

## Product datasheet for **RR207028**

### **Nefl (NM\_031783) Rat Tagged ORF Clone**

#### **Product data:**

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



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**ORF Nucleotide Sequence:**

>NM\_031783 ORF sequence, RR207028 may differ due to SNPs.  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGAGTTTCGTTACAGTACGAGCCGTACTTTTCGACCTCCTACAAGCGGCGCTACGTGGAGACGCCCCGG
GTGCACATCTCCAGCGTGCAGCGGCTACAGCACGGCGCGCTCTGCGTACTCCAGTACTCCGCGCCC
GTCTCCTCTCTGTGCGGTGCGCCGAGCTACTCATCCAGCTCCGGCTCTTTGATGCCAGCCTGGAG
AACCTCGATCTGAGCCAGGTAGCCGCCATCAGCAACGACCTCAAGTCTATCCGCACACAGGAGAAGCA
CAGCTGCAGGACCTCAACGATCGCTTCGCCAGCTTTCATCGAGCGCGTGCACGAGCTGGAGCAGCAGAAC
AAGGTCTGGAAGCCGAGCTGTTGGTGTGCGCCAGAAGCACTCAGAGCCTTCCCGCTTCCGCGCCCTG
TATGAGCAGGAGATCCGTGATCTGCGACTGGCGGCCGAAGACGCCACTAACGAGAAGCAGGCGCTGCAG
GGCGAGCGCGAGGGGCTGGAGGAGACTCTGCGCAACCTGCAGGCTCGCTACGAGGAGGAGGTGCTGAGC
CGCGAGGACGCCGAGGGCCGGCTGATGGAAGCCCGAAAGCGCGGATGAGGCTGCGCTCGCCCGCGCC
GAGCTGGAGAAGCGCATCGACAGCTGATGGACGAGATAGCCTTCTGAAAAAGTTGCACGAGGAAGAG
ATCGCCGAGCTGCAGGCTCAGATCCAGTATGCTCAGATCTCCGTGGAGATGGACGTGCTCCAAGCCC
GACCTCTCCGCCCTCTCAAGGACATCCCGCTCAGTACGAGAAGCTGGCCGCCAAGAATATGCAGAAT
GCCGAAGAGTGGTTCAAGAGCCGCTTACGGTGTAAACGAGAGCGCCGCCAAGAACACCGACGCAGTG
CGCGCTGCCAAGGACGAGGTGTCGGAAGCCGCCCGCTACTTAAGGCTAAGACCTGGAGATCGAAGCC
TGCCGGGGTATGAACGAAGCTCTAGAGAAGCAGCTGCAGGAGCTGGAGGACAAGCAGAATGCAGACATC
AGCGCCATGCAGGACACAATCAACAACTGGAGAATGAGCTGCGAAGCACGAAGAGCGAGATGGCCAGG
TACCTGAAGGAGTACCAGGACCTCTCAATGTCAAGATGGCATTGGACATTGAGATTGCAGCTTACAGG
AAACTCTTGAAGGCGAAGAAACCAGGCTCAGTTTACCAGCGTGGGTAGCATAACCAGCGGCTACTCT
CAGAGCTCGCAGGTCTTTGGCCGTTCTGCTTACAGTGGCTTGCAGAGCAGCTCCTACTTGATGCTGCT
CGAGCATTCCAGCCTACTATACCAGCCAGTCCAGGAAGAGCAGTCAGAGGTGGAGGAGACCATTGAG
GCTACGAAAGCTGAGGAGGCCAAGGATGAGCCCCCTCTGAAGGAGAAGCAGAAGAGGAGGAGAAGGAG
AAAGAGGAGGGGAGGAAGGAAGGTGCTGAGGAGGAAGAAGCTGCCAAGGATGAGTCTGAAGATGCC
AAAGAAGAAGAAGGTGGTGAAGGTAAGAGGAAGACACCAAGAGTCAGAAGAGGAAGAGAAGAAAGAG
GAAAGTGTGGGAGGAGCAAGCTGCTAAGAAGAAAGAT
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCGC
```

**Protein Sequence:**

>Peptide sequence encoded by RR207028  
 Blue=ORF Red=Cloning site Green=Tag(s)

```
MSSFSYEPYFSTSYKRRYVETPRVHISSVRSYGSTARSAYSSYSAPVSSSLSVRRSYSSSSGSLMPSLE
NLDLSQVAAIISNDLKSIRTQEKAQLQDLNDRFASFIERVHELEQQNKVLEAELLVLRQKHSEPSRFRAL
YEQEIRDLRLAAEDATNEKQALQGEREGLLETLRNLQARYEEVLSREDAEGRLEMEARKGADEAALARA
ELEKRIDSLMDEIAFLKKVHEEEIAELQAQIQYAQISVEMDVSSKPDLSAALKDIRAQYEKLAAKNMQN
AEEWFKSRFTVLTESAAKNTDAVRAAKDEVSESRLLKAKTLEIEACRGMNEALEKQLQELEDKQNADI
SAMQDTINKLENELRSTKSEMARYLKEYQDLLNVKMLDIEIAAYRKLLEGEETRLSFTSVGSITSGYS
QSSQVFGRSAYSGLQSSSYLMSARAFPAYTSHVQEEQSEVEETIEATKAEAKDEPPSEGEAEIEEEE
KEEGEEEEGAEEEEAAKDESEDAKEEGEGEEEDTKESEEEKKEESAGEEQAAKKDD
TRTRPLEQKLISEEDLAANDILDYKDDDDKV
```

**Restriction Sites:**

Sgfl-Mlul

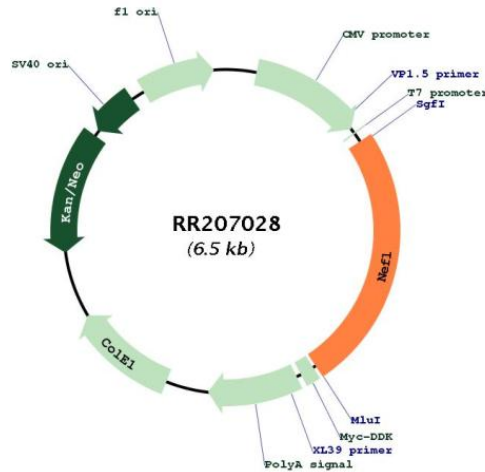
Cloning Scheme:

Cloning sites used for ORF Shutting:



\* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM\_031783

ORF Size: 1626 bp

OTI Disclaimer: 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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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]