

## 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  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN216283 representing NM\_001191681  
**Red**=Cloning site **Blue**=ORF **Orange**=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGCATTGTGGGCTCCCGACATGGTCTGCGAGACGAAGATCGTGGCTACGGAGGACCATGAGGCACTGC  
CGGGGGCCAAGAAGGACGCGTCTCGCCGCCCGGAGCCATGTGGCCCCGCTGCCCGCCGCGCCCG  
GCCGGTCCCGCACCCCCACCCGCGCAGTCCCGAGCCACCGAGGCACCGGGGGCGCGGGGCCCGCC  
GAGGGGCGCGCGTGTGCATCCGCGAGTCCCGCGCAGCCGAGCAGGAGGCGCGCCGATCTTCTACG  
ACGGCATCTTGGAGCGCATCCCCAACACGGCTTCCGAGGCTGCGGCAGCACCCGCGCACCCAGCTGCT  
CTACGCCCTGCTGGCGGCCCTCTGTTTTGCTGTGACCCGCTCACTGCTGCTGACATGCCTGGTGCAGCC  
GGGCTCCTGGCCCTGCGCTACTACTACAGTCGCAAGGTGATTCTGGCCTACCTGGAGTGTGCGCTGCACA  
CGGACATGGCTGACATTGAACAGTACTACATGAAGCCACCTGGTTCCTGTTTCTGGGTGGCTGTGCTGGA  
CGGCAATGTTGTGGGCATCGTGGCGGCTCGGGCCATGAGGAAGACAACACAGTGGAGTGTCCGCATG  
TCCGTGGACTCGCGTTCGCGGCAAAGGCATCGCCAAGGCCCTGGCAGGAGGGTGTGGAGTTTGCCA  
TGCTGCACAACACTCTGCAGTGGTACTGGCACACAGCCGTTAAGGTGGCCGCCACAAGCTATGA  
GTCACTGGGCTTCAGACACATGGGCGCGAGTGATCACTACGTGCTGCCTGGCATGACCTCTCGCTGGCC  
GAGCGCTCTTCTCCAGGTCCGCTACCACCGCTACCGCCTGCAGCTGCGCGAGGAG**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001191681  
**Insert Size:** 900 bp



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<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<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>	<u><a href="#">NM_001191681.1</a></u> , <u><a href="#">NP_001178610.1</a></u>
<b>RefSeq Size:</b>	3279 bp
<b>RefSeq ORF:</b>	900 bp
<b>Locus ID:</b>	289727
<b>UniProt ID:</b>	<u><a href="#">D3ZVU9</a></u>
<b>Cytogenetics:</b>	14q21
<b>Gene Summary:</b>	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]