

Product datasheet for **RG233441**

C18orf1 (LDLRAD4) (NM_001276251) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: C18orf1 (LDLRAD4) (NM_001276251) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: C18orf1
Synonyms: C18orf1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG233441 representing NM_001276251
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCGGTTGGACAGTCATCTTGAATGTATTTCAAGCACACAGGAAGGGTGCCTGTGGCCTTCAGACAGCG
CCGCACCCGCGCTGGGCGCCTCGGAGATCATGCATGCCCCGCGGTCCAGGGACAGGTTACACAGCGCCGTC
CTTCATCCAGAGGGATCGCTTCAGCCGCTTCCAGCCCACCTACCCCTATGTGCAGCACGAGATTGATCTT
CCTCCCACCATCTCCCTGTCCGACGGTGAAGAGCCACCTCCTTACCAGGGGCCCTGCACCCTGCAGCTCC
GGGACCCTGAACAGCAGATGGAACCAACCGAGAGTCCGTGAGGGCCCCACCAACCGAACCATATTTGA
CAGTGATTTAATAGACATTGCTATGTATAGCGGGGTCCATGCCACCCAGCAGCAACTCGGGCATCAGT
GCAAGCACCTGCAGCAGTAACGGGAGGATGGAGGGGCCACCCCCACATACAGCGAGGTGATGGGCCACC
ACCCAGGCGCCTCTTTCCTCCATCACCAGCGCAGCAACGCACACAGGGGCAGCAGACTGCAGTTTCAGCA
GAACAATGCAGAGAGCACAATAGTACCCATCAAAGGCAAAGATAGGAAGCCTGGGAACCTGGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG233441 representing NM_001276251
Red=Cloning site Green=Tags(s)

MRLDSHLEICISSTQEGCLWPSDSAAPRLGASEIMHAPRSRDRFTAPSFQIRDRFSRFQPTYVYVQHEIDL
PPTISLSDGEEPYPYQGPCTLQLRDPEQQMELNRESVRAPPNRTIFDSDLIDIAMYSGGPCPPSSNSGIS
ASTCSSNGRMGPPPTYSEVMGHHHPGASFLHHQRSNAHRGSRLQFQQNNAESTIVPIKGDKDRKPGNLV

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI



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Cloning Scheme:


ACCN: NM_001276251

ORF Size: 624 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_001276251.1](#), [NP_001263180.1](#)

RefSeq Size: 8682 bp

RefSeq ORF: 627 bp

Locus ID: 753

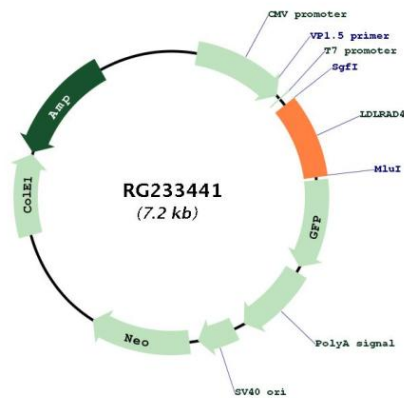
UniProt ID: [O15165](#)

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]

Product images:



Circular map for RG233441