

Product datasheet for **RG234367**

GRB7 (NM_001242443) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GRB7 (NM_001242443) 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:

>RG234367 representing NM_001242443
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGCTGGATCTGTCTCCACCTCATCTTAGCAGCTCTCGGAAGACCTTTGCCAGCCCTGGGACCC
 CTCTGGGACTCCCCGGCCCCCTGATACCCTCTGCCTGAGGAGGTAAAGAGGTCCAGCCTCTCTCAT
 CCCAACACCGGCAGGAACTTCGAGAGGAGGAGGCGTGCCACCTCCCTCCCTCTATCCCCAACCCC
 TTCCCTGAGCTCTGCAGTCTCCCTCACAGAGCCCAATTCGGGGGCCCTCCAGTGCAAGGGGGCTGC
 TCCCCCGGATGCCAGCCGCCCATGTAGTAAAGGTGTACAGTGAGGATGGGGCTGCAGGTCTGTGGA
 GGTGGCAGCAGGTGCCACAGCTCGCCACGTGTGTGAAATGCTGGTGCAGCGAGCTCACGCCTTGAGCGAC
 GAGACCTGGGGGCTGGTGGAGTGCCACCCACCTAGCACTGGAGCGGGTTGGAGGACCAGGATCCG
 TGGTGAAGTGCAGGCTGCCTGGCCGTGGCGGAGATAGCCGTTTCGTCTCCGAAAAAATTCGCCAA
 GTACGAACTGTTCAAGAGCTCCACACATCCCTGTTCCAGAAAAATGGTCTCCAGCTGTCTCGATGCA
 CACACTGGTATATCCCATGAAGACCTCATCCAGAACTTCTGAATGCTGGCAGCTTCTCTGAGATCCAGG
 GCTTTCTGCAGCTGCGGGGTTCCAGGACGGAAGCTTTGAAACGCTTTTCTGCTTCTTGCCCGATCTGG
 CCTTATTACTCCACCAAGGGCACCTCTAAGGATCCGAGGCACCTGCAGTACGTGGCAGATGTGAACGAG
 TCCAACGTGTACGTGGTACGCAGGGCCGCAAGCTCTACGGGATGCCACTGACTTCGGTTTCTGTGTCA
 AGCCCAACAAGCTTCAAATGGCCACAAGGGGCTTCGGATCTTCTGCAGTGAAGATGAGCAGAGCCGCAC
 CTGCTGGCTGGCTGCCTCCGCCTTCAAGTACGGGGTGCAGCTGTACAAGAATTACCAGCAGGCACAG
 TCTCGCCATCTGCATCCATCTTGTGGGCTCCCACCTTGAAGAAGTGCCTCAGATAATACCTGGTGG
 CCATGGACTTCTCTGGCCATGCTGGCGGTGTCAATTGAGAACCCTGGGAGGCTCTGAGTGTGGCCCTGGA
 GGAGGCCAGGCCTGGAGGAAGAAGACAACCACCGCCTCAGCCTGCCATGCCAGCCTCCGGCAGGAGC
 CTAGTGCAGCCATCCACCGCACCAACTCTGGTTCACGGGCGCATTTCCCGTGAAGGAGAGCCAGCGGC
 TTATTGGACAGCAGGGCTTGGTAGACGGCTGTTCTGCTCCGGGAGAGTCAAGGAAACCCAGGGCTT
 TGTCTCTCTTTGTGCCACCTGCAGAAAGTGAAGCATTATCTCATCTGCCGAGCGAGGAGGAGGGCCGC
 CTGTACTTCAGCATGGATGATGGCCAGACCCGCTTCACTGACCTGCTGCAGCTCGTGGAGTTCCACCAGC
 TGAACCGGGCATCTGCCGTGCTGTCGCCATTGCTGCACGGGTGGCCCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG234367 representing NM_001242443
 Red=Cloning site Green=Tags(s)

MELDLSPPHLSSPEDLCPAPGTPPGTTPRPPDTPLEEVKRSQPLLIPPTGRKLREEERRATSLPSIPNP
 FPELCSPPSQSPILGGPSSARGLLPRDASRPVVKVYSEDGACRSVEVAAGATARHVCEMLVQRAHALSD
 ETWGLVECHPHLALERLEDHESVVEVQAAPVGGDSRFVFRKNFAKYELFKSSPHSLFPEKMOVSSCLDA
 HTGISHEDLIQNFLNAGSFPEIQGFLQLRGSGRKLWKRFFCFLRRSGLYYSTKGTSKDPRHLQYVADVNE
 SNVYVVTQGRKLYGMPDFGFCVKNKLRNGHKGLRIFCSEDEQSRTCWLAFAFRLFKYGVQLYKNYQQAQ
 SRHLHPSCLGSPPLRSASDNTLVAMDFSGHAGRVIENPREALSVALEEAQAWRKKTNHRLSLPMPASGTS
 LSAAIHRTQLWFHGRISREESQRLIGQQGLVDGLFLVRESQRNPQGFVLSLCHLQKVKHYLILPSEEEGR
 LYFSMDDGQTRFTDLLQLVEFHQLNRGILPCLLRHCCTRVAL

TRTRPLE - GFP Tag - V

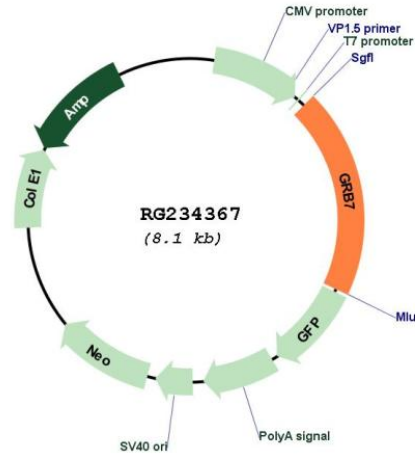
Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


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:	<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:	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
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]