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Product datasheet for RC218918

LRP6 (NM_002336) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LRP6 (NM_002336) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	LRP6
Synonyms:	ADCAD2; STHAG7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC218918 representing NM_002336
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGGGCCGTCCTGAGGAGCCTCCTGGCCTGCAGCTTCTGTGTGCTCCTGAGAGCGGCCCCTTTGTTGC
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Protein Sequence:

>RC218918 representing NM_002336
Red=Cloning site Green=Tags(s)

MGAVLRSLLACSFCVLLRAAPLLLYANRRDLRLVDATNGKENATIVVGGLEDAAAVDFVFSHGLIYWSDV
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DSS

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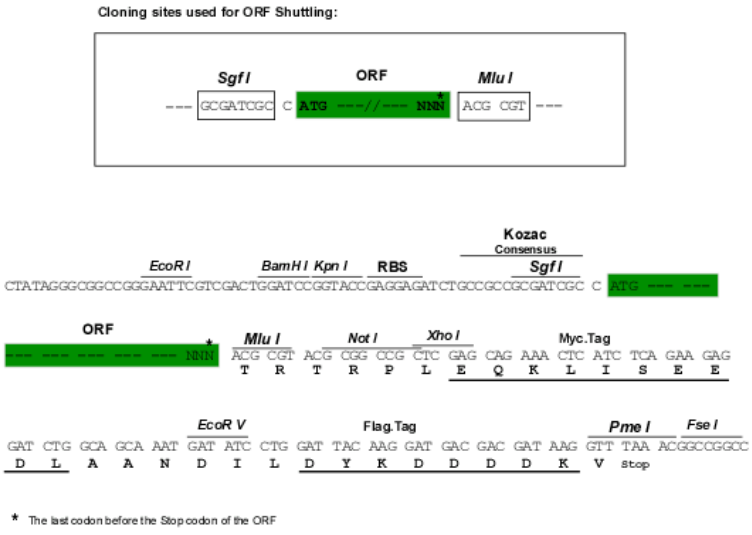
Chromatograms: https://cdn.origene.com/chromatograms/mk6259_h12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



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ACCN:	NM_002336
ORF Size:	4839 bp
OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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_002336.1, NP_002327.1
RefSeq Size:	5301 bp
RefSeq ORF:	4842 bp
Locus ID:	4040
UniProt ID:	O75581
Cytogenetics:	12p13.2
Domains:	ldl_recept_b, ldl_recept_a, EGF, EGF
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Wnt signaling pathway
MW:	180.44 kDa

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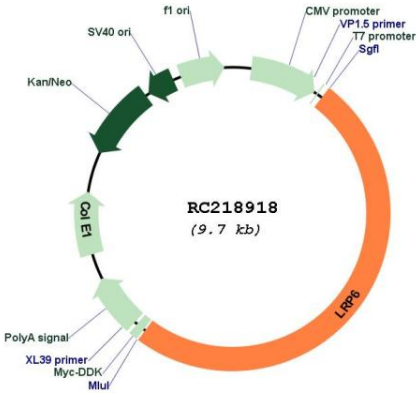
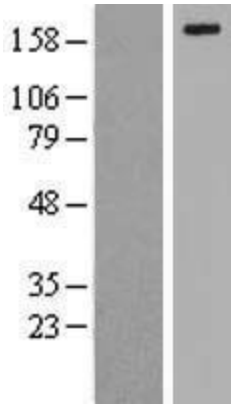
Gene Summary: This gene encodes a member of the low density lipoprotein (LDL) receptor gene family. LDL receptors are transmembrane cell surface proteins involved in receptor-mediated endocytosis of lipoprotein and protein ligands. The protein encoded by this gene functions as a receptor or, with Frizzled, a co-receptor for Wnt and thereby transmits the canonical Wnt/beta-catenin signaling cascade. Through its interaction with the Wnt/beta-catenin signaling cascade this gene plays a role in the regulation of cell differentiation, proliferation, and migration and the development of many cancer types. This protein undergoes gamma-secretase dependent RIP- (regulated intramembrane proteolysis) processing but the precise locations of the cleavage sites have not been determined.[provided by RefSeq, Dec 2009]

Product images:



Circular map for RC218918



Western blot validation of overexpression lysate (Cat# [LY419396]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218918 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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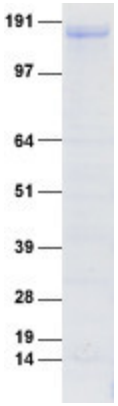

Coomassie blue staining of purified LRP6 protein (Cat# [TP318918]). The protein was produced from HEK293T cells transfected with LRP6 cDNA clone (Cat# RC218918) using MegaTran 2.0 (Cat# [TT210002]).

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