

Product datasheet for **MC218300**

Grb14 (NM_016719) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grb14 (NM_016719) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Grb14
Synonyms:	A1505286
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC218300 representing NM_016719
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCACGTCCCTGCAAGACGGGCAGAGCGCCGCGGGCCGGCAGGCGCCAGGATTCCGCCGTGGCAG
 TGCAGGTGTGCCGCGTTGCCAGGGCAAGGGAGACGCCAGGACCGGCGCAGGTCCCCGGACTGCACGC
 GCTGTCCCCCGCCTCCGATGCGACCCTCCGCGGTGCCATAGACAGGAGAAAAATGAAAGATCTGGATGTT
 CTGAAAAAGCCACCCATTCCAACCCCTTCTGAGCTCTGCTGCTCTCCGCTTACATCTGTGCTGCAG
 CAGGCCTGTTTCCAGGGCCAATTAAGGAAGAAGCAGGTGATTAAGTTTACAGCGAGGATGAAACCCAG
 CAGAGCATTAGAGGTGCCAGTGACATCACAGCCCGAGATGTTTGCCAGCTGTTGATCCTGAAGAACCAC
 TATGTGGACGACAACAGCTGGACCCTTTTGGACACCTATCTCACATAGGTTTGAAGAAGCCGTAGAGG
 ACCACGAGCTGCCAACTGAAGTGTCTCACTGGGAGTGGAAGAAGACAATAAGCTGTATCTTAGAAA
 GAATTATGCCAAATATGAATTTTTAAGAACCCAAATGTATTTCTTCCAGAGCACATGGTGTCTTTTGA
 GCTGAAATGAATGGTGACAGATCCCTACACAGATACTGCAGGTGTTTTAAGCTCCAGCAGCATCCTG
 AAATCCATGGCTTCTTACATGCAAAGGAACAGGAAAAGAAGTCTTGAAAAAAGCTTACTTTTTTCTCAG
 AAGATCTGGCTTATTTTTCTACTAAAGGCACATCCAAGGAACCCAGGCATTTGCAGCTTTTCAAGTAA
 TTCAGCACTAGTCACGTTTATATGTCACTGGCAGGAAAAAACAACGGAGCGCCAACCTCCATGGAT
 TCTGCTTAAAGCCTAACAAAGCAGGAGGGCCCCGGGACCTGAAAATGCTCTGTGCAGAAGAAGAGCAGAG
 CAGGACGTGCTGGGTGACCGCCATCCGACTGCTGAAGGATGGCATGCAGCTGTATCAGAATTATATGCAT
 CCATACCAAGGTAGAAGCGCCTGCAATTCAGAGCATGTACCCATGAGAAGCGTATCAGAGAATTCCC
 TAGTAGCAATGGACTTCTCAGGTGAGAAGAGCAGAGTCATAGACAACCCCACTGAAGCGCTTTCGGTTGC
 TGTTGAGGAAGGCCTCGCGTGGAGGAAAAAAGGCTGTTTACGCCTGGGGAATCACGGAAGCCCCAGTGCC
 CCTCCCAGAGCTCTGCTGTGAACATGGCTCTCCATCGGTCCCAACCATGGTTTACCACAGAATTTCCA
 GAGATGAGGCTCAGCGGCTGATCATTCCGCAGGGGCTGTGGATGGAGTTTTCTGGTACGGGATAGTCA
 GAGTAACCCAGAACTTTTGTACTGTCAATGAGTCATGGACAAAAGATAAAACACTATCAAATTATACCC
 GTAGAAGATGATGGTGGCTGTTCCATACTCTGGATGATGGCCATACGAAGTTCACAGACCTCATCCAGC
 TGGTGGAGTTCTACCAGCTCAACAGGGGGTCTTCTTGCAGCTGAAGCATTACTGTGCTAGGATGGC
 TGTT**AG**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_016719

Insert Size: 1617 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_016719.1](#), [NP_057928.1](#)

RefSeq Size: 1978 bp

RefSeq ORF: 1617 bp

Locus ID: 50915

UniProt ID: [Q9JLM9](#)

Cytogenetics: 2 C1.3

Gene Summary: Adapter protein which modulates coupling of cell surface receptor kinases with specific signaling pathways. Binds to, and suppresses signals from, the activated insulin receptor (INSR). Potent inhibitor of insulin-stimulated MAPK3 phosphorylation. Plays a critical role regulating PDPK1 membrane translocation in response to insulin stimulation and serves as an adapter protein to recruit PDPK1 to activated insulin receptor, thus promoting PKB/AKT1 phosphorylation and transduction of the insulin signal (By similarity).[UniProtKB/Swiss-Prot Function]