OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC218756

GBP7 (NM_207398) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GBP7 (NM_207398) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GBP7
Synonyms:	GBP4L
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

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ORF Nucleotide Sequence:

>RC218756 representing NM_207398
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

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TCCTTCTGGACACGGAGGGCCTGGGTGATATGGAAAAGAGTGACCCTAAGAGTGACTCGTGGATCTTTGC
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ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

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>RC218756 representing NM_207398
Red=Cloning site Green=Tags(s)

MASEIHMPGPVCLTENTKGHLVVNSEALEILSAITQPVVVVAIVGLYRTGKSYLMNKLAGKNKGFPLGCT
VKSETKGIWMWCVPHPSKPNHTLILLDTEGLGDMEKSDPKSDSWIFALAVLLSSSFVYNSMGTINHQALE
QLHYVTELTELIRAKSCPRPDEVEDSSEFVSFFPDFIWTVRDFTLELKLDGHPITEDEYLENALKLISGK
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LREGILVTGNRLGMLVETYLDAINSGATPCLENAMAVLAQCENSAAVQRAANHYSQQMAQQVRFPTDTLQ
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KQAKKEAAEKEQELLRQKQKEQQQMMEAQERSFQENIAQLKKKMERERENYMRELRKMLSHKMKVLEELL
TEGFKEIFESLNEEINRLKEQIEAAENEEPSVFSQILDVAGSIFIAALPGAAKLVDLGMKILSSLCNRLR
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TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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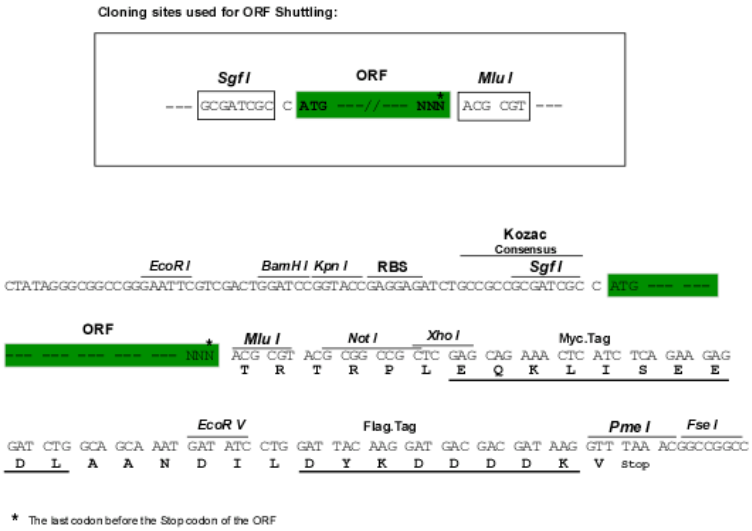
Chromatograms: https://cdn.origene.com/chromatograms/mk8021_c05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_207398

ORF Size: 1914 bp

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OTI Disclaimer:	Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery. 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_207398.3
RefSeq Size:	2418 bp
RefSeq ORF:	1917 bp
Locus ID:	388646
UniProt ID:	Q8N8V2
Cytogenetics:	1p22.2
MW:	72.3 kDa
Gene Summary:	Guanylate-binding proteins, such as GBP7, are induced by interferon and hydrolyze GTP to both GDP and GMP (Olszewski et al., 2006 [PubMed 16689661]).[supplied by OMIM, Dec 2008]

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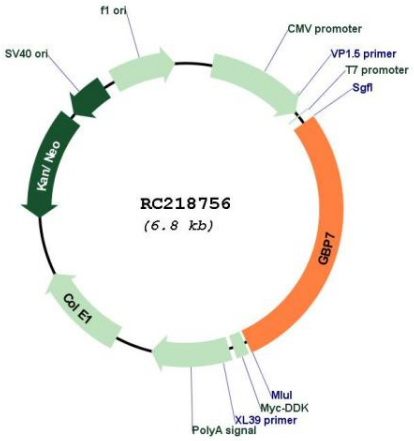
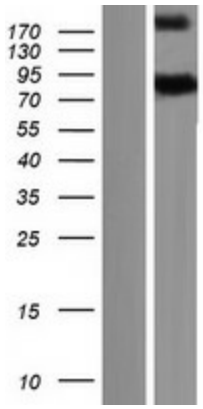
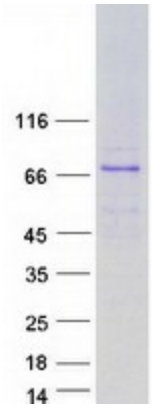
Product images:



Circular map for RC218756



Western blot validation of overexpression lysate (Cat# [LY404008]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC218756 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GBP7 protein (Cat# [TP318756]). The protein was produced from HEK293T cells transfected with GBP7 cDNA clone (Cat# RC218756) using MegaTran 2.0 (Cat# [TT210002]).

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