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Product datasheet for MR226828

Nfe2l1 (NM_008686) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nfe2l1 (NM_008686) 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

ORF Nucleotide Sequence:

>MR226828 representing NM_008686
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTTTCTCTGAAGAAATATTTAACGGAAGGACTTCTCCAGTTCACCATCCTGCTGAGTCTGATTGGGG
TTCGGGTGGACGTGGATACTTACCTGACCTCACAGCTCCCCCCTCTCCGGGAGATCATCCTGGGGCCCAG
CTCTGCCTATACCCAGACCCAGTTCCACAACCTGAGGAATACCTTGGATGGCTATGGGATCCACCCCAAG
AGCATAGACCTGGACAATTACTTCACTGCCCGGCGGCTCCTTAGTCAGGTGAGGGCCCTGGATAGGTTCC
AGGTGCCTACCACTGAGGTCAATGCTTGGCTGGTCCACCGAGACCCGGAGGGGTCTGTCTCTGGCAGCCA
GCCCAACTCAGGCCTCGCCCTCGAGAGTTCCAGTGGCCTCCAAGATGTGACAGGCCCAGACAACGGGGTG
AGAGAAAGCGAAACGGAGCAGGGATTCGGTGAAGATTTGGAGGACCTGGGGGCTGTAGCCCCTCCTGTCA
GTGGAGACTTAACCAAAGAGGATATAGATCTGATTGACATCCTTTGGCGACAGGATATTGATCTGGGGGC
TGGGCGTGAGGTTTTTGACTACAGTCATCGCCAGAAGGAGCAGGATGTGGATAAGGAACTGCAAGATGGA
CGAGAACGAGAGGACACCTGGTCAGGCGAGGGTGCGGAAGCTCTGGCCCGAGACCTGCTAGTAGATGGAG
AGACTGGGGAGAGCTTCCCTGCACAGTTCCCAGCTGACGTTTCCAGCATCCCAGAAGCAGTGCCTAGTGA
GAGTGAGTCCCCCGCCCTTCAGAACAGCCTTCTATCTCCTCTTCTGACGGGGACAGAATCACCATTTGAT
TTGGAACAGCAGTGGCAAGATCTCATGTCCATCATGGAAATGCAGGCTATGGAAGTAAATACATCAGCAA
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CATCAATCAGAATGTCAGCCTGCATCAGGCGTCCCTGGGGGGCTGCAGTCAGGACTTCTCCCTCTTCAGC
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GTCTCAACTCCACCTTTGGCTCTACCAACCTAGCAGGGCTTTTCTTTCCATCCCAGCTCAATGGCACAGC
CAATGACACATCAGGCCCTGAGCTACCTGACCCCCTTGGGGGCCTGTTAGACGAAGCTATGCTGGATGAG
ATCAGCCTGATGGACCTGGCCATTGAGGAGGGCTTCAACCCGGTGCAGGCTTCCCAGCTCGAAGAGGAGT
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CTCTTCTTCTTCCTCCTCCTCCTCTTCCTCTTCTGCTTCCTCCTCTGCCTCTTCTTCCTTCTCTGAGGAG
GGTGCTGTTGGTTACAGCTCTGACTCTGAGACCCTAGACCTAGAAGAGGCTGAGGGTGCAGTGGGCTACC
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CAATGAGCTGCTGTCCAAATACCAGCTGAGCGAGGCCCAGCTCAGCCTCATCCGGGATATCCGGCGCCGG
GGCAAAAACAAGATGGCTGCACAGAACTGCCGCAAGCGCAAGTTGGACACCATCCTAAACCTAGAACGTG
ATGTGGAGGACTTGCAGCGAGATAAGGCCCGATTGCTTCGAGAAAAGGTAGAGTTCCTTCGGTCTCTGCG
ACAGATGAAGCAGAAGGTCCAAAGCTTATACCAGGAGGTGTTTGGGCGGCTGCGGGATGAGCATGGGAGG
CCCTACTCACCCAGTCAGTATGCCCTTCAGTATGCTGGGGATGGCAGTGTCCTCCTCATTCCTCGCACGA
TGGCTGACCAGCAGGCTCGGCGACAGGAGAGAAAGCCAAAGGACCGGAGGAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

