

Product datasheet for **RG200759**

LRP3 (NM_002333) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	LRP3 (NM_002333) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LRP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG200759 representing NM_002333
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**

ATGGAGAAGCGCGGCCCGGGGCTGGAGGGCGCGCCGGGCGCCGGGCGCAGCTGGCCGTCGTCTGTC
 TGGTGAACATCTTTCTACCGGGAGACTCAGCAGTGCGGTTCTGCCTTAGCGGCCTGCAGTGGGAAGCT
 GGAGCAGCACACGGAGCGGCGTGGGTCTCTACAGCCCGGCTGGCCCTCAACTACCGCCAGGCACC
 AACTGCAGCTGGTACATCCAGGGCGACCGTGGTGACATGATTACCATCAGCTTCCGCACTTTGACGTGG
 AGGAGTCCACCACTGCTCCCTGGACTGGCTCCTGCTGGGCCCAGCAGCCCCACCGCCAGGAGGCCTT
 CCGCCTCTGTGGTCCGCCATCCACCTGCCTTCTGCTGCCGCGACCATGTCTGGATTTTCTCCAC
 TCAGACGCTCCAGCTCCGGCCAGGCCAGGGCTTCCGCTGTCTTACATCCAGGGAAGCTGGGCCAGG
 CATCTGCCAGGCAGATGAGTTCCGCTGTGACAACGGCAAGTGCCTGCCGCGCCGCTGGCAGTGCAACAC
 GGTGGACGAGTGTGGAGACGGCTCTGATGAGGGCAACTGCTCGGCGCCCGCTCCGAGCCTCCAGGCAGC
 CTGTGCCCGGGGGACCTTCCCATGCAGCGGGCGCGCTCCACGCGCTGCCTGCCTGTGGAGCGCGCT
 GTGACGGCTTGCAGGACTGCGGGCAGCGCTCGGATGAGGCGGGCTGCCCCGACCTGGCGTGCGGCCGGCG
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 GCCCGCAGCGCCGCCACGGCTTCAATGCCACCTACCAGGTGAAGGGCTATTGCCTCCCCTGGGAGCAGC
 CGTGCGGGAGCAGTAGTGACAGTGACGGGGCAGCCTGGGCGACCAGGGCTGCTTCTCAGAGCCACAGCG
 CTGTGATGGCTGGTGGCATTGTGCCAGCGCCGAGACGAGCAGGAGGCTGCCCTGCCCTGCCCGCCGACCCAG
 TACCCCTGCGAGGGTGGCAGTGGTCTGTGCTACACGCTGCCGACCGCTGCAACAACAGAAAAGTGTG
 CCGACGGCGCCGACGAGAAGAACTGCTTCTCCTGCCAGCCCGCACCTTCCACTGCGGTACCAACCTGTG
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 TCGCGCTGGGTGCGCCTTCAAGCTCTACTCACTGCGCACGCAGGAATACAGGGCCTTCGAGACCCAGAT
 GACGCGCCTGGAGGTGAGTTCTGTGCGGCGGGAGGCACCCCATCTATGGTCAGCTCATCGCCAGGGC
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 GGGACCTTCAGGGCCACCTTGCCTCGGGCTGCGAGACCCAGAGTGACGGCCCGTGGACAAGGACAGA
 AAGGTCTGCAGGGAGCCACTGGCAGACGGCCAGCTCCTGCAGATGCACCTCGGGAGCCCTGCTCAGCCC
 AGGACCCGACCCCAAGGTCTCCACTGCCAGCAGCACCTGGGCCCCACTCGCCAGAGCCACTGGGGT
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AG**CGGACCG**ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

