

Product datasheet for **SC116816**

GRB7 (NM_005310) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GRB7 (NM_005310) Human Untagged Clone
Tag:	Tag Free
Symbol:	GRB7
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC116816 sequence for NM_005310 edited (data generated by NextGen Sequencing)

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ATGGAGCTGGATCTGTCTCCACCTCATCTTAGCAGCTCTCCGGAAGACCTTTGCCAGCC
CCTGGGACCCCTCCTGGGACTCCCCGGCCCCCTGATACCCTCTGCCTGAGGAGGTAAG
AGGTCCCAGCCTCTCCTCATCCCAACCACCGGCAGGAACTTCGAGAGGAGGAGAGGCGT
GCCACCTCCCTCCCCTATCCCAACCCCTTCCCTGAGCTCTGCAGTCTCCCTCACAG
AGCCCAATTCTCGGGGGCCCTCCAGTCAAGGGGGCTGCTCCCCCGCATGCCAGCCGC
CCCCATGTAGTAAAGGTGTACAGTGAGGATGGGGCCTGCAGGTCTGTGGAGGTGGCAGCA
GGTGCCACAGCTCGCCACGTGTGTGAAATGCTGGTGCAGCGAGCTCACGCCTTGAGCGAC
GAGACCTGGGGGCTGGTGGAGTGCCACCCACCTAGCACTGGAGCGGGGTTTGGAGGAC
CACGAGTCCGTGGTGAAGTGCAGGCTGCCTGGCCGTGGGCGGAGATAGCCGCTTCGTC
TTCCGGAAAAACTTCGCCAAGTACGAAGTGTCAAGAGCTCCCCACACTCCCTGTTCCCA
GAAAAAATGGTCTCCAGCTGTCTCGATGCACACACTGGTATATCCCATGAAGACCTCATC
CAGAACTTCTGAATGCTGGCAGCTTTCCTGAGATCCAGGGCTTCTGCAGCTGCGGGGT
TCAGGACGGAAGCTTTGAAACGCTTTTCTGCTTCTTGCGCCGATCTGGCCTCTATTAC
TCCACCAAGGGCACCTTAAGGATCCGAGGCACCTGCAGTACGTGGCAGATGTGAACGAG
TCCAACGTGTACGTGGTACGCAGGCGCCGCAAGCTCTACGGGATGCCACTGACTTCGGT
TTCTGTGTCAAGCCCAACAAGCTTCGAAATGGCCACAAGGGGCTTCGGATCTTCTGCAGT
GAAGATGAGCAGAGCCGCACCTGCTGGCTGGCTGCCTTCCGCCTTCAAGTACGGGGTG
CAGCTGTACAAGAATTACCAGCAGGCACAGTCTCGCCATCTGCATCCATCTTGTGGGGC
TCCCCACCCTTGAGAAGTGCCTCAGATAATACCCTGGTGGCCATGGACTTCTTGCCAT
GCTGGGCGTGTCAATTGAAACCCCGGGAGGCTCTGAGTGTGGCCCTGGAGGAGGCCAG
GCCTGGAGGAAGAAGACAACCACCGCCTCAGCCTGCCATGCCAGCCTCCGGCACGAGC
CTCAGTGCAGCCATCCACCGCACCCAACCTCTGGTTCACAGGGCGCATTTCCCGTGAGGAG
AGCCAGCGGCTTATTGGACAGCAGGCTTGGTAGACGGCCTGTTCTGGTCCGGGAGAGT
CAGCGGAACCCCAAGGCTTTGTCTCTTTGTGCCACCTGCAGAAAGTGAAGCATTAT
CTCATCTGCCGAGCGAGGAGGAGGGCCGCTGTACTTCAGCATGGATGATGGCCAGACC
CGCTTCACTGACCTGCTGCAGCTCGTGGAGTTCACCAGCTGAACCGGGCATCTGCCG
TGCTTGTGCGCCATTGCTGCACGCGGTGGCCCTCTGA
    
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Clone variation with respect to NM_005310.3

5' Read Nucleotide Sequence:

