

Product datasheet for **RC221534**

C18orf1 (LDLRAD4) (NM_001003674) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C18orf1 (LDLRAD4) (NM_001003674) 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:	>RC221534 representing NM_001003674 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTCCAGTGACCACCTGAACAACAGCACACTGAAGGAGGCTCAGTTCAAAGACCTGTTCTTAAAAAAG
CGGAGCTGGAGTTCGCCAAATCATCATCATCGTCGTGGTGGTCACGGTGATGGTGGTGGTCATCGTCTG
CCTGCTGAACCACTACAAAGTCTCCACGCGGTCTTCATCAACCGCCGAACAGAGCCGGAGCGGGAG
GACGGGCTGCCGAGGAAGGGTGCCTGTGGCTTCAGACAGCGCCGACCGCGGCTGGGCGCTCGGAGA
TCATGCATGCCCGCGGTCCAGGGACAGGTTACAGCGCCGTCTTCATCCAGAGGGATCGTTCAGCCG
CTTCCAGCCACCTACCCCTATGTGCAGCAGAGATTGATCTTCCCTCCACCATCTCCCTGTCCGACGGT
GAAGAGCCACCTCCTTACCAGGGGCCCTGCACCCTGCAGCTCCGGGACCCTGAACAGCAGATGGAATCA
ACCGAGAGTCCGTGAGGGCCCCACCAACCGAACCATATTTGACAGTGATTTAATAGACATTGCTATGTA
TAGCGGGGTCCATGCCACCCAGCAGCAACTCGGGCATCAGTGAAGCACCTGCAGCAGTAACGGGAGG
ATGGAGGGGCCACCCCAACATACAGCGAGGTGATGGGCCACCCAGGCGCCTTTTCTCCATCACC
AGCGCAGCAACGCACACAGGGGCAGCAGACTGCAGTTTCAGCAGAACAATGCAGAGACACAATAGTACC
CATCAAAGGCAAAGATAGGAAGCCTGGGAACCTGGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC221534 representing NM_001003674
 Red=Cloning site Green=Tags(s)

MSSDHLNNSLKEAQFKDLFLKKALEFAQIIIIVVVVTVMVVVIVCLLNHYKVSTRSFINRPNQSRRE
 DGLPQEGCLWPSDSAAPRLGASEIMHAPRSRDRFTAPSF IQDRFSRFQPTYVYQHEIDLPTISLSDG
 EEPPTYQGPCTLQLRDPEQQMELNRESVRAPPNRTIFDSLIDIAMYSGGFCPPSSNSGISASTCSSNGR
 MEGPPPTYSEVMGHHPGASFLHHQRSNAHRGSRLQFQQNNAESTIVPIK GKDRKPGNLV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8048_c12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001003674

ORF Size: 807 bp

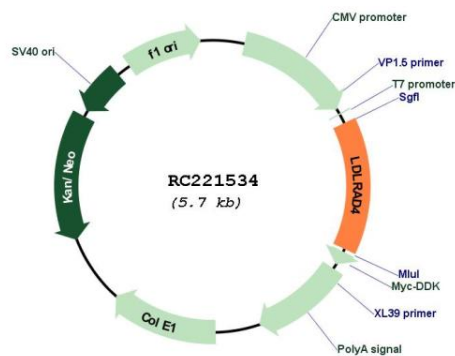
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

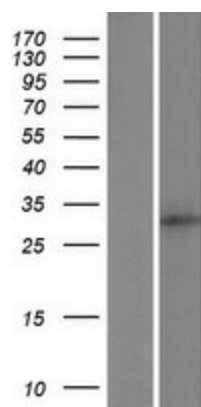
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:	<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_001003674.3 , NP_001003674.1
RefSeq Size:	8944 bp
RefSeq ORF:	810 bp
Locus ID:	753
UniProt ID:	O15165
Cytogenetics:	18p11.21
Protein Families:	Druggable Genome, Transmembrane
MW:	29.9 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 RC221534



Western blot validation of overexpression lysate (Cat# [LY424094]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC221534 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).