

Product datasheet for SC115425

RAB3GAP2 (NM_012414) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAB3GAP2 (NM_012414) Human Untagged Clone
Tag:	Tag Free
Symbol:	RAB3GAP2
Synonyms:	p150; RAB3-GAP150; RAB3GAP150; SPG69; WARBM2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC115425 sequence for NM_012414 edited (data generated by NextGen Sequencing)

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ATGGCCTGCTCCATTGTCCAGTTCTGCTACTTCCAGGACCTCCAGGCCGCCCGGGACTTC
CTCTNNNNNNNCCTGCGGGAGGAGATCCTCAGCGGCGCCTTGCGGAGGGACCCAGTAAA
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CTCATTGAAGCTGTGGAAGCCATATCTTCTCTTTATGA

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Clone variation with respect to NM_012414.3

65 t=>n;66 t=>n;67 c=>n;68 c=>n;69 t=>n;70 c=>n;71 a=>n

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_012414 unedited
 GGGTCAACATTTGTATACGACTCACTATAGGCGGCCGCGATTTCGGCACGAGGGTGGCGGC
 CGCAGTGGGGTGGAGGGGCGAGGCGTGGTGAGGTAAGGTGAGTGCCGTAGTGGGGTTCC
 CTGGAGCCATGGCCTGCTCCATTGTCCAGTTCTGCTACTTCCAGGACCTCCAGGCCGCCC
 GGGACTTCCTCTTTCCTCACCTGCGGGAGGAGATCCTCAGCGCGCCTTGCGGAGGGACC
 CCAGTAAATCAACAGACTGGGAAGATGATGGTTGGGAGCATGGGAAGAAATGAACCAC
 AAGAACCTGAAGAAGAAGGAAATACTTGCAAAACACAAAAAATTCCTGGCTCCAAGATT
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 TATTTCTAGTGCCAAAATGGAAATATAGTGATAAAGGAAAGGAAATGCAATTTGCTG
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 ATCCCGCGTGACTGAGCAGAATGAAGAGTTGAGTATCTTATATCCAGCTGCCATTGTGA
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 CTGCAGCATCAGGCGATGAGAACATACCACCACCACCATTAGCTNATAAGAAATGGGGTC
 TACAC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_012414 unedited
 NTTTTTTTTAGCTATGGACCGGCCGCGCATNCTANGATCGAGTTTTTTTTTTTTTTTTT
 TTTACATAAGTTTTACAAGATAATACATTTTACAGTGACCTGATGTGGATACAACCTTG
 CAACTTGGCAAAAAGCAAATCTTAACCTACATTATAATTAATTTGCTGCATTTTACACAT
 CTCTGATTCTCAATTTTGGCACGTACAACAGGTTAAGGGTTCTATTTAGTGTCCCTTCT
 GATGAATATGATGATCTTGAACCATTCCTCCTCCTCAAGCACGGTCATCCTCCTCTGAT
 GGCAACAGCAGAACCTCTGGGAAAGGAACCTTTCGGTATCCAGAACTCCAGGTGGCAGC
 CCAGTGTGGGATTTGGAGCATGACAACAAAGGCATTTTCTCAACATTTACTAAAGGAGAG
 TGGGGTGTCTATACGCTACTGATGGGGACTGTACATGAACACATTTAAATTGAATTACA
 ACAACATTTTAGATAGGAAATATAGAATCTTATAAGAACATAATCTAAATTATAACCAAT
 TTTAAATAGCAAAAGTTTAAACAATAAAGCTACTTAAGTGTTTGAATTAGAAATAAACAGTA
 AAACATCTGTATTAATTATAACAGAGTTGACATTTGTTTATATTTATCTTCAGTATTAA
 CCAAAGGAGTGAATTTAGCCAGGTTGCACTTTTAAAAAGTTGTATATACTTTTATTTA
 TTTTACAAAAGGAAAAAAAAAAGAATACTTTCCCATAAAATCCAGGTCTTACTATGTA
 AAATTACCATGCACTACTTCATGTTATAATCATAATTTTAGACTATTTCCAGTAGGTAAA
 GTGTCATAAAGAAGGAGAGATATGGCCTCCACAGACTTCATGAGGTGTAAGGGCTAGACA
 CTATGGCCATGTTTTTCTGTAAAC

Restriction Sites:

NotI-NotI

ACCN:

NM_012414

Insert Size:

6250 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	<u>NM_012414.2, NP_036546.2</u>
RefSeq Size:	5129 bp
RefSeq ORF:	4182 bp
Locus ID:	25782
UniProt ID:	<u>Q9H2M9</u>
Cytogenetics:	1q41
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]