

Product datasheet for **SC117004**

NRF1 (NM_005011) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NRF1 (NM_005011) Human Untagged Clone
Tag:	Tag Free
Symbol:	NRF1
Synonyms:	ALPHA-PAL
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_005011, the custom clone sequence may differ by one or more nucleotides

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ATGGAGGAACACGGAGTGACCCAAACCGAACATATGGCTACCATAGAAGCACATGCAGTGGCCAGCAAG
TGCAGCAGGTCCATGTGGCTACTTACACCGAGCATAGTATGCTGAGTGTGATGAAGACTCGCCTTCTTC
TCCCGAGGACACCTCTTACGATGACTCAGATATACTCAACTCCACAGCAGCTGATGAGGTGACAGCTCAT
CTGGCAGCTGCAGGTCTGTGGGAATGGCCGCTGCTGCTGTGGCAACAGGAAAGAAACGAAACGGC
CTCATGTATTTGAGTCTAATCCATCTATCCGGAAGAGGCAACAAACACGTTTGTCTCGGAAACTTCGAGC
CACGTTAGATGAATATACTACTCGTGTGGGACAGCAAGCTATTGTCTCTGTATCTCACCTCCAAACCT
AACCTGTCTTTAAAGTGTGGTGCAGCACCTTTGGAGAATGTGGTGCCTAAGTACAAGAGCATGATCC
TGGAAGACCTGGAGTCTGCTCTGGCAGAACACGCCCTGCGCCACAGGAGTTAACTCAGAACTGCCGCC
TCTCACCATCGACGGAATTCAGTCTCTGTGGACAAAATGACCCAGGCCAGCTTCGGGCATTTATCCCA
GAGATGCTCAAGTACTCTACAGGTGGGGAAAACAGGCTGGGGGAAAGAAAGCTGCAAGCCCATCTGGT
GGCCTGAAGATATCCCCTGGGCAAAATGTCGGGAGTGATGTCCGCACAGAAGAGCAAAAGCAGAGGGTTTC
ATGGACCCAGGCACTACGGACCATAGTTAAAACTGTTATAAACAGCATGGGCGGGAAGACCTTTTGTAT
GCCTTTGAAGATCAGCAAACGCAACACAGGCCACAGCCACACATAGTATAGCTCATCTTGTACCATCAC
AGACTGTAGTCCAGACTTTTAGTAACCTGATGGCACTGTCTCACTTATCCAGGTTGGTACGGGGCAAC
AGTAGCCACATTGGCTGATGCTTCAGAATTGCCAACCAGGTACCCTGGCCAAAGTGAATTATTCTGCC
GTGGCTGATGGAGAGGTGGAACAAAATTGGGCCACGTTACAGGGAGGTGAGATGACCATCCAGACGACGC
AAGCATCAGAGGCCACCCAGGCGGTGGCATCGTTGGCAGAGGCCGAGTGGCAGCTTCTCAGGAGATGCA
GCAGGGAGCTACAGTCACTATGGCGCTTAACAGCGAAGCTGCCGCCATGCTGTCGCCACCTGGCTGAG
GCCACCTTACAAGGTGGGGGACAGATCGTCTTGTCTGGGGAAACCGCAGCAGCCGTGGGAGCACTTACTG
GAGTCCAAGATGCTAATGGCCTGGTCCAGATCCCTGTGAGCATGTACCAGACTGTGGTGACCAGCCTCGC
CCAGGGCAACGGACCAGTGCAGGTGGCCATGGCCCTGTGACCACCAGGATATCAGACAGCGCAGTCAAC
ATGGACGGCCAAGCTGTGGAGGTGGTACATTGGAACAGTGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_005011 unedited
 CGCAATAGTATACGACTCACTATAGGCGGCCGCGNAATTCGCACGAGCATTGCCGCTGGT
 GGCAGGAGGCTGCGAGGAGCCGGCGCGGTGCGAGTCTCCACGGCGCAGGCCACGGTAGC
 GCAGCCGCTCTGAGAACTTCATGGAGGAACACGGAGTGACCCAAACCGAACATATGGCTA
 CCATAGAAGCACATGCAGTGGCCAGCAAGTGCAGCAGGTCCATGTGGCTACTTACACCG
 AGCATAGTATGCTGAGTCTGATGAAGACTCGCCTTCTTCTCCCGAGGACACCTCTTACG
 ATGACTCAGATATACTCAACTCCACAGCAGCTGATGAGGTGACAGCTCATCTGGCAGCTG
 CAGGTCCGTGGGAATGGCCGCTGCTGCTGTGGCAACAGGAAAGAAACGAAACGGC
 CTCATGTATTTGAGTCTAATCCATCTATCCGGAAGAGGCAACAAACACGTTTGCTTCGGA
 AACTTCGAGCCACGTTAGATGAATATACTACTCGTGTGGGACAGCAAGCTATTGCCTCT
 GTATCTCACCCCTCAAACCTAACCTGTCTTTAAAGTGTGGTGCAGCACCTTTGGAGA
 ATGTGGTGCCTAAGTACAAGAGCATGATCCTGGAAGACCTGGAGTCTGCTCTGGCAGAAC
 ACGCCCTGCGCCACAGGAGGTTAACTCAGAACTGCCCTCTCACCATCGATGGAATTC
