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Product datasheet for SC118678

LRP5 (NM_002335) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LRP5 (NM_002335) Human Untagged Clone
Tag:	Tag Free
Symbol:	LRP5
Synonyms:	BMND1; EVR1; EVR4; HBM; LR3; LRP-5; LRP-7; LRP7; OPPG; OPS; OPTA1; PCLD4; VBCH2
Mammalian Cell Selection:	None
Vector:	pCMV6-XL6
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC118678 sequence for NM_002335 edited (data generated by NextGen Sequencing)

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Clone variation with respect to NM_002335.2
1647 t=>c;1999 g=>a;2220 c=>t;3640 g=>c;3989 c=>t

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002335 unedited
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3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002335 unedited
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TTGATGAGGACAACTGGCCGCTCGACC

Restriction Sites: NotI-NotI

ACCN: NM_002335

Insert Size: 4700 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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_002335.1, NP_002326.1
RefSeq Size:	5100 bp
RefSeq ORF:	4848 bp
Locus ID:	4041
UniProt ID:	O75197
Cytogenetics:	11q13.2
Domains:	ldl_recept_b, ldl_recept_a, EGF, EGF
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Wnt signaling pathway
Gene Summary:	This gene encodes a transmembrane low-density lipoprotein receptor that binds and internalizes ligands in the process of receptor-mediated endocytosis. This protein also acts as a co-receptor with Frizzled protein family members for transducing signals by Wnt proteins and was originally cloned on the basis of its association with type 1 diabetes mellitus in humans. This protein plays a key role in skeletal homeostasis and many bone density related diseases are caused by mutations in this gene. Mutations in this gene also cause familial exudative vitreoretinopathy. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2014] Transcript Variant: This variant (1) encodes the longer isoform (1).