

Product datasheet for **MR208570**

Grb7 (NM_010346) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grb7 (NM_010346) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Grb7
Synonyms:	mKIAA4028
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208570 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAAGTGGATCTGAGCCGACTCATCTCAGCAGCTCCCAGAAGATGTGTGCCAACTCTGCTACCC
 CTCTGAGACTCCTCCGCCCTGATAACCCTCCGCCAGGGATGTGAAGCGGTCGAGCCTTTGCCAT
 CCCAGCAGCAGGAACTTCGAGAAGAGGAGTTTCAGGCAACCTCTCTGCCTTCCATCCCCAACCCCTC
 CCTGAGCTCTGCAGCCACCTTCACAGAAACCCATTCTTGGTGGTTCTCCGGTGAAGGGGTTGCTTC
 CTCGAGACTCCAGCCGCTCTGTGTGGTGAAGGTGTACAGTGAAGGATGGGGCTGCCGCTGTGGAGGT
 GGCAGCGGGCCACAGCTCGTCACGTGTGTGAGATGCTGGTACAACGAGCTCACGCCCTGAGCGACGAG
 AGCTGGGACTAGTGAATCCCACCCCTACCTGGCACTGGAGCGGGTCTGGAGGACCATGAATTTGTGG
 TGAAGTGCAGGAGCCCTGGCCTGTGGTGGAGACAGCCGCTTCATCTTTCGTA AAAACTCGCCAAGTA
 TGAATATTCAAGAGCCCCCACACCCCTGTTCCAGAAAAGATGGTCTCGAGCTGTCTGGATGCACAA
 ACAGGCATATCCCATGAAGACCTCATCCAGAATTCCTGAACGCTGGCAGCTTCCCTGAGATCCAGGGCT
 TCTGCAGCTGCGGGGATCAGGCCGGGGTTCAGGTCGAAAAGCTTTGAAAACGTTTCTTCTGCTTTCTGCG
 TCGATCTGGCCTCTACTACTCTACCAAGGGTACCTCCAAGGACCCAGACACCTACAGTATGTGGCAGAT
 GTGAATGAGTCCAATGTCTATGTGGTGACCCAGGGCCGAAGCTGTATGGGATGCCCACTGACTTCGGCT
 TCTGTGTCAAGCCCAACAAGCTTCGAAACGGCCACAAGGGGCTCCACATCTTCTGCAGTGAAGTGA
 GAGTGGACCTGCTGGCTGGCTGCCCTCCGGCTCTTCAAGTACGGGTACAGCTATATAAGAATTATCAG
 CAGGCCAGTCTCGTACCTGCCCTATCTATTTGGGGTCTCCACCCTTGAGGAGCGTCTCAGACAATA
 CCCTAGTGGCTATGGACTTCTCTGGCCATGCGGGCGTGTCAATTGATAACCCCGGGAAGCTCAGTGC
 CGCCATGGAGGAGGCCAGCCCTGGAGGAAGAAGACAAAACACCGTCTGAGCCTGCCACCATGCTCT
 GGCTCGAGCCTCAGCGCAGCCATTATCGCACCCAGCCCTGGTTTCATGGACGCATCTCTCGGGAGGAGA
 GCCAGCGGCTAATTGGACAGCAGGGCCTGGTGGATGGTGTGTTCTGGTCCGGGAGAGCCAGAGGAACCC
 ACAGGGCTTTGCTCTGCTTGTGCCATCTGCAGAAAGTCAAGCATTATCTCATTTTGC AAGCGAAGAT
 GAAGGTTGCCTTTACTTCAGCATGGATGAGGGCCAGACCCGTTTACAGACCTGCTGCAGCTGGTAGAAT
 TCCACCAGCTGAACCGAGGCATCTGCCCTGCCTGCTGCGCCACTGCTGTGCCCTGTGGCCCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208570 protein sequence
 Red=Cloning site Green=Tags(s)

MELDLSPTHLSSPEDVCPATPPETPPPPDNPPPGDVKRSQPLIPSSRKLREEEFQATSLPSPINPF
 PELCSPSPKPIILGGSSGARGLLPRDSSRLCVVKVYSEDGACRSVEVAAGATARHVCEMLVQRAHALSDE
 SWGLVESHPLYALERGLDHEFVVEVQEAWPVGGDSRFIFRKNFAKYELFKSPHTLFPEKMOVSSCLDAQ
 TGISHEDLIQNF LNAGSFPEIQGFLQLRSGRSGRKLWKRFFCFLRRSGLYYSTKGTSKDPRHLQYVAD
 VNESNVYVVTQGRKLYGMPTDFGCVKPNKLRNGHKGLHIFCSEDEQSRTCWLAARLKYGVQLYKNYQ
 QAQSRHLRLSYLGSPLRSVSDNTLVAMDFSGHAGRVIDNPREALSAAMEEAQAWRKKTNHRLSLPTTCS
 GSSL SAAIHRTPWFHGRISREESQRLIGQQGLVDGVFLVRESQRNPQGFVLSLCHLQVKHYLILPSED
 EGCLYFSMDEGQTRFTDLLQLVEFHQLNRGILPCLLRHCCARVAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_010346

ORF Size: 1608 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_010346.1](#), [NM_010346.2](#), [NP_034476.1](#)

RefSeq Size: 2413 bp

RefSeq ORF: 1608 bp

Locus ID: 14786

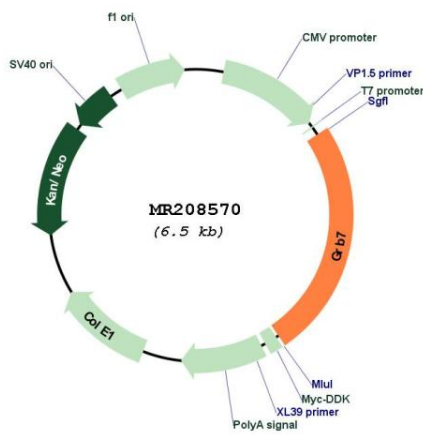
UniProt ID: [Q03160](#)

Cytogenetics: 11 61.75 cM

MW: 60 kDa

Gene Summary: Adapter protein that interacts with the cytoplasmic domain of numerous receptor kinases and modulates down-stream signaling. Promotes activation of down-stream protein kinases, including STAT3, AKT1, MAPK1 and/or MAPK3. Promotes activation of HRAS. Plays a role in signal transduction in response to EGF. Plays a role in the regulation of cell proliferation and cell migration (By similarity). Plays a role in the assembly and stability of RNA stress granules. Binds to the 5'UTR of target mRNA molecules and represses translation of target mRNA species, when not phosphorylated. Phosphorylation impairs RNA binding and promotes stress granule disassembly during recovery after cellular stress.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208570