

Product datasheet for RC210451

GTPBP10 (NM_033107) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GTPBP10 (NM_033107) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GTPBP10
Synonyms:	ObgH2; UG0751c10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC210451 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGGTGCATTGCAGTTGCGTGTTGTTTCAGAAAGTACGGAAATTCATCGATAAGCTAAGACTCTTCACCA
 GGGGAGGATCCGGTGAATGGGTTATCCTCGTTTAGGTGGAGAAGGTGGAAAAGGTGGTATGTCTGGGT
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 CATCAAAGCATGCTGTTACTACTTCCAAATGGATATAATT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA


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Protein Sequence: >RC210451 protein sequence
 Red=Cloning site Green=Tags(s)

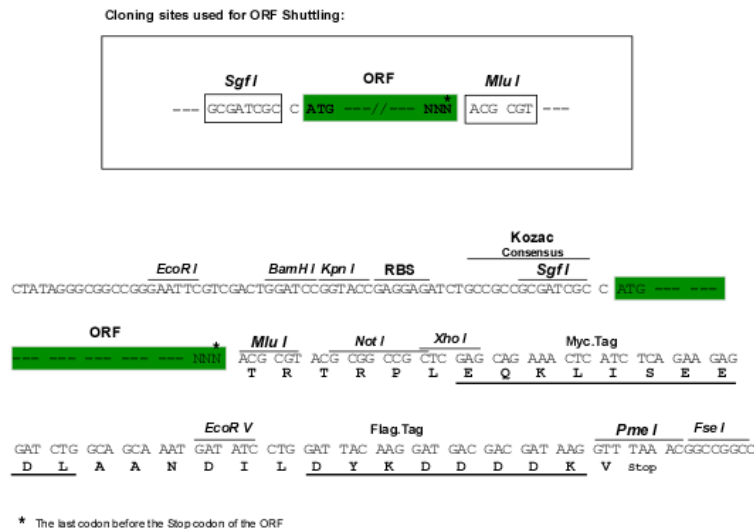
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 VGANSKISALKGSKGKDWEIPVPVGISVTDENGKIIGELNKENDRILVAQGGLGGKLLTNFLPLKGQKRI
 IHLDLKLIADVGLVGFNPAGKSSLLSCVSHAKPAIADYAFITLKPELGKIMYSDFKQISVADLPGLIEGA
 HMNKGMGHKFLKHIERTRQLLFVVDISGFLSSHTQYRTAFETIILLTKELEYKEELQTKPALLAVNKM
 DLPDAQDKFHELMSQLQNPDKFLHLFEKNMIPERTVEFQHIIPISAVTGEIEELKNCIRKSLDEQANQE
 NDALHKKQLNLWISDTMSSTEPSPSKHAVTTSKMDII

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6555_f08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_033107

ORF Size: 1161 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_033107.4](#)

RefSeq Size: 7550 bp

RefSeq ORF: 1164 bp

Locus ID: 85865

UniProt ID: [A4D1E9](#)

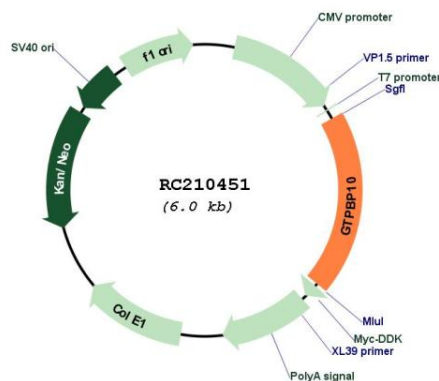
Cytogenetics: 7q21.13

Domains: GTP1_OBG

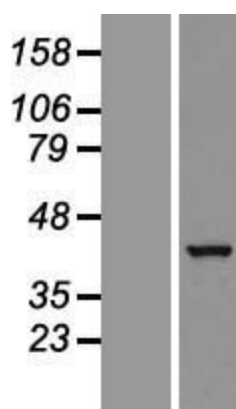
MW: 42.9 kDa

Gene Summary: Small G proteins, such as GTPBP10, act as molecular switches that play crucial roles in the regulation of fundamental cellular processes such as protein synthesis, nuclear transport, membrane trafficking, and signal transduction (Hirano et al., 2006 [PubMed 17054726]). [supplied by OMIM, Mar 2008]

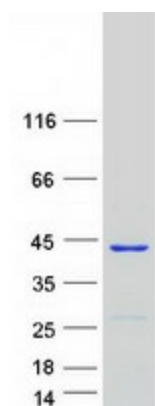
Product images:



Circular map for RC210451



Western blot validation of overexpression lysate (Cat# [LY409714]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC210451 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GTPBP10 protein (Cat# [TP310451]). The protein was produced from HEK293T cells transfected with GTPBP10 cDNA clone (Cat# RC210451) using MegaTran 2.0 (Cat# [TT210002]).