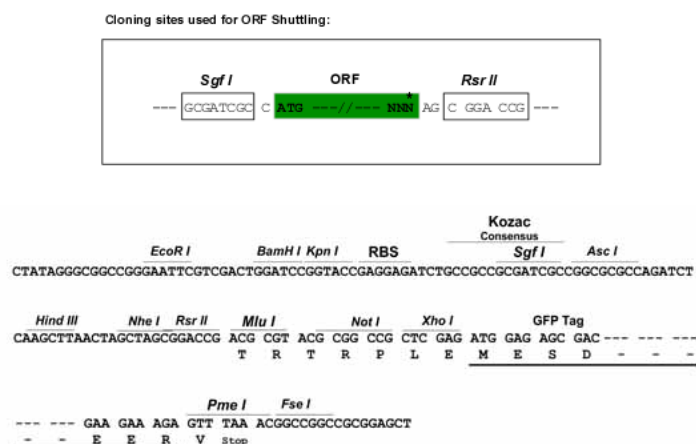
Protein Sequence: >RG200759 representing NM_002333
 Red=Cloning site Green=Tags(s)

MEKRAAAGLEGAPGARAQLAVVCLVNIFLTGRLSSAVPALAACSGKLEQHTERRGVIYSPAWPLNYPPT
NCSWYIQGDRGDMITISFRNFDVEESHQCSLDWLLLGAAPPRQEAFRLCGSAIPPAFISARDHVWIFFH
SDASSSGQAQGFRLSYIRGKLGQASCQADEFRCDNGKCLPGWPQCVNTVDECGDGSDEGNCSAPASEPPGS
LCPGGTFPCSGARSTRCLPVERRCDGLQDCGDGSDEAGCPDLACGRRLGSFYGSFASPDLFGAARGPSDL
HCTWLVDTDQSRRLVLLQLELRLGYDDYQVYEGLGGERGDRLLQTLSTYRSNHRPVSLAAQGRLLTVAYHAR
ARSAGHGFNATYQVKGYCLPWEQPCGSSSDSGGSLGDQGCSEFPQRCDGWWHCASGRDEQGCPCACPPDQ
YPCEGSGSLCYTPADRCNNQKSCPDGADEKNCFSQCPGTFHCGTNLCIFETWRCDDQEDCDQDGSDEHGCL
AAVPRKVITAALIGSLVCGLLLVIALGCAFKLYSLRTQEYRAFETQMTREAEFVRREAPPSYGQLIAQG
LIPPEDFPVYASQASVLQNLRTAMRRQMRHRRGSPRRRLGLRWNLFRHPRAPRGQIPLLTAAAP
SQTVLGDGFLGAPAGADPPAPLMDTGSTRAAGDRPPSAPRAPEVGSPPGLPSGLDPCECPVDDKDR
KYCREPLADGPAAADAPREPCSAODPHPOVSTASSTLGPHSPEPLGVCRNPPPPCSPLMEASDDEALLVC

SGP^{TR}TRRLE - GFP Tag - V

Restriction Sites: SgfI-RsrII

Cloning Scheme:



ACCN: NM 002333

ORF Size: 2310 bp

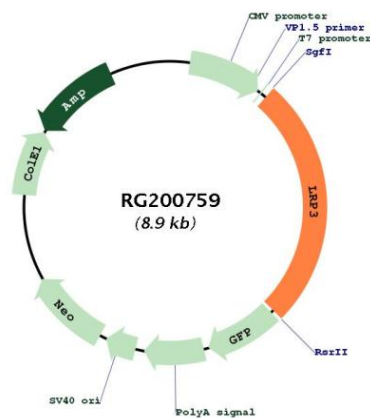
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.

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:	<u>NM_002333.1, NP_002324.1</u>
RefSeq Size:	2601 bp
RefSeq ORF:	2313 bp
Locus ID:	4037
UniProt ID:	<u>O75074</u>
Cytogenetics:	19q13.11
Domains:	CUB, ldl_recept_a
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	Probable receptor, which may be involved in the internalization of lipophilic molecules and/or signal transduction. Its precise role is however unclear, since it does not bind to very low density lipoprotein (VLDL) or to LRPAP1 in vitro.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG200759