

Product datasheet for **RC226689**

Nrf2 (NFE2L2) (NM_001145413) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nrf2 (NFE2L2) (NM_001145413) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nrf2
Synonyms:	HEBP1; IMDDHH; Nrf-2; NRF2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC226689 representing NM_001145413
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGATTTGATTGACATACTTTGGAGGCAAGATATAGATCTTGGAGTAAGTCGAGAAGTATTTGACTTCA
 GTCAGCGACGAAAGAGTATGAGCTGGAAAAACAGAAAAAATTGAAAAGGAAAGACAAGAACAACCTCCA
 AAAGGAGCAAGAGAAAGCCTTTTTTCGCTCAGTTACAACACTAGATGAAGAGACAGGTGAATTTCTCCAATT
 CAGCCAGCCAGCACATCCAGTCAGAAACCAGTGGATCTGCCAACTACTCCAGGTTGCCACATTTCCCA
 AATCAGATGCTTTGACTTTGATGACTGCATGCAGCTTTTGGCGCAGACATTCGCTTTGTAGATGACAA
 TGAGTCACTTGTCTGATATTCGCGTACATCGAGAGCCAGTCTTATTGCTACTAATCAGGCTCAG
 TCACCTGAAACTTCTGTTGCTCAGGTAGCCCTGTTGATTTAGACGGTATGCAACAGGACATTGAGCAAG
 TTTGGGAGGAGCTATTATCCATTCTGAGTTACAGTGTCTTAATATTGAAAATGACAAGCTGGTTGAGAC
 TACCATGGTTCCAAGTCCAGAAGCCAACTGACAGAAGTTGACAATTATCATTCTTACTCATCTATACCC
 TCAATGGAAAAAGAGTAGGTAAGTGTAGTCCACATTTTCTTAATGCTTTTGAGGATTCCTTCAGCAGCA
 TCCTCTCCACAGAAGACCCCAACCAAGTTGACAGTGAACCTATTAATTCAGATGCCACAGTCAACACAGA
 TTTTGGTGATGAATTTTATTCTGCTTTCATAGCTGAGCCCAAGTATCAGCAACAGCATGCCCTCACCTGCT
 ACTTTAAGCCATTCACCTCTGAACTTCTAAATGGGCCATTGATGTTTCTGATCTATCACTTTGCAAAAG
 CTTTCAACCAAAACCACCTGAAAGCACAGCAGAATTCATGATTCTGACTCCGGCATTCTACTAAACAC
 AAGTCCCAGTGTGGCATCACCAGAACACTCAGTGAATCTCCAGCTATGGAGACACACTACTTGGCCTC
 AGTATTCTGAAGTGAAGAGCTAGATAGTCCCCTGGAAGTGTCAAACAGAATGGTCTAAAACACCCAG
 TACACTTCTGGGATATGGTACAACCTTGTACCATCTCAGGGGCAGAGCACTCATGATGATGC
 CCAATGTGAGAACACACCAGAGAAAGAATTGCCTGTAAGTCTGTCATCGGAAAACCCATTACAAAA
 GACAAACATTCAAGCCGCTTGGAGGCTCATCTCAAGAGATGAACCTAGGGCAAAAGCTCTCCATATCC
 CATTCCCTGTAGAAAAATCATTAACTCCCTGTTGTTGACTTCAACGAAATGATGTCCAAAGAGCAGTT
 CAATGAAGCTCAACTGCATTAATTCGGGATATACGTAGGAGGGTAAGAATAAAGTGGCTGCTCAGAAT
 TGCAGAAAAAGAAAAGTGGAAAATATAGTAGAACTAGAGCAAGATTTAGATCATTGAAAGATGAAAAAG
 AAAAATGCTCAAAGAAAAGGAGAAAATGACAAAAGCCTTACCTACTGAAAAACAACACTCAGCACCTT
 ATATCTCGAAGTTTTAGCATGCTACGTGATGAAGATGGAAAACCTTATCTCCTAGTGAATACTCCCTG
 CAGCAAAACAGAGATGGCAATGTTTTCTTGTCCAAAAGTAAGAAGCCAGATGTTAAGAAAAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC226689 representing NM_001145413
 Red=Cloning site Green=Tags(s)

MDLIDILWRQDIDLGVSRVDFDVSRRKEYELEKQKLEKERQEQLQKEQEKAFFAQLQLDEETGEFLPI
 QPAQHIQSETSGSANYSQVAHIPKSDALYFDDCMQLLAQTFFVDDNESLVPDIPGHIESPVFIATNQAQ
 SPETSVAQVAPVDLDGMQQDIEQVWEELLSIPELQCLNIENDKL VETTMVPSPEAKL TEVDNYHFYSSIP
 SMEKEVGNCSPHFLNAFEDSFSSILSTEDPNQLTVNSLNSDATVNTDFGDEFYSAFIAEPSISNSMPSPA
 TLSHSLSELLNGPIDVSDL SLCKAFNQNHPESTAEFNDSDSGISLNTSPSVASPEHSVSESSYGDLLGL
 SDSEVEELDSAPGSVKQNGPKTPVHSSGDMVQPLSPSQGQSTHVHDAQCENTPEKELPVSPGHRKTPFTK
 DKHSSRLEAHLTRDELRAKALHIPFPVEKIINLPVVDFNEMMSKEQFNEAQLALIRDIRRRGKKNVAAQN
 CRKRKLENIVELEQDLHLKDEKEKLLKEKGENDKSLHLLKQLSTLYLEVFSMLRDEDGKPYSPSEYSL
 QQTRDGNVFLVPKSKKPDVKKK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8068_d01.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_001145413

ORF Size: 1746 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_001145413.3](#)

RefSeq ORF: 1749 bp

Locus ID: 4780

UniProt ID: [Q16236](#)

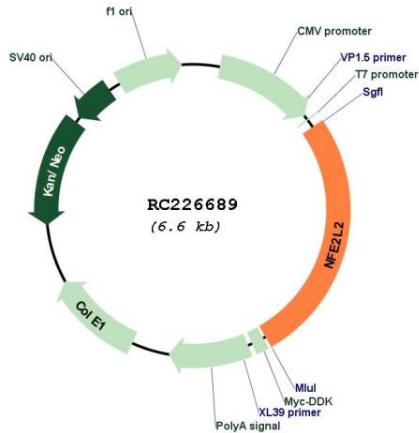
Cytogenetics: 2q31.2

Protein Families: Transcription Factors

MW: 65.2 kDa

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. Multiple transcript variants encoding different isoforms have been characterized for this gene. [provided by RefSeq, Sep 2015]

Product images:



Circular map for RC226689