

Product datasheet for **RG239599**

RASAL1 (NM_001301202) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RASAL1 (NM_001301202) 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:

>RG239599 representing NM_001301202.
 Blue=ORF Red=Cloning site Green=Tag(s)

```

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCACGATCGCC
ATGGCCAAGAGCAGCTCCCTGAATGTTTCGCGTGGTGGAGGGCCGCGCGCTGCCTGCCAAGGACGTGTCT
GGGAGCAGCGACCCCTACTGCCTAGTGAAGTGGACGACGAGGTGGTGGCCAGGACAGCTACTGTCTGG
AGGAGCCTGGGCCCTTCTGGGGGGAGGAGTACACGGTGCACCTGCCTCTGGATTCCACCAGCTGGCC
TTCTACGTGCTGGATGAGGACACTGTCGGGCACGACGACATCATCGCAAGATCTCGCTGAGCAGGGAG
GCGATTACAGCCGACCCCGAGGGATTGACAGCTGGATTAACCTTGAGCCGAGTGGACCCAGATGCAGAA
GTGCAGGGTGGATCTGCCTGTCAGTGCAGATGCTGGAGGATGGCAGGGCCGCTGCCTTCGCTGCCAT
GTGCTTCAGGCCAGGGACCTGGCTCCCAGAGACATCTCTGGCACATCTGACCCATTTGCACGTGTGTTT
TGGGGCAGCCAGAGCTTGGAGACCTCAACCATCAAGAAGACTCGTTCCCGCACTGGGATGAAGTGTG
GAGCTGCGGGAGATGCCAGTGGCCGTCGCCACTGCGGGTGGAGCTCTGGGACTGGGACATGGTGGGC
AAGAATGACTTCTGGGCATGGTGGAGTCTCTCAAAGACCCTCCAGCAGAAGCCACCTAAAGGCTGG
TTCCGCCTCCTGCCCTTCCAGAGCCGAGGAGATTCTGGGGGAACCTGGGTGCCCTGCGAGTGAAG
GTACGCCTGATTGAGGACCGCTCCTGCCCTCCAGTGCTACCAGCCTCTCATGGAGCTGCTCATGGAG
TCTGTGCAGGGGCCAGCAGAGGAGGACACTGCTAGCCCCTTGGCTTTGCTGGAAGAGCTGACCTTGGGG
GACTGCCGCCAGGACCTTGCCACCAAGCTGGTGAACCTTTTCTTGGCCGGGGACTGGCTGGGCGCTTT
CTGGACTATCTCACCCGGCGTGGTGGCTCGGACCATGGACCCCAACACCCTCTCCGTTCTAACTCC
CTGGCATCCAAGTCGATGGAACAGTTTATGAAGCTCGTGGCATGCCCTACCTGCACGAGTCTGAAG
CCTGTGATTAGCCGTGTCTTTGAGGAGAAGAAGTACATGGAGCTGGATCCCTGCAAGATGGACCTGGGC
CGCACCCGGAGGATCTCCTTCAAAGGCGCACTCTCGGAGGAGCAGATGCGGGAGACCAGCTGGGGCTG
CTGACGGGCTACCTGGGGCCATCGTGGACGCCATCGTGGGCTCCGTGGGGCGCTGCCCGCCCGCATG
CGCCTCGCCTTCAAGCAGCTGCACCGGCGAGTGGAGGAGCGCTTCCCCAGGCCGAGCACCAGGATGTG
AAGTACCTGGCCATCAGTGGATTTCTTCTTTCGCGATTCTTCGCACCTGCCATCCTTACCCCAAAGCTG
TTTGACCTTGGGACCAACACGCGGACCCCCAGACTAGCCGCTCACTGCTGTTGCTTGCCAAGGCTGTG
CAGAGCATTGGAACCTGGGCCAGCAGCTGGGCCAAGGCAAGGAAGTGGATGGCCCCCTGCACCCC
TTCCTGCTGCAGTGTCTCACGTGTGAGAGACTTCTGGACCGGCTGGTGGATGGATGGGGATGAA
GAAGCTGGTGTCCAGCCAGGGCCCTGTCCC GCCCTCGGCCATTGTTGAGAAGGCTATCTGCTGAAG
CGCAAGGAGGAGCCTGCCGGCCTGGCCACGCGCTTTGCCTTCAAGAAGCGCTACGCTGGCTCAGCGGG
GAGACCCTCTCCTTCTCAAGAGTCTGAGTGGCAGATGTGTCACTCCATCCCCGTGTCTACATCCGC
GCCGTGGAGCGCGTAGACGAGGGCGCCTTCCAACCTGCCCCACGTGATGCAGGTGGTACGAGGACGGC
ACGGGGGGCGTGCACACCACCTACCTCCAGTGAAGAATGTGAATGAGCTCAACCAGTGGCTCTCGGCC
TTGCGCAAGGCCAGCGCCCCAACCCGAACAAGCTGGCCGCTGCCACCCCGGTGCCCTCCGAGCGCG
CGCTGGACCTGCTGCCTCCAGGCTGAGCGCTCAGCCGCGGCTGCAGCCGTACACACTCAGCTGTCACC
CTGGGGGACTGGAGTGACCCACTGGATCCTGATGCTGAGGCCAGACAGTGTATCGGCAGCTGCTCCTG
GGGCGGACCAGCTCAGGCTGAAATTAAGGAGATTCTAACATGGATACAACCTGGAGGCAGACACA
GGGGCCTGTCTGAGGTCTGGCCCGGCAAGAGCAGCAACTGCCCGCTGCTGGAGGTGCTCGCAGAC
CTGGATCGTGCCACAGGAGTTCAGCAGCAGGAGCGAGGGAAGGCGGCCCTGGCCCCCTGGCCCC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
  
