

Product datasheet for **MR210139**

Gbe1 (NM_028803) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gbe1 (NM_028803) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gbe1
Synonyms:	2310045H19Rik; 2810426P10Rik; D16Ertd536e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR210139 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGCGCCGGCGGCTCCTGCGGCAGGGGAAACGGGCCCGATGCTCGTCTGGAGGCCGCTTGCCG
 ACGTGCCGGAGCTGGCCGACTCCTGGAGATTGACCCGTACCTGAAGCCCTTCGCCGGGACTTCCAGCG
 CAGGTATAAGAAGTTTAGCCAGTTTTGTCATGACATTGGAGAGAATGAAGTGGGATCGATAAGTTCTCC
 AGAGGCTATGAGTCATTTGGCATCCACAGATGTTCTGATGGTGGCATCTACTGCAAAGAATGGGCCCCAG
 GAGCAGAAGGAGTTTTTCTACTGGAGAATTCAGTGGTTGGAATCCATTTTCTCACCCATATAAAAAAGCT
 GGAATACGGAAAATGGGAGCTGTATATCCACCCAAGCAGAACAATCCCCCTGATACCTCATGGGTCC
 AAGCTGAAGGTAGTTATTACTAGTAAGAGTGGCGAGATACTGTATCGCATTTCCCATGGGCAAAGTATG
 TGGTTCGTGAGAACAAACAGTGAACATGATTGGATACACTGGGCTCCAGAAGACCCCTATAAATTCAA
 GCATTCAGACCTAAGAAACCAAGAAGCCTAAGAAATTTATGAATCTCATGTGGGAATTTCTCCACGAA
 GGAAAAATAGCTTCTTACAACATTTTACCAGCAATGACTACCAAGAATCAAAGACCTTGGGTATAACT
 GCATTCAGTTGATGGCGATCATGGAACATGCTTACTATGCCAGTTTTGGGTACCAAAATCACGAGCTTTT
 TGCAGCTTCAAGTCGTTATGGAACCTCTGAAGAGCTGAAAGAACTTGTGACACAGCACATTCGATGGGC
 ATTGTAGTCCCTCAGATGTGGTTCATAGCCATGCTTCAAAAAATTCAGAAGATGGGTAAACATGTTTTG
 ATGGGACCGATTCTGTTATTTTCACTCTGGACCCCGAGGGACCCATGATCTTTGGGACAGTAGATTATT
 TATCTATTCAGCTGGGAAGTTTTAAGATTCCTTCTGTGCAACATAAGATGGTGGTTGGAGGAGTACTGC
 TTTGATGGCTCCGTTTTGATGGTGTCACTCTATGCTCTATCATCACCACGGAATGGGTCAAGTTTTTT
 CGGGTACTATAATGAATATTTTGGACTACAAGTAGATGAAGATGCTTTGATTTATCTCATGTTGGCAAA
 TCATTTGGCTCACACGTTGTACCCAGACTCGATAACAATAGCAGAGGATGTATCAGGGATGCCGGCTCTC
 TGTTCTCCAACCTCCAGGGAGGCGGTGGTTTTGACTACAGATTAGCAATGGCTATTCCAGATAAATGGA
 TCCAATTAAGGAATTTAAAGATGAAGACTGGAATATGGGCAATATAGTGTATACTCTACCAATCG
 ACGCTACCTTGAAAAATGTGGCTTATGCAGAGAGTCATGATCAGGCATTGGTTGGTGACAAGACTG
 GCGTTTTGGTTGATGGACGCTGAGATGTACACGAACATGAGCGTTCTGGCCCTTCACTCCAGTAATTG
 ATCGAGGAATACAGCTTCATAAGATGATTCGTCTCACTCACGGGCTCGGTGGAGAAGGCTATCTCAA
 TTTTCATGGGTAATGAGTTTGGGCATCCTGAATGGTTGGACTTCCAAGGAAAGGAAATAATGAGAGTTAC
 CATTATGCCAGAAGGCAGTTTAATTTAACCAGCATGACCTTCTCGCTATAAGTTCCCTAAATAACTTTG
 ACAGAGATATGAATAGACTGGAAGAAAGATGTGGTTGGCTTTCAGCTCCACAGGCCTACGTGAGTAAAA
 ACATGAAGCCAATAAGACAATCACCTTTGAGAGAGCAGGACTTCTTTTATTTTCAACTCCACCCAAGC
 AAGAGCTATACGGACTACCGAGTCGGGACAGCAACACCAGGGAAGTTCAAAATGTACTAGATTCTGACG
 CAGCGGAGTATGGAGGTCATCAGAGACTGGACCACAACCAACTACTTTGCTGAGGCTTTTGAACATAA
 TGGGCGCCCTATTCTCTTCTGGTGTACATTCCAAGCCGAGTGGCTCTCATCTTCAGAATGTGGATCTG
 CAAAAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR210139 protein sequence
 Red=Cloning site Green=Tags(s)

MAAPAAPAAGETGPDARLEAALADVPELARLLEIDPYLKPFAADFQRRYKKSQVLHDIGENEGGIDKFS
 RGYESFGIHRCSDDGIYCKEAWPGAEGVFLTGEFSGWNPFSHPYKKLEYGKWEL YIPPKQNKSP LIPHGS
 K LKVVITSKSGEILYRISPWAKYVVRENNVNYDWHWAPEDPYKFKHSRPPKPRSLRIYESHVGISSHE
 GKIASYKHFTSNVLPRIKDLGYNCIQLMAIMEHAYYASFGYQITSFFAASSRYGTPEELKELVDTAHSMG
 IVVLLDVVHSHASKNSEDLNMFDTGDCYFHSRPRGTHDLWDSRLF IYSSWEVLRFLLSNIRWWLEEYC
 FDGFRFDGVTSMLYHHHGMGQGFSGDYNEYFGLQVDEDALIYMLANHLAHTLYPDSITIAEDVSGMPAL
 CSPTSQGGGGFDYRLAMAIPDKWIQLLKEFKDEDWNMGNIVYTLNRRYLEKCVAYAESHQALVGDKTL
 AFWLMDAEMYTNSVLAPFTPVIDRGIQLHKMIRLITHLGGEGYLNFMGNEFGHPWDFPRKGNNESY
 HYARRQFNLTDDLLRYKFLNDFDRDMNRL EERCWLSAPQAYVSEKHEANKTITFERAGLLFIFNFHPS
 KSYTDYRVGTATPGFKIVLDSDAAEYGGHQRLDHNTNYFAEAFEHNGRPYSLLVYIPSRVALILQNVDL
 QN

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_028803

ORF Size: 2109 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_028803.4](#)

RefSeq Size: 2988 bp

RefSeq ORF: 2109 bp

Locus ID: 74185

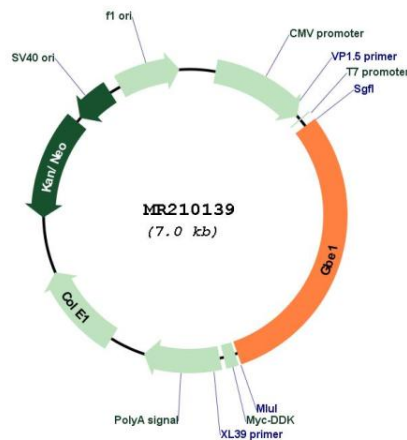
UniProt ID: [Q9D6Y9](#)

Cytogenetics: 16 40.19 cM

MW: 80.4 kDa

Gene Summary: Required for normal glycogen accumulation. The alpha 1-6 branches of glycogen play an important role in increasing the solubility of the molecule.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210139