

Product datasheet for **MC218095**

Grb10 (NM_001177629) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grb10 (NM_001177629) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Grb10
Synonyms:	5730571D09Rik; AI325020; Meg1; mKIAA0207
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC218095 representing NM_001177629
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAACAACGATATTAACCTCGTCCGTGGAAAGCCTTAACCTCAGCTTGCAACATGCAGTCTGATACTGATA
 CTGCACCACTTCTTGAGGATGGCCAGCATGCCAGCAACCAGGGAGCAGCATCTAGCTCCCGGGACAGCC
 ACAGGCGTCCCGAGGCAGAAAATGCAACGCTCGCAGCCTGTGCACATTCTCAGGCGCCTTCAGGAGGAA
 GACCAGCAGTTAAGAACTGCATCTCTCCGGCCATCCCCAACCCATTTCCGGAGCTCACTGGTGGCGCC
 CTGGGAGCCCTCCTTCGGTTGCTCCTAGCTCCTTACCTCCTCCTCGAGCCAGCCACCTGCCAAGCATGA
 TGTCAAAGTCTTTAGTGAAGATGGGACCAGCAAAGTGGTGGAGATTCTAACCGACATGACAGCCAGGGAC
 CTGTGCCAGCTGTGGTTACAAAAGTCACTGTGTGGATGACAACAGCTGGACTCTGGTGGAAACACCACC
 CACAACCTGGATTAGAGAGGTGCCTGGAGGACCATGAGATCGTGGTCCAAGTGGAGAGTACCATGCCAAG
 TGAGAGCAAATCTTATTCAGAAAGAATTATGCGAAGTACGAGTCTTTAAGAATCCAGTGAACCTCTTC
 CCGGATCAGATGGTCAATTGGTGGCAGCAGTCCAACGGTGGCCAGGCGCAGCTTCTGCAGAATTTCTGA
 ACACCAGCAGCTGCCCTGAGATCCAGGGGTTCTTGCAAGTGAAGAGGTAGGACGCAAGTCTTGGAAAGAA
 GCTGTATGTGTGCCTGCGCAGATCTGGCCTCTATTACTCCACCAAGGGGACTTCAAAGAACCAGACAC
 CTGCAGCTGTGGCTGACCTGGAAGAAAGCAGCATCTTCTACCTGATTGCTGGAAGAAGCAGTACAACG
 CGCCGAATGAACATGGGATGTGCATCAAGCAAACAAGCGAAGACCGAGATGAAGGAGCTTCGTCTGCT
 CTGTGCCGAAGATGAGCAGATCCGTAATGCTGGATGACTGCCTCAGACTGCTCAAGTACGGAATGCTC
 CTGTACCAAACTATCGCATCCACAGAGGAAGGGTCTGCCCTCCTTTCAACGCACCTATGCGCAGTG
 TTTCTGAGAATTCTTTGTGGCCATGGATTTTTCTGGACAAATCGGAAGAGTGATCGATAACCCGGCTGA
 AGCCCAGAGTGTGCCCTGGAAGAGGGCCATGCCTGGCGTAAGCGGAGCACACGGATGAATATCCTAAGC
 AGCCAAAGCCCACTGCATCCTTCTACCCTGAATGCAAGTATTACAGGACTCAGCATTGGTTCCATGGAC
 GTATCTCCCGGAGGAGTCTCACAGGATCATCAAGCAACAAGGTCTCGTGGACGGGCTGTTCTCCTCTCG
 TGACAGCCAGAGTAATCCAAAGGCGTTCGTAAGTACTGACACTGTGCCATCACCAGAAGATTAATAACTCCAG
 ATCTTACCTTGCAGGATGATGGGCAGACCTTCTTCACTCTGGATGATGGGAACACCAAGTTCTCCGATC
 TGATCCAGCTGGTCGACTTCTACCAGCTCAACAAGGTGTTCTGCCCTGCAAGCTGAAACACCCTGCAT
 CCGCGTGGCCTTA**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001177629

Insert Size: 1626 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: [NM_001177629.1](#), [NP_001171100.1](#)

RefSeq Size: 4764 bp

RefSeq ORF: 1626 bp

Locus ID: 14783

UniProt ID: [Q60760](#)

Cytogenetics: 11 7.15 cM

Gene Summary: Adapter protein which modulates coupling of a number of cell surface receptor kinases with specific signaling pathways. Binds to, and suppress signals from, activated receptors tyrosine kinases, including the insulin (INSR) and insulin-like growth factor (IGF1R) receptors. The inhibitory effect can be achieved by 2 mechanisms: interference with the signaling pathway and increased receptor degradation. Delays and reduces AKT1 phosphorylation in response to insulin stimulation. Blocks association between INSR and IRS1 and IRS2 and prevents insulin-stimulated IRS1 and IRS2 tyrosine phosphorylation. Recruits NEDD4 to IGF1R, leading to IGF1R ubiquitination, increased internalization and degradation by both the proteasomal and lysosomal pathways. A similar role in the mediation of ubiquitination has also been suggested with INSR. Negatively regulates Wnt signaling by interacting with LRP6 intracellular portion and interfering with the binding of AXIN1 to LRP6. Positive regulator of the KDR/VEGFR-2 signaling pathway. May inhibit NEDD4-mediated degradation of KDR/VEGFR-2. [UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) contains an alternate 5' non-coding exon, and is missing in-frame coding exons compared to variant 3. This results in a shorter isoform (2) lacking an internal protein segment compared to isoform 3.