

## Product datasheet for MC223532

### Nefh (NM\_010904) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Nefh (NM_010904) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nefh
Synonyms:	mKIAA0845; NF-H; NF200; Nfh
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC223532 representing NM_010904 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGATGAGCTTCGGCAGCGCCGATGCGCTGCTGGGCGCCCGTTTCGCGCCGCTGCACGGAGGCGGCAGCC  
TGCACTACTCGCTGAGCCGAAGGCAGGCCCGGGCGGCACGCGCTCCGCGCCGGCTCCTCCAGCGGCTT  
CCACTCGTGGGCGCGGACGTCCGTGAGCTCCGTGTCGCGCTCACCCAGCCGCTTCCGCGGCGCCGCTCG  
AGCACCAGCTCGCTAGACACCCTAAGCAACGGCCAGAGGGCTGCGTGGTGGCGGCGGTGGCGGCGCGCA  
GCGAGAAGGAGCAGCTGCAGGCTCTGAACGACCGCTTCCGCGGCTACATCGACAAGGTGAGGCAGCTCGA  
GGCGCACAAACCGCAGCCTGGAGGGCGAGGCGGCGCGCTGCGGCAGCAGCAAGCCGGCCGCGCCCATG  
GGCGAGCTGTACGAGCGCGAGGTGCGCGAGATGCGCGGCCCGTCTGCGCCTCGGGGCGGCGCGGGG  
AGCTGCGCCTGGAGCAGGAGCACCTGCTGGAGGACATCGCTCACGTCCGCCAGCGGCTGGACGAGGAGGC  
CCGGCAGCGTGAGGAGGCGGAGGCGGCGCGCCCTGGCGCGCTTCGCGCAGGAGGCGGAAGCGGCG  
CGCGTGGAGCTGCAGAAGAAGGCGCAGGCGCTGCAGGAGGAGTGGGCTACCTGCGGCGCCACCACAGG  
AGGAGTGGGCGAGCTGCTCGGTGAGTCCAGGGCTGCGGGCCGCGCAGGCGCAGGCTCAGGCCAGGC  
TCGCGACGCCCTCAAGTGCAGCTGACGTCCGAGGAGTGGTCCGAGTGGTGGACCGACTCTCAGAGGCCAAAG  
GTGCAGACAGCTGCAGTCCGAGGAGTGGTCCGAGTGGTGGACCGACTCTCAGAGGCCAAAG  
TGAACACAGATGCTATGCGCTCGGCCAAAGAGGAGATAACTGAGTACCGCGGCAGCTGCAAGCCAGGAC  
CACAGAGTTGGAGCCCTGAAAAGCACCAAGGAGTCACTGGAGAGGCAGCGCTCTGAGCTAGAGGACCGT  
CATCAGGCAGACATTGCCTCCTACCAGGACGCTATTGAGCAGCTGGACAGTGGAGTGGAGAAACCAAGT  
GGGAGATGGTGCACAGCTCCGAGAGTACCAGGACCTGCTCAACGTCAAGATGGCCCTGGACATTGAGAT  
TGCCGCTTACAGAAAGCTCCTGGAAGGCGAAGAGTGTGCGATTGGCTTTGGTCCGAGTCCCTTCTCTCTT  
ACTGAAGGACTCCAAAAATTCCCTCCATATCCACGCACATAAAAGTCAAAGCGAAGAGATGATAAAGG  
TAGTAGAGAAATCCGAGAAGGAACTGTGATTGTAGAAGGACAGACAGAAGAGATCCGGGTGACGGAAGG  
AGTGACAGAAGAGGAGGACAAAGAGGCCCAAGGTGAGGAAGGAGAAGAAGCAGAAGAGGGAGAAGAAAAA



