

Product datasheet for **RG213707**

LRP2 (NM_004525) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: LRP2 (NM_004525) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: LRP2
Synonyms: DBS; GP330; LRP-2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG213707 representing NM_004525
 Red=Cloning site Blue=ORF Green=Tags(s)

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 GCC**CGATCGCC**

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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG213707 representing NM_004525
 Red=Cloning site Green=Tags(s)

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 QICLPLVPGGLFSCACATGFKLNPNDRSCSPYNSFIVVSMLSAIRGFSLELSDHSETMVPVAGQGRNALHV
 DVDVSSGFYWCDFSSSVASDNARRIKPDGSSLMNIVTHGIGENGVRGIAVDWVAGNLYFTNAFVSETL
 IEVLRINTTYRRVLLKVTVDMPRHIVVDPKNRYLFWADYGQRPKIERSFLDCTNRTVLVSEGIPTPRGLA
 VDRSDGYVYVDDSLDIIARIRINGENSEVIRYGSRYPTPYGITVFENSIWVDRNLKKIFQASKEPENT
 EPPTVIRDNINWLRDVTIFDKVQPRSPAENVNPNPCLENNGGCSHLCFALPGLHTPKCDCAFGLTQSDGK
 NCAISTENFLIFALSNSLRSLHLDPENHSPPFQTINVERTVMSLDYDSVSDRIYFTQNLASGVGQISYAT
 LSSGIHTPTVIASGIGTADGIAFDWITRRIYYSYDLNQMINSMAEDGSNRTVIARVPKPRAILVLDPCQGY
 LYWADWDTHAKIERATLGGNFRVPIVNSSLVMPGSLTDYEEDLLYWVDASLQRIERSTLTGVDREVIVN
 AAVHAFGLTYGQYIYWTDLTYQRIYRANKYDGGQIAMTTNLLSQPRGINTVVKNQKQCCNNPCEQFNG
 GCSHICAPGPNGAECQCPHEGNWYLANNRKHCIVDNGERCASSFTCSNGRCISEEWKCDNDNDGCGDSD
 EMESVCALHTCSPTAFTCANGRCVQYSYRCDYINDCGDGSDEAGCLFRDCNATTEFMCNRRRCIPREFIC
 NGVDNCHDNNTSDEKNCPRDTCQSGYTKCHNSNICIPRYVYLCGDNDCGDNDSDENPTYCTTHTCSSSEFQ
 CASGRCIPQHWYCDQETDCFDASDEPASCGHSERTCLADEFKCDGGRCIPSEWICDGDNDCGDMSDEDKR
 HQCQNQCSDSEFLCVNDRPPDRRCIPQSWVCDGDVDCTDGYDENQNCNTRTCESENEFTCGYGLCIPKIF
 RCDRHNDGCDYSDERGCLYQTCQQNQFTCQNGRCISKTFVCEDEDNDCGDGSDLMHLCHTPEPTCPHEF
 KCDNGRCIEMMKLCNHLDDCLDNSDEKCGGINECHDPSISGCDHNCTDTLTSFYCSCRPGYKLMDSKRTC
 VDIDECTEMPVFCQKCEENVIGSYICKCAPGYLREPDGKTCRQNSNIEPYLIFSNRYLRNLTIDGYFYS
 LILEGLDNVVALDFDRVEKRLYWIDTQRQVIERMFLNKTNKETIINHRLPAAESLAVDWSRKLWYLDAR
 LDGLFVSDLNGGHRRLAQHCVDANNTFCFDNPRGLALHPQYGYLYWADWGHYRAYIGRVGMDGTNKSVII
 STKLEWNGITIDYTNLWYADAHLYEYSDLEGGHRRHTVYDGLPHPFATIFEDTIYWTDWNRTRTV
 EKGNKYDGSNRQTLVNTTHRPFDIHVYHPYRQPIVSNPCGTNNGGCSHLCLIKPGGKFTCECPDDFRTL
 QLSGSTYCMPCSSSTQFLCANNEKCIPIWVKCDGQKDCSDGSDELALCPQRFQFQFQCSGDNCTSPQT
 LCNAHQPCPDGSDERLLCENHHCDNSNEWQCANKRCIPESWQCDTFNDCEDNSDESSHCASRTCRPGQF
 RCANGRCIPQAWKCDVDNDCGDHSDPEIEECMSSAHLCDNFTEFCKTNYRCIPKWAVCNVDDCRDNDSD
 EQGCEERTCHPVGDFRCKNHHCIPLRWQCDGQNDGDNSEENCAPRECTESEFRVCVNOQCIPSRWICDH
 YNDCGDNSEDERDCMRTCHPEYFQCTSGHCVHSELKCDGSADCLDASDEADCPTFRPDGAYCQATMFECK
 NHVCIPPYWKCDGDDDCGDGSDEELHLCLDVPCNSPNRFRCDNNRCIYSHEVCNGVDDCGDGTDETEHC
 RKPTPKPCTEYKYKCGNGHCIPHDNVCCDADDCGDWSEDELGCNKGKERTCAENICEQNCTQLNEGGFICS
 CTAGFETNVFDRTSCLDINECEQFGTGPCQHRNKTGSYECVACDGFMSMSDRPGKRCAAEGSSPLLLLPD
 NVRIRKYNLSSERFSEYLQDEEYIQAVDYDWPDKDIGLSVVYYTVRGEGRFAGIKRAYIPNFESGRNLL
 VQEVDLKLYVMQPDGIAVDWVGRHIYWSVKNKRIEVAKLDGRYRKLWISTDLQPAIAVNPKLGLMF
 WTDWGKEPKIESAWMNGEDRNILVFEDLWPTGLSIDYLNNDRIYWSDFKEDVIETIKYDGTDRRVIKAE
 AMNPYSLDIFEDQLYWISKEKGEVWKQNKFGQKKEKTLVNPWLTVRIFHQLRYNKSVPNLCKQICSH
 LCLLRPGGYSACPCQSSFIEGSTTECDAAIELPINLPPPCRCMHGGNCYFDETDLPKCKCPSGYTGKYC
 EMAFSGISPGTTAVAVLLTILLIVVIGALAIAGFFHYRRTGSLLPALPKLPSLSSLVKPSENGVTFR
 SGADLNMDIGVSGFGPETAIDRSMAMSEDFVMEMGKQPIIFENPMYSARDSAVKVVPQIQVTVSENVNDK
 NYGSPINPSEIVPETNPTSPAADGTQVTKWNLFKRKSQTTFENPIYAQMENEQKESVAATPPSPSLP
 AKPKPPSRDPTPTYSATEDTFKDTANLVKEDSEV

