

Product datasheet for **RR204818**

Nrf1 (NM_001100708) Rat Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide Sequence:

>RR204818 representing NM_001100708
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGGAACACGGAGTGACCCAAACCGAACACATGGCTACCATAGAAGCCCATGCAGTGGCCAGCAAG
 TTCAGCAGGTCCATGTAGCCACTTACACTGAGCACAGTATGCTAAGTGCTGATGAAGACTCCCCTTCCCTC
 GCCTGAGGACACTTCTTACGATGACTCGGACATACTCAACTCCACGGCAGCTGATGAGGTAAGTCCCAT
 CTGGCTGCTGCAGGTCCTGTGGGAATGGCTGCTGCTGCTGCTGTTGGCAACAGGGAAGAAACGGAAAAGGC
 CTCATGTGTTGAGTCTAACCCATCTATCCGAAAGAGACAGCAGACACGGTTGCTTCGAAAACCTCAGAGC
 CACATTAGATGAATATACGACACGAGTGGGACAGCAAGCCATTGTTCTCTGCATCTACCCTCCAAACCC
 AACCTGTCTTTAAGGTGTTGGCGCAGCACCTTTGGAGAATGTGGTGCAGCAAGTACAAGAGCATGATCC
 TGAAGACCTGGAGTCTGCGCTGGCAGACACGCCCTGCGCCACAGGAGTTAATTGAAACTGCCCC
 TCTACCATCGATGGGATTCCAGTCTCTGTGGACAAGATGACCCAGGCTCAGCTTCGGGCATTTATCCCA
 GAGATGCTCAAGTACTCCACAGGTCGGGAAAACCAAGGCTGGGGGAAAGAAAGCTGCAAGCTATCTGGT
 GGCCAGAAGACATCCCATGGGCCAATGTCCGAGTGACGTCCGCACAGAAGAGCAAAAGCAAGGGTTTC
 ATGGACCAAGCATTACGGACCATAGTTAAAAATTGTTATAAGCAGCATGGGCGGGAGGACCTTCTGTAT
 GCTTTCGAAGTACAGCAGACAAAACCTCAGGCCACCACACACAGCATAGCCCATCTCGTACCATCAC
 AGACAGTAGTACAGACCTTACGAAACCTGATGGCACCCTGTCGCTCATCCAGTTGGTACTGGGCAAC
 AGTAGCCACATTTGGCTGATGCTTCAAGTCCAAACACAGTCACTGTTGCCAAGTGAATTATCTGCT
 GTGGCTGATGGAGAGTGAACAAAATTTGGCCACATTACAGGGCGGTGAAATGACCATCCAGACGACGC
 AAGCATCAGAGGCCACCCAGGCAGTGGCATCACTGGCAGAGGCCGAGTGGCCGCTTCTCAGGAGATGCA
 ACAGGGAGCCACTGTACCATGGCCCTAACAGTGAAGCTGCCGCCATGCTGTCGCCACTCTGGCTGAA
 GCCACCTTACAAGCGGGGGACAGATAGTCTGTCTGGGAAAACCGCAGCAGCCGTTGGAGCACTTACTG
 GAGTCCAAGATGCTAATGGCCAGATGGAGTTCATGCATGGACCATCAGCAAAGCCGTGACGGCTCCTCA
 GGCTGCAGGAAAATTCATACAGATTTTGGAAAGGGATTATTATGGCGAAGTAAATGAAAGACGAAGAT
 CTTAAAGAGGAGATTCTGAGAACGCAGCTAAGGCTGCTGGGAAGTACAAACAACCAGGCAGAGCTTACG
 TTGTTGAAGACGGAGATATTATCTTCTTCAAATTAACCTGCCACAGCAACTGAAAAGGAAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR204818 representing NM_001100708
 Red=Cloning site Green=Tags(s)

MEEHGVTQTEHMTIEAHAVAQQVQVHVATYTEHSMLSAEDSPSSPEDTSYDDSDILNSTAADEVTAH
 LAAAGPVGMAAAAVATGKKRKRPHVFESNPSIRKRQQLRLLRKLRLATLDEYTTTRVGQQAIVLCLISPSK
 NPVFKVFGAAPLENVVRKYKSMILEDLESALAEHAPAPQEVNSELPLTIDGIPVSVDKMTQAQLRAFIP
 EMLKYSTGRGKPGWGKESCKPIWWPEDIPWANVRSVDRTEEQKQVSWTQALRTIVKNKYKHGREDLLY
 AFEDQQTQTQATTTTHSIAHLVPSQTVVQTFSNPDGTVSLIQVGTGATVATLADASELPTTVTVAQVNYSA
 VADGEVEQNWATLQGGEMTIQTTQASEATQAVASLAEAAVAASQEMQQGATVTMALNSEAAAHAVATLAE
 ATLQGGGQIVLSGETAAAVGALTGVDANGPDGVHAWTISKAVTAPQAAGKIHTDFGKGFIMAEVMKDED
 LKEESSENAAKAAGKYKQPGRAYVVEDGDIIFKFNSPQQLKRK

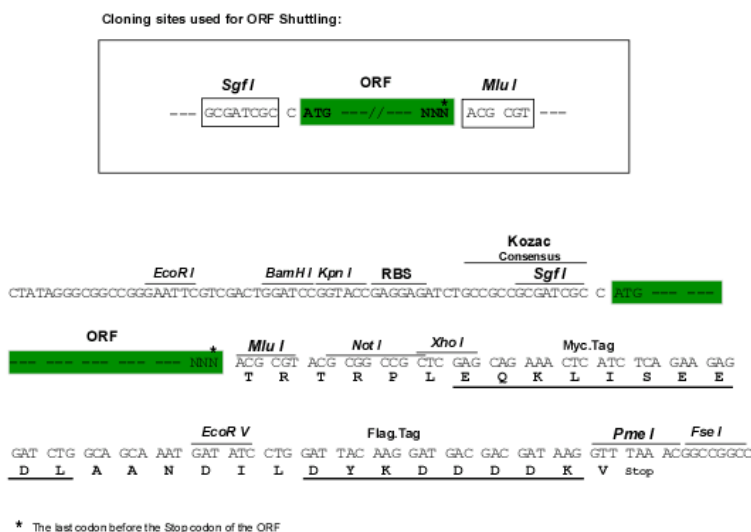
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja2619_e06.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001100708

ORF Size: 1602 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](#)

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:

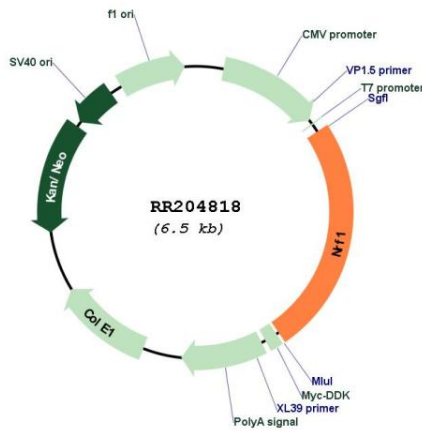
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store 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_001100708.1](#), [NP_001094178.1](#)

RefSeq Size: 1898 bp
 RefSeq ORF: 1605 bp
 Locus ID: 312195
 Cytogenetics: 4q22
 MW: 57.7 kDa

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]

Product images:



Circular map for RR204818