

## Product datasheet for **MC205890**

### Neurod4 (NM\_007501) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Neurod4 (NM_007501) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Neurod4
Synonyms:	AI846749; ATH-3; Ato; Atoh3; bHLH; bHLHa4; Math; MATH-; MATH-3; Math3
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:**

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>BC054391
CAGAAGCTCCAGT CAGATCACAGGAGCTGCCAGAGACTGTGGTACTGAAAGAACTACTCGCGGGAGCTG
ACCCCGGGAAAGAGAATCTATACATGGCAAAAATGTATATGAAATCCAAGGACATGGTGGAGCTGGTCAA
CACACAATCCTGGATGGACAAAGGTCTGAGCTCTCAAAATGAGATGAAGGAGCAAGAGAGAAGACCGGGC
TCTTATGGAATGCTCGGAACCTTAACTGAAGAGCATGACAGTATTGAGGAGGATGAAGAAGGAAGAAG
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GAACTTGTCTTTAAATAATGTTTGTAGTCTCTGGGAGTGTTCAGATAAAATGAAGCAATGTTTAAAA
GAAATGGCTGTTTTCCCTCCCTTTTCCAGTAGCAATAAAGCTTTGAGTGTATTAAAAA AAAAAAAAAAAAAA
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**Restriction Sites:**

RsrII-NotI

ACCN:	NM_007501
Insert Size:	993 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"><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>
RefSeq:	<a href="#">BC054391</a> , <a href="#">AAH54391</a>
RefSeq Size:	3376 bp
RefSeq ORF:	993 bp
Locus ID:	11923
UniProt ID:	<a href="#">O09105</a>
Cytogenetics:	10 77.81 cM
Gene Summary:	<p>This gene belongs to the neurogenic differentiation factor family and encodes a basic helix-loop-helix (bHLH) transcription factor which is expressed in the developing nervous system with high levels of expression in the brain, retina and cranial ganglions. Expression gradually becomes restricted to the neural retina. It is a key gene in the Ngn2-regulated neuronal differentiation pathway, coordinating the onset of cortical gene transcription. This gene also regulates amacrine cell fate determination in the retina. [provided by RefSeq, Jul 2016]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR compared to variant 1. Variants 1, 2, and 3 encode the same protein.</p>