

## Product datasheet for **MG208570**

### Grb7 (NM\_010346) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Grb7 (NM_010346) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Grb7
Synonyms:	mKIAA4028
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG208570 representing NM\_010346  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGAAGTGGATCTGAGCCGACTCATCTCAGCAGCTCCCAGAAGATGTGTGCCAACTCTGCTACCC  
 CTCTGAGACTCCTCCGCCCCCTGATAACCCTCCGCCAGGGGATGTGAAGCGGTCGCAGCCTTTGCCCAT  
 CCCAGCAGCAGGAACTTCGAGAAGAGGAGTTTCAGGCAACCTCTCTGCCTTCCATCCCCAACCCCTTC  
 CCTGAGCTCTGCAGCCACCTTCACAGAAACCCATTCTTGGTGGTTCTCCGGTGAAGGGGTTGCTTC  
 CTCGAGACTCCAGCCGCTCTGTGTGGTGAAGGTGTACAGTGAGGATGGGGCTGCCGGTCTGTGGAGGT  
 GGCAGCGGGGCCACAGCTCGTCACGTGTGTGAGATGCTGGTACAACGAGCTCACGCCCTGAGCGACGAG  
 AGCTGGGACTAGTGAATCCCACCCCTACCTGGCACTGGAGCGGGTCTGGAGGACCATGAATTTGTGG  
 TGAAGTGCAGGAGCCCTGGCCTGTGGTGGAGACAGCCGCTTCATCTTTCGTA AAAACTCGCCAAGTA  
 TGAATATTCAAGAGCCCCCACACCCCTGTTCCAGAAAAGATGGTCTCGAGCTGTCTGGATGCACAA  
 ACAGGCATATCCCATGAAGACCTCATCCAGAATTCCTGAACGCTGGCAGCTTCCCTGAGATCCAGGGCT  
 TCTGCAGCTGCCGGGATCAGGCCGGGGTTCAGGTCGAAAAGCTTTGAAAACGTTTCTTCTGCTTTCTGCG  
 TCGATCTGGCCTCTACTACTCTACCAAGGGTACCTCCAAGGACCCAGACACCTACAGTATGTGGCAGAT  
 GTGAATGAGTCCAATGTCTATGTGGTGACCCAGGGCCGAAGCTGTATGGGATGCCCACTGACTTCGGCT  
 TCTGTGTCAAGCCCAACAAGCTTCGAAACGGCCACAAGGGGCTCCACATCTTCTGCAGTGAGGATGAGCA  
 GAGTCGGACCTGCTGGCTGGCTGCCCTCCGGCTCTTCAAGTACGGGGTACAGCTATATAAGAATTATCAG  
 CAGGCCAGTCTCGTACCTGCGCCTATCTATTTGGGGTCTCCACCCTTGAGGAGCGTCTCAGACAATA  
 CCCTAGTGGCTATGGACTTCTCTGGCCATGCGGGGCGTGTCAATTGATAACCCCGGGAAGCTCTGATGTC  
 CGCCATGGAGGAGGCCAGGCCCTGGAGGAAGAAGACAAAACACCGTCTGAGCCTGCCACCACATGCTCT  
 GGCTCGAGCCTCAGCGCAGCCATTATCGCACCCAGCCCTGGTTTCATGGACGCATCTCTCGGGAGGAGA  
 GCCAGCGGCTAATTGGACAGCAGGGCCTGGTGGATGGTGTGTTCTGGTCCGGGAGAGCCAGAGGAACCC  
 ACAGGGCTTTGCTCTGCTTGTGCCATCTGCAGAAAGTCAAGCATTATCTCATTTTGC AAGCGAAGAT  
 GAAGGTTGCCTTACTTCAAGCATGGATGAGGGCCAGCCGTTTTCACAGACCTGCTGCAGCTGGTAGAAT  
 TCCACCAGCTGAACCGAGGCATCTGCCCTGCCTGCTGCGCCACTGCTGTGCCCGTGTGGCCCTC

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG208570 representing NM\_010346  
 Red=Cloning site Green=Tags(s)

MELDLSPHTLSSSPEDVCPPTATPPETPPPPDNPPPGDVKRSQPLPIPSSRKLREEEFQATSLPSIPNPF  
 PELCSPPSQKPIILGGSSGARGLLPRDSSRLCVVKVYSEDGACRSVEVAAGATARHVCEMLVQRAHALSDE  
 SWGLVESHPLYLALERGLDHEFVVEVQEAWPVGGDSRFIFRKNFAKYELFKSPPHTLFPEKMOVSSCLDAQ  
 TGISHEDLIQNFLNAGSFPEIQGFLQLRSGRGSGRKLWKRFFCFLRRSGLYYSTKGTSKDPRHLQYVAD  
 VNESNVYVVTQGRKLYGMPTDFGFVKNPKLRNGHKGLHIFCSEDEQSRTCWLAAFRLFKYGVQLYKQYQ  
 QAQSRHLRLSYLGSPPLRVSDNTLVAMDFSGHAGRVIDNPREALSAAMEEAQAWRKKTNHRLSLPTTCS  
 GSSL SAAIHRTPWFHGRISREESQRLIGQQGLVDGVFLVRESQRNPQGFVLSLCHLQKVKHYLILPSED  
 EGCLYFSMDEGQTRFTDLLQLVEFHQLNRGILPCLLRHCCARVAL

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI



<b>ACCN:</b>	NM_010346
<b>ORF Size:</b>	1605 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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_010346.2</a> , <a href="#">NP_034476.1</a>
<b>RefSeq Size:</b>	2413 bp
<b>RefSeq ORF:</b>	1608 bp
<b>Locus ID:</b>	14786
<b>UniProt ID:</b>	<a href="#">Q03160</a>
<b>Cytogenetics:</b>	11 61.75 cM
<b>Gene Summary:</b>	Adapter protein that interacts with the cytoplasmic domain of numerous receptor kinases and modulates down-stream signaling. Promotes activation of down-stream protein kinases, including STAT3, AKT1, MAPK1 and/or MAPK3. Promotes activation of HRAS. Plays a role in signal transduction in response to EGF. Plays a role in the regulation of cell proliferation and cell migration (By similarity). Plays a role in the assembly and stability of RNA stress granules. Binds to the 5'UTR of target mRNA molecules and represses translation of target mRNA species, when not phosphorylated. Phosphorylation impairs RNA binding and promotes stress granule disassembly during recovery after cellular stress.[UniProtKB/Swiss-Prot Function]