

Product datasheet for **RC213492**

C18orf1 (LDLRAD4) (NM_001003675) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C18orf1 (LDLRAD4) (NM_001003675) 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:	>RC213492 representing NM_001003675 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTCCAGTGACCACCTGAACAACAGCACACTGAAGGAGGCTCAGTTCAAAGACCTGTTCTTAAAAAAG
CGGAGCTGGAGTTCGCCAAATCATCATCATCGTCGTGGTGGTCACGGTGATGGTGGTGGTCATCGTCTG
CCTGCTGAACCACTACAAAGTCTCCACGCGGTCTTTCATCAACCGCCGAACAGAGCCGGAGCGGGAG
GACGGGCTGCCGAGATCATGCATGCCCGCGGTCCAGGGACAGGTTACAGCGCCGTCTTTCATCCAGA
GGGATCGCTTCAGCCGTTCCAGCCCACCTACCCCTATGTGCAGCAGAGATTGATCTTCTCCACCAT
CTCCCTGTCCGACGGTGAAGAGCCACCTCTTACCAGGGGCCCTGCACCTGCAGCTCCGGGACCCCTGAA
CAGCAGATGGAACCAACCGAGAGTCCGTGAGGGCCCCACCAACCGAACCATATTTGACAGTGATTTAA
TAGACATTGCTATGTATAGCGGGGGTCCATGCCACCCAGCAGCAACTCGGGCATCAGTGAAGCACCTG
CAGCAGTAACGGGAGGATGGAGGGGCCACCCCCACATACAGCGAGGTGATGGGCCACCACCCAGGCGCC
TCTTCTCCATCACCAGCGCAGCAACGCACACAGGGGCAGCAGACTGCAGTTTCAGCAGAACAATGCAG
AGAGCACAATAGTACCCATCAAAGGCAAAGATAGGAAGCCTGGGAACCTGGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC213492 representing NM_001003675
Red=Cloning site Green=Tags(s)

MSSDHLNNSLKEAQFKDLFLKKALEFAQIIIIVVVVVTVVVVIVCLLNHYKVSTRSFINRPNQSRRE
 DGLPQIMHAPRSRDRFTAPSF IQRDRFSRFQPTYVYVQHEIDLPTISLSDGEEPPPYQGPTLQLRDP
 QQMELNRESVRAPPNRTIFDSDLIDIAMYSGGPCPPSSNSGISASTCSSNGRMEGPPPTYSEVMGHHPGA
 SFLHHQRSNAHRGSRLQFQQNNAESTIVPIKGD RKP GNLV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001003675

ORF Size: 753 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_001003675.3](#)

RefSeq Size: 8892 bp

RefSeq ORF: 756 bp

Locus ID: 753

UniProt ID: [O15165](#)

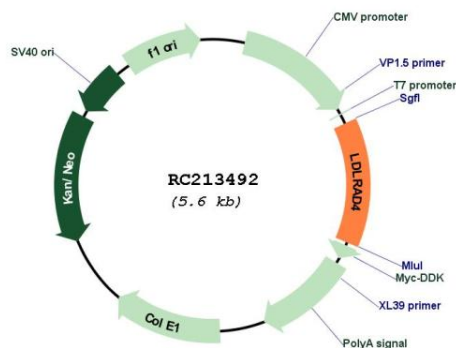
Cytogenetics: 18p11.21

Protein Families: Druggable Genome, Transmembrane

MW: 28.2 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 RC213492