

Product datasheet for **MG209090**

Rapgef5 (BC046627) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rapgef5 (BC046627) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rapgef5
Synonyms:	mmr-gef, mKIAA0277, 4932413M22, GFR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG209090 representing BC046627
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGCAGCTCCCCTTTCGGGTCTTTGACCCCTCTAGAGAGGAAAGATTCGCGGGCTCTCAGAGC
 GCCAGCTGCCCTTGCCTACCTTCGATGTGCCTTATTTCAAATACATCGACGAAGAAGATGAGGACGATGA
 ATGGAGCAGCCGCTCACAGTCTTCCACGGAGGATGACTCGGTGGACTCTCTGCTCTCTGACAGATATGTG
 GTGGTGTCTGGTACCCCGGAGAAGATCTTGAGACACCTTTTGAATGACTTGCACCTGGCAGAGGTTGAGC
 ACAAGAAACAGAAACACTCCTTGATGACTTCTCCTCACGTACACCGTATTCATGACAACCTGATGACTT
 GTGCCAGGCGCTGCTAAGACACTATTCTGCCAAGAAGTATCAAGGGGAAGAAGAAAACCTCAGATGTCCTT
 TGTCCGGAAGCGCAAGGTCTTACATCTGGTTTCCAGTGGATTTCTCTGTACAAGGACTGGCTACATGAAG
 ATGAGCATTCAAAAATGTTTCTAAAGACCATATACAGGAACGTGTGGATGATGTCTATGATACCCGAT
 TCTTGAGAAAGAGCTGAAAGAGTTTCAGAAGATACTTGGCGTGTACCGCCGTCACTGTTGATGAATAC
 TCACCACAGAAGAAGAATAAGCCCTTTTCCACCAATTCAGTCTTAAGGAGAAGCTGGCTCCAGCACAGAG
 GAACTGTGGCAGAAACAGAGGAAATTTTTGCCACGTGTATAACGGAGCACTCTATATCAGTGTGAA
 GGCAAAAGTGTGAGTACAGCCAGGAGATCCTGAAGGTCGTGGCCGAGAAGCTGCAGCGTGCCAAAGAG
 GATCTGGCTCTGGTAGCCATTACATTCTCTGGAGAAAAGCATGAATTTACGCCAAATGACTTGGCCATTT
 CCAAAATCCCTGGAGGCATCTGGTCGGATATATGTCTACCGAAAAGATCTGGCTGACACTTTGAATCCTTT
 GGCAGAAAATGAGGAATCCAGCAAAGGTCAATGAGGATTTTGGGGATGAACACGTGGGACCTTGCTCTG
 GAATTAATGAGTTTTGATTGGAGTCTGTTCAATCAATCCACGAGCAAGAGCTGATCTACTTCACATTCA
 GCAGACAGGGGAACGGAGAGAATACTGTGAACCTCAGCCTTCTGCTCCAGAGATGTAACGAGGTCAGCA
 CTGGGTAGCCACAGAGATTTCTGCTCTGCAGCCAGCTAGGCAAGCGGTGCAGCTGGTGAAAAAATTCATC
 AAGATTGCAGCTCACTGCAAAGCCCAACAGAACCTAAACTCTTTCTTTGCCATCGTGATGGGTCTCAACA
 CCGCCTCTGTCAGCCGGCTATCACAGACCTGGGAGAAAATCCCTGGGAAGTTAAGAAGCTTTTCTCTGA
 ACTTGAGAGTTTAAACGGATCCTTCCCTAAACCACAAAGCCTACAGGGATGCGTTCAAAAAGATGAAGCCA
 CCAAAAATCCCTTTTATGCCCTTACTGCTTAAAGATGTAACGTTTATTTCATGAAGGAAATAAAACATTCT
 TGGATAATCTCGTCAATTTTAAAAGCTGCACATGATTGCAGACACTGTCCGAACCTGAGACACTGCAG
 GACTAACCAAGTTTGAAGTGACGTGTCTCAAAGGAGCAGCAAGAGCTGAAGTCTATGTCAACCACCTG
 TATGTCATCGACAGCCAGCAAGCCCTGTTCCAGCTCTCTCACAGGCTGGAGCCTCGAGCC

ACGCGTACGCGGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG209090 representing BC046627
 Red=Cloning site Green=Tags(s)

MGSSRLRVFDPPLERKDSAALSERQLPLPTFDVYFYKYIDEDEDEWSSRSQSSTEDDSVDSLSDRYV
 VVSGTPEKILEHLLNDLHLAEVQHKETETLLDDFLLTYTFVMTTDDLQALLRHYSAKKYQGEENSQV
 CRKRKVLHLVLSQWISLYKDWLHEDEHSMFLKTIYRNVLDDVYEPYLEKELKEFQKILGVYRRHTVDEY
 SPQKKNKALFHQFSLKENWLQHRGTVAETEEIFCHVYITEHSYISVKAKVSSTAQEIILKVVAEKLQRAKE
 DLALVAITFSGEKHEFPNDLAISSKLEASGRIYVYRKDLADTLNPLAENEESSQQRSMRILGMNTWDLAL
 ELMSFDWLSFNISHEQELIYFTFSRQNGENTVNL SLLLRQNEVQLWVATEILLCSQLGKRVQLVKKFI
 KIAAHCKAQQLNSFFAIVMGLNTASVSRLSQTWEKIPGKFKLSELESITDPSLNHKAYRDAFKMKMP
 PKIPFMPLLLKDVTFIHEGNKTFLDNLVNFELHMIADTVRTL RHCRTNQFGSDVSPKEQELKSYVNH
 YVIDSQALFELSHRLEPRA

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: BC046627

ORF Size: 1742 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: [BC046627](#), [AAH46627](#)

RefSeq Size: 2954 bp

RefSeq ORF: 1742 bp

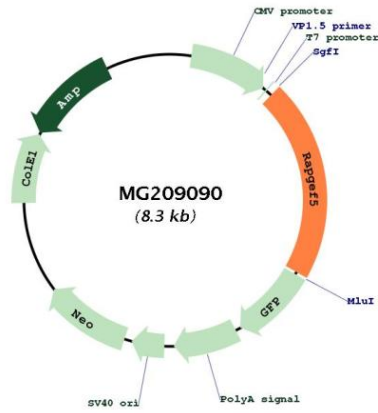
Locus ID: 217944

Cytogenetics: 12 F2

Gene Summary:

Guanine nucleotide exchange factor (GEF) for RAP1A, RAP2A and MRAS/M-Ras-GTP. Its association with MRAS inhibits Rap1 activation (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG209090