

## Product datasheet for **MG201443**

### Nenf (BC048464) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Nenf (BC048464) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Nenf  
**Synonyms:** Spuf, SCIRP10  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG201443 representing BC048464  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGCGCCCCGCGCCCTGGTGGCGGCTGCGGCTGCTGGCGGCGCTCGTCCTGGCGCTGGCTCTGGTCC  
CAGTGCCTCAGCCTGGGCTGGGCAGACGCCGCGCCCCGAGAGCGGGCCCCGGTGGGCTCTTCAC  
CGAGGAGGAGCTGGCCGCTACGGCGGCGAGGAGGAGGATCAGCCATCTACTTGGCAGTGAAGGGAGTG  
GTGTTTCGATGTCACCTCTGGGAAGGAGTTTATGGACGAGGAGCCCCCTACAATGCCTTGGCCGGGAAGG  
ACTCCAGCAGAGGTGTGGCCAAGATGTCACTGGATCCAGCAGACCTCACTCACGACACTACTGGTCTCAC  
GGCCAAGGAGCTGGAGGCCCTCGATGACGTCTTCAGCAAGGTGTACAAAGCCAAGTACCCATTGTTGGC  
TACACAGCCCGAAGGATCCTCAACGAGGATGGCAGCCCCAACCTGGACTTCAAGCCTGAAGACCAGCCCC  
ATTTTGACATAAAGGACGAATTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1721\\_g09.zip](https://cdn.origene.com/chromatograms/ja1721_g09.zip)

**Restriction Sites:** Sgfl-Mlul



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Cloning Scheme:



ACCN: BC048464

ORF Size: 513 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:

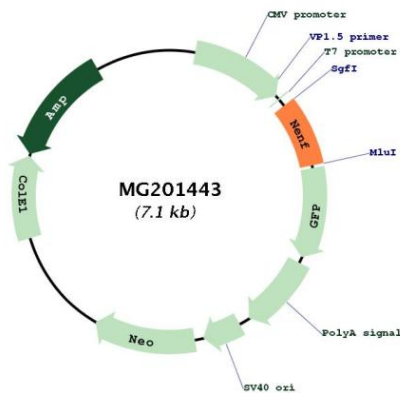
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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: [BC048464](#), [AAH48464](#)

RefSeq Size: 681 bp  
 RefSeq ORF: 515 bp  
 Locus ID: 66208  
 Cytogenetics: 1 H6  
 Gene Summary:

Acts as a neurotrophic factor in postnatal mature neurons, enhancing neuronal survival (PubMed:15605373). Promotes cell proliferation and neurogenesis in undifferentiated neural pro-generator cells at the embryonic stage and inhibits differentiation of astrocyte (PubMed:16547973). Its neurotrophic activity is exerted via MAPK1/ERK2, MAPK3/ERK1 and AKT1/AKT pathways (PubMed:15605373, PubMed:16547973). Neurotrophic activity is enhanced by binding to heme (PubMed:18056703). Acts also as an anorexigenic neurotrophic factor that contributes to energy balance (PubMed:23576617).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG201443