

Product datasheet for **MG211303**

Gprasp1 (BC058970) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gprasp1 (BC058970) 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:

>MG211303 representing BC058970
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACTAGGGCAGAGGTTGAGCCTGGTGCCAGGCAAAGGCTGAAAATAAGCCTGGGGATGAGAATGCTA
 ATGCTGCTGAAGTAGAGCCTGAAGCCCCATTGGTGGTCAGACCCAAGGTTAGGACACAAATCATGACTGG
 AGCAAGGCCCAAAGTGAAGCCTAAGGGTACCCCTGGAGCAAGACCTAAAGGTGAAACCAAGTACACCAAGT
 GGGGCATATGCCAAATGTAAACCTAAGGCAATCCCTATTGCTCGATCCAAGCATGATGCCAAAGTGTGGG
 CCCCAAAATAAGTTTCGTGGCGAGTCCATGTCAAAGATGGGAAAGCAATGTCAGATCAGTGTGCAGACCC
 TCCACTGCTCAGTAATGATTCTGGGATGGTTGCTCAAGCTAAGTGCCTGCCTGTAGATAGAGAATTGCT
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 AGGAGGGAACCAATATGGGGTCTGGTACCGTGCCAGGCTGTCCCAAAGGAGAGGCTATGAGAATTC
 CGATTTCAAATGGGCAGATAAACCTCAGGAAGTCCCTCTTTTGAATAGAGATGAAGCCAGTACAAGA
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 AACTCCCTGGTTCTGGCCAAAGACAAGACCAAGTCTGGTCTAAGCCAAAGAAGGCCAATAGTAGG
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 AATTGGGCCCTGGTTCTGGGCTAAAGTAGATAATAGTGTGGAGGCTGAAGTTAACAGTAAGTCTAGCCTT
 GAGGATGAGGAAGAACCATTAGATCCCCTTGGTTTGGGGCCAGAGAACAACCGATATGAAGTATGCAG
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 TTGGGTCAAGAGCAAAAGATGAGGTGATTAACAAGACTGGCAGTGGTACAATTGTATGCAAGGCCGTTT
 G

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG211303 representing BC058970
 Red=Cloning site Green=Tags(s)

MTRAEVEPGAQAKAENKPGDENANAAEVEPEAPLVVRPKVRTQIMTGARPKVKPKGTPGARPKGETSTPG
 GAYAKCKPKAIP IARSKHDAQVWAPNKF RGE SMSKMGKQCQISAADPPLL SNDSGMVAQAKCLPVDRELA
 NMDTESIPKKANSPAGFQPSYSGEEGTNMGSWYRARPVPKGEAYENSDFKWADKPSGSPSFWNRDEASTR
 FRPRKSMKANRRFRHMAKQEANTMPRHKNKQEFYNISSDSEDESGKTPWFWPDKTKVWSKPKKEEPNSR
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 KESWFLPEEKANVF SKSKTKKEPRTRAVPKEEVTKARASTKQEARPEEEVLVGAWFWDTQESTMADRIS
 IKTTFVEEEPIVGDWFWSEEEASVDSETCHTSRPRAKEEQVSSFCLGSGKKSSMESGPKATSKSMPVAKE
 DEVVIGSWFWADDEEINLQADDESIFGSWFWGTGENSLRSVGNCEKMPKAGEKEVTDSWFWAGDVNTEA
 EVEEQARSASTKATIFVPWFWEKQPNMDLGSEPCSDIMAGAE EEP IIGPWFWAKVDNSVEAEVNSKSSL
 EDEEPIRSPWFGAREQTD MYAAGIRYKPM AEADANKKSCVWAKEPCLYPTNRECLKSTLGEKEDTVD
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 EEEIIGSWFWAGDEDRFEPAAKINEENK IASEDEDTVGSWFWGNEEASLEAVRRGTFESAPGIKEEKVT
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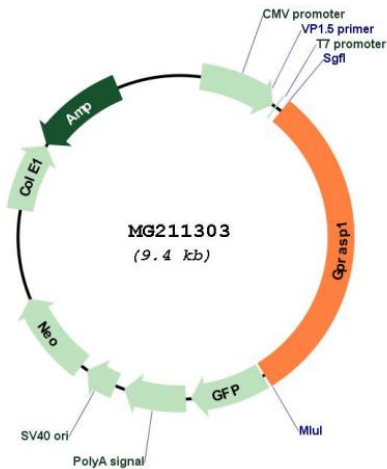
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: BC058970

ORF Size: 2873 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: [BC058970](#), [AAH58970](#)

RefSeq Size: 4570 bp

RefSeq ORF: 2873 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]