

Product datasheet for MR202420

Grb2 (NM_008163) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Grb2 (NM_008163) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Grb2
Synonyms:	AA408164; Ash
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR202420 representing NM_008163 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAAGCCATCGCCAAATATGACTTCAAAGCTACTGCTGACGATGAGCTGAGCTTCAAAGGGGGGACA
TCCTTAAGGTTTTGAATGAAGAATGTGACCAGAAGTATAAGGCAGAAGTCAATGGGAAAGATGGCTT
CATCCCCAAGAATTACATAGAAATGAAACCACATCCGTGGTTTTTTGGCAAATCCCCAGAGCCAAGGCA
GAAGAAATGCTCAGCAAACAGCGGCATGACGGGGCCTTCTGATCCGAGAGAGCGAGAGCGCTCCTGGG
ACTTCTCCCTGTCCGTCAAGTTTGGAAATGATGTGCAGCACTTCAAGGTGCTCCGCGACGGAGCCGGGAA
GTATTTCCCTGTGGTGGTGAAGTTAATCTTTGAATGAGCTGGTAGATTACCACAGATCAACATCCGTG
TCCAGGAACCAGCAGATATTCTTACGGGACATAGAACAGATGCCACAGCAGCCAACCTACGTCCAGGCGC
TCTTTGACTTTGACCCCAAGGAGGATGGCGAGCTGGGCTTTCGCAGAGGAGACTTCATTCATGTCATGGA
TAACTCAGATCCAATTGGTGGAAAGGGGCTGCCACGGGCAGACCGGCATGTTTCCCCGAATTATGTC
ACCCAGTGAACCGAACGTC

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR202420 representing NM_008163
 Red=Cloning site Green=Tags(s)

MEAI AKYDFKATADDEL SFKRGDILKVLNEECDQNWYKAELNGKDFIPKNYIEMKPHPWFFGKIPRAKA
 EEMLSKQRHDGAFLIRESE SAPGDFSLSVKFGNDVQHFKVLRDGAGKYFLVWVKFNSLNELVDYHRSTSV
 SRNQIIFLRDIEQMPQQPTYVQALFDFDPQEDGELGFRRGDFIHVMDNSDPNWWKGACHGQTGMFPRNYV
 TPVNRNV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_008163

ORF Size: 651 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_008163.4](#), [NP_032189.1](#)

RefSeq Size: 2624 bp

RefSeq ORF: 654 bp

Locus ID: 14784

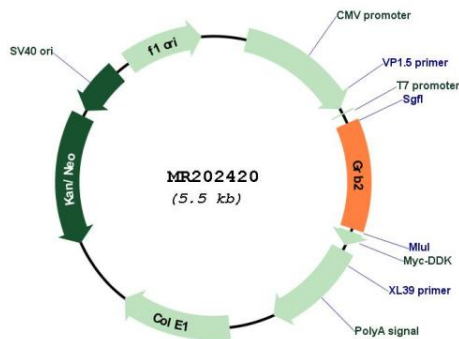
UniProt ID: [Q60631](#)

Cytogenetics: 11 80.91 cM

MW: 25.7 kDa

Gene Summary: The protein encoded by this gene binds the epidermal growth factor receptor and contains one SH2 domain and two SH3 domains. Its two SH3 domains direct complex formation with proline-rich regions of other proteins, and its SH2 domain binds tyrosine phosphorylated sequences. This gene is similar to the Sem5 gene of *C.elegans*, which is involved in the signal transduction pathway. Three alternatively spliced transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Sep 2015]

Product images:



Circular map for MR202420