 CAGTCTCTGTGGACAAAATGACCCAGGCCAGCTTCGGGCATTTATCCCAGAGATGCTCA
 AGTACCTCTACAGTCCGGGAAAACAGGCTGGGGAAAAGAAAGCTGCAGGCCATNTTG
 TGGCCTGAAGAATCCCCTGGCCAAAGTCCGGATGATGTCCGCCNAGAGACAAAGCAGA
 GGGTTGGTACCGGGCAACAGTAACCACATTGGCTGATGCCTTAAATGCCACCN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_005011 unedited
 CGGGGGAGCCNCCCCTTNNNNNNGANGATCTGNCCGCGCCGCATCTANGANCGAGN
 NNTTNTTTTTTTTTTTTTTTTTTTTTTTTGGACCTAAAACAGACAACATTTAATAGTCAT
 GAGATCAAGGATTCCTGGGAAGGAAAGGAGATGGGAGGCTGAGGCCCGGGAGCTTCAAG
 ACATTCATCTGCCTGTGGCAAGGTCAGCACCTGGGCCAGCCCGAGGAGCATCTCAGCTGG
 CAGACCACGCAGTCCCTGGACCTTGCAAGCACATCTGTACCCACCCCATGCTGGAGCCT
 CTTTCCTCAGGTGAGTCCAGCAGGGAGAGTTCTGTGTGGCCACTGGGAGGAGCTTTGGT
 GAAGGGCATGGTCACTCCGCTGAGTTTGTGAGTGTCAACGCATGACCCTGGTATGA
 ACAAAAAGTGGTGACTGTGTGGCCACGTACCCTACCACCACTAACTGGGTGAATT
 ATTGTTTCCACAGCGCACCTTGATTTTATACAGATAATTCATGCGGGTTTTCATACATAT
 ATATATATATATGGATATATACTTTATATATATGTAATGTGTATGTCCATATGTACA
 CATATACATATATTCACACTCACACAACACACATAAGTTTACACACACATTTCCGCAG
 AAGAAAAGCTGCCACAANTTGGCTTTTTTTGGACAGTGAANATGACAATGCAGTTTCTC
 ACCCATCCGAGAAAATCAGAAGTGTGCTTTAAAATGCATTTCAAATCGCTTTTTTCTT
 TTAATAAAAAAGTTACAACTTNTCTCAAAGTCAAAGACTTATCCACTTGATGGGCC
 TTTGCAACGTGTAATAATTTTGGAGTACTGAAACCATGCCTTAAATGGCTGATGCACT
 GTCCATGTACCACCTCCAGTTGGCCGCATGGGACTGGCCTTTTGATATCTGGGGCCAG
 GGGCCATGCCACTGCCTGGTCTGCCCTGGCAAGCTGGCCACAAGT

Restriction Sites:

NotI-NotI

ACCN:

NM_005011

Insert Size:

2440 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_005011.2](#), [NP_005002.2](#)

RefSeq Size: 2514 bp

RefSeq ORF: 1569 bp

Locus ID: 4899

UniProt ID: [Q16656](#)

Cytogenetics: 7q32.2

Protein Families: Transcription Factors

Protein Pathways: Huntington's disease

Gene Summary: This gene encodes a protein that homodimerizes and functions as a transcription factor which activates the expression of some key metabolic genes regulating cellular growth and nuclear genes required for respiration, heme biosynthesis, and mitochondrial DNA transcription and replication. The protein has also been associated with the regulation of neurite outgrowth. Alternative splicing results in multiple transcript variants. Confusion has occurred in bibliographic databases due to the shared symbol of NRF1 for this gene and for "nuclear factor (erythroid-derived 2)-like 1" which has an official symbol of NFE2L1. [provided by RefSeq, May 2014]

Transcript Variant: This variant (1) differs in the 5' UTR and lacks an alternate in-frame exon in the 3' coding region, compared to variant 3. The encoded protein (isoform 1) is shorter, compared to isoform 2. Variants 1 and 2 encode the same protein (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.