

Product datasheet for **SC107439**

NORE1 (RASSF5) (NM_182665) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NORE1 (RASSF5) (NM_182665) Human Untagged Clone
Tag:	Tag Free
Symbol:	RASSF5
Synonyms:	Maxp1; NORE1; NORE1A; NORE1B; RAPL; RASSF3
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_182665, the custom clone sequence may differ by one or more nucleotides

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ATGACCGTGGACAGCAGCATGAGCAGTGGGTTACTGCAGCCTGGACGAGGAACTGGAAGACTGCTTCTTCA
CTGCTAAGACTACCTTTTTTCAGAAATGCGCAGAGCAAACATCTTTCAAAGAATGTCTGTAAACCTGTGGA
GGAGACACAGCGCCCGCCACACTGCAGGAGATCAAGCAGAAGATCGACAGCTACAACACGCGAGAGAAG
AACTGCCTGGGCATGAACTGAGTGAAGACGGCACCTACACGGGTTTCATCAAAGTGCATCTGAAACTCC
GGCGGCTGTGACGGTGCCTGCTGGGATCCGGCCCGAGTCCATCTATGATGCCATCAAGGAGGTGAACCT
GGCGGCTACCACGGACAAGCGGACATCCTTCTACCTGCCCTAGATGCCATCAAGCAGCTGCACATCAGC
AGCACCACCACCGTCAGTGAGGTCATCCAGGGGCTGCTCAAGAAGTTCATGGTTGTGGACAATCCCCAGA
AGTTTGCACCTTTTAAAGCGGATACACAAGGACGGACAAGTGTCTTCCAGAACTCTCCATTGCTGACCG
CCCCCTTACCTGCGCCTGCTTGTGGCCTGACACGGAGGTCCTCAGCTTTGTGCTAAAGGAGAATGAA
ACTGGAGAGGTAGAGTGGGATGCCTTCTCCATCCCTGAACCTCAGAACTCCTAACAACTCTGAAAAAG
AGGAGCAGGACAAAATCCAACAAGTGCAAAAAGAAGTATGACAAGTTTAGGCAGAACTGGAGGAGGCCTT
AAGAGAATCCCAGGGCAAACCTGGGTAA
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_182665 unedited CTTGTCAATTTGTATACGATACTATAGGCGGCACGCGAATTCGCACCAGGGGAGGCGGG GGAGGTGCGGAGATGGCGCTCTGCACGGCGGCGGAGGGAGGGCGCTGGCGCCGGGGACAC GAAACCGCATAGCCCGGACGAGTCAGGGAGTGAGGCGGAGCCGGGCGCCCGGGGCTCTG CAGGCGCAGGCGGCGCGGGGACAGGAGCAGGTTACCGGGCCGCCGAGCGCTCGCACCCC GCTGAAAGAAACGCATGCGGCCCGCCGGCTCTGCCTGGTCCGCTACCCGACCAGTCCCG GCTCGGGGCTCATAGCTAGGGGTTACGCCAAGCGGAGCCCGGGGAGGGGTGCCACCTC CCTCCGCGCATCCCAAGCCCGCCCTTGATGCGCTGGCGGCCTCGGCCGGAACCTCC GGGGTAGATGACCGTGGACAGCAGCATGAGCAGTGGGTAAGTGCAGCCTGGACGAGAACT GGAAGACTGCTTCTTCACTGCTAAGACTACCTTTTTTCAGAAATGCGCAGAGCAAACATCT TTCAAAGAATGTCTGTAACCTGTGGAGGAGACACAGCGCCCGCCACACTGCAGGAGAT CAAGCAGAAGATCGACAGCTACAACACGCGAGAGAAGAACTGCCTGGGCATGAACTGAG TGAAGACGGCACCTACACGGTTTCATCAAAGTGCATCTGAAACTCCGGCGGCCTGTGAC GGTGCCTGCTGAGATCCGGCCCCAGTCCATCTATGATGCCATCAATGATGTGAACCTGGC GGCTACCACGGACAAGCGGACATCCTTCTACCTGCCCTATATGCCATCAAGCAGCTGCA CATCAGCAGCACCCACCGTCAGTGATGTCATCCANGGGCTGCTCAAGATGTCATGGCTG TGGGACATCCCAGAAGTTTGCACTTTTTAAGCGATACACAG
Restriction Sites:	NotI-NotI
ACCN:	NM_182665
Insert Size:	3700 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:	<u>NM_182665.1</u> , <u>NP_872606.1</u>
RefSeq Size:	3531 bp
RefSeq ORF:	3531 bp
Locus ID:	83593
UniProt ID:	<u>Q8WWW0</u>
Cytogenetics:	1q32.1
Protein Families:	Druggable Genome
Protein Pathways:	Leukocyte transendothelial migration, Non-small cell lung cancer, Pathways in cancer

Gene Summary:

This gene is a member of the Ras association domain family. It functions as a tumor suppressor, and is inactivated in a variety of cancers. The encoded protein localizes to centrosomes and microtubules, and associates with the GTP-activated forms of Ras, Rap1, and several other Ras-like small GTPases. The protein regulates lymphocyte adhesion and suppresses cell growth in response to activated Rap1 or Ras. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (3), also known as transcript B, differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at an alternate start codon, compared to variant 1. The resulting isoform (C), also known as NORE1B, is shorter and has a distinct N-terminus when compared to isoform A.