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Product datasheet for SC315373

LRP6 (NM_002336) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LRP6 (NM_002336) Human Untagged Clone
Tag:	Tag Free
Symbol:	LRP6
Synonyms:	ADCAD2; STHAG7
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for NM_002336 edited
CTGGGAAGTATGAGCGTGCAGCCCTGCCGCTGCGGCGGCCGCCCCGGCTCCTCGCCTCCC
CCACTTCTGGCCACCCCTCGCCGGTGAGAGAAGAGAACGCGAGAAGGGAAGATGGGGGCC
GTCCTGAGGAGCCTCCTGGCCTGCAGCTTCTGTGTGCTCCTGAGAGCGGCCCCTTTGTTG
CTTTATGCAAACAGACGGGACTTGCGATTGGTTGATGCTACAAATGGCAAAGAGAATGCT
ACGATTGTAGTTGGAGGCTTGGAGGATGCAGCTGCGGTGGACTTTGTGTTTAGTCATGGC
TTGATATACTGGAGTGATGTCAGCGAAGAAGCCATTAAACGAACAGAATTTAACAAAACT
GAGAGTGTGCAGAATGTTGTTGTTTCTGGATTATTGTCCCCCGATGGGCTGGCATGTGAT
TGGCTTGGAGAAAAATTGTACTGGACAGATTCTGAAACTAATCGGATTGAAGTTTCTAAT
TTAGATGGATCTTTACGAAAAGTTTTATTTTGGCAAGAGTTGGATCAACCCAGAGCTATT
GCCTTAGATCCTTCAAGTGGGTTCATGTACTGGACAGACTGGGGAGAAGTGCCAAAGATA
GAACGTGCTGGAATGGATGGTTCAAGTCGCTTCATTATAATAAACAGTGAAATTTACTGG
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GCCATAGATTACGATCCTGTGGAAGGCTACATCTACTGGACTGATGATGAAGTGAGGGCC
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CATCCTGATGGTATTGCTGTGGACTGGGTTGCACGAAATCTTTATTGGACAGACACTGGC
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GACTTAGAGGAACCCCGGGCTATTGTGTTAGATCCCATGGTTGGGTACATGTATTGGACT
GACTGGGGAGAAATTCCGAAAATTGAGCGAGCAGCTCTGGATGGTTCTGACCGTGTAGTA

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TTGGTTAACACTTCTCTTGGTTGGCCAAATGGTTTAGCCTTGGATTATGATGAAGGCAAA
ATATACTGGGGAGATGCCAAAACAGACAAGATTGAGGTTATGAATACTGATGGCACTGGG
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TATTCTTCAAACAGTCCTTCCACTCATAGGTCATACAGCTACAGGCCATATAGCTACCGG

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CACTTTGCACCCCCCACCACACCCTGCAGCACAGATGTTTGTGACAGTGACTATGCTCCT
AGTCGGAGAATGACCTCAGTGGCAACAGCCAAGGGCTATACCAGTGACTTGAACTATGAT
TCAGAACCTGTGCCCCCACCTCCCACACCCCGAAGCCAATACTTGTCAGCAGAGGAGAAC
TATGAAAGCTGCCCACCTTCTCCATACACAGAGAGGAGCTATTCTCATCACCTCTACCCA
CCGCCACCCTCTCCCTGTACAGACTCCTCCTGAGGAGGGGCCCTCCTCCTCTGACTGCCT
CCAACGTAAAAATGTAAATATAAATTTGGTTGAGATCTGGAGGGGGGGAGGGAGCTATTA
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TGTGCCATAAAAGTTTGTATAAAAAAAATTTGTACTAAAAGTTTTATTTTTGCAAACTAA
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AAAAAA

5' Read Nucleotide Sequence:

