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Product datasheet for MG204315

Ldlrad4 (NM_172631) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ldlrad4 (NM_172631) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ldlrad4
Synonyms:	8230401C20Rik; A430083H02; A430108L08Rik; C18orf1; D18Ertd653e; D330030L18Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG204315 representing NM_172631
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCCGGAAGCTGGTTTTCAGGCCACAAATGCGTTCACAGAGTGCAAATTCACCTGCACCAGCGGTAAAT
GCTTGTATCTTGGTTCTCTGGTCTGTAACCAACAGAACGACTGTGGGGACAACAGTGACGAAGAGAACTG
CCTCCTGGTGACCGAGCACCCACCGCCGGGCATCTTCAACTCCGAGCTGGAATTCGCGCAGATCCTTATC
ATTGTTGTGGTGGTGACGGTGATGGTGGTGGTCGTTGTCTGCCTACTGAACCACTACAAAGTCTCCACAC
GCTCCTTCATCAACCGCCCCAACCAGAGCCAGAGACAGGAGGACGGGCTGCAGCCGGAAGGATCCCTGTG
GCCTTCTGATAGCTCCGTGCAGCGCCCAGGGGCTTCAGAGATCATGTGTGCCCCACGGGGCAGGGATAGG
TTTACTACCCCATCTTTCATCCAGAGGGATCCATTCAGTCGTTTCCAGCCCACCTACCCCTATGTGCAGC
ACGAGATTGACTTGCCTCCCACCATCTCCCTGTCAGACGGGGAGGAGCCGCCTCCTTACCAAGGACCCTG
CACGCTACAGCTCCGGGACCCAGAGCAGCAGATGGAACTCAACCGAGAGTCCGTGAGGGCCCCGCCCAAT
CGAACCGTTTTTGACAGTGACTTGATAGACATTTCTATGTACAACGGGGGACCATGCCCACCAAGCAGCC
ACTCGGGCATCAGCGCAGCTACCTGTAGCAGTAACGGAAGAATGGAGGGGCCACCCCCGACCTACAGCGA
GGTGATGGGCCACTACCCAGGCACCTCGTTCTTCCATCACCAGCACAGCAACACACACAGGGGCAGCAGA
CCACAGTTTCAGCCGAACAACTCAGAGGGCACAATAGTACCCATCAAGGGCAAAGACAGGAAGCCGGGGG
ACCTGGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

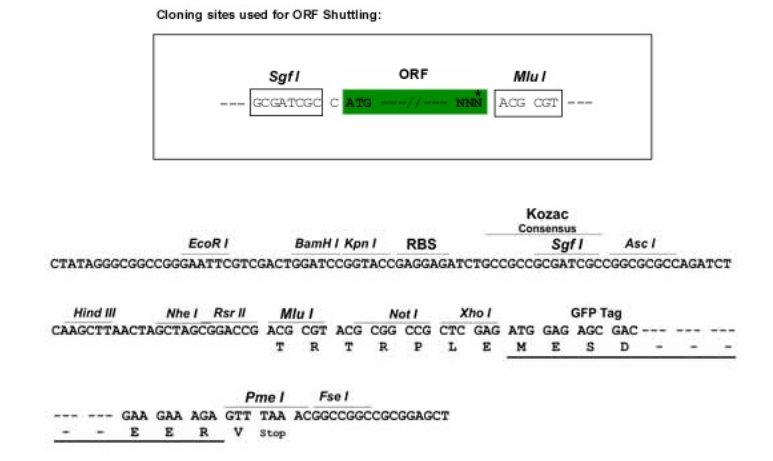
>MG204315 representing NM_172631
Red=Cloning site Green=Tags(s)

MPEAGFQATNAFTECKFTCTSGKCLYLGSLVCNQQNDCGDNSDEENCLLVTEHPPPGIFNSELEFAQILI
IVVVVTVMVVVVVCLLNHYKVSTRSFINRPNQSQRQEDGLQPEGSLWPSDSSVQRPGASEIMCAPRGRDR
FTTPSFIQRDPFSRFQPTYPYVQHEIDLPPTISLSDGEEPPPYQGPCTLQLRDPEQQMELNRESVRAPPN
RTVFDSDLIDISMYNGGPCPPSSHSGISAATCSSNGRMEGPPPTYSEVMGHYPGTSFFHHQHSNTHRGSR
PQFQPNNSEGTIVPIKGKDRKPGDLV

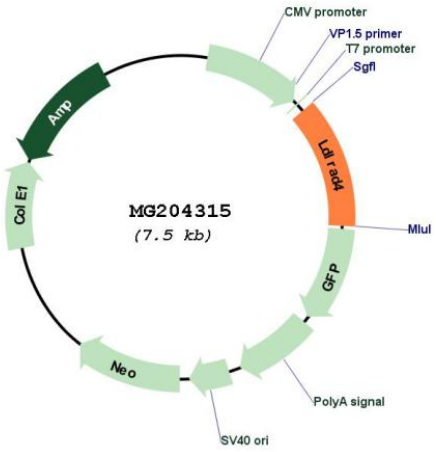
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_172631

ORF Size: 918 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_172631.4
RefSeq Size:	2494 bp
RefSeq ORF:	921 bp
Locus ID:	52662
UniProt ID:	Q8BWJ4
Cytogenetics:	18 40.14 cM
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]