

## Product datasheet for **MR218153**

### **Rap1gap2 (NM\_001015046) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Rap1gap2 (NM_001015046) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rap1gap2
Synonyms:	AU067654; Garnl4; Gm1561; mKIAA1039
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MR218153 representing NM\_001015046  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGGCGGGTCTGAAGGTCAAGAAGCAGGAGCTGGCCAACAGCTCGGATGTGACCCTCCAGATCGGC  
 CACTGTCCCTCCTCTCACTGCTCCCCGACCATGAAGTCTGCGGAGTTCTTCGAGATGCTGGAGAAAAT  
 GCAGGGAATCAAGCTTGAAGAGCAGAGGCCAGGACCCAGAAGAACAAGGATGACTATATCCCGTACCCC  
 AGCATTGATGAGGTTGTGGAGAAGGGAGGCCCATACCCTCTGATCATCCTGCCTCAGTTTGGAGGCTACT  
 GGATTGAGGACCCAGAGAACGTGGTACTCCAACGTCCTGGGCAGCAGCGTCTATGAGGAGGAGGAAGA  
 GGACAGCCTGAGCCCAACACATTCGGCTACAAGCTCGAGTGCAGGGGTGAAGCCAGGGCCTACCGCAGG  
 CACTTTCTAGGCAAGGATCATCTAACTTTTACTGTACTGGCAGCAGCCTGGGGAATTTGATCCTGTCCA  
 TCAATGCGAGGAAGCTGAGGGCATGGAGTACCTCGGATCATCCTCAGGTCCAACTGAAGACGGTGCA  
 TGAGAGAAATCCCCTTGGCTGGATTGAGCAAGTTGCCAGTGTCCCTCAGATTGCCAAGGCTTTCTGTGAT  
 GATGCAGTGGGGCTGAAATTC AACCTGTTTTGTACCCCAAGGCCTCCAGATGATTGTGTCTATGATG  
 AGCATGATGTCAACAATACTTTCAAGTTTGGGGTCATTTATCAAAAAGCCAGGCAGACCCCTGGAGGAGGA  
 GCTATTTGGGAATAATGAGGAGAGCCAGCTTTCAAGGAGTTTTGGATCTCCTGGGAGACACCATCACA  
 CTGCAGGATTTCAAAGGTTTCCGAGGAGGCCTGGATGTGACCCACGGACAGACAGGGGTGGAGTCGGTGT  
 ACACCACTTTCCGGGACCGGGAGATCATGTTCCATGTGTCTACCAAGCTGCCCTTACGGATGGTGACAC  
 CCAGCAGCTGCAGAGAAAGCGGCATATTGGGAATGATATCGTGGCCATCATCTTTCAAGAAGAAAATACA  
 CCGTTTTGTCAGATATGATCGCATCAACTTCTACATGCCTACATTGTCTGTTCCAGGCTGATAACCCCG  
 GCACAGACCCCATCCTACAAGGTATCAGTCACTGCTAGGGAAGATGTGCCTGCCTTTGGTCCCCTCT  
 GCCAAGCCCGCCTGTTTTCCAGAAGGGCGCAGAATTCGGGAGTTTCTGCTCACCAAGCTCACGAACGCA  
 GAGAATGCTTGCTGCAAGTCGGACAAGTTCCGCAAGCTGGAGGACCGGACCCGGGCTGCTCTCTGGACA  
 ACCTTCATGATGAACTCCACACACACTCAGGTCATGCTAGGCATGGGCCCGGAGGAGGACAAGTTCGA  
 GAATGGGGCCATGGAGGATTCTGGAATCTTTAAGAGGGCCATCCGTGTGCGCAGCCATTCCATGGAG  
 ACCATGGTGGGTAGCCAGAGGAAGCTGCATGGCGGGAACCTCCCTGGCAGCCTCAGCGGGGCATTGTCC  
 ACAACAGCATGGAGGTCACCAAGACCACCTTCTCGCTCCAGTGGCCGACGAACCGGAAGAACCAGTC  
 ACGGAGCCCATCAAGCGGGGTCGGGACTTCTCCCGCCTGCACTCGGGCTCTGAAGGCCAGGGAGAC  
 AGCCGGACACGATGTGACAGTGCCTCCAGCACCCCAAAACCCAGATGGCGGACACTCTTCTCAGGAGA  
 TAAAGTCTGAGACCTCGTCAAATCCCAGCTCTCCAGAAATTTGTCCCAACAAGAGAAGCCCTTCATCAA  
 GTTGAAGGAGAATGGCCGTGCCAACATCTCCCGCTCCTCCTCCAGCACCAGCAGTTCAGCAGCACAGCA  
 GGGGAGGGCGAGGCCATGGAGGAGTGTGACAGTGGGAGCAGCCAGCCATCCACAACCTCGCCCTTAAAGC  
 AGGAGGTGTTTGCTACAGCCATCCCCGAGCAGCAGAGCCCCAGCCTGGGGGCTGCCGCCACGCCCAT  
 CATCATGAGCCGGAGTCCACAGATGCCAAAAGCAGAACTCCCCGAGGTCCAACCTGAAATTCGCTTT  
 GATAAACTCAGCCATGCTAGCTCCAGTCCGGGTCAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR218153 representing NM\_001015046  
Red=Cloning site Green=Tags(s)

