

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>pCMV6-XL5</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
AACTACTCCAGGTTGCCACATTCCCAAATCAGATGCTTTGTACTTTGATGACTGCATG
CAGCTTTTGGCGCAGACATTTCCCGTTTGTAGATGACAATGAGGTTTCTTCGGCTACGTTT
CAGTCACTTGTTCCTGATATTCCCGGTCACATCGAGAGCCAGTCTTCATTGCTACTAAT
CAGGCTCAGTCACCTGAAACTTCTGTTGCTCAGGTAGCCCTGTTGATTTAGACGGTATG
CAACAGGACATTGAGCAAGTTTGGGAGGAGCTATTATCCATTCTGAGTTACAGTGTCTT
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ACAGAAGTTGACAATTATCATTTTTACTCATCTATACCCTCAATGAAAAAGAAGTAGGT
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GAAGACCCCAACCAGTTGACAGTGAACCTATAAATTCAGATGCCACAGTCAACACAGAT
TTTGGTGAATTTTATTCTGCTTTCATAGCTGAGCCAGTATCAGCAACAGCATGCC
TCACCTGCTACTTTAAGCCATTCCTCTGAACCTTCTAAATGGGCCATTGATGTTTCT
GATCTATCACTTTGCAAAGCTTTCAACCAAAACCACCCTGAAAGCACAGCAGAATTCAAT
GATTCTGACTCCGGCATTTCCTAAACACAAGTCCCAGTGGCATCACCAGAACACTCA
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GGGGATATGGTACAACCCTTGTACCATCTCAGGGGCAGAGCACTCACGTGCATGATGCC
CAATGTGAGAACACACCAGAGAAAAGAATTGCCTGTAAGTCTGGTCATCGGAAAACCCCA
TTCAAAAAGACAACATTCAAGCCGCTTGGAGGCTCATCTCACAAGAGATGAACTTAGG
GCAAAAGCTCTCCATATCCCATTCCCTGTAGAAAAATCATTAACTCCCTGTTGTTGAC
TTCAACGAAATGATGTCCAAGAGCAGTTCAATGAAGCTCAACTTGCAATTAATTCGGGAT
ATACGTAGGAGGGTAAGAATAAAGTGGCTGCTCAGAATTGCAGAAAAAGAAAATGGAA
AATATAGTAGAACTAGAGCAAGATTTAGATCATTTGAAAGATGAAAAAGAAAAATGCTC
AAAGAAAAAGGAGAAAAATGACAAAAGCCTTACCTACTGAAAAACAACCTCAGCACCTTA
TATCTCGAAGTTTTCAGCATGCTACGTGATGAAGATGGAAAACCTTATTCTCCTAGTGAA
TACTCCCTGCAGCAACAAGAGATGGCAATGTTTTCTTGTTCCTCCAAAAGTAAGAAGCCA
GATGTTAAGAAAACTAG
    
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Clone variation with respect to NM_006164.3

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_006164 unedited</p> <pre> ATTTTGTATACGACTCACTATAGCGCGCCGCAATTCGGCACGAGGGGAGCCCGGAGGA GCCGCGACGCAGCCGCCACCGCCGCCGCCACCAGAGCCGCCCTGTCCGCGCCGCGC CTCGGCAGCCGGAACAGGGCCCGCTCGGGGAGCCCAACACACGGTCCACAGCTCATCA TGATGGACTTGGAGCTGCCGCCCGGGACTCCCGTCCCAGCAGGACATGGATTTGATTG ACATACTTTGGAGCAAGATATAGATCTTGGAGTAAGTCGAGAAGTATTTGACTTCAGTC AGCGCAGAAAGAGTATGAGCTGGAAAAACAGAAAAAATTGAAAAGGAAAGACAAGAAC AACTCCAAAAGGAGCAAGAGAAAAGCCTTTTTTCGCTCAGTTACAACCTAGATGAAGAGACAG GTGAATTTCTCCAATTCAGCCAGCCAGCACATCCAGTCAGAAAACAGTGGATCTGCCA ACTACTCCAGGTTGCCACATTCCTAAAATCAGATGCTTTGACTTTGATGACTGCATGC AGCTTTTGGCGCAGACATTCCTGTTTGTAGATGACAATGAGGTTTCTTCGGCTACGTTTC AGTCACCTGTTTCTGATATTCCTGGTCACATCGAGAGCCAGTCTTCATTGCTACTAATC AGGCTCAGTCACCTGAACTTCTGTTGCTCAGGTAGCCCTGTTGATTTAGACGGTATGC AACAGGACATTGNAGCAGTTGGNGAGGAGCTATTATCCATTCCTGAGTTACAGTGTCTTA ATATTGAAAATNGACAGCTGGTTGAGACTACCATGGTTNCNAGTCCAGAAGCCAACTGA CAGAAAAGTGACANTNATCAATTTTACTCATCTATACCCCTCATGGGANAAGAAGTANNGT ACTGTAGTCCACATTTTCTTATGCTTNTGAG </pre>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_006164 unedited</p> <pre> NNNCCCTCTATGNNACCGCGCCGCTATCTAGNATCGAGTTTTTTTTTTTTTTTTTTTTT TAACAGTCATAAATCCCTTTATTAGTACCAGCTCTTAAAATTTTTTTTTTTTGGCAGAG CTAAACAATTTAATATAAAAAATGCCATTTTTTGTCCATACAGTATTTATAAAAAAGTAC ATAGTGGTTAGTTTTGAATAATTTCTTTTTAGCCAGATGTCATATCATATATAAATCT ATGAATATAACAAATGACATAAGAACAGTATAAATAAGTTTTTGTAGTATTACACTTAC ACAGAACTAGCCCAAATGGTGTCTTAAGAAATTTTACAGTAAAGTAAAGTAACTACTGA TTCAACATACTGACACTCCAATGCTTTTTAAAGTTTCGTATTATTTCTATACTAGTTTT GGCTATGATTTTGCATAGAATTACTTATAAAGTATGAGCATTTCCATCAGTAGGAGC TTTTAGTATATTAGTACAAAAAAGTCTCAGAAAAGTCAAATCCCTAATCTAGTTTT TCTAACACTGGCTCCTACTTTGGGGACAGGAAAAACTGCCTTTTTTGTGTTGCTGCAGG AGGTTTCCCTTAGGAAAAAGGTTCCCTCTTACTCAGGAACAGGCTGAAAATTCGAGAA TAAGGGGCTGGTTGGTTTTTCCGGGGGAAGGCTTTTGGAAATTTCCCTTTCTTTGGGGC AATTTTTTTTTTACTTTAAAAAGGCCAAAAACGGGCCAAGGCCCAAAATTTCCAGGTTT CTTTTTTGGGAATTGGAAGACCCTTTTTTTTTCCCCCTCTTTTTCCAAATAAAGCA AGGGGGGCTTTGGGACCCTTTGGGCAAAATTTTTGAAAA </pre>
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.

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.