

Product datasheet for **SC127520**

RAP2B (NM_002886) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAP2B (NM_002886) Human Untagged Clone
Tag:	Tag Free
Symbol:	RAP2B
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC127520 sequence for NM_002886 edited (data generated by NextGen Sequencing)

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ATGAGAGAGTACAAAGTGGTGGTCTGGGCTCGGGCGGCGTGGGCAAGTCCGCGCTCACC
GTGCAGTTCGTGACGGGCTCCTTCATCGAGAAGTACGACCCGACCATCGAAGACTTTTAC
CGCAAGGAGATTGAGGTGGACTCGTCGCCGTCGGTGTGGAGATCCTGGATACGGCGGGC
ACCGAGCAGTTTCGCGTCCATGCGGGACCTGTACATCAAGAACGGCCAGGGCTTCATCCTG
GTCTACAGCCTCGTCAACCAGCAGAGCTTCCAGGACATCAAGCCCATGCGGGACAGATC
ATCCGCGTGAAGCGGTACGAGCGCGTGCCCATGATCCTGGTGGGCAACAAGGTGGACCTG
GAGGGTGAGCGCGAGGTCTCGTACGGGGAGGGCAAGGCCCTGGCTGAGGAGTGGAGCTGC
CCCTTCATGGAGACGTGCGCCAAAAACAAGCCTCGGTAGACGAGCTATTTGCCGAGATC
GTGCGGCAGATGAACTACGCGGCGCAGCCCAACGGCGATGAGGGCTGCTGCTCGGCCTGC
GTGATCCTCTGA
```

Clone variation with respect to NM_002886.2



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_002886 unedited
 NNGGGCGTCACATTTGTATACGACTCATATAGGCGGCCGNAATTCGCACCAGCCGCGG
 CCGTGGGCGCACGTTCCGCGGGGACTCATGCCACGCGCGTCCCGGCCGACGCGCAATTA
 GCAGCCACCTCCGAGCCCGCCGCCACCGCCTCCCTGCCCTCCCGGGCTGCCGAGCTAG
 GAGCTCCAGCCGTCGCTCGCGCAGGCTGCGGGCATTGTCTCTCGTTCCGCGCCCGGG
 CTGCTACTGCCGCGGACTGCTGCGGGGCCGACCCGACCCAGGGATACGCTGCC
 GCCGCGCGGCCGCGCCCGCCGCGCCCTCGTTCCGTTGTTTCCGCCCTGCGTTCTCT
 GGTTGCTCTCTCTGGTTTTTCTGCTAGCTGAGGAAGGGGAAGAGAAGTCCAGCCG
 CCAAGCCAGCCTTCCCGCGCGCAGCCCGACGGGGCCGCGGAGGCGCGGAGAGC
 GCTGACGGAGCCATGAGAGAGTACANAGTGGTGGTGTGGGCTCGGGCGCGTGGCAAG
 TCCGCGCTCACCGTGCAGTTCGTGACGGGCTCCTTCATCGAGAAGTACGACCCGACCATC
 GAAGACTTTTACCGCAGGAGATTTGAGTGGACTCGTCGCGTCTGCTGGAGATCCTG
 GATACGGCGGGCACGGAGCAGTTCGCGTCCCTGCGGGACCTGTACATCAAGAACGGCCA
 GGGCTTACCTGGTCTACAGCCTCGTCAACCAGCAAAGCTTCCAGGACATTAAGCCAT
 GCGGGACCAGATCATTGCGGTGAAGCGGTACCAGCGCTTGCCCTTGATCCTGGTGGGCAC
 CAGGTTGAACTTGAGGGTGGACCCAGGCTTCTACGGGGAGGCAAGGCCCGGCCTA
 AGAATGGAACC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_002886 unedited
 GGGGGCCNNNNCCNTNTTNCNNNNNNNTTATCNTAGNCCNCGNCCGCATACNA
 NGATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTGGTCTTTAAAAAGACATTTGT
 ATTTAAAGTCTTAAAATGAAGAAGAAATGATTAACGCATGAAATTTAAAAATTACAATTA
 GTTAGAATTGGTACATCACACAGTAAAATTTTGTCTTTGCTTCTGGAGAACACCCTA
 CAACAGGTAATTTAAAAATTTAAAAATAATATGAAAGGGGAGCTAAATACCTGAAAATTT
 AAACAAAATGAAGCAAAAAAAGGAAACAATTCATTGCAAGAGATGGAATTAACATTT
 TAAAGGCTGAAAATAATAAGAAATTCATAAACAACAGGCCCTATTGTCTGGCTCCTT
 CAGAAAGATTACTGAAAGGAAACTGGGAAGTGGTTTGGGGAATAGCAGATTCTGGGATAT
 GGTGGGAAGTTCACAGGTTGGCACCGGCTGGAACAGCTGAGTTTTGAAGGCACTCTGCAG
 ACACAGGGGTGCTGGGGGCCCTGATCACATTTACAAAGTCTTTGACTGTATTTTTTAA
 AGCTAGTCATTAATAATCGTTACTGCCACCAAAAAACAAAAACAAGGCTAAACTTNA
 NCACACACCCCNAAACACATACACACACCCCTTGTACACACGAAAATGTGCAATCT
 GTGACATTTTTTTTACAGCTGATAAAAAAAAATACTACCCATTTTCCCGAGACTTCCC
 TTTGATACACGAGGTAACAATAAGATTTTTTTCCCAATTCAAGCGGACCCTTCTGG
 CCCCCCACTTGNTTGGCCATCAAGGTAACAAGTCCAGTTCCAATGGGCAATCTTTAAA
 ATTGGATCACATGGACCANGAATCCAATTTGCATAAACATNCCTAAAATACCAATCAGT
 CTTGGGGTTGCCCTCTCAGACTGGCAAAAAGGAAACCCCATCTAAATTTCCACTACTT
 CTGAANAAGNNGNAAANNAGTTTTNCTTTCTCCTGC

Restriction Sites:

NotI-NotI

ACCN:

NM_002886

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_002886.2](#), [NP_002877.2](#)

RefSeq Size: 6237 bp

RefSeq ORF: 552 bp

Locus ID: 5912

UniProt ID: [P61225](#)

Cytogenetics: 3q25.2

Domains: ras, RAS, RHO, RAB

Protein Families: Druggable Genome

Gene Summary: This intronless gene belongs to a family of RAS-related genes. The proteins encoded by these genes share approximately 50% amino acid identity with the classical RAS proteins and have numerous structural features in common. The most striking difference between the RAP and RAS proteins resides in their 61st amino acid: glutamine in RAS is replaced by threonine in RAP proteins. Evidence suggests that this protein may be polyisoprenylated and palmitoylated. [provided by RefSeq, Jul 2008]