

Product datasheet for RG229657

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OriGene Technologies, Inc.

LOX 1 (OLR1) (NM_001172633) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: LOX 1 (OLR1) (NM_001172633) Human Tagged ORF Clone

Tag: TurboGFP

Symbol: OLR1

Synonyms: CLEC8A; LOX1; LOXIN; SCARE1; SLOX1

Mammalian Cell

Selection:

Neomycin

Vector: pCMV6-AC-GFP (PS100010)

E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide >RG229657 representing NM_001172633
Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

TCTGATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG229657 representing NM_001172633

Red=Cloning site Green=Tags(s)

MTFDDLKIQTVKDQPDEKSNGKKAKGLQFLYSPWWCLAAATLGVLCLGLVVTIMVLGMQLSQVSDLLTQE QANLTHQKKKLEGOISARQQAEEASQESENELKEMIETLARKLNEKSKEQMELHHQNLNLQETLKRVANC

SAPCPQDWIWHGENCYLFSSGSFNWEKSQEKCLSLDAKLLKINSTADLI

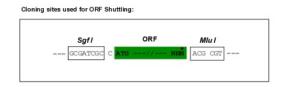
TRTRPLE - GFP Tag - V

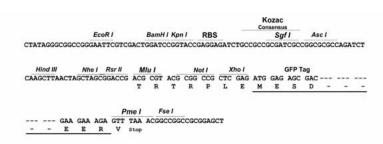
Restriction Sites: Sgfl-Mlul



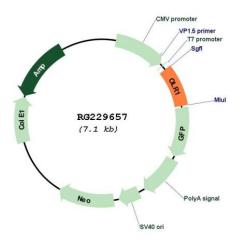


Cloning Scheme:





Plasmid Map:



ACCN: NM_001172633

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: <u>NM 001172633.1</u>, <u>NP 001166104.1</u>

 RefSeq Size:
 2417 bp

 RefSeq ORF:
 570 bp

 Locus ID:
 4973

 UniProt ID:
 P78380

 Cytogenetics:
 12p13.2

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]