

Product datasheet for **RC220913**

RASA4 (NM_006989) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RASA4 (NM_006989) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RASA4
Synonyms:	CAPRI; GAPL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC220913 representing NM_006989
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCAAGCGCAGCTCGCTGTACATCCGCATCGTGGAGGGGAAGAACCTTCCCGCCAAGGACATCACTG
 GCAGCAGCGACCCCTACTGCATCGTGAAGGTGGACAATGAGCCATCATCAGGACAGCCACAGTGTGGAA
 GACCCTGTGCCCTTCTGGGGTGAAGGAGTACCAAGTGCACCTGCCGCCACCTTCCACGCTGTGGCTTTC
 TATGTCATGGATGAGGATGCCCTCAGCCGGGACGACGTTATCGGAAAGGTCTGCCTTACAAGGGACACCA
 TAGCCTCTCACCTAAGGGTTTCAGCGGGTGGGCCACCTGACGGAGGTGACCCCGACGAGGAGGTGCA
 GGGCGAGATCCACCTGCGGCTGGAAGTGTGGCCAGGGGCCGGGCTGCCGGCTACGCTGCTGTGTCTG
 GAGGCCAGGGATCTGCCCCAAAGGACCGCAATGGCACATCTGACCCCTTCGTCGAGTGCCTACAAGG
 GCCGGACACGGGAGACCTCGATCGTGAAGAAGTCACTGCTACCCACGCTGGAATGAGACGTTTGAATTTGA
 GCTGCAGGAGGGGCCATGGAGGCACTGTGCTGGAGGCTGGGACTGGGACCTTGTGAGCCGAAACGAC
 TTCTGGGCAAAAGTGGTATTGATGTCCAGAGACTGCGGGTGGTGCAGCAGGAGGAGGGCTGGTTCGGGC
 TGCAGCCCGACAGTCCAAGAGCCGGCGCATGACGAGGGCAACCTGGGCTCCTTGCAGCTGGAGGTGCG
 GCTGCGGGACGAGACGGTGTGCCCTCCAGCTACTACCAGCCACTGGTGCACCTGCTGTGCCACGAGGT
 AAGCTGGGCATGCAGGGCCAGGGCAGCTGATCCCACTCATCGAGGAGACAACCAGCACCAGTGTGCGC
 AGGACGTGGCCACGAACCTGCTCAAGCTTCTTGGGGCAGGGGTGGCCAAGGACTTCTGGACCTGCT
 CTTCCAGCTGGAGCTGAGTCGCACCAAGTGAACCAACACCCTGTTCCGGAGCAACTCTCTGGCCTCAAAG
 TCCATGGAGTCTTTCTGAAGGTGGCCGGATGCAGTACCTGCACGGCGTCTGGGCCCCATCATCAACA
 AGGTGTTTGGAGAGAAGAAGTACGTGGAGCTGGACCCAGCAAAGTGAAGTTAAGGATGTAGGGTGTCT
 CGGGCTGCACCGCCCGCAGACCGAGGCCGAGGTGCTGGAGCAGCGCCGACAGCCTGCGCGCCACCTG
 GGGCCCTGCTGAGCGCGCTCAGCCGCTCGGTTGCGCGCTGCCCGCGTGGTGCAGCCACCTTCCGCC
 AGCTTCTCGGCGCTGCGCGAGCGTTCGCCGCGCCAGCAGAGAATGTACCGTTCATCGCGCTCAC
 CAGCTTCTGTGCTGCGCTTCTCTCCCGCCATCATGTGCCCAAGCTTCCACCTGCGGGAGCGC
 CACGCGGACGCCCGCACCAGCCGACCTGCTCCTGTTGGCCAAGGCAGTCCAGAACGTGGGCAACATGG
 ACACGCCGGCTTCCAGGGCCAAGGAGGCTTGGATGGAGCCGCTGCAGCCACCGTGCAGCCAGGGCGTGGC
 GCAGCTGAAGGACTTCATACCAAGCTCGTGGACATCGAGGAGAAGGACGAGCTGGACCTGCAGCGGACG
 CTGAGTTTGCAGGCGCCACCTGTGAAGGAGGGGCCACTTTCATCCACAGGACCAAGGGCAAGGGCCCC
 TCATGTCCTCCTCTCAAGAAGCTCTACTTCTCCCTCACTACCGAGGCCCTCAGCTTCGCGAAGATGCC
 CAGCTCCAAGAAAAGCGCCCTCATCAAGTTAGCCAACATCCGGGACGCGAAAAGGTTGAGGAAAAGAGC
 TTTGGCGGCTCGCACGTATGCAGGTCACTACACGGACGACGCCGGCAGGCCCCAGACTGCCTACCTGC
 AGTGCAAGTGTGTGAATGAGCTTAACAGTGGCTGTCTGCGCTGCGGAAGGTGAGCATCAACAACCCGG
 ACTGCTGGGCTCCTACCACCTGGCGTCTTCCGTGGGACAAGTGGAGCTGCTGCCACCAAAAAGAGAAG
 ACAGGTGAGGGCTGCGATAAGACCCGGTACGGGTGACCTGCAGGAGTGAATGACCCTTTGACCATG
 ACCTTGAGGCCAGCTCATCTACCGCACCTGCTGGGCGTGGAGGCCATGCTGTGGGAGAGGCACCGGGA
 GCTGAGCGGGGACAGAGGCAGGCACGGTGCCACGAGCCCTGGCAAAGTCCCCGAGGACTCATTGGCC
 CGGCTGCTCCGGGTGCTGCAGGACCTCCGCGAGGCCATAGCTCCAGCCCGCGGCTCCCCACCCTCAG
 AGCCCACTGCCTCCTGGAGCTGCAGACG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC220913 representing NM_006989
Red=Cloning site Green=Tags(s)

