

Product datasheet for RC228282L3

OriGene Technologies, Inc.

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NAT1 (NM_001160176) Human Tagged Lenti ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: NAT1 (NM_001160176) Human Tagged Lenti ORF Clone

Tag: Myc-DDK

Symbol: NAT1

Synonyms: AAC1; MNAT; NAT-1; NATI

Mammalian Cell Puromycin

Selection:

Vector: pLenti-C-Myc-DDK-P2A-Puro (PS100092)

E. coli Selection: Chloramphenicol (34 ug/mL)

ORF Nucleotide The ORF insert of this clo

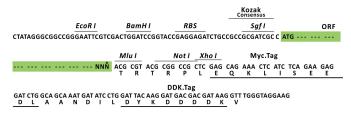
Sequence:

The ORF insert of this clone is exactly the same as(RC228282).

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF.

ACCN: NM_001160176

ORF Size: 1056 bp





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OTI Disclaimer: 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: <u>NM 001160176.1</u>

RefSeq Size: 1939 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: 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]