

Product datasheet for **SC114700**

RAB21 (NM_014999) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAB21 (NM_014999) Human Untagged Clone
Tag:	Tag Free
Symbol:	RAB21
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC114700 sequence for NM_014999 edited (data generated by NextGen Sequencing) ATGGCTGCGGCCGGCGGGCGGGCGGGCGGGCGGGCGGGCCGAGCCTACTCGTTC AAGGTGGTGCCTGCTGGGGGAAGGCTGCGTGGGGAAGACGTCGCTGGTGCTGCGCTACTGC GAGAACAAGTTTAACGACAAGCACATCACCCTCTGCAGGCATCATTCTTAACAAAGAAG TTAAATATTGGTGGGAAAAGAGTAAACCTTGCCATATGGGATACGGCAGGTC AAGAGAGA TTCCATGCATTGGGTCCAATTTACTACAGAGATTCAAAATGGAGCGATTTTAGTTTATGAC ATAACAGATGAAGATTCTTTTCAGAAGGTA AAAAACTGGGTCAAAGAATTACGGAAAATG TTGGGAAATGAAATCTGTTTATGTATAGTTGGTAATAAAATAGACTTG GAAAAGGAGAGA CATGTTTCCATTCAAGAAGCAGAGTCGTATGCAGAATCTGTGGGAGCAAAACATTATCAT ACTTCAGCCAAACAGAACAAAGGAATTGAGGAACTTTTCTTGACCTTTGTAAAAGGATG ATAGAAAACAGCACAAGTGGATGAGAGAGCAAAAAGCAATGGCTCTAGTCAGCCGGGAACT GCAAGGCGAGGTGTACAGATTATTGATGATGAACCTCAAGCCCAGACCAGTGGTGGAGGG TGCTGTTCTTCTGGATAA

Clone variation with respect to NM_014999.2



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_014999 unedited GAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCCTTCCAGGCCTCGCCCC AGGAGGGCGTGGGGACAGCGCCCGGGTCCGGCGGGCCGGGGCGGTGGGGGCTGAGCCGGC CGTGGCTGTGAAGGCGCTGCCGCGGCTGTCCGGAGGGCGGCGGACACTCGGGCTCGGGC GGCCGGGAAGCGACGGGATGGCTGCGGCCGGCGGGCGGCGGGCGGGCGGGCGGGCGG GCCGAGCTACTCGTTCAAGTGGTGTCTGCTGGGGGAAGGCTGCGTGGGAAGACGTGCG TGGTGTGCGCTACTGCGAGAACAAGTTAACGACAAGCACATCACCCTCTGCAGGCAT CATTCTTAACAAAGAAGTTAAATATTGGTGGGAAAAGAGTAAACCTTGCCATATGGGATA CGGCAGGTCAAGAGAGATTCCATGCATTGGGTCCAATTTACTACAGAGATTCAAATGGAG CGATTTTATGTTTATGACATAACAGATGAAGATTCTTTTCAGAAGGTAAAAAACTGGGTCA AAGAATTACGGAAAATGTTGGGAAATGAAATCTGTTTATGTATAGTTGGTAATAAAATAG ACTTGGAAAAGGAGAGACATGTTTCCATTCAAGAAGCAGAGTCGTATGCAGAATCTGTGG GAGCAAAACATTATCATACTTCAGCCAAACAGAACANAGGAANTGAGGAACTCTTCTTG ACCTTTGTNAAAGGATGATAGANACAGCACCAGTGGATGAGAGAGCAAAAGGCATGGCTC TAGTCAGCCGGGAACTGCANGGCGAGGTGTACANGATATTGATGATGAACCTCAAGCCCA GACCGTGGTGGAGGGTGCTGTTCTTCTGGATACCTGTCACGCTAAAAAATTAAGACAAGA CAACTGTGGATCATGCCCTCACAATGAGACTGCATAATCCAGTCCATAT</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_014999 unedited CGGCCGCAATCTAGNATCGAGTTTTTTTTTTTTTTTTTTTTTAAAGTTACACAAATATAATTC TTTAATAAATCTTTCCAGTGTCCACTATATCTGCATTACATGTAATGTTTCCATCCACAG AAATCAGGATAGTTCCTGTAAAATGAAACAGAACATTCTGTGTTTCATCTCTGGCAAGCA ATGAACAAATAGAATGCTCACAAGGATCTAAAAGTGTCTGCCTCAGGAACATAAACTA CGTGCTATATGAATGAGTCTTGGTTAACTGGCTACTATCTGGGATCTCTTCTCTGCTCA TACCCTGAACCCATCTCTTATAAAGCCTATGAGAAAATGAAAGCTATTGCAGAAGTGAA ATTCAACATGAGCCACCCAAATCTTCTAAGGTAAACCATTCTAAAGCAAAATCAGCAGAA GTCATCTCTTCTATAATAACAAACAAAAAACC AAAAGGCAAAATGCTACTGCTCAATCAT CAGATGAACTCACAGAGGCAAAAATATGTGACAACAGCAATAATTCAAGTAAAGTATGTA TGAAAATTTAAACACGCCATGTTCAAGTTAAGACAGAAGTGAAGGGGAGCTATGATCTTT ATATTAGTCAAAAAGCTAGGCATAATCACC AAATGTTAATTCACCTTACAGTCATCAAT GAGACTATTGTATATATTTTTGCACCTTGCCTTGTAAGCAGATAAAAATTTTAAATAT GTAATTTACAATGTATTTTACCAGCTCAGCATAACAGGATGTATACAGATTATATCAAAGT AGTAGACAGTTACGGGCCTGTGCAAACCTGCAAATAGTACTTCAGATATCTGCTATTT AAAACAAAACAGTTNNGCTGTTAGAGNTGATACATTTCACTACCCAAATACAAGGGCTGC AAAATGTACCTTNCACAACTATATTAGTATAATAAAGATTGATTGAAGAATTAATGAGAC TTTAGTAGTCTTCTCAGCTATAT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_014999
Insert Size:	2440 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: [NM_014999.1](#), [NP_055814.1](#)

RefSeq Size: 2630 bp

RefSeq ORF: 678 bp

Locus ID: 23011

UniProt ID: [Q9UL25](#)

Cytogenetics: 12q21.1

Domains: ras, RAN, RAS, RHO, RAB

Protein Families: Druggable Genome

Gene Summary: This gene belongs to the Rab family of monomeric GTPases, which are involved in the control of cellular membrane traffic. The encoded protein plays a role in the targeted trafficking of integrins via its association with integrin alpha tails. As a consequence, the encoded protein is involved in the regulation of cell adhesion and migration. Expression of this gene is associated with a poor prognosis for glioma patients. This gene is downregulated by the tumor suppressor miR-200b, and miRNA-200b is itself downregulated in glioma tissues. [provided by RefSeq, Nov 2015]