

Product datasheet for **RG204341**

RASEF (NM_152573) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	RASEF
Synonyms:	RAB45
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG204341 representing NM_152573
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGGAGCGGATGGGGACGGAGAGGAGCTGGCCGGCTGCGCTCAGTCTTCGCCGCCTGCGACGCGAACC
 GCTCGGGGCGCCTGGAGCGCGAGGAGTTCCGGGCACTGTGCACGGAGCTGCGGGTGCGGCCGGCCGACGC
 CGAGGCAGTATTCCAGCGGCTGGACGCCGACCGTGACGGCGCCATCACCTTCCAGGAGTTCGCGCGTGCG
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 AGGCGGGGCGGAGACACGACAGCGAGGAGGACGAAGCGACGAGGACGCGGGCGCGGCTGGCCAC
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 GTTCTGCACCTTGCTCGAGAAGTGAAAAAGAGAACTGACAAGGATGACAGCAGATCCATTACCAATCTAA
 CCGGGACCAATTCCAAAAGTCACCACAGATGAAGAATTGTTGCAATGGC

AG**CGGACCG**ACGCGTACGCGCGCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG204341 representing NM_152573

Red=Cloning site Green=Tags(s)

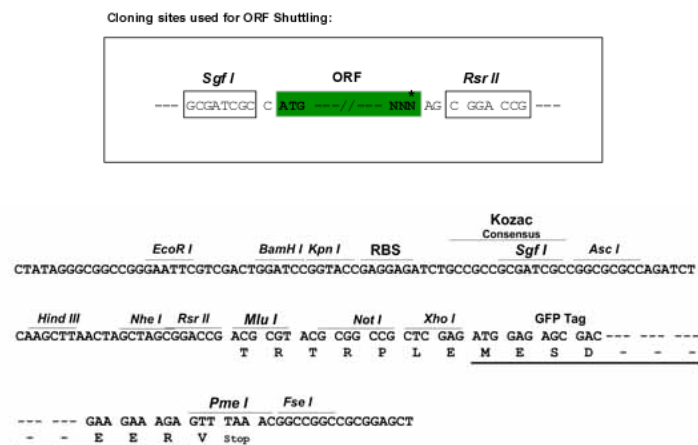
MEADGDGEELARLRSVFAACDANRSGRLEREFRALCTELRVRPADAEAVFQRLDADRDAITFQEFARG
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FIPREEQVSTLYQNINLVEPLIQPYEHVKNFIREIRLQSTEMENLAIKRAQDKAAMQLSELEEEMD
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MENQVKKDLLEAQTNIAFLQSELDALKSDYADQSLNTERDLEIRAYTEDRNSLERQIEILQTANRKLH
DSNDGLRSALENSYSKFNRLHINNISPNTISRSSPKFIGHSPQPLGYDRSSRSYVDEDCDSLALCDP
LQRTNCEVDSLPESCFDSGLSTLRDPNEYDSEVEYKHQRGFQRSHGVQESFGGDASTDVDPDIRDEETF
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NIREWDMIEDAAHETVPIMLVGNKADIRDTAATEGQKCVPGHFGKELAMTYGALFCETSAKDGSNIVEA
VLHLAREVKKRTDKDDSRITNLGTNSKKSPQMKNCNG

SGPTRRRLE - GFP Tag - V

Restriction Sites:

SgfI-RsrII

Cloning Scheme:



ACCN:

NM_152573

ORF Size:

2220 bp

OTI Disclaimer:

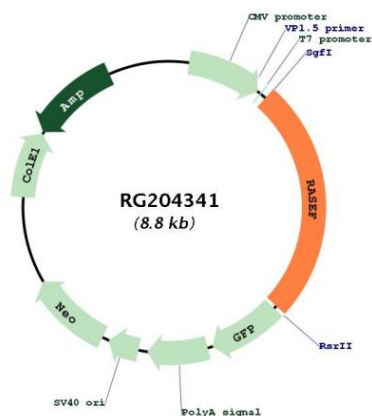
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_152573.4
RefSeq Size:	2770 bp
RefSeq ORF:	2223 bp
Locus ID:	158158
UniProt ID:	Q8IZ41
Cytogenetics:	9q21.32
Domains:	EFh
Protein Families:	Druggable Genome
Gene Summary:	This gene is a member of the Rab family of GTPases that are involved in regulation of membrane traffic. The encoded protein contains an N-terminal EF-hand domain, a coiled-coil motif and a C-terminal Rab domain. A potential role as tumor suppressor has been indicated for this gene. [provided by RefSeq, Nov 2012]

Product images:



Circular map for RG204341