

Product datasheet for **TP512054**

Lrp5 (NM_008513) Mouse Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Mouse low density lipoprotein receptor-related protein 5 (Lrp5), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T



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Expression cDNA >MR212054 representing NM_008513
 Clone or AA Sequence: **Red**=Cloning site **Green**=Tags(s)

METAPTRAPPPPPPLLLLVLVYCSLVPAASPLLLFANRRDVRLVDAGGVKLESTIVASGLEDAAAVDFQ
 FSKGAVYWTDVSEEAIKQTYLNQTGAAAQNVISGLVSPDGLACDWVGKLYWTDSETNRIEVANLNGTS
 RKVLFWQDLDPRAIALDPAHGYMYWTDWGEAPRIERAGMDGSTRKIIVSDIYWPNGLTIDLEEQLYW
 ADAKLSFIHRANLDGSRQKVEGSLTHPFALTLSGDTLYWTDWQTRSIHACNKWTGEQRKEILSALYSP
 MDIQVLSQERQPPFHTPCEEDNGGCSHLCLLSPREPFYSCACPTGVQLQDNGKTKCTGAEEVLLARRTD
 LRRISLDTPDFTDIVLQVGDIRHAIADYDPLEGYVYWTDDEVRAIRRAYLDGSGAQLTVNTEINDPDGI
 AVDWARNLYWTDGTDRIEVTRLNGTSRKILVSEDLDEPRAIVLHPVMGLMYWTDWGENPKIECANLDG
 RDRHVLVNTSLGWPNGLALDLQEGKLYWGDAKTDKIEVINIDGTRKRTLLEDKLPHFIFGFTLLGDFIYWT
 DWQRRSIERVHKVKASRDVIIDQLPDLMLKAVNNAKVVGTNPCADGNGGCSHLCCFFTPRATKCGCPIGL
 ELLSDMKTCIPEAFVFTSRATIHRSLETNNNDVAIPLTGVKEASALDFDVSNNHIYWTDVSLKTISR
 AFMNGSSVEHVIEFGLDYPEGMAVDWMGKNLYWADTGTNRIEVARLDGQFRQVLVWRDLNPRSLALDPT
 KGYIYWTEWGGKPRIVRAFMDGTNCMTLVDKVGRANDLTIDYADQRLYWTDLDTNMIESSNMLGQERMVI
 ADDLPYPFGLTQYSDIYWTDWNLHSIERADKTSGRNRTLIQGHLDVMDILVFHSSRDGLNDCVHSNG
 QCGQLCLAIPGGHRCGCASHYTLDPSSRNCSPSTFLLFSQKFAISRMIPDDQLSPDLVPLHGLRNVKA
 INYDPLDKFIYVWDGRQNIKRAKDDGTQPSMLTSPSQSLSPDRQPHDLSIDIYSRTLFWTCEATNTINVH
 RLDGDAMGVVLRGDRDKPRAIAVNAERGYMYFTNMQDHAAKIERASLDGTEREVLFITGLIRPVALVVDN
 ALGKLFVWDADLKRIESCDLSGANRLTEDANIVQPVGLTVLGRHLYWIDRQQQMIERVEKTTGDKRTRV
 QGRVTHLTGIHAVEEVSLEEFSAHPCARDNGGCSHICIAKGDGTPRCSCPVHLVLLQNLLTCGEPPTCSP
 DQFACTTGEIDCIPGAWRCDFPECADQSDEEGCPVCSASQFPCARGQCVDLRLRCDGEADCQDRSDEAN
 CDAVCLPNQFRCTSGQCVLKQQCDSFPDCADGSDELMEINKPPSDDIPAHSSAIGPVIGIILSLFVMG
 GVIYFVCQRVMCQRYTGASGPFPHYVGGAPHVPLNFIAPGGSQHGPFPGIPCSKVMSSMSLVGGGRGSPV
 LYDRNHVTGASSSSSSSTKATLYPPILNPPSPATDPSLYNVDFYSSGIPATARPYRYPVIRGMAPPTT
 PCSTDVCDSDYSTSRWKSSKYLDLNSDSDPYPPPTPHSQYLSAEDSCPPSPGTERSCHLFPSPSPC
 TDSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-MYC/DDK
Predicted MW: 179.3 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
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 after receiving vials.
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_032539](#)

Locus ID:	16973
UniProt ID:	Q91VN0
RefSeq Size:	5172
Cytogenetics:	19 A
RefSeq ORF:	4842
Synonyms:	BMND1; HBM; LR3; LRP7; mKIAA4142; OPPG
Summary:	<p>Acts as a coreceptor with members of the frizzled family of seven-transmembrane spanning receptors to transduce signal by Wnt proteins. Activates the canonical Wnt signaling pathway that controls cell fate determination and self-renewal during embryonic development and adult tissue regeneration (PubMed:11956231). In particular, may play an important role in the development of the posterior patterning of the epiblast during gastrulation (PubMed:15142971). During bone development, regulates osteoblast proliferation and differentiation thus determining bone mass (PubMed:11956231). Mechanistically, the formation of the signaling complex between Wnt ligand, frizzled receptor and LRP5 coreceptor promotes the recruitment of AXIN1 to LRP5, stabilizing beta-catenin/CTNNB1 and activating TCF/LEF-mediated transcriptional programs (By similarity). Acts as a coreceptor for non-Wnt proteins, such as norrin/NDP. Binding of norrin/NDP to frizzled 4/FZD4-LRP5 receptor complex triggers beta-catenin/CTNNB1-dependent signaling known to be required for retinal vascular development (By similarity). Plays a role in controlling postnatal vascular regression in retina via macrophage-induced endothelial cell apoptosis (PubMed:11956231).[UniProtKB/Swiss-Prot Function]</p>