

Product datasheet for **RG202548**

RTKN (NM_001015056) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RTKN (NM_001015056) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	RTKN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG202548 representing NM_001015056
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGTTCTCCCGAAACCACCGGAGCCGGGTACCGTGGCCAGGGGCTCCGCCCTGGAGATGGAGTTCAAAC
 GCGGCCGCTTCCGACTCAGCCTCTTCAGCGACCTGCCCGAGGACACGGAGTTGCAGAGGAAGCTAGACCA
 TGAGATCCGGATGAGGGAAGGGGCTGTAAGCTGCTGGCAGCCTGCTCCAGCGAGAGCAGGCTCTGGAG
 GCCACCAAGAGCCTGCTAGTGTGCAACAGCCGCATCCTCAGCTACATGGGCGAGCTGCAGCGGCGCAAGG
 AGGCGCAGGTGCTGGGAAGACAAGCCGCGGCCCTTCTGACAGTGGCCCGCCCGTGAGCGCTCCCCCTG
 CCGCGGCCGGGTCTGCATCTCTGACCTCCGATTCCACTCATGTGAAGGACACAGAATATTTCAAGAAC
 AAAGGTGACTTGACCGCTGGGCTGTGTTCTGCTGCTGCAGTGGGGGAACACATCCAGGACACAGAGA
 TGATCCTAGTGGACAGGACCTCACAGACATCTCCTTTCAGAGCAATGTGCTCTTCGCTGAGGCGGGGCC
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 ACAGTGTGGGGTTTCAAGGAGCAGTCCCATCTTGCTCCCCACCCAGTTGTTGGTGGTCTCGTTACCA
 CCTCTTGCTCACACCACACTCACCTGGCAGCAGTGAAGATGGATTCCGCACACATGACCTCACCCCTT
 GCCAGTCATGAGGAGAACCCTGCCTGGCTGCCCTTTATGGTAGCGTGTGTTGCCGTCTGGCAGCTCAGC
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 GACAGAAAGTCGGGAAGCACTGCAGAGCTGGATGGAGGCTCTGTGGCAGCTTTTCTTTGACATGAGCCAA
 TGAAGCAGTGTGTGATGAAATCATGAAATGAAACTCCTGTCCCCGAAACCAACCCCAAGCACTGG
 CAAAGCAGGGGTCTTGTACCATGAGATGGCTATTGAGCCGCTGGATGACATCGCAGCGGTGACAGACAT
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 GCCCTGCCTAACCCTGCTCGCTGCCTCAGTGGCCCCAGCCCCAGACTGGACCCACCCCTGCCCTGGG
 GGAGACCCCGAACCTTTTCCCTGGATGCTGTCCCCCAGACCACTCCCCTAGGGCTCGCTCGGTTGCCCC
 CCTCCACCTCAGCGATCCCAACGACAGAGGCTCTGCAGCAAAGGCCAACCTCGCACTTGGCTCCAG
 TCACCACTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

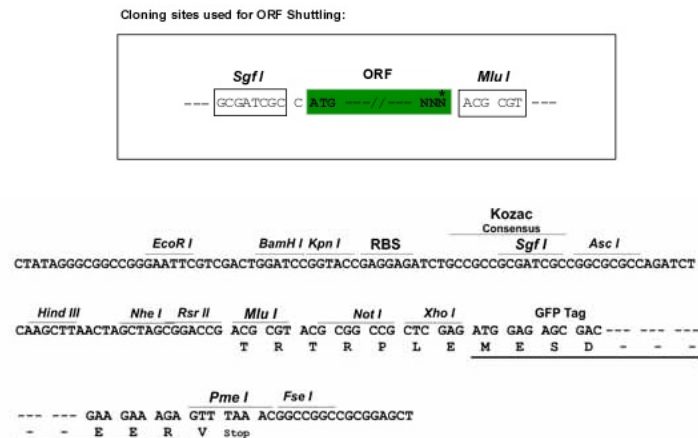
>RG202548 representing NM_001015056
 Red=Cloning site Green=Tags(s)

MFSRNHRSRVTVARGSALEMEFKRGRFRLSLFSDLPEDTELQRKLDHEIRMREGACKLLAACSQREQALE
 ATKSLVCNSRILSYMGELOQRKEAQLGKTSRRPSDSGPPAERSPCRGVCSIDLRIPLMWKDTEYFKN
 KGDHLRWAVFLLQLGEHIQDTEMILVDRTLDISFQSNVLF AEAGPDFELRLELYGACVEEAGLTGGP
 KRLATKLSSSLGRSSGRVRASLDSAGSGSSPILLPTPVVGGPRYHLLAHTTLTAAVQDGFRTHDLTL
 ASHEENPAWLPLYGSVCRLAAQPLCMTQPTASGTLRVQQAQEMQNWAVHGVKGTNLFYCRQPEDADT
 GEEPLLTIAVNKETRVIRAGELDQALGRPFTLSISNQYGDDEVHTLQTESREALQSWMEALWQLFFDMSQ
 WKQCCDEIMKIETPAPRKPPQALAKQGSLYHEMAIEPLDDIAAVTDILTQREGARLETPPPWLAMFTDQP
 ALPNPCSPASVAPAPDWTPLPWGRPRTFSLDAVPPDHSPRARSVAPLPPQRSRPRTRGLCSKGQPRTWLQ
 SPV

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001015056

ORF Size: 1692 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_001015056.1](#), [NP_001015056.1](#)

RefSeq Size: 2211 bp

RefSeq ORF: 1542 bp

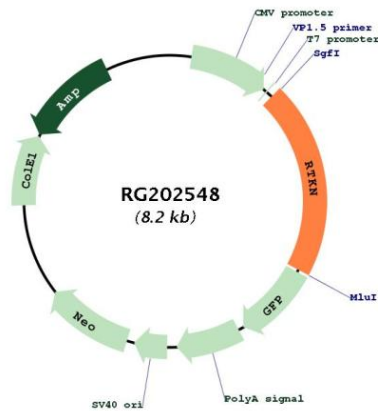
Locus ID: 6242

UniProt ID: [Q9BST9](#)

Cytogenetics: 2p13.1

Gene Summary:

This gene encodes a scaffold protein that interacts with GTP-bound Rho proteins. Binding of this protein inhibits the GTPase activity of Rho proteins. This protein may interfere with the conversion of active, GTP-bound Rho to the inactive GDP-bound form by RhoGAP. Rho proteins regulate many important cellular processes, including cytokinesis, transcription, smooth muscle contraction, cell growth and transformation. Dysregulation of the Rho signal transduction pathway has been implicated in many forms of cancer. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008]

Product images:


Circular map for RG202548