

## Product datasheet for **MC219509**

### **Nfe2l2 (NM\_010902) Mouse Untagged Clone**

#### **Product data:**

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



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Fully Sequenced ORF: >MC219509 representing NM\_010902  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCGCGATCGCC

ATGATGGACTTGGAGTTGCCACCGCCAGGACTACAGTCCCAGCAGGACATGGATTTGATTGACATCCTTT  
 GGAGGCAAGACATAGATCTTGGAGTAAGTCGAGAAGTGTTTGACTTTAGTCAGCGACAGAAGGACTATGA  
 GCTGGAACAAACAGAAAACTCGAAAAGGAAAGACAAGAGCAACTCCAGAAGGAACAGGAGAAGGCCTTT  
 TTTGCTCAGTTTCAACTGGATGAAGAAACAGGAGAATTCCTCCAATTCAGCCGGCCAGCACATCCAGA  
 CAGACACCAGTGGATCCGCCAGTACTCCAGGTTGCCACATTCCAAACAAGATGCCTTGTACTTTGA  
 AGACTGTATGCAGCTTTTGGCAGAGACATTCCTTTGTAGATGACCATGAGTCGCTTGCCTGGATATC  
 CCCAGCCACGCTGAAAGTTCAGTCTTCACTGCCCTCATCAGGCCAGTCCCTCAATAGCTCTCTGGAGG  
 CAGCCATGACTGATTTAAGCAGCATAGAGCAGGACATGGAGCAAGTTTGGCAGGAGCTATTTCCATTCC  
 CGAATTACAGTGTCTTAATACCGAAAACAAGCAGCTGGCTGATACTACCGCTGTTCCAGCCAGAAAGCC  
 ACACTGACAGAAATGGACAGCAATTACCATTTTTACTCATCGATCTCCTCGCTGGAAAAAGAAAGTGGGCA  
 ACTGTGGTCCACATTTCTTTCATGGTTTTGAGGATTCTTTTCAGCAGCATCCTCTCCACTGATGATGCCAG  
 CCAGCTGACCTCCTTAGACTCAAATCCCACCTTAAACACAGATTTTGGCGATGAATTTTATTCTGCTTTC  
 ATAGCAGAGCCCAGTGACGGTGGCAGCATGCCTTCTCCGCTGCCATCAGTCAGTCACTCTCTGAACTCC  
 TGGACGGGACTATTGAAGGCTGTGACCTGTCACTGTGTAAGCTTTCAACCCGAAGCAGCTGAAGGCAC  
 AATGGAATTCATGACTCTGACTCTGGCATTCTCACTGAACACGAGTCCCAGCCGAGCGTCCCAGAGCAC  
 TCCCTGGAGTCTTCCATTTACGGAGACCCAGCCTGGGTTCAAGTCAAGCAGCACATTTCTCTGGAGACACGTACA  
 GTGCCCCGGAAGTGTCAAACAGAACGGCCCTAAAGCACAGCCAGCACATTTCTCTGGAGACACAGTACA  
 GCCTCTGTCAACAGCTCAAGGGCACAGTGTCTCTATGCGTGAATCCCAATGTGAAAAATACAACAAAAA  
 GAAGTTCCCGTGAAGTCTGGTCAATCAAAAAGCCCATTCACAAAAGACAAACATTCAGCCGCTTAGAGG  
 CTCATCTCACACGAGATGAGCTTAGGGCAAAGCTCTCCATATTCATTCCCTGTGAAAAAATCATTAA  
 CCTCCCTGTTGATGACTTCAATGAAATGATGTCCAAGGAGCAATTCATGAAGCTCAGCTCGCATTGATC  
 CGAGATATACGCAGGAGAGGTAAGAATAAAGTCGCCGCCAGAACTGTAGGAAAAGGAAGCTGGAGAACA  
 TTGTCGAGCTGGAGCAAGACTTTGGGCCACTTAAAAGACGAGAGAGAAAACTACTCAGAGAAAAGGGAGA  
 AAACGACAGAACTCCATCTACTGAAAAGCGGCTCAGCACCTTGTATCTTGAAGTCTTCAGCATGTTA  
 CGTGATGAGGATGAAAGCCTTACTCTCCAGTGAATACTCTCTGCAGCAAACCAGAGATGGCAATGTGT  
 TCCTTGTTCACAAAAGCAAGAAGCCAGATACAAAGAAAAACTAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: [https://cdn.origene.com/chromatograms/ja1997\\_d06.zip](https://cdn.origene.com/chromatograms/ja1997_d06.zip)

Restriction Sites: Sgfl-Mlul

ACCN: NM\_010902

Insert Size: 1794 bp

**OTI Disclaimer:** Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

**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\\_010902.3](#), [NP\\_035032.1](#)

**RefSeq Size:** 2469 bp

**RefSeq ORF:** 1794 bp

**Locus ID:** 18024

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

**Cytogenetics:** 2 44.75 cM

**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]

Transcript Variant: This variant (1) encodes the protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.