

Product datasheet for **SC103652**

LRP6 (AK094666) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LRP6 (AK094666) Human Untagged Clone
Tag:	Tag Free
Symbol:	LRP6
Synonyms:	ADCAD2; STHAG7
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for AK094666, the custom clone sequence may differ by one or more nucleotides

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TTTAATGAGAGAATTGTCAAATTTGGAAGATTTATTGAGCCTTAGGTTACATGGACAGTTAAGCTTAAG
TAAACTGTATATTGATTATCAAACACAAGCTGTAATTGGAAAAGTTGAGAGGAAAAGCATGAGATCACAA
ATTAGGGGGAAAAAAGAAAAGGGATTTTTAAATTTGGTGTATTAATTCATTGTCCAAGGGGAAAAATGA
ATAATGTTTCATTAGATTCCTTATATGCAAAAAGTATTTATTTTGAACATGTGCCTAAAAATATATGCACT
AACTGATGTGATTAATAATTGTCCAAGAAAATAAACTTGAGCATAACATACTTTGTGTGCACCACAGTAAGC
TATTCTGCATTGAAGTGGTCTTTTATACTAAGGCCTGGACTTTGCTCCAACAGAGTCGTGGTCTTCTGA
ATAGTGACTTAAGGAGTTTTGTTGCTTAAGTCAGATAATAGCACATTCACAGGGAAACAAGAGAGTTG
GTGGATAGAATTTCTGACTATTAATTTTTCTCCATGAAATTTTATTATGCCTTTGGCACTTTCTGCCA
CTCTTACAGCATATCACAAGATATCTGTTTAGCAGAAGATTATGTAGTACTTTAATTTTAAATAAAAAG
TAGCTTGTGATACATTACCAAGAGATCTCTGATCTTTAGTAAGTTTGAGAACACCTATTCTACAGAGAT
GATAGGTAAGTACTTAGAAATGAAGACTTTAAAGTACATTTTAACTAATATAGCCAGTAATTGGGGGAAGGG
GCTTTGAGCAGTACAATTTAAGATGATTTTGGGGTTGTATTTCTTTATCATTTAAAAATATCCTAAAG
TCAGTAATTTATATGAAGGAAACTCATTCAATTATTGAAGGTATTAATAATAGCCATCATCTGTATTAGGT
AGCAGTTTTGGAGGATCATCTTTTTCTTTTGTCTATAAAGCCCTATTAAATGAAGAATACTTCCAGTAGAGT
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ATAGAGACTGAAGAGGTATGCGTTAAGCACGCCTACTTCTATGCAGTAAACAGGCTGCAGCTGCCTAGAT
TAGATCTTAGAAATGCATATTTTGAATTGTTTTATTTCTTGTAGGGGAAGCTTTGTCCCACTTCATTC
ATTTGCATGCCATAGGAATTACATATTTGGTTATCATTACGTATCTAACAAGATTCAGAAAACAAAAATCTT
GGACTTTTCACATCCGAAATATGTCAGCTCTTAATAAATGTGTGGTCTTAAGTCTACATATGGCATCCA
TAGTTGATCTAGAGTATGGATATGAGTGTGTGACCAGTTATCAGTAGGTGGACAAATATTTGGGCATCT
ACAGATGAGACTATGCACTAAGTGTGGACTGAGTCTAAAGAAGCTTATAGTCAGGTGTTGTTTTAAACA
TTATCAGAATCTTAAACCCAAGGAATTTAATTTTATTTGGTATTTCTTAAAGCCTAAAAATGAACCAAGAG
AAAGATGATTTTAGAAAGTACTTGTAGTGAAGATGATTTTAGAAAGTACTTGTAGTGCATGTGTGGCTT
CTGACTTTTGGGATGGCACCATTTTATAATAGTTTCAAATTTAGCTTTTGAAATTTCAACATTTTATG
GTAGAAGACTTTGGACCTCAAGTATAAAATTATACGTTTATAATTTTTTAAAAATTTAAATTATAAGTAT
TGTGAATTCACACTCTCAGGCTATTGTCTGACTTGATCTACGTCTCATAAAGCCTGTACCTGAGTGGAGT
GGAAGGTGGAGTCTTAGGTTAATCAGTTACTGACTCTACCCTCACCTCTTTCAATTGAGGTAAACTTTG
CTGTTTTCTTTTTCATAAAGCATTCTCAAATTTGAGTTTATTGCTGAAAAAATCTCCATGACTTTA
CAGATAGAATTACAACTAAATGATGTCTTGATTTTGAAGCAGAGTACAGACCTAACGAACTGTTAGAT
TCTCCACCATCACTTAGGGTTTGGCCAGAAGCAACACCAGAGAATTACAGACAACGCGCTTTTGTGGAAC
TGTCCATTTTGGTGGTTGTGTTTTTTCAGTCAAATAAAGCAGGATGGGCGATAGAGATATATTTATATAT
AGATACATATTCTATATCTAATGCCTAAATATGGGTATTAAGGGAAAAATTTTAAAGTCTGATTAATA
TCCAATATGACATGAAATTAATATATGGATTAGTAAGGAAAAATGTTAAAAAGTAGAGAGGATACCAAG
AAGATTAAGTGGACTAGCCTTATTTGCAAGTGAAGGATCTGGTGTCTTTTTCAGATGTTTATCTTTTTAT
