

## Product datasheet for **RG200330**

### **GRB7 (NM\_001030002) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GRB7 (NM_001030002) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GRB7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG200330 representing NM\_001030002  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAGCTGGATCTGTCTCCACCTCATCTTAGCAGCTCTCCGGAAGACCTTTGCCAGCCCTGGGACCC  
 CTCTGGGACTCCCCGGCCCCCTGATACCCTCTGCCTGAGGAGGTAAAGAGGTCCAGCCTCTCTCAT  
 CCCAACCAACCGGCAGGAACTTCGAGAGGAGGAGAGGCGTGCCACCTCCCTCCCTCTATCCCCAACCC  
 TTCCCTGAGCTCTGCAGTCTCCCTCACAGAGCCCAATTCGGGGGCCCTCCAGTGCAAGGGGGCTGC  
 TCCCCCGGATGCCAGCCGCCCATGTAGTAAAGGTGTACAGTGAAGTGGGCTGCAGGTCTGTGGA  
 GGTGGCAGCAGGTGCCACAGCTCGCCACGTGTGTGAAATGCTGGTGCAGCGAGCTCACGCCTTGAGCGAC  
 GAGACCTGGGGGCTGGTGGAGTGCCACCCACCTAGCACTGGAGCGGGTTGGAGGACCAGGATCCG  
 TGGTGAAGTGCAGGCTGCCTGGCCGTGGCGGAGATAGCCGCTTCGTCTCCGAAAACTTCGCCAA  
 GTACGAACTGTTCAAGAGCTCCCAACATCCCTGTTCCAGAAAAATGGTCTCCAGCTGTCTCGATGCA  
 CACACTGGTATATCCCATGAAGACCTCATCCAGAACTTCCTGAATGCTGGCAGCTTCTCTGAGATCCAGG  
 GCTTTCTGCAGCTGCGGGGTTCCAGGACGGAAGCTTTGAAACGCTTTTCTGCTTCTTGCCCGATCTGG  
 CCTTATTAATCCACCAAGGGCACCTCTAAGGATCCGAGGCACCTGCAGTACGTGGCAGATGTGAACGAG  
 TCCAACGTGTACGTGGTACGACAGGCGCAAGCTCTACGGGATGCCACTGACTTCGGTTTCTGTGTCA  
 AGCCCAACAAGCTTCAAATGGCCACAAGGGGCTTCGGATCTTCTGCAGTGAAGATGAGCAGAGCCGCAC  
 CTGCTGGCTGGCTGCCTCCGCCTTCAAGTACGGGGTGCAGCTGTACAAGAATTACCAGCAGGCACAG  
 TCTCGCCATCTGCATCCATCTTGTGGTCCCAACCTTGAAGAAGTGCCTCAGATAATACCTGGTGG  
 CCATGGACTTCTCTGGCCATGCTGGCGTGTCAATTGAGAACCCTGGGAGGCTCTGAGTGTGGCCCTGGA  
 GGAGGCCAGGCCTGGAGGAAGAAGACAACACCGCCTCAGCCTGCCATGCCAGCCTCCGGCAGGAGC  
 CTCAGTGCAGCCATCCACCGCACCAACTCTGGTTCACGGGCGCATTTCCCGTGAAGGAGAGCCAGCGGC  
 TTATTGGACAGCAGGGCTTGGTAGACGGCTGTTCTGCTCCGGGAGAGTCAAGGAAACCCAGGGCTT  
 TGTCTCTCTTTGTGCCACCTGCAGAAAGTGAAGCATTATCTCATCTCCGAGCGAGGAGGAGGGCCGC  
 CTGTACTTCAGCATGGATGATGGCCAGACCCGCTTCACTGACCTGCTGCAGCTCGTGGAGTTCCACCAGC  
 TGAACCGGCATCCTGCCGTGCTGCTGCGCCATTGCTGCACGGGTGGCCCTC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>RG200330 representing NM\_001030002  
 Red=Cloning site Green=Tags(s)

MELDLSPPHLSSPEDLCPAPGTPPGTTPRPPDTPLEEVKRSQPLLIPPTGRKLREEERRATSLPSIPNP  
 FPELCSPPSQSPILGGPSSARGLLPRDASRPHVVKVYSEDGACRSVEVAAGATARHVCEMLVQRAHALSD  
 ETWGLVECHPHLALERLEDHESVVEVQAAPVGGDSRFVFRKNFAKYELFKSSPHSLFPEKMOVSSCLDA  
 HTGISHEDLIQNFLNAGSFPEIQGFLQLRSGRKLWKRFFCFLRRSGLYYSTKGTSKDPRHLQYVADVNE  
 SNVYVVTQGRKLYGMPDFGFCVKNKLRNGHKGLRIFCSEDEQSRTCWLAFAFRLFKYGVQLYKNYQQAQ  
 SRHLHPSCLGSPPLRSASDNTLVAMDFSGHAGRVIENPREALSVALEEAQAWRKKTNHRLSLPMPASGTS  
 LSAAIHRTQLWFHGRISREESQRLIGQQGLVDGLFLVRESQRNPQGFVLSLCHLQKVKHYLILPSEEEGR  
 LYFSMDDGQTRFTDLLQLVEFHQLNRGILPCLLRHCCTRVALL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001030002

**ORF Size:** 1596 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\\_001030002.2](#)

**RefSeq Size:** 2116 bp

**RefSeq ORF:** 1599 bp

**Locus ID:** 2886

**UniProt ID:** [Q14451](#)

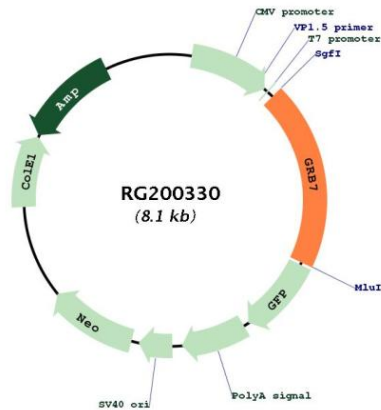
**Cytogenetics:** 17q12

**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]

**Product images:**


Circular map for RG200330