

Product datasheet for **RG218369**

LRP1 (NM_002332) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LRP1 (NM_002332) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LRP1
Synonyms:	A2MR; APOER; APR; CD91; IGFBP-3R; IGFBP3R; IGFBP3R1; KPA; LRP; LRP1A; TGFBR5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG218369 representing NM_002332 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence:

>RG218369 representing NM_002332
 Red=Cloning site Green=Tags(s)

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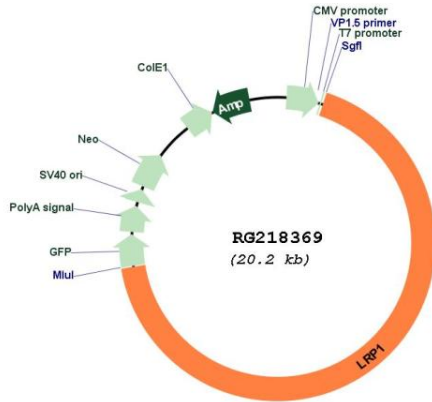
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

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:	<ol style="list-style-type: none">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:	<u>NM_002332.1</u> , <u>NP_002323.1</u>
RefSeq Size:	14896 bp
RefSeq ORF:	13635 bp
Locus ID:	4035
UniProt ID:	<u>Q07954</u>
Cytogenetics:	12q13.3
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Alzheimer's disease
Gene Summary:	This gene encodes a member of the low-density lipoprotein receptor family of proteins. The encoded preproprotein is proteolytically processed by furin to generate 515 kDa and 85 kDa subunits that form the mature receptor (PMID: 8546712). This receptor is involved in several cellular processes, including intracellular signaling, lipid homeostasis, and clearance of apoptotic cells. In addition, the encoded protein is necessary for the alpha 2-macroglobulin-mediated clearance of secreted amyloid precursor protein and beta-amyloid, the main component of amyloid plaques found in Alzheimer patients. Expression of this gene decreases with age and has been found to be lower than controls in brain tissue from Alzheimer's disease patients. [provided by RefSeq, Oct 2015]

Product images:



Circular map for RG218369