

Product datasheet for **RC230874**

RASAL1 (NM_001193521) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RASAL1 (NM_001193521) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RASAL1
Synonyms:	RASAL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC230874 representing NM_001193521
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCAAGAGCAGCTCCCTGAATGTTTCGCGTGGTGGAGGGCCGCGCGCTGCCTGCCAAGGACGTGTCTG
 GGAGCAGCGACCCCTACTGCCTAGTGAAAGTGGACGACGAGGTGGTGGCCAGGACAGCTACTGTCTGGAG
 GAGCCTGGGCCCTTCTGGGGGAGGAGTACACGGTGCACCTGCCTCTGGATTTCCACCAGCTGGCCTTC
 TACGTGCTGGATGAGGACACTGTCGGGCACGACATCATCGGCAAGATCTCGTGAGCAGGGAGGCGA
 TTACAGCCGACCCCGAGGGATTGACAGCTGGATTAACCTGAGCCGAGTGGACCCAGATGCAGAAGTGCA
 GGGTGAGATCTGCCTGTCAGTGCAGATGCTGGAGGATGGGAGGGCCGCTGCCTTCGCTGCCATGTGCTT
 CAGGCCAGGGACCTGGCTCCCAGAGACATCTTGGCACATCTGACCCATTTGCACGTGTGTTTTGGGGCA
 GCCAGAGCTTGGAGACCTCAACCATCAAGAAGACTCGCTTCCCGCACTGGGATGAAGTGTGGAGCTGCC
 GGAGATGCCAGGTGCCCGTCCCCTGCGGGTGGAGCTCTGGGACTGGGACATGGTGGGCAAGAATGAC
 TTCTTGGGCATGGTGGAGTTCTCTCAAAGACCCCTCCAGCAGAAGCCACCTAAAGGCTGGTTCGCCCTCC
 TGCCCTTTCCAGAGCCGAGGAGGATTCTGGGGGAACCTGGGTGCCCTGCGAGTGAAGGTACGCCCTGAT
 TGAGGACCGCGTCTGCCTCCCAGTGCTACCAGCCTCTCATGGAGCTGCTCATGGAGTCTGTGCAGGGG
 CCAGCAGAGGAGGACACTGCTAGCCCTTGCTTTGCTGGAAGAGCTGACCTTGGGGGACTGCCGCCAGG
 ACCTTGCCACCAAGCTGGTGAACCTCTTCTTGGCCGGGACTGGCTGGGCATTTCTGGACTATCTCAC
 CCGGCGTGAGGTGGCTCGGACCATGGACCCCAACCCCTCTTCCGTTCTAACTCCCTGGCATCCAAGTGC
 ATGGAACAGTTTATGAAGCTCGTGGGCATGCCCTACCTGCACGAGGTCTGAAGCCTGTGATTAGCCGTG
 TCTTTGAGGAGAAGAAGTACATGGAGCTGGATCCCTGCAAGATGGACCTGGGCCGACCCCGAGGATCTC
 CTCAAAGGCGCACTCTCGGAGGAGCAGATGCGGGAGACCAGCCTGGGGCTGCTGACGGGCTACCTGGGG
 CCCATCGTGGACGCCATCGTGGGCTCCGTGGGGCGCTGCCCGCCCGCATGCGCCTCGCCTTCAAGCAGC
 TGCACCGCGAGTGGAGGAGCGTTCACCCAGGCCGAGCACCAGGATGTGAAGTACCTGGCCATCAGTGG
 ATTTCTTCTTTCGATTCTTCGCACCTGCCATCCTTACCCAAAGCTGTTTGACCTTCGGGACCAACAC
 GCGGACCCCGACTAGCCGCTCACTGCTGTTGCTTGCCAAGGCTGTGCAGAGCATTGGAACCTGGGCC
 AGCAGCTGGGCCAAGGCAAGGAAGTGTGGATGGCCCCCTGCACCCCTTCTGCTGCAGTGTGTCTCAG
 TGTGAGAGACTTCTGGACCGGCTGGTGGATGTGGATGGGGATGAAGCTGGTGTCCAGCCAGGGCCCTG
 TTCCCGCCCTCGGCCATTGTTTCGAGAAGGCTATCTGCTGAAGCGCAAGGAGGAGCCTGCCGCTGGCCA
 CGCGCTTTGCCTTCAAGAAGCGCTACGCTGGCTCAGCGGGGAGACCCTCTCCTTCTCAAGAGTCTGTA
 GTGGCAGGTGGTACGCAGGACGGCACGGGGCGCTGCACACCACCTACCTCCAGTGCAAGAATGTGAAT
 GAGCTCAACCAAGTGGCTCTCGGCCTTGCGCAAGGCCAGCGCCCCAACCCGAACAAGTGGCCGCTGCC
 ACCCCGGTGCCTTCCGACGCGCGCTGGACCTGCTGCCCTCCAGGCTGAGCGCTCAGCCCGCGCTGCAG
 CCGTACACACTCAGCTGTCAACCTGGGGGACTGGAGTGACCCACTGGATCCTGATGCTGAGGCCAGACA
 GTGTATCGGCAGCTGCTCCTGGGGCGGGACCAGCTCAGGCTGAAATTACTGGAGGATTCTAACATGGATA
 CAACTCTGGAGGCAGACACAGGGGCTGTCTGAGGCTCTGGCCCGCAAAGAGCAGCAACTGCCCGCT
 GCTGGAGGTGCTCGCAGACCTGGATCGTCCCACGAGGAGTTCAGCAGCAGGAGCGAGGGAAGGGCGCC
 CTGGGCCCCCTTGCCCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC230874 representing NM_001193521
 Red=Cloning site Green=Tags(s)

