

## Product datasheet for **RN205917**

### **Nenf (NM\_001002851) Rat Untagged Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Nenf (NM\_001002851) Rat Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Nenf  
**Synonyms:** SCIRP10; Spuf  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >RN205917 representing NM\_001002851  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGCGCCCGCGCCCTGGTGGTGGCTGCGGCCGCTGGCGGCGCTCGCCCTGGCGCTGGCGCTGGTCC  
GGGTGCCCTCAGCCCGGGCCGGGCAGATGCCGCGCCCGCAGAGCGGGCCCGCCAGTACGGCTCTTCAC  
CGAGGAGGAGCTGGCCCGCTACAGCGGCGAGGAGGAGGATCAACCCATCTACTTGGCAGTGAAGGGAGTG  
GTGTTTCGATGTCACCTCTGGGAAGGAGTTTATGGACGTGGAGCCCCCTACAACGCCTTGGCCGGGAAGG  
ACTCGAGCAGAGGTGTGGCCAAGATGTCGCTGGATCCTGCAGACCTCACTCATGACATTTCTGGTCTCAC  
TGCCAAGGAGCTGGAAGCCCTCGATGACATCTTCAGCAAGGTGTACAAAGCCAAATACCCCATTTGTTGGC  
TACACGGCCCGCAGGATCCTCAACGAGGATGGCAGCCCCAACCTGGACTTCAAGCCTGAAGACCAGCCCC  
ATTTTGACATAAAGGACGAGTTC**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001002851  
**Insert Size:** 516 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).



[View online »](#)

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001002851.1, NP_001002851.1</u>
<b>RefSeq Size:</b>	682 bp
<b>RefSeq ORF:</b>	516 bp
<b>Locus ID:</b>	289380
<b>UniProt ID:</b>	<u>Q6IUR5</u>
<b>Cytogenetics:</b>	13q27
<b>Gene Summary:</b>	Acts as a neurotrophic factor in postnatal mature neurons, enhancing neuronal survival. Promotes cell proliferation and neurogenesis in undifferentiated neural pro-genitor cells at the embryonic stage and inhibits differentiation of astrocyte. Its neurotrophic activity is exerted via MAPK1/ERK2, MAPK3/ERK1 and AKT1/AKT pathways. Neurotrophic activity is enhanced by binding to heme. Acts also as an anorexigenic neurotrophic factor that contributes to energy balance.[UniProtKB/Swiss-Prot Function]