

## Product datasheet for **MC220509**

### Noa1 (NM\_019836) Mouse Untagged Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                      |
| Product Name:             | Noa1 (NM_019836) Mouse Untagged Clone    |
| Tag:                      | Tag Free                                 |
| Symbol:                   | Noa1                                     |
| Synonyms:                 | 2610024G14Rik; AtNOS1; AU022345; mAtNOS1 |
| Mammalian Cell Selection: | Neomycin                                 |
| Vector:                   | pCMV6-Entry (PS100001)                   |
| E. coli Selection:        | Kanamycin (25 ug/mL)                     |



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**Fully Sequenced ORF:** >MC220509 representing NM\_019836  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGCTGCCCGCGCCTGGCTTGCGGGCTGCTCTGCGGGTCCGGCGGGCCCCGCGCCGGCCGCTGCGT  
 GCTACGGCCAGCACGGTGGCTTCTGGAGGGAAAGTGTGAGGTCCCCATCCGCCAGCGTGCATCATCCTT  
 GGGCCGTCGGGTTCCCCGAGCTCCACGGCAGCAGGACTATGCAGAAGGCCCGACACGGAGGAACGC  
 TTTCTGTTCCCGGAGTACGTCCCGGAGCGGACCCGGAGGAACAAGTGCGGGAGTTGCAGGAGCTGCGGG  
 AGTTGCAGCAGCTGCAGCAGGAGAAGGAACGAGAGAGATTGCAGCAGCGGGAGGAGCGGCTTACAGAGAA  
 GCTGCGGGCGGGCTTCCGGACGCTGCCTGTCCCGGAGTTTCCAGACGCCTCGGTGCCGCCACGGGCATC  
 TACTGCTCGGGTGCAGGACCGAGCTGCACTGCCAGCATCCCGGCTGCCGGCTACCTGCCGGAGGAGA  
 AGTTCCGCGACGCTGCCAGGCGGAAGGGCCCGCGCGGACCGTGTCCAACGCTGCTGGCTGCTGGT  
 GCACCACGGACGAGCCCTGCGCCTGCAGGTAAGCCGCGATCAGTACCTGGAGCTTGTGAGCGCAGCGCTG  
 CGGCGTCCCGGGCCGGCTCTGGTCTCTATATGGTGAATCTTCTAGACCTGCCGGACGCCCTGCTGCCCG  
 ACCTGCCCAAGCTGGTGGGCCCCAAGCAACTCATCGTGTGGGGAACAAAGTGGACCTGCTGCCCCAGGA  
 CGCTCCCGGCTACTTGAAGCGGCTGCGGAAGCGGCTGTGGGACGATTGCATCCGCGCCGGGCTCGTGGT  
 GCTCCTGGTCAACAAGGACACAGTACCCTGCCGGGATGAGCCACTGGAGGAGATAAAGAATCAGAATC  
 CGTCCCTCAGGTCCCGCACGGTAGTCAAGGACGTGCGACTGATCAGCGCCAAGACGGGCTATGGAGTTGA  
 AGAAATGATCTCTGCTCTTACAGCCTCTGGCGCTACCGTGGTGTGTCTACCTGGTGGGACCACTAAT  
 GCTGGCAAGTCCACTCTCTTAAACACACTCCTGGAGTCTGATTACTGCACCGCAAGGGCTCCGAAGCCA  
 TCGACCGGGCCACCATCTCCCCCTGGCCAGGACCCACATTAACCTCCTGAAGTTTCTATTGCAACCC  
 GACTCCTTACAGAATGTTCAAAAAGACAAAAGAGGCTTCAAGAAGATGCGACCAAAGCTGAGGAAGATCTT  
 AGTGAGGAAGAACAAGTCAAGTCAATCAACTGAAAAAGCACGGCTACATAGTAGGAAGATTGGAAGAA  
 CATTCTCGTACTCCAGAGAACAGGACGAAGTTCCTTTGAGTTTGTGATGCCGACTCCCTGGCCTTTGACAT  
 GGGAAAGTGAACAGTTGTGTCTGTGTGCAAAAAGCACCAAGCAAAATAGAGCTAACCCAGAGGACGTGAAA  
 GACGCCACTGGTTTTATGACACCCCTGGAATTACAAAAGAAAGCTGTATTTTAAATCTTCTAACAGAAA  
 AAGAAATAAATACTGTTTTGCCGACACATTCTATTATCCAAGAACCTTTGCTCAAGCCAGGAATGGT  
 TTTATTTTTGGTGGGATAGCCGAATAGATTTCTACAGGAAATCAGTCAGCCTGGTTACAGTTGTG  
 GCTTCCAACTTCTTCTGTTTCATATTACTTCTTGGACAAGGCAGATGCTCTGTATGAGAAACATGCAG  
 GTCACGAGCTACTGCTGGTTCCAATGGGTGGAAGAAGCAATGGCCAGTTTCCCCTCTTGTGCTGA  
 AGACATTACATTAAGGGAGGTGAAAAATTTGAAGCAGTAGCTGATATCAAGTTCTCTCTGAGGTTGG  
 GTTGACAGTAACACCTTATTCTGAGGGCACGCTGCATCTCCGAGGTCACACACCTGAAGGGACTGCTCTGA  
 CTGTCCACCCCTGCTTGCCATATATCGTTAATGTCAAAGGACAGCGCATGAAGAAAAGTGTGGCCTA  
 TAAACCAAGAAGCTCCGTCCCTGGTGCACAACCTGAAGAAGCACAGA **TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_019836
- Insert Size:** 2082 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:**

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\\_019836.3](#), [NP\\_062810.1](#)

**RefSeq Size:** 2303 bp

**RefSeq ORF:** 2082 bp

**Locus ID:** 56412

**UniProt ID:** [Q9JIG9](#)

**Cytogenetics:** 5 C3.3

**Gene Summary:** Involved in regulation of mitochondrial protein translation and respiration. Plays a role in mitochondria-mediated cell death. May act as a scaffolding protein or stabilizer of respiratory chain supercomplexes. Binds GTP.[UniProtKB/Swiss-Prot Function]