

Product datasheet for **MC214291**

Nat8l (NM_001001985) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nat8l (NM_001001985) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nat8l
Synonyms:	1110038O08Rik; Shati
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC214291 representing NM_001001985. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCATTGTGGCCTCCCGACATGGTCTGCGAGACGAAGATCGTGGCTACGGAGGACCATGAGGCACTG
CCGGGGGCAAGAAGGACGCGCTGCTCGTCGCGCCGGAGCCATGTGGCCCCGCTGCCCGCCGCC
GGGCCGGCCGCCACCCCCACCCGCGGAGGTCCCCAGCCCCACGGAGGCACCGGGGGCGGGGGCCG
CCGGAGGGGCGCGCGTGTGCATCCGCGAGTCCGCGCAGCCGAGCAGGAGGCGCGCCGCATCTTC
TAGCAGCGCATCTTGAGCGCATCCCCAACACGGCTTCCGCGCCTGCGGCAGCACCCGCGCACCCAA
CTGCTCTACGCCCTGCTGGCCGCTCTGTTTTGCTGTGACCCGCTCACTGCTGACATGCCTGGTG
CCGGCCGGGCTCCTGGCCCTGCGCTACTACTACAGCCGCAAGGTATTCTGGCCTACCTGGAGTGTGCG
CTGCACACGGACATGGCTGACATTGAGCAGTACTACATGAAGCCACCTGGTTCCTGTTTCTGGGTGGCT
GTGCTGGACGGCAACGTTGTGGGCATCGTGGCCGACGGGCCATGAGGAGGACAACACAGTGGAGCTG
CTCCGATGTCCGTGGACTCGCGTTTCCGCGGAAAAGGCATCGCCAAGGCTCTGGCAGGAGGGTGTG
GAGTTTGCATGCTGCACAACTACTCTGCAGTGGTACTGGGCACCACAGCCGTTAAGGTGGCCGCCAC
AAGCTCTATGAGTCACTGGGCTTCAGACACATGGGCGGAGTGATCACTACGTGCTGCCTGGCATGACC
CTCTCGCTGGCCGAGCGCCTCTTCTCCAGGTCCGCTACCACCGCTACCGCTGCAGTGCAGCGAGGAG
TGA
ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Chromatograms:	https://cdn.origene.com/chromatograms/ja1349_d11.zip
Restriction Sites:	SgfI-MluI
ACCN:	NM_001001985



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Insert Size:	900 bp
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).
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_001001985.3</u>
RefSeq Size:	6529 bp
RefSeq ORF:	900 bp
Locus ID:	269642
UniProt ID:	<u>Q3UGX3</u>
Cytogenetics:	5 B2
MW:	32.7 kDa
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.[UniProtKB/Swiss-Prot Function]