

Product datasheet for **RC200217**

GTPBP6 (NM_012227) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	GTPBP6
Synonyms:	PGPL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC200217 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGACTCGAGCCGAGTGGCAGGTGGCGGAGGCCACAGCGCTGGTGACACGCTGGACGGCTGGTCCGTGG
TGCAGACAATGGTCTGTCCACCAAAACGCCGACAGGAAGCTCATCTTTGGCAAAGGGAATTTGAGCA
CCTGACAGAAAAGATCCGAGGGTCTCCAGACGTCACGTGCGTCTTCCTGAACGTGGAGAGGATGGCTGCC
CCGACCAAGAAAGAACTGGAAGCCGCTGGGGCGTGGAGGTGTTGACCGCTTCACGGTCGCTCTGCACA
TCTTCCGCTGTAAACGCCGCACGAAGGAGGCCCGCTTCAGGTGGCCCTGGCGGAGATGCCGCTGCACAG
GTCAAACTTGAAGGGACGTCGCCACCTGTACCGAGGAGTCGGCTCGCGCTACATCATGGGGTCAGGA
GAATCCTTCATGCAGCTGCAGCAGCGTCTCCTGAGAGAGAAGGAGGCCAAGATCAGGAAGGCCTTGACA
GGCTTCGCAAGAAGAGGCACCTGCTCCGCCGACGCGACGAGCGGGAGTTCCCGTGATCTCCGTGGT
GGGGTACACCAACTGCGGAAAGACACGCTGATCAAGGCACTGACGGGCGATGCCGCCATCCAGCCACGG
GACCAGCTGTTTGCCACGCTGGACGTCACGGCCACGCGGGCAGCTGCCCTACGCATGACCGTCTGT
ACGTGGACACCATCGGCTTCTCTCCAGCTGCCGCACGGCTCATCGAGTCTTCTCCGCCACCTGGA
AGACGTGGCCCACTCGGATCTCATCTTGCACGTGAGGAGCTCAGCACCCCGAGGCGGAGCTCCAGAAA
TGCAGCGTTCTGTCCACGCTGCGTGGCTGCAGCTGCCGCCCGCTCCTGGACTCCATGGTGGAGGTTT
ACAACAAGGTGGACCTCGTCCCGGTACAGCCACGGAACCGAAGCTCGTGGCGGTGTCTGCCCTGCG
GGGCCACGGCTCCAGGAGCTGAAAGCTGAGCTCGATGCGGCGGTTTGAAGGCGACGGGGAGACAGATC
CTCACTCTCGTGTGAGGCTCGCAGGGGCGCAGCTCAGCTGGCTGTATAAGGAGGCCACAGTTCAGGAGG
TGGACGTGATCCCTGAGGACGGGGCGCCGACGTGAGGGTCATCATCAGCAACTCAGCCTACGGCAAATT
CCGGAAGCTCTTCCAGGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence:

>RC200217 protein sequence
 Red=Cloning site Green=Tags(s)

MTRAEWQVAEATALVHTLDGWSVVQTMVVSTKTPDRKLIFGKGNFEHLTEKIRGSPDVTCTVFLNVERMAA
 PTKKELEAAWGVFDRFTVVLHIFRCNARTKEARLQVALAEMPLHRSNLKRDVAHLRGGVSRVIMSG
 ESFMQLQQRLREKEAKIRKALDRLKRRHLLRQRTREFPVISVVGYNCGKTTLIKALTGDAAIQPR
 DQLFATLDVTAHAGTLP SRMTVLYVDTIGFLSQLPHGLIESFSATLEDVAHSDLIHVRDVSHPEALQK
 CSVLSTLRGLQLPAPLLDSMVEVHNKVDLVPGYSPTEPNVVPVSALRGHGLQELKAELDAAVLKATGRQI
 LTLRVRLAGACLWLKYKATVQEVDPEDGAADVRIISNSAYGKFRKLFPG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

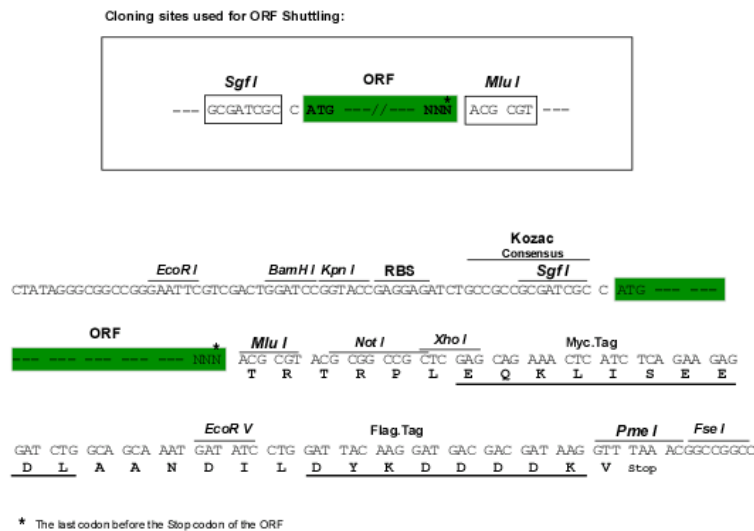
Chromatograms:

https://cdn.origene.com/chromatograms/mk6418_f11.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN:

NM_012227

ORF Size:

1209 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_012227.1](#), [NP_036359.1](#)

RefSeq Size: 1922 bp

RefSeq ORF: 1551 bp

Locus ID: 8225

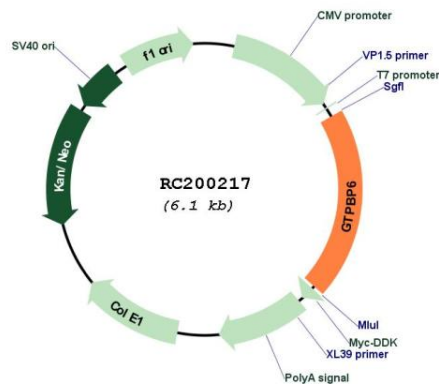
UniProt ID: [O43824](#)

Cytogenetics: X;Y

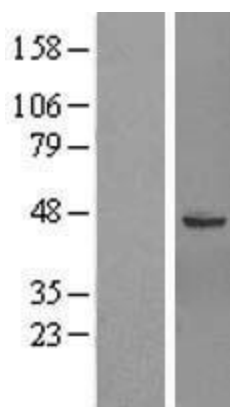
MW: 45 kDa

Gene Summary: This gene encodes a GTP binding protein and is located in the pseudoautosomal region (PAR) at the end of the short arms of the X and Y chromosomes. [provided by RefSeq, Nov 2011]

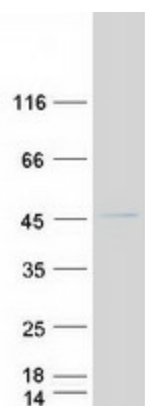
Product images:



Circular map for RC200217



Western blot validation of overexpression lysate (Cat# [LY415902]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200217 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GTPBP6 protein (Cat# [TP300217]). The protein was produced from HEK293T cells transfected with GTPBP6 cDNA clone (Cat# RC200217) using MegaTran 2.0 (Cat# [TT210002]).