTAGCCCAGCAGAAGGCAGAAAACACTT  
CACAGGAATCAAAGAAGGAAGTAAAGGAAAGATAGACACCCTCACCCAGAAGCTGAACGAGAAATCCAA  
AGAGCAGGAGGAGCTTCTACAGAAGAATCAGAACCTCCAAGAAGCCCTGCAAAGAGCTGCAAACCTTCA  
GAGGAGTCCCAGAGAGAACTCAAGGAAAGATAGACACCATCACCCGGAAGCTGGACGAGAAATCCAAAG  
AGCAGGAGGAGCTTCTGCAGATGATTCAGAACCTCCAAGAAGCCCTGCAGAGAGCTGCAAACCTTTCAGA  
GGAGTCCCAGAGAGAACTCAAGGAAAGATAGACACCCTCACCTTGAAGCTGAACGAGAAATCCAAAGAG  
CAGGAGGAGCTTCTACAGAAGAATCAGAACCTCCAAGAAGCCCTGCAAAGAGCTGCAAACCTTTTCAGGTC  
CTTGTCACAAGACTGGCTCTGGCATAAAGAAAAGTGTACCTCTTCCATGGGCCCTTTAGCTGGGAAAA  
AAACCGGCAGACCTGCCAATCTTTGGGTGGCCAGTTACTACAAATTAATGGTGCAGATGATCTGACATTC  
ATCTTACAAGCAATTTCCATACCACCTCCCGTTCTGGATTGGATTGCATCGGAAGAAGCCTGGCCAAC  
CATGGCTATGGGAGAATGGAACCTCTTTGAATTTCAATTTCTTTAAGACCAGGGGCTTTCTTTACAGCT  
ATATTCATCAGGCAACTGTGCATACCTTCAAGACGGAGCTGTGTTGCTGAAAAGTGCATTCTAATTGCA  
TTCAGCATATGTCAGAAGAAGACAAATCATTGCAAAAT

**ACCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG226641 representing NM\_138648  
 Red=Cloning site Green=Tags(s)

MTFDDKMKPANDEPDQKSCGKKPKGLHLLSSPWFFAAMTLVILCLVLSVTLIVQWTLRQVSDLLKQYQ  
 ANLTQQDRILEGQMLAQQAENTSQESKKEKLGKIDTLTQKLEKSKEQEELLQKNQNLQEALQRAANSS  
 EESQRELKKGKIDITRKLDEKSKEQEELLQMIQNLQEALQRAANSSEESQRELKKGKIDTLTLKLEKSKE  
 QEELLQKNQNLQEALQRAANFSGPCPDWLWHKENCYLFHGPFWEKNRQTCQSLGGQLLQINGADDLTF  
 ILQAISHTTSPFWIGLHRKKPGQPWLWENGTPLNQFFKTRGVSLQLYSSGNCAYLQDGAVFAENCILIA  
 FSICQKKTNHLQI

TRTRPLE - GFP Tag - V

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1265\\_a09.zip](https://cdn.origene.com/chromatograms/ja1265_a09.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_138648

**ORF Size:** 1089 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\\_138648.2](#), [NP\\_619589.2](#)

**RefSeq Size:** 3581 bp

**RefSeq ORF:** 1092 bp

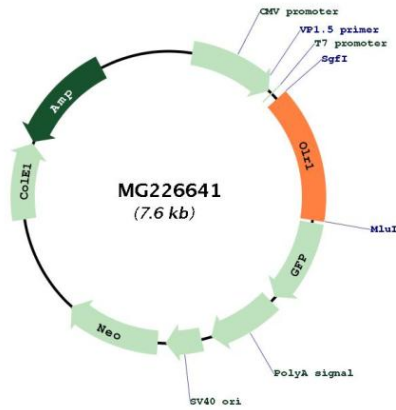
**Locus ID:** 108078

**UniProt ID:** [Q9EQ09](#)

**Cytogenetics:** 6 F3

**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 MG226641