>Reverse primer walk for NM_002336 unedited
GCCTAGTTCATAAACTTTTCTAAACTCCTCTAATTAGAAACTTCATCCGATTAGTTTCAG
AATCTGTCCAGTACAATTTTTCTCCAAGCCAATCACATGCCAGCCCATCGGGGGACAATA
ATCCAGAAACAACAACATTCTGCACACTCTCAGTTTTGTTAAATTCTGTTCGTTTAATGG
CTTCTTCGCTGACATCACTCCAGTATATCAAGCCATGACTAAACACAAAGTCCACCGCAG
CTGCATCCTCCAAGCCTCCAACTACAATCGTAGCATTCTCTTTGCCATTTGTAGCATCAA
CCAATCGCAAGTCCCGTCTGTTTGCATAAAGCAACAAAGGGGCCGCTCTCAGGAGCACAC
AGAAGCTGCAGGCCAGGAGGCTCCTCAGGACGGCCCCCATCTTCCCTTCTCGCGTTCTCT
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AGCGGCAGGGCTGCACGCTCATACTTCCCAGCCTCGTGCCGAATTCGCGGCCGCCCTATA
GTGAGTCGTATTACANAATTCTGACGGTTCACTAAACGAGCTCTGCTTATATAGACCTCC
CACCGTACACGCCTACCGCCCATTTGCGTCAACGGGGCGGGGTTATTACGACATTTTGGA
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AAATCCCCGTGAGTCAAACCGCTATCCACGCCCATTGGTGTACTGCCAAAACCGCATCAC
CATGGTAATAGCGATGACTAATACGTAGATGTACTGCCCAGTAAGAAAGTCCCGTAAGGT
CATGTACTGGGCATAATGCCAGGCGGGCCATTTACCGTCTTTGACGTAAC

3' Read Nucleotide Sequence:

>Reverse primer walk for NM_002336 unedited
GGATCTATTACTTTTTACCTGGTAGCATCANAGNAGGAGGCCCCTCCTCAGNAGAGTCTG
TACAGGGAGAGGGTGGCGGTGGGTAGAGGTGATGAGAATAGCTCCTCTCTGTGTATGGAG
AAGGTGGGCAGCTTTCATAGTTCTCCTCTGCTGACAAGTATTGGCTTCGGGGTGTGGGAG
GTGGGGGCACAGGTTCTGAATCATAGTTCAAGTCACTGGTATAGCCCTTGGCTGTTGCCA
CTGAGGTCATTCTCCGACTAGGAGCATAGTCACTGTCACAAACATCTGTGCTGCAGGGTG
TGGTGGGGGGTGCAAAGTGCCGGTAGCTATATGGCCTGTAGCTGTATGACCTATGAGTGG
AAGGACTGTTTGAAGAATATCCAAATTCCATAGTGTAATGTGATCGCTCTGTGGCTGGGG
ATGGTGGAGGGTTCAAAATTGCAGGGAAGTAAGTGCCTTTGGTGCTTGAAGAACTACTTG
ATGATGCTCCTGTAACATGGGCTCGGTCATAGGGGGGTCCACTGCTTCCCCCCATGATAC
TGAGGGAGCTGATCATTGATTTACCTCGAGACATTCCTGGAAGAGATCCTGACAAAGAAC
TTGNGTGTGGCACATAACCAAGAGGCACAGAAGCTGGTCCATGAACTACATAGTCATTAG
TCATAGTTTCCCCCTCTCCCTTCATACGTGGACACAACATCCTCTGNCAGATAAAGTATA
CAGTTCCAGACCCAAAAATGGTGACAATTACGCCAATACCGAACCAACTGTATTGGTGGC
CTGTGGTGCTTGGTTCTCCATCGGAAAACATCCCATTCAATCTGCCTGTCCCTGCAATCC
CCTTAAGATCCCCCTCCTGGGGCTTTCCATGCCCCTGCCATTGGCACCACGG

Restriction Sites: Please inquire

ACCN: NM_002336

Insert Size: 5300 bp

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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:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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

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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]

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