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Product datasheet for RC207848

RASA3 (NM_007368) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RASA3 (NM_007368) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	RASA3
Synonyms:	GAP1IP4BP; GAPIII
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC207848 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGTGGAGGACGAGGGGCTCCGGGTCTTCCAGAGCGTGAAGATCAAGATCGGTGAAGCCAAAAACC
TTCCCTCTTACCCGGGGCCGAGCAAGATGAGGGATTGCTACTGCACGGTGAACCTGGACCAGGAGGAGGT
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GAGCTTCCAGAACTACATCCGGCAGCAGTCCGAGACCTCCACTCATTCCATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC207848 protein sequence
Red=Cloning site Green=Tags(s)

MAVEDEGLRVFQSVKIKIGEAKNLPSYPGPSKMRDCYCTVNLDQEEVFRTKIVEKSLCPFYGEDFYCEIP
RSFRHLSFYIFDRDVFRRDSIIGKVAIQKEDLQKYHNRDTWFQLQHVDADSEVQGKVHLELRLSEVITDT
GVVCHKLATRIVECQGLPIVNGQCDPYATVTLAGPFRSEAKKTKVKRKTNNPQFDEVFYFEVTRPCSYSK
KSHFDFEEEDVDKLEIRVDLWNASNLKFGDEFLGELRIPLKVLRQSSSYEAWYFLQPRDNGSKSLKPDDL
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ILSPNLFQLTPHHTDPQTSRTLTLISKTVQTLGSLSKSKSASFKESYMATFYEFFNEQKYADAVKNFLDL
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AVEKLEEESFKMKNMFQVIQPERALYIQANNCVEAKDWIDILTKVSQCNQKRLTVYHPSAYLSGHWLCCR
APSDSAPGCSPCTGGLPANIQLDIDGDRETERIYSLFNLYMSKLEKMQEACGSKSVYDGPEQEEYSTFVI
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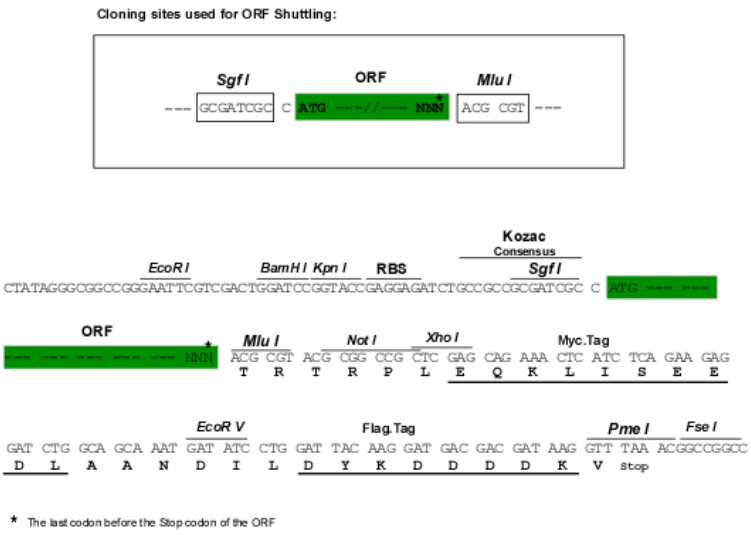
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6693_c12.zip

Restriction Sites: SgfI-MluI

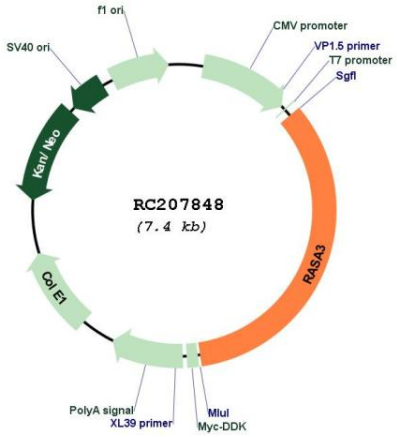
Cloning Scheme:



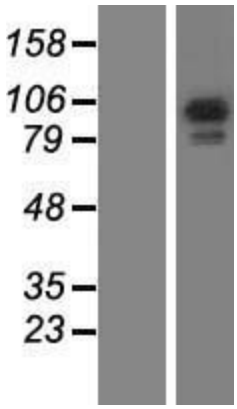
ACCN:	NM_007368
ORF Size:	2502 bp
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own 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_007368.4
RefSeq Size:	4220 bp
RefSeq ORF:	2505 bp
Locus ID:	22821
UniProt ID:	Q14644
Cytogenetics:	13q34
Domains:	C2, BTK, PH, RasGAP
MW:	95.7 kDa
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]

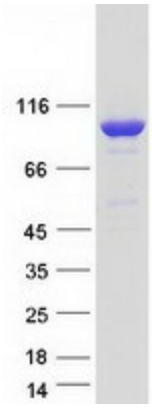
Product images:



Circular map for RC207848



Western blot validation of overexpression lysate (Cat# [LY416017]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207848 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified RASA3 protein (Cat# [TP307848]). The protein was produced from HEK293T cells transfected with RASA3 cDNA clone (Cat# RC207848) using MegaTran 2.0 (Cat# [TT210002]).