

Product datasheet for **RN204818**

Nrf1 (NM_001100708) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nrf1 (NM_001100708) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Nrf1
Synonyms:	Nfe2l1_retired
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >RN204818 representing NM_001100708
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGAGGAACACGGAGTGACCCAAACCGAACACATGGCTACCATAGAAGCCCATGCAGTGGCCAGCAAG
TTCAGCAGGTCCATGTAGCCACTTACACTGAGCACAGTATGCTAAGTGCTGATGAAGACTCCCTTCCTC
GCCTGAGGACACTTCTTACGATGACTCGGACATACTCAACTCCACGGCAGCTGATGAGGTAAGTCCCAT
CTGGCTGCTGCAGGTCCTGTGGGAATGGCTGCTGCTGCTGTGGCAACAGGGAAGAAACGGAAAAGGC
CTCATGTGTTGAGTCTAACCCATCTATCCGAAAGAGACAGCAGACACGGTTGCTTCGAAAACCTCAGAGC
CACATTAGATGAATATACGACACGAGTGGGACAGCAAGCCATTGTTCTCTGCATCTACCCTCCAAACCC
AACCTGTCTTTAAGGTGTTGGCGCAGCACCTTTGGAGAATGTGGTGCAGCAAGTACAAGAGCATGATCC
TGAAGACCTGGAGTCTGCGCTGGCAGACACGCCCTGCGCCACAGGAGTTAATTGAAACTGCCCCC
TCTCACCATCGATGGGATCCAGTCTCTGTGGACAAGATGACCCAGGCTCAGCTTCGGGCATTTATCCCA
GAGATGCTCAAGTACTCCACAGGTGCGGGAAAACAGGCTGGGGGAAAGAAAGTCAAGCTATCTGGT
GGCCAGAAGACATCCCATGGGCCAATGTCCGAGTGACGTCCGCACAGAAGAGCAAAAGCAAGGGTTC
ATGGACCAAGCATTACGGACCATAGTTAAAAATTGTTATAAGCAGCATGGGCGGGAGGACCTTCTGTAT
GCTTTCGAAGATCAGCAGACACAACTCAGGCCACCACACACAGCATAGCCCATCTCGTACCATCAC
AGACAGTAGTACAGACCTTCAGCAACCCGTATGGCACCCTGTCGCTCATCCAGGTTGGTACTGGGCAAC
AGTAGCCACATTTGGCTGATGCTTCAGAACTGCCAACACAGTCACTGTTGCCAAGTGAATTATTCTGCT
GTGGCTGATGGAGAGGTGAACAAAATTGGGCCACATTACAGGGCGGTGAAATGACCATCCAGACGACGC
AAGCATCAGAGGCCACCCAGGCAGTGGCATCACTGGCAGAGGCCGCGAGTGGCCGTTCTCAGGAGATGCA
ACAGGGAGCCACTGTACCATGGCCCTTAACAGTGAAGCTGCCGCCATGCTGTCGCCACTCTGGCTGAA
GCCACCTTACAAGCGGGGGACAGATAGTCTGTCTGGGAAAACCGCAGCAGCCGTTGGAGCACTTACTG
GAGTCCAAGATGCTAATGGCCAGATGGAGTTCATGCATGGACCATCAGCAAAGCCGTGACGGCTCCTCA
GGCTGCAGGAAAATTATACAGATTTTGGAAAGGGATTATTATGGCGAAGTAAATGAAAGACGAAGAT
CTTAAAGAGGAGATTCTGAGAACGCAGCTAAGGCTGCTGGGAAGTACAAACAACAGGCAGAGCTTACG
TTGTTGAAGACGGAGATATTATCTTCTTCAAATTAACTCGCCACAGCAACTGAAAAGGAAATAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: NM_001100708

Insert Size: 1605 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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:	<ol style="list-style-type: none">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:	<u>NM_001100708.1, NP_001094178.1</u>
RefSeq Size:	1898 bp
RefSeq ORF:	1605 bp
Locus ID:	312195
Cytogenetics:	4q22
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. Confusion has occurred in bibliographic databases for genes in the "nuclear respiratory factor" and "nuclear factor (erythroid-derived 2)-like" families due to a shared symbol or alias of Nrf1. [provided by RefSeq, Jul 2008]