

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
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC223532 representing NM_010904
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATGAGCTTCGGCAGCGCCGATGCGCTGCTGGGCGCCCGTTTCGCGCCGCTGCACGGAGGCGGCAGCC
TGCACTACTCGCTGAGCCGAAGGCAGGCCCGGGCGGCACGCGCTCCGCGCCGGCTCCTCCAGCGGCTT
CCACTCGTGGGCGCGGACGTCCGTGAGCTCCGTGTCCGCTCACCCAGCCGCTTCCGCGGCGCCGCTCG
AGCACCGACTCGCTAGACACCCTAAGCAACGGCCAGAGGGCTGCGTGGTGGCGCGGTGGCGGCGCGCA
GCGAGAAGGAGCAGCTGCAGGCTCTGAACGACCGCTTCGCGGGCTACATCGACAAGGTGAGGCAGCTCGA
GGCGCACAAACCGCAGCCTGGAGGGCGAGGGCGGGCGCTGCGGCAGCAGCAAGCCGGCCGCGCCCATG
GGCGAGCTGTACGAGCGCGAGGTGCGCGAGATGCGCGGCCCGTGTGCGCTCGGGCGGGCGCGGGG
AGCTGCGCCTGGAGCAGGAGCACCTGCTGGAGGACATCGCTCACGTCCGCCAGCGGCTGGACGAGGAGGC
CCGGCAGCGTGAGGAGGCGAGGGCGGGCGCGCCCTGGCGCGCTTCGCGCAGGAGGCGGAAGCGGGC
CGGTGGAGCTGCAGAAGAAGGCGCAGGCGCTGCAGGAGGAGTGGGCTACCTGCGGCGCCACCACCAGG
AGGAGGTGGGCGAGCTGCTCGTTCAGTCCAGGGCTGCGGGCCGCGCAGGCGCAGGCTCAGGCCGAGGC
TCGCGACGCCCTCAAGTGCACGTGACGTGCGGCTGCGGGAGATCCGCGCGCAGCTCGAAGGCCACGCG
GTGACAGCAGCTGCAGTCCGAGGAGTGGTTCGAGTGAAGTTGGACCGACTCTCAGAGGCAGCCAAAG
TGAACACAGATGCTATGCGCTCGGCCAAAGAGGAGATAACTGAGTACCGCGGCAGCTGCAAGCCAGGAC
CACAGAGTTGGAGGCCCTGAAAAGCACCAAGGAGTCACTGGAGAGGCAGCGCTCTGAGCTAGAGGACCGT
CATCAGGCAGACATTGCCTCCTACCAGGACGCTATTGAGCAGCTGGACAGTGAAGTGAAGAACCAAGT
GGGAGATGGCTGCACAGCTCCGAGAGTACCAGGACCTGCTCAACGTCAAGATGGCCCTGGACATTGAGAT
TGCCGCTTACAGAAAGCTCCTGGAAGGCGAAGAGTGTGCGATTGGCTTTGGTCCGAGTCCCTTCTCTCTT
ACTGAAGGACTCCAAAAATTCCTCCATATCCACGCACATAAAAGTCAAAGCGAAGAGATGATAAAGG
TAGTAGAGAAATCCGAGAAGGAACTGTGATTGTAGAAGGACAGACAGAAGAGATCCGGGTGACGGAAGG
AGTGACAGAAGAGGAGGACAAAGAGGCCAAGGTGAGGAAGGAGAAGAAGCAGAAGAGGGAGAAGAAAA
GAAGAAGAGGAAGGAGCAGCAGCTACATCTCCCTGCAGAAGAGGCTGCATCTCCAGAAAAAGAAACCA



