

## Product datasheet for **RR206650**

### Grb2 (NM\_030846) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Grb2 (NM_030846) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Grb2
Synonyms:	Ash-psi
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR206650 representing NM_030846 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGAAGCCATCGCCAAATATGACTTCAAAGCTACTGCTGACGATGAGCTGAGCTTCAAGAGGGGGGACA  
TCCTTAAGGTTTTGAATGAAGAGTGTGATCAGAAGTATAAGGCAGAAGTCAATGGGAAAGATGGCTT  
CATCCCAAGAATTACATAGAAATGAAACCACATCCGTGGTTTTTGGCAAATCCCAGAGCAAAGGCA  
GAAGAAATGCTTAGCAAACAGCGCATGACGGGCCTTCCTGATCCGAGAGAGCGAGAGCGCTCCTGGGG  
ATTTCTCCCTGTCAAGTTTGGAAATGATGTACAGCACTTCAAGGTGCTTCGTGACGGAGCCGGGAA  
GTACTTCTGTGGGTGGTGAAGTTAATTTCTTGAATGAGCTGGTAGATTACCACAGATCAACATCCGTG  
TCCAGGAACCAGCAGATATTCCTCCGGGACATAGAACAGGTGCCACAGCAGCAACGTACGTCCAGGCAC  
TCTTTGACTTTGACCCCAAGGAGGATGGTGAAGTGGGCTTTCGCCGAGGAGACTTCATTCATGTCATGGA  
TAACTCAGATCCCAATTTGGTGGAAAGGGCCTGCCATGGGCAGACCGGCATGTTTCCCGCAATTATGTC  
ACCCAGTGAACCGGAACGTC

**ACGCGT**ACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RR206650 representing NM\_030846  
 Red=Cloning site Green=Tags(s)

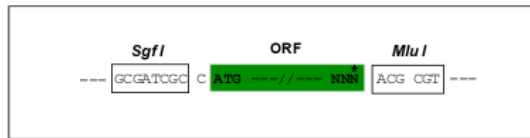
MEAIKYDFKATADDELSFKRGDILKVLNEECDQNWYKAELNGKDFIPKNYIEMKPHPWFFGKIPRAKA  
 EEMLSKQRHDGAFLIRESESAPGDFSLSVKFGNDVQHFVKVLRDGAGKYFLVWVKFNLSNELVDYHRSTSV  
 SRNQQIFLRDIEQVPQQPTYVQALFDFDPQEDGELGFRRGDFIHVMDNSDPNWWKGACHGQTMGFPRNYV  
 TPVNRNV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

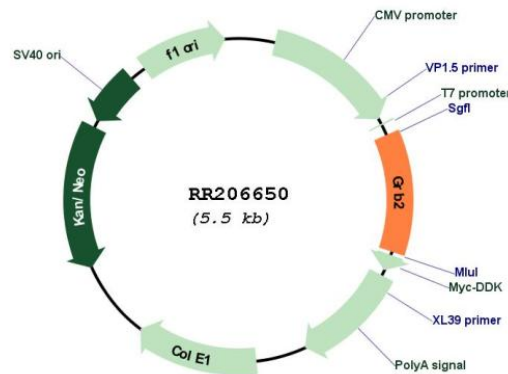
Cloning Scheme:

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM\_030846

ORF Size: 651 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_030846.2</a> , <a href="#">NP_110473.2</a>
<b>RefSeq Size:</b>	2608 bp
<b>RefSeq ORF:</b>	654 bp
<b>Locus ID:</b>	81504
<b>UniProt ID:</b>	<a href="#">P62994</a>
<b>Cytogenetics:</b>	10q32.1
<b>MW:</b>	25.2 kDa
<b>Gene Summary:</b>	acts as a link between tyrosine kinase receptors and Ras signaling [RGD, Feb 2006]