

Product datasheet for RC215248

RAP1A (NM_002884) Human Tagged ORF Clone

Product data:

OriGene Technologies, Inc.

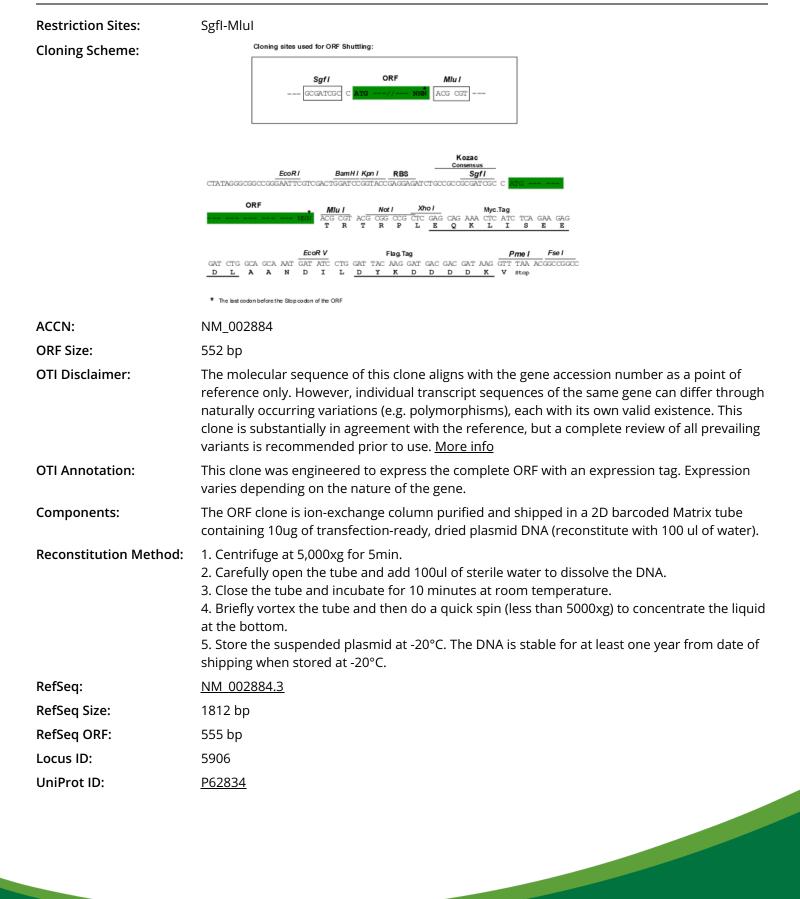
9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product Type:	Expression Plasmids
Product Name:	RAP1A (NM_002884) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RAP1A
Synonyms:	C21KG; G-22K; KREV-1; KREV1; RAP1; SMGP21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	<pre>>RC215248 representing NM_002884 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C
	ATGCGTGAGTACAAGCTAGTGGTCCTTGGTTCAGGAGGCGTTGGGAAGTCTGCTCTGACAGTTCAGTTTG TTCAGGGAATTTTTGTTGAAAAATATGACCCAACGATAGAAGATTCCTACAGAAAGCAAGTTGAAGTCGA TTGCCAACAGTGTATGCTCGAAATCCTGGATACTGCAGGGACAGAGCAATTTACAGCAATGAGGGATTTG TATATGAAGAACGGCCAAGGTTTTGCACTAGTATATTCTATTACAGCTCAGTCCACGTTTAACGACTTAC AGGACCTGAGGGAACAGATTTTACGGGTTAAGGACACGGAAGATGTTCCAATGATTTGGTTGG
	ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT ACAAGGATGACGACGATAAG GTTTAA
Protein Sequence:	>RC215248 representing NM_002884 <mark>Red=</mark> Cloning site Green=Tags(s)
	MREYKLVVLGSGGVGKSALTVQFVQGIFVEKYDPTIEDSYRKQVEVDCQQCMLEILDTAGTEQFTAMRDL YMKNGQGFALVYSITAQSTFNDLQDLREQILRVKDTEDVPMILVGNKCDLEDERVVGKEQGQNLARQWCN CAFLESSAKSKINVNEIFYDLVRQINRKTPVEKKKPKKKSCLLL
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Chromatograms:	https://cdn.origene.com/chromatograms/mk6268_f05.zip



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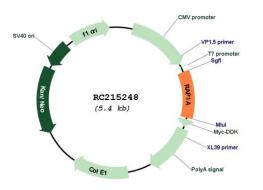
SAP1A (NM_002884) Human Tagged ORF Clone – RC215248 RAP1A (NM_002884) Human Tagged ORF Clone – RC215248



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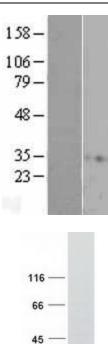
	(NM_002884) Human Tagged ORF Clone – RC215248
Cytogenetics:	1p13.2
Domains:	ras, RAN, RAS, RHO, RAB
Protein Families:	Druggable Genome
Protein Pathways:	Chemokine signaling pathway, Focal adhesion, Leukocyte transendothelial migration, Long- term potentiation, MAPK signaling pathway, Neurotrophin signaling pathway, Renal cell carcinoma
MW:	20.8 kDa
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]

Product images:



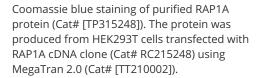
Circular map for RC215248

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25 · 18 · 14 · Western blot validation of overexpression lysate (Cat# [LY419031]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215248 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



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