

Product datasheet for **SC118589**

LOX 1 (OLR1) (NM_002543) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LOX 1 (OLR1) (NM_002543) Human Untagged Clone
Tag:	Tag Free
Symbol:	LOX 1
Synonyms:	CLEC8A; LOX1; LOXIN; SCARE1; SLOX1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC118589 sequence for NM_002543 edited (data generated by NextGen Sequencing)

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ATGACTTTTGATGACCTAAAGATCCAGACTGTGAAGACCAGCCTGATGAGAAGTCAAAT
GGAAAAAAGCTAAAGGTCTTCAGTTTCTTTACTCTCCATGGTGGTGCCTGGCTGCTGCG
ACTCTAGGGTCTTTGCCTGGGATTAGTAGTACCATTATGGTCTGGGCATGCAATTA
TCCCAGGTGTCTGACCTCCTAACACAAGAGCAAGCAAACCTAACTCACCAGAAAAAGAAA
CTGGAGGGACAGATCTCAGCCCGCAACAAGCAGAAGAAGCTTCACAGGAGTCAGAAAAC
GAACTCAAGGAAATGATAGAAACCCTTGCTCGGAAGCTGAATGAGAAATCCAAAGAGCAA
ATGGAACCTCACCACCAGAATCTGAATCTCCAAGAAACACTGAAGAGAGTAGCAAATTGT
TCAGCTCCTTGTCGCAAGACTGGATCTGGCATGGAGAAAACCTGTTACCTATTTTCCTCG
GGCTCATTTAACTGGGAAAAGAGCCAAGAGAAGTGCTTGTCTTTGGATGCCAAGTTGCTG
AAAATTAATAGCACAGCTGATCTGGACTTCATCCAGCAAGCAATTTCTATTCCAGTTTT
CCATTCTGGATGGGGCTGTCTCGGAGGAACCCAGCTACCCATGGCTCTGGGAGGACGGT
TCTCCTTTGATGCCCCACTTATTTAGAGTCCGAGGCGCTGTCTCCAGACATACCCTTCA
GGTACCTGTGCATATATACAACGAGGAGCTGTTTATGCGGAAAACCTGCATTTTAGCTGCC
TTCAGTATATGTCAGAAGAAGGCAAACCTAAGAGCACAGTGA
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Clone variation with respect to NM_002543.3



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002543 unedited
 NGTTTCGGGATTTTGTAAATACGACTTACTATAGGCGGCCGCGNAATTCGCACGAGGCTGCT
 TCACTCTCTCATTCTTAGCTTGAATTTGGAAATGACTTTTGATGACCTAAAGATCCAGAC
 TGTGAAGGACCAGCTGATGAGAAGTCAAATGGGAAAAAAGCTAAAGGTCTTCAGTTTC
 TTTACTCTCCATGGTGGTGCCTGGCTGCTGCGACTCTAGGGTCTTTGCCTGGGATTAG
 TAGTGACCATTATGGTGTGGCATGCAATTATCCCAGGTGTCTGACCTCCTAACACAAG
 AGCAAGCAAACCTAACTACCAGAAAAAGAACTGGAGGGACAGATCTCAGCCCGGCAAC
 AAGCAGAAGAAGCTTACAGGAGTCAGAAAACGAACTCAAGGAAATGATAGAAACCCTTG
 CTCGGAAGCTGAATGAGAAATCCAAGAGCAAATGGAACCTCACCACCAGAATCTGAATC
 TCCAAGAAACACTGAAGAGAGTAGCAAATTGTTTCAGCTCCTTGTCCGCAAGACTGGATCT
 GGCATGGAGAAAACCTGTTACCTATTTTCTCGGGCTCATTTAACTGGGAAAAGAGCCAAG
 AGAAGTGCTTGTCTTGGATGCCAAGTTGCTGAAAATTAATAGCACAGCTGATCTGGACT
 TCATCCAGCAAGCAATTTCTATTCCAGTTTTCCATTCTGGATGGGGCTGTCTCGGAGGA
 ACCCCAGTACCCATGGCTCTGGGAGGACGGTTCTCTTTGATGCCCCACTTATTAGAGT
 CCGAGGCGCTGTCTNCCAAAATACCCTTCAGGTACCTGTGCATATATACAACGAGGAGC
 TGTTTATGCCGAAAACCTGCCATTTAGCTGCCTTCAGTATATGTCAGAAAGAGGCNANACC
 TAGNAGCCCAAGTGATTT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002543 unedited
 ACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTTTTTTTTTGGACCAATGTTCAACAACAGCTTTTTTTTGTAAATATCCCAAACTAA
 AACACCCCAATGCTCTCAACAAGTAAATGGGGAAAAGAATTGGGGTTTTCCCTACCAG
 GGAATATCAACATTTAAAAAATGAATTCCTTCCACCCTAAAAATGGGGACCTTTGAAT
 CTCAAAATAATTATGCCAAGGGAAAAAGCCCCACAAAAAACCCTTCTTTTTGAT
 TCCTTCCCTAAAACCTCCAATGCCAAATGAAAGCCCATGGGGGGTTTTGGGGGG
 AGTCTCAGGAGGAGCCTTGGGACCCTTGAGGGATGAAGGATATGTTCACTCTCTTAAT
 TGGAGGATGCATGTTCTCCACAAGGGGGAAAACCTTATCAAAATAGTACACTTTAAATATG
 TTCAGGTTATTTATGGTAATTATCTCAATAAAGCTTTTAAACAAAAGCAAACATTTTT
 TGCCTACATAAGGATGACACAACCTTAAAAAATTTTTCTGCTATATTGGGT
 GCACAAAATAAAAAGGGTTCCCTTAAAGTAAAAAACCCTGGAGAATGGGTGGAAAGG
 AATAAAAACCTAAAAATAAAAAAATTTCTAAATCCCTCTGGTTTTTATTAACCGAA
 TTTGCCTACCTGCCTCAATTTGTCTAAAAGGAGGGCCTCTTTTTTTTTGCCTGGAAGGT
 GCCGAATTTTACCTACCAACCAAGTTGAAAATCTTCTCCAAGGTGTTTTTTTAGG
 GAAAAATTTATTTTACCTTTGGGCCACATCCATGTTTTAACAAAATGTGGGAAGGGT
 AACCTTAAATGCCCTCGGAGAAAAAAGAG

Restriction Sites:

NotI-NotI

ACCN:

NM_002543

Insert Size:

2600 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_002543.2 , NP_002534.1
RefSeq Size:	2476 bp
RefSeq ORF:	822 bp
Locus ID:	4973
UniProt ID:	P78380
Cytogenetics:	12p13.2
Domains:	CLECT
Protein Families:	Druggable Genome, Secreted Protein, Transmembrane
Protein Pathways:	PPAR signaling pathway
Gene Summary:	<p>This gene encodes a low density lipoprotein receptor that belongs to the C-type lectin superfamily. This gene is regulated through the cyclic AMP signaling pathway. The encoded protein binds, internalizes and degrades oxidized low-density lipoprotein. This protein may be involved in the regulation of Fas-induced apoptosis. This protein may play a role as a scavenger receptor. Mutations of this gene have been associated with atherosclerosis, risk of myocardial infarction, and may modify the risk of Alzheimer's disease. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Feb 2010]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1).</p>