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Product datasheet for RC229275

NAPRT1 (NAPRT) (NM_145201) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NAPRT1 (NAPRT) (NM_145201) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NAPRT1
Synonyms:	NAPRT1; PP3856
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC229275 representing NM_145201
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCGGCGGAGCAGGACCCCGAGGCGCGCGCGGCGGCGCGGCCGCTGCTCACTGACCTCTACCAGGCCA
CCATGGCGTTGGGCTATTGGCGCGCGGGCCGGGCGCGGGACGCCGCCGAGTTCGAGCTCTTCTTCCGCCG
CTGCCCGTTCGGCGGCGCCTTCGCCTTGGCCGCCGGCTTGCGCGACTGTGTGCGCTTCCTGCGCGCCTTC
CGCCTGCGGGACGCCGACGTGCAGTTCCTGGCCTCGGTGCTGCCCCCAGACACGGATCCTGCGTTCTTCG
AGCACCTTCGGGCCCTCGACTGCTCCGAGGTGACGGTGCGAGCCCTGCCCGAGGGCTCCCTCGCCTTCCC
CGGAGTGCCGCTCCTGCAGGTGTCCGGGCCGCTCCTGGTGGTGCAGCTGCTGGAGACACCGCTGCTCTGC
CTGGTCAGCTACGCCAGCCTGGTGGCCACCAACGCAGCGCGGCTTCGCTTGATCGCAGGGCCAGAGAAGC
GGCTGCTAGAGATGGGCCTGAGGCGGGCTCAGGGCCCCGATGGGGGCCTGACAGCCTCCACCTACAGCTA
CCTGGGCGGCTTCGACAGCAGCAGCAACGTGCTAGCGGGCCAGCTGCGAGGTGTGCCGGTGGCCGGGACC
CTGGCCCACTCCTTCGTCACTTCCTTTTCAGGCAGCGAGGTGCCCCCTGACCCGATGTTGGCGCCAGCAG
CTGGTGAGGGCCCTGGGGTGGACCTGGCGGCCAAAGCCCAGGTGTGGCTGGAGCAGGTGTGTGCCCACCT
GGGGCTGGGGGTGCAGGAGCCGCATCCAGGCGAGCGGGCAGCCTTTGTGGCCTATGCCTTGGCTTTTCCC
CGGGCCTTCCAGGGCCTCCTGGACACCTACAGCGTGTGGAGGAGTGGTCTCCCCAACTTCCTAGCAGTCG
CCCTGGCCCTGGGAGAGCTGGGCTACCGGGCAGTGGGCGTGAGGCTGGACAGTGGTGACCTGCTACAGCA
GGCTCAGGAGATCCGCAAGGTCTTCCGAGCTGCTGCAGCCCAGTTCCAGGTGCCCTGGCTGGAGTCAGTC
CTCATCGTAGTCAGCAACAACATTGACGAGGAGGCGCTGGCCCGACTGGCCCAGGAGGGCAGTGAGGTGA
ATGTCATTGGCATTGGCACCAGTGTGGTCACCTGCCCCCAACAGCCTTCCCTGGGTGGCGTCTATAAGCT
GGTGGCCGTGGGGGGCCAGCCACGAATGAAGCTGACCGAGGACCCCGAGAAGCAGACGTTGCCTGGGAGC
AAGGCTGCTTTCCGGCTCCTGGGCTCTGACGGGTCTCCACTCATGGACATGCTGCAGTTAGCAGAAGAGC
CAGTGCCACAGGCTGGGCAGGAGCTGAGGGTGTGGCCTCCAGGGGCCCAGGAGCCCTGCACCGTGAGGCC
AGCCCAGGTGGAGCCACTACTGCGGCTCTGCCTCCAGCAGGGACAGCTGTGTGAGCCGCTCCCATCCCTG
GCAGAGTCTAGAGCCTTGGCCCAGCTGTCCCTGAGCCGACTCAGCCCTGAGCACAGGCGGCTGCGGAGCC
CTGCACAGTACCAGGTGGTGCTGTCCGAGAGGCTGCAGGCCCTGGTGAACAGTCTGTGTGCGGGGCAGTC
CCCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC229275 representing NM_145201
Red=Cloning site Green=Tags(s)

