

Product datasheet for **MC200123**

Grb7 (NM_010346) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grb7 (NM_010346) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Grb7
Synonyms:	mKIAA4028
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC003295 sequence for NM_010346
 CTATATTCTCCCGCTCAACATTCCAAAGCGGGATAGCCTTTCTACCATCTGTAGAGAAGAGAGAAAGG
 ATTCGAAATCAAATCTAAGTGTCTGGGATCTCTAGACAGAGCCAGACTTTGGGCCGGGTGTCCGGCTCCT
 TCTGTTGGAGGTGCTCCAGGTGCCATGGAATGGATCTGAGCCCGACTCATCTCAGCAGCTCCCCAGAAG
 ATGTGTGCCAACTCCTGCTACCCCTCTGAGACTCCTCCGCCCTGATAACCCCTCCGCCAGGGGATGT
 GAAGCGGTGCGAGCCTTTGCCCATCCCCAGCAGCAGGAACTTCGAGAAGAGGAGTTTCAGGCAACCTCT
 CTGCCTTCCATCCCCAACCCCTTCCCTGAGCTCTGCAGCCACCTTCACAGAAACCCATTCTTGGTGGTT
 CCTCCGGTGCAAGGGGGTTGCTTCCTCGAGACTCCAGCCGCTCTGTGTGGTGAAGGTGTACAGTGAGGA
 TGGGGCTGCGGTCTGTGGAGGTGGCAGCGGGCGCCACAGCTCGTCACGTGTGTGAGATGCTGGTACAA
 CGAGCTCAGCCCTGAGCGACGAGAGCTGGGGACTAGTGAATCCCACCCCTACCTGGCACTGGAGCGGG
 GTCTGGAGGACCATGAATTTGTGGTGAAGTGCAGGAGGCTGGCTGTGGGTGGAGACGCCGCTTCAT
 CTTTCGTAAGAACTTCGCCAAGTATGAATATTCAAGAGCCCCCACACCCCTGTTCCAGAAAAGATG
 GTCTCGAGCTGTCTGGATGCACAAACAGGCATATCCATGAAGACCTCATCCAGAACTTCTGAACGCTG
 GCAGCTTCCCTGAGATCCAGGGTTCCTGCAGCTGCGGGGATCAGGCCGGGGTTCAGGTGAAAAGCTTTG
 GAAACGTTTCTTCTGCTTCTGCGTCGATCTGGCCTCTACTACTCTACCAAGGTACCTCCAAGGACCCC
 AGACACCTACAGTATGTGGCAGATGTGAATGAGTCCAATGTCTATGTGGTGACCCAGGGCCCAAGCTGT
 ATGGGATGCCCCACTGACTTCGGCTTCTGTGTCAAGCCCAACAAGCTTCGAAACGGCCACAAGGGGTCCA
 CATCTTCTGCAGTGAGGATGAGCAGAGTCGGACCTGCTGGCTGGCTGCCTTCCGGCTCTTCAAGTACGGG
 GTACAGCTATATAAGAATTATCAGCAGGCCAGTCTCGTCACCTGCGCCTATCCTATTTGGGGTCTCCAC
 CCTTGAGGAGCGTCTCAGACAATACCCTAGTGGCTATGGACTTCTTGGCCATGCGGGGCGTGTCAATTGA
 TAACCCCGGGAAGCTCTGAGTGCCGCCATGGAGGAGGCCAGGCTGGAGGAAGAAGACAAACACCGT
 CTGAGCCTGCCCCACCACATGCTCTGGCTCGAGCCTCAGCGCAGCCATTTCATCGCAGCCAGCCCTGGTTTC
 ATGGAGCATCTCTCGGAGGAGAGCCAGCGGCTAATTGGACAGCAGGGCCTGGTGGATGGTGTGTTCTCT
 GGTCCGGGAGAGCCAGAGGAACCCACAGGGCTTTGTCCTGTCTTGTGCCATCTGCAGAAAGTCAAGCAT
 TATCTCATTTTGCAAGCGAAGATGAAGGTTGCCTTTACTTCAGCATGGATGAGGGCCAGACCCGTTTCA
 CAGACCTGCTGCAGCTGGTAGAATTCCACCAGCTGAACCGAGGCATCCTGCCCTGCCTGTGCGCCACTG
 CTGTGCCCGTGTGGCCCTCTGAGGCCGACAAGCTACTGCAGCCATGGGTTTGCCTACCACCTTTCTGTT
 CTGTGGACTCGGTGCAGGTGGGTGGGTGGTAAACAGTGAAGAGCTCCTCCCCCCCCAATTTTATCCCA
 TTTTTTTAAACCTCTCTCAACCAGTGAACATCCCTAACCTGTCCATCCCTGACTCCTGTCCCCAAG
 GGAGGCATTGTGGTCTGTCCCCTTGGTAGAGCTCCTGAGGTACTGTTCCAGTGAGGGGCATTATGAGAG
 GAGCGGGGAGCCAGGAGGTCTCATACCCACCCGTAATCTGTACAGACTGAGAGGCCAGTTGATCTGC
 TCTGTTTTATACCAGTAACAATAAGATTATTTTTTGATAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_010346

Insert Size: 1608 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:

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: [BC003295](#), [AAH03295](#)

RefSeq Size: 2154 bp

RefSeq ORF: 1608 bp

Locus ID: 14786

UniProt ID: [Q03160](#)

Cytogenetics: 11 61.75 cM

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]