[View online »](#)

```

GAAGAAGAGGAAGGAGCAGCAGCTACATCTCCCCCTGCAGAAGAGGCTGCATCTCCAGAAAAAGAAACCA
AGTCTCGTGTGAAAGAAGAGGCCAAGTCCCCAGGTGAGGCCAAGTCCCCAGGTGAGGCCAAGTCCCCAGC
TGAGGCCAAGTCCCCAGGTGAGGCCAAGTCCCCAGGTGAGGCCAAGTCCCCAGGTGAGGCCAAGTCTCCA
GCTGAGCCCAAGTCTCCAGCTGAGCCCAAGTCTCCAGCTGAGGCCAAGTCAACAGCTGAGCCCAAGTCTC
CAGCTACAGTGAAGTCTCCAGGTGAGGCCAAGTCAACATCTGAGGCCAAATCTCCAGCTGAAGCCAAATC
TCCAGCTGAGGCCAAATCTCCAGCTGAGGCCAAATCTCCAGCTGAGGCCAAGTCAACAGCTGAAGCCAAAG
TCACCAGCTGAAGCCAAATCTCCAGCTACAGTGAAGTCTCCAGGTGAGGCCAAGTCAACATCTGAGGCCA
AATCTCCAGCTGAAGCCAAATCTCCAGCTGAGGCCAAATCTCCAGCTGAGGCCAAATCTCCAGCTGAGGT
CAAGTCAACAGGTGAGGCCAAGTCTCCAGCTGAGGCCAAGTCAACAGCTGAGGCCAAATCTCCAGCTGAG
GTCAAGTCAACAGCTGAGGCCAAGTCTCCAGCTGAGGTCAAGTCCCCAGGTGAGGCCAAGTCTCCAGCTG
CAGTGAAGTCAACAGCTGAGGCCAAGTCTCCAGCTGCAGTCAAGTCCCCAGGTGAGGCCAAGTCCCCAGG
TGAGGCCAAGTCAACAGCTGAGGCCAAATCTCCAGCTGAGGCCAAGTCAACAAATTGAGGTAAAATCTCCA
GAGAAGGCCAAGACCCCGTCAAGGAAGGAGCAAAATCTCCAGCTGAGGCCAAGTCTCCTGAGAAGGCCA
AGTCCCCCGTGAAGGAAGATATCAAGCCCCAGCTGAGGCCAAATCCCCGAGAAGGCCAAGAGCCCGT
GAAGGAAGGAGCAAAGCCTCCTGAGAAGGCCAAGCCTCTAGATGTGAAGTCTCCGAAGCCAGACTCCA
GTACAGGAGGAAGCGAAGCACCCACAGACATCAGACCCCTGAGCAGGTGAAAAGTCTGCCAAGGAGA
AGGCCAAGTCCCCTGAGAAGGAAGAAGCAAGACTTCTGAAAAGGTGGCTCCCAAGAAGGAAGAGGTGAA
GTCCCCTGTGAAGGAGGAGGTAAAAGCCAAAGAACCCCAAGAAGGTAGAAGAAGAGAAGACTGCCT
ACACCAAAGACAGAGGCGAAGGAGAGTAAGAAAGACGAAGCTCCCAAGGAGGCCCGAAGCCCAAGGTGG
AGGAGAAGAAGGAAACTCCCACGGAAAAGCCAAAGGACTCTACAGCAGAAGCCAAGAAGGAAGAGGCTGG
AGAGAAGAAGAAGCCGTGGCCTCAGAGGAGGAGACTCCTGCCAAGTTGGGTGTGAAGGAAGAAGCTAAA
CCCAAAGAGAAGCAGAGACAACCAAGACAGAAGCAGAAGACCAAGGCCAAAGAACCTAGCAAACCCA
CAGAGACGGAAAAGCCAAAGAAGAGGAGATGCCAGCGCACAGAGAAGAAAGACCAAGGAGAGAA
GACCACAGAGTCCAGGAAGCCTGAGGAGAAGCCAAAATGGAGGCCAAGGTCAAGGAGGATGACAAGAGC
CTTTCCAAAGAGCCTAGCAAACCAAGACAGAAAAGGCTGAAAAATCCTTAGCACAGACCAGAAAAGAAA
GCCAGCCCCAGAGAAGACCACAGAGGACAAGGCCACCAAGGGAGAGAAGTAA

```

```

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

```

**Restriction Sites:**

SgfI-MluI

**ACCN:**

NM\_010904

**Insert Size:**

3273 bp

**OTI Disclaimer:**

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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\\_010904.3](#), [NP\\_035034.2](#)

**RefSeq Size:** 4004 bp

**RefSeq ORF:** 3273 bp

**Locus ID:** 380684

**UniProt ID:** [P19246](#)

**Cytogenetics:** 11 3.12 cM

**Gene Summary:** Neurofilaments usually contain three intermediate filament proteins: L, M, and H which are involved in the maintenance of neuronal caliber. NF-H has an important function in mature axons that is not subserved by the two smaller NF proteins.[UniProtKB/Swiss-Prot Function]