

Product datasheet for MR229519

Nelfe (NM_138580) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nelfe (NM_138580) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nelfe
Synonyms:	D17H6S45; NELF-E; RD; Rdbp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR229519 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTGGTGATACCTCCGGGCTGAGTGAAGAGGAAGAGGCACTGCAGAAGAAGTTCAACAACTCAAGA
AGAAGAAAAGGCATTGCTGGCTCTGAAGAAGCAGAGCAGCAGCGGCCAGCGAGCCAGGGCGGTGTC
ACGCTCACTGTCAGAGCAGCCTGTGGTGGACACTGCCACAGCAACAGAACAGGCCAACTGGTGAAG
TCAGGAGCCATCAGTGCCATCAAGGCTGAACTAAGAAGTCAAGGTTCAAACGTTCTCGGACCTGGAAG
GGAAGTTAAAGGACCCAGAGAAGGGCCTGTCCCCTTTCCAGCCGTTCCAGAGGAGCATGTCTGCTGA
TGAGGACCTACAGGAGCCATCCAGACGTCCCAGAGGAAATCTCTGTATGAAAGCTTTGTGCTTCTAGT
GATCGGCTTCGGGAAGTGGGACAAGATGGAGAAGAAGCAGAGGCCCCCGGGGCTGGTGTGGCCACCTC
GAGGCTTTGACTGGAGCTATGAAGAGCATGGTAGCGCCGCTCCTCAGCCTCCCCTCCCCGAAGCCGAG
CAGGGACCGAAGTCATGACCGGAGCCGAGATAGGGATCGGGACAAAGAGAGAGACAGAGACCGAGATCGA
GATCGAGACAGAGACCGGATAAAGACAAGACAGAGACCGGGATCGAGACAGAGACCGGGACCGAGATC
GGGAACGAGACCGAGAGGGCCCTTCCGAGGTCAGACTATTCCCCGAACGGAGGGCCCTCGAAAGGG
GAACACACTGTATGTGTATGGAGAGGACATGACGCCACCCTCTCCGCGGGCCTTCTCCTTTGGA
AATATCATCGACCTCTCCATGGACCCACCCAGAACTGTGCTTGTACCTACGAGAAGATGGAGTCTG
CAGATCAGGCTGTTGCTGAGCTCAATGGACCCAGGTTGGAATCTGTGCAGCTTAAAGTCAACATAGCCCG
AAAACAGCCCATGCTGGACGCTGCTACTGGCAAATCTGTCTGGGCTCCCTTGTGTCCAGAACAGCCCT
AAGGGTTGCCATCGAGACAAGAGGACCCAGATTGTGTACAGTGACGATCTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR229519 protein sequence
 Red=Cloning site Green=Tags(s)

MLVIPPGLSEEEALQKKFNKFKKKKALLALKKQSSSGPASQGGVKRSLSEQPVVDTATATEQAKQLVK
 SGATSAIKAETKNSGFKRSRTLEGKLDPEKGPVPTFQPFQSRMSADELQEPSRRPQRKSLYESFVSSS
 DRRLRELQDGEAEAPGAGDGPGRGFDWSYEEHGSARSSASPPRSRSDRSHDRSRDRDRDKERDRDRDR
 DRDRDRDKDKDRDRDRDRDRDRDRDRDRDREGPFRRSDSFERRAPRKGNTLYVYGEDMTPTLLRGAFSPFG
 NIIDLSDPPRNCAFTVYEKMESADQAVAEANGTQVESVQLKVNARKQPMLEDAATGKSVWGLAVQNSP
 KGCHDRKRTQIVYSDDL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_138580

ORF Size: 1101 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_138580.2](#), [NP_613046.2](#)

RefSeq Size: 1409 bp

RefSeq ORF: 1104 bp

Locus ID: 27632

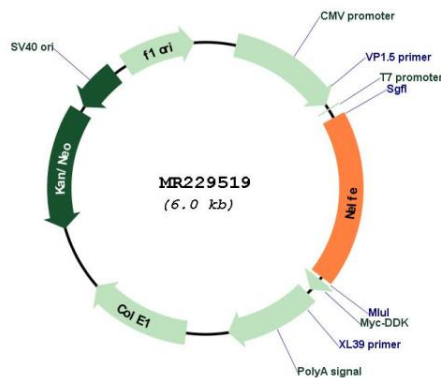
UniProt ID: [P19426](#)

Cytogenetics: 17 18.4 cM

MW: 41.5 kDa

Gene Summary: Essential component of the NELF complex, a complex that negatively regulates the elongation of transcription by RNA polymerase II (By similarity). The NELF complex, which acts via an association with the DSIF complex and causes transcriptional pausing, is counteracted by the P-TEFb kinase complex (By similarity). Provides the strongest RNA binding activity of the NELF complex and may initially recruit the NELF complex to RNA (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR229519