

Product datasheet for **MG218153**

Rap1gap2 (NM_001015046) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rap1gap2 (NM_001015046) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rap1gap2
Synonyms:	AU067654; Garnl4; Gm1561; mKIAA1039
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG218153 representing NM_001015046
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCTGGCGGGTCTGAAGGTCAAGAAGCAGGAGCTGGCCAACAGCTCGGATGTGACCCTCCAGATCGGC
 CACTGTCCCTCCTCTCACTGCTCCCCGACCATGAAGTCTGCGGAGTTCTTCGAGATGCTGGAGAAAAT
 GCAGGGAATCAAGCTTGAAGAGCAGAGGCCAGGACCCAGAAGAACAAGGATGACTATATCCCGTACCCC
 AGCATTGATGAGGTTGTGGAGAAGGGAGGCCCATACCCTCTGATCATCCTGCCTCAGTTTGGAGGCTACT
 GGATTGAGGACCCAGAGAACGTGGTACTCCAACGTCCTGGGCAGCAGCGTCTATGAGGAGGAGGAAGA
 GGACAGCCTGAGCCCAACACATTCGGCTACAAGCTCGAGTGCAGGGGTGAAGCCAGGGCCTACCGCAGG
 CACTTTCTAGGCAAGGATCATCTAACTTTTACTGTACTGGCAGCAGCCTGGGGAATTTGATCCTGTCCA
 TCAAATGCGAGGAAGCTGAGGGCATGGAGTACCTCGGATCATCCTCAGGTCCAACTGAAGACGGTGCA
 TGAGAGAAATCCCCTTGGCTGGATTGAGCAAGTTGCCAGTGTCCCTCAGATTGCCAAGGCTTTCTGTGAT
 GATGCAGTGGGGCTGAAATTC AACCTGTTTTGTACCCCAAGGCCTCCAGATGATTGTGTCTATGATG
 AGCATGATGTCAACAATACTTTCAAGTTTGGGGTCATTTATCAAAAAGCCAGGCAGACCCCTGGAGGAGGA
 GCTATTTGGGAATAATGAGGAGAGCCAGCTTTCAAGGAGTTTTGGATCTCCTGGGAGACCATCACA
 CTGCAGGATTTCAAAGGTTTCCGAGGAGGCCTGGATGTGACCCACGGACAGACAGGGGTGGAGTCCGGTGT
 ACACCACTTTCCGGGACCGGGAGATCATGTTCCATGTGTCTACCAAGCTGCCCTTACGGATGGTGACAC
 CCAGCAGCTGCAGAGAAAGCGGCATATTGGGAATGATATCGTGGCCATCATCTTTCAAGAAGAAAATACA
 CCGTTTTGTCCCAGATATGATCGCATCAACTTCTTACATGCCTACATTGTCGTTCCAGGCTGATAACCCCG
 GCACAGAGACCCCATCTACAAGGTATCAGTCACTGCTAGGGAAGATGTGCCTGCCTTTGGTCCCCTCT
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 GAGAATGCTTGCTGCAAGTCGGACAAGTTCCGCAAGCTGGAGGACCGGACCCGGGCTGCTCTCTGGACA
 ACCTTCATGATGAACTCCACACACACTCAGGTCATGCTAGGCATGGGCCCGGAGGAGGACAAGTTCGA
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 ACCATGGTGGGTAGCCAGAGGAAGCTGCATGGCGGGAACCTCCCTGGCAGCCTCAGCGGGGGCATTGTCC
 ACAACAGCATGGAGGTCACCAAGACCACCTTCTCGCTCCAGTGGCCGACGAACCGGAAGAACCAGTC
 ACGGAGCCCATCAAGCGGGGTCGGGACTTCTCCCGCCTGCACTCGGGCTCTGAAGGCCAGGGAGAC
 AGCCGGACACGATGTGACAGTGCCTCCAGCACCCCAAAACCCAGATGGCGGACACTCTTCTCAGGAGA
 TAAAGTCTGAGACCTCGTCAAATCCCAGCTCTCCAGAAATTTGTCCCAACAAGAGAAGCCCTTCATCAA
 GTTGAAGGAGAATGGCCGTGCCAACATCTCCCGCTCCTCTCCAGCACACAGCAGTTCAGCAGCACAGCA
 GGGGAGGGCGAGGCCATGGAGGAGTGTGACAGTGGGAGCAGCCAGCCATCCACAACCTCGCCCTTAAAGC
 AGGAGGTGTTTGCTACAGCCATCCCCGAGCAGCGAGAGCCCGCCTGGGGGCTGCCGCCACGCCCAT
 CATCATGAGCCGGAGTCCACAGATGCCAAAAGCAGAACTCCCCGAGGTCCAACCTGAAATTCGCTTT
 GATAAACTCAGCCATGCTAGCTCCAGTGGGGTAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG218153 representing NM_001015046
Red=Cloning site Green=Tags(s)

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MLAGLKVKKQELANSSDVTLPDRPLSPPLTAPPTMKSAEFFEMLEKMQGIKLEEQRPQPKNKDDYIPYP
SIDEVVEKGGPYPLIILPQFGGYWIEDPENVTPTSLGSSVYEEEEEDSLSPNTFGYKLECRGEARAYRR
HFLGKDHLNFYCTGSSNLNLILSIKCEEAEGMEYLRIILRSKLTKVHERIPLAGLSKLPVSPQIAKAFCD
DAVGLKFNPLVYPKASQMIVSYDEHDVNNTFKFGVIYQKARQTL EEELFGNNEESPAFKEFLDLLGDTIT
LQDFKGFRRGLDVTHGQTGVESVYTTFRDREIMFHVSTKLPFTDGDQQLRKRHIGNDIVAIIFQEENT
PFVPMIASNFLHAYIVVQADNPGTETETPSYKVSVTAREDVPAFGPPLPSPPVFQKGAEFRELLTKLTNA
ENACKSDKFAKLEDRTAAALLDNLHDELHHTQVMLGMGPEEDKFENGHGGLFESFKRAIRVRSHSME
TMVGSQRKLHGGNLPGLSGGIVHNSMEVTKTTFSPVAAATAKNQSRSPIKRRSGLFPRLHSGSEGQGD
SRTRCDSASSTPKTPDGGHSSQEI KSETSSNPSSPEICPNKEKPFIKLKENGRANISRSSSTSSFSTA
GEGEAMEECDSGSSQPSTTSPFKQEVFA YSPSPSSESPSLGAAATPIIMSRSPDASRNSPRSNLKRFR
DKLSHASSSAGH
    
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001015046

ORF Size: 2136 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_001015046.3](#)

RefSeq Size: 6410 bp

RefSeq ORF: 2139 bp

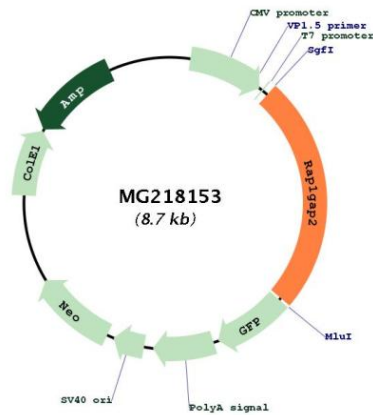
Locus ID: 380711

UniProt ID: [Q5SVL6](#)

Cytogenetics: 11 B5

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 MG218153