

Product datasheet for **RC224147**

RASA4 (NM_001079877) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RASA4 (NM_001079877) 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)



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**ORF Nucleotide
Sequence:**

>RC224147 representing NM_001079877
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**

ATGGCCAAGCGCAGCTCGCTGTACATCCGCATCGTGGAGGGAAGAACCTTCCCGCCAAGGACATCACTG
 GCAGCAGCGACCCCTACTGCATCGTGAAGGTGGACAATGAGCCCATCATCAGGACAGCCACAGTGTGGAA
 GACCTGTGCCCTTCTGGGGTGAAGTACCAAGTGCACCTGCCGCCACCTTCCACGCTGTGGCTTTC
 TATGTCATGGATGAGGATGCCCTCAGCCGGGACGACGTTATCGGAAAGGTCTGCCTTACAAGGGACACCA
 TAGCCTCTCACCTAAGGGTTTCAGCGGTGGGCCACCTGACGGAGGTGACCCGATGAGGAGGTGCA
 GGGCGAGATCCACCTGCCGTGGAAGTGTGCCAGGGGCCGGGCTGCCGGCTACGCTGCTGTGTCTG
 GAGGCCAGGGATCTGGCCCCAAGGACCGCAATGGCACATCTGACCCCTTCGTCGAGTGCCTACAAGG
 GCCGACACGGGAGACCTCGATCGTGAAGAAGTCATGCTACCCACGCTGGAATGAGACGTTTGAATTTGA
 GCTGCAGGAGGGGCCATGGAGCGCTGTGCGTGGAGGCTGGGACTGGGACCTTGTGAGCCGAAACGAC
 TTCTTGGCAAAAGTGGTGATTGATGTCCAGAGACTGCGGGTGGTGCAGCAGGAGGAGGGCTGGTTCCGGC
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 GCTGCGGACGAGACGGTGTGCCCTCCAGCTACTACAGCCACTGGTGCACCTGCTGTGCCACGAGGTG
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 CTTCCAGCTGGAGCTGAGTCGCACCAAGTGAACCAACACCTGTTCCGGAGCAACTCTCTGGCCTCAAG
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 AGGTGTTTGAGGAGAAGAAGTACGTGGAGCTGGACCCAGCAAAGTGAAGTTAAGGATGTAGGGTGCTC
 CGGGCTGCACCGCCCGCAGACCGAGGCGGAGGTGCTGGAGCAGAGCGCGCAGACGCTGCGCGCCACCTG
 GGGGCCCTGCTGAGCGCGCTCAGCCGCTCGGTTGCGCGCTGCCCCGCGTGGTGCAGCGCCACCTTCCGCC
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 ACACGCCGGCTTCCAGGGCCAAGGAGGCTTGGATGGAGCCGCTGCAGCCACCGTGCAGGAGGGCGTGGC
 GCAGCTGAAGGACTTCATCACCAAGCTCGTGGACATCGAGGAGAAGGACGAGCTGGACCTGCAGCGGACG
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 CAGCTCCAAGTGTGTGAATGAGCTTAACCAAGTGGCTGTCTGCGCTGCGGAAGGTGAGCATCAACAACAC
 GGACTGCTGGGCTCCTACCACCTGGCGTCTTCCGTGGGACAAGTGGAGCTGCTGCCACCAAAAAGAGA
 AGACAGGTGAGGCTGCGATAAGACCGGTACGGGTGACCTGCAGGAGTGGAATGACCTCTTGACCA
 TGACCTTGAGGCCAGCTCATCTACCGCACCTGCTGGGCGTGGAGGCCATGCTGTGGGAGAGGCACCGG
 GAGCTGAGCGGGGGCGCAGAGGCAGGCACGGTGGCCACGAGCCCTGGCAAAGTCCCCGAGGACTCATTGG
 CCCGGCTGCTCCGGGTGCTGCAGGACCTCCGCGAGGCCATAGCTCCAGCCCGGCCGGTCCCCACCTC
 AGAGCCCAACTGCCTCCTGGAGCTGCAGACG

