

## Product datasheet for **SC117337**

### GRB 14 (GRB14) (NM\_004490) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GRB 14 (GRB14) (NM_004490) Human Untagged Clone
Tag:	Tag Free
Symbol:	GRB14
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_004490, the custom clone sequence may differ by one or more nucleotides

```
ATGACCACTTCCCTGCAAGATGGGCAGAGCGCCGCGAGCAGGGCGGCTGCCCGGGATTGCGCGCTGGCCG
CCCAGGTGTGTGGCGCTGCCAGGGGAGGGGCGACGCCACGACCTGGCGCCGGCCCCCTGGCTGCACGC
GCGAGCGCTCTGCCCTTCCGGACGGGACCCGCGGCTGTGTGCAGACAGGAGAAAAAGAAAGATCTT
GATGTTCCGAAATGCCATCTATTCCAAACCCTTTTCTGAGCTATGCTGTTCTCCATTTACATCTGTGT
TGTCAGCAGACCTATTTCCAAAGCAAATTC AAGGAAAAACAGGTGATTAAGTATACAGTGAAGATGA
AACCAGCAGGGCTTTAGATGTACCCAGTGACATAACGGCTCGAGATGTTTGTGAGCTGTTGATCCTGAAG
AATCATTACATTGATGACCACAGCTGGACCCTTTTGGAGCACCTGCCTCAGATAGGTGTAGAAAAGAACA
TAGAAGACCACGAACTGGTGATTGAAGTCTATCCAACCTGGGGATAGAAGAAGAAAAAACTATACTT
TAGAAAAAATTATGCCAAATATGAGTCTTTAAAAACCAATGTATTTTTTCCAGAGCATATGGTATCT
TTTGCAACTGAAACCAATGGTGAATATCCCCACACAGATTTTGCAGATGTTTCTGAGTTCAAGCACAT
ATCCTGAAATTCATGGTTTCTTACATGCGAAAGAACAGGGAAAGAAGTCTTGAAAAAATTTACTTTTT
TCTAAGAAGATCTGGTTTATATTTTTCTACTAAGGAACATCAAAGGAACCGCGCATTTGACGTTTTTC
AGCGAATTTGGCAATAGTGATATTTATGTGTCCTGCGCAGGCAAAAAAACAATGGAGCACCGACTAACT
ATGGATTCGCTTAAGCCTAACAAAGCGGAGGGCCCCGAGACCTGAAAATGCTCTGTGAGAAGAAGA
GCAGAGTAGGACGTGCTGGGTGACCGCGATTAGATTGCTTAAGTATGGCATGCAGCTGTACCAGAATTAT
ATGCATCCATATCAAGGTAGAAGTGGCTGCAGTTCACAGAGCATATCACCTATGAGAAGTATATCAGAGA
ATTCCTGGTAGCAATGGACTTCTCAGGCCAGAAAAGCAGAGTTATAGAAAAATCCCACTGAAGCCCTTTC
AGTTGCGGTTGAAGAAGGACTCGCTTGGAGGAAAAAAGGATGTTTACGCCTGGGCACTCACGGTAGCCCC
ACTGCCTCTTACAGAGCTCTGCCACAAACATGGCTATCCACCGGTCCCAGCCATGGTTTACCACAAAA
TTTCTAGAGATGAGGCTCAGCGATTGATTATTCAGCAAGGACTTGTGGATGGAGTTTTCTGGTACGGGA
TAGTCAGAGTAACCCCAAACTTTGCTACTGTCAATGAGTCATGGACAAAAAATAAGCACTTTCAAATT
ATACCAAGTAGAAGATGACGGTGAATGTTCCACACACTGGATGATGGCCACACAAGATTTACAGATCTAA
TACAGCTGGTGGAGTTCTATCAACTCAATAAGGGCGTCTTCTTCAAGTTGAAACATTATTGTGCTAG
GATTGCTCTCTAG
```



[View online »](#)

<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_004490 unedited NTTTCAAATTTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGGGTGTCTGG CCTCTGGCCCGGTGGGGACTGTCATGGCGGCCAGCAACAGCTTAGGTGATCTCAGATG GCAGAGCAGAAAGAAATGCAAGGGTATGAGGGTCAGGGCTGCGCGGACCCCTATCCCGCCT GCGGTCTCCCGCAAGCCAGCGGGAGCGCCGCTCGGCTGGGTCCCGCCTCCAGCGG CGCCGGGGCCGCCAGACCCTGGGCTCAGCCTCGCGCCCGGTGCCACCTGAGGAGCG GCGGTCCCGCCTCGCGTCCCGGATGGGACGGCGCGGGAGCAATGCCAGTGCCCGGAGC GCCCGGGCCACGCGCGGGCCGCGCCAGCGCTTCTCGCGCCCTTCCCGNCCCTTCGCG CCTTGCCTCGCCGNCGCGGNCCCAACCACCGCCGCTCCTCCCTCTCCCCACCTTC TNCTCCGNCCCTTCCCTTCCCNCCNCTNNNNNNTNCTCGGCCGCCGCTCCTCNCC CCTGTGCCCGNTCGCTGGCGTGTGGCCCCCCCCCTGCCGTGCGCTCGGGCTTGCCTT GCCGGCCCTTGCCTTCCGTGCGTCCNTCCCTTCTCCCCCGCGCCGTTTTCTTGT TCCCTTGTCCCTTGGGTTGCCCTTTGTCCCTTCTCGCNTTNTGGCCTTCCCGCCT CCCCGGGCGCTGCCCGGCTTCCCTTGGCCCTGTTGNTGGCCTTCCCTGGGG GGGTNCCCCCTCCCGCGGCGCCCTTGGTTGNCNCTTTCGTTTTTGGCCCTC CGTCCGGCCCCGTTTTGTCTTCTCCCGTGTTTTGTCCCTTTTGTCTGNTTTT CCTTTTTNCCCTTTTNTTGTCCGCGTGGTNTCCCTTTGTTTCGCTCCTTCTCC T
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_004490
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_004490.1</a> , <a href="#">NP_004481.1</a>
<b>RefSeq Size:</b>	2376 bp
<b>RefSeq ORF:</b>	1623 bp
<b>Locus ID:</b>	2888
<b>UniProt ID:</b>	<a href="#">Q14449</a>
<b>Cytogenetics:</b>	2q24.3
<b>Domains:</b>	RA, SH2, PH

**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. This protein likely has an inhibitory effect on receptor tyrosine kinase signaling and, in particular, on insulin receptor signaling. This gene may play a role in signaling pathways that regulate growth and metabolism. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2014]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.