

Product datasheet for **RC214983**

RAB3GAP2 (NM_012414) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAB3GAP2 (NM_012414) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RAB3GAP2
Synonyms:	p150; RAB3-GAP150; RAB3GAP150; SPG69; WARBM2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC214983 representing NM_012414 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCTGCTCCATTGTCCAGTTCTGCTACTTCCAGGACCTCCAGGCCGCCGGGACTTCCTTTCTCCTC
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TGGTTGGGAGCATGGGAAGAAAATGAACCACAAGAACCTGAAGAAGAAGGAAATCTTGCAAAACACAA
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GTGGGAAGCACTGCAGGCTGCTGTATCCTGGCTATAAAATAATGGGTTTAAATAATGTTACCAAGTCAGA
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC214983 representing NM_012414
 Red=Cloning site Green=Tags(s)

MACSIVQFCYFQDLQAARDFLFPHLREEILSGALRRDPSKSTDWEDDGWGAWEENEPQEPEEEGNTCKTQ
 KTSWLQDCVLSL SPTNDLMVIAREQKAVFLVPKWKYSDKGKEEMQFAVGWGSGLNVEEGECVTSALC IPL
 ASQKRSSTGRPDWTCIVVGFTSGYVRFY TENGVL LLAQLLNEDPVLQKCRTEYIPRHPGVTEQNEELSI
 LYPAAI VTI DGFSLFQSLRACRNQVAKAAASGNENIQPPPLAYKKWGLQDIDTIIDHASVGI MTLSPFDQ
 MKTASNIGGFNAAIKNSPPAMSQYITVGSNPF TGFYALEGSTQPLL SHVALAVASKLTSALFNAASGWL
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 AALLKTKSPNLDLVETEIKELILDIKYPATKKQALE SILASERLPFSCLRNIQTLMDTLKSQELESVDE
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 SLLL SVL SKEKDILDKPQSI CCLHTML SLLSKMKVAIDETWDSQSVSPWWQQMRTACIQSENNGAALLS
 AHVGH SVA AQISNMTEKKFSQTVLGADSEAL TDSWEALSLDTEYWKLLKQLEDCLILQTL LHSKGNTQ
 TSKVSSLQAEPLPRLSVKLLLEGKGGIADSVAKWIFKQDF SPEVLKLANEERDAENPDEPKEGVNR SFL
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 NGIALMMWNTFLVKRFS AATYLMDKVKGSPKDR LCRRDVGM S D T AMT SFLG SCLDLLQILMEADVSRDEI
 QVPVLDTEDAWLSVEGPI SIVELALEQKHIHYPLVEHHSILCSILYAVMRFSLKTVKPLSLFDSKGN AF
 FKDLT SIQLLPSGEMDPN F ISVRQQFLLKV VSAAVQAQHSATKVKDPT EEA TPTPF GKDDWPALAVDLA
 HHLQVSE DVRRHYV GEL YNYGVDHLGEEAILQVHDKEVLASQLLVLTGQRLAHALLHTQTKEGMELLAR
 LPPTLCTWLKAMPQDLQNTVEPIATTAKLVNKVIELLPEKHGQYGLALHLIEAVEAISLPSL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6612_h04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



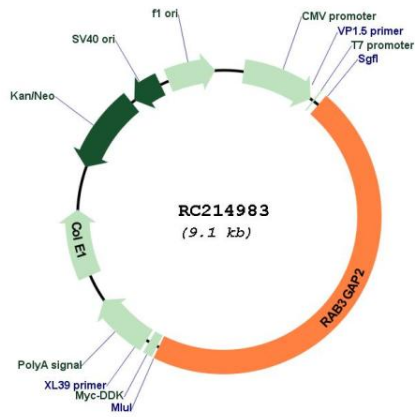
* The last codon before the Stop codon of the ORF

ACCN: NM_012414

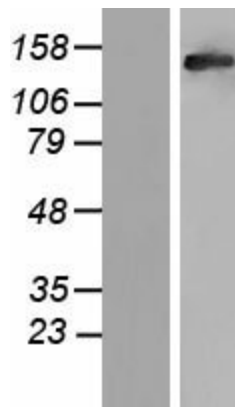
ORF Size: 4179 bp

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:	<ol style="list-style-type: none">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_012414.4
RefSeq Size:	5129 bp
RefSeq ORF:	4182 bp
Locus ID:	25782
UniProt ID:	Q9H2M9
Cytogenetics:	1q41
MW:	155.8 kDa
Gene Summary:	The protein encoded by this gene belongs to the RAB3 protein family, members of which are involved in regulated exocytosis of neurotransmitters and hormones. This protein forms the Rab3 GTPase-activating complex with RAB3GAP1, where it constitutes the regulatory subunit, whereas the latter functions as the catalytic subunit. This gene has the highest level of expression in the brain, consistent with it having a key role in neurodevelopment. Mutations in this gene are associated with Martsolf syndrome.[provided by RefSeq, Oct 2009]

Product images:



Circular map for RC214983



Western blot validation of overexpression lysate (Cat# [LY415773]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC214983 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).