

## Product datasheet for **RG204847**

### LRP12 (NM\_013437) Human Tagged ORF Clone

#### Product data:

|                           |                                          |
|---------------------------|------------------------------------------|
| Product Type:             | Expression Plasmids                      |
| Product Name:             | LRP12 (NM_013437) Human Tagged ORF Clone |
| Tag:                      | TurboGFP                                 |
| Symbol:                   | LRP12                                    |
| Synonyms:                 | MIG13A; ST7                              |
| Mammalian Cell Selection: | Neomycin                                 |
| Vector:                   | pCMV6-AC-GFP (PS100010)                  |
| E. coli Selection:        | Ampicillin (100 ug/mL)                   |



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**ORF Nucleotide  
Sequence:**

>RG204847 representing NM\_013437  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGC**

ATGGCCTGTCGCTGGAGCACAAAAGAGTCTCCGCGGTGGAGGTCTGCGTTGCTCTTGCTTTTCCTCGCTG  
 GGGTGTACGGAAATGGTCTCTTGCAGAACATTCTGAAAATGTGCATATTTACAGGAGTGCAACTGCTTG  
 TGGAGAGACTCCAGAGCAAATACGAGCACCAAGTGGCATAATCACAAGCCAGGCTGGCCTTCTGAATAT  
 CCTGCAAAAATCAACTGTAGCTGGTTCTAAGGGCAAACCCAGGCGAAATCATTACTATAAGTTTCAGG  
 ATTTTGATATTCAAGGATCCAGAAGGTGCAATTTGGACTGGTTGACAATAGAAACATACAAGAATATTGA  
 AAGTTACAGAGCTTGTGGTTCCACAATCCACCTCCGTATATCTTTCACAAGACCACATCTGGATTAGG  
 TTTCATTCCGATGACAACATCTAGAAAGGGTTTCAGACTGGCATAATTTTCAGGGAAATCTGAGGAAC  
 CAAATTGTGCTTGTGATCAGTTTCGTTGTGTAATGGAAGGTGTATACCAGAAGCCTGGAATGTAATAA  
 CATGGATGAATGTGGAGATAGTTCGATGAAGAGATCTGTGCCAAAGAAGCAAATCCTCCAACCTGCTGCT  
 GCTTTTCAACCCTGTGCTTACAACCAAGTCCAGTGTATATCCCGTTTACCAAAGTTTACACTTGCCTCC  
 CCGAATCTTTAAATGTGATGGGAACATTGACTGCCTTGACCTAGGAGATGAGATAGACTGTGATGTGCC  
 AACATGTGGGCAATGGCTAAAATATTTTATGGTACTTTTAATCTCCCAATTATCCAGACTTTTATCCT  
 CCTGGAAGCAATTGCACCTGGTTAATAGACACTGGTGATCACCCTAAAGTCATTTTACGCTTCACTGACT  
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 GCTTTTGGCTGTGTGACAGCTTTTGATTCTCATGCACCTTTACAGTTGTTTCTTCTTGACAGATA  
 AGGGTACATTTTGTGCTGATAAAGTGAATGCTGCAAGGGGATTTAATGCTACTTACCAAGTAGATGGGT  
 TCTGTTTGCCATGGGAAATACCCTGTGGAGTAAGTGGGGGTGTATCTGAGCAGCAGCGTTGTGATGG  
 GTATTGGCATTGCCCAAATGGAAGGGATGAAACCAATTGTACCATGTGCCAGAAGGAAGAAATTTCCATGT  
 TCCCGAAATGGTGTCTGTATCCTCGTTCTGATCGCTGCAACTACCAGAATCATTGCCCAAATGGCTCAG  
 ATGAAAAAACTGCTTTTTTGGCAACCAGGAAATTTCCATTGTAAAAACAATCGTTGTGTGTTGAAAG  
 TTGGGTGTGTGATTCTCAAGATGACTGTGGTGATGGCAGCGATGAAGAAAATGGCCAGTAATCGTGCT  
 ACAAGAGTCATCACTGCTGCCGTATAGGGAGCCTCATCTGTGGCTGTTACTCGTCATAGCATTGGGAT  
 GTACTTGAAGCTTTATCTCTGAGAATGTTTGAAGAAGATCATTTGAAACACAGTTGTCAAGAGTGGA  
 AGCAGAATTGTTAAGAAGAGAAGCTCCTCCCTCGTATGGACAATTGATTGCTCAGGGTTAATTCCACCA  
 GTTGAAGATTTTCTGTTTGTTCACCTAATCAGGCTTCTGTTTGGAAAATCTGAGGCTAGCGGTACGAT  
 CTCAGCTTGGATTACTTCAGTCAGGCTTCTATGGCAGGCAGATCAAGCAACATTTGGAACCGTATTTT  
 TAATTTTGCAAGATCACGTCAATTCTGGGTCAATTGGCTTTGGTCTCAGCAGATGGAGATGAGGTTGTCCCT  
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 AAGTTCCCTAAGTCAGAACCAAGTCCCTTGAGACAACCTTGATAATGGGGTAAGTGAAGAGAAGATGAT  
 GATGATGTTGAAATGCTAATCCAATTTCTGATGGATCTTCAGACTTTGATGTGAATGACTGCTCCAGAC  
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 AAGGCCAAGTAATCGAGATGGCCCTGTGAGCGCTGTGGTATTGTCCACACTGCCAGATACCAGACACT  
 TGCTTAGAAGTAACACTGAAAAACGAAACGAGTGATGATGAGGCTTTGTTACTTTGT

