

Product datasheet for **RG215017**

NORE1 (RASSF5) (NM_182663) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NORE1 (RASSF5) (NM_182663) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NORE1
Synonyms:	Maxp1; NORE1; NORE1A; NORE1B; RAPL; RASSF3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG215017 representing NM_182663 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCCATGGCGTCCCCGGCCATCGGGCAGCGCCCGTACCCGCTACTCTTGGACCCCGAGCCGCCGCGCT
ATCTACAGAGCCTGAGCGGCCCGAGCTACCGCCGCCGCCCGGACCGGTCTCGCGCCTCTGTGTCCC
GGCGCCCTCTCCACTGCGCCCGGGGCGCGGAGGGGCGCAGCGCCCGGAGGGCTGCCCGGGGAACCTG
GAGCCCCCGCCCGGGCCTCCCGACCCGCTCGCCCGCTCCGGCCTGGTCTGCAGCAGAGACTGCGGCGGC
GGCCTGGAGCGCCCCGACCCCGGACGTGCGGAGCATCTTCGAGCAGCCGAGGATCCCAGAGTCCCGGC
GGAGCGAGGGCAGGGGCACTGCTTCGCCGAGTTGGTGCTGCCGGCGGCCCGGCTGGTGTGACCTGTGC
GGACGAGAGGTGCTGCGGCAGGCCTGCGCTGCACTAACTGTAATTCACCTGTCAACCCAGAATGCCGCA
GCCTGATCCAGTTGGACTGCAGTCAGCAGGAGGGTTTATCCCGGGACAGACCCTCTCCAGAAAGCACCTT
CACCGTGACCTTCAGCCAGAATGTCTGTAACCTGTGGAGGAGACACAGCGCCCGCCCACTGCAGGAG
ATCAAGCAGAAGATCGACAGCTACAACACGCGAGAGAAGAAGTGCCTGGGCATGAACTGAGTGAAGACG
GCACCTACACGGGTTTCATCAAAGTGCATCTGAACTCCGGCGGCTGTGACGGTGCCTGCTGGGATCCG
GCCCCAGTCCATCTATGATGCCATCAAGGAGGTGAACCTGGCGGCTACCACGGACAAGCGGACATCCTTC
TACCTGCCCTAGATGCCATCAAGCAGCTGCACATCAGCAGCACCACCCTCAGTGAAGTGCATCCAGG
GGCTGCTCAAGAAGTTCATGGTTGTGGACAATCCCGAGAAGTTTGCACCTTTTAAAGCGGATACACAAGGA
CGGACAAGTGCTCTCCAGAACTCTCCATTGCTGACCGCCCTCTACCTGCGCCTGCTTGTGGCCT
GACACGGAGGTCCTCAGCTTTGTGCTAAAGGAGAATGAACTGGAGAGGTAGAGTGGGATGCCTTCTCCA
TCCCTGAACCTCAGAACTTCTAACAATCCTGGAAAAAGAGGAGCAGGACAAAAATCCAACAAGTGAACAA
GAAGTATGACAAGTTTAGGCAGAACTGGAGGAGGCTTAAGAGAATCCAGGGCAAACCTGGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG215017 representing NM_182663
Red=Cloning site Green=Tags(s)

MAMASPAIGQRPYPLLLDPEPPRYLQSLSGPELPPPPDRSSRLCVPAPLSTAPGAREGRSARRAARGNL
 EPPPRASRPAPRLRPLRGLQQRLRRRPGAPRPRDVRSI FEQPQDPRVPAEREGHCF AELVLPGGPGWCDLC
 GREVLRQALRCTNCKFTCHPECRSLIQLDCSQQEGLSRDRPSPSTLTVTF SQNVCKPVEETQRPPTLQE
 IKQKIDSYNTREKNCLGMKLSDEGTYTGF IKVHLKLRPVTVPAGIRPQSIYDAI KEVNLAAATDKRTSF
 YLPLDAIKQLHISSTTTVSEVIQGLLKKFMVVDNPQKFA LFKRIHKDGGVLFQKLSIADRPLYLRLLAGP
 DTEVLSFVLKENETGEVEWDAFSIPELQNFLTILEKEEQDKIQQVQKKYDKFRQKLEEALRESQGKPG

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_182663

ORF Size: 1254 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_182663.1](#), [NP_872604.1](#)

RefSeq Size: 2048 bp

RefSeq ORF: 1257 bp

Locus ID: 83593

UniProt ID: [Q8WWWW0](#)

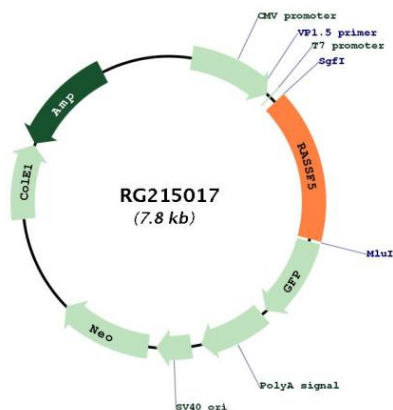
Cytogenetics: 1q32.1

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]

Product images:



Circular map for RG215017