

## Product datasheet for **SC116283**

### **Nrf2 (NFE2L2) (NM\_006164) Human Untagged Clone**

#### **Product data:**

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                            |
| Product Name:             | Nrf2 (NFE2L2) (NM_006164) Human Untagged Clone |
| Tag:                      | Tag Free                                       |
| Symbol:                   | Nrf2   |
| Synonyms:                 | HEBP1; IMDDHH; Nrf-2; NRF2                     |
| Mammalian Cell Selection: | None   |
| Vector:                   | <u><a href="#">pCMV6-XL5</a></u>               |
| E. coli Selection:        | Ampicillin (100 ug/mL)                         |



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**Fully Sequenced ORF:** >OriGene ORF within SC116283 sequence for NM\_006164 edited (data generated by NextGen Sequencing)

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ATGATGGACTTGGAGCTGCCGCCCGGGACTCCCGTCCCAGCAGGACATGGATTTGATT
GACATACTTTGGAGGCAAGATATAGATCTTGGAGTAAGTCGAGAAGTATTTGACTTCAGT
CAGCGACGGAAAGAGTATGAGCTGGAAAAACAGAAAAAATTGAAAAGGAAAGACAAGAA
CAACTCCAAAAGGAGCAAGAGAAAAGCCTTTTTCGCTCAGTTACAACCTAGATGAAGAGACA
GGTGAATTTCTCCAATTCAGCCAGCCAGCACATCCAGTCAGAAACCAGTGGATCTGCC
AACTACTCCAGGTTGCCACATTCCCAAATCAGATGCTTTGACTTTGATGACTGCATG
CAGCTTTTGGCGCAGACATTTCCCGTTTGTAGATGACAATGAGGTTTCTTCGGCTACGTTT
CAGTCACTTGTTCTGATATTCCCGGTCACATCGAGAGCCAGTCTTCATTGCTACTAAT
CAGGCTCAGTCACCTGAAACTTCTGTTGCTCAGGTAGCCCTGTTGATTTAGACGGTATG
CAACAGGACATTGAGCAAGTTTGGGAGGAGCTATTATCCATTCTGAGTTACAGTGTCTT
AATATTGAAAATGACAAGCTGGTTGAGACTACCATGGTTCCAAGTCCAGAAGCCAAACTG
ACAGAAGTTGACAATTATCATTTTTACTCATCTATACCCTCAATGAAAAAGAAGTAGGT
AACTGTAGTCCACATTTTCTTAATGCTTTTGGAGATTCTTCAGCAGCATCCTCTCCACA
GAAGACCCCAACCAGTTGACAGTGAACCTATAAATTCAGATGCCACAGTCAACACAGAT
TTTGGTGAATTTTATTCTGCTTTCATAGCTGAGCCAGTATCAGCAACAGCATGCC
TCACCTGCTACTTTAAGCCATTCCTCTGAACCTTCTAAATGGGCCATTGATGTTTCT
GATCTATCACTTTGCAAAGCTTTCAACCAAAACCACCTGAAAGCACAGCAGAATTCAAT
GATTCTGACTCCGGCATTTCCTAAACACAAGTCCCAGTGGCATCACCAGAACACTCA
GTGGAATCTTCCAGCTATGGAGACACACTACTTGGCCTCAGTGATTCTGAAGTGGAAAG
CTAGATAGTGCCCTGGAAGTGTCAAACAGAATGGTCTAAAACACCAGTACATTTCTT
GGGGATATGGTACAACCCTTGTACCATCTCAGGGGCAGAGCACTCAGTGCATGATGCC
CAATGTGAGAACACACCAGAGAAAAGAATTGCCTGTAAGTCTGGTCATCGGAAAACCCCA
TTCACAAAAGACAACATTCAAGCCGCTTGGAGGCTCATCTCACAAAGAGATGAACTTAGG
GCAAAAGCTCTCCATATCCCATTCCTGTAGAAAAATCATTAACTCCCTGTTGTTGAC
TTCAACGAAATGATGTCCAAGAGCAGTCAATGAAGCTCAACTTGCAATTAATTCGGGAT
ATACGTAGGAGGGTAAGAATAAAGTGGCTGCTCAGAATTGCAGAAAAAGAAAATGGAA
AATATAGTAGAACTAGAGCAAGATTTAGATCATTTGAAAGATGAAAAAGAAAAATTGCTC
AAAGAAAAAGGAGAAAAATGACAAAAGCCTTCACCTACTGAAAAACAACCTCAGCACCTTA
TATCTCGAAGTTTTCAGCATGCTACGTGATGAAGATGGAAAACCTTATTCTCCTAGTGAA
TACTCCCTGCAGCAACAAGAGATGGCAATGTTTTCTTGTTCCTCCAAAAGTAAGAAGCCA
GATGTTAAGAAAACTAG
    
