

Product datasheet for **SC301995**

RTKN (NM_001015055) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RTKN (NM_001015055) Human Untagged Clone
Tag:	Tag Free
Symbol:	RTKN
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC301995 representing NM_001015055.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGTTCTCCCGAAACCACCGGAGCCGGTCAACCGTGCCAGGGGCTCCGCCCTGGAGATGGAGTTCAAA
CGCGCCCGCTTCGACTCAGCCTTTAGCGACTGCCGAGGACACGGAGTTGCAGAGGAAGCTAGAC
CATGAGATCCGGATGAGGGAAGGGGCTGTAAGCTGCTGGCAGCCTGCTCCAGCGAGAGCAGGCTCTG
GAGGCCACCAAGAGCCTGCTAGTGTGCAACAGCCGCATCCTCAGCTACATGGGCGAGCTGCAGCGGCGC
AAGGAGGCGCAGGTGCTGGGGAAGACAAGCCGGCGGCCTTCTGACAGTGGCCCGCCGCTGAGCGCTCC
CCCTGCCGCGCCGGGTCTGCATCTCTGACCTCCGGATCCACTCATGTGGAAGGACACAGAATATTTT
AAGAACAAGGTGACTTGACCGCTGGGCTGTGTTCTGCTGCTGCAGCTGGGGAAACACATCCAGGAC
ACAGAGATGATCCTAGTGGACAGGACCCTCACAGACATCTCTTTAGAGCAATGTCTCTTCGCTGAG
GCGGGGCCAGACTTTGAAGTGGGTTAGAGCTGTATGGGGCTGTGTGGAAGAAGAGGGGCCCTGACT
GGCGGCCCAAGAGGCTTCCACCAAACTCAGCAGCTCCCTGGGCGCTCCTCAGGGAGGCGTGTCCGG
GCATCGCTGGACAGTGTGGGGTTTCAGGGAGCAGTCCCATCTTGTCTCCACCCAGTTGTTGGTGGT
CCTCGTTACCACCTCTTGCTCACACCACACTCACCTGGCAGCAGTGAAGATGGATTCCGCACACAT
GACCTCACCTTGCCAGTCATGAGGAGAACCCTGCCTGGCTGCCCTTTATGGTAGCGTGTGTTGCCGT
CTGGCAGCTCAGCCTCTCTGCATGACTCAGCCACTGCAAGTGGTACCCTCAGGGTGCAGCAAGCTGGG
GAGATGCAGAAGTGGGCAAGTGCATGGAGTTCTGAAAGGCACAAACCTCTTCTGTTACCGGCAACCT
GAGGATGCAGACTGGGGAAGAGCCGCTGCTTACTATTGCTGTCAACAAGGAGACTCGAGTCCGGGCA
GGGAGCTGGACCAGGCTTAGGACGGCCCTTACCCTAAGCATCAGTAACCAGTATGGGATGATGAG
GTGACACACACCCTTACAGACAGAAAGTCGGGAAGCACTGCAGAGCTGGATGGAGGCTCTGTGGCAGCTT
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AAACCACCCAAGCACTGGCAAAGCAGGGTCTTGTACCATGAGATGGCTATTGAGCCGCTGGATGAC
ATCGCAGCGGTGACAGACATCCTGACCCAGCGGGAGGGCGCAAGGCTGGAGACACCCCCACCCTGGCTG
GCAATGTTTACAGACCAGCCTGCCCTGCCTAACCCCTGCTCGCTGCCTCAGTGGCCCCAGCCCCAGAC
TGGACCCACCCCTGCCCTGGGGAGACCCGAACCTTTCCCTGGATGCTGTCCCCCAGACCCTCC
CCTAGGGCTCGCTCGGTTGCCCCCTCCACCTCAGCGATCCCCACGGACCAGAGGCTCTGCAGCAA
GGCCAACCTCGCACTTGCTCCAGTACCAGTTGA
ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_001015055

Insert Size: 1692 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001015055.1](#)

RefSeq Size: 2208 bp

RefSeq ORF: 1692 bp

Locus ID: 6242

UniProt ID: [Q9BST9](#)

Cytogenetics: 2p13.1

MW: 62.7 kDa

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]

Transcript Variant: This variant (1) encodes the longest isoform (a).