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AGTCTCGTGTGAAAGAAGAGGCCAAGTCCCCAGGTGAGGCCAAGTCCCCAGGTGAGGCCAAGTCCCCAGC
TGAGGCCAAGTCCCCAGGTGAGGCCAAGTCCCCAGGTGAGGCCAAGTCCCCAGGTGAGGCCAAGTCTCCA
GCTGAGCCCAAGTCTCCAGCTGAGCCCAAGTCTCCAGCTGAGGCCAAGTCAACAGCTGAGCCCAAGTCTC
CAGCTACAGTGAAGTCTCCAGGTGAGGCCAAGTCAACATCTGAGGCCAAATCTCCAGCTGAAGCCAAATC
TCCAGCTGAGGCCAAATCTCCAGCTGAGGCCAAATCTCCAGCTGAGGCCAAGTCAACAGCTGAAGCCAAAG
TCACCAGCTGAAGCCAAATCTCCAGCTACAGTGAAGTCTCCAGGTGAGGCCAAGTCAACATCTGAGGCCA
AATCTCCAGCTGAAGCCAAATCTCCAGCTGAGGCCAAATCTCCAGCTGAGGCCAAATCTCCAGCTGAGGT
CAAGTCAACAGGTGAGGCCAAGTCTCCAGCTGAGGCCAAGTCAACAGCTGAGGCCAAATCTCCAGCTGAG
GTCAAGTCAACAGCTGAGGCCAAGTCTCCAGCTGAGGTCAAGTCCCCAGGTGAGGCCAAGTCTCCAGCTG
CAGTGAAGTCAACAGCTGAGGCCAAGTCTCCAGCTGCAGTCAAGTCCCCAGGTGAGGCCAAGTCCCCAGG
TGAGGCCAAGTCAACAGCTGAGGCCAAATCTCCAGCTGAGGCCAAGTCAACCAATTGAGGTAAAATCTCCA
GAGAAGGCCAAGACCCCGTCAAGGAAGGAGCAAAATCTCCAGCTGAGGCCAAGTCTCCTGAGAAGGCCA
AGTCCCCCGTGAAGGAAGATATCAAGCCCCAGCTGAGGCCAAATCCCCTGAGAAGGCCAAGACCCCGT
GAAGGAAGGAGCAAAGCCTCCTGAGAAGGCCAAGCCTCTAGATGTGAAGTCTCCGGAAGCCAGACTCCA
GTACAGGAGGAAGCGAAGCACCCACAGACATCAGACCCCTGAGCAGGTGAAAAGTCTGCCAAGGAGA
AGGCCAAGTCCCCGAGAGAAGGAAGCAAGACTTCTGAAAAGGTGGCTCCCAAGAAGGAAGAGGTGAA
GTCCCCTGTGAAGGAGGAGGTAAAAGCCAAAGAACCCCAAGGAAGGTAGAAGAAGAGAAGACACTGCCT
ACACCAAAGACAGAGGCGAAGGAGAGTAAGAAAGACGAAGTCCCAAGGAGGCCCCGAAGCCCAAGGTGG
AGGAGAAGAAGGAAACTCCCACGGAAAAGCCCAAGGACTCTACAGCAGAAGCCAAAGAAGGAAGAGGTGG
AGAGAAGAAGAAGCCGTGGCCTCAGAGGAGGAGACTCCTGCCAAGTTGGGTGTGAAGGAAGAAGCTAAA
CCCAAAGAGAAGACAGAGACAACCAAGACAGAAGACACCAAGGCCAAAGAACCTAGCAAACCCA
CAGAGACGGAAAAGCCAAAGAAAGAGGAGATGCCAGCGGCACCAGAGAAGAAAGACACCAAGGAGGAGAA
GACCACAGAGTCCAGGAAGCCTGAGGAGAAGCCAAAATGGAGGCCAAGGTCAAGGAGGATGACAAGAGC
CTTTCCAAAGAGCCTAGCAAACCAAGACAGAAAAGGCTGAAAAATCCTCTAGCACAGACCAGAAAAGAAA
GCCAGCCCCAGAGAAGACCACAGAGGACAAGGCCACCAAGGGAGAGAAGTAA

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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Restriction Sites:

Sgfl-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 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]