

## Product datasheet for **MC201364**

### Nmral1 (NM\_026393) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Nmral1 (NM_026393) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nmral1
Synonyms:	1110025F24Rik; AI256624
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>BC030039 sequence for NM_026393 GGGTATTGCCAGACAGAATCTCGGGACGCGTTCAGGGACCGGACGTCTCAGGGTAGAGATTCTGCCCTTC GCCAACTCTGCCACCCAGGCCCTTTGGATCACGCTCTTTGGGCTCTGGACCCATGGCTGATAGGAAA CTGGTGGTGGTTTTTGGAGCCACAGGTGCGCAAGGTGGCTCTGTGGCCCGTGCATTGCTAGAAGATGGGA CATTTCAGGATTCGAGTGGTAACAAGAAACCCTGAGCAGAGGGCAGCCAAAGAGCTGAAGCAGCAAGGTGC TGAGGTAGTGCAGGAGACCAGGACGATGCAGCTAGCATGGAGCTGGCCTTGGCTGGAGCCCATGCCACC TTCATTGTGACCAATTACTGGGAGACGTGCAGCCAGGACCGAGAAGTGCAGCAGCCACCAGTGGGACC AAGTATTCAAACAAGGCAAGCTTCTAGCCGATCTAGCCAAACGCTTGGGCCTCCATTATGTAGTGTACAG TGGCCTGGAGAACATCAGGAAGCTGACGGCTGGGAAGCTGGCCGAGGACACTTTGATGGCAAAGGGGAG GTGGAGGAATACTCCGAGACATCGGTGTTCCCATGACCAGTGTGCGGCTGCCTTGCTATTTGAGAATC TCCTTTCTATTTCTGCCCCAGAAAGCTGCAGATGGAAAAGCTTCTTGCTGGACTTGCCCATGGGTGA CGTCCCATGGATGGAATGTCTGTGAGTGACCTGGGCCCGTGGTGTCTCAGCTTGTGAAGAAGCCAGAA GAGTACGTAGGGCAGAACATCGGGCTCAGTACCTGCAGGCACACCCGAGAGGAGTATGCTGCCTTGCTTA GCAAGCACACTGGCAAGGCTGTACATCATGCCAAGACAACCTCCTGAGGATTACGAGAAAATTGGTTTCCA GGGGGCTCAAGACTTGGCCAACATGTTCCGTTTCTACACCCTGAAACCTGATCGGAACATTCATCTGACC CTGCGACTCAACCCAAAGCCAGACACTGGACCAGTGGCTGGAGCAGCACAAGGGGACTTTGCACAGC TGTGATCTGAAGCATTGTAGGGACAACAAGCACAACAACACTCTTTCTGTATACAGTTCTGTGTTT GGTTTTTTTTTCCCTCCCAAATAAAACCATTGTTATCACAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
Restriction Sites:	EcoRI-NotI
ACCN:	NM_026393
Insert Size:	930 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>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="#">BC030039</a></u> , <u><a href="#">AAH30039</a></u>
<b>RefSeq Size:</b>	1186 bp
<b>RefSeq ORF:</b>	930 bp
<b>Locus ID:</b>	67824
<b>UniProt ID:</b>	<u><a href="#">Q8K2T1</a></u>
<b>Cytogenetics:</b>	16 2.46 cM
<b>Gene Summary:</b>	<p>Redox sensor protein. Undergoes restructuring and subcellular redistribution in response to changes in intracellular NADPH/NADP(+) levels. At low NADPH concentrations the protein is found mainly as a monomer, and binds argininosuccinate synthase (ASS1), the enzyme involved in nitric oxide synthesis. Association with ASS1 impairs its activity and reduces the production of nitric oxide, which subsequently prevents apoptosis. Under normal NADPH concentrations, the protein is found as a dimer and hides the binding site for ASS1. The homodimer binds one molecule of NADPH. Has higher affinity for NADPH than for NADP(+). Binding to NADPH is necessary to form a stable dimer (By similarity).[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1).</p>