

Product datasheet for **SC120169**

GBP5 (NM_052942) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GBP5 (NM_052942) Human Untagged Clone
Tag:	Tag Free
Symbol:	GBP5
Synonyms:	GBP-5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC120169 sequence for NM_052942 edited (data generated by NextGen Sequencing)

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ATGGCTTTAGAGATCCACATGTCAGACCCCATGTGCCTCATCGAGAACTTTAATGAGCAG
CTGAAGGTTAATCAGGAAGCTTTGGAGATCCTGTCTGCCATTACGCAACCTGTAGTTGTG
GTAGCGATTGTGGGCTCTATCGCACTGGCAAATCCTACCTGATGAACAAGCTGGCTGGG
AAGAACAAGGGCTTCTCTGTTGCATCTACGGTGCAGTCTCACACCAAGGGAAATTTGGATA
TGTTGTGTGCCTCATCCCAACTGGCCAAATCACACATTAGTTCTGCTTGACACCCGAGGGA
CTGGGAGATGTAGAGAAGGCTGACAACAAGAATGATATCCAGATCTTTGCACTGGCACTC
TACTGAGCAGCACCTTTGTGTACAATACTGTGAACAAAATTGATCAGGGTGCTATCGAC
CTACTGCACAATGTGACAGAAGTACAGATCTGCTCAAGGCAAGAACTCACCCGACCTT
GACAGGGTTGAAGATCCTGCTGACTCTGCGAGCTTCTCCAGACTTAGTGTGGACTCTG
AGAGATTTCTGCTTAGGCCTGGAATAGATGGGCAACTTGTACACCAGATGAATACCTG
GAGAATTCCTAAGGCCAAAGCAAGGTAGTGATCAAAGAGTTCAAATTTCAATTTGCC
CGTCTGTGTATACAGAAGTTCTTTCAAAAAAGAAATGCTTTATCTTTGACTTACCTGCT
CACCAAAAAAGCTTGCCCAACTTGAAACTGCCTGATGATGAGCTAGAGCCTGAATTT
GTGCAACAAGTGACAGAATTCTGTTCTACATCTTTAGCCATTCTATGACCAAGACTCTT
CCAGGTGGCATCATGGTCAATGGATCTCGTCTAAGAACCTGGTGTGACCTATGTCAAT
GCCATCAGCAGTGGGGATCTGCCTTGCATAGAGAATGCAGTCTGGCCTTGGCTCAGAGA
GAGAACTCAGCTGCAGTGCAAAAGGCCATTGCCACTATGACCAGCAAATGGGCCAGAAA
GTGCAGCTGCCATGGAAACCTCCAGGAGCTGCTGGACTGCACAGGACCAGTGAGAGG
GAGGCCATTGAAGTCTTCATGAAAACTCTTTCAAGGATGTAGACCAAAGTTCCAGAAA
GAATTGGAGACTCTACTAGATGCAAAACAGAATGACATTTGTAACCGAACCTGGAAGCA
TCCTCGGATTATTGCTCGGCTTTACTTAAGGATATTTTTGGTCTCTAGAAGAAGCAGT
AAGCAGGGAATTTATTCTAAGCCAGGAGCCATAATCTCTTCATTACAGAAAACAGAAGAA
CTGAAGGCAAAGTACTATCGGGAGCCTCGGAAAGGAATACAGGCTGAAGAAGTTCTGCAG
AAATATTTAAAGTCCAAGGAGTCTGTGAGTCATGCAATATTACAGACTGACCAGGCTCTC
ACAGAGACGAAAAAAGAAGAAAGAGGCACAAGTGAAGCAGAAAGCTGAAAAGGCTGAA
GCGCAAAGGTTGGCGGCGATTCAAAGGCAGAACGAGCAAATGATGCAGGAGAGGGAGAGA
CTCCATCAGGAACAAGTGAGACAAATGGAGATAGCCAAACAAAATGGCTGGCAGAGCAA
CAGAAAAATGCAGGAACAACAGATGCAGGAACAGGCTGCACAGCTCAGCACAAACATTTCAA
GCTCAAAATAGAAGCCTTCTCAGTGAGCTCCAGCACGCCAGAGGACTGTTAATAACGAT
GATCCATGTGTTTTACTCTAA

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Clone variation with respect to NM_052942.3

