

Product datasheet for **RR208510**

Nfe2l2 (NM_031789) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nfe2l2 (NM_031789) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nfe2l2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR208510 representing NM_031789
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATGGACTTGGAAATGCCACCGCCAGGACTACAGTCCCAGCAGGACATGGATTTGATTGACATCCTTT
 GGAGGCAAGACATAGATCTTGGGGTAAGTCGAGAAGTGTGGACTTTAGTCAGCGACAGAAGGATTATGA
 GCTGGAAAAACAGAAAAACTCGAAAAGGAGAGACAAGAGCAACTCCAGAAGGAACAGGAGAAGGCCTTT
 TTCGCTCAGTTACAACCTGGATGAAGAGACCGGAGAATTCCTCCAATTCAGCCAGCCAGCACATCCAGA
 CAGACACCAGTGGATCTGTCAGTACTCCAGGTTGCCACATTCCTCAACAAGATGCCTTGTACTTTGA
 AGACTGTATGCAGCTTTTGGCAGAGACATTCCTTTGTAGATGACCATGAGTCGCTTGCCTGGATATT
 CCCAGCCAGCTTGGAGCTCAGTCTTACCACCCTGATCAGGCTCAGTCACTCGATAGCTCTCTGGAGA
 CGGCCATGACTGATTTAAGCAGCATAACAGCAGGACATGGAGCAAGTTTGGCAGGAGCTATTTCCATTCC
 CGATTTACAGTGTCTTAATACGAAAAACAAGCAGCAGGCTGAGACTACCCTGTCCCAGCCAGAGGCC
 AACTGACAGAGATGGACAGCAATTACCATTTTTACTCATCGATCCCCTACTGGAAAAAGAAGTGACA
 GCTGTAGTCCACATTTCTTTCATGGTTTTGAGGATTCTTTTAGCAGCATCCTCTCCACGGATGATGCCAG
 CCAGCTGAACTCCTTAGACTCAAATCCCACCTGAACACAGATTTCCGGTATGAATTTACTCTGCTTTC
 CTAGCAGAGCCCAGTGGCGGTGGCAGCATGCCTTCTCTGCTGCCATTAGTCAGTCGCTCTCTGAACTTC
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 GTGCCCCGGAAGTGTCAAACAGAATGGACCTAAAGCACAGCCAACACATTTCTTGGGGATACAGTACA
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 CGAGATATACGCAGGAGAGGGAAGAATAAAGTTGCCGCTCAGAAGTGTAGGAAAAGGAGCTGGAAAAACA
 TTGTAGAGCTGGAGCAAGACTTTGGGCCACTTAAAAGACGAGAGAGAAAAACTACTCAGAGAAAAGGGAGA
 AAACGACAGAAACCTCCATCTTCTGAAAAGAAAACCTCAGCACTTTGTATCTGGAAGTCTTACAGCATGTA
 CGTGATGAGGATGGGAAACCTTACTCTCCAGTGAAGTACTCTCTGCAGCAGACCAGAGATGGCACGTGT
 TCCTTGTTCCTCAAGAGCAAGAAGCCAGATACAAAGAAAAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR208510 representing NM_031789
 Red=Cloning site Green=Tags(s)

MMDLELPPPLQSQQDMDLIDILWRQDIDLGVSRVDFDSQRQKDYELEKQKLEKERQEQLQKEQEKAF
 FAQLQLDEETGEFLPIQPAQHIQTDTSVSVSYVAHIPKQDALYFEDCMQLLAETFPFVDDHESLALDI
 PSHVSSVFTTPDQAQSLDSSLETAMTDLSSIQQDMEQVWQELFSIPELQCLNTENKQQAETTTVPSPA
 TLTEMDSNYHFYSSIPSLKEVDSCSPHFLHGFEDSFSSILSTDDASQLNSLDSNPTLNTDFGDEFYSAF
 LAEPSSGGSMPSAAISQSLSELLGGPIEGCDLSLCKAFNQKHTEGTVEFNDSDSGISLNTSPSRASPEH
 SVESSIYGDPPPFSSEMEELDSAPGSVKQNGPKAQPTHSSGDTVQPLSPAQGHSAVHESQCENNTTK
 EVPVSPGHQKVPFTKDKHSSRLEAHLTRDELRAKALHIPFPVEKIINLPVDDFNEMMSKEQFNEAQLALI
 RDIRRRRGNKVAQNCRRKLENIVELEQDLGHLKDEREKLLREKGENDRNHLHLKRKLSTLYLEVFSML
 RDEGKPYSPSEYSLQQTRDGNVFLVPKSKKPDTKKN

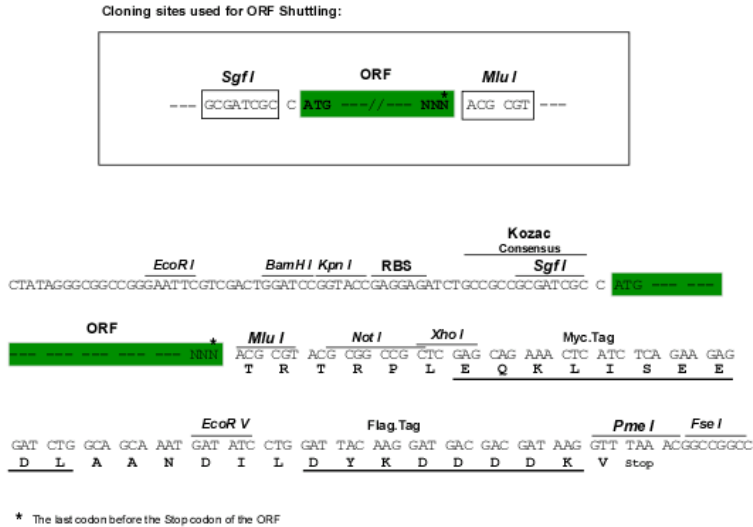
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja2284_b07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_031789

ORF Size: 1791 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 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](#)

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_031789.2](#), [NP_113977.1](#)

RefSeq Size: 2305 bp

RefSeq ORF: 1794 bp

Locus ID: 83619

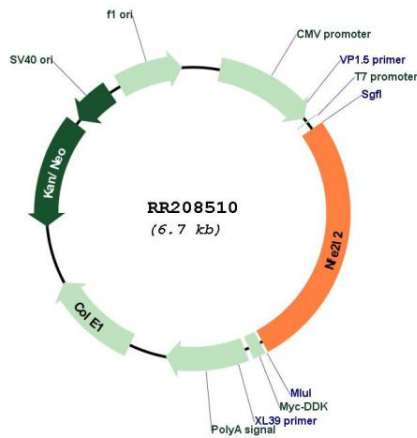
UniProt ID: [O54968](#)

Cytogenetics: 3q23

MW: 67 kDa

Gene Summary: a basic leucine zipper transcription factor; involved in activating expression of genes with an antioxidant response element (ARE) [RGD, Feb 2006]

Product images:



Circular map for RR208510