

## Product datasheet for **SC325215**

### **GBP5 (NM\_001134486) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	GBP5 (NM_001134486) Human Untagged Clone
Tag:	Tag Free
Symbol:	GBP5
Synonyms:	GBP-5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

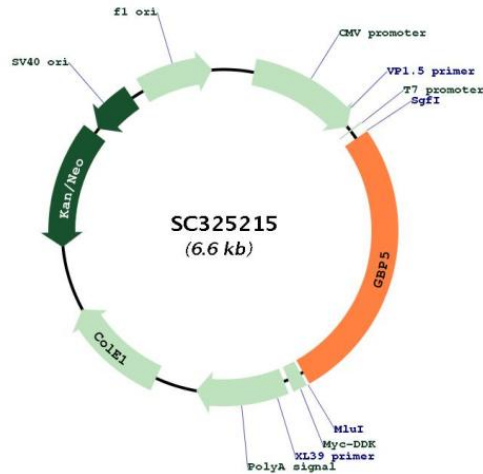


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Fully Sequenced ORF: >SC325215 representing NM\_001134486.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCTTTAGAGATCCACATGTCCAGACCCCATGTGCCTCATCGAGAATTTAATGAGCAGCTGAAGTT
AATCAGGAAGCTTTGGAGATCCTGTCTGCCATTACGCAACCTGTAGTTGTGGTAGCGATTGTGGCCTC
TATCGCACTGGCAAATCCTACCTGATGAACAAGCTGGCTGGGAAGAACAAGGGCTTCTCTGTTGCATCT
ACGGTGCAGTCTCACACCAAGGGAATTTGGATATGGTGTGTGCCTCATCCCAACTGGCCAATCACACA
TTAGTTCTGCTTGACACCGAGGGCTGGGAGATGTAGAGAAGGCTGACAACAAGAATGATATCCAGATC
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AGGTTGAAGATCCTGCTGACTCTGCGAGCTTCTCCAGACTTAGTGTGGACTCTGAGAGATTTCTGC
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AAGAAATGCTTTATCTTTGACTTACCTGCTCACAAAAAAGCTTGCCCAACTTGAAACACTGCCTGAT
GATGAGCTAGAGCCTGAATTTGTGCAACAAGTGACAGAATTTCTGTTCTACATCTTTAGCCATTCTATG
ACCAAGACTCTTCCAGGTGGCATCATGGTCAATGGATCTCGTCTAAGAAGCTGGTGTGACCTATGTC
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CCTCTAGAAGAAGCAGTGAAGCAGGGAATTTATTCTAAGCCAGGAGGCCATAATCTCTTATTAGAAA
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GAGATAGCCAAACAAAATTTGGCTGGCAGAGCAACAGAAAATGCAGGAACAACAGATGCAGGAACAGGCT
GCACAGCTCAGCACAACATTCAGCTCAAATAGAAGCCTTCTCAGTGAGCTCCAGCACGCCAGAGG
ACTGTTAATAACGATGATCCATGTGTTTTACTTAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI

**Plasmid Map:**


**ACCN:** NM\_001134486

**Insert Size:** 1761 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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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\\_001134486.2](#)

**RefSeq Size:** 3957 bp

**RefSeq ORF:** 1761 bp

**Locus ID:** 115362

**UniProt ID:** [Q96PP8](#)

**Cytogenetics:** 1p22.2

**MW:** 66.6 kDa

**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 (2) lacks a segment in the 5' UTR, compared to variant 1. Variants 1 and 2 both encode the same protein.