

Product datasheet for **SC127673**

RAP1A (NM_002884) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RAP1A (NM_002884) Human Untagged Clone
Tag:	Tag Free
Symbol:	RAP1A
Synonyms:	C21KG; G-22K; KREV-1; KREV1; RAP1; SMGP21
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_002884, the custom clone sequence may differ by one or more nucleotides

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ATGCGTGAGTACAAGCTAGTGGTCCTTGGTTCAGGAGGCGTTGGGAAGTCTGCTCTGACAGTTCAGTTTG
TTCAGGGAATTTTTGTTGAAAAATATGACCCAACGATAGAAGATTCTACAGAAAGCAAGTTGAAGTCGA
TTGCCAACAGTGTATGCTCGAAATCCTGGATACTGCAGGGACAGAGCAATTTACAGCAATGAGGGATTTG
TATATGAAGAACGGCCAAGGTTTTGCACTAGTATATTCTATTACAGCTCAGTCCACGTTTAACTGACTTAC
AGGACCTGAGGGAACAGATTTTACGGGTTAAGGACACGGAAGATGTTCCAATGATTTTGGTTGGCAATAA
ATGTGACCTGGAAGATGAGCGAGTAGTTGGCAAAGAGCAGGGCCAGAATTTAGCAAGACAGTGGTGAAC
TGTGCCTTTTTAGAAATCTTCTGCAAAGTCAAAGATCAATGTTAATGAGATATTTTATGACCTGGTCAGAC
AGATAAATAGGAAAACACCAGTGAAAAGAAGAAGCCTAAAAAGAAATCATGTCTGCTGCTCTAG
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_002884 unedited NGGTTACATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACCAGGGGATCGTC AGTATTTAAACAGATCACATCATGCGTGAGTACAAGCTAGTGGTCCTTGGTTTCAGGAGGC GTTGGGAAGTCTGCTCTGACAGTTTCAGTTTGTTCAGGGAATTTTGTGAAAAATATGAC CCAACGATAGAAGATTCCTACAGAAAGCAAGTTGAAGTCGATTGCCAACAGTGTATGCTC GAAATCCTGGATACTGCAGGGACAGAGCAATTTACAGCAATGAGGGATTTGTATATGAAG AACGGCCAAGGTTTTGCACTAGTATATTCTATTACAGCTCAGTCCACGTTTAAACGACTTA CAGGACCTGAGGGAACAGATTTTACGGGTTAAGGACACGGAAGATGTTCCAATGATTTTG GTTGGCAATAAATGTGACCTGGAAGATGAGCGAGTAGTTGGCAAAGAGCAGGGCCAGAAT TTAGCAAGACAGTGGTGAAGTGTGCCTTTTTTAGAATCTTCTGCAAAGTCAAAGATCAA TGTTAATGAGATTTTTATGACCTGGTCAGACAGATAAATAGGAAAACACCAGTGGAAAA GAAGAAGCCTAAAAAGAAATCATGTCTGCTGCTCTAGGCCATAGTCAGCAGCAGCTCTG AGCCAGATTACAGGAATGAAGAACTGTTGCCTAATTGGAAGTCCAGCATTCCAGACTT CAAAAATAAAATCTGAGAGGCTTCTNCTGTTTATATATATGTGAAGATTTAGATCTTATA TGGTNNNGCACAGTCCTGGAGAAAAAATGCTCTGTGTTNTCTCTGGAAAATAGACATA GTTTTTCTTTGCATAGCAGTATTACAGATGTGAAATATACTGACTCTATATGATATAC AAAGAGCATGGTGCATTTCAATGTTAGATATGCTCTATATCAATGC
Restriction Sites:	NotI-NotI
ACCN:	NM_002884
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:	<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_002884.2 , NP_002875.1
RefSeq Size:	1812 bp
RefSeq ORF:	555 bp
Locus ID:	5906
UniProt ID:	P62834
Cytogenetics:	1p13.2
Domains:	ras, RAN, RAS, RHO, RAB
Protein Families:	Druggable Genome

Protein Pathways: Chemokine signaling pathway, Focal adhesion, Leukocyte transendothelial migration, Long-term potentiation, MAPK signaling pathway, Neurotrophin signaling pathway, Renal cell carcinoma

Gene Summary: This gene encodes a member of the Ras family of small GTPases. The encoded protein undergoes a change in conformational state and activity, depending on whether it is bound to GTP or GDP. This protein is activated by several types of guanine nucleotide exchange factors (GEFs), and inactivated by two groups of GTPase-activating proteins (GAPs). The activation status of the encoded protein is therefore affected by the balance of intracellular levels of GEFs and GAPs. The encoded protein regulates signaling pathways that affect cell proliferation and adhesion, and may play a role in tumor malignancy. Pseudogenes of this gene have been defined on chromosomes 14 and 17. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2014]
Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 4. Variants 1-5 encode the same protein.