

Product datasheet for **SC307283**

C18orf1 (LDLRAD4) (NM_181483) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C18orf1 (LDLRAD4) (NM_181483) Human Untagged Clone
Tag:	Tag Free
Symbol:	LDLRAD4
Synonyms:	C18orf1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC307283 representing NM_181483. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCAGCGGAGCTGGAGTTCGCCCAAATCATCATCATCGTCGTGGTGGTCACGGTGATGGTGGTGGTC
ATCGTCTGCCTGCTGAACCACTACAAAGTCTCCACGCGGTCTTCATCAACCGCCGAACAGAGCCGG
AGGCGGGAGGACGGGCTGCCGAGATCATGCATGCCCGCGGTCCAGGGACAGGTTACAGCGCCGTCC
TTCATCCAGAGGGATCGTTTCAGCCGCTCCAGCCACCTACCCCTATGTGCAGCAGGATTGATCTT
CCTCCCACCATCTCCCTGTCCGACGGTGAAGAGCCACCTCCTTACCAGGGGCCCTGCACCCTGCAGCTC
CGGGACCCTGAACAGCAGATGGAACCAACCGAGAGTCCGTGAGGGCCCCACCAACCGAACCATATTT
GACAGTGATTTAATAGACATTGCTATGTATAGCGGGGTCCATGCCACCCAGCAGCAACTCGGGCATC
AGTGCAAGCACCTGCAGCAGTAACGGGAGGATGGAGGGGCCACCCCCACATACAGCGAGGTGATGGGC
CACCACCCAGGCGCTCTTCTCCATCACCAGCGCAGCAACGCACACAGGGGCAGCAGACTGCAGTTT
CAGCAGAACAAATGCAGAGAGCACAATAGTACCCATCAAAGGCAAAGATAGGAAGCCTGGGAACCTGGTC
TGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	Sgfl-Mlul
Plasmid Map:	<input type="checkbox"/>
ACCN:	NM_181483
Insert Size:	693 bp



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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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<u>NM_181483.3</u>
RefSeq Size:	8032 bp
RefSeq ORF:	693 bp
Locus ID:	753
Cytogenetics:	18p11.21
Protein Families:	Druggable Genome, Transmembrane
MW:	25.8 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]