

Product datasheet for **RG203267**

GPN3 (NM_016301) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	GPN3
Synonyms:	ATPBD1C
Mammalian Cell	Neomycin
Selection:	
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG203267 representing NM_016301
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCCTCGGTATGCGCAGCTGGTCATGGGCCCCGCGGCAGCGGGAAGAGCACCTACTGTGCCACCATGG
TCCAGCACTGTGAAGCCCTCAACCGGTCTGTCCAAGTTGTAACCTGGATCCAGCAGCAGAACACTTCAA
CTACTCCGTGATGGCTGACATCCGGGAAGTATCGAGGTGGATGATGTAATGGAGGATGATTCTCTGCGA
TTCGGTCCCAACGGAGGATTGGTATTTTGCATGGAGTACTTTGCCAATAATTTTGAAGTGGCTGGAGAAGT
GTCTTGCCCATGTAGAGGACGACTATATCCTTTTGTATTGTCAGGTCAGATTGAGTTGTACACTCACCT
GCCTGTGATGAAACAGCTGGTCCAGCAGCTCGAGCAGTGGGAGTTCCGAGTCTGTGGAGTTTCTTGT
GATTCTCAGTTCATGGTGGAGTCATTCAAGTTTATTTCTGGCATCTTGGCAGCCCTGAGTGCCATGATCT
CTCTAGAAATTCGCAAGTCAACATCATGACAAAAATGGATCTGCTGAGTAAAAAGCAAAAAGGAAAT
TGAGAAATTTTAGATCCAGACATGTATTCTTTATTAGAAGATTCTACAAGTGACTTAAGAAGCAAAAAA
TTCAAGAACTGACTAAAGCTATATGTGGACTGATTGATGACTACAGCATGGTTCGATTTTACCTTACG
ATCAGTCAGATGAAGAAAGCATGAACATTGCATTGCAGCATATTGATTTTGCCATTCAATATGGAGAAGA
CCTAGAATTTAAAGAACCAAGGACGTGAAGATGAGTCTTCTCTATGTTTGACGAATATTTTCAAGAA
TGCCAGGATGAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



Protein Sequence:

>RG203267 representing NM_016301

Red=Cloning site Green=Tags(s)

MPRYAQLVMGPAGSGKSTYCATMVQHCEALNRSVQVVNLDPAAEHFNYSVMADIRELIEVDDVMEEDSLR
FGPNGGLVFCMEYFANNFDWLENCLGHVEDDYILFDCPGQIELYTHLPVMKQLVQQLQWEFRVCGVFLV
DSQFMVESFKFISGILAAALSAMISLEIPQVNIMTKMDLLSKKAKKEIEKFLDPDMSLLEDSTDLRSKK
FKKLTKAICGLIDDYSMVRFLPYDQSDDESMNIALQHIDFAIQYGEDLEFKPKEREDESSMFDEYFQE
CQDE

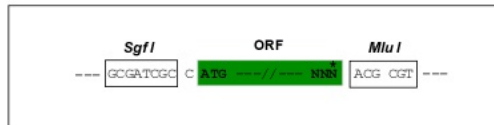
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



CTATAGGGCGCGCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCCGCCGATCGCCGGCGCCAGATCT

EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI

CAAGCTTAAGTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC ---

HindIII NheI RsrII MluI NotI XhoI GFP Tag

T R T R P L E M E S D - - -

--- GAA GAA AGA GTT TAA ACGGCCGCCGCGGAGCT

- - E E R V Stop

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: 1534 bp

RefSeq ORF: 855 bp

Locus ID: 51184

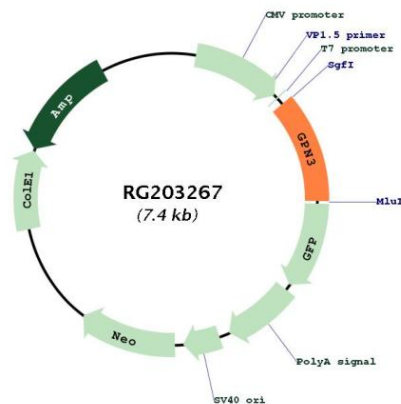
UniProt ID: [Q9UHW5](#)

Cytogenetics: 12q24.11

Domains: ATP-bind

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 RG203267