

Product datasheet for **RG216153**

RAPH1 (NM_203365) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	RAPH1
Synonyms:	ALS2CR9; ALS2CR18; LPD; PREL-2; PREL2; RalGDS/AF-6; RMO1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG216153 representing NM_203365
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGAGCAGCTATCAGATGAAGAAATTGATCATGGTGTGAAGAAGACAGTGACAAGGAAGATCAGGACC
 TGGACAAAATGTTTGGAGCCTGGCTTGGAGAACTAGACAACTCACTCAGAGTTTGGATTCTGACAAGCC
 CATGGAACCAAGTAAAAAGATCTCCTCTTCCGACAGGAAACAAATCGGCCAACTTTCTTACCGCTTCTCC
 ATATACAACCTTGAATGAAGCTCTGAATCAGGGAGAGACTGTGGATCTGGATGCCTTGATGGCTGATCTTT
 GCTCTATAGAGCAGGAGCTCAGCAGCATTGGTTCAAGAAACAGTAAGCGTCAAAACACAGAAACGAAAGC
 TACTCAGAAATTGCTGTTAGCCGACATACATTGAAACATGGCACCTTGAAAGGATTATCTTCTTCACTCT
 AATAGGATAGCTAAACCTTCCCATGCCAGCTACTCCTTGGACGACGTCACTGCACAGTTAGAACAGGCTCT
 CTTTGAGTATGGATGAGGCTGCTCAGCAATCTGTACTAGAAGATACTAAACCCTTAGTAACATCAGCA
 CAGAAGAACCAGCTCAGCAGGCACAGTGAGTGATGCTGAAGTACACTCTATTAGTAATCTCCCATTC
 AGCATCACTTCCGACGCTCCAGCATGGACTCTTTGGATATTGATAAAGTAACACGCCCTCAAGAGCTGG
 ATTTGACACATCAAGGGCAGCCAATTACTGAGCATGCTATTTCTCTGAGATGTTCCAGCAAGCAGGCCAA
 GCGTCATATTGACTTCACAGAAGAACAGGCTGAGCTGACACCTCACTCTATCTGGACAGGGAACCTCC
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 AAGCTGAGAAGATCAGAGTTGCCCTAGAGAAAATTAAGAGGCACAAGTGAAAAAGCTGGTGATCAGAGT
 CCACATGTCTGATGACAGTTCTAAAACAATGATGGTGGATGAGAGGCAGACAGTAAGACAAGTACTGGAT
 AACCTGATGGACAAATCCCACTGCGGTTATAGTTTAGACTGGTCACTGGTAGAAACCGTTTCTGAATTAC
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 CACCTACAGACTATTGTCTGGTGTGAAGCATCCACAAATCCAGAAGAAATCTCAATATATCAAAATACCT
 TTGTTGTGATGATGTGAGGACACTGCATCAGTGGGTCAATGGGATCCGCAATGCAAAGTATGGGAAGCAG
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 CCAGCATTAAATCGGGATCCAGTTCTTCCAGCATCCCAGAGTCTCAGTCAAACCACTCCAATCAGTCTGA
 TAGCGGAGTTTCTGACACCCAGCCAGCAGGACAGTCCGTTCCAGAGCATTGTGAGCTCCGTATTCTCT
 GAAGCTGGAACGAGGCACTCAGTTGGAAGAGTCCAGCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

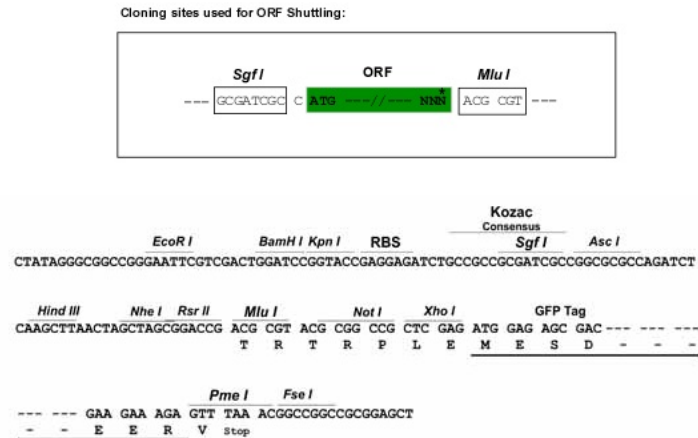
Protein Sequence: >RG216153 representing NM_203365
 Red=Cloning site Green=Tags(s)

MEQLSDEEIDHGAEDSDKEDQDLDMFGAWLGELDKLTQSLDSKPMPEVKRSPLRQETNMANFSYRFS
 IYNLNEALNQGETVDLDALMADLCSIEQELSSIGSGNSKRQITETKATQKLPVSRHLKHGTLKGLSSSS
 NRIAKPSHASYSLLDDVTAQLEQASLSMDEAAQSVLEDTKPLVTNQHRRASAGTVSDAEVHSISNSSHS
 SITSAASSMDSLIDKVTREPQLDLTHQGQPI TEHAISLRCSKQAKRHIDFTEEQAE LTPHSYLDRETS
 LLLRNIAGKPSHLLTKEEQAAKLKAEKIRVALEKIKEAQVKKL VIRVHMSDDSSKTMVDERQTVRQVLD
 NLMDKSHCGYSLDWSLVETVSELQMERIFEDHENLVENLLNWTRDSQNKLI FMERIEKYALFKNPQNYLL
 GKKETAEMADRNKEVLL EECFCGSSVTVP EIEGVLWLKDDGKKS WKRYFLLRASGIYVVPKGKAKVSRD
 LVCFLQLDHNVYVYQDYRNKYKAPTDYCLVLKHPQIQKKSQYIKYLCDDVRTLHQWVNGIRI AKYKGQ
 LYMNYQEALKRTESAYDWTSLSSSSIKSGSSSSSIPESQSNHSNQSDSGVSDTQPAGHVRSQSIVSSVFS
 EAWKRGTL EESSK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_203365

ORF Size: 1932 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

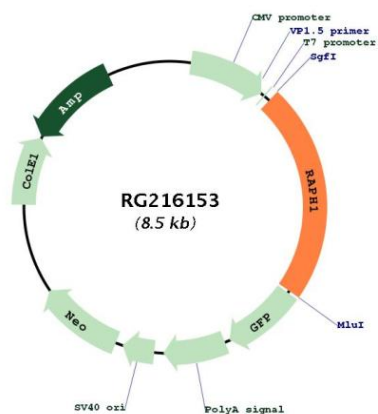
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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:	<u>NM_203365.4</u>
RefSeq Size:	2782 bp
RefSeq ORF:	1935 bp
Locus ID:	65059
UniProt ID:	<u>Q70E73</u>
Cytogenetics:	2q33.2
Gene Summary:	This gene encodes a protein that belongs to the Mig10/Rap1-interacting adaptor molecule/Lamellipodin family of adapter proteins, which function in cell migration. Members of this family contain pleckstrin-homology domains, Ras-association domains, and proline-rich C-termini. The protein encoded by this gene regulates actin dynamics through interaction with Ena/Vasodilator proteins as well as direct binding to filamentous actin to regulate actin network assembly. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2016]

Product images:



Circular map for RG216153