

Product datasheet for **RN216283**

Nat8l (NM_001191681) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nat8l (NM_001191681) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Nat8l
Synonyms:	RGD1305719
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN216283 representing NM_001191681 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCATTGTGGCCTCCCGACATGGTCTGCGAGACGAAGATCGTGGCTACGGAGGACCATGAGGCACTGC
CGGGGGCCAAGAAGGACGCGTCTCGCCGCCCGGAGCCATGTGGCCCCGCTGCCCGCCGCGCCCG
GCCGGTCCCGCACCCCCACCCGCGCAGGTCCCAGCCCCACGGAGGCACCGGGGGCGGGGGCCCGCC
GAGGGGCGCGCGTGTGCATCCGCGAGTCCGCGCAGCCGAGCAGGAGGGCGCGCCGCATCTTCTACG
ACGGCATCTTGGAGCGCATCCCCAACACGGCTTCCGAGGCTGCGGCAGCACCCGCGCACCCAGCTGCT
CTACGCCCTGCTGGCGGCCCTCTGTTTTGCTGTGACCCGCTCACTGCTGCTGACATGCCTGGTGCCGGCC
GGGCTCCTGGCCCTGCGCTACTACTACAGTCGCAAGGTGATTCTGGCCTACCTGGAGTGTGCGCTGCACA
CGGACATGGCTGACATTGAACAGTACTACATGAAGCCACCTGGTTCCTGTTTCTGGGTGGCTGTGCTGGA
CGGCAATGTTGTGGGCATCGTGGCGGCTCGGGCCATGAGGAAGACAACACAGTGGAGCTGCTCCGCATG
TCCGTGGACTCGCGCTTCCGCGGCAAAGGCATCGCAAGGCCCTGGGCAGGAGGGTGTGGAGTTTGCCA
TGCTGCACAACACTCTGCAGTGGTACTGGGCACCACAGCCGTTAAGGTGGCCGCCACAAGCTCTATGA
GTCAGTGGGCTTCAGACACATGGGCGGAGTGATCACTACGTGCTGCCTGGCATGACCTCTCGTGGCC
GAGCGCCTCTTCTCCAGGTCCGCTACCACCGTACCCTGCAGCTGCGCGAGGAG**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001191681
Insert Size:	900 bp



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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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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_001191681.1</u> , <u>NP_001178610.1</u>
RefSeq Size:	3279 bp
RefSeq ORF:	900 bp
Locus ID:	289727
UniProt ID:	<u>D3ZVU9</u>
Cytogenetics:	14q21
Gene Summary:	Plays a role in the regulation of lipogenesis by producing N-acetylaspartate acid (NAA), a brain-specific metabolite. NAA occurs in high concentration in brain and its hydrolysis plays a significant part in the maintenance of intact white matter. Promotes dopamine uptake by regulating TNF-alpha expression. Attenuates methamphetamine-induced inhibition of dopamine uptake (By similarity).[UniProtKB/Swiss-Prot Function]