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Product datasheet for RC204268

GNPNAT1 (NM_198066) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GNPNAT1 (NM_198066) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GNPNAT1
Synonyms:	GNA1; GNPNAT; Gpnat1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC204268 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGAAACCTGATGAAACTCCTATGTTTGACCCAAGTCTACTCAAAGAAGTGGACTGGAGTCAGAATACAG
CTACATTTTCTCCAGCCATTTCCCCAACACATCCTGGAGAAGGCTTGGTTTTGAGGCCTCTTTGTACTGC
TGACTTAAATAGAGGTTTTTTTAAGGTATTGGGTCAGCTAACAGAGACTGGAGTTGTCAGCCCTGAACAA
TTTATGAAATCTTTTGAGCATATGAAGAAATCTGGGGATTATTATGTTACAGTTGTAGAAGATGTGACTC
TAGGACAGATTGTTGCTACGGCAACTCTGATTATAGAACATAAATTCATCCATTCCTGTGCTAAGAGAGG
AAGAGTAGAAGATGTTGTTGTTAGTGATGAATGCAGAGGAAAGCAGCTTGGCAAATTGTTATTATCAACC
CTTACTTTGCTAAGCAAGAAACTGAACTGTTACAAGATTACCCTTGAATGTCTACCACAAAATGTTGGTT
TCTATAAAAAGTTTGGATATACTGTATCTGAAGAAAACTACATGTGTCGGAGGTTTCTAAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC204268 protein sequence
Red=Cloning site Green=Tags(s)

MKPDETPMFDPSLLKEVDWSQNTATFSPAISPTHPGEGLVLRPLCTADLNRGFFKVLGQLTETGVVSPEQ
FMKSFEHMKKSGDYYVTVVEDVTLGQIVATATLIIEHKFIHSCAKRGRVEDVVVSDECRGKQLGKLLLST
LTLLSKKLNCYKITLECLPQNVGFYKKFGYTVSEENYMCRRFLK

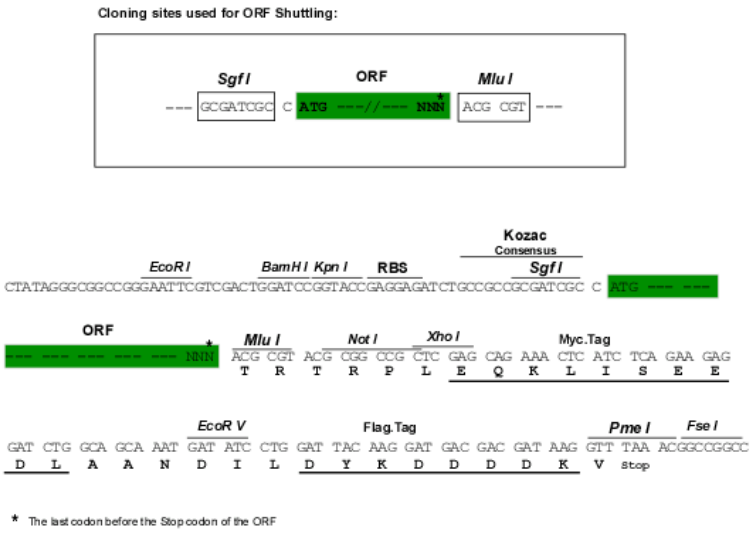
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6567_d08.zip

View online »

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_198066

ORF Size: 552 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.

RefSeq: NM_198066.4

RefSeq Size: 3945 bp

RefSeq ORF: 555 bp

Locus ID: 64841

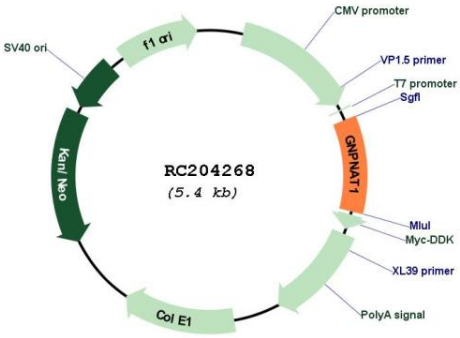
UniProt ID: Q96EK6

Cytogenetics: 14q22.1

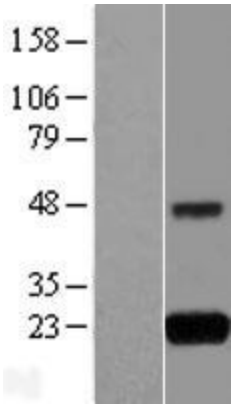
Protein Pathways: Amino sugar and nucleotide sugar metabolism

MW: 20.7 kDa

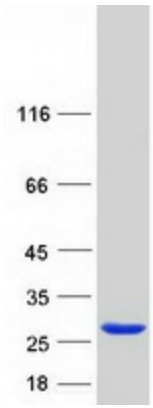
Product images:



Circular map for RC204268



Western blot validation of overexpression lysate (Cat# [LY405087]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204268 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified GNPNAT1 protein (Cat# [TP304268]). The protein was produced from HEK293T cells transfected with GNPNAT1 cDNA clone (Cat# RC204268) using MegaTran 2.0 (Cat# [TT210002]).