TTTTTCCCTTAAGCTTTAATCTTCGTCTTGTCTTAAAGTCAACTGGTGTCTTTCTTGTTCATTGACTTTG
GTACGATGGTGTCTTGAAGGATGATTTATGTTATAAATGGCCAACATTTGGTCAGCCCTTGTCCACTTA
TTCACTCCCTCTTTTGTAAAATAAGTCTTTAATTATAAACTGTATAAAAAATACCTTGTATAACCCC
TTTTTTGATTATTACAATAAATAAGCTGAATTGTAACAAATGAAATTTGATTTTTGTAATAAAACAGTGG
AAAAGT
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for AK094666 unedited</p> <pre>TCACCAATATGTAATACGACTTCACTATAGGGCGGCCGGAATTCGCACGAGGCTCTTCT TCAAAATACTAATTTGTGTGCCAATTTGTTTAAAATTATTTGAAGGCAGTTCAGCCTAAT CTCAGTGTCTCTTTCTGGGGTAGATGAGATGGATTCTTAATATTTCTGGGAGTACTTTT TAATGAGAGAATTGTCAAATTTGGAAAGATTTATTGAGCCTTAGGTTACATGGACAGTTA AGCTTAAAGTAACTGTATATTGATTATCAAACACAAGCTGTAATTGAAAAAGTTGAGAGG AAAAGCATGAGATCACAATTAGGGGAAAAAAGAAAAAGGATTTTAAATTTGGTGTAT TAAATTCATTGTCCAAGGGGAAAAATGAATAATGTTTCATTAGATTCTTATATGCAAAA GTATTTATTTTGAACATGTGTCCTAAAATATATGCACTAACTGATGTGATTAAAAATTGTC CAAGAAATAAACTTGAGCATAACATACTTTGTGTGCACCACAGTAAGCTATTCTGCATTG AAGTGGTCTTTTATACTAAGGCCTGTACTTTGCTCCAACAGAGTCGTGGTCTTCTGAAT AGTGACTTAAAGAGTTTTGTTTGTCTTAGTCAGCATATAGCACATTCACAGGGAAACAAA GAGAGTTGTTGGATAGAATTTCTGACTATTTATTTTCTCCATGAAATTTTATTATGC CTTTTGGCACTTTCTGCCACTTACAGCATATACAAGATATCTGTTTACCACAGATTA TGTAGGTACTTTAATTTTATTCTAAAGTAGCTTGGATTACATCCAGAGGACTCTGATT TTTTAGTACGTTGAAACCCCTATTCTACAAAAAGATTGGTCCTAAAACCTGGAGACTTTA AAGTCACTTTATTTATTTAGCCCCTATTTGGGGAAGGGCTTTGCCCCACATTTAAAAA ATTTGAGGTTGTT</pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for AK094666 unedited</p> <pre>ACTATGNAACCGCGCCGAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTT TTACTTTTCCACTGTTTTATTACAAAAATCAAATTTCAATTTGTTACAATTCAGCTTATTT ATTGTAATAATCAAAAAAGGGGTTTATACAAGGTATTTTATACAGTTTATAATTAAGC ACTTATTTTACAAAAGGAGGGAAGTGAATAAGTGGACAAGGGCTGACCAAATGTTGGCCA TTATAACATAAATACATCCTTGCAAAGCACCATCGTACCAAAGTCAATGAACAAGAAACA CCAGTTGACTTTAAGACAATGACGAAGATTAAGCTTAAGGGAAAAAATAAAAGATAAA CATCTGAAAGCAGCACCAGATCCTTCACTTGCAAATAAGGCTAGTCCAGTTAATCTTCT TGGTATCCTCTACTTTTTAACATTTTTCCTTACTAATCCATATATTTAATTTTCATGTC ATATTGGATTTAATCAGACTTTAAAAATTTCCCTTTAATACCCATATTTAGGCATTAGA TATATAGAATATGTATCTATATATAAATATATCTCTATCGCCCATCCTGCTTATATTTGA CTGAAAAACACAAACCACAAAATGGACAGTTTACGCAAAAAGCGCGTTGTCTGTAATTTCT GGTGTGCTTCTGGGCAACCCTAAGTGTGGTGGAGAATCTAACAGTTCGTTAGGTCTG TACTCTGCTTCTAAAACCAGAATCATTTAGTTTGAATCTATCTGTAAGTCATGGAGAT TTTTTTCAGCATAAACTCAACAATTTGAGGATGTTTATGAAAAAGAAAAACAGCAAGTTT ACCTCATTGAAAGAGGTGNAGGGAGAGACAGTACTGATTAACCTAAACTCCCCTTCACT CCCTCAGGTACAGGCTTTTGGACGTAATCAAGTCGACATAGCCTGGGG</pre>
Restriction Sites:	NotI-NotI
ACCN:	AK094666
Insert Size:	2700 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: [AK094666.1](#)

RefSeq Size: 2666 bp

RefSeq ORF: 2666 bp

Locus ID: 4040

Cytogenetics: 12p13.2

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Wnt signaling pathway

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]