

Product datasheet for **MG216486**

Gprasp2 (NM_001163016) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gprasp2 (NM_001163016) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Gprasp2
Synonyms:	5330440H13Rik; GASP-2; GASP2; PrpI5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>MG216486 representing NM_001163016
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACTGGGGCAGAAGTTGAGACCGGTTCTCAGGCCAAGCCTGATAAGAAGCCTCAGGAAGAGGTGCGAG
 GTGGGGCTGAGAGAGAAAGTGAAGCCCCTCTGGTGGTCAGACCCAAAGTCAGGCCTCAGGCTCCAGCAAC
 AAGTGGTCTAGGCCAAAAGTAAACTAAATCTTCTCTCGGGCAAGGCCTAAAAGTAAACCCAGTCA
 GTGTCTGGAACAAGACACCGAATGAGTGGAGCAAGGCCGAGATCTGAGGCTCAATTAATGTCTGGGGCCA
 GGCCTAAAACCGATGCCAGGGCAGTAGGTGGTCTCGCCCTAAGACTGAGGCCAAGCCAATCCCAGGAGC
 AAGGCCTAAGGGTATGCCAGGCTTGGGCCACAGTGAAGTTGGAGCCGAGGCAATGCCACGTGCTGAG
 AGAGCACACTTATCTAATCTGTACATGGCCACCAGTCAATGTTGGTCTGCAACTGTTACTAAATCTA
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 AGACTAGTATCAGATCATGGCCCAGGGAAGAGGTGAACACTAGGTCCAGGCACAGGGCTAAACATCAGAC
 TAATGCCAGGTCGAAGCCAGATCCAAACAAGATCCCTATATTGATTCTTTGTCTGGGTCGAGGATGAG
 GCCAGTAACCCATTCTGCTTTTGGGCTGGAGAAAATACTAATGACATGTTTAGGGCCAGAGGCAGGGATG
 AGGCGAATGCCAGACCCAAGATCAGGACAAAGAGAGAGGACTATTTTGAAGATGAAGATGAGATCTATAA
 AGAGTCTGGCTTTTGCCTGGGGAAGAGGGTAATAGATTTAGGCGCCGAGACAAGGAAGAGCCTAATAAG
 ACCTTGAAAAATGAGAACGAAAAAGATGTTAAAAATGATGAAACAGTGAACAAGAGTCCAGGCTTGAGG
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 CCTCCTTGCCATGGGCTTGGGTTCCCTTCCCAAGACCTTTATCATTCTGAAGGGCTTCTGAAATA
 GTGAGGAAAAAGCCAAGAATGCAGAGCTTGGCGCAGAGGGGAAGAGCAGGACTCTGTGGCTCAGCGTGA
 TCTTCTGAACCCGAGTTTCCATTTAGTATGATCCCTCTTACCCTCAGTCCAGGAAATTCGCGAGCAT
 CTTAAGGCCAGGAAAGTGCACAGCCAGAGAATGGTCTTGCACCTGCATCCAGTGTGAGCTTAGAATTA
 GTTCTGAGAATTTGAGGAGCTTCTTTACTGATGGACAGGATTCGTGATCCTTTTATCCATGAGATAGC
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 TCACTGATTGAAGCCTTATGATTATCCTTCCCTCCCGAGTGGAGACTAATTTTTTGGAAAAATGGTTC
 ACATGGCTCCCCCTTATCCAAATCTAAACATGATTGAGACATTTATTTGTCAAGTGTGTGAGGAGACT
 TTCACATAGCGTGAATCCCTGAACAGCTAAGTGAATGAGGATGCTTAGACATCTCACTATAACTACT
 GACTATCACGACTGATTGCCAATACGTGTCTGGGTTTCTCGCCTTATTAACCACAGGCGATGCAAGAA
 CCAAGTTTCATGTTCTGAAAAATGCTGTTGAACTGTCTGACAATCCGATGGTGGCAAAAAAACTATTGAG
 TGCCAAAAGCTCTAATAATTTGTGGTCTCTTAAACATAGAGGAGACTAATGATAACATTCAGATTGTT
 ATTAATAATGTTTCAGAACATCAGTAATATTGTAATAAGTGGAGCGATGCTTTACTTGATGATGATTTCA
 GTCTTGAGCCGCTGTTTCTGCATTTTCATGAATTTGAAGAGCTAGCTAAACAGCTGCAGATCCAAATAGA
 CAATCAAATGATCCCGAGGAGGGACAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG216486 representing NM_001163016
 Red=Cloning site Green=Tags(s)

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MTGAEVETGSQAKPKKPQEEVAGGAERESEAPLVVRPKVVRPQAPATSGARPKTETKSSSRARPKTETQS
VSGTRHRMSGARPRSEAQLMSGARPKTDARAVGGARPKTEAKPIPGARPKGDAQAWAHSEFGAEAMPRAE
RAHLSNSVTWPPVNVGSATVTKSKLSMNTELASMGSEIFSGTQGQPGIEPWFPGPREEANMGSWCYPRPR
AREETS NESADENSTMSSFWTREETSIRSWPREEVNTSRHRRAKHQTNARSKPRSKQDPYIDSLGSEDE
ASNPFCFWAGENTNDMFRARGRDEANARPKIRTKREDYFEDEDEIYKESWLLPGEENRFRRRDKEEPNK
TLKNENEKDVKNDETVEQESRLEEEVIGSWFWAEQETNVEAGASAI CDAEPGAEEGAIGGSLFWTEEKP
SLGAVARDEVPESEEEALFGSWFWRDEACFDPNPTPVYTAKSRYRDPEEDLNLASRPKTWDEV TIEFK
PPCHGLGFPSRPFIIPEGASGNSEKAKNAELGAEGEEQDSVAQRDLPEPEFPFYDPSYRSVQEIREH
LKARESAQPENWCTCIQCELRISSAEFEELLLLMDRIRDPIHEIAKIAMGMRTASQFTRDFIRD SGVV
SLIEALMNYPSSRVRTNFLENMVHMAPPYPNLNMIETFCQVCEETLSHSVNSPEQLTGMRMLRHLTITT
DYHVLIANVYSGFLALLTTGDARTKFHVLKMLLNLSDNPMVAKKLFSAKALSIFVGLFNIEETNDNIQIV
IKMFQNISNIVKSGAMSLDDDFSLLEPLVSAFHEFEELAKQLQIQIDNQNDPEEGQ
  
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TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Cloning Scheme:



ACCN: NM_001163016

ORF Size: 2478 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_001163016.1](#), [NP_001156488.1](#)

RefSeq Size: 3776 bp

RefSeq ORF: 2481 bp

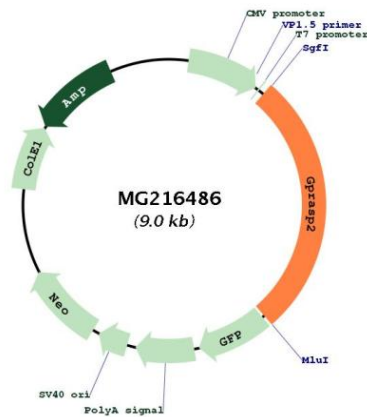
Locus ID: 245607

UniProt ID: [Q8BUY8](#)

Cytogenetics: X 57.3 cM

Gene Summary: May play a role in regulation of a variety of G-protein coupled receptors.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG216486