

Product datasheet for **RC207542**

RACGAP1 (NM_013277) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RACGAP1 (NM_013277) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RACGAP1
Synonyms:	CYK4; HsCYK-4; ID-GAP; MgcRacGAP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide
Sequence:

>RC207542 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGATACTATGATGCTGAATGTGCGGAATCTGTTTGAGCAGCTTGTGCGCCGGGTGGAGATTCTCAGTG
AAGGAAATGAAGTCCAATTTATCCAGTTGGCGAAGGACTTTGAGGATTTCCGTAAAAAGTGGCAGAGGAC
TGACCATGAGCTGGGAAATACAAGGATCTTTTGATGAAAGCAGAGACTGAGCGAAGTGCTCTGGATGTT
AAGCTGAAGCATGCACGTAATCAGGTGGATGTAGAGATCAAACGGAGACAGAGAGCTGAGGCTGACTGCG
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AAAAGACTATCAACCATTGATGAATCTGGTTCATTTTATCAGATATCAGCTTTGACAAGACTGATGAAT
CACTGGATTGGGACTCTTCTTTGGTGAAGACTTCAAACGAAGAAGAGAGAAAAGAGGGCGCTCTACTAG
CCGACAGTTTGTGATGGTCCCCTGGACCTGTAAGAAAACCTGTTCCATTGGCTCTGCAGTAGACCAG
GGGAATGAATCCATAGTTGCAAAAACACTACAGTACTGTTCCCAATGATGGCGGGCCCATCGAAGCTGTGT
CCTACTATTGAGACTGTGCCATATTGGACCAGGAGCCGAAGGAAAACAGGTAATTTACAACCTTGGAACAG
TGACTCCACCCTGAACAGCAGGCAGCTGGAGCCAGAAGTGAACAGACAGTGTGGGCACGCCACAGAGT
AATGGAGGGATGCGCCTGCATGACTTTGTTTCTAAGACGGTTATTAACCTGAATCCTGTGTTCCATGTG
GAAAGCGGATAAAATTTGGCAAATATCTCTGAAGTGTGAGACTGTGCGTGTGGTCTCTCATCCAGAATG
TCGGGACCGCTGTCCCCTCCCTGCATTCCCTACCTGATAGGAACACCTGTCAAGATTGGAGAGGGAAATG
CTGGCAGACTTTGTGTCAGACTTCTCCAATGATCCCCTCCATTGTTGTGCATTGTGTAATGAGATTG
AGCAAAGAGGCTGACTGAGACAGGCCTGTATAGGATCTCTGGCTGTGACCGCACAGTAAAAGAGCTGAA
AGAGAAATTCCTCAGAGTGAAGAACTGTACCCCTCCTCAGCAAAGTGGATGATATCCATGCTATCTGTAGC
CTTCTAAAAGACTTTCTTCGAAACCTCAAAGAACCTTCTGACCTTTTCGCTTAACAGAGCCTTTATGG
AAGCAGCAGAAATCACAGATGAAGACAACAGCATAGCTGCCATGTACCAAGCTGTTGGTGAAGTGCCTCA
GGCCAACAGGGACACATTAGCTTTCTCATGATCACTTGCAGAGAGTGGCTCAGAGTCCACATACTAAA
ATGGATGTTGCCAATCTGGCTAAAGTCTTTGGCCCTACAATAGTGGCCATGCTGTGCCCAATCCAGACC
CAGTGACAATGTTACAGGACATCAAGCGTCAACCAAGGTGGTTGAGCGCCTGCTTCTGCTCTGGA
GTATTGGAGTCAGTTCATGATGGTGGAGCAAGAGAACATTGACCCCTACATGTCATTGAAAACCTCAAT
GCCTTTTCAACACCACAGACACCAGATATTAAGTGAAGTTTACTGGGACCTGTGACCACTCCTGAACATC
AGCTTCTCAAGACTCCTTCATCTAGTCCCTGTACAGAGAGTCCGTTCCACCCTACCAAGAACACTCC
TAGATTTGGGAGCAAAAGCAAGTCTGCCACTAACCTAGGACGACAAGGCAACTTTTTTGGTCTCTCAATG
CTCAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_013277.4](#)

RefSeq Size: 3315 bp

RefSeq ORF: 1899 bp

Locus ID: 29127

UniProt ID: [Q9H0H5](#)

Cytogenetics: 12q13.12

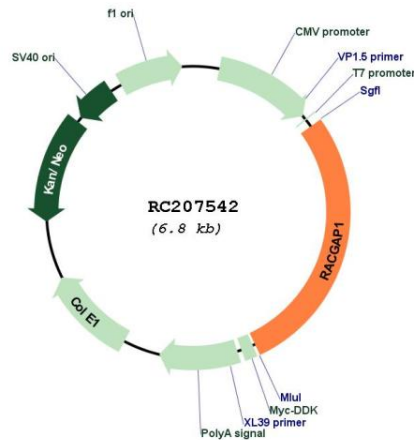
Domains: RhoGAP, DAG_PE-bind

Protein Families: Druggable Genome

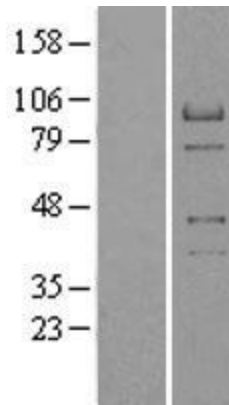
MW: 71 kDa

Gene Summary: This gene encodes a GTPase-activating protein (GAP) that is a component of the centralspindlin complex. This protein binds activated forms of Rho GTPases and stimulates GTP hydrolysis, which results in negative regulation of Rho-mediated signals. This protein plays a regulatory role in cytokinesis, cell growth, and differentiation. Alternatively spliced transcript variants have been found for this gene. There is a pseudogene for this gene on chromosome 12. [provided by RefSeq, Feb 2016]

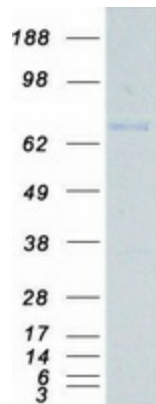
Product images:



Circular map for RC207542



Western blot validation of overexpression lysate (Cat# [LY426646]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC226046] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RACGAP1 protein (Cat# [TP307542]). The protein was produced from HEK293T cells transfected with RACGAP1 cDNA clone (Cat# RC207542) using MegaTran 2.0 (Cat# [TT210002]).