

Product datasheet for **RG206627**

GBP5 (NM_052942) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GBP5 (NM_052942) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	GBP5
Synonyms:	GBP-5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG206627 representing NM_052942
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCTTTAGAGATCCACATGTGACACCCCATGTGCCTCATCGAGAACTTTAATGAGCAGCTGAAGTTA
 ATCAGGAAGCTTTGGAGATCCTGTCTGCCATTACGCAACCTGTAGTTGTGGTAGCGATTGTGGCCCTCA
 TCGCACTGGCAAATCCTACCTGATGAACAAGCTGGCTGGGAAGAACAAGGCTTCTCTGTTGCATCTACG
 GTGCAGTCTCACACCAAGGGAATTTGGATATGGTGTGTGCCTCATCCCACTGGCCAAATCACACATTAG
 TTCTGCTTGACACCGAGGGCCTGGGAGATGTAGAGAAGGCTGACAACAAGAATGATATCCAGATCTTTGC
 ACTGGCACTCTTACTGAGCAGCACCTTTGTGTACAATACTGTGAACAAAATTGATCAGGGTGTATCGAC
 CTACTGCACAATGTGACAGAAGTACAGATCTGCTCAAGGCAAGAACTCACCCGACCTTGACAGGGTTG
 AAGATCCTGCTGACTCTGCGAGCTTCTCCAGACTTAGTGTGGACTCTGAGAGATTTCTGCTTAGGCCCT
 GGAATAGATGGCAACTTGTACACCAGATGAATACCTGGAGAATCCCTAAGGCCAAAGCAAGGTAGT
 GATCAAAGAGTTCAAATTTCAATTTGCCCGTCTGTGTATACAGAAGTTCTTTCCAAAAAGAAATGCT
 TTATCTTTGACTTACCTGCTCACCAAAAAAGCTTGCCCAACTTGAAACACTGCCTGATGATGAGCTAGA
 GCCTGAATTTGTGCAACAAGTGACAGAATCTGTTCTACATCTTTAGCCATTCTATGACCAAGACTCTT
 CCAGGTGGCATCATGGTCAATGGATCTCGTCTAAAGAACCTGGTGTGACCTATGTCAATGCCATCAGCA
 GTGGGGATCTGCCTTGCATAGAGAATGCAGTCTGGCCTTGGCTCAGAGAGAGAAGTCAAGTGCAGTGC
 AAAGGCCATTGCCACTATGACCAGCAATGGCCAGAAAGTGCAGCTGCCCATGGAAACCTCCAGGAG
 CTGCTGGACCTGCACAGGACAGTGAAGGGAGGCCATTGAAGTCTTCAAGAAAAGTCAAGGATG
 TAGACCAAAGTTCCAGAAAAGTGGAGACTCTACTAGATGCAAAACAGAATGACATTTGTAACGGAA
 CCTGGAAGCATCCTCGGATTATTGCTCGGCTTTACTTAAGGATATTTTGGTCTCTAGAAGAAGCAGTG
 AAGCAGGGAATTTATTCTAAGCCAGGAGCCATAATCTTTCATTAGAAAACAGAAAGTGAAGGCAA
 AGTACTATCGGGAGCCTCGGAAAGGAATACAGGCTGAAGAAGTCTGCAGAAATATTTAAAGTCCAAGGA
 GTCTGTGAGTCATGCAATATTACAGACTGACCAGGCTCTCACAGAGACGGAAAAAAGAAGAAAGAGGCA
 CAAGTGAAGCAGAAGCTGAAAAGGCTGAAGCGCAAAGTTGGCGGCGATTCAAAGGCAGAACGAGCAAA
 TGATGCAGGAGAGGGAGAGACTCCATCAGGAACAAGTGAAGCAATGGAGATAGCCAAACAAAATTTGGCT
 GGCAGAGCAACAGAAAATGCAGGAACAACAGATGCAGGAACAGGCTGCACAGCTCAGCACAAACATCCAA
 GCTCAAATAAGAAGCCTTCTCAGTGAGCTCCAGCACGCCAGAGGACTGTTAATAACGATGATCCATGTG
 TTTTACTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG206627 representing NM_052942
 Red=Cloning site Green=Tags(s)

MALEIHMSDPMCLIENFNEQLKVNQEALILEILSAITQPVVVVAIVGLYRTGKSYLMNKLAKGNKGFVAVST
 VQSHTKGIWIWCVPHNPNHTLVLLDTEGLGDVEKADNKNDIQIFALALLLSSTFVYNTVKNIDQGAID
 LLHNVTELTDLKARNSPDLDRVEDPADSASFDPDLVWTLRDFCLGLEIDGQLVTPDEYLENSLRPKQGS
 DQRVQNFNLPRLCIQKFFPKKCFIFDLPAHQKLAQLETLPDDELEPEFVQVTEFCSYIFSHSMTKTL
 PGGIMVNGSRLKNLVLTYVNAISSDGLPCIENAVLALAQRENSAAVQKAI AHYDQMQGQKVLPMETLQE
 LLDLHRTSERAIEVFMKNSFKVDVQSFQKELETL L DAKQNDICKRNLEASSDYCSALLKDFGPLEEAV
 KQGIYSKPGGHNLFIQKTEELKAKYYREPRKGIQAEV L QKYLKSKEVSHAILQTDQAL TETEKKKKEA
 QVKAEEKAEQAQLAAIQRQNEQMMQERERLHQEQVRQMEIAKQNWLAEQQKMQEQMQEQAAQLSTTFQ
 AQNRSLSELQHAQRTVNNDDPCVLL

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_052942

ORF Size: 1758 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_052942.4](#)

RefSeq Size: 2431 bp

RefSeq ORF: 1761 bp

Locus ID: 115362

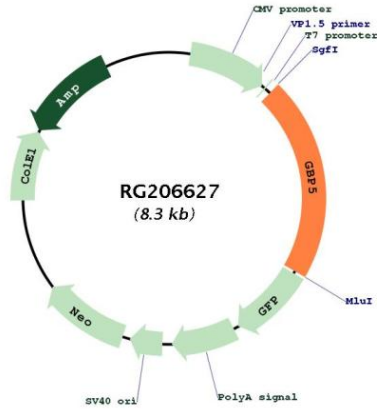
UniProt ID: [Q96PP8](#)

Cytogenetics: 1p22.2

Domains: GBP

Gene Summary: This gene belongs to the TRAFAC class dynamin-like GTPase superfamily. The encoded protein acts as an activator of NLRP3 inflammasome assembly and has a role in innate immunity and inflammation. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2017]

Product images:



Circular map for RG206627