

Product datasheet for SC117625

RHOB (NM_004040) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	RHOB (NM_004040) Human Untagged Clone
Tag:	Tag Free
Symbol:	RHOB
Synonyms:	ARH6; ARHB; MST081; MSTP081; RHOH6
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC117625 sequence for NM_004040 edited (data generated by NextGen Sequencing)

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ATGGCGCCATCCGCAAGAAGCTGGTGGTGGTGGGCGACGGCGCTGTGGCAAGACGTGC
CTGCTGATCGTGTTCAGTAAGGACGAGTCCCGAGGTGTACGTGCCACCGTCTTCGAG
AACTATGTGGCCGACATTGAGGTGGACGCAAGCAGGTGGAGCTGGCGCTGTGGACACG
GCGGGCCAGGAGGACTACGACCGCTGCGGCCGCTCTCCTACCCGGACACCGACGTATT
CTCATGTGCTTCTCGGTGGACAGCCCGACTCGCTGGAGAACATCCCGAGAAAGTGGGTC
CCCGAGGTGAAGCACTTCTGTCCCAATGTGCCATCATCTGGTGGCCAACAAAAAGAC
CTGCGCAGCGACGAGCATGTCCGCACAGAGCTGGCCCGCATGAAGCAGGAACCCGTGCGC
ACGGATGACGGCCGCGCCATGGCCGTGCGCATCCAAGCCTACGACTACCTCGAGTGCTCT
GCCAAGACCAAGGAAGGCGTGC GCGAGGTCTTCGAGACGCCACGCGCGCCGCTGCAG
AAGCGCTACGGCTCCAGAACGGCTGCATCAACTGCTGCAAGGTGCTATGA

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Clone variation with respect to NM_004040.2



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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_004040 unedited CAAATTTTGAATACGACTCACTATAGGGCGGCCGNAATCGGCACGAGGGCCCCGCTC ATGGCGGCCATCCGCAAGAAGCTGGTGGTGGTGGGCGACGGCGCGTGTGGCAAGACGTGC CTGCTGATCGTGTTCAGTAAGGACGAGTTCCCCGAGGTGTACGTGCCACCGTCTTCGAG AACTATGTGGCCGACATTGAGGTGGACGGCAAGCAGGTGGAGCTGGCGCTGTGGGACACG GCGGGCAGGAGGACTACGACCGCTGCGGCCGCTCTCCTACCCGGACACCGACGTCATT CTCATGTGCTTCTCGGTGGACAGCCCGGACTCGCTGGAGAACATCCCCGAGAAGTGGGTC CCCGAGGTGAAGCACTTCTGTCCAATGTGCCATCATCCTGGTGGCCAACAAAAAGAC CTGCGCAGCGACGAGCATGTCCGCACAGAGCTGGCCCGCATGAAGCAGGAACCCGTGCGC ACGGATGACGGCCGCGCCATGGCCGTGCGCATCCAAGCCTACGACTACCTCGAGTGTCT GCCAAGACCAAGGAAGGCGTGCGCGAGGTCTTCGAGACGGCCACGCGCGCCGCGTGCAG AAGCGCTACGGCTCCCAGAACGGCTGCATCAACTGCTGCAAGGTGCTATGAGGGCCGCGC CCGTGCGCCCTGCCCTGCCGGCAGGCTCCCCCTCTGGACCAGTCCCCCGGAGCCCCG GAGAAGGGGAGACCCGTGTCCACAGGACCCACCGGCCTGCCTGGCATCTGTCTGTGA CGCTCTGGCTTGCGCCAGGACTTGGCGTGGGCACCGGGCGCCCATCCAGTGTCTGT GTGCGTCCAGCTGTGTTGCACAGCCTGGGCTCCCACTGAGTGCCAAGGTCCCCTGAGCA TGCTTTCTGAGAGCCGGCTCANATGTGTGCTGGTGTCTGTGACTCCCTCGCCATTTC ACCCACCCGCTCTGTCC
Restriction Sites:	NotI-NotI
ACCN:	NM_004040
Insert Size:	2000 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).
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:	<ol style="list-style-type: none"> 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_004040.2 , NP_004031.1
RefSeq Size:	2384 bp
RefSeq ORF:	591 bp
Locus ID:	388
UniProt ID:	P62745
Cytogenetics:	2p24.1
Domains:	ras, RAS, RHO, RAB

Protein Families: Druggable Genome

Gene Summary: Mediates apoptosis in neoplastically transformed cells after DNA damage. Not essential for development but affects cell adhesion and growth factor signaling in transformed cells. Plays a negative role in tumorigenesis as deletion causes tumor formation. Involved in intracellular protein trafficking of a number of proteins. Targets PKN1 to endosomes and is involved in trafficking of the EGF receptor from late endosomes to lysosomes. Also required for stability and nuclear trafficking of AKT1/AKT which promotes endothelial cell survival during vascular development. Serves as a microtubule-dependent signal that is required for the myosin contractile ring formation during cell cycle cytokinesis. Required for genotoxic stress-induced cell death in breast cancer cells.[UniProtKB/Swiss-Prot Function]