

Product datasheet for **RG210812**

RASAL1 (NM_004658) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RASAL1 (NM_004658) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RASAL1
Synonyms:	RASAL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RG210812 representing NM_004658
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCAAGAGCAGCTCCCTGAATGTTCCGCTGGTGGAGGGCCGCGCGCTGCCTGCCAAGGACGTGTCTG
 GGAGCAGCGACCCCTACTGCCTAGTGAAAGTGGACGACGAGGTGGTGGCCAGGACAGCTACTGTCTGGAG
 GAGCCTGGGCCCTTCTGGGGGAGGAGTACACGGTGCACCTGCCTCTGGATTTCCACCAGCTGGCCTTC
 TACGTGCTGGATGAGGACACTGTCGGGCACGACATCATCGGCAAGATCTCGTGAGCAGGGAGGCGA
 TTACAGCCGACCCCGAGGGATTGACAGCTGGATTAACCTGAGCCGAGTGGACCCAGATGCAGAAGTGCA
 GGGTGAGATCTGCCTGTCAGTGCAGATGCTGGAGGATGGGAGGGCCGCTGCCTTCGCTGCCATGTGCTT
 CAGGCCAGGGACCTGGCTCCCAGAGACATCTTGGCACATCTGACCCATTTGCACGTGTGTTTTGGGGCA
 GCCAGAGCTTGGAGACCTCAACCATCAAGAAGACTCGCTTCCCGACTGGGATGAAGTGTGGAGCTGCC
 GGAGATGCCAGGTGCCCGTCCCCTGCGGGTGGAGCTCTGGGACTGGGACATGGTGGGCAAGAATGAC
 TTCTTGGGCATGGTGGAGTTCTCTCAAAGACCCCTCCAGCAGAAGCCACCTAAAGGCTGGTTCGCCCTCC
 TGCCCTTTCCAGAGCCGAGGAGGATTCTGGGGGAACCTGGGTGCCCTGCGAGTGAAGGTACGCCCTGAT
 TGAGGACCGCGTCTGCCTCCCAGTGCTACCAGCCTCTCATGGAGCTGCTCATGGAGTCTGTGCAGGGG
 CCAGCAGAGGAGGACACTGCTAGCCCTTGGCTTTGCTGGAAGAGCTGACCTTGGGGGACTGCCGCCAGG
 ACCTTGGCACCAGCTGGTGAACCTCTTCTTGGCCGGGACTGGCTGGGCATTTCTGGACTATCTCAC
 CCGGCGTGAGGTGGCTCGGACCATGGACCCCAACCCCTCTTCCGTTCTAACTCCCTGGCATCCAAGTGC
 ATGGAACAGTTTATGAAGCTCGTGGGCATGCCCTACCTGCACGAGTCTGAAGCCTGTGATTAGCCGTG
 TCTTTGAGGAGAAGAAGTACATGGAGCTGGATCCCTGCAAGATGGACCTGGGCCGACCCGGAGGATCTC
 CTCAAAGGCGCACTCTCGGAGGAGCAGATGCGGGAGACCAGCCTGGGGCTGCTGACGGGTACCTGGGG
 CCCATCGTGGACGCCATCGTGGGCTCCGTGGGGCGCTGCCCGCCCGCATGCGCCTCGCCTTCAAGCAGC
 TGCACCGCGAGTGGAGGAGCGTTCACCCAGGCGGAGCACCAGGATGTGAAGTACCTGGCCATCAGTGG
 ATTTCTTCTTTCGATTCTTCGCACCTGCCATCCTTACCCAAAGCTGTTTGACCTTCGGGACCAACAC
 GCGGACCCCGACTAGCCGCTCACTGCTGTTGCTTGCCAAGGCTGTGCAGAGCATTGGAACCTGGGCC
 AGCAGCTGGGCCAAGGCAAGGAAGTGTGGATGGCCCCCTGCACCCCTTCTGCTGCAGTGTGTCTCAG
 TGTGAGAGACTTCTGGACCGGCTGGTGGATGTGGATGGGGATGAAGTGGTGTCCAGCCAGGGCCCTG
 TTCCCGCCCTCGGCCATTGTTTCGAGAAGGCTATCTGCTGAAGCGCAAGGAGGAGCCTGCCGCTGGCCA
 CGCGCTTTGCCTTCAAGAAGCGCTACGTCTGGCTCAGCGGGGAGACCCTCTCCTTCTCAAGAGTCTGA
 GTGGCAGATGTGTCACTCCATCCCGTGTCTCACATCCGCGCCGTTGGAGCGCGTAGACGAGGGCGCCTT
 CACTGCCCCACGTGATGCAGGTGGTGCAGCAGGACGGCACGGGGGCGCTGCACACCACCTACCTCCAGT
 GCAAGAATGTGAATGAGCTCAACCAGTGGCTCTCGGCCTTGCACAAGGCCAGCGCCCCCAACCCGAACA
 GCTGGCCGCTGCCACCCCGGTGCCTTCCGAGCGCGCTGGACCTGCTGCCTCCAGGCTGAGCGCTCA
 GCCCGCGCTGCAGCCGTACACTCAGCTGTACCCTGGGGGACTGGAGTGACCCACTGGATCCTGATG
 CTGAGGCCAGACAGTGTATCGGAGCTGCTCCTGGGGCGGACCAGCTCAGGCTGAAATTAAGGAGGA
 TTCTAACATGGATACAACCTCTGGAGGCAGACAGGGGCTGTCTGAGGTCTTGCCCGGCAAGAGCA
 GCAACTGCCCGCCTGCTGGAGGTGCTCGCAGACCTGGATCGTGCCACGAGGAGTTCAGCAGCAGGAGC
 GAGGGAAGGCGGCCCTGGGCCCTTGGCCCC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG210812 representing NM_004658
 Red=Cloning site Green=Tags(s)

