

Product datasheet for **MR208491**

Nelfa (NM_011914) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	Nelfa
Synonyms:	Whsc2; Whsc2h
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



ORF Nucleotide Sequence: >MR208491 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCTTCCATGAGGGAGAGTGACACCGGCTGTGGCTGCACAACAAGCTGGGCGCCACGGACGAGCTGT
 GGGCGCCACCCAGCATCGCGTCCCTGCTCACC GCCCGGTCATCGATAACATCCGCCCTCTGCTTCCACCG
 CCTCTCCTCGGCCGTGAAGCTCAAGCTACTGCTCGGGACGCTGCATCTCCCGCGCCGACCGTGGACGAG
 ATGAAGGGCGCTCTGATGGATATCATCCAGCTGGCCACGCTGGACTCAGACCCCTGGGTCTCATGGTTG
 CTGACATTCTGAAGTCTTCCCTGACACGGGCTCCTTGAATCTGGACCTTGAGGAACAGAACCCCAATGT
 TCAAGACATCTTAGGAGAACTTAGAGAAAAAGTGAGTGAGTGCGAGGCATCTGCCATGCTACCACTGGAG
 TGCCAGTACCTGAACAAGAATGCCCTGACCACCCTTGCTGGGCCCTCACCCACCAAGTCAAGCATTTTC
 AGCTAAAGCGGAAACCTAAGAGTGCCACGCTGCGGGCAGAACTGCTGCAGAAATCTACCGAGACAGCCCA
 GCAGCTGAAGAGAAGTCTGGGGTCCCATTCACGCTAAGGGCCGGGGGCTGCTCGAAAGATGGACACT
 ACAACCCCTCTCAAGGCATTCCGAAGCAAGCCCTTCCGAAGTCCCACCACACCCAGCGTCTTCAGTC
 CTTCTGGGAACCGGACTCCAATACCACCTTCGAGGACGCCACTGCAGAAAGAAAGGGGTGTGAAGCTGCT
 GGATATTTCTGAGCTGAATACAGTTGGTGTGGACGAGAGGCAAAGAGGAGGAGGAAGACTTTAGACACA
 GAAGTGGTAGAAAAGCCCAAGGAAGAGACGGTTGTTGAAAACGCTACCCCTGACTATGCTGCTGGCC
 TGGTATCCACACAGAACTTGGGTCTCTGAACAGTGAGCCAACTGCCCTCCACAAGTTACCTGCCCTC
 TACACCCAGTGTGGTACCTGCCTCATCTTACATCCCCAGCTCTGAGACTCCCCAGCTCCACCCTCTCGG
 GAAGCCAGCCGGCCACCTGAGGAACCCAGCGCTCCAAGTCCCACACTGCCAACACAGTTTAAACAAAGGG
 CACCTATGTATAACAGTGGCCTGAGCCAGCTACACCAGCACCTGCAGCACCTACCTCACCTCTGACACC
 TACTACTCCCCAGCTGTCACTCCTACTGCTCAGACACCTCCAGTGGCCATGGTGGCCCTCAGACCCAG
 GCTCCAGCCCTGTTCAGCAGCAACCTAAAAAGAACCTGTCCCTCACTAGAGAACAGATGTTTGTGCC
 AGGAGATGTTCAAGACGGCAACAAGGTCACTCGGCCGGAGAAGGCCCTCATCTGGGCTTCATGGCTGG
 CTCTCGAGAGAACCCATGCCCGGAGCAGGGGATGTGATCCAGATCAAGCTCAGTGAACACACAGAGGAT
 CTGCCCAAGGCAGACGGCCAGGGCAGTACCACCATGCTAGTGGACACAGTGTTCGAGATGAACACGCCA
 CAGGCCAGTGGACACGCTTCAAGAAGTACAAGCCTATGACCAATGTGTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR208491 protein sequence
 Red=Cloning site Green=Tags(s)

MASMRESDTGLWLNHKL GATDELWAPPSIASLLTAAVIDNIRLCFHRLSSAVKLKLLGLHLPRRTVDE
 MKAALMDIIQLATLSDPWVLMVADILKSFDPDTGSLNLDLEEQNPVNQDILGELREKVSECEASAMLPLE
 CQYLNKNALTTLAGPLTPPVKHFQLKRKPKSATLRAELLQKSTETAQQLKRSAGVPFHAKGRLLRKMDT
 TTPLKGIPKQAPFRSPTTPSVFSPSGNRTPIPPSRTPLQKERGVKLLDISELNTVGAGREARRRKTLDT
 EVVEKPTKEETVVENATPDYAAGLVSTQKLGSLNSEPTLPSTSYLPSTPSVVPASSYIPSETPPAPPSR
 EASRPPEEPSAPSTPLPTQFKQRAPMNSGLSPATPAPAAPTSPLTPTTPPAVTPTAQTTPPVAMVAPQTQ
 APAPVQQQPKKNLSLTREQMFAAQEMFKTANKVTRPEKALILGFMAGSRENPCPEQGDVIQIKLSEHTED
 LPKADGQGSTTMLVDTVFEMNYATGQWTRFKKYPMTNVS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_011914

ORF Size: 1590 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_011914.3](#)

RefSeq Size: 2162 bp

RefSeq ORF: 1593 bp

Locus ID: 24116

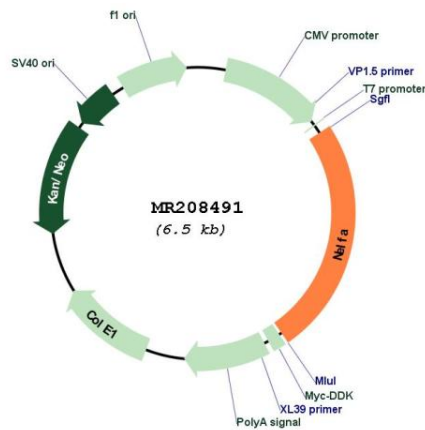
UniProt ID: [Q8BG30](#)

Cytogenetics: 5 B2

MW: 57.6 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).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208491