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_004525.1](#), [NP_004516.1](#)

RefSeq Size: 14392 bp

RefSeq ORF: 13968 bp

Locus ID: 4036

UniProt ID: [P98164](#)

Cytogenetics: 2q31.1

Domains: ldl_recept_b, EGF_CA, ldl_recept_a, GBP_PSP, EGF, EGF

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Hedgehog signaling pathway

Gene Summary:

The protein encoded by this gene, low density lipoprotein-related protein 2 (LRP2) or megalin, is a multi-ligand endocytic receptor that is expressed in many different tissues but primarily in absorptive epithelial tissues such as the kidney. This glycoprotein has a large amino-terminal extracellular domain, a single transmembrane domain, and a short carboxy-terminal cytoplasmic tail. The extracellular ligand-binding-domains bind diverse macromolecules including albumin, apolipoproteins B and E, and lipoprotein lipase. The LRP2 protein is critical for the reuptake of numerous ligands, including lipoproteins, sterols, vitamin-binding proteins, and hormones. This protein also has a role in cell-signaling; extracellular ligands include parathyroid hormones and the morphogen sonic hedgehog while cytosolic ligands include MAP kinase scaffold proteins and JNK interacting proteins. Recycling of this membrane receptor is regulated by phosphorylation of its cytoplasmic domain. Mutations in this gene cause Donnai-Barrow syndrome (DBS) and facio-oculoacoustico-renal syndrome (FOAR).[provided by RefSeq, Aug 2009]