

## Product datasheet for **RR201153**

### Gabarapl1 (NM\_001044294) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Gabarapl1 (NM\_001044294) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Gabarapl1  
**Synonyms:** Gec1  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR201153 representing NM\_001044294  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

**ATGAAGTTCAGTATAAAGAGGACCACCCCTTCGAATATCGGAAAAGGAAGGTGAAAAATAAGGAAGA  
AATACCCGGACAGGGTGCCGGTCATCGTGGAGAAGGCTCCTAAAGCCAGGGTCCCCGATCTGGATAAGAG  
GAAGTACCTTGTGCCCTCCGACCTCACTGTTGGCCAGTCTACTTCTTAATCCGGAAGAGGATCCACCTG  
AGACCTGAGGACGCTTATTCTTCTTTGTCAACAACACTATCCCTCCCACCAAGTGTACCATGGGACAGC  
TGTATGAGGACAACCATGAGGAAGACTATTTTCTGTATGTGGCCTACAGTGATGAAAGTGTCTACGGGAA  
A**

**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA**

**Protein Sequence:** >RR201153 representing NM\_001044294  
**Red=Cloning site Green=Tags(s)**  
  
MKFYKEDHPFEYRKKEGKIRKKYPDRVPVIVEKAPKARVPDLDRKYLVPSDLTVGQFYFLIRKRIHL  
RPEDALFFFVNNIPPTSATMGQLYEDNHEEDYFLYVAYSDESVMYK

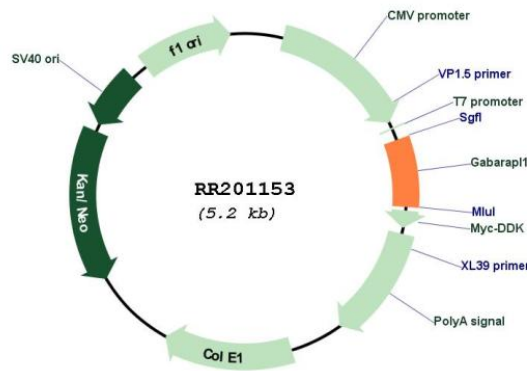
**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Restriction Sites:** Sgfl-MluI



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**Cloning Scheme:**

**Plasmid Map:**


ACCN: NM\_001044294

ORF Size: 351 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](#)

|                               |   |
|-------------------------------|---|
| <b>OTI Annotation:</b>        | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.  |
| <b>Components:</b>            | 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>RefSeq:</b>                | <u><a href="#">NM_001044294.1</a></u> , <u><a href="#">NP_001037759.1</a></u>   |
| <b>RefSeq Size:</b>           | 1719 bp   |
| <b>RefSeq ORF:</b>            | 354 bp  |
| <b>Locus ID:</b>              | 689161  |
| <b>UniProt ID:</b>            | <u><a href="#">Q0V GK0</a></u>  |
| <b>Cytogenetics:</b>          | 4q42  |
| <b>MW:</b>                    | 14 kDa  |
| <b>Gene Summary:</b>          | Ubiquitin-like modifier that increases cell-surface expression of kappa-type opioid receptor through facilitating anterograde intracellular trafficking of the receptor. Involved in formation of autophagosomal vacuoles. Whereas LC3s are involved in elongation of the phagophore membrane, the GABARAP/GATE-16 subfamily is essential for a later stage in autophagosome maturation (By similarity).[UniProtKB/Swiss-Prot Function]   |