5' Read Nucleotide Sequence: >OriGene 5' read for NM_052942 unedited

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GGGTCAACATTTGTATACGACTCATATAGCGGCCGCGAAATTCGCACGAGGCGAAGGTC
TGCAGCTTCACTCCTGAGCCAGCCAGACCACGAACCCACCAGAAGGAAGAACTCCAAAC
ACATCCGAACATCAGAAGGAGCAAACCTCGTGACACGCCACCTTTAAGAACCCTGACACTC
AACGCTAGGGTCCGCGGCTTCTTCTTGAAGTCAGTGAGACCAAGAACCACCAATTCGG
GACACGGCAAAGTAAACATCCTAGACATGGCTTTAGAGATCCACATGTCAGACCCCATGTG
CCTCATCGAGAACTTTAATGAGCAGCTGAAGGTTAATCAGGAAGCTTTGGAGATCCTGTC
TGCCATTACGCAACCTGTAGTTGTGGTAGCGATTGTGGCCTCTATCGCACTGGCAAATC
CTACCTGATGAACAAGCTGGCTGGGAAGAACAAGGGCTTCTCTGTTGCATCTACGGTGCA
GTCTCACACCAAGGGAATTTGGATATGGTGTGTGCCTCATCCCAACTGGCCAAATCACAC
ATTAGTTCTGCTTGACACCGAGGCTGGGAGATGTAGAGAAGGCTGACAACAAGATGA
TATCCAGATCTTTGCACTGGCACTTACTGAGCAGCACCTTTGTGTACAATACTGTGAA
CAAAATGATCAGGGTGCTATCGACCTACTGCACAATGTGACAGAAGTACAGATCTGCT
CAAGGCAAGAACTCACCCGACCTTGACAGGGGTTGAAGATCCTGCTGACTCTGCGAGCT
TCTTCCAGACTTAGTGTGGACTCTGAGAGATTTCTGCTTAGGCCTGGAATAGATGGGCA
ACTTGTACACCAGATGAATACCTGGAGAAATCCCCTAGGGCCAAGCAGGTAGTGATCAA
AGAGNTCAAAATTNCATTTGCCNCGN

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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_052942 unedited GTCCTAGCTATGNNACCGGGCGCAATCTANGATCGAGTTTTTTTTTTTTTTTTTTGAA AAAAAATTATAAAGTTTATTTAAATGTTGATGGGCCCAAGGTCTACAGTTCTTTTCTGT TGTGTCATCAGTGACAAAGAGTAAAAAAGGAACTCCCATATTTAGCACTTTAGAGTAA AACACATGGATCATCGTTATTAACAGTCCTCTGGGCGTGCTGGAGCTCACTGAGAAGGCT TCTATTTTGAGCGTGGAATGTTGTGCTGAGCTGTGCAGCCTGTTCTGCATCTGTTGTTT CTGCATTTTCTGTTGCTCTGCCAGCCAATTTGTTTGGCTATCTCCATTTGTCTCACTTG TTCCTGATGGAGTCTCTCCTCTCCTGCATCATTGCTCGTTCTGCCTTTGAATCGCCGC CAACCTTTGCGCTTCAGCCTTTTCACTTCTGCTTCACTTGTGCCTCTTTCTTTCTTTT TTCCGTCTCTGTGAGAGCCTGGTCAGTCTGTAATATTGCATGACTCACAGACTCCTTGG CTTTAAATATTTCTGCAGAACTTCTTCAGCCTGTATTCTTTCCGAGGCTCCCGATAGTA CTTTGCCTTCAGTTCTTCTGTTTTCTGAATGAAGAGATTATGGCCTCCTGGCTAAAAT AAATCCCTGCTCACTGCTTCTCTAGAGGACCAAAAAATCCTTAAGTAAAGCCGAGC AATAATCCGAGGATGCTCCAGGTTCCGTTTACAATGTCATTCTGTTTTGCATCTAGTA GAGTCTCCAATTCTTTCTGGAACTTTGGTCTACATCCTGAAGAGTTTTTCATGAAGAC TTCAATGGCCCCCTCTCACTGGTCTGTGCAGGTCANCACTCCTGGNAGGTTTCCATG GGCAGCTGCCC
Restriction Sites:	NotI-NotI
ACCN:	NM_052942
Insert Size:	2250 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none"> 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:	<u>NM_052942.2</u> , <u>NP_443174.1</u>
RefSeq Size:	2431 bp
RefSeq ORF:	1761 bp
Locus ID:	115362
UniProt ID:	<u>Q96PP8</u>
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]

Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 both encode the same protein. Sequence Note: The RefSeq transcript and protein were derived from transcript and genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.