

Product datasheet for MR201443

Nenf (NM_025424) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nenf (NM_025424) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Nenf
Synonyms: 1110060M21Rik; SCIRP10; Spuf
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR201443 representing NM_025424
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCGCGCCCCGCGCCCTGGTGGCGGCTGCGGCTGCTGGCGGCGCTCGTCTGGCGCTGGCTCTGGTCC
 CAGTGCCTCAGCCTGGGCTGGGAGACGCCGCGCCCCGAGAGCGGGCCCCCGGTGCGGCTCTTCAC
 CGAGGAGGAGCTGGCCGCTACGGCGGCGAGGAGGAGGATCAGCCATCTACTTGGCAGTGAAGGGAGTG
 GTGTTTCGATGTCACCTCTGGGAAGGAGTTTATGGACGAGGAGCCCCCTACAATGCCTTGGCCGGGAAGG
 ACTCCAGCAGAGGTGTGGCCAAGATGTCAGTCCAGCAGACCTCACTCACGACACTACTGGTCTCAC
 GGCCAAGGAGCTGGAGGCCCTCGATGACGCTTTCAGCAAGGTGTACAAAGCCAAGTACCCATTGTTGGC
 TACACAGCCCGAAGGATCCTCAACGAGGATGGCAGCCCCAACCTGGACTTCAAGCCTGAAGACCAGCCCC
 ATTTTGACATAAAGGACGAATTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR201443 representing NM_025424
 Red=Cloning site Green=Tags(s)
 MARPAPWWRLRLAALVLALALVPVPSAWAQTPRPAERGPVRLFTEEELARYGGEEEDQPIYLAVKGV
 VFDVTSGKEFYGRGAPYNALAGKDSSRGVAKMSLDPADLTHDTTGLTAKELEALDDVFSKVYKAKYPIVG
 YTARRILNEDGSPNLDFKPEDQPHFDIKDEF

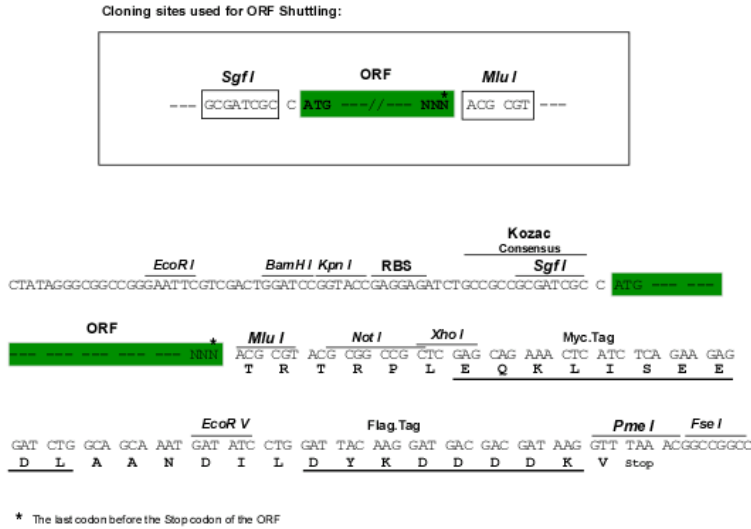
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9005_c10.zip



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_025424

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: [NM_025424.3](#)

RefSeq Size: 658 bp

RefSeq ORF: 516 bp

Locus ID: 66208

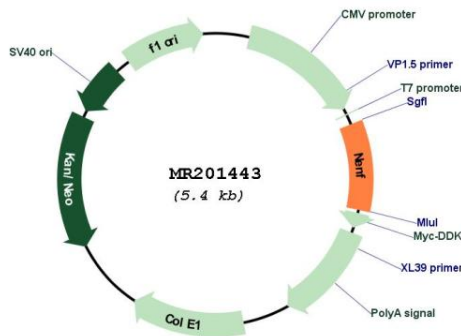
UniProt ID: [Q9CQ45](#)

Cytogenetics: 1 H6

MW: 19.4 kDa

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 MR201443