```

Clone variation with respect to NM\_006164.3

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_006164 unedited  
 ATTTTGTATACGACTCACTATAGCGCGCCGCAATTTCGGCACGAGGGGAGCCCGGAGGA  
 GCCGCGACGCAGCCGCCACCGCCGCGCCGCCACCAGAGCCGCCCTGTCCGCGCCGCGC  
 CTCGGCAGCCGGAACAGGGCCGCGTCCGGGAGCCCAACACACGGTCCACAGCTCATCA  
 TGATGGACTTGGAGCTGCCGCGCCGGGACTCCCGTCCCAGCAGGACATGGATTTGATTG  
 ACATACTTTGGAGCAAGATATAGATCTTGGAGTAAGTCGAGAAGTATTTGACTTCAGTC  
 AGCGACGAAAGAGTATGAGCTGGAAAAACAGAAAAAATTGAAAAGGAAAGACAAGAAC  
 AACTCCAAAAGGAGCAAGAGAAAAGCCTTTTTTCGCTCAGTTACAACCTAGATGAAGAGACAG  
 GTGAATTTCTCCAATTCAGCCAGCCAGCACATCCAGTCAGAAAACAGTGGATCTGCCA  
 ACTACTCCAGGTTGCCACATCCCAAATCAGATGCTTTGACTTTGATGACTGCATGC  
 AGCTTTTGGCGCAGACATCCCGTTTGTAGATGACAATGAGGTTTCTTCGGCTACGTTTC  
 AGTCACCTGTTCTGATATCCCGGTCACATCGAGAGCCAGTCTTCATTGCTACTAATC  
 AGGCTCAGTCACCTGAACTTCTGTTGCTCAGGTAGCCCTGTTGATTTAGACGGTATGC  
 AACAGGACATTGNAGCAGTTGGNGAGGAGCTATTATCCATTCCTGAGTTACAGTGTCTTA  
 ATATTGAAAATNGACAGCTGGTTGAGACTACCATGGTTNCNAGTCCAGAAGCCAACTGA  
 CAGAAAAGTGACANTNATCAATTTTACTCATCTATACCCCTCATGGGANAAGAAGTANNGT  
 ACTGTAGTCCACATTTTCTTATGCTTNTGAG

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_006164 unedited  
 NNNCCCTCTATGNNACCGCGCCGCTATCTAGNATCGAGTTTTTTTTTTTTTTTTTTTTT  
 TAACAGTCATAAATCCTTTATTAGTACCAGCTCTAAAATTTTTTTTTTTTGGCAGAG  
 CTAACAATTTAATATAAAAAATGCCATTTTTTGTCCATACAGTATTTATAAAAAAGTAC  
 ATAGTGGTTAGTTTTGAATAATTTCTTTTTAGCCAGATGCATATCATATATAAATCT  
 ATGAATATAACAAATGACATAAGAACAGTATAAATAAGTTTTTGTAGTATTTACACTTAC  
 ACAGAACTAGCCCAAATGGTGTCTTAAGAAATGTTTACAGTAAAGTAAACTACTGA  
 TTCAACATACTGACACTCCAATGCTTTTTAAAGTTTCGTATTATTTCTATACTAGTTTT  
 GGCTATGATTTTGCATAGAATTACTTATAAAGTATGAGCATTTCCATCACAGTAGGAGC  
 TTTTAGTATATTAGTACAAAAACTAGCTCAGAAAAGTCAAATCCCTAATCTAGTTTT  
 TCTAACACTGGCTCCTACTTTGGGGACAGGAAAAACTGCCTTTTTTGTGCTGCAGG  
 AGGTTTCCCTTAGGAAAAAGGTTCCCTCTTACTCAGGAACAGGCTGAAAATTCGAGAA  
 TAAGGGGCTGGTTGGTTTTCCGGGGGAAGGCTTTTGGAAATTTCCCTTTCTTTGGGGC  
 AATTTTTTTTTTACTTTAAAAAGGCCAAAAACGGGCAAGGCCCAAAATTTCCAGGTTT  
 CTTTTTTTGGGAATTGGAAGACCCTTTTTTTTTCCCCCTCTTTTTCCAAATAAAGCA  
 AGGGGGGCTTTGGGACCCTTTGGGCAATATTTTGAAAA

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_006164

**Insert Size:**

1818 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_006164.2](#), [NP\\_006155.2](#)

**RefSeq Size:** 2439 bp

**RefSeq ORF:** 1818 bp

**Locus ID:** 4780

**UniProt ID:** [Q16236](#)

**Cytogenetics:** 2q31.2

**Domains:** BRLZ

**Protein Families:** Transcription Factors

**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]  
Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.