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG204847 representing NM\_013437  
 Red=Cloning site Green=Tags(s)

```
MACRWSTKESPRWRSALLLLFLAGVYNGALAEHSENVHISGVSTACGETPEQIRAPSGIITSPGWPSEY
PAKINC SWFIRANPGEIITISFQDFDIQGSRRCNLDWLT IET YKNIESYRACGSTIPPPYISSQDHIWIR
FHSDDNISRKGFRLAYFSGKSEEPNCACDQFRCGNGKCIPEAWKCNMDECGDSSDEEICAKEANPPTAA
AFQPCAYNQFQCLSRFTKVYTCLPESLKCDGNIDCLDLGDEIDCDVPTCGQWLKYFYGT FN SPNYPDFYP
PGSNCTWLIDTGDHRKVILRFTDFKLDGTGYGDYVKIYDGLEENPHKLLRVLTAFD SHAPLTVVSSSGQI
RVHFCADKVNAARGFNATYQVDGFCLPWEIPCGGNWGCYTEQQRCDGYWHCPNGRDET NCTMCQKEEFPC
SRNGVCYPRSDRCNYQNHCPNGSDEKNCFFCQPGNFHCKNNRCVFESWVCD SQDDCGDGSDEENCPVIVP
TRVITAAVIGSLICGLLLVIALGCTCKLYSLRMFERRSFETQLSRVEAELLRREAPPSYQLIAQGLIPP
VEDFPVCSPNQASVLENLRLAVRSQLGFTSVRLPMAGRSSNIWNRI FNFARSRHSGSLALVSADGDEVVP
SQSTSREPERNHTRSLFSVESDDTD TENERRDMAGASGGVAAPLPQKVPPTTAVEATVGACASSSTQST
RGGHADNGRDVT SVEPPSVSPARHQLTSALSRMTQGLRWVRFTLGRSSSL SQNQSP LRQLDNGVSGREDD
DDVEMLIPI SDGSSDFDVNDCSRPLLDLASDQGQGLRQPYNATNP GVRPSNRDGPCERC GIVHTAQIPDT
CLEVTLKNETSDDEALLLC
```

TRTRPLE – GFP Tag – V

**Restriction Sites:** Sgfl-MluI

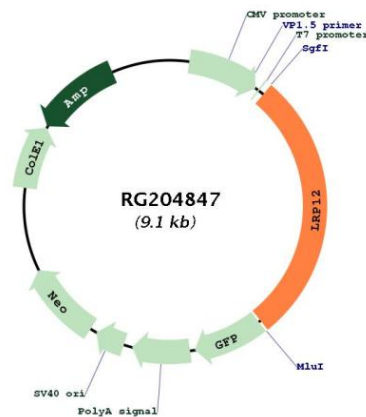
Cloning Scheme:



|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ACCN:           | NM_013437                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| ORF Size:       | 2577 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. <a href="#">More info</a> |
| 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).                                                                                                                                                                                                                                                               |

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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>Note:</b>                  | Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>RefSeq:</b>                | <u>NM_013437.4, NP_038465.1</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>RefSeq Size:</b>           | 4149 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>RefSeq ORF:</b>            | 2580 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Locus ID:</b>              | 29967                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>UniProt ID:</b>            | <u>Q9Y561</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Cytogenetics:</b>          | 8q22.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Domains:</b>               | CUB, ldl_recept_a                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Protein Families:</b>      | Druggable Genome, Transmembrane                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Gene Summary:</b>          | This gene encodes a member of the low-density lipoprotein receptor related protein family. The product of this gene is a transmembrane protein that is differentially expressed in many cancer cells. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Feb 2010]                                                                                                                                                                                                                        |

## Product images:



Circular map for RG204847