

Product datasheet for **MR226844**

Nfe2l1 (NM_001130454) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nfe2l1 (NM_001130454) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nfe2l1
Synonyms:	AA408798; AW212678; LCR-F1; Lcrf1; NRF1; TCF-11; TCF11
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR226844 representing NM_001130454
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGTGGGAGTCCCGACTCACTGCAGCTTCTGCGGATATTGATCTGGGGGCTGGGCGTAGGTTTTTG
 ACTACAGTCATCGCCAGAAGGAGCAGGATGTGGATAAGGAACTGCAAGATGGACGAGAACGAGAGGACAC
 CTGGTCAGGCGAGGGTGCAGGAACTCTGGCCCGAGACCTGCTAGTAGATGGAGAGACTGGGAGAGCTTC
 CCTGCACAGTTCCAGCTGACGTTTCCAGCATCCAGAAGCAGTGCCTAGTGAGAGTGAATCCCCGCC
 TTCAGAACAGCCTTCTATCTCTCTTCTGACGGGGACAGAATCACCATTGATTTGGAACAGCAGTGGCA
 AGATCTCATGTCCATCATGAAATGCAGGCTATGGAAGTAAATACATCAGCAAGTGAATTTGTACAAT
 GCCCTCTGGAGACCCTTAGCACCACTACAGCCTGCACCAACTCCCATCAATCAGAATGTCA
 GCCTGCATCAGGCGTCCCTGGGGGCTGCAGTCAGGACTTCTCCCTTTCAGCCCCGAGGTGGAGAGCT
 GCCTGTGGCTAGCAGCTCCACACTGCTTCCACTCGTCCCAGCAACTCCACCAGTCTCAACTCCACCTTT
 GGCTCTACCAACCTAGCAGGGCTTTTCTTCCATCCCAGCTCAATGGCACAGCCAATGACACATCAGGCC
 CTGAGCTACCTGACCCCTTGGGGGCTGTAGACGAAGCTATGCTGGATGAGATCAGCCTGATGGACCT
 GGCCATTGAGGAGGGCTCAACCCGGTGCAGGCTTCCCAGCTCGAAGAGGAGTTTACTCTGACTCAGGC
 CTCTCCTTGGACTCCAGCCATAGCCCTTCTCTGAGCAGCTCTGAAGGAGCTTCTTCTTCTCTCT
 CCTCCTTCTCTTCTGCTTCTCTCTGCTTCTTCTCTCTGAGGAGGGTGTGTTGGTTACAG
 CTCTGACTCTGAGACCCTAGACCTAGAAGAGGCTGAGGGTGCAGTGGCTACCAGCCGGAATACTCCAAG
 TTCTGCCGATGAGCTATCAGGATCCTTCTCAGCTCTCTTGCTTCCCTACTTAGAGCATGTGGCCACA
 ATCATAACAATATGGCACCCAGTCCCTTACTCTGCTGATCTACCACCACCCAGCCCTCAAGAA
 AGGTAGCAAGGAAAAGCAGGCTGACTTCTGGACAAGCAGATGAGCCGAGATGAGCACAGAGCCCGAGCC
 ATGAAGATCCATTACCAATGACAAGATCATCAACTGCCTGTAGAAGAATTCAATGAGCTGCTGTCCA
 AATACCAGCTGAGCGAGGCCAGCTCAGCCTCATCCGGGATATCCGGCGCCGGGGCAAAAACAAGATGGC
 TGCACAGAAGTCCGCAAGCGCAAGTTGGACACCATCCTAAACCTAGAAGTGTGAGGAGTTCGAG
 CGAGATAAGGCCGATTGCTTCGAGAAAAGGTAGAGTTCTTCCGTCTCTGCGACAGATGAAGCAGAAGG
 TCCAAAGCTTATACCAGGAGGTGTTGGGGCTGCGGGATGAGCATGGGAGGCCCTACTACCCAGTCA
 GTATGCCCTTCAATGCTGGGGATGGCAGTGTCTCTCATTCTCGCACGATGGCTGACCAGCAGGCT
 CGCGCACAGGAGAGAAAGCCAAAGGACCGGAGGAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR226844 representing NM_001130454
 Red=Cloning site Green=Tags(s)

MGWESRLTAASADIDLGAGREVDYSHRQKEQDVKELQDGREREDTWSGEGAEALARDLLVDGETGESF
 PAQFPADVSSIPEAVPSESESPALQNSLLSPLL TGTESPFDLEQQWQDLMSIMEMQAMEVNTSASEILYN
 APPGDPLSTNYS LAPNTPINQNVSLHQASLGCSQDFSLFSPEVESLPVASSSTLLPLVPSNSTSLNSTF
 GSTNLAGLFFPSQLNGTANDTSGPEL PDPLGGLLDEAMLDEISLMDLAIIEGFNPVQASQLEEFDSG
 LSLDSSHSPSSLSSSEGSSSSSSSSSSSSASSSASSFSEEGAVGYSSDSETLDLEEAEGAVGYQPEYSK
 FCRMSYQDPSQLSCLPYLEHVGHNHTYNMAPSALDSADLPPPSTLKKGSKEKQADFLDKQMSRDEHRARA
 MKIPFTNDKIINLPVEEFNELL SKYQLSEAQLSLIRDIRRRGKNKMAAQNCRKRKLDILNLERDVEDLQ
 RDKARLLREKVEFLRSLRQMKQKVQSLYQEVFGRRLRDEHGRPYSPSYALQYAGDGSVLLIPRTMADQQA
 RRQERKPKDRRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

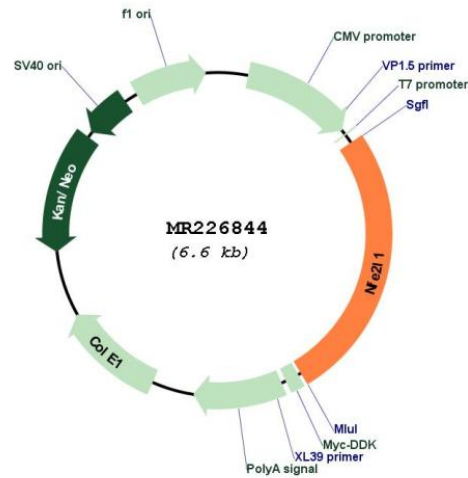
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_001130454

ORF Size: 1716 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:	<ol style="list-style-type: none">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_001130454.1 , NP_001123926.1
RefSeq Size:	3514 bp
RefSeq ORF:	1719 bp
Locus ID:	18023
Cytogenetics:	11 60.12 cM
MW:	63.3 kDa
Gene Summary:	This gene encodes a protein that is involved in globin gene expression in erythrocytes. Confusion has occurred in bibliographic databases from the use of NRF1 for this gene, NFE2L1, and for "nuclear respiratory factor 1" which has an official symbol of NRF1. [provided by RefSeq, Jul 2008]