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Product datasheet for SC300212

GRB10 (NM_001001550) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GRB10 (NM_001001550) Human Untagged Clone
Tag:	Tag Free
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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Fully Sequenced ORF:

>SC300212 representing NM_001001550.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAATGCATCCCTGGAGAGCCTGTACTCGGCCTGCAGCATGCAGTCAGACACGGTGCCCCTCCTGCAG
AATGGCCAGCATGCCCGCAGCCAGCCTCGGGCTTCAGGCCCTCCTCGGTCCATCCAGCCACAGGTGTCC
CCGAGGCAGAGGGTGCAGCGCTCCCAGCCTGTGCACATCCTCGCTGTCAGGCGCCTTCAGGAGGAAGAC
CAGCAGTTTAGAACCTCATCTCTGCCGGCCATCCCCAATCCTTTTCCTGAACTCTGTGGCCCTGGGAGC
CCCCCTGTGCTCACGCCGGGTTCTTTACCTCCGAGCCAGGCCGCCGCAAAGCAGGATGTTAAAGTCTTT
AGTGAAGATGGGACAAGCAAAGTGGTGGAGATTCTAGCAGACATGACAGCCAGAGACCTGTGCCAATTG
CTGGTTTACAAAAGTCACTGTGTGGATGACAACAGCTGGACACTAGTGGAGCACCACCCGCACCTAGGA
TTAGAGAGGTGCTTGGAAGACCATGAGCTGGTGGTCCAGGTGGAGAGTACCATGGCCAGTGAGAGTAAA
TTTCTATTCAGGAAGAATTACGCAAAATACGAGTTCTTTAAAAATCCCATGAATTTCTTCCCAGAACAG
ATGGTTACTTGGTGCCAGCAGTCAAATGGCAGTCAAACCCAGCTTTTGCAGAATTTTCTGAACTCCAGT
AGTTGTCCTGAAATTCAAGGGTTTTTGCATGTGAAAGAGCTGGGAAAGAAATCATGGAAAAAGCTGTAT
GTGTGTTTGCGGAGATCTGGCCTTTATTGCTCCACCAAGGGAACTTCAAAGGAACCCAGACACCTGCAG
CTGCTGGCCGACCTGGAGGACAGCAACATCTTCTCCCTGATCGCTGGCAGGAAGCAGTACAACGCCCCT
ACAGACCACGGGCTCTGCATAAAGCCAAACAAAGTCAGGAATGAAACTAAAGAGCTGAGGTTGCTCTGT
GCAGAGGACGAGCAAACCAGGACGTGCTGGATGACAGCGTTCAGACTCCTCAAGTATGGAATGCTCCTT
TACCAGAATTACCGAATCCCTCAGCAGAGGAAGGCCTTGCTGTCCCCGTTCTCGACGCCAGTGCGCAGT
GTCTCCGAGAACTCCCTCGTGGCAATGGATTTTTCTGGGCAAACAGGACGCGTGATAGAGAATCCGGCG
GAGGCCCAGAGCGCAGCCCTGGAGGAGGGCCACGCCTGGAGGAAGCGAAGCACACGGATGAACATCCTA
GGTAGCCAAAGTCCCCTCCACCCTTCTACCCTAAGTACAGTGATTCACAGGACACAGCACTGGTTTCAC
GGGAGGATCTCCAGGGAGGAATCCCACAGGATCATTAAACAGCAAGGGCTCGTGGATGGGCTTTTTCTC
CTCCGTGACAGCCAGAGTAATCCAAAGGCATTTGTACTCACACTGTGTCATCACCAGAAAATTAAAAAT
TTCCAGATCTTACCTTGCGAGGACGACGGGCAGACGTTCTTCAGCCTAGATGACGGGAACACCAAATTC
TCTGACCTGATCCAGCTGGTTGACTTTTACCAGCTGAACAAAGGAGTCCTGCCTTGCAAACTCAAGCAC
CACTGCATCCGAGTGGCCTTATGA
AGCGGACCGACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGAT
ATCCTGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII

ACCN: NM_001001550

Insert Size: 1611 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001001550.2
RefSeq Size:	4793 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] Transcript Variant: This variant (3), also known as hGrb10beta, differs in the 5' UTR and the 5' coding region, compared to variant 1. The resulting isoform (c) has a shorter N-terminus when compared to isoform a. Isoform c is encoded by transcript variants 3 and 4.