

Product datasheet for **MR209808**

Rap1gap (BC052065) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rap1gap (BC052065) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rap1gap
Synonyms:	1300019I11Rik; 2310004O14Rik; AI427470; ARPP-90; Gap; Rap1ga1; Rap1GAP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR209808 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGATGAACAGCGATGCTCCTCCCGCCACCCTCAAGACGGAGGAGGACTACATTCCCTACCCAAGTG
 TCCATGAGGTTTTGGGGCGAGAAGGGCCCTTCCCCTCATCCTACTGCCCCAGTTTGGGGGCTACTGGAT
 TGAAGGACCAACCATGAAATCAGCAGCCTCCCTGAGACAGAGCCGCTGCAGTCTCCACCACCAAGGTC
 AAGCTGGAGTGAACCCACAGCCGAATCTACCGGAAGCACTTCTGGGCAAGGAGCACTTCAATTACT
 ATTCACTGGACACTGCTCTCGGCCACCTGGTATTCTCGCTCAAGTATGATGTCATCGGGGATCAGGAGCA
 CCTGCGGCTGTTGCTTAGGACCAAGTGTGCGACCCACCACGATGTCATCCCCATCTCTGCCTCACCGAG
 TTCCCCAACGTGGTCCAGATGGCAAAGTGGTATGTGAGGATGTCAATGTGGATCGATTCTACCCGTGC
 TTTACCCTAAGGCCTCCAGGCTCATTGTCACCTTTGACGAACATGTTATCAGCAATAACTCAAGTTTGG
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 AACGACATCGTCGCTGTGGTCTTCCAGGACGAAAACACGCCCTTCGTGCCAGACATGATTGCATCCAAC
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 GAGTCCAGGAATTTCTGCTGACGAAGTTGATCAATGCCGAGTATGCGTGTTACAAAGCAGAGAAGTTTG
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 GCCATTGGCATCGAGAACATCCAGGAGGTTCCAGGAGAAGAGGGAGAGCCCTCCAGCTGGCCAGAAGACCC
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 CAGCAACAAGAACAGAGTGGAGTGGTGGTGGGAGACGGAAGTGTGCAGGGCTTCTCCAGATCTTCC
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 ACATGGCTGGACGACAGCGTGTGACACCAGCGGGGGCAGCTCCCAGTGAGGTGGCTCCCTCCTGCC
 CCCTTCCAGGCCTCACACGGTCAACCCACCCAGAGCTCGGCAAGTCCGGGGACCTGCCTGTCCCGAGA
 TCAAGATCCAACCTGAAACATCTGAGCAGCACACCCAGATGGGCTGCTAGCTGTACCTCATCAGCA
 GGCGGGAC

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR209808 protein sequence
Red=Cloning site Green=Tags(s)

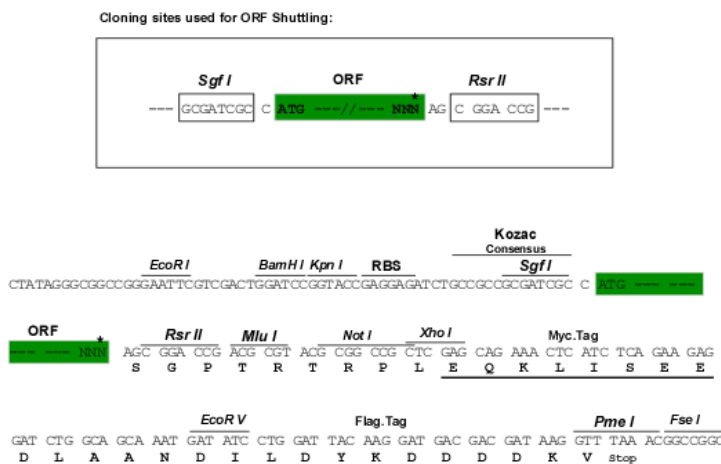
MDEQRCSFPPPLKTEEDYIPYPSVHEVLGREGPFPLILLPQFGGYWIEGTNHEISSLPETEPLQSPPTTKV
 KLECNPTARIYRKHF LGKEHFNYYSLDTALGHLVFLSKYDVIQDQHLRLLLRTKCRTHHDVIPISCLTE
 FPNVVQMAKLVCEDVNVDRLFYPVLYPKASRLIVTFDEHVISNNFKFVGIYQKLGQTSEELFSTNEESPA
 FVEFLFLGQKVKLQDFKGFGRGLDVHTGQTGTESVYCNFRNKEIMFHVSTKLPYTEGDAQQLQRKRHIG
 NDIVAVVFQDENTPFVPMIASNFLHAYVVVQAEGGPDGPLYKVSVTARDDVPFFGPPLPDPVAVFRKGP
 EFQEFLLTKLINAAYACYKAEFKLEERTRALLETLYEELHIHSQSMGLGGDDDKMENGSGGGGFFE
 SFKRVIRSRSQSDAMGLSNKKPNTVSTSHSGSFTPNNDLAKAAGISLIVPGKSPTRKKSPPFGSRRSS
 AIGIENIQEVQEKRESPPAGQKTPDSGHVSQEPKSENSSTQSSPEMPTTKNRVESAAQRTEVLQGFSSSS
 SSASSFTSVVEETEGVDGDDTGLHMAGRQREHHERGQLPSEVAPSCPPSQASHGHPTQTSASRGTLRVPR
 SRSNWKHLSSTHPRWAASCHLISRDD

SGPTRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-RsrII

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: BC052065

ORF Size: 1968 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: [BC052065](#), [AAH52065](#)

RefSeq Size: 3215 bp

RefSeq ORF: 1970 bp

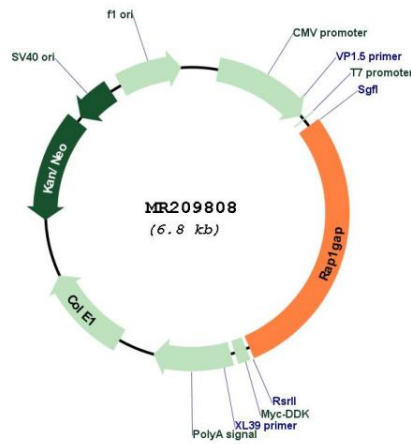
Locus ID: 110351

Cytogenetics: 4 70.02 cM

MW: 73.1 kDa

Gene Summary: GTPase activator for the nuclear Ras-related regulatory protein RAP-1A (KREV-1), converting it to the putatively inactive GDP-bound state.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209808