

Product datasheet for MR205656

Nelfe (NM_001045863) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nelfe (NM_001045863) 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:	>MR205656 representing NM_001045863 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTGGTGATACCTCCGGGGCTGAGTGAAGAGGAAGAGGCACTGCAGAAGAAGTTCAACAACTCAAGA
AGAAGAAAAGGCATTGCTGGCTCTGAAGAAGCAGAGCAGCAGCGGCCAGCGAGCCAGGGCGGTGTCAA
ACGCTCACTGTCAGAGCAGCCTGTGGTGGACACTGCCACAGCAACAGAACAGGCCAAACAACTGGTGAAG
TCAGGAGCCATCAGTGCCATCAAGGCTGAACTAAGAAGTCAAGGTTCAAACGTTCTCGGACCCTGGAAG
GGAAGTTAAAGGACCCAGAGAAGGGCCTGTCCCCTTTCCAGCCGTTCCAGAGGAGCATGTCTGCTGA
TGAGGACCTACAGGAGCCATCCAGACGTCCCAGAGGAAATCTCTGTATGAAAGCTTTGTGCTTCTAGT
GATCGGCTTCGGGAAGTGGGACAAGATGGAGAAGAAGCAGAGGCCCCCGGGGCTGGTGTGGCCACCTC
GAGGCTTTGACTGGAGCTATGAAGAGCATGGTAGCGCCGCTCCTCAGCCTCCCCTCCCCGAAGCCGAG
CAGGGACCGAAGTCATGACCGGAGCCGAGATAGGGATCGGGACAAAGAGAGAGACAGAGACCGAGATCGA
GATCGAGACAGAGACCGGGATAAAGACAAAGACAGAGACCGGGATCGAGACAGAGACCGGGACCGAGATC
GGGAACGAGACCGAGAGGGCCCTTCCGAGGTCAGACTATTCCCCGAACGGAGGGCCCTCGAAAGGG
GAACACACTGTATGTGTATGGAGAGGACATGACGCCACCCTCCTCCGCGGGCCTTCTCCTTTGGA
AATATCATCGACCTCTCCATGGACCCACCCAGAACTGTGCCTTGTACCTACGAGAAGATGGAGTCTG
CAGATCAGGCTGTTGCTGAGCTCAATGGACCCAGGTTGGAATCTGTGCAGCTTAAAGTCAACATAGCCCG
AAAACAGCCCATGCTGGACGCTGCTACTGGCAAATCTGTCTGGGCTCCCTTGTGTCCAGAACAGCCCT
AAGGGTTGCCATCGAGACAAGAGGACCCAGATTGTGTACAGTACGATCTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR205656 representing NM_001045863
 Red=Cloning site Green=Tags(s)

MLVIPPGLSEEEALQKFNKLLKKKALLALKKQSSSGPASQGGVKRSLSEQPVVDTATATEQAKQLVK
 SGATSAIKAETKNSGFKRSRTLEGKLDPEKGPVPTFQPFQRMSADEDLQEPSRRPQRKSLYESFVSSS
 DRLRELQDGEAEAPGAGDGPPRGFDWSYEEHGSARSSASPPRSRSDRSHDRSRDRDRDKERDRDRDR
 DRDRDRDKDKDRDRDRDRDRDRDRDREGPFRRSDSFERRAPRKGNTLYVYGEDMTPTLLRGAFSPFG
 NIIDLSDPPRNCAFTVYEKMESADQAVAEANGTQVESVQLKVNIAARKQMLDAATGKSVWGLAVQNSP
 KGCHDRKRTQIVYSDDL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9039_g03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_001045863

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_001045863.1](#), [NP_001039328.1](#)

RefSeq Size: 1535 bp

RefSeq ORF: 1104 bp

Locus ID: 27632

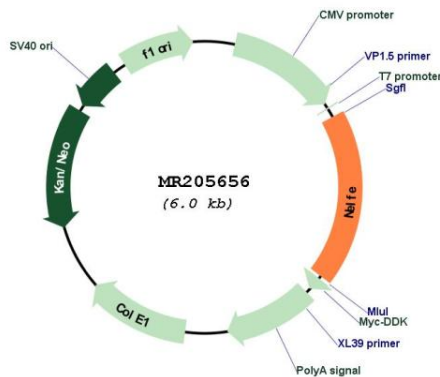
UniProt ID: [P19426](#)

Cytogenetics: 17 18.4 cM

MW: 41.9 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 MR205656