

Product datasheet for **RG230712**

GPRASP1 (NM_001184727) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: GPRASP1 (NM_001184727) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: GPRASP1
Synonyms: GASP; GASP-1; GASP1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG230712 representing NM_001184727
Red=Cloning site Blue=ORF Green=Tags(s)

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GCC**CGATCGCC**

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GCTGATGATGAACAGGTCATTATTGGTTCCTGGTCTGGGCTGGTGAAGAGGTCACCAAGAGGCTGAGG
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ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG230712 representing NM_001184727
 Red=Cloning site Green=Tags(s)

MTGAEIESGAQVKPEKKPGEEVVGGAIEIENDVPLVVRPKVRTQAQIMPGARPKNKSKVMPGASTKVETSA
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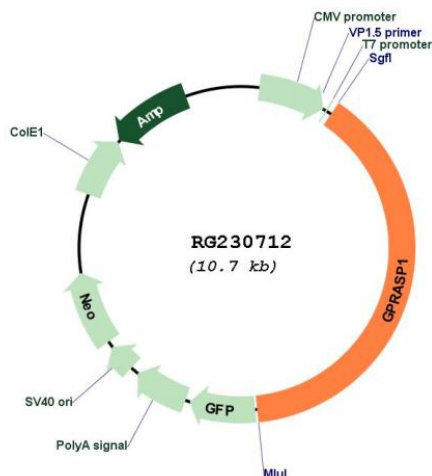
TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001184727

ORF Size: 4185 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: [NM_001184727.2](#)

RefSeq Size: 5997 bp

RefSeq ORF: 4188 bp

Locus ID: 9737

UniProt ID: [Q5JY77](#)

Cytogenetics: Xq22.1

Protein Families: Druggable Genome

Gene Summary: This gene encodes a member of the GPRASP (G protein-coupled receptor associated sorting protein) family. The protein may modulate lysosomal sorting and functional down-regulation of a variety of G-protein coupled receptors. It targets receptors for degradation in lysosomes. The receptors interacting with this sorting protein include D2 dopamine receptor (DRD2), delta opioid receptor (OPRD1), beta-2 adrenergic receptor (ADRB2), D4 dopamine receptor (DRD4) and cannabinoid 1 receptor (CB1R). Multiple alternatively spliced transcript variants encoding the same protein have been identified. [provided by RefSeq, May 2010]