

## Product datasheet for **MR226717**

### **Nfe2l2 (NM\_010902) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nfe2l2 (NM_010902) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nfe2l2
Synonyms:	Nr; Nrf2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR226717 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGATGGACTTGGAGTTGCCACCGCCAGGACTACAGTCCCAGCAGGACATGGATTTGATTGACATCCTTT  
 GGAGGCAAGACATAGATCTTGGAGTAAGTCGAGAAGTGTGGACTTTAGTCAGCGACAGAAGGACTATGA  
 GCTGGAAAAACAGAAAAACTCGAAAAGGAAAGACAAGAGCAACTCCAGAAGGAACAGGAGAAGGCCTTT  
 TTTGCTCAGTTTCAACTGGATGAAGAAACAGGAGAATTCCTCCAATTCAGCCGGCCAGCACATCCAGA  
 CAGACACCAGTGGATCCGCCAGCTACTCCAGGTTGCCACATTCCTCAACAAGATGCCTTGTACTTTGA  
 AGACTGTATGCAGCTTTTGGCAGAGACATTCCTTTGTAGATGACCATGAGTCGCTTGCCTGGATATC  
 CCCAGCCACGCTGAAAGTTCAGTCTTCACTGCCCTCATCAGGCCAGTCCCTCAATAGCTCTCTGGAGG  
 CAGCCATGACTGATTTAAGCAGCATAGAGCAGGACATGGAGCAAGTTTGGCAGGAGCTATTTCCATTCC  
 CGAATTACAGTGTCTTAATACCGAAAACAAGCAGCTGGCTGATACTACCGCTGTTCCAGCCAGAAAGCC  
 ACACTGACAGAAATGGACAGCAATTACCATTTTTACTCATCGATCTCCTCGTGGAAAAAGAAAGTGGCA  
 ACTGTGGTCCACATTTCTTTCATGGTTTTGAGGATTTCTTCAGCAGCATCCTCTCCACTGATGATGCCAG  
 CCAGCTGACCTCCTTAGACTCAAATCCCACCTTAAACACAGATTTTGGCGATGAATTTATTCTGCTTTC  
 ATAGCAGAGCCCAGTGACGGTGGCAGCATGCCTTCTCCGCTGCCATCAGTCAGTCACTCTCTGAACTCC  
 TGGACGGGACTATTGAAGGCTGTGACCTGTCACTGTGTAAGCTTTCAACCCGAAGCAGCTGAAGGCAC  
 AATGGAATTCATGACTCTGACTCTGGCATTCTCACTGAACACGAGTCCCAGCCGAGCGTCCCAGAGCAC  
 TCCGTGGAGTCTTCCATTTACGGAGACCCACCGCTGGGTTCAAGTCACTGACTCGGAAATGGAGGAGTATA  
 GTGCCCCGGAAGTGTCAAACAGAACGGCCCTAAAGCACAGCCAGCACATTTCTCTGGAGACACAGTACA  
 GCCTCTGTCAACAGCTCAAGGGCACAGTGTCTTATGCGTGAATCCCAATGTGAAAAATACAACAAAAA  
 GAAGTTCCCGTGAAGTCTGGTCACTCAAAAAGCCCCATTCAAAAAGACAAACATTCAGCCGCTTAGAGG  
 CTCATCTCACACGAGATGAGCTTAGGGCAAAGCTCTCCATATTCCATTCCCTGTGAAAAAATCATTAA  
 CCTCCCTGTTGATGACTTCAATGAAATGATGTCCAAGGAGCAATTCATGAAGCTCAGCTCGATTGATC  
 CGAGATAACGCAGGAGAGGTAAGAATAAAGTCGCCGCCAGAACTGTAGGAAAAGGAGCTGGAGAACA  
 TTGTCGAGCTGGAGCAAGACTTTGGGCCACTTAAAAGACGAGAGAGAAAAACTACTCAGAGAAAAGGGAGA  
 AAACGACAGAAACCTCCATCTACTGAAAAGCGGCTCAGCACCTTGTATCTTGAAGTCTTACAGCATGTA  
 CGTGATGAGGATGAAAGCCTTACTCTCCAGTGAATACTCTCTGCAGCAAACAGAGATGGCAATGTG  
 TCCTTGTCCCAAAGCAAGAAGCCAGATACAAAGAAAAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR226717 protein sequence  
 Red=Cloning site Green=Tags(s)

MMDLELPPPLQSQQDMDLIDILWRQIDILGVSREVFDFSQRQKDYELEKQKLEKERQEQLQKEQEKAF  
 FAQFQLDEETGEFLPIQPAQHIQTDTSGSASYSQVAHIPKQDALYFEDCMQLLAETFPFVDDHESLALDI  
 PSHAESSVFTAPHQAQSLNSSLAAAMTDLSSIEQDMEQVWQELFSIPELQCLNTENKQLADTTAVPSPEA  
 TLTEMDSNYHFYSSISSLEKEVGNCGPHFLHGFEDSFSSILSTDDASQLTSLDSNPTLNTDFGDEFYSAF  
 IAEPDGGGMPSSAAISQSLSELLDGTIEGCDLSLCKAFNPKHAEGTMEFNDSGSLNTPSRASPEH  
 SVESSIYGDPPPFGSDSEMEELDSAPGSVKQNGPKAQPAPSPGDTVQPLSPAQGHSAAPMRESQCENTTK  
 EVPVSPGHQKAPFTKDKHSSRLEAHLTRDELRAKALHIPFPVEKIINLPVDDFNEMMSKEQFNEAQLALI  
 RIDIRRRGKNKVAQNCRRKLENIVELEQDLGHLKDEREKLLREKGENDRNLHLKRRRLSTLYLEVFSML  
 RDEDGKPYSPSEYSLQQTRDGNVFLVPKSKKPDTKKN

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_010902

**ORF Size:** 1791 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\\_010902.4](#)

**RefSeq Size:** 2469 bp

**RefSeq ORF:** 1794 bp

**Locus ID:** 18024

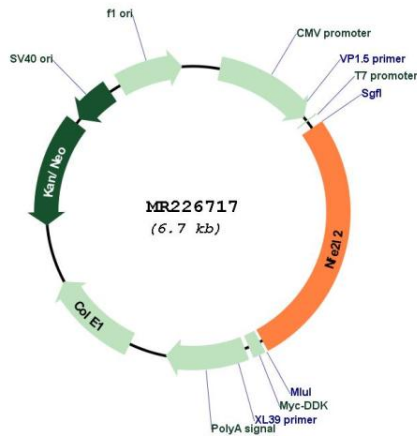
**UniProt ID:** [Q60795](#)

**Cytogenetics:** 2 44.75 cM

**MW:** 66.9 kDa

**Gene Summary:** This gene encodes a transcription factor which is a member of a small family of basic leucine zipper (bZIP) proteins. The encoded transcription factor regulates genes which contain antioxidant response elements (ARE) in their promoters; many of these genes encode proteins involved in response to injury and inflammation which includes the production of free radicals. [provided by RefSeq, Sep 2015]

**Product images:**



Circular map for MR226717