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Product datasheet for RG216410

C18orf1 (LDLRAD4) (NM_181482) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	C18orf1 (LDLRAD4) (NM_181482) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LDLRAD4
Synonyms:	C18orf1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>RG216410 representing NM_181482
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCGGAAGCTGGTTTTCAGGCCACAAATGCTTTCACAGAGTGCAAATTCACCTGCACCAGTGGTAAAT
GCTTGTATCTTGGTTCGCTGGTCTGTAACCAACAGAACGACTGTGGGGACAACAGTGACGAAGAGAACTG
TCTCCTGGTGACCGAGCACCCGCCTCCGGGCATCTTCAACTCGGAGCTGGAGTTCGCCCAAATCATCATC
ATCGTCGTGGTGGTCACGGTGATGGTGGTGGTCATCGTCTGCCTGCTGAACCACTACAAAGTCTCCACGC
GGTCCTTCATCAACCGCCCGAACCAGAGCCGGAGGCGGGAGGACGGGCTGCCGCAGATCATGCATGCCCC
GCGGTCCAGGGACAGGTTCACAGCGCCGTCCTTCATCCAGAGGGATCGCTTCAGCCGCTTCCAGCCCACC
TACCCCTATGTGCAGCACGAGATTGATCTTCCTCCCACCATCTCCCTGTCCGACGGTGAAGAGCCACCTC
CTTACCAGGGGCCCTGCACCCTGCAGCTCCGGGACCCTGAACAGCAGATGGAACTCAACCGAGAGTCCGT
GAGGGCCCCACCCAACCGAACCATATTTGACAGTGATTTAATAGACATTGCTATGTATAGCGGGGGTCCA
TGCCCACCCAGCAGCAACTCGGGCATCAGTGCAAGCACCTGCAGCAGTAACGGGAGGATGGAGGGGCCAC
CCCCCACATACAGCGAGGTGATGGGCCACCACCCAGGCGCCTCTTTCCTCCATCACCAGCGCAGCAACGC
ACACAGGGGCAGCAGACTGCAGTTTCAGCAGAACAATGCAGAGAGCACAATAGTACCCATCAAAGGCAAA
GATAGGAAGCCTGGGAACCTGGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

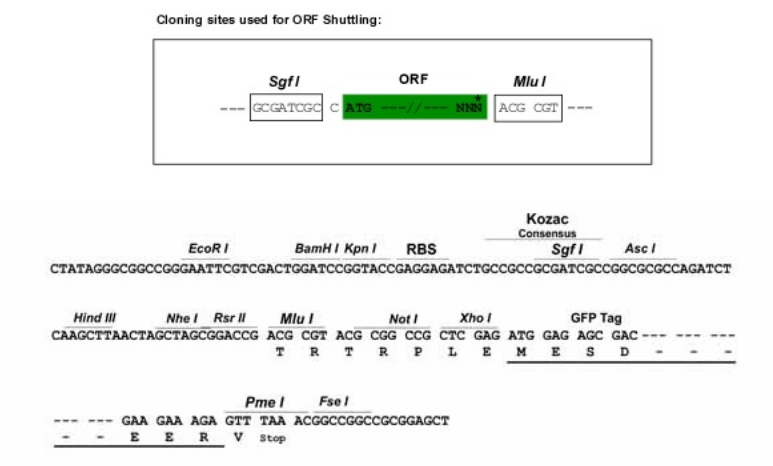
>RG216410 representing NM_181482
Red=Cloning site Green=Tags(s)

MPEAGFQATNAFTECKFTCTSGKCLYLGSLVCNQQNDCGDNSDEENCLLVTEHPPPGIFNSELEFAQIII
IVVVVTVMVVVIVCLLNHYKVSTRSFINRPNQSRRREDGLPQIMHAPRSRDRFTAPSFIQRDRFSRFQPT
YPYVQHEIDLPPTISLSDGEEPPPYQGPCTLQLRDPEQQMELNRESVRAPPNRTIFDSDLIDIAMYSGGP
CPPSSNSGISASTCSSNGRMEGPPPTYSEVMGHHPGASFLHHQRSNAHRGSRLQFQQNNAESTIVPIKGK
DRKPGNLV

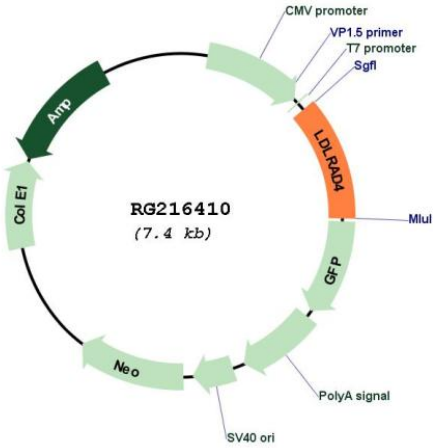
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_181482

ORF Size: 864 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_181482.5
RefSeq Size:	8617 bp
RefSeq ORF:	867 bp
Locus ID:	753
UniProt ID:	O15165
Cytogenetics:	18p11.21
Protein Families:	Druggable Genome, Transmembrane
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]