

Product datasheet for **SC333223**

C18orf1 (LDLRAD4) (NM_001276251) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: C18orf1 (LDLRAD4) (NM_001276251) Human Untagged Clone
Tag: Tag Free
Symbol: C18orf1
Synonyms: C18orf1
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC333223 representing NM_001276251.
Blue=Insert sequence **Red**=Cloning site **Green**=Tag(s)

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ATGCGGTTGGACAGTCATCTTGAATGTATTTCAAGCACACAGGAAGGGTGCCTGTGGCCTTCAGACAGC
GCCGCACCGCGGCTGGGCGCCTCGGAGATCATGCATGCCCGCGGTCCAGGGACAGGTTACAGCGCCG
TCCTTCATCCAGAGGGATCGCTTCAGCCGCTTCCAGCCCACCTACCCCTATGTGCAGCAGAGATTGAT
CTTCTCCACCATCTCCCTGTCCGACGGTGAAGAGCCACCTCCTTACCAGGGGCCCTGCACCCTGCAG
CTCCGGGACCCTGAACAGCAGATGGAACCAACCGAGAGTCCGTGAGGGCCCCACCAACCGAACCATA
TTTGACAGTGATTTAATAGACATTGCTATGTATAGCGGGGTCCATGCCACCCAGCAGCAACTCGGGC
ATCAGTGCAAGCACCTGCAGCAGTAACGGGAGGATGGAGGGGCCACCCCCACATACAGCGAGGTGATG
GGCCACCACCCAGGCGCCTCTTTCTCCATCACCAGCGCAGCAACGCACACAGGGGCAGCAGACTGCAG
TTTCAGCAGAACAATGCAGAGAGACAATAGTACCCATCAAAGGCAAAGATAGGAAGCCTGGGAACCTG
GTCTGA
```

Restriction Sites: Sgfl-Mlul
ACCN: NM_001276251
Insert Size: 627 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).



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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_001276251.1](#)

RefSeq Size: 8682 bp

RefSeq ORF: 627 bp

Locus ID: 753

UniProt ID: [O15165](#)

Cytogenetics: 18p11.21

Protein Families: Druggable Genome, Transmembrane

MW: 23.1 kDa

Gene Summary: Functions as a negative regulator of TGF-beta signaling and thereby probably plays a role in cell proliferation, differentiation, apoptosis, motility, extracellular matrix production and immunosuppression. In the canonical TGF-beta pathway, ZFYVE9/SARA recruits the intracellular signal transducer and transcriptional modulators SMAD2 and SMAD3 to the TGF-beta receptor. Phosphorylated by the receptor, SMAD2 and SMAD3 then form a heteromeric complex with SMAD4 that translocates to the nucleus to regulate transcription. Through interaction with SMAD2 and SMAD3, LDLRAD4 may compete with ZFYVE9 and SMAD4 and prevent propagation of the intracellular signal.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (e1) contains an alternate 5' terminal exon, differs in its 5' UTR, lacks a portion of the 5' coding region, and initiates translation at an alternate start codon, compared to variant a1. The encoded isoform (epsilon 1) is shorter and has a distinct N-terminus, compared to isoform alpha 1. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.