

Product datasheet for **MR230709**

Gbp3 (NM_001289493) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Gbp3 (NM_001289493) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Gbp3
Synonyms:	AW228655; GBP-3; GBP-4; Gbp4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR230709 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGGCACCCATTTGTCTGGTGGAAAATTTGGAAAATCAGCTGACAGTAAATCTGGAAGCCATAAGGA
 TTCTTGAGCAGATAGCACAGCCTCTGGTGGTGGGCCATTGTTGGTTTATATCGTACAGGGAAGTCCTA
 CCTCATGAATCGTCTTGCAAGACGGAACCATGGCTTCTCCTTGGGCTCCACAGTGAATCCGAAACCAAG
 GGTATCTGGATGTGGTGTGTGCCCATCCACCAAGCCAACACACACCCTGGTCCTTTGGACACTGAAG
 GCCTTGGTGTAGAAAAGGTGACCCTAAGAATGACTCGTGGATCTTCGCCCTGGCTGTGCTTCTGAG
 CAGCACCTTTGTCTACAACAGCATGAGCACCATCAACCAGCAGGCCCTGGAGCAGCTGCATTTTGTGACT
 GAATTAACACAGTAATCCGGGCAAAATCGAGCCCAGAGAGGACAAAGTGAAGGACTCCAGTGAGTTT
 TAGGTTTCTTCCAGACTTATCTGGGCTGTTGAGATTTTCTCTGGAGCTGAAGTTAAATGGTCGGCC
 CATCACAGAAGATGAGTACCTGGAGAATGCCCTGAAGCTGATCCAAGGAGACAATCTCAAAGTCCAACAG
 TCCAACATGACCAGAGAATGTATCAGATATTTTTTCCGGTACGGAAGTCTTTGTCTTTGACAGGCCCA
 CAAGCGACAAACGTTTATTGCTCCAATTTGAAAATGTTCCAGAAAACCAACTGGAACGGAATTTCCAGGT
 TGAATCAGAAAAATCTGTTCTACATCTTACCAACGGCAAGACCAAGACTCTGAGAGGGGGAGTCATT
 GTCACAGGAAATCGGCTGGGACTTTGGTGCAGACCTATGTGAATGCCATCAACAGTGGGACTGTGCCTT
 GTCTGGAGAACGCAGTGACAACCTGGCCAGCGTGAGAACTCCATAGCTGTGCAGAAGGCAGCTGACCA
 CTACAGTGAGCAGATGGCCAGCGAATGAGGCTCCCCACAGACACGCTCCAGGAGCTGCTGACTGTGCAT
 GCAGCCTGTGAGAAGGAAGCCATTGCTGTCTTATGGAGCACTCCTTCAAGGATGATGAGCAGGAGTTCC
 AGAAGAAGCTGGTGGTCACCATAGAGGAAAGGAAGAGAGTTTCATACGACAGAACGAAGCAGCATCTAT
 TCGTCACTGCCAGGCTGAAGTGGAGAGGCTTTCAGAGTCCCTGAGGAAGAGCATCTCCTGTGGAGCTTTC
 TCTGTTCTGGGGTACAGCCTCTACTTAGAAGCCAGGAAGAAGATTGAGCTGGGCTACCAGCAAGTGC
 TGAGGAAGGGAGTGAAGGCAAAAGAGTTCTCAAGAGTTTCTACAGTCACAGGCTATTATGGAGGACTC
 TATCTTGCACTCAGACAAAGCTTACAGATGGAGAGAGCCATAGCAGCTGAGCGGACAAAGAAGGAA
 GTGGCTGAGAAGGAACTAGAGCTGCTGAGGCAGAGACAGAAGGAGCAAGAGCAAGTATGGAGGCTCAGG
 AGAGAAGCTTCCGAGAAAACATTGCTAACTTCCAGGAGAAGTGGAGAGCGAAAAGGAGATGCTGCTGAG
 GGAGCAGGAGAAGATGCTGGAGCACAAGCTGAAGTCCAAGAAGAACTGCTTATTGAAGGATTGAGAGAG
 AAATCTGATATGTTAAAGAAATGAAATAAGTCACCTGAGAGAAGAGATGGAAGAACAAGAAGGAAACCT
 CACTGTTTGGTCAAATCCTTACACCATTGGCAATGCGTTTCAATTATGATTTTACCAGGAGCTGGTAACT
 ATTTGGTGTGGGCTGAAATTCCTCGGCTCACTAAGTAGT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230709 protein sequence
 Red=Cloning site Green=Tags(s)

MEAPICLVENWKNQLTVNLEAIRILEQIAQPLVVVAIVGLYRTGKSYLMNRLAGRNHGFSLGSTVQSETK
 GIWMWCVPHPTKPTHTLVLLDTEGLGDVEKGDPKNDWIFALAVLLSSTFVYNSMSTINQALEQLHFVT
 ELTQLIRAKSSPREDKVDSSEFVGFPPDFIWAVRDFALELKLNGRPITEDEYLENALKLIQGDNLKVQQ
 SNMTRECIRYFFPVRKCFVDRPTSDKRLLLQIENVPENQLERNFQVESEKFCSYIFTNGTKTLRGGVI
 VTGNRLGTLVQTYVNAINSQVPLCLENVTTLAQRENSIAVQKAADHYSEQMAQRMRLPTDTLQELLTVH
 AACEKEAIAVFMESFKDDEQEFQKLVVTIEERKEEFIRQNEAASIRHCQAELELRLSESLRKSISCGAF
 SVPGGHSLYLEARKKIELGYQQVLRKGVKAKEVLKSFLLQSQAIMEDSILQSDKALTDGERIAAERTKKE
 VAEKELELLRQRQKEQEQVMEAQERSFRENIAKLQEKMESEKEMLLREQEKMLEHKLKVQEELLIEGFRE
 KSDMLKNEISHLREEMERTRRPSLFGQILDITIGNAFIMILPGAGKLFVGLKFLGSLSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001289493

ORF Size: 1860 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_001289493.2](#)

RefSeq Size: 2602 bp

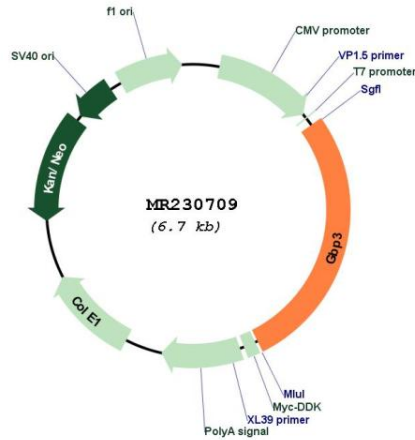
RefSeq ORF: 1863 bp

Locus ID: 55932

UniProt ID: [Q61107](#)

Cytogenetics: 3 H1
MW: 70.8 kDa
Gene Summary: Binds GTP, GDP and GMP. Hydrolyzes GTP very efficiently; GDP rather than GMP is the major reaction product. Plays a role in erythroid differentiation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR230709