

Product datasheet for SC326916

NAT1 (NM_001160175) Human Untagged Clone

Product data:

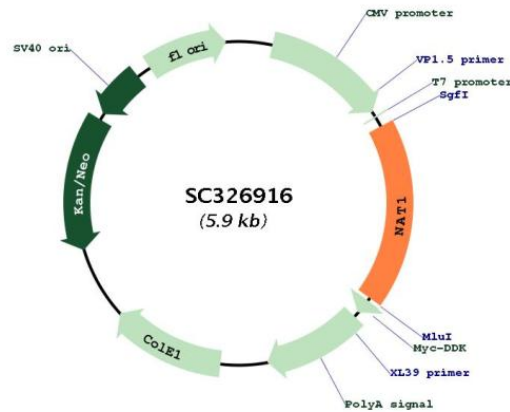
Product Type:	Expression Plasmids
Product Name:	NAT1 (NM_001160175) Human Untagged Clone
Tag:	Tag Free
Symbol:	NAT1
Synonyms:	AAC1; MNAT; NAT-1; NATI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC326916 representing NM_001160175. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGCTGTATTACTCTTACACAAGGAGGCGCCCTCGAGCCACAGGGTCCAGCTGTTGGCTATAATAGC
CTACCGGTCTCTGATGATCACCATGTTTCTGGAATTCAGCCAGGAAGAAGCAGCAATCTGTCTTCTGG
ATTTAAACTGAAGATCAACCTACTTTCACTTACTAAGAAAGGGGATCATGGACATTGAAGCATATCTT
GAAAGAATTGGCTATAAGAAGTCTAGGAACAAATTGGACTTGGAAACATTAAGTACATTCTTCAACAC
CAGATCCGAGCTGTTCCCTTTGAGAACCTAACATCCATTGTGGGGATGCCATGGACTTAGGCTTAGAG
GCCATTTTGTCAAGTTGTGAGAAGAAATCGGGGTGGATGGTGTCTCCAGGTCAATCATCTTCTGTAC
TGGGCTCTGACCACTATTGGTTTTGAGACCACGATGTTGGGAGGGTATGTTTACAGCACTCCAGCCAAA
AAATACAGCACTGGCATGATTCACCTTCTCCTGCAGGTGACCATTGATGGCAGGAACATACATTGTGAT
GCTGGGTTTGGACGCTCATACCAGATGTGGCAGCCTCTGGAGTTAATTTCTGGGAAGGATCAGCCTCAG
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TACATTCAAAATGAAGAATTTCTTACTTCTGATCTCCTAGAAGACAGCAAATACCGAAAAATCTACTCC
TTACTCTTAAGCCTCGAACAATTGAAGATTTGAGTCTATGAATACATACCTGCAGACATCTCCATCA
TCTGTGTTACTAGTAAATCATTTTGTCTTGCAGACCCAGATGGGGTTCAGTGTGGTGGGCTTC
ACCCTCACCCATAGGAGATTCAATTATAAGGACAATACAGATCTAATAGAGTTCAAGACTCTGAGTGAG
GAAGAAATAGAAAAGTGTCTGAAAAATATATTTAATATTTCTTGCAGAGAAAGCTTGTGCCCAAACAT
GGTGATAGATTTTTACTATTAG
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:


ACCN: NM_001160175

Insert Size: 1059 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001160175.3](#)

RefSeq Size: 2089 bp

RefSeq ORF: 1059 bp

Locus ID: 9

Cytogenetics:	8p22
Protein Pathways:	Caffeine metabolism, Drug metabolism - other enzymes, Metabolic pathways
MW:	40.8 kDa
Gene Summary:	<p>This gene is one of two arylamine N-acetyltransferase (NAT) genes in the human genome, and is orthologous to the mouse and rat Nat2 genes. The enzyme encoded by this gene catalyzes the transfer of an acetyl group from acetyl-CoA to various arylamine and hydrazine substrates. This enzyme helps metabolize drugs and other xenobiotics, and functions in folate catabolism. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2011]</p> <p>Transcript Variant: This variant (7) lacks an alternate 5' non-coding exon and includes an additional exon resulting in translation from an alternate start codon, compared to variant 1. The resulting isoform (b) has a longer N-terminus, compared to isoform a. Variants 7, 8 and 10 all encode isoform b. This variant is transcribed from a promoter known as P1, promoter 2, or NATb promoter.</p>