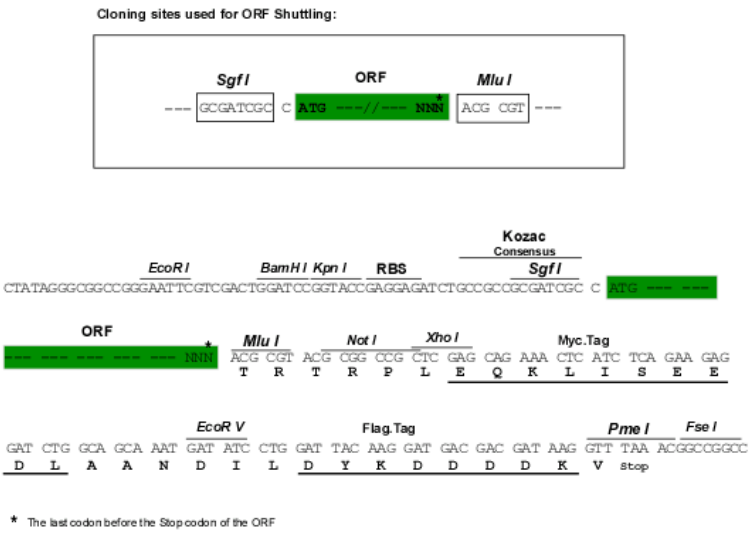
MAAEQDPEARAAARPLLTDLYQATMALGYWRAGRARDAAEFELFFRRCPFGGAFALAAGLRDCVRFLRAF
RLRDADVQFLASVLPPDTDPAFFEHLRALDCSEVTVRALPEGSLAFPGVPLLQVSGPLLVVQLLETPLLC
LVSYASLVATNAARLRLIAGPEKRLLEMGLRRAQGPDGGLTASTYSYLGGFDSSSNVLAGQLRGVPVAGT
LAHSFVTSFSGSEVPPDPMLAPAAGEGPGVDLAAKAQVWLEQVCAHLGLGVQEPHPGERAAFVAYALAFP
RAFQGLLDTYSVWRSGLPNFLAVALALGELGYRAVGVRLDSGDLLQQAQEIRKVFRAAAAQFQVPWLESV
LIVVSNNIDEEALARLAQEGSEVNVIGIGTSVVTCPQQPSLGGVYKLVAVGGQPRMKLTEDPEKQTLPGS
KAAFRLLGSDGSPLMDMLQLAEEPVPQAGQELRVWPPGAQEPCTVRPAQVEPLLRLCLQQGQLCEPLPSL
AESRALAQLSLSRLSPEHRRLRSPAQYQVVLSERLQALVNSLCAGQSP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8066_b11.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_145201

ORF Size: 1614 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

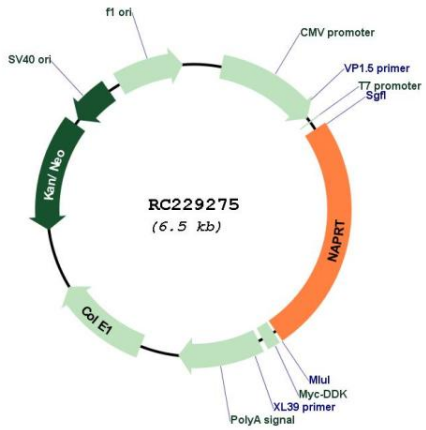
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_145201.6

RefSeq ORF:	1617 bp
Locus ID:	93100
UniProt ID:	Q6XQN6
Cytogenetics:	8q24.3
MW:	57.4 kDa
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 RC229275