

Product datasheet for **SC335551**

NAT1 (NM_001291962) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | NAT1 (NM_001291962) Human Untagged Clone |
| Tag: | Tag Free |
| Symbol: | NAT1 |
| Synonyms: | AAC1; MNAT; NAT-1; NATI |
| Vector: | pCMV6-Entry (PS100001) |
| Fully Sequenced ORF: | >SC335551 representing NM_001291962. Blue=Insert sequence Red=Cloning site Green=Tag(s) |

ATGCTGTTACTTACTCTTACACAAGGAGGCAGCCCTCGAGCCACAGGGTCCAGCTGTTGGCTATAATAGC
 CTACCGGTCTCTGATGATCACCATGTTTCTGGAATTCAAGCCAGGAAGAAGCAGCAATCTGTCTTCTGG
 ATTAAGAACTGAAGATCAACCTACTTTCACTTACTAAGAAAGGGGATCATGGACATTGAAGCATATCTT
 GAAAGAATTGGCTATAAGAAGTCTAGGAACAAATTGGACTTGGAAACATTAAGTACATTCTTCAACAC
 CAGATCCGAGCTGTTCCCTTTGAGAACCCTAACATCCATTGTGGGGATGCCATGGACTTAGGCTTAGAG
 GCCATTTTGTCAAGTTGTGAGAAGAAATCGGGGTGGATGGTGTCTCCAGGTCAATCATCTTCTGTAC
 TGGGCTCTGACCACTATTGGTTTTGAGACCACGATGTTGGGAGGGTATGTTTACAGCACTCCAGCCAAA
 AAATACAGCACTGGCATGATTACCTTCTCCTGCAGGTGACCATTGATGGCAGGAACATACATTGTCGAT
 GCTGGGTTTGGACGCTCATACCAGATGTGGCAGCCTCTGGAGTTAATTTCTGGGAAGGATCAGCCTCAG
 GTGCCTTGTGTCTTCCGTTTGACGGAAGAGAATGGATTCTGGTATCTAGACCAAAATCAGAAGGGAACAG
 TACATTCCAAATGAAGAATTTCTTCATTCTGATCTCCTAGAAGACAGCAAATACCGAAAAATCTACTCC
 TTTACTCTTAAGCCTCGAACAATTGAAGATTTTGTCTTGCAGACCCAGATGGGGTTCAGTGTGTTGGTGGGCTTC
 ACCCTCACCCATAGGAGATTCAATTATAAGGACAATACAGATCTAATAGAGTTCAAGACTCTGAGTGAG
 GAAGAAATAGAAAAAGTCTGAAAAATATATTTAATATTTCTTGCAGAGAAAGCTTGTGCCAAACAT
 GGTGATAGATTTTACTATTAG

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| Restriction Sites: | SgfI-MluI |
| ACCN: | NM_001291962 |
| 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). |


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| 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: | <u>NM_001291962.1</u> |
| RefSeq Size: | 2143 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 (10, also known as Type 1B) contains alternate 5' exon structure and it thus differs in the 5' UTR and initiates translation from an alternate start codon, compared to variant 1. The resulting isoform (b) has a longer N-terminus, compared to isoform a. This variant is transcribed from a promoter known as P1, promoter 2, or NATb promoter. Variants 7, 8 and 10 all encode isoform b. This variant is transcribed from an alternate promoter known as the NATa or P3 promoter. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p> |