

Product datasheet for **RG220913**

RASA4 (NM_006989) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RASA4 (NM_006989) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RASA4
Synonyms:	CAPRI; GAPL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG220913 representing NM_006989
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**

ATGGCCAAGCGCAGCTCGCTGTACATCCGCATCGTGGAGGGAAGAACCTTCCCGCCAAGGACATCACTG
 GCAGCAGCGACCCCTACTGCATCGTGAAGGTGGACAATGAGCCCATCATCAGGACGCCACAGTGTGGAA
 GACCCTGTGCCCTTCTGGGGTGAAGGTACCAAGTGCACCTGCCGCCACCTTCCACGCTGTGGTTTC
 TATGTCATGGATGAGGATGCCCTCAGCCGGGACGACGTTATCGGAAAGGTCTGCCTTACAAGGGACACCA
 TAGCCTCTCACCCTAAGGGTTTCAGCGGGTGGGCCACCTGACGGAGGTGACCCGACGAGGAGGTGCA
 GGGCGAGATCCACCTGCGGCTGGAAGTGTGGCAGGGGCCGGGCTGCCGGCTACGCTGCTGTGTCTG
 GAGGCCAGGGATCTGGCCCCAAGGACCGCAATGGCACATCTGACCCCTTCGTCCGAGTGCCTACAAGG
 GCCGGACACGGGAGACCTCGATCGTGAAGAAGTCATGCTACCCACGCTGGAATGAGACGTTTGAATTTGA
 GCTGCAGGAGGGGCCATGGAGGCACTGTGCGTGGAGGCTGGGACTGGGACCTTGTGAGCCGAAACGAC
 TTCTCTGGCAAAAGTGGTGATTGATGTCCAGAGACTGCGGGTGGTGCAGCAGGAGGAGGGCTGGTTCCGGC
 TGCAGCCCGACCAAGTCCAGAGCCGGCGCATGACGAGGGCAACCTGGGCTCCTTGCAGCTGGAGGTGCG
 GCTGCGGGACGAGACGGTGTGCCCTCCAGCTACTACGACCACTGGTGCACCTGCTGTGCCACGAGGTG
 AAGCTGGGCATGCAGGGCCAGGCGAGCTGATCCCACTCATCGAGGAGACAACAGCACCAGTGTGCGC
 AGGACGTGGCCACGAACCTGCTCAAGCTTCTCTGGGGCAGGGGTGGCCAAGGACTTCTGGACCTGCT
 CTTCCAGCTGGAGCTGAGTCGCACCAAGTGAACCAACACCTGTTCCGGAGCAACTCTCTGGCCTCAAG
 TCCATGGAGTCTTTCTGAAGGTGGCCGGATGCAGTACCTGCACGGCGTCTGGGCCCATCATCAACA
 AGGTGTTTGAGGAGAAGAAGTACGTGGAGCTGGACCCAGCAAGTGAAGTTAAGGATGAGGGTGCTC
 CGGGCTGCACCGCCCGCAGACCGAGGCGAGGTGCTGGAGCAGAGCGCGCAGACGCTGCGCGCCACCTG
 GGGGCCCTGCTGAGCGCGCTCAGCCGCTCGGTTGCGCGCTGCCCGCGCTGGTGCAGCGCCACCTTCCGCC
 AGCTCTTCCGGCGCTGCGCGAGCGCTTCCCGCGCGCCAGCAGAGAATGTACCGTTTATCGCGCTCAC
 CAGCTTCTGTGCTGCGCTTCTCTCTCCCGCCATCATGTGCCCCAAGCTCTTCCACCTGCGGGAGCGC
 CACGCGGACGCGCCAGCAGCCGACCTGCTCCTGTTGGCCAAGGCAGTCCAGAACGTGGGCAACATGG
 ACACGCGCGCTTCCAGGGCCAAGGAGGCTTGGATGGAGCCGCTGCAGCCACCGTGCGCCAGGGCGTGGC
 GCAGCTGAAGGACTTCATCACCAAGCTCGTGGACATCGAGGAGAAGGACGAGCTGGACCTGCAGCGGACG
 CTGAGTTTGCAGGCGCCACCTGTGAAGGAGGGGCCACTTTCATCCACAGGACCAAGGGCAAGGGCCCCC
 TCATGTCTCTCTTCAAGAAGCTCTACTTCTCCCTCACTACCGAGGCCCTCAGCTTCGCGAAGATGCC
 CAGCTCCAAGAAAAGCGCCCTCATCAAGTTAGCCAACATCCGGGCAAGCGAAAAGGTTGAGGAAAAGAGC
 TTTGGCGGCTCGCACGTATGCAGGTCACTACACGGACGACGCCGGCAGGCCCCAGACTGCCTACCTGC
 AGTGCAAGTGTGTGAATGAGCTTAACAGTGGCTGTCTGCGCTGCGGAAGGTGAGCATCAACAACCCGG
 ACTGCTGGGCTCCTACACCTGGCGTCTTCCGTGGGGACAAGTGGAGCTGCTGCCACCAAAAAGAGAAG
 ACAGGTGAGGGCTGCGATAAGACCCGGTCACGGGTGACCTGCAGGAGTGAATGACCCTCTTGACCATG
 ACCTTGAGGCCAGCTCATCTACCGCACCTGCTGGGCGTGGAGGCCATGCTGTGGGAGAGGCACCGGA
 GCTGAGCGGGGACAGAGGCAGGCACGGTGCCACGAGCCCTGGCAAGTCCCCGAGGACTCATTGGCC
 CGGCTGCTCCGGGTGCTGCAGGACCTCCGCGAGGCCATAGCTCCAGCCCGCGCGCTCCCCACCTCAG
 AGCCCACTGCCTCTGGAGCTGCAGACG

ACGCGTACGCGGCGGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG220913 representing NM_006989
 Red=Cloning site Green=Tags(s)

MAKRSSLYIRIVEGKNLPAKDITGSSDPYCIKVDNEPIIRTATVWKTLCPFWGEEYQVHLPPTFHAVAF
 YVMDEDALSRDDVIGKVCLTRDTIASHPKGFSWAHLTEVDPDEEVQGEIHLRLEVWPGARACRLRCSVL
 EARDLAPKDRNGTSDPFVRVRYKGRTRETSIVKKSCYPRWNETFEFELQEGAMEALCWEAWDWLVSRND
 FLGKVVIDVQRLRVVQEEGWFRQLQPDQSKSRRHDEGNLQSLQLEVRLRDETVLPSSYYQPLVHLLCHEV
 KLGMQGPGQLIPLIEETTSTECRQDVATNLLKFLGQGLAKDFLDLLFQLELSRTSETNTLFRSNSLASK
 SMESFLKVAGMQYLHGVLGPIINKVFEEKKYVELDPSKVEVKDVGCSGLHRPQTEAEVLEQSAQTLRAHL
 GALLSALSRSVRACPAVVRATFRQLFRRVRERFPGAQHENVPIAVTSFLCLRFFSPAIMSPKLFHLRER
 HADARTSRTLLLAKAVQNVGNMDTPASRAKEAWMEPLQPTVRQGVAQLKDFITKLVDIEEKDELQRT
 LSLQAPPVKEGPLFIHRTKGKGPLMSSSFKKLYFSLTTEALSFAMPSSKKSALIKLANIRAAEKVEEKS
 FGGSHVMQVIYTDDAGRPQTAYLQCKCVNELNQWLSALRKVSINNTGLLSYHPGVFRGDKWSCCHQKEK
 TGQGCDKTRSRVTLQEWNDPLDHDLEAQLIYRHLLGVEAMLWERHRELSSGTEAGTVPTSPGKVPEDSLA
 RLLRVLQDLREAHSSSPAGSPPSEPNCLLELQT

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

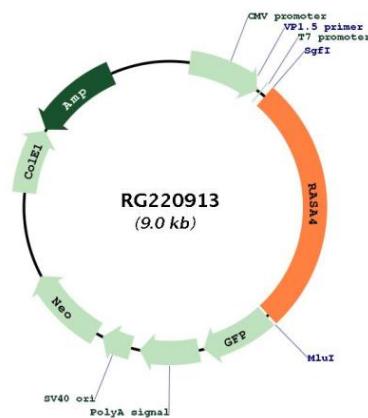
Cloning Scheme:



ACCN:	NM_006989
ORF Size:	2409 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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:	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, 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
Gene Summary:	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]

Product images:



Circular map for RG220913