

## Product datasheet for **SC326917**

### **NAT1 (NM\_001160176) Human Untagged Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NAT1 (NM_001160176) Human Untagged Clone
Tag:	Tag Free
Symbol:	NAT1
Synonyms:	AAC1; MNAT; NAT-1; NATI
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	<p>&gt;NCBI ORF sequence for NM_001160176, the custom clone sequence may differ by one or more nucleotides</p> <pre> ATGCTGTTATTACTCTTACACAAGGAGGCAGCCCTCGAGCCACAGGGTCCAGCTGTTGGC TATAATAGCCTACCGGTCTCTGATGATCACCATGTTTCTGGAATTCAGCCAGGAAGAAG CAGCAATCTGTCTTCTGGATTAAACTGAAGATCAACCTACTTTCAACTACTAAGAAAG GGGATCATGGACATTGAAGCATATCTTGAAAGAATTGGCTATAAGAAGTCTAGGAACAAA TTGGACTTGGAACATTAAGTACATTCTTCAACACCAGATCCGAGCTGTTCCCTTTGAG AACCTTAACATCCATTGTGGGGATGCCATGGACTTAGGCTTAGAGGCCATTTTGTATCAA GTTGTGAGAAGAAATCGGGGTGGATGGTGTCTCCAGGTCAATCATCTTCTGTACTGGCT CTGACCACTATTGTTTTGAGACCACGATGTTGGGAGGGTATGTTTACAGCACTCCAGCC AAAAAATACAGCACTGGCATGATTCACCTTCTCCTGCAGGTGACCATTGATGGCAGGAAC TACATTGTCGATGCTGGGTTTGGACGCTCATACCAGATGTGGCAGCCTCTGGAGTTAATT TCTGGGAAGGATCAGCCTCAGGTGCCTTGTGTCTTCCGTTTGACGGAAGAGAATGGATTC TGGTATCTAGACCAAAATCAGAAGGGAACAGTACATTCCAAATGAAGAATTTCTTCATTCT GATCTCCTAGAAGACAGCAAATACCGAAAAATCTACTCCTTTACTCTTAAGCCTCGAACA ATTGAAGATTTTGAGTCTATGAATACATACCTGCAGACATCTCCATCATCTGTGTTTACT AGTAAATCATTTTGTTCCTTGCAGACCCAGATGGGGTTCACTGTTTGGTGGGCTTCACC CTCACCCATAGGAGATTCAATTATAAGGACAATACAGATCTAATAGAGTTCAAGACTCTG AGTGAGGAAGAAATAGAAAAAGTCTGAAAAATATATTTAATATTCTTGCAGAGAAAAG CTTGTGCCCAAACATGGTGATAGATTTTTTACTATT </pre>
Restriction Sites:	Please inquire
ACCN:	NM_001160176


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<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u>NM_001160176.1, NP_001153648.1</u>
<b>RefSeq Size:</b>	1933 bp
<b>RefSeq ORF:</b>	1059 bp
<b>Locus ID:</b>	9
<b>Cytogenetics:</b>	8p22
<b>Protein Pathways:</b>	Caffeine metabolism, Drug metabolism - other enzymes, Metabolic pathways
<b>Gene Summary:</b>	<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 (8, also known as Type IIB) lacks two alternate 5' non-coding exons 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>