

Product datasheet for **RR217122**

Gbe1 (NM_001100502) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gbe1 (NM_001100502) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gbe1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR217122 representing NM_001100502
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCGCCGGCGGCTCCTGCGGCAGAGGAGAAGGGCTCCGAAGCTCAACTGAAGGCCGCTTGCCG
 ATGTGCCGGAGCTGGCCGACTTCTGGAGATTGACCCGTACCTGAAGCCCTACGCCGAGACTTCCAGCG
 CAGGTATAAGAAGTTTAACCAAGTTTTGCATGACATTGGAGAGAATGAAGTGGTATTGATAAGTTCTCC
 AGAGGCTATGAGTCATTTGGCATCCACAGATGTTCCGATGGTGGCATATACTGTAAGAATGGGCCCCAG
 GAGCAGAAGGAGTTTTTCTACTGGAGAATTCAGTGGTTGGAATCCATTTTCTCATCCATATAAAAAAGT
 GGAATATGGGAAATGGGAGCTGTACATCCACCCAAGCAGAATAAATCTCCCCAATACCTCATGGGTCC
 AAAGTGAAGGTAGTTATTACCAGTAAGAGTGGTGAGATTCTGTACCGCATCTCCCCGTGGCAAAGTATG
 TGGTTCGCGAGAACAAACAGTGAAGTACGATTGGATACACTGGGATCCAGAAAACCCCTACAAATTCAG
 GCATTCAGACCTAAGAAACCCAGAAGCCTAAGAAATTTATGAATCTCATGTGGGAATTTCTCCCATGAA
 GAAAGATAGCTTCTTATAAACATTTTACTAGCAATGTACTACCAAGAATCAAAGACCTTGGGTACAAC
 GCATTCAGTTGATGGCGATCATGGAACACGCCTACTATGCCAGCTTTGGGTACCAAGTCACCAGCTTTTT
 TGCAGCTTCAAGCCGTTATGAACTCCTGAAGAGCTGAAAGAAGTGTGCGACACAGCACATTTGATGGGC
 ATGTGCTGCTCTTGGACGTGGTACACAGCCATGCTTCTAAAACTCAGAAGACGGGTTAAACATGTTTTG
 ATGGGACCGATTCTGTTACTTTTCACTTGGACCCAGAGGAACCCATGATCTTTGGGACAGTAGATTATT
 TATCTATTCAGCTGGGAAGTCTTAAGGTTCTTCTGTGCAACATAAGATGGTGGTTGGAGGAATACTGC
 TTTGACGGCTCCGTTTTGACGGTGTCACTCCATGCTGTATCATCACCATGGCATGGGTCAAGGTTTTT
 CAGGCGACTACAGTGAATTTTTGGACTCCAAGTAGATGAAGAGCTCTGGTTTACCTCATGTTGGCAAA
 TCATTTGACGCACACGATGTACCCAGACTCGATAACTATAGCAGAGGATGTATCAGGGATGCCGGCCCTC
 TGTTCTCAACGTCCCAGGGAGGAGGTGGTTTTGATTACAGATTAGCAATGGCCATTCGGATAAATGGA
 TCCAATTAAGGAATCAAAGATGAAGACTGGAACATGGGCAATATAGTGTATACGCTCACCAATCG
 ACGCCACCTTGAATAATGCGTGGCTTATGCAGAGAGCCATGATCAGGCACTGGTTGGTGACAAGACTG
 GCATTTTGGTTGATGGACGCCGAGATGTACACGAACATGAGCGTTCTGGCGCCTTTCACCCAGTAATTG
 ATCGAGGAATACAGCTTCAAGATGATTCGACTCATCACTCACGGGCTTGGTGGAGAAGGCTATCTCAA
 TTTTATGGGGAATGAGTTTGGGCATCCTGAATGGTTGGACTTCCAAGGAAGGGAATAATGAGAGTTAC
 CATTATGCCAGAAGGCAGTTTAACTTAACCGATGACGACCTTCTCGTTATAAGTTCTGAATAACTTTG
 ACAGAGATATGAACAGACTGGAAGAAACATGTGGTTGGCTCTCGGCTCCGCAAGCCCTACGTGAGTAAAA
 GCACGAAGGCAATAAGACAATCACCTTTGAGAGAGCAGGACTTCTTTTTATTTTCAACTTCCACCCAAGC
 AAGAGCTATACGGACTACCGAGTCGGGACAGCCATGCCAGGGAAGTTCAAAATTGTATTAGATTCAGATG
 CAGCAGAATATGGAGGACATCAGAGACTGGACCACAGCACCAGCTACTTTGCCGAGGCTTTTGAACATAA
 TGGGCGCCCTATTCCTTTTGGTGTACATTCAGGCGAGTGGCTCTCATCTTCAGAACGTGGATCTG
 CCAAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR217122 representing NM_001100502
Red=Cloning site Green=Tags(s)

MAAPAAPAAEEKGSEALKAALADVPELGRLLLEIDPYLKPYAADFQRRYKKNQVLHDIGENEGGIDKFS
 RGYESFGIHRCSDDGIYCKEAWPGAEGVLTGEFSGWNPFSHPYKKLEYGKWEL YIPPKQNKSPPIPHGS
 KLVVITSKSGEILYRISPWAKYVVRENNVNYDWHWDPENPYKFRHSRPPKPRSLRIYESHVGISSHE
 GKIASYKHFTSNVLPRIKDLGYNCIQLMAIMEHAYYASFGYQVTSFFAASSRYGTPEELKELVDTAHLMG
 IVVLLDVVHSHASKNSEGLNMFDTGDCYFHSRPRGTHDLWDSRLF IYSSWEVLRFLLSNIRWWLEEYC
 FDGFRFDGVTSMLYHHHGMGQGFSGDYSEYFGLQVDEDALVYMLANHLTHTMPDSITIAEDVSGMPAL
 CSPTSQGGGGFDYRLAMAIPDKWIQLLKEFKDEDWNMGNIVYTLNRRHLEKCVAYAESHQALVGDKTL
 AFWLMDAEMYTNSVLAPFPTVIDRGIQLHKMIRLITHLGGEGYLFNMGNEFGHPWDFPRKGNESY
 HYARRQFNLTDDLLRYKFLNDFDRMNRLEETCGWLSAPQAYVSEKHEGNKTIIFERAGLLFIFNFHPS
 KSYTDYRVGTAMPGKFKIVLSDAAEYGGHQRLDHSTDYFAEAFEHNGRPYSLLVYIPSRVALILQNVDL
 PN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001100502

ORF Size: 2106 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_001100502.1](#), [NP_001093972.1](#)

RefSeq Size: 2937 bp

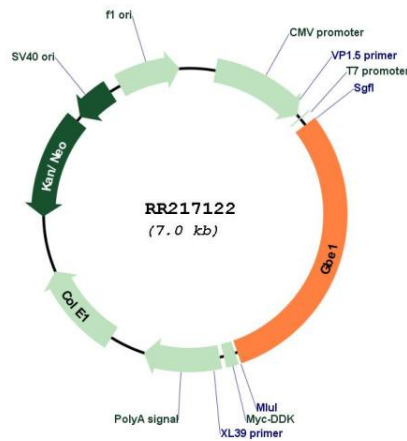
RefSeq ORF: 2109 bp

Locus ID: 288333

Cytogenetics: 11p11

MW: 80.4 kDa

Product images:



Circular map for RR217122