

Product datasheet for **RC213068**

RAB3GAP1 (NM_012233) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAB3GAP1 (NM_012233) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RAB3GAP1
Synonyms:	P130; RAB3GAP; RAB3GAP130; WARBM1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC213068 representing NM_012233 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGCCGACAGTGAGCCGAATCCGAGGATTTGAGATCACGGACTTCACCACTGCCTCGGAATGGG
AAAGGTTTATTTCCAAAGTTGAAGAAGTCTTGAATGACTGGAACTGATTGGAACTCTTTGGGAAAGCC
ACTCGAAAAGGTATATTTACTTCTGGCACATGGGAAGAGAAATCAGATGAAATTCCTTTGCTGACTTC
AAGTTCTCAGTCACTCATCATTATCTGTACAAGAGTCCACTGATAAAGAAGGAAAGGATGAGTTATTAG
AGGATGTTGTTCCACAATCTATGCAAGATTTGCTGGGTATGAATAATGACTTTCCTCAAGAGCACATTG
CCTGGTAAGATGGTATGGGCTACGTGAGTTCGTGGTATTGCCCTGCTGCACACAGTGACGCTGTTCTC
AGCGAATCTAAGTGCAACCTTCTCTGAGTTCGTTTCTATTGCCTGGGAAACACTGGCTGTCAGGTGC
CACTCTTTGTGCAAAATCACCACAAATGGCGAAGAATGTATGTAGGAGAAATGTCAAGGTCCTGGTGTACG
AACTGATTTGCAAAATGGTTCATCTTAGAAAAGTGCCAAATCAGTACACTCACTTATCAGGTCTGCTGGAT
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ATGACTTCAAGATTGGCAGCAGTATTTTGGCCTCAGCAACCTCCAGACATAGATGCCCTGTAGGAGG
AGAAGTTGGAGGCTTGGAGTTTGGCAAGTTACCATTTGGTGCCTGCGAAGATCCTATTAGTGAATCCAT
TTAGTACTACATGGCCTCATCTGACCGAAGGGATCATTGTGGATAATGATGTTTATTCTGATTTGGATC
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TGTCACAGAAATTTTAAAATTTGCCGTCGAAAGGAGTCAACTGATGAGATTCTTGGACGATCTGCATTT
GAGGAAGAAGGCAAGAAACTGCTGATATAACTCATGCTTTGTCAAAATGACAGAGCCGGCATCAGTTC
CAATTCATAAATATCAGTTTCAAATATGGTACACACTGCAAAGAAGAAAATCCGAAAACACAGAGGTGT
AGAGGAGTCACCGCTAAATAATGATGTTCTTAATACTATTCTCCTGTTCTTATTCCTGATGCTGTTTCT
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CAATTTTACCATGGAGGTTGAAAGGAGTGGCACACCTCTGGCAGGAATTTGTTCTTGAATGCGTTC



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CGATGGGAAAACAACTTTCTGATTCCAGGATTAGCAAGTGGACCCAGATCTGAGGTGTTGTTACTGC
 ATCAGAACTACAGATGTTAAATGTTGTATTGAAAGAAAGAGGCACGTGATGAGGGGAAAAAGACAAG
 TGCTTCAGATGTCACTAATATATATCCAGGGGATGCTGGAAAAGCAGGAGACCAGTTGGTCCAGATAAT
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 GAGGAGGAATGAAGAGAATGGGCTCCCGAGGAAAGAGGCAGAACTCCGTGTCAGACTTCCCACCCC
 CTGCTGGCCGGGAATTCATTTGCGCACCACTGTGCCGCGCCTGCTCCCTACTCCAAAGCTCTGCCTCA
 GCGGATGTACAGTGTCTCACCAAAGAGGACTTACAGTTGCAGGTGCCTTTTATCAGATACTTCTCTTC
 TTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAGGTTTAA

Protein Sequence:

>RC213068 representing NM_012233
 Red=Cloning site Green=Tags(s)

MAADSEPESEVFEITDFTTASEWERFISKVEEVLNDWKLIGNSLGKPLEKGIFTSGTWEEKSDEISFADF
 KFSVTHHYLVQESTDKEGKDELLEDVVPQSMQDLLGMNDFPPRAHCLVRWYGLREFVVIAPAAHSDAVL
 SESKCNLLSSVSIALGNTGCQVPLFVQIHHKWRRMYVGECQGPVTRDFEMVHLRKVPNQYTHLSGLLD
 IFKSKIGCPLTLPVPSIAIRFTYVLQDWQYFWPQQPPIDALVGGVGGLEFGKLPFGACEDPISELH
 LATTWPHLTEGIIVDNDVYSDLDPIQAPHWSVRVKAENPQCLLDGDFVTEFFKICRRKESTDEILGRSAF
 EEEGKETADITHALSKLTPASVPIHKLVSNSMVHTAKKKIRKHRGVEESPLNNDVLTILLFLFPDAVS
 EKPLDGTSTDNNPPSESEDYLNQFKSAPSDSLTYKLALCLCMINFYHGGLKGVHLWQEFVLEMRF
 RWENNFLIPGLASGPPDLRCCLLHQKLQMLNCCIERKKARDEGKTSASDVTNIYPGDAGKAGDQLVPDN
 LKETDKEKGEVGSWDSWDSSEEEFFECLSDTEELKGNQESGKKGPKEMANLRPEGRLYQHGLTLLH
 NGEPLYIPVTQEPAPMTEDLLEEQSEVLAKLGTSAEGAHLRARMQSACLLSDMESFKAANPGCSLEDFVR
 WYSPRDYIEEEVIDEKGNVVLKVELSARMKIPSNMWVEAWETAKPIPARRQRRLLFDDTREAQKVLHYLAI
 QKPADLARHLLPCVIHAAVLKVEEESLENISSVKKIIKQIISHSSKVLHFPNPEDKKLEEIIHQITNVE
 ALIARARSLKAKFGTEKCEQEEKEDLERFVSCLEQPEVLTGAGRGHAGRIIHKLFVNAQRAAAMTPP
 EEELKRMGSPEERRQNSVDFPPPAGREFILRTTVPRPAPYSKALPQRMYSVLTKEDFRLAGAFSSDTSF
 F

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_012233

ORF Size: 2943 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_012233.3](#)

RefSeq Size: 4918 bp

RefSeq ORF: 2946 bp

Locus ID: 22930

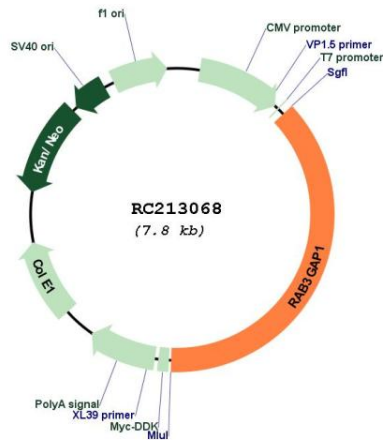
UniProt ID: [Q15042](#)

Cytogenetics: 2q21.3

MW: 110.5 kDa

Gene Summary: This gene encodes the catalytic subunit of a Rab GTPase activating protein. The encoded protein forms a heterodimer with a non-catalytic subunit to specifically regulate the activity of members of the Rab3 subfamily of small G proteins. This protein mediates the hydrolysis of GTP bound Rab3 to the GDP bound form. Mutations in this gene are associated with Warburg micro syndrome. Alternate splicing results in multiple transcript variants.[provided by RefSeq, Feb 2010]

Product images:



Circular map for RC213068