```

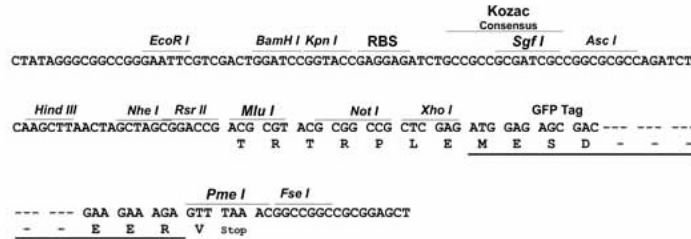
Protein Sequence: >Peptide sequence encoded by RG239599
Blue=ORF Red=Cloning site Green=Tag(s)

MAKSSSLNVRVVEGRALPAKDVSGSSDPYCLVKVDDEVVARTATVWRSLGPFWGEEYTVHLPLDFHQLA
FYVLDEDTVGHDDIIGKISLSREAITADPRGIDSWINLSRVDPDAEVQGEICLSVQMLEDGQGRCLRCH
VLQARDLAPRDISGTSDFARVFWGSQSLETSTIKKTRFPHWDEVLELREMPGAPSPRLVELWDMVMG
KNDFLGMVEFSPKTLQKPPKGFRLLPFPRAEEDSGGNL GALRVKVRLEIDRVLP SQCYQPLMELLME
SVQGPAAEDTASPLALLEELTLGDCRQDLATKLVKFLGRGLAGRFLDYLTRREVRTMDPNTLFRSNS
LASKSMEQFMKLVGMPYLHEVLKPVISRVFEEKKYMELDPCKMDLGRTRRISFKGALSEEQMRETSLGL
LTGYLGPVDAIVGSGVRCPPAMRLAFKQLHRRVEERFPQAEHQDVKYLAISGFLFRFFAPAILTPKL
FDLRDQHADPQTSRSLLLLAKAVQSIGNLGQQLGQKELWMAPLHPFLQCVRVRDFLDRLVDVDGDE
EAGVPARALFPPSAIVREGYLLKRKEEPAGLATRF AFKKRYVWLSGETLSFSKSPWQMCHSIPVSHIR
AVERVDEGAFQLPHVMQVVTQDGTGALHTTYLQCKNVNELNQWLSALRKASAPNPKNLAACHPGAFRSA
RWTCLQAERSAAGCSRTHSAVTLGDWSDPLDPDAEAQT VYRQLLLGRDQLRLKLEDSNMDTTLEADT
GACPEVLARQRAATARLLEVLADLDRAHEEFQQQERGKAALGPLGP
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGGYTNRIEKYEDGGVLHVSFSYRYEAGRVI GDFKVMGTGFPEP
SVIFTDKIIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:

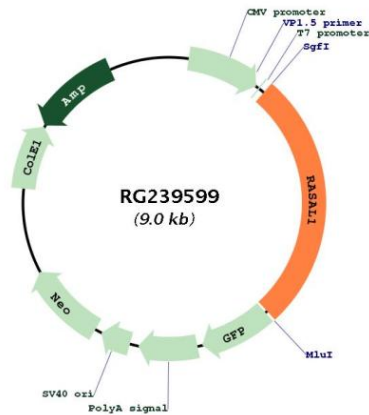


- ACCN:** NM_001301202
- ORF Size:** 2415 bp
- OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each 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).

RefSeq: [NM_001301202.1, NP_001288131.1](#)
RefSeq Size: 3665 bp
RefSeq ORF: 2418 bp
Locus ID: 8437
UniProt ID: [O95294](#)
Cytogenetics: 12q24.13
MW: 90.6 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 RG239599