

## Product datasheet for **RG221534**

### **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:** TurboGFP  
**Symbol:** LDLRAD4  
**Synonyms:** C18orf1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG221534 representing NM\_001003674  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCCAGTGACCACCTGAACAACAGCACACTGAAGGAGGCTCAGTTCAAAGACCTGTTCTTAAAAAAG  
CGGAGCTGGAGTTCGCCAAATCATCATCATCGTCGTGGTGGTCACGGTGATGGTGGTGGTCATCGTCTG  
CCTGCTGAACCACTACAAAGTCTCCACGGCTCCTTCATCAACCGCCGAACAGAGCCGGAGCCGGGAG  
GACGGGCTGCCGAGGAAGGGTGCCTGTGGCCTCAGACAGCGCCGACCGCGGCTGGGCGCCTCGGAGA  
TCATGCATGCCCGCGGTCCAGGGACAGGTTACAGCGCCGCTCCTTCATCCAGAGGGATCGTTCAGCCG  
CTTCCAGCCACCTACCCCTATGTGCAGCAGAGATTGATCTTCCCTCCACCATCTCCCTGTCCGACGGT  
GAAGAGCCACCTCCTTACCAGGGGCCCTGCACCCTGCAGCTCCGGGACCCTGAACAGCAGATGGAATCA  
ACCGAGAGTCCGTGAGGGCCCCACCAACCGAACCATAATTTGACAGTGATTTAATAGACATTGCTATGTA  
TAGCGGGGTCCATGCCACCCAGCAGCAACTCGGGCATCAGTGAAGCACCTGCAGCAGTAACGGGAGG  
ATGGAGGGGCCACCCCAACATACAGCGAGGTGATGGGCCACCCAGGCGCCTTTTCTCCATCACC  
AGCGCAGCAACGCACACAGGGGCAGCAGACTGCAGTTTCAGCAGAACAATGCAGAGACACAATAGTACC  
CATCAAAGGCAAAGATAGGAAGCCTGGGAACCTGGTC

**ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA**



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**Protein Sequence:** >RG221534 representing NM\_001003674  
Red=Cloning site Green=Tags(s)

MSSDHLNNSLKEAQFKDLFLKKALEFAQIIIIVVVVVTVVVVIVCLLNHYKVSTRSFINRPNQSRRE  
 DGLPQEGCLWPSDSAAPRLGASEIMHAPRSRDRFTAPSFIQDRFSRFQPTYVQHEIDLPTISLSDG  
 EEPPTYQGPCTLQLRDPEQQMELNRESVRAPPNRTIFDSLIDIAMYSGGFCPPSSNSGISASTCSSNGR  
 MEGPPPTYSEVMGHHPGASFLLHHQRSNAHRGSRLLQFQQNNAESTIVPIKGDKRKPGNLV

TRTRPLE - GFP Tag - V

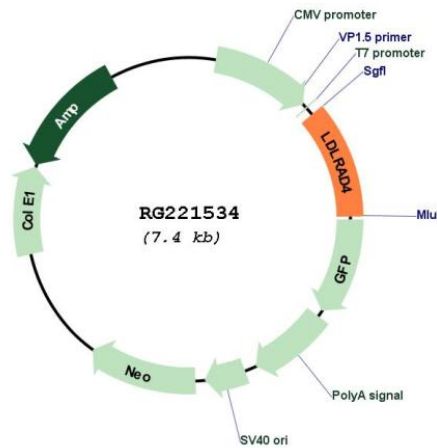
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



**Plasmid Map:**



**ACCN:** NM\_001003674

**ORF Size:** 807 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001003674.3</a> , <a href="#">NP_001003674.1</a>
<b>RefSeq Size:</b>	8944 bp
<b>RefSeq ORF:</b>	810 bp
<b>Locus ID:</b>	753
<b>UniProt ID:</b>	<a href="#">O15165</a>
<b>Cytogenetics:</b>	18p11.21
<b>Protein Families:</b>	Druggable Genome, Transmembrane
<b>Gene Summary:</b>	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]