MAKSSSLNVRVVEGRALPAKDVSGSSDPYCLVKVDDEVVARTATVWRSLGPFWGEEYTVHLPDFHQLAF
 YVLDEDTVGHDDIIGKISLSREAITADPRGIDSWINLSRVDPDAEVQGEICLSVQMLEDGQGRCLRCHVL
 QARDLAPRDISGTSDFARVFWGSQSLETSTIKKTRFPHWDEVLELREMPGAPSPLRVELWDWDMVGKND
 FLGMVEFSPKTLQKPPKGWFRLLPFPRAEEDSGGNL GALRVKVR LIEDRVLP SQCYQPLMELLMESVQG
 PAEEDTASPLALLEELTLGDCRQDLATKLVKFLGRGLAGHFLDYLTRREVARTMDPNTLFRSNSLASKS
 MEQFMKLVGMPYLHEVLKPVISRVFEEKKYMELDPCKMDLGRTRRISFKGALSEEQMRETSLGLLTG YLG
 PIVDAIVGSVGRCPPAMRLAFKQLHRRVEERFPQAEHQDVKYLAISGFLFLRFFAPAILTPKLFDLRDQH
 ADPQTSRSLLLLAKAVQSIGNLGQQLGQKELWMAPLHPFLLQCVSRRVDFLDRLVDVDGDEAGVPARAL
 FPPSAIVREGYLLKRKEEPAGLATRFAFKKRYVWLSGETLSFSKSPWQMCHSIPVSHIRAVERVDEGAF
 QLPVHMVQVVTQDGTGALHTTYLQCKNVNELNQWLSALRKASAPNPKNLAACHPGAFRSARWTCCLQAERS
 AAGCSRTHSAVTLGDWSDPLDPDAEAQTVYRQLLLGRDQLRLKLEDSNMDTTLEADTGACPEVLARQRA
 ATARLLEVLADLDRAHEEFQQQERGAALGPLGP

TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-Mlul

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_004658.1](#), [NP_004649.1](#)

RefSeq Size: 3148 bp

RefSeq ORF: 2415 bp

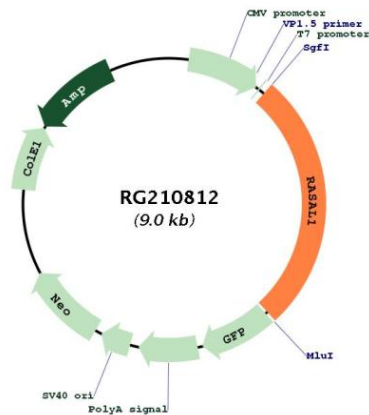
Locus ID: 8437

UniProt ID: [O95294](#)

Cytogenetics: 12q24.13

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 RG210812