

Product datasheet for **SC215786**

ROCK1 (NM_005406) Human 3' UTR Clone

Product data:

Product Type:	3' UTR Clones
Product Name:	ROCK1 (NM_005406) Human 3' UTR Clone
Vector:	pMirTarget (PS100062)
Symbol:	ROCK1
Synonyms:	P160ROCK; ROCK-I
ACCN:	NM_005406
Insert Size:	2000 bp



[View online »](#)

Insert Sequence: >SC215786 3'UTR clone of NM_005406
 The sequence shown below is from the reference sequence of NM_005406. The complete sequence of this clone may contain minor differences, such as SNPs.
 Blue=Stop Codon Red=Cloning site

```

GGCAAGTTGGACGCCCGCAAGATCCGCGAGATTCTCATTAAAGCCAAGAAGGGCGGAAAGATCGCCGTG
TAACAATTGGCAGAGCTCAGAATTCAAGCGATCGCC
GTCAAAAATACATCTGGAAAACTAGTAAACCATGTGACTGAGTGCCTGTGGAATCGTGTGGGATGCT
ACCTGATAAACCAGGCTTCTTTAACCATGCAGAGCAGACAGGCTGTTTCTTTGACACAAATATCACAGG
CTTCAGGGTTAAGATTGCTGTTTTCTGCTTCTTGGCACAACACACTGAGGGTTTTTTTTATTGTC
GGGTTTGCTACAGGTAGATTAGATTAATTATTACTATGTAATGCAAGTACAGTTGGGGAAAGCTTAG
GTAGATATATTTTTTTAAAAGGTGCTGCCTTTTTGGATTATAAGAAAATGCCTGTCAGTCGTGATAG
AACAGAGTTTTCTCATATGAGTAAGAGGAAGGGACTTTCACCTTCAAGTGAACAGCCATCACTATCA
AGATCAGCTCATGAAGGAGTAAAGAAAATATCTCAAAATGAGACAACTGAAGTTTTGTTTTTTTTT
AATGACTTAAGTTTTGTGCTCTTGCAAGACTATACAAAATATTTAAGAAAGCAGTGATCACTTG
AACTTCAGTGCCCTCACTGTAGAATTTAAAAGCCTTACTGTTGATTGCCCATGTTGGACTTGATGGAGA
AATTAATATCTTTCATTATGCTTTACAAAATCTGTATATGTTTCAGCAAGTTTGGGGAATGGGAGAG
GACAAAAAAAAGTTACATTTAATCTATGCATTTTTGCCAAGCCATATTGAGTTATTTTACTACTAGAGA
CATTAGGAAAACAACTGTACAAAAGAACCAAGTTAAAAGCATTGTTGGGGTACATCATTTCTATAAT
TGTATAATGTATTTCTTTGTGGTTTTAAATGATAAAGACATTAAGTTAACAAACATATAAGAAATGTAT
GCACTGTTTGAATGTAATTTACTGCCATGAGTAAGTATAGAAAATTTCAAAAAATGTATTTTCAAAAAAT
AATTTGAGATAATTTTACTGCCATGAGTAAGTATAGAAAATTTCAAAAAATGTATTTTCAAAAAAT
ATGTGTGCAGTGAGTTTTTTCATTGATAATTGGTTTAAATTTAAAATATTTAGAGGTTTGTGGACTTTC
ATAAATTGAGTACAATCTTTGCATCAAACTACCTGCTACAATAATGACTTTATAAACTGCAAAAAATG
TAGAAGGTTGCACCAACATAAAAAGAAAATATGGCAATACATCCATGATGTTTTCCAGTTAACATAGGA
ATTACCAGATAAACTGTTAACTCTTGTCCAGTAACAAGAGTTGATTCATATGGACAGTATGATTTA
TTGTTTATTTTTTAACCAAACTCCTCCTCAGTAATTTATAATGGCTTTGCAGTAATGTGTATCAGATA
AGAAGCACTGGAAAACCGATCGTCTCTAGGATGATATGCATGTTTCAAGTGGTATTGAAAGCCGCACTG
ATGGATATGTAATAATAACATATCTGTTAATAATACTAATGACTCTGTGCTCATTTAATGAGAAAT
AAAAGTAATTTATGGATGGGTATCTTTAATTTTTACTGCAATGTGTTTTCTCATGGCTGAAATGAATGG
AAAACATACTTCAAATTAGTCTCTGATTGTATATAAATGTTTGTGAAATCCATGGTTAGATTAAGTG
TATTTTTAAAAGATAAAACGTGGTCTTGGGCTCTAAAACAAGAGTGGGAATAGTTCACATGAAAAGCTG
GCTAAAGTGTGTTGAAAACAATCTCCATGGGTCTTTCATTTCTACACATCAGGGAAGCAGAGGCT
CTGACAACCTTTCTTTGACTATCTTTTCCAAGGATATTTATGTAGTAAACAGCCTTGGAAAGATAGAGT
TCTCCCTGTGAGGATGTCGGGTCTTTTACTGTCCAGTATAATAAGATAACGCTCTCCACCTATGAT
GCAAACCACTGTGTGCTCAGCACCCACCTGGGCCACTCTGCATTGCCACATGGGGCTTGGAGGGCA
ACGCGT AAGCGGCCGCGGCATCTAGATTCAAGAAAATGACCGACCAAGCGACGCCCAACCTGCCATCA
CGAGATTCGATTCCACCGCCGCTTCTATGAAAGG
  
```

Restriction Sites: SgfI-MluI

OTI Disclaimer: Our molecular clone sequence data has been matched to the sequence identifier above as a point of reference. Note that the complete sequence of this clone is largely the same as the reference sequence but may contain minor differences, e.g., single nucleotide polymorphisms (SNPs).

Components: The cDNA clone is shipped in a 2-D bar-coded Matrix tube as 10 ug dried plasmid DNA. The package also includes 100 pmols of both the corresponding 5' and 3' vector primers in separate vials.

RefSeq: [NM_005406.3](#)

Summary: This gene encodes a protein serine/threonine kinase that is activated when bound to the GTP-bound form of Rho. The small GTPase Rho regulates formation of focal adhesions and stress fibers of fibroblasts, as well as adhesion and aggregation of platelets and lymphocytes by shuttling between the inactive GDP-bound form and the active GTP-bound form. Rho is also essential in cytokinesis and plays a role in transcriptional activation by serum response factor. This protein, a downstream effector of Rho, phosphorylates and activates LIM kinase, which in turn, phosphorylates cofilin, inhibiting its actin-depolymerizing activity. A pseudogene, related to this gene, is also located on chromosome 18. [provided by RefSeq, Aug 2015]

Locus ID: 6093

MW: 77.5