

## Product datasheet for **MC219318**

### **Nme8 (NM\_181591) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nme8 (NM_181591) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nme8
Synonyms:	1700056P15Rik; Sptrx-2; Txndc3
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC219318 representing NM\_181591  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGCAAGCAAAAAGCGTGAAGTCCAGCTACAGTCAGTCGTCGAATAGTCAGAAGTGTGGGATGAGATGT  
 TGCTGAACAAAGGCTTAACAGTATTGATGTTTACCAAGCCTGGTGTGGACCTTGCAAAGCCGTGCAAAG  
 TTTATTAGAAAACTAAAAAATGAACTGAACGAAGATGAGATTCTCACTTCGTCGTTGCTGAAGCTGAC  
 AACATTGTGACTCTCCAGCCATTAGAGATAAATGTGAGCCCGTGTCTCTTTAGTCTTAATGGTAAAA  
 TCATTGCAAAGATTAGGGTGCAAATGCTCCACTATCAATAGAAAAGTCATTACCTTGATAGATGAAGA  
 GAGGAAAATTGTAGCAGGTGAAATGGATCGTCTCAGTATGTTGAAATCCACTAGTAGATGCAATCGAT  
 GAAGAATATGGGAAGTACAGTATGAAAGTGCTGCGGAAGTTACAATATGGCAATTATCAAACCTGATG  
 CTGTACTCATGAGAAAAATATAGAAGTAGGGAAAAATAGCCAAAGAAGGATTTGTTATAGAAATACA  
 AGAAAACCTGATTCTCCCTGAAGAGGTAGTGAGGGAATCTCACTCATATAGCAGACCAGCCTGACTTT  
 GAAGAGTTTGTCTTTCTATGACAAATGGCCTCAGCTGTGTGCTCATTGTATCTCAAGAAGACTCCGAGG  
 TTATTCAGGAAGAACTCTCCCGCAGACTGATACAGAAGAAGAACTGGCGTTTTGGAAGAGCCTCACGT  
 TAGGTTTTGCACCTGTGATGATAAAGAAGAAACGGGACAGTTTGCAAGAGTATATGGACCGACAGCATATG  
 TCTGATTACTGCGATGTCGAGGACGATGCGGTTAAGGTCTCTAAGCTCATTGACATATTATCCCTGATT  
 TAAAACTATGAAAAGCACGAATGTACAAACGACGCTAGCATTACTGCATCCAGACATCTGTGAGGAAGA  
 GAAAGATGACGTGTTGACGTTATTCACAATGAAGGGTACCATACTGATGCAGAGGCAAATCGTATTA  
 TCAGAGGAAGAAGCAAGAACAGTGTGCAAGATCCATGAAAACGAAGAGTATTTTGATAATCTTATAGGGC  
 ACATGACCAGTAATCACTCTTATGTCTTGCTCTACGGAGGAAAAATGGTGTGGAATATTGGAAAACATT  
 AATTGGGCCAAAAACGATTGAGGAAGCTTATGCATCTCATCCACAGAGTTTATGTGTACAGTTTGCTTCA  
 GGGAAATTTTCTACCAACCAGTTCTACGGGAGCAGTTCAAAAGCAGCAGCTGAGAAGGAAATAGCCGATT  
 TCTTCCCTCCCCAGAGCACACTTGCAATTGATCAAGCCTCATGTGACACACAAAAGAAAGATGGAGATCCT  
 GAAGACCATTAAGAGGCAGGATTTGAGCTGACCCTGATGAAGGAAATGCACCTGACTCCAGAGCATGCA  
 AACAAAATTTATTTCAAATAACAGGAAAAGATTTTTATAAAAATGTATTGGAAGCTTATCTTTGGGCA  
 TGTCGCTAGTCATGGTTTGGACCAAGTGAATGCTGTTGCAGAATGGAGGCGAATGGTTGGCCAGTAGA  
 CCCAGAAGAAGCAAACTGCTCTCCCAGAATCCCTCCGAGCCAAATATGGACTAGACATTTTGAGAAAT  
 GCTGTCCATGGGCGTCTAACTTTCTGAAGCATCAGAAATCATTAGTAATGTGTTCACAGAGGGTAATC  
 CTGAGAAGTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_181591

**Insert Size:** 1761 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\\_181591.3](#), [NP\\_853622.2](#)

**RefSeq Size:** 2088 bp

**RefSeq ORF:** 1761 bp

**Locus ID:** 73412

**UniProt ID:** [Q715T0](#)

**Cytogenetics:** 13 7.0 cM

**Gene Summary:** Probably required during the final stages of sperm tail maturation in the testis and/or epididymis, where extensive disulfide bonding of fibrous sheath (FS) proteins occurs. May be involved in the reduction of disulfide bonds within the sperm FS components. In vitro, it has neither NDP kinase nor reducing activity on disulfide bonds (By similarity).[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.