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>OriGene 5' read for NM_005310 unedited
AGGTTGCGGATTAGTATACGATCCTATAGGGCGGCCGCGATTCCGGCACGAGGGTCCCAGC
CGGGTGTCTGACGCTCGGGTTCAGGACAAGGGCACACAACCTGGTTCCGTTAAGCCCT
CTCTCGCTCAGACGCCATGGAGCTGGATCTGTCTCCACCTCATCTTAGCAGCTCTCCGA
AGACCTTTGCCAGCCCCCTGGGACCCCTCCTGGGACTCCCCGGCCCCCTGATACCCTCT
GCCTGAGGAGGTAAGAGGTCCCAGCCTCTCCTCATCCCAACCACCGGCAGGAACTTCG
AGAGGAGGAGAGGCGTGCCACCTCCCTCCCTCTATCCCAACCCCTTCCCTGAGCTCTG
CAGTCCCTCCCTCACAGAGCCCAATTCTCGGGGGCCCTCCAGTGAAGGGGGCTGCTCCC
CCGCGATGCCAGCCGCCCCCATGTAGTAAAGGTGTACAGTGAGGATGGGGCCTGCAGGTC
TGTGGAGGTGGCAGCAGGTGCCACAGCTCGCCACGTGTGTGAAATGCTGGTGCAGCGAGC
TCACGCCCTTGAGCGACGAGACCTGGGGGCTGGTGGAGTGCCACCCACCTAGCACTGGA
GCGGNGTTTGGAGGACCAGAGTCCGTGGTGGAAAGTGCAGGCTGCCTGGCCCGTGGGCGG
AGATAGCCGCTTCGTCTTCCGAAAAAATTCGCCAAGTACGAAGTGTCAAGAGCTCCCC
CACTCCCTGTTCCAGAAAAAAGTTCTCCAGCTGTCTCGATGCACACACTGGTATATCCC
ATGAAAAACCTCATCCAGAAGTTCCTGAATGCTGGCAGCTTTCCTGAGATCCAGGGCTTTT
CTGCAGCTGCCGGTTCAAGACGGGAGCCTCTGGAACCGCTNTTTTGTCTTTCGCGCC
AACTGGCCNTATGACTCCN
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_005310 unedited GGCACGCATTCTAAAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTACAAAAAAATCTTTA TTGTCACTAGTATAAAACAGAGCAGATCAACTGGCCTCTCGGTCTGTACAAAGTGTGGG CGTGAAACCGCCTGGGCTGCCCCACTTCTCCATAATTCCTGCCCTAGAGCAGCACCT CCAGAGCTAGGAGAAGGAGAGGGGGCCACCCAAGGCCTTCCCTTGAGGAGAGGGGTCAGG AGTGGACTGGAGTGGGGGCTGTTTTCTATCTGAGGGAGGCAAAGAAGCACAGGAGAAAA TGGAGTGGCGGAACCCCTACCGATCCTCATACCGTACCCTGTGGCCGCGCCCAAGTCCA CTGGATGGGTGGAGGGGGCGCCGCCACCCTGAAGCGGACTGAGGCATGAGCCAATCCAC GGATCTGGTCAGAGGGCCACCCGCTGCAACCAATGGCGCACCAAGCACGCGCGGATGCCG CGGTTACCTGGTGAACCTCCACCAGCTGCACCAGGCCATCGAAACGGCCCTGGCCATCA TACATGCTGAAGCACAGGCGAGCCCCCTATCTCTCGGCAGGATGAGATAATGCCCCAC TCCCTGCAGGCGGCTACACAGAGGACAACACACTGAGGGACATCGTGCCCTTCCCGG TCCTAGAACAGTATGCCTCTCAACCCCGATGCCACAACAACCCCTTGCCTCCCTCACAC GGTAAATGCCACCTGACACAAAAACTGCCGCCGCGGCAGGCCGCCATGAGGCTACCG CCCGAAGCTGCCATGGACAGTTGAGACGGGGACAACCAATTATCATCAAACCGGCACT CCAACAGGCCACACTCCTACCACCCGGGGTTCCAATGACCCCTCCCCTGGCTCCCATAT CCCTGCCCCAGGACTCTTCCGGGGCACCCCTCAGGGGGGACGCCACAAAAGGCTCCCC GGGAACCCGCCCCCGT
Restriction Sites:	NotI-NotI
ACCN:	NM_005310
Insert Size:	2130 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:	<ol style="list-style-type: none"> 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:	<u>NM_005310.2</u> , <u>NP_005301.2</u>
RefSeq Size:	2260 bp
RefSeq ORF:	1599 bp
Locus ID:	2886
UniProt ID:	<u>Q14451</u>
Cytogenetics:	17q12
Domains:	RA, SH2, PH

Protein Families: Druggable Genome, Embryonic stem cells, Stem cell - Pluripotency

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 epidermal growth factor receptor (EGFR) and ephrin receptors. The protein plays a role in the integrin signaling pathway and cell migration by binding with focal adhesion kinase (FAK). Several transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Jun 2011]

Transcript Variant: This variant (1) differs in the 5' UTR and coding sequence compared to variant 4. The resulting isoform (a) is shorter at the N-terminus compared to isoform b. Variants 1, 2, and 3 all encode the same isoform (a).