

## Product datasheet for **RG216747**

### LRPPRC (NM\_133259) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	LRPPRC (NM_133259) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	LRPPRC
Synonyms:	CLONE-23970; GP130; LRP130; LSFC; MC4DN5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG216747 representing NM_133259 Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

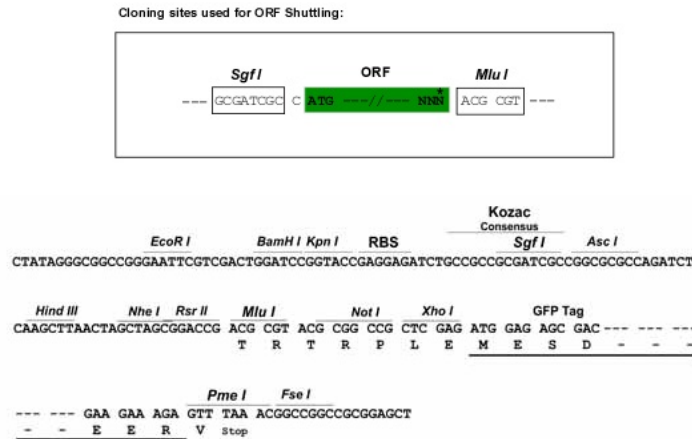
Protein Sequence: >RG216747 representing NM\_133259  
 Red=Cloning site Green=Tags(s)

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 ESYHVP ELIKDAHLLVESKNLDFQKTVQLTSSELESTLETLKAENQPIRDV LKQLILVLCSEENMQKALE  
 LKAKYESDMVTGGYAALINLCCRHDKVEDALNLKEEFDRLDSSAVLDTGKYVGLVRVLAKHGK LQDAINI  
 LKEMKEKDVL IKDTTAL SFFHMLNGAALRGEIETVKQLHEAIVTLGLAEPSTNISFPLVT VHLEKGD LST  
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 KEAVTT LKTVLDQQQTPSRLAVTRVIQALAMKGDVENIEVVQKMLNGL EDSIGLSKMFV INNIALAQIKN  
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 LVDAGKVDDARALLQRCGAIAEQTPILL LFLRNSRKQ GKASTVKS VLELIPELNEKEEAYNSLMKSYVS  
 EKDVTSAKALYEHLTAKNTKLDLDFLKRYASLLKYAGEPVPFIEPPESFEFYAQQLRKLRENS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

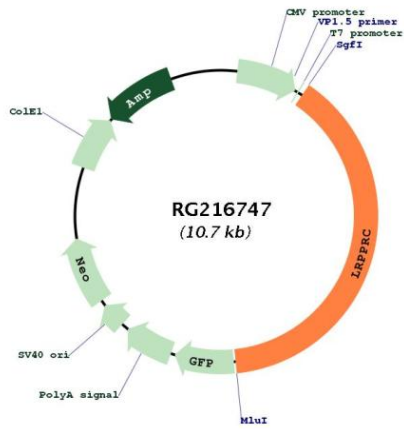


ACCN: NM\_133259

ORF Size: 4182 bp

<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
<b>Components:</b>	<p>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).</p>
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<p><a href="#">NM_133259.2</a>, <a href="#">NP_573566.2</a></p>
<b>RefSeq Size:</b>	<p>5095 bp</p>
<b>RefSeq ORF:</b>	<p>4185 bp</p>
<b>Locus ID:</b>	<p>10128</p>
<b>UniProt ID:</b>	<p><a href="#">P42704</a></p>
<b>Cytogenetics:</b>	<p>2p21</p>
<b>Domains:</b>	<p>PPR</p>
<b>Gene Summary:</b>	<p>This gene encodes a leucine-rich protein that has multiple pentatricopeptide repeats (PPR). The precise role of this protein is unknown but studies suggest it may play a role in cytoskeletal organization, vesicular transport, or in transcriptional regulation of both nuclear and mitochondrial genes. The protein localizes primarily to mitochondria and is predicted to have an N-terminal mitochondrial targeting sequence. Mutations in this gene are associated with the French-Canadian type of Leigh syndrome. [provided by RefSeq, Mar 2012]</p>

Product images:



Circular map for RG216747