

Product datasheet for **MG211032**

Gprasp1 (BC027187) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gprasp1 (BC027187) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gprasp1
Synonyms:	GASP1, GASP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG211032 representing BC027187
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAAAGTGGGCCAAAGGCTACTTCTAAATCTATGCCAGTAGCTAAGGAGGATGAGGTCGTTATTGGGT
 CCTGGTTCGGGCAGATGATGAAGAGATCAACTTACAGGCTGATGACGAGTCTATTTTTGGATCTTGGTT
 CTGGGGCACTGGTGAGAACAGCCTTAGATCTGTTGGAGTCAATTGTGAGAAGATGCCGAAGGCTGGAGAA
 AAAGAAGTTACTGATTCTCGTTCTGGGCTGGAGATGTCAATACAGAGGCTGAGGTTGAAGAACAGGCCA
 GGTCCGGCATCTACAAAAGCAACAATCTTTGTGCCTTGGTTTTGGTCTGAAAAGCAGCCGAACATGGATTT
 AGGGTCTGAACCTTGCTCAGATATCATGGCAGGAGCTGAGGAGGAGCCATAATTGGGCCCTGGTCTGG
 GCTAAAGTAGATAATAGTGTGGAGGCTGAAGTTAACAGTAAGTCTAGCCTTGAGGATGAGGAAGAACCCA
 TTAGATCCCTTGGTTTGGGGCCAGAGAACAACCGATATGAAGTATGCAGCTGGTATCAGATACAAGCC
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 AATAGAGAATGCTTGAATCTACTCTGGGAGAAAAAGAAGACACTGTTGATCCATGGCTCTGGTCCAATA
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 AACCCGAGTCTCAGCTGAGCACGAACCTGACCCTTCCCAGGCCCTCAGAGCTGGGATGAGGTCAGTGT
 TCAGTTTAAAGGCTGGTCCGTGGGAAAAGCTGGCTTCCCACCCATGAACCCCTTCAGATCCCCAAAGAA
 GCGGCATCTCTGTTTGCAGAAATGTTTGGGGAAAGCCTAAGCTTGTGGAAGTTGGTCCAGAAAGGGAGC
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 AATATTTGAGACTATCAGTAAACATATTCAAAAAGAGGCACTGTTTTCTGATGATGATGATGATGATGAA
 GAAGAAGATGCAGTGAATCTTGAACCTTTATTTCTGCATTCCGTGAGGCTGAAAAAATTGCCAAGGAAC
 TAAAACGCAAACCTGGCAATCAAAAAGCACCC

ACCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG211032 representing BC027187
 Red=Cloning site Green=Tags(s)

MESGPKATSKSMPVAKEDVIGSWFWADDEEINLQADDESIFGSWFWGTGENSLRSVGVNCEKMPKAGE
 KEVTDSWFWAGDVNTEAEVEEQARSASTKATIFVPWFSEKQPNMDLGSEPCSDIMAGAEIEPIIGPWF
 AKVDNSVEAEVNSKSSLEDEEPIRSPWFGAREQTDKMYAAGIRYKPMAEADANKKSCVWAKEPCLYPT
 NRECLKSTLGEKEDTVPWLWSNNYPRKTTITGSLWAAEEGNIDDETGEKIKLPTLEDNAFNPSWFKEN
 EESIVEAPKREEFPEAEEDIIGSWFWAGDEDRFEPAAKINEENKIASDEDETVGSWFWGNEEASLEAV
 RRGTFESAPGIKEEKVTSWFWTDKAKVAGSQTIVETGSETEEEAIFESLIWAAKDSIQAGVKRVSKPK
 DDGNIAVGSLWSSDKATKEAKTLIVSEASPENGKESVVKFGSRAKDEVINKTSGSDNCKHSTEAEITVG
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 AASLFAEMFGGPKLVEVGPEREPEPQFPFYDPSYRSVREIREHLKARESAQPENWSCNCIQCELRIQS
 EEFEEELLLMDRNRDPFIHEISKIAMGMRGASQFTRDFIRNSGVVSLIEALLNYPSSRVTRFLNVMRM
 APPYPLNMIETVVCQICEDTFDYDLDSPQLSGLTMITHLTATSDYHKVVVNYLAGFFYLLNSGNTKTR
 FHVLLKLLNLSENLMVKRLLVTDVSEFMDLINREESDENIQIVLAIFETISKHIQKEALFSDDDDDE
 EEDAVNLEPFIISAFREAEKIAKELKRKPGNQKAP

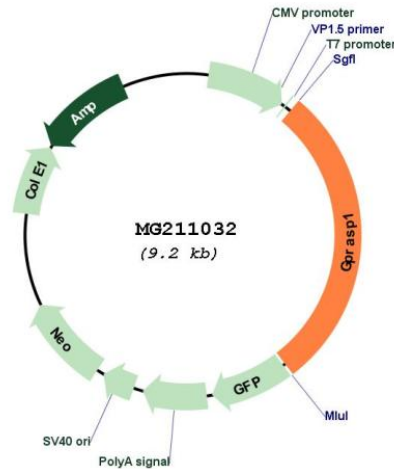
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: BC027187

ORF Size: 2622 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: [BC027187.1](#)

RefSeq Size: 3139 bp

RefSeq ORF: 2624 bp

Locus ID: 67298

Cytogenetics: X F1

Gene Summary:

Modulates lysosomal sorting and functional down-regulation of a variety of G-protein coupled receptors. Targets receptors for degradation in lysosomes via its interaction with BECN2.[UniProtKB/Swiss-Prot Function]