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# Product datasheet for RC218864L2V

## LRP5 (NM_002335) Human Tagged ORF Clone Lentiviral Particle

### Product data:

| | |
|---|---|
| **Product Type:** | Lentiviral Particles |
| **Product Name:** | LRP5 (NM_002335) Human Tagged ORF Clone Lentiviral Particle |
| **Symbol:** | LRP5 |
| **Synonyms:** | BMND1; EVR1; EVR4; HBM; LR3; LRP-5; LRP-7; LRP7; OPPG; OPS; OPTA1; PCLD4; VBCH2 |
| **Mammalian Cell Selection:** | None |
| **Vector:** | pLenti-C-mGFP (PS100071) |
| **Tag:** | mGFP |
| **ACCN:** | NM_002335 |
| **ORF Size:** | 4845 bp |
| **ORF Nucleotide Sequence:** | The ORF insert of this clone is exactly the same as(RC218864). |
| **OTI Disclaimer:** | 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. |
| **RefSeq:** | NM_002335.1 |
| **RefSeq Size:** | 5100 bp |
| **RefSeq ORF:** | 4848 bp |
| **Locus ID:** | 4041 |
| **UniProt ID:** | O75197 |
| **Cytogenetics:** | 11q13.2 |
| **Domains:** | ldl_recept_b, ldl_recept_a, EGF, EGF |
| **Protein Families:** | Druggable Genome, Transmembrane |

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**Protein Pathways:** Wnt signaling pathway

**MW:** 179 kDa

**Gene 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]