

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**

ATGGCTTTAGAGATCCACATGTGACACCCCATGTGCCTCATCGAGAAGTTAATGAGCAGCTGAAGTTA
 ATCAGGAAGCTTTGGAGATCCTGTCTGCCATTACGCAACCTGTAGTTGTGGTAGCGATTGTGGCCCTCA
 TCGCACTGGCAAATCCTACCTGATGAACAAGCTGGCTGGGAAGAACAAGGCTTCTCTGTTGCATCTACG
 GTGCAGTCTCACACCAAGGGAATTTGGATATGGTGTGTGCCTCATCCCACTGGCCAAATCACACATTAG
 TTCTGCTTGACACCGAGGCTGGGAGATGTAGAGAAGGCTGACAACAAGAATGATATCCAGATCTTTGC
 ACTGGCACTCTTACTGAGCAGCACCTTTGTGTACAATACTGTGAACAAAATTGATCAGGGTCTATCGAC
 CTACTGCACAATGTGACAGAAGTACAGATCTGCTCAAGGCAAGAACTCACCCGACCTTGACAGGGTTG
 AAGATCCTGCTGACTCTGCGAGCTTCTCCAGACTTAGTGTGGACTCTGAGAGATTTCTGCTTAGGCCCT
 GGAATAGATGGCAACTTGTACACCAGATGAATACCTGGAGAATCCCTAAGGCCAAAGCAAGGTAGT
 GATCAAAGAGTTCAAATTTCAATTTGCCCGTCTGTGTATACAGAAGTTCTTTCCAAAAAGAAATGCT
 TTATCTTTGACTTACCTGCTCACCAAAAAAGCTTGCCCAACTTGAAACTGCCTGATGATGAGCTAGA
 GCCTGAATTTGTGCAACAAGTGACAGAATCTGTTCTACATCTTTAGCCATTCTATGACCAAGACTCTT
 CCAGGTGGCATCATGGTCAATGGATCTCGTCTAAAGAACCTGGTGTGACCTATGTCAATGCCATCAGCA
 GTGGGGATCTGCCTTGCATAGAGAATGCAGTCTGGCCTTGGCTCAGAGAGAGAAGTCAAGTGCAGTGC
 AAAGGCCATTGCCACTATGACCAGCAATGGCCAGAAAGTGCAGCTGCCATGGAAACCTCCAGGAG
 CTGCTGGACCTGCACAGGACAGTGAAGGGAGGCCATTGAAGTCTTCAAAAACTCTTTCAAGGATG
 TAGACCAAAGTTCCAGAAAGAATTGGAGACTCTACTAGATGCAAAACAGAATGACATTTGTAACGGAA
 CCTGGAAGCATCCTCGGATTATTGCTCGGCTTTACTTAAGGATATTTTTGGTCTCTAGAAGAAGCAGTG
 AAGCAGGGAATTTATTCTAAGCCAGGAGCCATAATCTTTCATTGAGAAAACAGAAAGTGAAGGCAA
 AGTACTATCGGGAGCCTCGGAAAGGAATACAGGCTGAAGAAGTTCTGCAGAAATATTTAAAGTCCAAGGA
 GTCTGTGAGTCAATATTACAGACTGACCAGGCTCTCACAGAGACGAAAAAAGAAGAAAGAGGCA
 CAAGTGAAGCAGAAGCTGAAAAGGCTGAAGCGCAAAGTTGGCGCGATTCAAAGGCAGAACGAGCAAA
 TGATGCAGGAGAGGAGACTCCATCAGGAACAAGTGAAGCAATGGAGATAGCCAAACAAAATTTGGCT
 GGCAGAGCAACAGAAAATGCAGGAACAACAGATGCAGGAACAGGCTGCACAGCTCAGCACAACTCCAA
 GCTCAAATAGAAGCCTTCTCAGTGAGCTCCAGCACGCCAGAGGACTGTTAATAACGATGATCCATGTG
 TTTTACTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

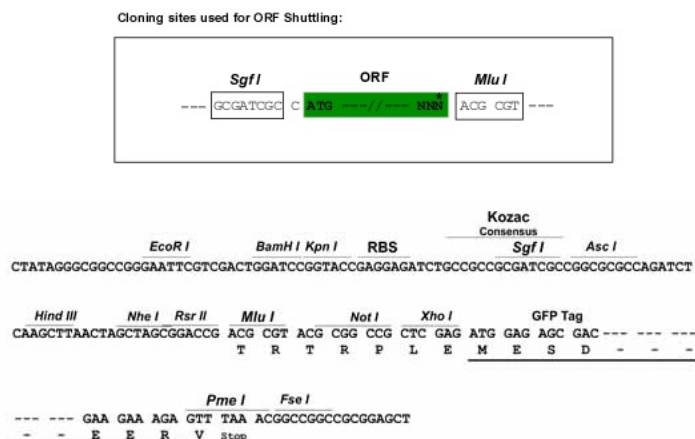
>RG206627 representing NM_052942
 Red=Cloning site Green=Tags(s)

MALEIHMSDPMCLIENFNEQLKVNQEALILEILSAITQPVVVVAIVGLYRTGKSYLMNKLAKGNKGFVAVST
 VQSHTKGIWIWCVPHNPNHTLVLLDTEGLGDVEKADNKNDIQIFALALLLSSTFVYNTVKNIDQGAID
 LLHNVTETDCLKARNSPDLDRVEDPADSASFVDFVWTLRDFCLGLEIDGQLVTPDEYLENSLRPKQGS
 DQRVQNFNLPRLCIQKFFPKKCFIFDLPAHQKLAQLETLPDDELEPEFVQVTEFCSYIFSHSMTKTL
 PGGIMVNGSRLKNLVLTYVNAISSDGLPCIENAVLALAQRENSAAVQKAI AHYDQMQGQKQVQLPMETLQE
 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

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