

Product datasheet for **RN207028**

Nefl (NM_031783) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nefl (NM_031783) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Nefl
Synonyms:	NF-L; NF68; Nfl
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>NM_031783 ORF sequence, RN207028 may differ due to SNPs.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGAGTTTCGTTACAGTACGAGCCGTACTTTTCGACCTCCTACAAGCGGCGCTACGTGGAGACGCCCCGG
GTGCACATCTCCAGCGTGCAGCGGCTACAGCACGGCGCGCTCTGCGTACTCCAGTACTCCGCGCCC
GTCTCCTCCTCTCTGTCCGTGCGCCGACGCTACTCATCCAGCTCCGGCTCTTTGATGCCAGCCTGGAG
AACCTCGATCTGAGCCAGGTAGCCGCCATCAGCAACGACCTCAAGTCTATCCGCACACAGGAGAAGGCA
CAGCTGCAGGACCTCAACGATCGCTTCGCCAGCTTCATCGAGCGCGTGCACGAGCTGGAGCAGCAGAAC
AAGGTCTGGAAGCCGAGCTGTTGGTGTGCGCCAGAAGCACTCAGAGCCTTCCCGCTTCCGCGCCCTG
TATGAGCAGGAGATCCGTGATCTGCGACTGGCGGCCGAAGACGCCACTAACGAGAAGCAGGCGCTGCAG
GGCGAGCGCGAGGGGCTGGAGGAGACTCTGCGCAACCTGCAGGCTCGCTACGAGGAGGAGGTGCTGAGC
CGCGAGGACGCCGAGGGCCGGCTGATGGAAGCCCGAAAGCGCGGATGAGGCTGCGCTCGCCCGCGCC
GAGCTGGAGAAGCGCATCGACAGCTGATGGACGAGATAGCCTTCTGAAAAAGGTGCACGAGGAAGAG
ATCGCCGAGCTGCAGGCTCAGATCCAGTATGCTCAGATCTCCGTGGAGATGGACGTGTCTCCAAGCCC
GACCTCTCCGCCCTCTCAAGGACATCCCGCTCAGTACGAGAAGCTGGCCGCCAAGAATATGCAGAAT
GCCGAAGAGTGGTTCAAGAGCCGCTTACGGTGCTAACCGAGAGCGCCGCCAAGAACACCGACGCAGTG
CGCGCTGCCAAGGACGAGGTGTCGGAAGCCGCCCGCTACTTAAGGCTAAGACCTGGAGATCGAAGCC
TGCCGGGTATGAACGAAGCTCTAGAGAAGCAGCTGCAGGAGCTGGAGGACAAGCAGAATGCAGACATC
AGCGCCATGCAGGACACAATCAACAACTGGAGAATGAGCTGCGAAGCACGAAGAGCGAGATGGCCAGG
TACCTGAAGGAGTACCAGGACCTCCTCAATGTCAAGATGGCATTGGACATTGAGATTGCAGCTTACAGG
AAACTTTGGAAGCGGAAGAAACCAGGCTCAGTTTACCAGCGTGGGTAGCATAACCAGCGGCTACTCT
CAGAGCTCGCAGGTCTTTGGCCGTTCTGCTTACAGTGGCTTGCAGAGCAGCTCCTACTTGATGTCT
CGAGCATTCCAGCCTACTATAACAGCCAGTCCAGGAAGAGCAGTCAGAGGTGGAGGAGACCATTGAG
GCTACGAAAGCTGAGGAGGCCAAGGATGAGCCCCCTCTGAAGGAGAAGCAGAAGAGGAGGAGAAGGAG
AAAGAGGAGGGGAGGAAGGAAGGTGCTGAGGAGGAAGAAGCTGCCAAGGATGAGTCTGAAGATGCC
AAAGAAGAAGAAGGTGGTGAAGGTGAAGAGGAAGACACCAAGAGTCAGAAGAGGAAGAGAAGAAAGAG
GAAAGTGTGGGAGGAGCAAGCTGCTAAGAAGAAAGATTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
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Protein Sequence:

