

Product datasheet for **MG226717**

Nfe2l2 (NM_010902) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nfe2l2 (NM_010902) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nfe2l2
Synonyms:	Nr; Nrf2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG226717 representing NM_010902
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGATGGACTTGGAGTTGCCACCGCCAGGACTACAGTCCCAGCAGGACATGGATTTGATTGACATCCTTT
 GGAGGCAAGACATAGATCTTGGAGTAAGTCGAGAAGTGTGGACTTTAGTCAGCGACAGAAGGACTATGA
 GCTGGAACAAACAGAAAACTCGAAAAGGAAAGACAAGAGCAACTCCAGAAGGAACAGGAGAAGGCTTT
 TTTGCTCAGTTTCAACTGGATGAAGAAACAGGAGAATTCCTCCAATTCAGCCGGCCAGCACATCCAGA
 CAGACACCAGTGGATCCGCCAGCTACTCCAGGTTGCCACATTCCTCAACAAGATGCCTTGTACTTTGA
 AGACTGTATGCAGCTTTTGGCAGAGACATTCCTTTGTAGATGACCATGAGTCGCTTGCCTGGATATC
 CCCAGCCACGCTGAAAGTTCAGTCTTCACTGCCCTCATCAGGCCAGTCCCTCAATAGCTCTCTGGAGG
 CAGCCATGACTGATTTAAGCAGCATAGAGCAGGACATGGAGCAAGTTTGGCAGGAGCTATTTCCATTCC
 CGAATTACAGTGTCTTAATACCGAAAACAAGCAGCTGGCTGATACTACCGCTGTTCCAGCCAGAAAGCC
 ACACTGACAGAAATGGACAGCAATTACCATTTTTACTCATCGATCTCCTCGTGGAAAAAGAGTGGGCA
 ACTGTGGTCCACATTTCTTTCATGGTTTTGAGGATTCTTTTCAGCAGCATCCTCTCCACTGATGATGCCAG
 CCAGCTGACCTCCTTAGACTCAAATCCCACCTTAAACACAGATTTTGGCGATGAATTTTATTCTGCTTTC
 ATAGCAGAGCCCAGTACCGTGGCAGCATGCCTTCTCCGCTGCCATCAGTCAGTCACTCTCTGAACTCC
 TGGACGGGACTATTGAAGGCTGTGACCTGTCACTGTGTAAGCTTTCAACCCGAAGCAGCTGAAGGCAC
 AATGGAATTCATGACTCTGACTCTGGCATTCTCACTGAACACGAGTCCCAGCCGAGCGTCCCAGAGCAC
 TCCCTGGAGTCTTCCATTTACGGAGACCCACCGCTGGGTTCACTGACTCGGAAATGGAGGACATGATA
 GTGCCCCGGAAGTGTCAAACAGAACGGCCCTAAAGCACAGCAGCACATTTCTCTGGAGACAGTACA
 GCCTCTGTCAACAGCTCAAGGGCACAGTGTCTTATGCGTGAATCCCAATGTGAAAATACAACAAAAAAA
 GAAGTTCCCGTGAAGTCTGGTCACTCAAAAAGCCCATTCACAAAAGACAAACATTCAGCCGCTTAGAGG
 CTCATCTCACACGAGATGAGCTTAGGGCAAAAGCTCTCCATATTCCATTCCTGTGAAAAAATCATTAA
 CCTCCCTGTTGATGACTTCAATGAAATGATGTCCAAGGAGCAATTCATGAAGCTCAGCTCGATTGATC
 CGAGATATACGCAGGAGAGGTAAGAATAAAGTCGCCGCCAGAACTGTAGGAAAAGGAGCTGGAGAACA
 TTGTCGAGCTGGAGCAAGACTTTGGGCCACTTAAAAGACGAGAGAGAAAACTACTCAGAGAAAAGGGAGA
 AAACGACAGAAACCTCCATCTACTGAAAAGCGGCTCAGCACCTTGTATCTTGAAGTCTTACAGCATGTA
 CGTGATGAGGATGAAAGCCTTACTCTCCAGTGAATACTCTCTGCAGCAAAACCAGAGATGGCAATGTGT
 TCCTTGTTCCTCAAAAGCAAGAAGCCAGATACAAAGAAAAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG226717 representing NM_010902
 Red=Cloning site Green=Tags(s)

MMDLELPPPGLQSQQDMDLIDILWRQDIDLGVSRVDFDQSQRQDYELEKQKLEKERQEQLQKEQEKAF
 FAQFQLDEETGEFLPIQPAQHIQTDTSGSASYSQVAHIPKQDALYFEDCMQLLAETFPFVDDHESLALDI
 PSHAESSVFTAPHQAQSLNSSLLEAMTDLSSIEQDMEQVWQELFSIPELQCLNTENKQLADTTAVPSPEA
 TLTEMDSNYHFYSSISSLEKEVGNCGPHFLHGFEDSFSSILSTDDASQLTSLDSNPTLNTDFGDEFYSAF
 IAEPDGGSMPSAAISQSLSELLDGTIEGCDLSLCKAFNPKHAEGTMEFNDSDSGISLNTSPSRASPEH
 SVESSIYGDPPPFGFSDSEMEELDSAPGSVKQNGPKAQPAPSPGDTVQPLSPAQGHSAAPMRESQCENNTKK
 EVPVSPGHQKAPFTKDKHSSRLEAHLTRDELRAKALHIPFPVEKIINLPVDDFNEMMSKEQFNEAQLALI
 RDIRRRGKNKVAQNCRRKLENIVELEQDLGHLKDEREKLLREKGENDRNLHLLKRRRLSTLYLEVFSML
 RDEDGKPYSPSEYSLQQTRDGNVFLVPSKPKPDTKKN

TRTRPLE - GFP Tag - V

Chromatograms:

https://cdn.origene.com/chromatograms/ja1877_e06.zip

Restriction Sites:

Sgfl-Mlul

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

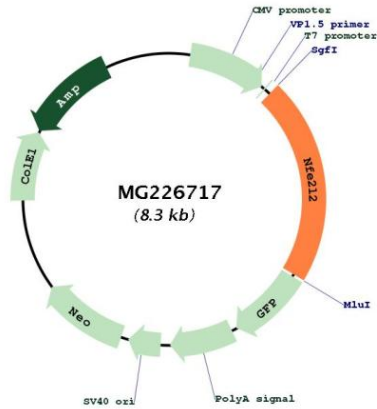
UniProt ID: [Q60795](#)

Cytogenetics: 2 44.75 cM

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 MG226717