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC224147 representing NM_001079877
Red=Cloning site Green=Tags(s)

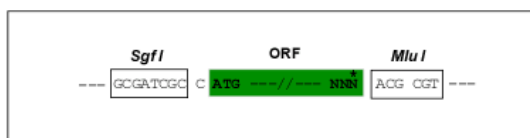
MAKRSSLYIRIVEGNLPAKIDITGSSDPYICVKVDNEPIIRTATVWKTLCPFWGEEYQVHLPPTFHAVAF
YVMDEDALSRDDVIGKVLTRDTIASHPKGFSGWAHLTEVDPDEEVQGEIHLRLVWPGARACRLRCSVL
EARDLAPKDRNGTSDPFVRVRYKGRTRETSIVKKSCYPRWNETFEFELQEGAMEALCWEAWDWLVRND
FLGKVVIDVQRLRVVQQEEGWFLRPDQSKSRRHDEGNLGSLLQEVRLRDETVLPSSYYQPLVHLLCHEV
KLGMQGPQLIPLIEETTSTECRQDVATNLLKFLGQGLAKDFLLQLLELSRTSETNTLFRSNSLASK
SMESFLKVAGMQYLHGVLPPIINKVFEEKKYVELDPSKVEVKDVGCSGLHRPQTEAEVLEQSAQTLRAHL
GALLSALSRSVRACPAVVRAFRQLFRVRERFPGAQHENVPIAVTSFLCLRFFSPAIMSPKLFHLRER
HADARTSRTLLLLAKAVQNVGNMDTPASRAKEAWMEPLQPTVRQGAQLKDFITKLVDIEEKDELQRL
LSLQAPPVKEGFLFIHRTKKGKPLMSSFFKLLYFSLTTEALFSAKTPSSKVCNQLQWL SALRKVSINNT
GLGSHYPGVFRGDKWSCCHQKEKTGQCDKTRSVTLQEWNDPLDHDLEAQLIYRHLLGVEAMLWERHR
ELSGGAAGTGYPTSPGKVPEDSLARLIRVLODLREAHSSSPAGSPSPSEPNCLLELOT

TRTRPLEOKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



EcoRI *BamHI* *KpnI* *RBS* *Kozac Consensus* *SgfI*
 CTATAGGCGCGCGGGGAATCTGTCGACTGGATCCGGTACCGAGGAGATCTGCGCCGCGGATCGC C **ATC**

ORF **120** *MluI* *NotI* *XhoI* Myc.Tag
120 ACG CGT ACG CGG CCG CTC GAG CAG AAA CTC ATC TCA GAA GAG
 T R T R P L E Q K L I S E E

EcoRV *Flag.Tag* *PmeI* *FseI*
 GAT CTG GCA GCA AAT GAT ATC CTG GAT TAC AAG GAT GAC GAC GAT AAG GTT TAA ACGGCCGGCC
 D L A A N D I L D Y K K D D D D K V Stop

* The last codon before the Stop codon of the ORF

ACCN: NM 001079877

ORF Size: 2271 bp

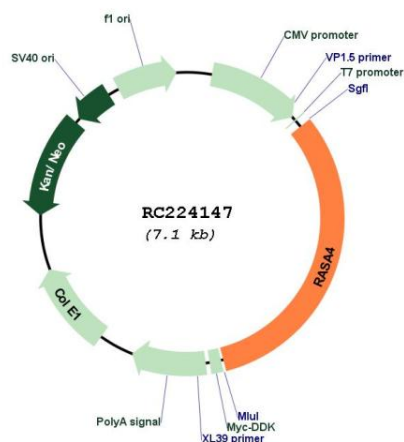
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001079877.2, NP_001073346.2</u>
RefSeq Size:	5468 bp
RefSeq ORF:	2274 bp
Locus ID:	10156
UniProt ID:	<u>O43374</u>
Cytogenetics:	7q22.1
Protein Families:	Druggable Genome
MW:	85.4 kDa
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 RC224147