

Product datasheet for **RG204426**

Rabex5 (RABGEF1) (NM_014504) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rabex5 (RABGEF1) (NM_014504) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Rabex5
Synonyms:	rabex-5; RABEX5; RAP1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG204426 representing NM_014504
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGAGCCTTAAGTCTGAACGCCGAGGAATTCATGTGGATCAATCGGATCTCCTGTGCAAGAAAGGATGTG
 GTTACTACGGCAACCCTGCCTGGCAGGGTTTCTGCTCCAAGTGCTGGAGGGAAGAGTACCACAAAGCCAG
 GCAGAAGCAGATTTCAGGAGGACTGGGAGCTGGCGAGCGACTCCAGCGGAGGAAGAAGAGGCCTTTGCC
 AGCAGTCAGAGCAGCCAAGGGGCCCAATCCCTCACATTCTCCAAGTTTGAAGAAAAGAAAACCAACGAGA
 AGACCCGCAAGGTTACCACAGTGAAGAAATTTCTCAGTGCATCTCCAGGGTCGGATCAAAGAAGGAAAT
 TCAGGAAGCAAAAGCTCCAGTCTTCCATAAACCGGCAACAGCATTGAAACGGATAGAGTGTCTAAG
 GAGTTCATAGAATTTCTCAAGACCTTCCACAAGACAGGCCAAGAAATCTATAACAGACCAAGCTGTTTT
 TGAAGGAATGCATTACAAAAGGGATCTAAGCATTGAAGAACAGTCAGAGTGTGCTCAGGATTTCTACCA
 CAATGTGGCCGAAAGGATGCAAACTCGTGGGAAAGTGCCTCCAGAAAGAGTCGAGAAGATAATGGATCAG
 ATTGAAAAGTACATCATGACTCGTCTCTATAAATATGTATTCTGTCCAGAACTACTGATGATGAGAAGA
 AAGATCTTGCCATTCAAAGAGAATCAGAGCCCTGCGCTGGGTTACGCCCTCAGATGCTGTGTGTCCTGT
 TAATGAAGACATCCCAGAAGTGCTGATATGGTGGTGAAGGCGATCACAGATATCATTGAAATGGATTCC
 AAGCGTGTGCCTCGAGACAAGCTGGCCTGCATCACCAGTGCAGCAAGCACATCTTCAATGCCATCAAGA
 TCACCAAGAATGAGCCGGCGTCAGCGGATGACTTCCTCCCCACCTCATCTACATTGTTTTGAAGGGCAA
 CCCCCACGCCTTCAGTCTAATATCCAGTATATCACGCGCTTCTGCAATCCAAGCCGACTGATGACTGGA
 GAGGATGGCTACTATTTACCAATCTGTGCTGTGCTGTGGCTTTCATTGAGAAGCTAGACGCCAGTCTT
 TGAATCTAAGTCAGGAGGATTTTGTATCGCTACATGTCTGGCCAGACCTCTCCAGGAAGCAAGAAGCTGA
 GAGTTGGTCTCCTGATGCTTGCTTAGGCGTCAAGCAAATGTATAAGAACTTGGATCTCTGTCTCAGTTG
 AATGAACGACAAGAAAGGATCATGAATGAAGCCAAGAACTGGAAAAAGACCTCATAGATTGGACAGATG
 GAATTGCAAGAGAAGTTCAAGACATCGTTGAGAAATACCACTGGAAATTAAGCCTCCGAATCAACCGTT
 AGCAGCTATTGACTCTGAAAACGTTGAAAATGATAAACTCCTCCACCACTGCAACCTCAAGTTTATGCA
 GGA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG204426 representing NM_014504
 Red=Cloning site Green=Tags(s)

MSLKSERRGIVHDQSDLLCKKGGYGNPAWQGFCSKCWREEYHKARQKQIQEDWELAEERLQREEEFAFA
 SSQSSQGAQSLTFSKFEEKKTNEKTRKVTTVKKFFSASSRVGSKKEIQEAKAPSPSINRQTSIETDRVSK
 EFIEFLKTFHKTGQEIYKQTKLFLEGMHYKRDLSIEEQSECAQDFYHNVAERMQTRGKVPPERVEKIMDQ
 IEKYIMTRLYKYVFCPETTDDEKKDLAIQKRIRALRWVTPQMLCVPVNEDIPEVSDMVVKAITDIIEMDS
 KRVPRDKLACITKCSKHIFNAIKITKNEPASADDFLPTLIYIVLKGNNPRLQSNIQYITRFCNPSRLMTG
 EDGYYFTNLCCAVAFIEKLDAQSLNLSQEDFDRYMSGQTSRQKQEAESWSPDACLGVKQMYKNLDLLSQL
 NERQERIMNEAKKLEKDLIDWTDGIAREVQDIVEKYPLEIKPPNQPLAIDSENVENDKLPPPLQPQVYA
 G

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_014504

ORF Size: 1473 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_014504.3](#)

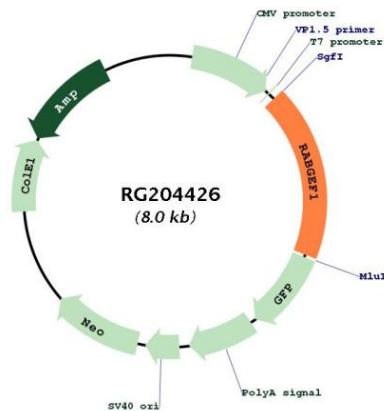
RefSeq Size: 3740 bp

RefSeq ORF: 1476 bp

Locus ID: 27342

UniProt ID:	<u>Q9UJ41</u>
Cytogenetics:	7q11.21
Domains:	zf-A20, VPS9
Gene Summary:	RABGEF1 forms a complex with rabaptin-5 (RABPT5; MIM 603616) that is required for endocytic membrane fusion, and it serves as a specific guanine nucleotide exchange factor (GEF) for RAB5 (RAB5A; MIM 179512) (Horiuchi et al., 1997 [PubMed 9323142]).[supplied by OMIM, Mar 2010]

Product images:



Circular map for RG204426