

Product datasheet for **RC206853**

GRB10 (NM_001001555) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GRB10 (NM_001001555) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GRB10
Synonyms:	Grb-10; GRB-IR; IRBP; MEG1; RSS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC206853 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAATGCATCCCTGGAGAGCCTGTACTCGGCCTGCAGCATGCAGTCAGACACGGTGCCCTCCTGCAGA
 ATGGCCAGCATGCCCGCAGCCAGCCTCGGGCTTACAGCCCTCCTCGGTCCATCCAGCCACAGGTGTCCCC
 AAGGCAGAGGGTGCAGCGCTCCAGCCTGTGCACATCCTCGTGTGAGGCGCTTCAGGAGGAAGACCAG
 CAGTTTAAACCTCATCTCTGCCGGCCATCCCCAATCCTTTTCTGAACTCTGTGGCCCTGGGAGCCCC
 CTGTGCTCACGCCGGTTCTTTACCTCCGAGCCAGGCCGCGCAAAGCAGGATGTTAAAGCTTTTAGTGA
 AGATGGGACAAGCAAAGTGGTGGAGATTCTAGCAGACATGACAGCCAGAGACCTGTGCCAATTGCTGGT
 TACAAAAGTCACTGTGTGGATGACAACAGCTGGACACTAGTGGAGCACCACCCGACCTAGGATTAGAGA
 GGTGCTTGAAGACCATGAGCTGGTGGTCCAGGTGGAGAGTACCATGGCCAGTGAAGTAAATTTCTATT
 CAGGAAGAATTACGAAAATACGAGTTCTTTAAAAATCCCATGAATTTCTCCAGAACAGATGGTTACT
 TGGTGCCAGCAGTCAAATGGCAGTCAAACCCAGCTTTTGCAGAATTTTCTGAACTCCAGTGTGCTCTG
 AAATCAAGGGTTTTTGCATGTGAAAGAGCTGGGAAAGAATCATGGAAAAGCTGTATGTGTGTTGCG
 GAGATCTGGCCTTTATTGCTCCACCAAGGGAATTCAAAGGAACCCAGACACCTGCAGCTGCTGGCCGAC
 CTGGAGGACAGCAACATCTTCTCCCTGATCGCTGGCAGGAAGCAGTACAACGCCCTACAGACCAGGGC
 TCTGCATAAAGCCAAACAAAGTCAAGTAAAGACTAAAGAGCTGAGGTTGCTCTGTGCAGAGGACGAGCA
 AACCAGGACGTGCTGGATGACAGCGTTCAGACTCCTCAAGTATGGAATGCTCCTTTACCAGAATTACCGA
 ATCCCTCAGCAGAGGAAGCCCTGTGTCCCGTTCTCGACGCCAGTGGCAGTGTCTCCGAGAATCCC
 TCGTGGCAATGGATTTTCTGGCAAAACAGGACGCGTGATAGAGAATCCGGCGGAGGCCAGAGCGCAGC
 CCTGGAGGAGGGCCACGCTGGAGGAAGCGAAGCACACGGATGAACATCCTAGGTAGCCAAAGTCCCTC
 CACCCTTCTACCCTAAGTACAGTATTACAGGACACAGCACTGGTTTACGGGAGGATCTCCAGGAGG
 AATCCACAGGATCATTAAACAGCAAGGCTCGTGGATGGGCTTTTTCTCCTCCGTGACAGCCAGAGTAA
 TCCAAAGGCATTTGACTCACACTGTGTATCACCAGAAAATAAAAATTTCCAGATCTTACCTTGCAG
 GACGACGGGCAGACGTTCTTACGCTAGATGACGGGAACACCAAATTTCTGACCTGATCCAGCTGGTTG
 ACTTTTACCAGCTGAACAAAGGAGTCTGCCTTGCAAATCAAGCACCACTGCATCCGAGTGGCCTTA

