

## Product datasheet for **SC215258**

### LRP2 (NM\_004525) Human 3' UTR Clone

#### Product data:

Product Type:	3' UTR Clones
Product Name:	LRP2 (NM_004525) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	LRP2
Synonyms:	DBS; GP330; LRP-2
ACCN:	NM_004525
Insert Size:	1584 bp



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**Insert Sequence:** >SC215258 3'UTR clone of NM\_004525  
 The sequence shown below is from the reference sequence of NM\_004525. The complete sequence of this clone may contain minor differences, such as SNPs.  
 Blue=Stop Codon Red=Cloning site

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GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
AATCTTGTTAAAGAAGACTCTGAAGTATAGCTATACCAGCTATTTAGGGAATAATTAGAAACACACTTT
TGCACATATATTTTTTACAAACAGATGAAAAAAGTTAACATTTCAGTACTTTATGAAAAAATATATTTT
TCCCTGTTGCTATAGTTGGAGGTATCCTGTGTCTTTTTTTACTTATGCCGTCTCATATTTTTACA
AATAATTATCACAATGTACTATATGTATATCTTTGCACTGAAGTTGTCTGAAGTAATACTATAAATAT
ATTGTATATTTGTAATTTTGGAAAGATTATCCTGTTACTGAATTTGCTAATAAAGATGTCTGCTGATT
TGGTTGGTGATCATTATAGTAAATGATCCAACAAGAAAAGGAATTGACTGGGACCTTTAGCCGTGCT
AAAGAAGAGGCCACTCATATTTCTATAAAAATTATCTAGGAAAGGAATCCAGGCCCGCTCTTGGGT
CCATTTTTACACATTAGCACTTAATTAATGTTCAATATTACATGTCAATTTGATTAATGGCTATGTTGA
TAGGGGCCACTATGTGTTGTATAGACATCTGGACTTGACTGTAGACTCCTCAGATAATACAGAAGGTAG
GAAAAGCAATTCAGTTTGCCCTTCTGTGTGTTGGCATTGTCTAACCAAGAACTCTCTGTTTCATGTGTG
TTCTCTCACTAGCTGCCAAGACAACATTTTTATTTGTGATGTCTATGAGGAAATCCCATATCATTAAGT
GCCAGTGTCTGCATTGAGTTTGTGGTTAATTAATGAGCTCTTCTGCTGATGGACCCTGGAGCAATTT
CTCCCCTCACCTGACATTCAGGTGGTCACCTGCCCTAGTAGTTGGAGCTCAGTAGCTGAATTTCTGAA
ACCAAATCTGTGCTTTCATAAAAAGGTGCAAAAAAAAAAATACCAGTTAAGTAAAGCCTCAACTGG
GTTTTTGTCTATGAAAATATCATTATAATCACTATTTATTTCTAAGTTGAACCTGAATAGAAAAGGG
AAACCATTCTTATTAAGCTTTTTATTAGGCCCTGTGGCTAAATGTGTACATTTATATTAGAATGTACTG
TACAGTCCAGATCTTTTCTTAATTCTTATTGGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAGAGATGGAGTCTT
GCTATATTGCCAAGGCTGATCTTGAAGTCTGGGCTCAAGTGATCCTCCACCTCAGCCTCCTGAGTGG
TTGGGGTTACGGGCGTGAGCCACTGTGCCTGGCTTCCAGCTCTCCTTAAATAGTGGGTATAGTCTGC
ACAACAGGAACCATGGCAGGAATATACACTTTCCCATAGCAAATAGCATACTGACTCTCTGTGCTAAT
ATTGCACATTTGTTAAACAATGAATGAATGGATGGATGGATGGATGAATGAATGAAACATATACT
ACTGATTATTTTATTCCAGAGTTCTCAAATATTTGTTGCTGATATTTGAGTGTGACTGTAATTACT
TTGATTAGATAAACAACCTGGAAATAATGCTGCTGAAAAAGTTCTAATAAATGTGTATTTTATCAGA
ACGCGTAAGCGGCCGCGCATCTAGATTGAAGAAAATGACCGACCAAGCGACGCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
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**Restriction Sites:** SgfI-MluI

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

**Components:** The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

**RefSeq:** [NM\\_004525.3](#)

**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]

**Locus ID:**

4036

**MW:**

61.2