

## Product datasheet for **MG211939**

### Gprasp1 (NM\_001004359) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Gprasp1 (NM\_001004359) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Gprasp1  
**Synonyms:** 2210415K24Rik; 3110031O14Rik; C87852; GASP; GASP1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG211939 representing NM\_001004359  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACTAGGGCAGAGGTTGAGCCTGGTGCCAGGCAAAGGCTGAAAATAAGCCTGGGGATGAGAATGCTA  
ATGCTGCTGAAGTAGAGCCTGAAGCCCCATTGGTGGTCAGACCCAAGGTTAGGACACAAATCATGACTGG  
AGCAAGGCCCAAAGTGAAGCCTAAGGGTACCCCTGGAGCAAGACCTAAAGGTGAAACCAGTACACCAGT  
GGGGCATATGCCAAATGTAACCTAAGGCAATCCCTATTGCTCGATCCAAGCATGATGCCAAAGTGTGGG  
CCCCAAATAAGTTTCGTGGCGAGTCCATGTCAAAGATGGGAAAGCAATGTCAGATCAGTGTGCAGACCC  
TCCACTGCTCAGTAATGATTCTGGGATGGTTGCTCAAGCTAAGTGCCTGCCTGTAGATAGAGAACTTGCT  
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AGGAGGGAACCAATATGGGGTCTGGTACCGTGCCAGGCCTGTCCCAAAGGAGAGGCCTATGAGAATTC  
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TTTCGTCTAGGAAAAGCATGAAGGCCAATAACAGGTTTCAGGCATATGGCCAAACAAGAGGCAAATACCA  
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AAAGAGTCTGGTTCTTGCCTGAAGAGAAAGCTAATGTTTTTCAAAGTCTAAGACAAAGAAGAGCCCA  
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TGGACTCTGAGACCTGTCATACATCCAGACCCAGGGCTAAGGAGGAGCAAGTTAGTAGTTTCTGTTTAGG  
GTCTGAAAGAAGAGCAGTATGAAAGTGGCCAAAGGCTACTTCTAAATCTATGCCAGTAGCTAAGGAG



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GATGAGGTCGTTATTGGGTCCTGGTTCTGGGCAGATGATGAAGAGATCAACTTACAGGCTGATGACGAGT  
CTATTTTTGGATCTTGGTTCTGGGGCACTGGTGAGAACAGCCTTAGATCTGTTGGAGTCAATTGTGAGAA  
GATGCCGAAGGCTGGAGAAAAAGGTTACTGATTCCTGGTTCTGGGCTGGAGATGTCAATACAGAGGCT  
GAGGTTGAAGAACAGGCCAGGTCGGCATCTACAAAAGCAACAATCTTTGTGCCTTGGTTTTGGTCTGAAA  
AGCAGCCGAACATGGATTTAGGGTCTGAACCTTGCTCAGATATCATGGCAGGAGCTGAGGAGGAGCCCAT  
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CTGAAGAGGAAGCAATTTTTGAGTCCTTGTATCTGGGCTGCAAAAAAGGACAGTATTCAAGCAGGAGTAAA  
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AGCTGAAACCATAGTGGGAGCCTGGTCTGGGAAGGAGATGAAGCTAGCTTTGAATCAAATCCTGTACCT  
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AAACGCCTACTTGTACTGATTCGGTGTGAGAATTTATGGACCTTATTAATAGGGAGGAGTCAAGTAAAA  
ACATTCAAATTGTTCTTGAATATTTGAGACTATCAGTAAACATATTCAAAAAGAGGCACTGTTTTCTGA  
TGATGATGATGATGAAGAAGAAGATGCAGTGAATCTTGAACCATTTATTTCTGCATTCCGTGAGGCT  
GAAAAAATTGCCAAGGAACAAAACGCAACCTGGCAATCAAAAAGCACCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG211939 representing NM\_001004359  
 Red=Cloning site Green=Tags(s)

MTRAEVEPGAQAKAENKPGDENANAAEVEPEAPLVVRPKVVRTQIMTGARPKVKPKGTPGARPKGETSTPG  
 GAYAKCKPKAIPAIARSKHDAQVWAPNKFREGESMSKMGKQCQISAADPPLLSDNSGMVAQAKCLPVDRELA  
 NMDTESIPKKANSPAGFQPSYGSEEGTNMGSWYRARPVPKGEAYENSDFKWADKPSGSPSFWNRDEASTR  
 FRPRKSMKANNRFRHMAKQEANTMPRHKNKQEFYNISSDSEDESGKTPWFWPDKTKVWSKPKKEEPNSR  
 SWFRSKKEVRVESTSGSECEENPTKSLFWSGEEAKSRSKPRARKGVNMRARQAKREACSDAMSGAIDTNK  
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 EVEEQARSASTKATIFVPWFWEKQPNMDLGSEPCSDIMAGAEIEPIIGPWFVAKVDNSVEAEVNSKSSL  
 EDEEPIRSPWFGAREQTDMKYAAAGIRYKMAEADANKKSCVWAKEPCLYPTNRECLKSTLGEKEDTVD  
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 EEEDIIGSWFWAGDEDRFEPAAKINEENKIASDEEDTVGSWFWGNEEASLEAVRRGTFESAPGIKEEKVT  
 GSWFWTDKAKVAGSQT VETGSETEEEAIFESLIWAAKKDSIQAGVKRVSKPKDDGNI AVGSWLWSSDKA  
 TKEAKTLIVSEASPENGKESVVKFGSRAKDEVINKTGSGDNCKHSTEAEITVGAWFWEGDEASFENPVP  
 VCKAVCEPESSAEHEPDPSSRRPQSWDEVTVQFKAGPWGKAGFPPMNPFRFPKEAASLFAEMFGGKPKLVE  
 VGPEREPEPQFPFYDPSYRSVREIREHLKARESAQPENWSCNCIQCELRIIGSEEFEEELLLMDRNRDPF  
 IHEISKIAMGMRGASQFTRDFIRNSGVVSLIEALLNYPSSRVTRFLENMVRMAPPYPDLNMIETYVCQI  
 CEDTFDYDLDSPDQLSGLTMIHTLTATSDYHKVVVNYLAGFFYLLNSGNTKTRFHVLKLLNLNLSENLMVT  
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 EKIAKELKRKPGNQKAP

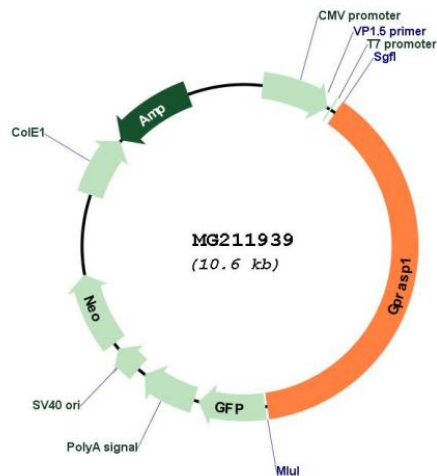
TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**


**ACCN:** NM\_001004359

**ORF Size:** 4041 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\\_001004359.2](#), [NP\\_001004359.1](#)

**RefSeq Size:** 5811 bp

**RefSeq ORF:** 4044 bp

**Locus ID:** 67298

**UniProt ID:** [Q5U4C1](#)

**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]