

Product datasheet for **RG207848**

RASA3 (NM_007368) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RASA3 (NM_007368) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RASA3
Synonyms:	GAP1IP4BP; GAP11
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG207848 representing NM_007368
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGTGGAGGACGAGGGCTCCGGTCTTCCAGAGCGTGAAGATCAAGATCGGTGAAGCCAAAACC
 TTCCTCTTACCGGGGCGAGCAAGATGAGGGATTGCTACTGCACGGTGAACCTGGACCAGGAGGAGT
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ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

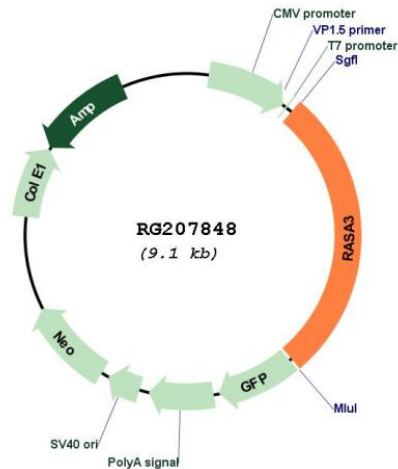
Protein Sequence: >RG207848 representing NM_007368
 Red=Cloning site Green=Tags(s)

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MAVEDEGLRVFQSVKIKIGEAKNLPSYPGSPKMRDCYCTVNLDQEEVFRTKIVEKSLCPFYGEDFYCEIP
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GVVCHKLATRIVECQGLPIVNGQCDPYATVTLAGPFRSEAKKTKVKRKTNNPQFDEVFYFEVTRPCSYSK
KSHFDIEEEVDKLEIRVDLWNASNLKFGDEFLGELRIPLKVLRSYSSYEAWYFLQPRDNGSKSLKPDDL
GSLRLNVVYTEDHVFSSDYSPLRDLLLLKSADVEPVASASAAHILGEVCREKQEAAPLVRLFLHYGRVVP
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APSDSAPGCSPCTGGLPANIQLDIDGDRETERIYSLFNL YMSKLEKMQEACGSKSVYDGPEQEEYSTFVI
DDPQETKTLKQVIAGVGALEQEHAQYKRDKFKKTKYGSQEHPIGDKSFQNYIRQQSETSTHSI
  
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TRTRPLE - GFP Tag - V

Restriction Sites: Sgfl-MluI

Plasmid Map:


ACCN: NM_007368

ORF Size: 2502 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_007368.2](#), [NP_031394.2](#)

RefSeq Size: 4220 bp

RefSeq ORF: 2505 bp

Locus ID: 22821

UniProt ID: [Q14644](#)

Cytogenetics: 13q34

Domains: C2, BTK, PH, RasGAP

Gene Summary: This gene encodes a protein that binds inositol 1,3,4,5-tetrakisphosphate and stimulates the GTPase activity of Ras p21. This protein functions as a negative regulator of the Ras signalling pathway. It is localized to the cell membrane via a pleckstrin homology (PH) domain in the C-terminal region. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2016]