

Product datasheet for **RG206487**

RASGRP3 (NM_170672) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RASGRP3 (NM_170672) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RASGRP3
Synonyms:	GRP3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG206487 representing NM_170672
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGATCAAGTGGCCTTGGGAAAGCAGCAACATTAGATGAACTGCTGTGCACTTGCAATTGAGATGTTTG
 ATGACAATGGAGAGCTGGATAATAGTTATTTGCCAAGAATAGTTCTACTGATGCACCGATGGTATTTATC
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 CGATTAAGATCTGCTACTTTCATGAGGACTGGATTCTGAAGTTTCTGCAGAGTTAATTTGGATCTTG
 GTTTGATTCGATGACTGAGGAATTTGGGAAAGTACTAGTCAACTAGGATATGAAAAACACGTCAGCCT
 CATCGACATATCCAGCATTCTTCTATGACTGGATGAGAAGAGTCACACAGAGGAAAAAAGTATCCAAG
 AAGGGAAAAGCCTGTCTGCTGTTTGACCATCTGGAGCCCATTGAATTGGCTGAGCACCTCACTTTTCTGG
 AGCATAAATCTTTAGAAGGATCTCATTACTGATTACCAAAGCTATGTCATCCATGGCTGCCTGGAGAA
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 GAACCAACATGGATTTGATCAACCTGCTCAGCCTTCCCTGGACCTCTATCACACTGAAGATGATATTT
 ACAAACTGTCACCTGGTGGTGGAGCCTAGAAATTTCTAAATCGCAGCCTACCTCCCCTACGACGCCCAACA
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 CCTAATTAGTAAAGATGAAATGATGGCTTACTTCTGAGAGCTAAATCCCAACTACACTGTAAAATGGGA
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 AGACCTCCTGGTCTGGCCTGCAGGAGATTTGCCCGGGCGCCCTCCTTGAGCAGTGGTTCATGGGTCACTG
 CCTGGAAGCCCCTCGCTGCCCCAGCGCAGGATGAGGTGTTGAGTTCCTGGAGTCACTGCTGGACACA
 GGGATTTAGACAGCAGAGCCATCACACTGGTTACAGGCTTCTCGCAAGATCTCTGTGAGGCTACAGAG
 GGCCACCACCAGCCAGGCCACCCAGACTGAACCTGTCTGGTCAGAGGCTGGCTGGGGGGACTCGGGGTCC
 CACACCTTCCCTAAAATGAAATCCAAGTTCATGACAAAGCAGCAAAGGACAAAGGCTTTGCCAAATGGG
 AAAATGAGAAGCCAGGGTGCATGCTGGTGTGGATGTTGTAGACCCGGGCACGGAGTTTGAACCTTGACCA
 GGATGAAGGAGAAGACACAGGATGGTGAGGATGGC

ACGCGTACGCGGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG206487 representing NM_170672
 Red=Cloning site Green=Tags(s)

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MGSSGLGKAATLDELLCTCIEMFDDNGELDNSYLPRIVLLMHRWYLSSTELA EKLLCMYRNATGESCNEF
RLKICYFMRWILKFPFAEFNLDLGLIRMTEEFREVASQLGYEKHVSLEIDISSIPSYDWMRRVTQRKKVSK
KGKACLLFDHLEPIELAEHLTFLEHKSFRRIISFTDYQSYVIHGCLENNPTLERSIALFNIGISKWVQLMVL
SKPTPQQRAEVIITKFINVAKLLQLKNFNLTMAVVGGLSHSSISRLKETHSHLSSEVTKNWNEMTELVS
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EPNMDLINLLTSLDLYHTEDDIYKLSLVLEPRNSKSQPTSPPTPNKPVVPLEWALGVMPKPDPTVINKH
IRKLVESVFRNYDHDHDGYISQEDFESIAANFPFLDSFCVLDKDKDQGLISKDEMMAYFLRAKSQLHCKMG
PGFIHNFQEMTYLKPTFCEHCAGFLWGIKQGYCKDCGANCHKQCKDLLVLACRRFARAPSLSSGHGSL
PGSPSLPPAQDEVFEFPGVTAGHRDLDSRAITLVTGSSRKISVRLQRATTSQATQTEPVWSEAGWGDGSGS
HTFFPKMKSKFHDKAAKDKGFAKWENEKPRVHAGVDVDRGTEFELDQDEGEETRQDGEDG
  
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_170672

ORF Size: 2070 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_170672.3](#)

RefSeq Size: 4670 bp

RefSeq ORF: 2073 bp

Locus ID: 25780

UniProt ID: [Q8IV61](#)

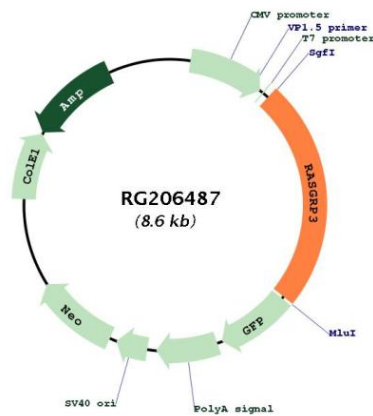
Cytogenetics: 2p22.3

Domains: RasGEFN, RasGEF, EFh, DAG_PE-bind

Protein Pathways: B cell receptor signaling pathway, MAPK signaling pathway

Gene Summary: The protein encoded by this gene is a guanine nucleotide exchange factor that activates the oncogenes HRAS and RAP1A. Defects in this gene have been associated with systemic lupus erythematosus and several cancers. [provided by RefSeq, Mar 2017]

Product images:



Circular map for RG206487