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MLAGLKVKKQELANSSDVTLPDRPLSPPLTAPPTMKSAEFFEMLEKMQGIKLEEQRPQPKNKDDYIPYP
SIDEVVEKGGPYPLIILPQFGGYWIEDPENVTPTSLGSSVYEEEEEDSLSPNTFGYKLECRGEARAYRR
HFLGKDHLNFYCTGSSSLGNLILSIKCEEAEGMEYLRIILRSKLTKVHERIPLAGLSKLPVSPQIAKAFCD
DAVGLKFNPLVYPKASQMIVSDEHDVNNTFKFGVIYQKARQTLEELFGNNEESPAFKEFLDLLGDTIT
LQDFKGFRRGLDVTHGQTGVESVYTTFRDREIMFHVSTKLPFTDGDQQLQRKRHIGNDIVAIIFQEENT
PFVPMIASNFLHAYIVVQADNPGTETPSYKVSVTAREDVPAFGPPLPSPPVFQKGAEFREFLLTKLTNA
ENACCKSDKFAKLEDRTAALLDNLHDELHTHTQVMLGMGPEEDKFENGGHGGFLESFKRAIRVRSMSME
TMVGSQRKLHGGNLPGLSGGIVHNSMEVTKTTFSPVAAATAKNQSRSPKRRSGLFPRHLSGSEGGQGD
SRTRCDSASSTPKTPDGGHSSQEISETSSNPSSPEICPNKEKPFIKLKENGRANISRSSSTSSFSSTA
GEGEAMEECDSGSSQPSTTSPFKQEVFAYSPPSSSESPSLGAAATPIIMSRSPDASRNSPRSNLKFRR
DKLSHASSSAGH
    
```

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9047\\_f05.zip](https://cdn.origene.com/chromatograms/mm9047_f05.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001015046

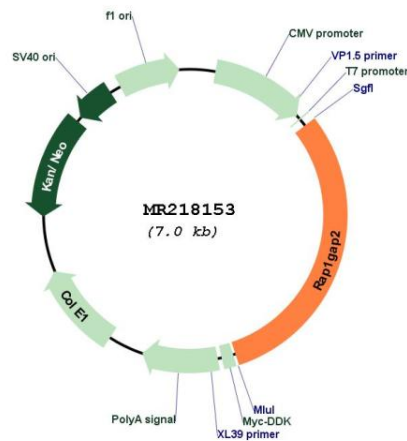
**ORF Size:** 2136 bp

**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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_001015046.3</u>
<b>RefSeq Size:</b>	6410 bp
<b>RefSeq ORF:</b>	2139 bp
<b>Locus ID:</b>	380711
<b>UniProt ID:</b>	<u>Q5SVL6</u>
<b>Cytogenetics:</b>	11 B5
<b>MW:</b>	78.7 kDa
<b>Gene Summary:</b>	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 MR218153