AG**CGGACCG**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
 TGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC206853 protein sequence
 Red=Cloning site Green=Tags(s)

MNASLESLSYACSMQSDTVPLLQNGQHARSQPRASGPPRSIQPVSPRQRVQRSQPVHILAVRRLQEEDQ
 QFRTSSLPAIPNPFPELCPGSPVLPVTPGSLPPSQAAAKQDVKVFSEDTGSKVVEILADMTARDLCQLLV
 YKSHCVDNSWTLVEHHPHLGLERCLEDELVVQVESTMASESKFLFRKNYAKYEFFKNPMNFFPEQMVT
 WCQSQNSQSQTQLLQNFLNSSSPEIQGFLHVKELGKKSWKLYVCLRRSGLYCSTKGTSGEPHRLQLLAD
 LEDSNIFSLIAGRKYNAPTDHGLCIKPNKVRNETKELRLLCAEDEQTRTCWMTAFRLLKYGMMLYQNYR
 IPQQRKALLSPFSTPVRVSVENSLVAMDFSGQTRVIENPAEQSAALEEGHAWRKRSTRMNILGSQSPL
 HPSTLSTVIHRTQHWFHGRISREESHRIKQQLVDGLFLLRDSQSNPKAFVLTLCCHQKIKNFQILPCE
 DDGQTFSLDDGNTKFSDLIQLVDFYQLNKGVLPCCLKKHHICIRVAL

SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6618_g06.zip

Restriction Sites:

Sgfl-RsrII

Cloning Scheme:


ACCN: NM_001001555

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_001001555.3](#)

RefSeq Size: 5040 bp

RefSeq ORF: 1611 bp

Locus ID: 2887

UniProt ID: [Q13322](#)

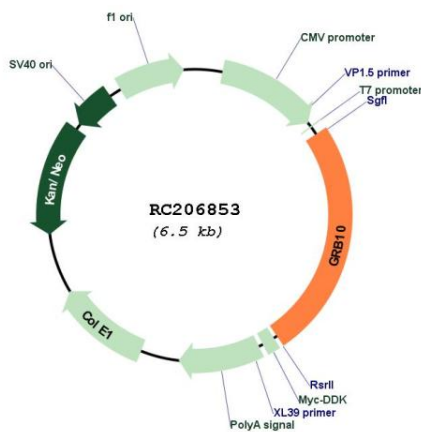
Cytogenetics: 7p12.1

Protein Families: Druggable Genome

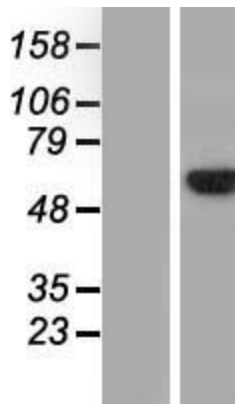
MW: 60.8 kDa

Gene Summary: The product of this gene belongs to a small family of adapter proteins that are known to interact with a number of receptor tyrosine kinases and signaling molecules. This gene encodes a growth factor receptor-binding protein that interacts with insulin receptors and insulin-like growth-factor receptors. Overexpression of some isoforms of the encoded protein inhibits tyrosine kinase activity and results in growth suppression. This gene is imprinted in a highly isoform- and tissue-specific manner, with expression observed from the paternal allele in the brain, and from the maternal allele in the placental trophoblasts. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Oct 2010]

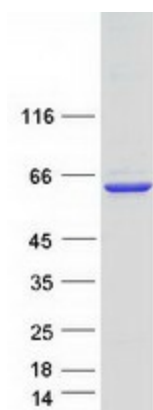
Product images:



Circular map for RC206853



Western blot validation of overexpression lysate (Cat# [LY424375]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC220822] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GRB10 protein (Cat# [TP306853]). The protein was produced from HEK293T cells transfected with GRB10 cDNA clone (Cat# RC206853) using MegaTran 2.0 (Cat# [TT210002]).