

## Product datasheet for RC209360L4

### NAT2 (NM\_000015) Human Tagged Lenti ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	NAT2 (NM_000015) Human Tagged Lenti ORF Clone
Tag:	mGFP
Symbol:	NAT2
Synonyms:	AAC2; NAT-2; PNAT
Mammalian Cell Selection:	Puromycin
Vector:	pLenti-C-mGFP-P2A-Puro (PS100093)
E. coli Selection:	Chloramphenicol (34 ug/mL)
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC209360).
Restriction Sites:	SgfI-MluI
Cloning Scheme:	

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF.

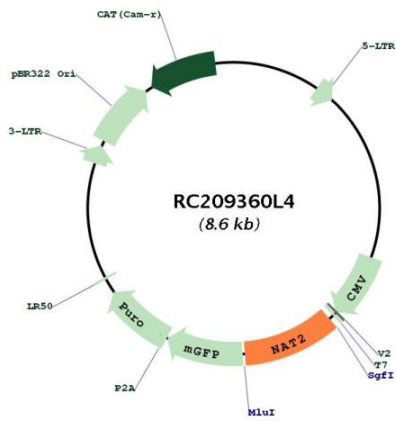
ACCN:	NM_000015
ORF Size:	870 bp



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<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_000015.2</a>
<b>RefSeq Size:</b>	1317 bp
<b>RefSeq ORF:</b>	873 bp
<b>Locus ID:</b>	10
<b>UniProt ID:</b>	<a href="#">P11245</a>
<b>Cytogenetics:</b>	8p22
<b>Domains:</b>	Acetyltransf2
<b>Protein Families:</b>	Transmembrane
<b>Protein Pathways:</b>	Caffeine metabolism, Drug metabolism - other enzymes, Metabolic pathways
<b>MW:</b>	33.5 kDa
<b>Gene Summary:</b>	This gene encodes an enzyme that functions to both activate and deactivate arylamine and hydrazine drugs and carcinogens. Polymorphisms in this gene are responsible for the N-acetylation polymorphism in which human populations segregate into rapid, intermediate, and slow acetylator phenotypes. Polymorphisms in this gene are also associated with higher incidences of cancer and drug toxicity. A second polymorphic arylamine N-acetyltransferase gene (NAT1), is located near this gene (NAT2). [provided by RefSeq, Sep 2019]

Product images:



Circular map for RC209360L4