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MSSFSYEPYFSTSYKRRYVETPRVHISSVRSYSTARSAYSSYSAPVSSSLSVRRSYSSSSGSLMPSLE
NLDLSQVAASINDLKSIRTQEKAQLQDLNDRFASFIERVHELEQQNKVLEAELLVLRQKHSEPSRFRAL
YEQEIRDLRLAAEDATNEKQALQGEREGLEETLRNLQARYEEVLSREDAEGRLEARKGADEAALARA
ELEKRIDSLMDEIAFLKKVHEEEIAELQAQIQYQISVEMDVSSKPDLSAALKDIRAQYKLAAKNMQN
AEEWFKSRFTVLTESAAKNTDAVRAAKDEVSESRLLKAKTLEIEACRGMNEALEKQLELEDKQNADI
SAMQDTINKLENELRSTKSEMARYLKEYQDLLNVKMLDIEIAAYRKLLEGEETRLSFTSVGSITSGYS
QSSQVFRSAYSLQSSYLMSARAFPAYYTSVQEEQSEVEETIEATKAEAAKDEPPSEGEAEHEEKEE
KEEHEEHEEAEHEEAAKDESEDAKEEEGEGEEEDTKESEEEKKEESAGEEQAAKKK*
TRTRPLEQKLISEEDLAANDILDYKDDDKV
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Fully Sequenced ORF: >RN207028 representing NM_031783
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGTTCGTTACAGTACGAGCCGACTTTTCGACCTCCTACAAGCGGCGCTACGTGGAGACGCCCCGGG
 TGCACATCTCCAGCGTGCAGCGGCTACAGCACGGCGGCTCTGCGTACTCCAGTACTCCGCGCCCGT
 CTCCTCTCTCTGTCGGTGCGCCGAGCTACTCATCCAGCTCCGCTCTTTGATGCCAGCCTGGAGAAC
 CTCGATCTGAGCCAGGTAGCCGCATCAGCAACGACCTCAAGTCTATCCGCACACAGGAGAAGGCACAGC
 TGCAGGACCTCAACGATCGCTTCGCGAGCTTTCATCGAGCGGTGCACGAGCTGGAGCAGCAGAACAAGGT
 CCTGGAAGCCGAGCTGTTGGTGTGCGCCAGAAGCACTCAGAGCCTTCCCGCTTCCGCGCCCTGTATGAG
 CAGGAGATCCGTGATCTGCGACTGGCGGCCGAAGACGCCACTAACGAGAAGCAGGCGCTGCAGGGCGAGC
 GCGAGGGGCTGGAGGAGACTCTGCGCAACCTGCAGGCTCGCTACGAGGAGGAGGTGCTGAGCCGCGAGGA
 CGCCGAGGGCCGGCTGATGGAAGCCCGAAAGGCGCGGATGAGGCTGCGCTCGCCCGCGCCGAGCTGGAG
 AAGCGCATCGACAGCCTGATGGACGAGATAGCCTTCTGAAAAAGGTGCACGAGGAAGAGATCGCCGAGC
 TGCAGGCTCAGATCCAGTATGCTCAGATCTCCGTGGAGATGGACGTGCTCCTCAAGCCCGACCTCTCCGC
 CGCTCTCAAGGACATCCGCGCTCAGTACGAGAAGCTGGCCGCAAGAATATGCAGAAATGCCGAAGAGTGG
 TTCAAGAGCCGCTTACGGTGCTAACCGAGAGCGCCGCAAGAACACCGACGAGTGCAGCTGCCGCTGCCAAGG
 ACGAGGTGTCGGAAAGCCGCGCCTACTTAAGGCTAAGACCCTGGAGATCGAAGCCTGCCGGGTATGAA
 CGAAGCTCTAGAGAAGCAGCTGCAGGAGCTGGAGGACAAGCAGAATGCAGACATCAGCCCATGCAGGAC
 ACAATCAACAACTGGAGAATGAGCTGCGAAGCACGAAGAGCGAGATGGCCAGGTACCTGAAGGAGTACC
 AGGACCTCCTCAATGTCAAGATGGCATTGGACATTGAGATTGCAGCTTACAGGAACTCTTGAAGGCCGA
 AGAAACCAGGCTCAGTTTACCAGCGTGGGTAGCATAACCAGCGGCTACTCTCAGAGCTCGCAGGTCTTT
 GGCCGTTCTGCTTACAGTGGCTTGCAGAGCAGCTCCTACTTGATGTCTGCTCGAGCATTCCAGCCTACT
 ATACCAGCCACGTCCAGGAAGAGCAGTACAGAGGTGGAGGAGACCATTGAGGCTACGAAAGCTGAGGAGGC
 CAAGGATGAGCCCCCTCTGAAGGAGAAGCAGAAGAGGAGGAGAAGGAGAAGAGGAGGGGGAGGAAGAG
 GAAGGTGCTGAGGAGGAAGAAGCTGCCAAGGATGAGTCTGAAGATGCCAAAGAAGAAGGAGGTGGTGAAG
 GTGAAGAGGAAGACCAAAAGATCAGAAGAGGAAGAAGAAGAAGAGGAGAGTGTGGGGAGGAGCAAGC
 TGCTAAGAAGAAAGATTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_031783
- Insert Size:** 1629 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_031783.2](#)

RefSeq Size: 2026 bp

RefSeq ORF: 1629 bp

Locus ID: 83613

UniProt ID: [P19527](#)

Cytogenetics: 15p12

MW: 61.3 kDa

Gene Summary: one component of the hamartin-tuberin tuberous sclerosis complex; may play a role in in central nervous system function [RGD, Feb 2006]