

## Product datasheet for **SC114605**

### **RAP1B (NM\_015646) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	RAP1B (NM_015646) Human Untagged Clone
Tag:	Tag Free
Symbol:	RAP1B
Synonyms:	K-REV; RAL1B
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC114605 sequence for NM_015646 edited (data generated by NextGen Sequencing)

```
ATGCGTGAGTATAAGCTAGTCGTTCTTGGCTCAGGAGGCGTTGGAAAGTCTGCTTTGACT
GTACAATTTGTTCAAGGAATTTTTGTAGAAAAATACGATCCTACGATAGAAGATTCTTAT
AGAAAGCAAGTTGAAGTAGATGCACAACAGTGTATGCTTGAAATCTTGGATACTGCAGGA
ACGGAGCAATTTACAGCAATGAGGGATTTATACATGAAAAATGGACAAGGATTTGCATTA
GTTTATTCCATCACAGCACAGTCCACATTTAACGATTTACAAGACCTGAGAGAACAGATT
CTTCGAGTTAAAGACACTGATGATGTTCCAATGATTCTTGTGGTAATAAGTGTGACTTG
GAAGATGAAAGAGTTGTAGGGAAGGAACAAGGTCAAAATCTAGCAAGACAATGGAACAAC
TGTGCATTCTTAGAATCTTCTGCAAAATCAAAAATAAATGTTAATGAGATCTTTTATGAC
CTAGTGCGGCAAATTAACAGAAAACTCCAGTGCCTGGGAAGGCTCGCAAAAAGTCATCA
TGTCAGCTGCTTTAA
```

Clone variation with respect to NM\_015646.4



[View online »](#)

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_015646 unedited  
 GTCAGAATTTGTATACGACTCCTATAGGGCGGCCGCGATTTCGGCACGAGGCCAGATTCAG  
 GCGTGTAAACCAGCCGGAGCGCGCGGCAGCGGCAGGACCGCCGTGGCGCCTAGAGTAGC  
 GACCCGGGGGAGCGCGGGGCGACGCTGGCTGCAGGGACCCGGTGACAGCGTGAGAGGTA  
 CTAGGTTTTGACAAGCTTGCATCATGCGTGAGTATAAGCTAGTCGTTCTTGGCTCAGGAG  
 GCGTTGGAAGTCTGCTTTGACTGTACAATTTGTTCAAGGAATTTTGTAGAAAAATACG  
 ATCCTACGATAGAAGATTCTTATAGAAAGCAAGTTGAAGTAGATGCACAACAGTGTATGC  
 TTGAAATCTTGGATACTGCAGGAACGGAGCAATTTACAGCAATGAGGGATTTATACATGA  
 AAAATGGACAAGGATTTGCATTAGTTTATTCCATCACAGCACAGTCCACATTTAACGATT  
 TACAAGACCTGAGAGAACAGATTCTTCGAGTTAAAGACTGATGATGTTCCAATGATTC  
 TTGTTGGTAATAAGTGTGACTTGGAAAGTGAAAGAGTTGTAGGGAAGGAACAAGTCAAA  
 ATCTAGCAAGACAATGGAACAACGTGCATTCTTAGAATCTTCTGCAAAATCAAAAATAA  
 ATGTTAATGAGATCTTTTATGACCTAGTGCAGCATTAAACAGANAACTCCAGTGCCTG  
 GGAAGGCTCGCNAAGTATCATGTGCTGCTTTAATACTACATGCATTGTAGCTC  
 TGAGCCAGTTCTGAAAGACTGTTGCCCATTCACAGTCCAGCATTCCAACCTTTGTTAAA  
 CCTACCAACATCCTAAATGGACTCTCCCTGTGGTGGTACCCTTTAGGAGGCGGATGAAAG  
 CTACATTATCAGTTTGCACATTCTAAT

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_015646 unedited  
 ACCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT  
 TTGGCAAGTAATTATAATGCAAGCCCTTGCATGGCAATCCAAATTTATTGAACTACTGAT  
 GCTAAGTTATACAAAATGCACCACTTTAATTAAGGCTTTTAGTTTACATTTGGCCACCT  
 CAAAGTAGTTGTAACATTAGGTTGGTCAATTTAAATACTGGGGCTCCCTGTTGGATAGAC  
 ACACAATCTTTACATCCAAACATTAATGCATACAAAGCAACAAGGCATTGTTAAATAAAA  
 CAGCAATAGTTACTGCAATTAGGCCTTGTGACCAATTACATATGATTAAATTACTTCC  
 CACATTCACATCCACAGTACTCGTCCACCATTTAACATCTCAACCAAAACGTTACACATG  
 TGAAACAATCACTAACAGGCAAAAATACTAAACCTGTATATTTGGTATTGCAAAATACACT  
 TATGCATGAGCAAGCAAGGATTACAGTGAGAATCTACAGCTGCAGAAGCCTGAAAATG  
 ATTTACAAAATTTGTTAAATCATTAAAAAATGTTTAAAAATATACACTTCTTGTGTAG  
 ACCCCCACTGTACACACGACTATAAACATTGTTCCCTATGTAAACAAAAAAGGAAACAT  
 ATAATAAGAGATTTGAAAAGTCTGGACATTTCCCTTCCAACAGATATTAAGGCAACGTC  
 TTTAATCTAAGACATTATACTGAAAGGACTATCATGTTTTTAAGACCAGATCACCCGTCT  
 CACAGTTTTTTTTAAAATTAAAAAAATTATAAGCTGTGGTAATCAAAGCGCTTATTTTT  
 GACAATAATAATGACCTTGAATTTCTTAAAAAATAACAATAGCCTACAGTTTTAAAGAA  
 CGAAGTTTCTGGATAGTCTTATAGGGAGCCTTGCACCTTTCTTTATTATGCAAC

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_015646

**Insert Size:**

2140 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_015646.4</a> , <a href="#">NP_056461.1</a>
<b>RefSeq Size:</b>	2126 bp
<b>RefSeq ORF:</b>	555 bp
<b>Locus ID:</b>	5908
<b>UniProt ID:</b>	<a href="#">P61224</a>
<b>Cytogenetics:</b>	12q15
<b>Domains:</b>	ras, RAN, RAS, RHO, RAB
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Chemokine signaling pathway, Focal adhesion, Leukocyte transendothelial migration, Long-term potentiation, MAPK signaling pathway, Neurotrophin signaling pathway, Renal cell carcinoma
<b>Gene Summary:</b>	<p>This gene encodes a member of the RAS-like small GTP-binding protein superfamily. Members of this family regulate multiple cellular processes including cell adhesion and growth and differentiation. This protein localizes to cellular membranes and has been shown to regulate integrin-mediated cell signaling. This protein also plays a role in regulating outside-in signaling in platelets. Alternate splicing results in multiple transcript variants. Pseudogenes of this gene are found on chromosomes 3, 5, 6 and 9. [provided by RefSeq, Oct 2011]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Variants 1 and 2 encode the same isoform (1).</p>