

## Product datasheet for RG204825

## NMNAT1 (NM\_022787) Human Tagged ORF Clone

### **Product data:**

#### OriGene Technologies, Inc.

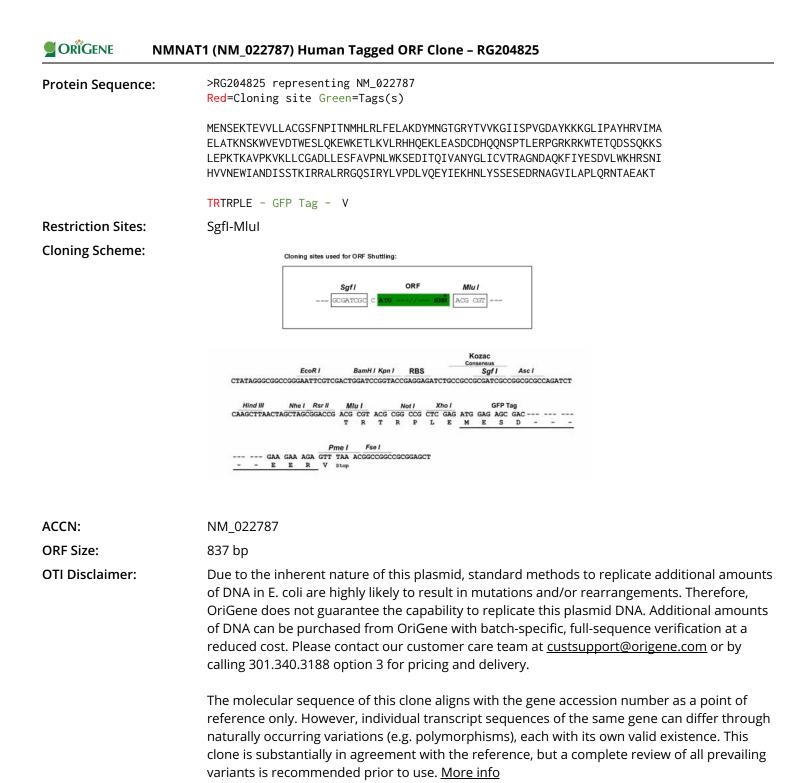
9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

Product Type:	Expression Plasmids
Product Name:	NMNAT1 (NM_022787) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NMNAT1
Synonyms:	LCA9; NMNAT; PNAT1; SHILCA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	<pre>&gt;RG204825 representing NM_022787 Red=Cloning site Blue=ORF Green=Tags(s)</pre>
	TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC GCC <mark>GCGATCGC</mark> C

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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# **OTI Annotation:** This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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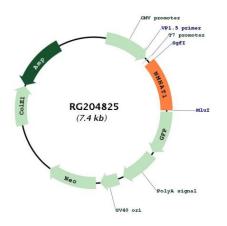
<b>ORIGENE</b> NMNAT1 (NM_022787) Human Tagged ORF Clone – RG204825	
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Metho	<ol> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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>
RefSeq:	<u>NM 022787.4</u>
RefSeq Size:	1825 bp
RefSeq ORF:	840 bp
Locus ID:	64802
UniProt ID:	<u>Q9HAN9</u>
Cytogenetics:	1p36.22
Domains:	CTP_transf_2
Protein Pathways:	Metabolic pathways, Nicotinate and nicotinamide metabolism
Gene Summary:	This gene encodes an enzyme which catalyzes a key step in the biosynthesis of nicotinamide adenine dinucleotide (NAD). The encoded enzyme is one of several nicotinamide nucleotide adenylyltransferases, and is specifically localized to the cell nucleus. Activity of this protein leads to the activation of a nuclear deacetylase that functions in the protection of damaged neurons. Mutations in this gene have been associated with Leber congenital amaurosis 9. Alternative splicing results in multiple transcript variants. Pseudogenes of this gene are

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located on chromosomes 1, 3, 4, 14, and 15. [provided by RefSeq, Jul 2014]

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## **Product images:**



Circular map for RG204825

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