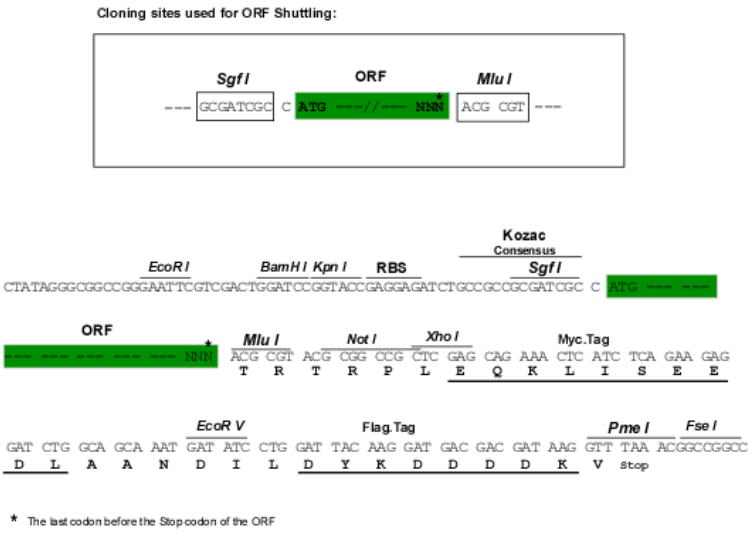
>MR226828 representing NM_008686
Red=Cloning site Green=Tags(s)

MLSLKKYLTEGLLQFTILLSLIGVRVDVDTYLTSQLPPLREIILGPSSAYTQTQFHNLRNTLDGYGIHPK
SIDLDNYFTARRLLSQVRALDRFQVPTTEVNAWLVHRDPEGSVSGSQPNSGLALESSSGLQDVTGPDNGV
RESETEQGFGEDLEDLGAVAPPVSGDLTKEDIDLIDILWRQDIDLGAGREVFDYSHRQKEQDVDKELQDG
REREDTWSGEGAEALARDLLVDGETGESFPAQFPADVSSIPEAVPSESESPALQNSLLSPLLTGTESPFD
LEQQWQDLMSIMEMQAMEVNTSASEILYNAPPGDPLSTNYSLAPNTPINQNVSLHQASLGGCSQDFSLFS
PEVESLPVASSSTLLPLVPSNSTSLNSTFGSTNLAGLFFPSQLNGTANDTSGPELPDPLGGLLDEAMLDE
ISLMDLAIEEGFNPVQASQLEEEFDSDSGLSLDSSHSPSSLSSSEGSSSSSSSSSSSASSSASSSFSEE
GAVGYSSDSETLDLEEAEGAVGYQPEYSKFCRMSYQDPSQLSCLPYLEHVGHNHTYNMAPSALDSADLPP
PSTLKKGSKEKQADFLDKQMSRDEHRARAMKIPFTNDKIINLPVEEFNELLSKYQLSEAQLSLIRDIRRR
GKNKMAAQNCRKRKLDTILNLERDVEDLQRDKARLLREKVEFLRSLRQMKQKVQSLYQEVFGRLRDEHGR
PYSPSQYALQYAGDGSVLLIPRTMADQQARRQERKPKDRRK

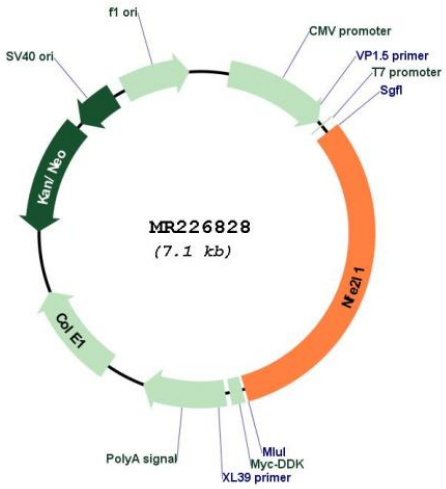
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:	NM_008686
ORF Size:	2223 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_008686.3, NP_032712.2
RefSeq Size:	4654 bp
RefSeq ORF:	2226 bp
Locus ID:	18023

UniProt ID:	Q61985
Cytogenetics:	11 60.12 cM
MW:	82 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]