MAKRSSLYIRIVEGKNLPAKDITGSSDPYCIKVDNEPIIRTATVWKTLCPFWGEEYQVHLPPTFHAVAF
YVMDEDALSRDDVIGKVCLTRDTIASHPKGFSWAHLTEVDPDEEVQGEIHLRLEVWPGARACRLRCSVL
EARDLAPKDRNGTSDPFVRVRYKGRTRETSIVKKSCYPRWNETFEFELQEGAMEALCVEAWDWDLVSRND
FLGKVVIDVQRLRVVQEEGWFRLLQPDQSKSRRHDEGNLGSLLQLEVRLRDETVLPSSYYQPLVHLLCHEV
KLGMQGPGQLIPLIEETTSTECRQDVATNLLKFLGQGLAKDFLDLLFQLELSRTSETNTLFRSNSLASK
SMESFLKVAGMQYLHGVLGPIINKVFEEKYVELDPSKVEVKDVGCSGLHRPQTEAEVLEQSAQTLRAHL
GALLSALSRSVRACPAVVRATFRQLFRRVRERFPGAQHENVPIAVTSFLCLRFFSPAIMSPKLFHLRER
HADARTSRTLLLLAKAVQNVGNMDTPASRAKEAWMEPLQPTVRQGVAKLDFITKLVDEEKDELQRT
LSLQAPPVKEGPLFIHRTKGGKPLMSSSFKKLYFSLTTEALSFAMPSKKKSALIKLANIRAAEKVEEKS
FGGSHVMQVIYTD DAGRPQTAYLQCKCVNELNQWLSALRKVSINNTGLLGSYHPGVFRGDKWSCCHQKEK
TGQGCDKTRSRVTLQEWNDPLDHDLEAQLIYRHLLGVEAMLWERHRELSGGTEAGTVPTSPGKVPEDSLA
RLLRVLQDLREAHSSSPAGSPPSEPNLLELQT

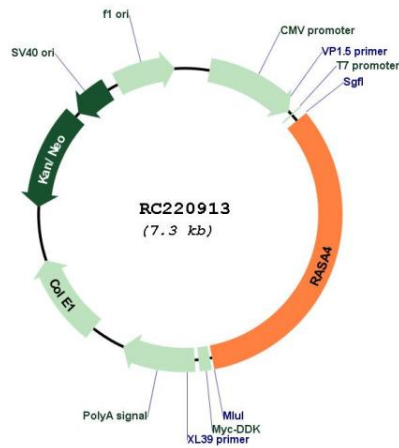
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8041_f12.zip

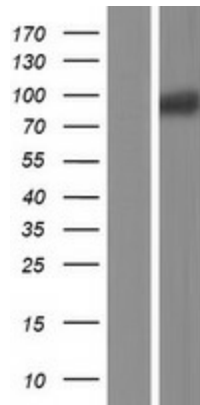
Restriction Sites: Sgfl-Mlul

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:	<u>NM_006989.3</u> , <u>NP_008920.3</u>
RefSeq Size:	5579 bp
RefSeq ORF:	2412 bp
Locus ID:	10156
UniProt ID:	<u>O43374</u>
Cytogenetics:	7q22.1
Domains:	C2, BTK, PH, RasGAP
Protein Families:	Druggable Genome
MW:	90.2 kDa
Gene Summary:	<p>This gene encodes a member of the GAP1 family of GTPase-activating proteins that suppresses the Ras/mitogen-activated protein kinase pathway in response to Ca(2+). Stimuli that increase intracellular Ca(2+) levels result in the translocation of this protein to the plasma membrane, where it activates Ras GTPase activity. Consequently, Ras is converted from the active GTP-bound state to the inactive GDP-bound state and no longer activates downstream pathways that regulate gene expression, cell growth, and differentiation. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]</p>

Product images:



Circular map for RC220913



Western blot validation of overexpression lysate (Cat# [LY416272]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC220913 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).