

## Product datasheet for **RG204704**

### LOX 1 (OLR1) (NM\_002543) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LOX 1 (OLR1) (NM_002543) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LOX 1
Synonyms:	CLEC8A; LOX1; LOXIN; SCARE1; SLOX1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG204704 representing NM_002543 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACTTTTGATGACCTAAAGATCCAGACTGTGAAGGACCAGCCTGATGAGAAGTCAAATGGAAAAAAG  
CTAAAGGTCTTCAGTTTCTTTACTCTCCATGGTGGTGCCTGGCTGCTGCGACTCTAGGGTCTTTGCCT  
GGGATTAGTAGTGACCATTATGGTGCTGGGCATGCAATTATCCCAGGTGTCTGACCTCTAACACAAGAG  
CAAGCAAACCTAACTCACCAGAAAAAGAACTGGAGGGACAGATCTCAGCCCGGCAACAAGCAGAAGAAG  
CTTCACAGGAGTCAGAAAACGAACTCAAGGAAATGATAGAAACCTTGCTCGGAAGCTGAATGAGAAATC  
CAAAGAGCAAATGGAATTCACCACCAGAATCTGAATCTCCAAGAACTGAAGAGAGTAGCAAATTTGT  
TCAGCTCCTTGTCGCAAGACTGGATCTGGCATGGAGAAAACCTGTACCTATTTTCTCGGGCTCATTTA  
ACTGGGAAAAGAGCCAAGAGAAGTGCTTGTCTTTGGATGCCAAGTTGCTGAAAATTAATAGCACAGCTGA  
TCTGGACTTCAATCCAGCAAGCAATTTCTATTCCAGTTTTCCATTCTGGATGGGGCTGTCTCGGAGGAAC  
CCCAGCTACCCATGGCTCTGGGAGGACGGTTCTCTTTGATGCCCACTTATTTAGAGTCCGAGGCGCTG  
TCTCCAGACATACCCTTCAGGTACCTGTGCATATATAACAACGAGGAGCTGTTTATGCGGAAAACCTGCAT  
TTAGTGCCTTCAGTATATGTCAGAAGAAGGCAAACCTAAGAGCACAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG204704 representing NM\_002543  
 Red=Cloning site Green=Tags(s)

MTFDDLLKIQTVKDQPDEKSNKKAKGLQFLYSPWWCLAAATLGVLCGLVVTIMVLGMQLSQVSDLLTQE  
 QANLTHQKKKLEGGQISARQAAEEASQSENELKEMIETLARKLNEKSKEQMEHHQNLNLQETLKRIVANC  
 SAPCPQDWIWHGENCYLFSGSGFNWEKSQEKCLSLDAKLLKINSTADLDFIQQAISYSSFFPFWMLSRRN  
 PSYPWLWEDGSPLMPHLFRVRGAVSQTYPSTGTCAYIQRGAVYAENCILAAFSICQKKANLRAQ

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_002543

**ORF Size:** 819 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\\_002543.4](#)

**RefSeq Size:** 2533 bp

**RefSeq ORF:** 822 bp

**Locus ID:** 4973

**UniProt ID:** [P78380](#)

**Cytogenetics:** 12p13.2

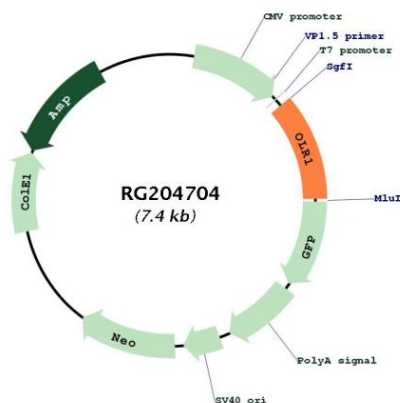
**Domains:** CLECT

**Protein Families:** Druggable Genome, Secreted Protein, Transmembrane

**Protein Pathways:** PPAR signaling pathway

**Gene Summary:** 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]

## Product images:



Circular map for RG204704