

Product datasheet for **MR207200**

Rhpn1 (BC052010) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Rhpn1 (BC052010) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Rhpn1
Synonyms:	BB023497; Grbp; mKIAA1929; Rhophilin
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207200 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGATCCTTGAGGAGAGGCCAGATGGCCAGGGCACTGGCGAGGAAAGCTCTCGGCCGAGGACGACGGCA
 GCATCCGCAAGGGCTATGGCTCCTTTGTGCAAAACAGCCTGGCCAGCTGCAGAGTCACAGGGCTCGGCT
 CCACCAGCAGATCAGCAAGGAGCTCCGGATGCGGACCGGTGCTGAAAACCTCTACAGAGCCACCAGCAAC
 ACCTGGGTCGAGAAACAGTCGCACTGGAGCTGAGCTACGTCAACTCCAACCTGCAGCTGCTGAAAGAGG
 AGCTGGCAGAGCTGAGCACCAGCGTAGATGTGGACCAGCCAGAGGGCGAAGGGATTACTATTCATGAT
 CCCCTGGGGCTGAAGGAAACCAAGGAGTTGGACTGGGCCACACCGCTGAAGGAGCTGATCTCTGAGCAC
 TTTGGAGAGGATGGTACCTCCTTTGAGACAGAGATCCAGGAAGTGAAGACCTACGGCAGGCCACGAGGA
 CTCCCAGCAGGGACGAGGCGGGCTGGATCTGCTCGCAGCCTACTATAGCCAGCTCTGTTTCCTGGACGC
 ACGTTTCTTCAGTCCCTCCAGGAGCCCCGGGCTGCTCTTCCACTGGTACGACTCGCTCAGGGGGTCCCG
 GCACAGCAGCGGGCTCTGGCCTTCGAGAAGGGCAGTGTACTGTTAACATTGGGGCACTCCACACGAGA
 TTGGAGCACGGCAGGATTGCTCCTGCACCGAGGGCACCACACGCTGCTGAGGCTTTCCAGAGGGCTGC
 TGGGGCCTTCAGACTCCTGAGGGAGAATTCTCCACGCGCCAAGCCAGACATGAGTGCTGCCTCTCTC
 TCCATGCTGGAGCAGCTCATGATTGCCAGGCACAGGAATGCATCTTCAAGGGCCTTTTACTGCCAGCCT
 CTGCCACACCTGACATCTGTCCAGATCACTGCAGCTGGCCAGGAAGCTGCCAGGTGGCAACTGAATA
 TGGGCTTGTGCACCGGGCCATGGCCAGCCACCTGTCCGAGACTACCTGCCTGCCTCCTGGACTAACCTG
 GCGCAGTCAAGGCTGAGCACTTCTGCGCCTGGCCACTATCATGCAGCCATGGCCCTCTGCGAAAGCC
 ACCCAGCAAGGGTGAAGTCAAGGCAGGAGCAGCTCTTCCAGCCCTCACTCCCCATGAGCCCTGGG
 CCCACACTGCCGAGCAGCCAGAGACCGCAGGAAGCTTGGAGGAGGCGCTGCGGCTTCACACCTTGTG
 CAGAGTCTGCGCAAGGTGGACCTGCTGCAGTTGTGGTGACTCAGGCACTGCGGCGCTCCTGGCCAAG
 TACTCAGCTCGAGCGCAGGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207200 protein sequence
 Red=Cloning site Green=Tags(s)

MILEERPDGQGTGEESRPQDDGSIRKGYGSFVQNQPGQLQSHRARLHQQISKELRMRTGAENLYRATSN
 TWVRETVALELSYVNSNLQLLKEELAELSTSVDVDQPEGEGITIPMIPLGLKETKELDWATPLKELISEH
 FGEDGTSFETEIQELEDLRQATRTPSRDEAGLDLLAAYYSQLCFLDARFFSPSRSPGLLFHWYDSLTVGP
 AQRALAFEGKSVLFNIGALHTQIGARQDCSCTEGTNHAAEFQRAAGAFRLLENF SHAPSPDMSAASL
 SMLEQLMIAQAQECIFKGLLLPASATPDICPDQLLAQEAAQVATEYGLVHRAMAQPPVRDYL PASWTNL
 AHVKAHFCA LAHYHAAMALCESHPAKGELARQEHVFQPSTPHEPLGPTLPQHPEDRRKLGGAASHLV
 QSPAQGGPAAGCGDSGTAAALPGQVLTARAG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: BC052010

ORF Size: 1353 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [BC052010](#), [AAH52010](#)

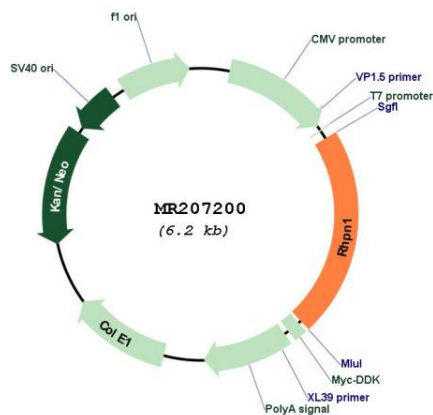
RefSeq Size: 2301 bp

RefSeq ORF: 1355 bp

Locus ID: 14787

Cytogenetics:	15 D3
MW:	49.1 kDa
Gene Summary:	Has no enzymatic activity. May serve as a target for Rho, and interact with some cytoskeletal component upon Rho binding or relay a Rho signal to other molecules.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207200