

Product datasheet for **RC222441**

C18orf1 (LDLRAD4) (NM_181481) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C18orf1 (LDLRAD4) (NM_181481) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	C18orf1
Synonyms:	C18orf1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC222441 representing NM_181481 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCGGAAGCTGGTTTTTCAGGCCACAAATGCTTTCACAGAGTGCAAATTCACCTGCACCAGTGGTAAAT
GCTTGTATCTGGTTCGCTGGTCTGTAACCAACAGAACGACTGTGGGACAACAGTGACGAAGAGAAGT
TCTCCTGGTGACCGAGCACCCGCTCCGGGCATCTTCACTCGGAGCTGGAGTTCGCCAAATCATCATC
ATCGTCGTGGTGGTCACGGTGATGGTGGTGGTTCATCGTCTGCCTGCTGAACCACTACAAAGTCTCCACGC
GGTCTTCATCAACCGCCGAACAGAGCCGGAGCGGGAGGACGGGCTGCCGAGGAAGGGTGCCTGTG
GCCTTCAGACAGCGCCGACCCGCGCTGGGCGCCTCGGAGATCATGCATGCCCGCGGTCCAGGGACAGG
TTCACAGCGCCGTCCCTTCATCCAGAGGGATCGCTTCAGCCGCTTCAGCCACCTACCCCTATGTGCAGC
ACGAGATTGATCTTCTCCACCATCTCCCTGTCCGACGGTGAAGAGCCACCTCCTTACCAGGGGCCCTG
CACCTGCAGCTCCGGGACCCCTGAACAGCAGATGGAACCAACCGAGAGTCCGTGAGGGCCCCACCCAAC
CGAACCATATTTGACAGTGATTTAATAGACATTGCTATGTATAGCGGGGTCCATGCCACCCAGCAGCA
ACTCGGGCATCAGTGCAAGCACCTGCAGCAGTAACGGGAGGATGGAGGGGCCACCCCCACATACAGCGA
GGTGATGGGCCACCAACCCAGGCGCCTCTTCTCCATCACCAGCGCAGCAACGCACACAGGGGCAGCAGA
CTGCAGTTTCAGCAGAACAATGCAGAGAGCACAATAGTACCCATCAAAGGCAAAGATAGGAAGCCTGGGA
ACCTGGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC222441 representing NM_181481
Red=Cloning site Green=Tags(s)

MPEAGFQATNAFTECKFTCTSGKCLYLGLSLVCNQNDGNSDEENCLLVTEHPPPGIFNSELEFAQIII
 IVVVVTVMVVVIVCLLNHYKVSTRSFINRPNQSRREDGLPQEGCLWPSDSAAPRLGASEIMHAPRSRDR
 FTAPSF IQRDRFSRFQPTYPYVQHEIDL PPTISLSDGEEPPPYQGPCTLQLRDPEQOMELNRESVRAPPN
 RTIFDSDLIDIAMYSGGPCPPSSNSGISASTCSSNGRMEGPPPTYSEVMGHHPGASFLHHQRSNAHRGSR
 LQFQQNNAESTIVPIK GKDRKPGNLV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8013_d11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_181481

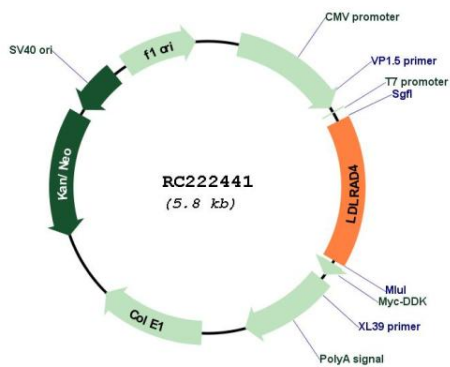
ORF Size: 918 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<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_181481.5
RefSeq Size:	8676 bp
RefSeq ORF:	921 bp
Locus ID:	753
UniProt ID:	O15165
Cytogenetics:	18p11.21
Protein Families:	Druggable Genome, Transmembrane
MW:	33.7 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]

Product images:



Circular map for RC222441