

## Product datasheet for RC203267

### GPN3 (NM\_016301) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GPN3 (NM_016301) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GPN3
Synonyms:	ATPBD1C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203267 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCTCGGTATGCGCAGCTGGTCATGGGCCCGCGGGCAGCGGGAAGAGCACCTACTGTGCCACCATGG  
TCCAGCACTGTGAAGCCCTCAACCGTCTGTCCAAGTTGTAAACCTGGATCCAGCAGCAGAACACTTCAA  
CTACTCCGTGATGGCTGACATCCGGAACTGATCGAGGTGGATGATGTAATGGAGGATGATTCTCTGCGA  
TTCGGTCCCAACGGAGGATTGGTATTTTGCATGGAGTACTTTGCCAATAATTTTGACTGGCTGGAGAACT  
GTCTTGCCATGTAGAGGACGACTATATCCTTTTTGATTGTCCAGGTCAGATTGAGTTGTACACTCACCT  
GCCTGTGATGAAACAGCTGGTCCAGCAGCTCGAGCAGTGGGAGTCCGAGTCTGTGGAGTTTTCTTGT  
GATTCTCAGTTTCATGGTGGAGTCATTCAAGTTTATTTCTGGCATCTTGGCAGCCCTGAGTGCCATGATCT  
CTCTAGAAATCCGCAAGTCAACATCATGACAAAAATGGATCTGCTGAGTAAAAAGCAAAAAAGGAAAT  
TGAGAAATTTTTAGATCCAGACATGATTTCTTTATTAGAAGATTCTACAAGTGACTTAAGAAGCAAAAA  
TTCAAGAACTGACTAAAGCTATATGTGGACTGATTGATGACTACAGCATGGTTCGATTTTTACCTTACG  
ATCAGTCAGATGAAGAAAGCATGAACATTGCATTGCAGCATATTGATTTGCCATTCAATATGGAGAAGA  
CCTAGAATTTAAAGAACCAAGGAACGTGAAGATGAGTCTTCTCTATGTTTGACGAATATTTTCAAGAA  
TGCCAGGATGAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC203267 protein sequence  
Red=Cloning site Green=Tags(s)

MPRYAQLVMGPAGSGKSTYCATMVQHCEALNRSVQVVNLDPAAEHFNYSVMADIRELIEVDDVMEDDSLRF  
 FGPNGGLVFCMEYFANNFDWLENCLGHVEDDYILFDPCGQIELYTHLPVMKQLVQLEQWEFRVCGVFLV  
 DSQFMVESFKFISGILAAALSAMISLEIPQVNIMTKMDLLSKKAKKEIEKFLDPMYSLLEDSTSDLRSKK  
 FKLLTKAICGLIDDYSMVRFLPYDQSDDESMNIALQHIDFAIQYGEDLEFKEPKEREDESSMFDEYFQE  
 CQDE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6416\\_g05.zip](https://cdn.origene.com/chromatograms/mk6416_g05.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_016301

**ORF Size:** 852 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\\_016301.2](#), [NP\\_057385.2](#)

**RefSeq Size:** 1505 bp

**RefSeq ORF:** 855 bp

**Locus ID:** 51184

**UniProt ID:** [Q9UHW5](#)

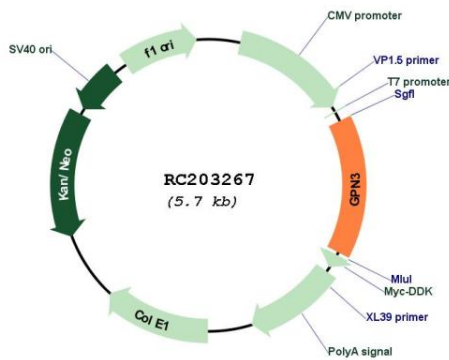
**Cytogenetics:** 12q24.11

**Domains:** ATP-bind

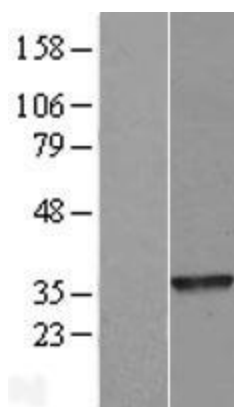
**MW:** 32.7 kDa

**Gene Summary:** Small GTPase required for proper localization of RNA polymerase II (RNAPII). May act at an RNAP assembly step prior to nuclear import.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for RC203267



Western blot validation of overexpression lysate (Cat# [LY414072]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203267 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).