

Product datasheet for **RG233713**

carabin (TBC1D10C) (NM_001256508) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	carabin (TBC1D10C) (NM_001256508) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	carabin
Synonyms:	CARABIN; EPI64C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG233713 representing NM_001256508 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCAGGCCCTGGGGAGGACCTGGTGCAGCCTCCCGAGCTGCAGGATGACTCCAGCTCCTTGGGT
CCGACTCAGAGCTCAGCGGGCTGGCCCATATCGCCAGGCCGACCGCTATGGATTCATTGGGGCAGCTC
AGCAGAGCCAGGGCCGGGCCACCCACCTGCAGACCTCATCCGCCAACGGGAGATGAAGTGGTGGAGATG
ACCTCGCACTGGGAGAAAACCATGTCCCGCGGTACAAGAAGTAAAGATGCAGTGCCGAAAGGCATCC
CGTCTGCCCTGCGCGCCCGATGCTGGCCCTGTTGTGTGGGGCCCATGTGTGCCAGAAGAACAGCCCTGG
CACCTATCAGGAGCTGGCAGAGGCCCTGGAGACCCACAGTGGATGGAGACCATTTGCCAGGGACCTGCAC
CGTCAATTCCTCTGCACGAGATGTTTGTGTGCCTCAGGGCCACGGCAGGGGCTCCTGCAGGTGCTCAA
GGCCTACACCCTGTATCGACCGAGCAGGGCTACTGCCAGGCCAGGGGCCCGTGCTGTGTGCTGCTC
ATGCACCTGCCCCAGAGGAGGCCTTCTGGTGCCTGGTGCAGATCTGTGAGGTCTACCTCCCTGGTACT
ACGGGCCCCACATGGTGCCAGAGTACTGTTCCGTGTGGGGCTGACACTGGTGCCTGGCGCTGGGCACT
GCAGAGCAGCGAGGGCCTGCCCTGGCCTCCTGGAGACACTGGGAGCCCTTCGAGCCATCCCCCGCGC
AGCTGCAGGAGGAGGCCTTCATGTACAGGTGCACAGCGTGGTGTGTGAGAGCGGGACCTGCAGCGGA
GATCAAGGCCAGCTGGCCAGCTGCCGATTCCGCGCCGGGACCCCGCCCGGCCACAGGTCCGCCTC
GCCGGGGCCCAAGCCATCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG233713 representing NM_001256508
 Red=Cloning site Green=Tags(s)

MAQALGEDLVQPPELQDDSSSLGSDSELSGPGPYRQADRYGFIGGSSAEPGPGHPPADLIRQREMKWVEM
 TSHWEKTMSRRYKKVKMQCRKGIPSALRARCWPLLCGAHVCQKNSPGTYQELAEAPGDPQWMETIGRDLH
 RQFPLHEMFVSPQGHGRGSCRCRPTPCIDRSRATARPRGPWLLCCSCTCPQRRPSGAWCRSVRSTSLGT
 TGPTWCQSTVPCGADTGAPGAGHCRAARGLPWPPGDTGSPSSHPRAAAGGGLHVTGAQRGAVRAGPAAG
 DQGPAGPAARFRAGTPAPATGPPRRGPSHL

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001256508

ORF Size: 930 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_001256508.1](#), [NP_001243437.1](#)

RefSeq Size: 1541 bp

RefSeq ORF: 933 bp

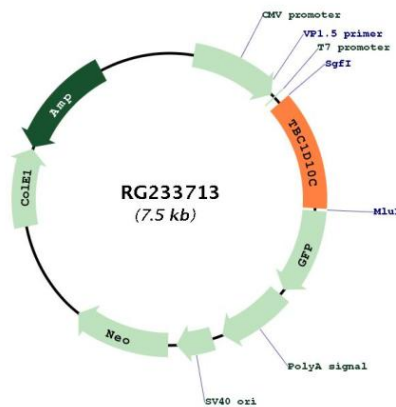
Locus ID: 374403

UniProt ID: [Q8IV04](#)

Cytogenetics: 11q13.2

Gene Summary: The protein encoded by this gene has an N-terminal Rab-GTPase domain and a binding site at the C-terminus for calcineurin, and is an inhibitor of both the Ras signaling pathway and calcineurin, a phosphatase regulated by calcium and calmodulin. Genes encoding similar proteins are located on chromosomes 16 and 22. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jan 2013]

Product images:



Circular map for RG233713