

Product datasheet for **TP318864**

LRP5 (NM_002335) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Homo sapiens low density lipoprotein receptor-related protein 5 (LRP5), 20 µg
Species:	Human
Expression Host:	HEK293T



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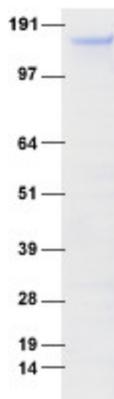
Expression cDNA Clone or AA Sequence: >RC218864 representing NM_002335
Red=Cloning site Green=Tags(s)

MEAAPPGPPWPLLLLLLLLLLALCGCPAPAAASPLLLFANRRDVRLVDAGGVKLESTIVVSGLEDAAVDF
 QFSKGAVYWTDVSEEAIKQTYLNQTGAAVQNVIISGLVSPDGLACDWWGKKLYWTDSETNRIEVANLNGT
 SRKVLFWQDLDPRAIALDPAHGYMYWTDWGETPRIERAGMDGSTRKIIVDSDIYWPNGLTIDLEEQKLY
 WADAKLSFIHRANLDGSRQKVVESLTHPFALTLSGDTLYWTDWQTRSIHACNKRRTGGKRKEILSALYS
 PMDIQVLSQERQPFHTRCEEDNGGCSHLCLLSPSEPFYTCACPTGVQLQDNGRTCKAGAEVLLLARRT
 DLRRISLDPDFDIDLQVDDIRHAIIDYDPLEGYVYWTDDDEVRAIRRAYLDGSGAQTLVNTEINDPDG
 IAVDWVARNLYWTDGTDRIEVTRLNGTSRKILVSEDLDEPRAIALHPVMGLMYWTDWGENPKIECANLD
 GQERRVLVNASLGWPNGLALDLQEGKLYWGDADTKIEVINVDGTKRRTLLEDKLPHFIFGFTLLGDFIYW
 TDWQRRSIERVHKVKSARDVIDQLPDLMLGLKAVNVAKVWGTNPCADRNGGCSHLCCFTPHATRCGPIG
 LELLSDMKTCIVPEAFVFTSRAAIHRISLETNNNDVAIPLTGVKEASALDFDVSNNHIYWTDVSLKTIS
 RAFMNGSSVEHVVEFGLDYPEGMAVDWMGKNLYWADTGTNRIEVARLDGQFRQVLVWRDLNPRSLA
 LDP
 TKGYYWTEWGGKPRIVRAFMDGTNCMTLVDKVGRANDLTIDYADQRLYWTDLDTNMIESSNMLGQER
 VV
 IADDLPHPFGLTQYSDIYWTDWNLHSIERADKTSGRNRTLIQGHLDVMDILVFHSSRQDGLNDCMHN
 N
 GQCQQLCLAIPGGHRCGCASHYTLDPSSRNCSPPTTFLFSQKSAISRMIPDDQHSPDLILPLHGLRNVK
 AIDYDPLDKFIYWDGRQNIKRAKDDGTQPFVLTSLSQGNPDRQPHDLSIDIYSRTLFWTCEATNTINV
 HRLSGEAMGVLRGDRDKPRAIVNAERGYLYFTNMQDRAAKIERAALDGTREVLFTTGLIRPVALVD
 NTLGKLFWVDADLKRIESCDLSGANRLTLEDANIVQPLGLTILGKHLWIDRQQMIERVEKTTGDKRTR
 IQGRVAHLTGIAHAVEEVSLEEFSAHPCARDNGGCSHCIAKGDGTPRCSCPVHLVLLQNLCTCGEPPTCS
 PDQFACATGEIDCIPGAWRCDFPECCDDQSDEEGCPVCSAAQFPCARGQCVDLRLRCDGEADCQDRSDE
 V
 DCDAICLPNQFRCASGQCVLKQCDSPDCIDGSDELMEITKPPSDDSPAHSSAIGPVIGIILSLFVM
 GGVFVCQRVVCQRYAGANGPFPHEVYSGTPHVPLNFIAPGGSQHGPFTGIACGKSMMSVSLMGGRG
 GV
 PLYDRNHVTGASSSSSSSTKATLYPPILNPPSPATDPSLYNMDMFYSSNIPATARPYRPIIRGMAPPT
 TPCSTDVCDSDYSASRWKASKYYLDLNSDSDPYPPPPTPHSQYLSAEDSCPPSPATERSYFHLFPPPPSP
 CTDSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK
Predicted MW: 179 kDa
Concentration: >0.05 µg/µL as determined by microplate BCA method
Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_002326
Locus ID:	4041
UniProt ID:	O75197
RefSeq Size:	5100
Cytogenetics:	11q13.2
RefSeq ORF:	4845
Synonyms:	BMND1; EVR1; EVR4; HBM; LR3; LRP-5; LRP-7; LRP7; OPPG; OPS; OPTA1; PCLD4; VBCH2
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]
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Wnt signaling pathway

Product images:

Coomassie blue staining of purified LRP5 protein (Cat# TP318864). The protein was produced from HEK293T cells transfected with LRP5 cDNA clone (Cat# [RC218864]) using MegaTran 2.0 (Cat# [TT210002]).