

Product datasheet for **RG211854**

RABL2A (NM_007082) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Tag: TurboGFP
Symbol: RABL2A
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PSI00010)
E. coli Selection: Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG211854 representing NM_007082
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGGCAGAAGACAAACCAACCGAGTGAGTTGGACCAAGGGAAGTATGATGCTGATGACAACGTGAAGA
TCATCTGCCTGGGAGACAGCGCAGTGGGCAATCCAACTCATGGAGAGATTTCTCATGGATGGCTTTCA
GCCACAGCAGCTGTCCACGTACGCCCTGACCCTGTACAAGCACACAGCCACGGTAGATGGAAGGACCATC
CTTGTGGACTTTTGGACACGGCAGGCCAGGAGCGGTTCCAGAGCATGCATGCCTCCTACTACCACAAGG
CCCACGCCCTGCATCATGGTGTTGATGTACAGAGGAAAGTCACCTATAGGAACCTGAGCACCTGGTATAC
AGAGCTTCGGGAGTTCAGGCCAGAGATCCCATGCATCGTGGTGCCCAATAAAATTGATGCAGACATAAAC
GTGACCCAAAAAGCTTCAATTTTGCCAAGAAAGTTCTCCCTGCCCTGTATTTTCGTCTCGGCTGCTGATG
GTACCAATGTTGTGAAGCTCTTCAATGATGCAATTCGATTAGCTGTGTCTTACAAACAGAACTCCAGGA
CTTCATGGATGAGATTTTTCAGGAGCTCGAGAACTTCAGCTTGGAGCAGGAAGAGGAGGACGTGCCAGAC
CAGGAACAGAGCAGCAGCATCGAGACCCATCAGAGGAGGCGGCCCTCTCCACAGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG211854 representing NM_007082
Red=Cloning site Green=Tags(s)

MAEDKTKPSELQDKYDADDNVKIIICLGD SAVGSKLMERFLMDGFQPPQLSTYAL TLYKHTATVDGRTI
LVDFWDTAGQERFQSMHASYYHKAHACIMVFDVQRKVYRNLSTWYTELREFRPEIPCIIVANKIDADIN
VTQKSFNFAKKFSLPLYFVSAADGTNVVKLFNDAIRLAVSYKQNSQDFMDEIFQELENFSLEQEEDVDPD
QEQQSSSIETPSEEAASPHS

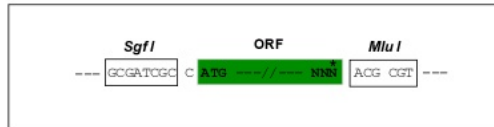
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



Cloning Scheme:

Cloning sites used for ORF Shuttling:



EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI
 CTATAGGGCGGCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCAGATCT
 HindIII NheI RsrII MluI NotI XhoI GFP Tag
 CAAGCTTAAGCTAGCTAGCGGACG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC ---
 T R T R P L E M E S D - - -
 --- GAA GAA AGA GTT TAA ACGGCCGCCCGGAGCT
 - - E E R V Stop

ACCN: NM_007082

ORF Size: 687 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.

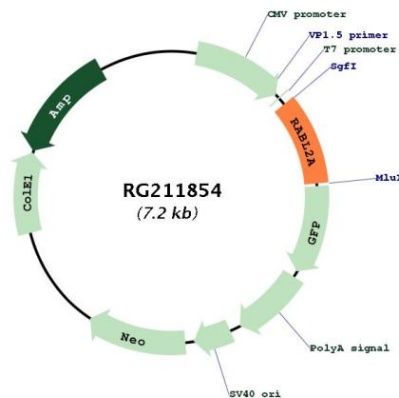
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_007082.2](#), [NP_009013.1](#)

RefSeq Size: 1056 bp

RefSeq ORF:	687 bp
Locus ID:	11159
UniProt ID:	Q9UBK7
Cytogenetics:	2q14.1
Domains:	ras, RAN, RAS, RHO, RAB
Protein Families:	Druggable Genome
Gene Summary:	This gene is a member of the RAB gene family which belongs to the RAS GTPase superfamily. The proteins in the family of RAS-related signaling molecules are small GTP-binding proteins that play important roles in the regulation of exocytotic and endocytotic pathways. This gene maps to the site of an ancestral telomere fusion event and may be a subtelomeric gene. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Apr 2015]

Product images:



Circular map for RG211854