

Product datasheet for **RG204356**

NAPRT1 (NAPRT) (NM_145201) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	NAPRT1
Synonyms:	NAPRT1; PP3856
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG204356 representing NM_145201
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCGTTGGGCTATTGGCGCGCGGGCCGGGCGCGGGACGCCCGAGTTCGAGCTCTTCTCCGCCGCT
 GCGCGTTTCGGCGGCGCCTTCGCCTTGGCCGCCGCTTGCAGCTGTGTGCGCTTCTGCGCGCCTTCCG
 CCTGCGGGACGCCGACGTGACGTTCTGGCCTCGGTGCTGCCCCAGACACGGATCCTGCGTTCTTCGAG
 CACCTTCGGGCCCTCGACTGCTCCGAGGTGACGGTGCGAGCCCTGCCGAGGGCTCCCTCGCCTTCCCG
 GAGTGCCGCTCTCGAGGTGTCCGGGCCGCTCTGGTGGTGACGCTGCTGGAGACACCGCTGCTCTGCCT
 GGTCAGCTACGCCAGCCTGGTGGCCACCAACGACGCGCGCTTCGCTTGATCGCAGGGCCAGAGAAGCGG
 CTGCTAGAGATGGCCTGAGGCGGGCTCAGGGCCCCGATGGGGGCTGACAGCCTCCACCTACAGCTACC
 TGGGCGGCTTCGACAGCAGCAGCAACGTGCTAGCGGGCAGCTGCGAGGTGTGCCGGTGCCCGGACCT
 GGCCCACTCCTTCGTCACTTCTTTTTCAGGCAGCAGGTGCCCTGACCCGATGTTGGCGCCAGCAGCT
 GGTGAGGGCCTGGGGTGGACCTGGCGGCCAAAGCCAGGTGTGGCTGGAGCAGGTGTGTGCCACCTGG
 GGCTGGGGGTGACGAGCCGATCCAGGCAGCGGGCAGCCTTTGTGGCCTATGCCTTGGCTTTTCCCG
 GGCTTCCAGGGCCTCTGGACACCTACAGCGTGTGGAGGAGTGGTCTCCCACTTCTAGCAGTCGCC
 TTGGCCCTGGGAGAGCTGGGCTACCGGGCAGTGGGCTGAGGCTGGACAGTGGTACCTGCTACAGCAGG
 CTCAGGAGATCCGCAAGGTCTTCCGAGCTGCTGCAGCCAGTTCAGGTGCCCTGGCTGGAGTCAGTCCT
 CATCGTAGTCAGCAACAACATTGACGAGGAGGCGCTGGCCCGACTGGCCAGGAGGGCAGTGAAGTGAAT
 GTCAATTGGCATTGGCACCAGTGTGGTACCTGCCCCAACAGCCTTCCCTGGGTGGCGTCTATAAGCTGG
 TGGCCGTGGGGGCCAGCCACGAATGAAGCTGACCGAGGACCCGAGAAGCAGACGTTGCCCTGGGAGCAA
 GGCTGCTTTCCGGCTCCTGGGCTCTGACGGGTCTCCACTCATGGACATGCTGCAGTTAGCAGAAGAGCCA
 GTGCCACAGGCTGGGCAGGAGCTGAGGGTGTGGCCTCCAGGGGCCAGGAGCCCTGCACCGTGAGGCCAG
 CCCAGGTGGAGCCACTACTGCGGCTCTGCCTCCAGCAGGGACAGGTGGCTGCCCCACCGCCTCATCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG204356 representing NM_145201
 Red=Cloning site Green=Tags(s)

MALGYWRAGRARDAAEFELFFRRCPFGGAFALAAGLRDCVRFLRAFRLRDADVQFLASVLPDTPAFFE
 HLRALDCSEVTVRALPEGSLAFPGVPLLQVSGPLLVVQLLETPLLCLVSYASLVATNAARLRLIAGPEKR
 LLEMGLRRAQGPDGGLTASTYSYLGGFSSSNVLQGLRGVPVAGTLAHSFVTSFSGSEVPPDMLAPAA
 GEGPGVDLAAKAQVWLEQVCAHLGLGVQEPHPGERAAAFVAYALAFPRAFQGLLDITYSVWRSGLPNFLAVA
 LALGELGYRAVGVRDLSGDLQQAQEIIRKVFRAAAQFQVPWLESVLIVVSNIDEELARLAQEGSEVN
 VIGIGTSVVTCPQQPSLGGVYKLVAVGGQPRMKLTEDPEKQTLPGSKAAFRLLGSDGSPLMDMLQLAEEP
 VPQAGQELRVWPPGAQEPCTVRPAQVEPLLRLLCLQQGQVAAPPPSS

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_145201

ORF Size: 1398 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.

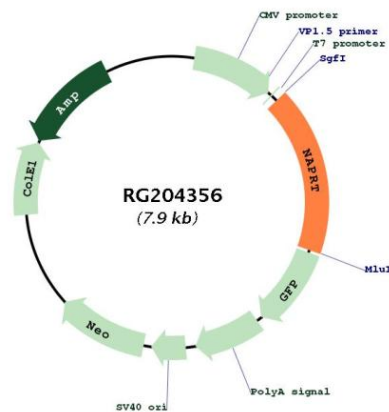
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_145201.3](#), [NP_660202.2](#)

RefSeq Size: 1875 bp
 RefSeq ORF: 1617 bp
 Locus ID: 93100
 UniProt ID: [Q6XQN6](#)
 Cytogenetics: 8q24.3

Gene Summary: Nicotinic acid (NA; niacin) is converted by nicotinic acid phosphoribosyltransferase (NAPRT; EC 2.4.2.11) to NA mononucleotide (NaMN), which is then converted to NA adenine dinucleotide (NaAD), and finally to nicotinamide adenine dinucleotide (NAD), which serves as a coenzyme in cellular redox reactions and is an essential component of a variety of processes in cellular metabolism including response to stress (Hara et al., 2007).[supplied by OMIM, Mar 2008]

Product images:



Circular map for RG204356