MAKSSSLNVRVVEGRALPAKDVSGSSDPYCLVKVDDEVVARTATVWRSLGPFWGEEYTVHLPDFHQLAF
 YVLDEDTVGHDDIIGKISLSREAITADPRGIDSWINLSRVDPDAEVQGEICLSVQMLEDGQGRCLRCHVL
 QARDLAPRDISGTSDFARVFWGSQSLETSTIKKTRFPHWDEVLELREMPGAPSPLRVELWDWDMVGKND
 FLGMVEFSPKTLQKPPKGWFRLPPFRAEEDSGGNL GALRVKVR LIEDRVLP SQCYQPLMELLMESVQG
 PAEEDTASPLALLEELTLGDCRQDLATKLVKFLGRGLAGHFLDYLTRREVARTMDPNTLFRSNSLASKS
 MEQFMKLVGMPYLHEVLKPVISRVFEEKKYMELDPCKMDLGRTRRISFKGALSEEQMRETSGLLLTG YLG
 PIVDAIVGSVGRCPPAMRLAFKQLHRRVEERFPQAEHQDVKYLAISGFLFRFFAPAILTPKLFDLRDQH
 ADPQTSRSLLLLAKAVQSIGNLGQQLGQKELWMAPLHPFLLQCVSRRVDFLDRLVDVDGDEAGVPARAL
 FPPSAIVREGYLLKRKEEPAGLATRF AFKKRYVWLSGETLSFSKSPWQVVTQDGTGALHTTYLQCKNVN
 ELNQWLSALRKASAPNPNKLAACHPGAFRSARWTCCLQAERSAAGCSRTHSAVTLGDWSDPLDPDAEAQT
 VYRQLLLGRDQLRLKLEDSNMDTTLEADTGACPEVLARQRAATARLLEVLADLDRAHEEFQQQERGKAA
 LGPLGP

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001193521

ORF Size: 2328 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: [NM_001193521.1](#), [NP_001180450.1](#)

RefSeq ORF: 2331 bp

Locus ID: 8437

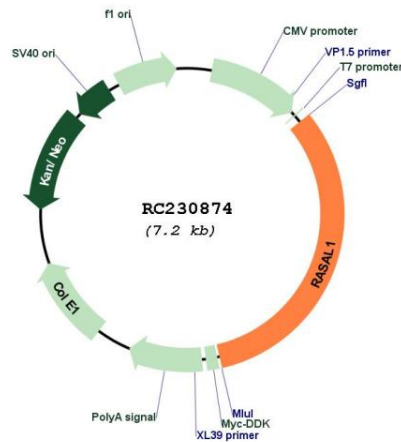
UniProt ID: [O95294](#)

Cytogenetics: 12q24.13

MW: 87.3 kDa

Gene Summary: The protein encoded by this gene is member of the GAP1 family of GTPase-activating proteins. These proteins stimulate the GTPase activity of normal RAS p21 but not its oncogenic counterpart. Acting as a suppressor of RAS function, the protein enhances the weak intrinsic GTPase activity of RAS proteins resulting in the inactive GDP-bound form of RAS, thereby allowing control of cellular proliferation and differentiation. This particular family member contains domains which are characteristic of the GAP1 subfamily of RasGAP proteins but, in contrast to the other GAP1 family members, this protein is strongly and selectively expressed in endocrine tissues. Alternatively spliced transcript variants that encode different isoforms have been described [provided by RefSeq, Jul 2010]

Product images:



Circular map for RC230874