

Product datasheet for **MG221053**

Nat8l (NM_001001985) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nat8l (NM_001001985) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Nat8l
Synonyms: 1110038O08Rik; Shati
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG221053 representing NM_001001985
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCATTGTGGGCTCCCGACATGGTCTGCGAGACGAAGATCGTGGCTACGGAGGACCATGAGGCACTGC
 CGGGGGCCAAGAAGGACGCGTCTCGTCGCCCGGAGCCATGTGGCCCCGCTGCCCGCCGCGCCCG
 GCCGGCCCGCACCCCCACCCGCGCAGGTCCCCAGCCCCACGGAGGCACCGGGGGCGCGGGGCCCGC
 GAGGGGCGCGCGTGTGCATCCGCGAGTCCGCGCAGCCGAGCAGGAGGGCGCGCCGCATCTTCTACG
 ACGGCATCTTGGAGCGCATCCCCAACACGGCTTCCGCGCCTGCGGCAGCACCCGCGCACCCAAGTCT
 CTACGCCCTGCTGGCCGCCCTCTGTTTTGCTGTGACCCGCTCACTGCTGCTGACATGCCTGGTGCCGGCC
 GGGCTCCTGGCCCTGCGCTACTACTACAGCCGCAAGGTGATTCTGGCCTACCTGGAGTGTGCGCTGCACA
 CGGACATGGCTGACATTGAGCAGTACTACATGAAGCCACCTGGTTCCTGTTTCTGGGTGGCTGTGCTGGA
 CGGCAACGTTGTGGGCATCGTGGCCGCACGGGCCCATGAGGAGGACAACACAGTGGAGCTGCTCCGCATG
 TCCGTGGACTCGCGTTCGCGGAAAAGGCATCGCCAAGGCTCTGGGCAGGAGGGTGTGGAGTTTGCCA
 TGCTGCACAACACTCTGCAGTGGTACTGGGCACCACAGCCGTTAAGGTGGCCGCCACAAGCTCTATGA
 GTCAGTGGGCTTCAGACACATGGGCGCAGTGATCACTACGTGCTGCCTGGCATGACCTCTCGTGGCC
 GAGCGCCTCTTCCAGGTCCGCTACCACCGTACCCTGCAGCTGCGCGAGGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG221053 representing NM_001001985
 Red=Cloning site Green=Tags(s)

MHCGPPDMVCETKIVATEDHEALPGAKKDALLVAAGAMWPPLPAAPGPAAPPPAAGPQPHGGTGGAGPP
 EGRGVCIREFRAAEQEAARRIFYDGLERIPNTAFRGLRQHPRTQLLYALLAALCFAVTRSLLLTCCLVPA
 GLLALRYYYSRKVIILAYLECALHTDMADIEQYYMKPPGSCFWAVLDGNVVGIVAARAHEEDNTVELLRM
 SVDSRFRGKGIKALGRRVLEFAMLHNYSVVLTAVKVAHKLYESLGFHRMGASDHYVLPGMTLSLA
 ERLFFQVRYHRYRLQLREE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001001985

ORF Size: 897 bp

OTI Disclaimer: 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. [More info](#)

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

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:

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: [NM_001001985.3](#), [NP_001001985.3](#)

RefSeq Size: 6529 bp

RefSeq ORF: 900 bp

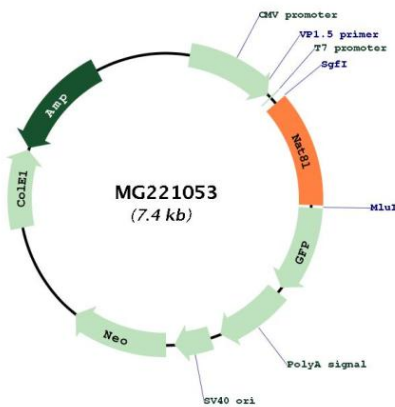
Locus ID: 269642

UniProt ID: [Q3UGX3](#)

Cytogenetics: 5 B2

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]

Product images:



Circular map for MG221053