

Product datasheet for **RC234367**

GRB7 (NM_001242443) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GRB7 (NM_001242443) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GRB7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC234367 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGCTGGATCTGTCTCCACCTCATCTTAGCAGCTCTCGGAAGACCTTTGCCAGCCCTGGGACCC
 CTCTGGGACTCCCCGGCCCCCTGATACCCTCTGCCTGAGGAGGTAAAGAGGTCCAGCCTCTCTCAT
 CCCAACCAACCGCAGGAACTTCGAGAGGAGGAGGCGTGCCACCTCCCTCCCTCTATCCCCAACCCC
 TTCCCTGAGCTCTGCAGTCTCCCTCACAGAGCCCAATTCTGGGGGCCCTCCAGTGCAAGGGGCTGC
 TCCCCCGGATGCCAGCCGCCCATGTAGTAAAGGTGTACAGTGGAGTGGGCCTGCAGTCTGTGGA
 GGTGGCAGCAGGTGCCACAGCTCGCCACGTGTGTGAAATGCTGGTGCAGCGAGCTCACGCCTTGAGCGAC
 GAGACCTGGGGGCTGGTGGAGTGCCACCCACCTAGCACTGGAGCGGGTTGGAGGACCAGGATCCG
 TGGTGAAGTGCAGGCTGCCTGGCCGTGGCGGAGATAGCCGTTCTGTTCCGGAAAACTTCGCCAA
 GTACGAACTGTTCAAGAGCTCCCAACATCCCTGTTCCAGAAAAATGGTCTCCAGCTGTCTCGATGCA
 CACACTGGTATATCCCATGAAGACCTCATCCAGAACTTCTGAATGCTGGCAGCTTCTCTGAGATCCAGG
 GCTTTCTGCAGCTGCGGGTTCAGGACGGAAGCTTTGAAACGCTTTTCTGCTTCTTGCCCGATCTGG
 CCTTATTACTCCACCAAGGGCACCTCTAAGGATCCGAGGCACCTGCAGTACGTGGCAGATGTGAACGAG
 TCCAACGTGTACGTGGTACGACAGGCGCAAGCTCTACGGGATGCCACTGACTTCGGTTTCTGTGTCA
 AGCCCAACAAGCTTCAAATGGCCACAAGGGGCTTCGGATCTTCTGCAGTGAAGATGAGCAGAGCCGAC
 CTGCTGGCTGGCTGCCTCCGCCTTCAAGTACGGGTGCAGCTGTACAAGAATTACCAGCAGGCACAG
 TCTCGCCATCTGCATCCATCTTGTGGCTCCCACCTTGAGAAGTGCCTCAGATAATACCCTGGTGG
 CCATGGACTTCTCTGGCCATGCTGGCGTGTCAATTGAGAACCCTGGGAGGCTCTGAGTGTGGCCCTGGA
 GGAGGCCAGGCTGGAGGAAGAAGACAAACCACCGCTCAGCCTGCCATGCCAGCCTCCGGCAGGAGC
 CTAGTGCAGCCATCCACCGCACCAACTCTGGTTCACGGGCGCATTTCCCGTGAAGGAGCCAGCGGC
 TTATTGGACAGCAGGCTTGGTAGACGGCTGTTCTGGTCCGGGAGAGTCAAGGAAACCCAGGGCTT
 TGTCTCTCTTTGTGCCACCTGCAGAAAGTGAAGCATTATCTCATCTGCCGAGCGAGGAGGAGGCCGC
 CTGTACTTCAGCATGGATGATGGCCAGACCCGCTTCACTGACCTGCTGCAGCTCGTGGATTCCACCAGC
 TGAACCGGCATCTGCCGTGCTGTCGCCATTGCTGCACCGGGTGGCCCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234367 protein sequence
 Red=Cloning site Green=Tags(s)

MELDLSPPHLSSSPEDLCPAPGTPPGTPRPPDPLPEEVKRSQPLLIPTTGRKLREEERRATSLPSIPNP
 FPELCSPPSQSPIILGGPSSARGLLPRDASRPHVVKVYSEDGACRSVEVAAGATARHVCEMLVQRAHALSD
 ETWGLVECHPHLALERGLEDHESVVEVQAAPVGGDSRFVFRKNFAKYELFKSSPHSLFPEKMOVSSCLDA
 HTGISHEDLIQNFLNAGSFPEIQGFLQLRGSGRKLWKRFFCFLRRSGLYYSTKGTSKDPRHLQYVADVNE
 SNVYVVTQGRKLYGMPDFGFVCPKNLNRNGHGLRIFCSEDEQSRTCWLAARFLFKYGVQLYKNYQQAQ
 SRHLHPSCLGSPPLRSASDNTLVAMDFSGHAGRVNIENPREALSVALEEAQAWRKKTNHRLSLPMPASGTS
 LSAAIHRQLWFHGRISREESQRLIGQQGLVDGLFLVRESQRNPQGFVLSLCHLQKVKHYLILPSEEEGR
 LYFSMDDGQTRFDLLQLVEFHQLNRGILPCLLRHCCTRAL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6668_e10.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001242443

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_001242443.1](#), [NP_001229372.1](#)

RefSeq Size: 2275 bp

RefSeq ORF: 1599 bp

Locus ID: 2886

UniProt ID: [Q14451](#)

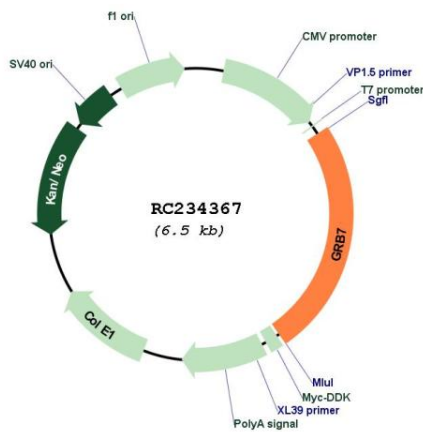
Cytogenetics: 17q12

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

MW: 59.7 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 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 RC234367