

Product datasheet for SC108450

NNT (NM_012343) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NNT (NM_012343) Human Untagged Clone
Tag:	Tag Free
Symbol:	NNT
Synonyms:	GCCD4
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC108450 sequence for NM_012343 edited (data generated by NextGen Sequencing)

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ATGGCAAACCTATTGAAAACAGTGGTACTGGCTGCTCGTGTCTACTTAGCAATTTG
GGTCTGTAAAGGTCTACGTGTGAAGAAGGATTTTTACGAACATTTTATACTACCAA
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AACTTGGTCAAGCAGGGTTTTAATGTTGTCTGGAATCGGGTGCGGGCGAAGCTCCAAG
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GCTTCTGATTTGGTGGTCAAAGTGCAGCCCTATGGTTAATCCAACATTAGGTGTTTAT
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ATGGTGACCACTTTTGGCTTGGCTGGCATTGTGGGGTATCATACCGTCTGGGGAGTGACC
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 AACTCTATTATTGCAGGCATGCCAGTCTTGGAGTCTGGAAATCAAAGCAGGTGATTGTT
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 AACACGGCCATGCTTCTAGGTGATGCCAAGAAAACATGTGACGCGCTCCAGGCGAAAGTT
 AGAGAATCCTATCAGAAGTAA

Clone variation with respect to NM_012343.3
 1304 t=>w

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_012343 unedited
 GGTTTTAGGATTTGTNATCCGACTTCATATAGGGCGGCCGCAATTCGCACGAGGGGCA
 CAGCCCAGGCTGTCAGCCTCCCGGCCAGTGATTTGCCTTCAAGGAAACTGGGGAGTCAG
 AAAATTGGGAACATATCAACATGGCAAACCTATTGAAAACAGTGGTGACTGGCTGCTC
 GTGTCCTTACTTAGCAATTTGGGTCCTGTAAGGGTCTACGTGTGAAGAAGGATTTTTT
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 TTTTTTACTGGTCAGATCACAGCTGCTGGGAAAGTCTCCAGCTAAGATCTGAAGTTG
 GTGGTGGGTGTTGCTGGGCTTCTGTCAGCGCAGCANATCAGGGTGCATTTGTCAG
 GATTGACACAGACTGCAGCTTGGAACAGTTC

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_012343 unedited CCTTCGTTCTATTTCCCCACCTTCCACACCAGGNTTGTGTGNANGAAAACCGCAATCCG AGGCCNNGGTTTTTTCCTTTTTTTTTTTTTTGGCAACTGTTTTACTCTTTTATAGCCAAAG TTGAATTCCACTCAAGTGCACCTAATATAGTACTACACATTATAAGTTGATCGAAATTA AGAGATCTCCAATTAGAAATGGGATCTTCAAAAATACTATTACTAATTTTCAAGCTGGAT GTTTCATTTTTTTCTAATGAAACATATAAAGCAAATGATTTGTCCAGCCTCTCTGAA AGATTATTTAGCCCTTTAATGTATTAATAAGTAGTAGGAGAAAATGTGCCCTTGAAATATA GACTTTGAAGTACAATTTAAAAAATTAATACTGACTTGATATGATTAATTCAAACTGCGG TTGAATTGCAAGGGGACAGCTCATAAGCTCATAAAAGGTTCAAATTAGCCACATTTGTTG AAAAAAAAAACATAAAATGCAGGTGCCTGCAATGGTTACATTGTGTGAGATATTTTCAGAA GCATGTATAACGCTTGCCTTGAATCCTAAACACTTACCTTTTTTAAACATTTTTTGGCT ACTGAGGAGGTATCAAAAATTCACAGGACTACCTCTAACATGACGGCTGTTCTTTCTCC CTTTATTCACACCTTTTGACTTCTACACAAAAAATATGGCCTAGAAAGACATTTAG AATCTTTCCATTCTTTTTAAAAATTGAGGGATTACCGTATTTTAAAAATTTTTTCTAT ACCGCTCTTTGCCTTTGCTTTTTTCCACCCTTTATTTCTCCACAAGTTCTCTTTCCCA ATGGTCATTCCCCTTGTTTACGGGACCTCTCTCGCGTTGTTCCCAAACATTGCAAGGTG GGTCTCTTAACCTAACGCTGGGTCTCTATAATAATCCCGGGAGGAATTTGTTAATCCC CGCCCCGAAAGGGTAAAAAT
Restriction Sites:	NotI-NotI
ACCN:	NM_012343
Insert Size:	4620 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none"> 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_012343.2 , NP_036475.2
RefSeq Size:	4600 bp
RefSeq ORF:	3261 bp
Locus ID:	23530
UniProt ID:	Q13423
Cytogenetics:	5p12
Domains:	PNTB, AlaDh_PNT_C, AlaDh_PNT_N

Protein Families: Transmembrane

Protein Pathways: Metabolic pathways, Nicotinate and nicotinamide metabolism

Gene Summary: This gene encodes an integral protein of the inner mitochondrial membrane. The enzyme couples hydride transfer between NAD(H) and NADP(+) to proton translocation across the inner mitochondrial membrane. Under most physiological conditions, the enzyme uses energy from the mitochondrial proton gradient to produce high concentrations of NADPH. The resulting NADPH is used for biosynthesis and in free radical detoxification. [provided by RefSeq, Sep 2016]
Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (1). Variants 1 and 2 encode the same isoform.