

Product datasheet for **RC238707**

NRF1 (NM_001293163) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NRF1 (NM_001293163) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NRF1
Synonyms:	ALPHA-PAL
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RC238707 representing NM_001293163
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGAACACGGAGTGACCCAAACCGAACATATGGCTACCATAGAAGCACATGCAGTGGCCAGCAAG
 TGCAGCAGGTCCATGTGGCTACTTACACCGAGCATAGTATGCTGAGTGCATGAAGACTCGCCTTCTTC
 TCCCGAGGACACCTCTTACGATGACTCAGATATACTCAACTCCACAGCAGCTGATGAGGTGACAGCTCAT
 CTGGCAGCTGCAGGTCTGTGGGAATGGCCGCTGCTGCTGTGGCAACAGGAAAGAAACGGAAACGGC
 CTCATGTATTTGAGTCTAATCCATCTATCCGGAAGAGGCAACAAACACGTTTGCTTCGAAACTTCGAGC
 CACGTTAGATGAATATACTACTCGTGTGGGACAGCAAGCTATTGCCTCTGTATCTACCCTCCAAACCT
 AACCTGTCTTTAAAGTGTGGTGCAGCACCTTTGGAGAATGTGGTGCCTAAGTACAAGAGCATGATCC
 TGAAGACCTGGAGTCTGCTCTGGCAGAACACGCCCTGCGCCACAGGAGTTAACTCAGAACTGCCGCC
 TCTCACCATCGACGGAATCCAGTCTCTGTGGACAAAATGACCCAGGCCAGCTTCGGGCATTTATCCCA
 GAGATGCTCAAGTACTCTACAGTCTGGGAAAACAGGCTGGGGGAAAGAAAGCTGCAAGCCCATCTGGT
 GGCTGAAGATATCCCCTGGGCAATGTCCGGAGTGATGTCCGCACAGAAGAGCAAAAGCAGAGGGTTTC
 ATGGACCCAGGCACTACGGACCATAGTTAAAACTGTTATAAACAGCATGGGCGGGAAGACCTTTTGTAT
 GCCTTTGAAGATCAGCAAACGCAACACAGGCCACAGCCACACATAGTATAGCTCATCTTGTACCATCAC
 AGACTGTAGTCCAGACTTTTAGTAAACCTGATGGCACTGTCTCACTTATCCAGGTTGGTACGGGGCAAC
 AGTAGCCACATTTGGCTGATGCTTCAGAATTGCCAACACGGTACCCTTGCCCAAGTGAATTATCTGCC
 GTGGCTGATGGAGAGGTGGAACAAAATTTGGCCACGTTACAGGGAGGTGAGATGACCATCCAGACGACGC
 AAGCATCAGAGGCCACCCAGGCGGTGGCATCGTTGGCAGAGGCCGCAAGTGCAGCTTCTCAGGAGATGCA
 GCAGGGAGCTACAGTCACTATGGCGCTTAACAGCGAAGCTGCCGCCCATGCTGTCCACCCTGGCTGAG
 GCCACCTTACAAGGTGGGGGACAGATCGTCTTGTCTGGGAAAACCGCAGCAGCCGTCGGAGCACTTACTG
 GAGTCCAAGATGCTAATGGCCTCTTATGGCAGATCGTGCAGGTCGCAAGTGGATCCTGACTGACAAAGC
 CACAGGCCTGGTCCAGATCCCTGTGAGCATGTACCAGACTGTGGTACCAGCCTCGCCAGGGCAACGGGA
 CCAGTGCAGGTGGCCATGGCCCTGTGACCACCAGGATATCAGACAGCGCAGTACCATGGACGGCAAG
 CTGTGGAGGTGGTACATTGGAACAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC238707 representing NM_001293163
 Red=Cloning site Green=Tags(s)

MEEHGVTQTEHMTIEAHAVAQQVQVHVATYTEHSMLSADEDSPPSPEDTSYDDSDILNSTAADEVTAH
 LAAAGPVGMAAAAVATGKKRKRPHVFESENPSIRKRQQRLLRKLRLATLDEYTRVGGQQAIVLCISPSKP
 NPVFKVFGAAPLENVVRKYKSMILEDLESALAEHAPAPQEVNSELPLTIDGIPVSVDKMTQAQLRAFIP
 EMLKYSTGRGKPGWGKESCKPIWWPEDIPWANVRSVDRTEEQKQRVSWTQALRTIVKNCYKQHGREDLLY
 AFEDQQTQTQATATHSIAHLVPSQTVVQTFSPDGTVSLIQVGTGATVATLADASELPTTVTVAQVNYSA
 VADGEVEQNWATLQGGEMTIQTTQASEATQAVASLAEEAQAASQEMQQGATVTMALNSEAAAHAVATLAE
 ATLQGGGQIVLSGETAAAVGALTVQDANGLFMADRAGRKWLTDKATGLVQIPVSMYQTVVTSLAQNGN
 PVQVAMAPVTTRISDSAVTMDGQAVEVVTLEQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

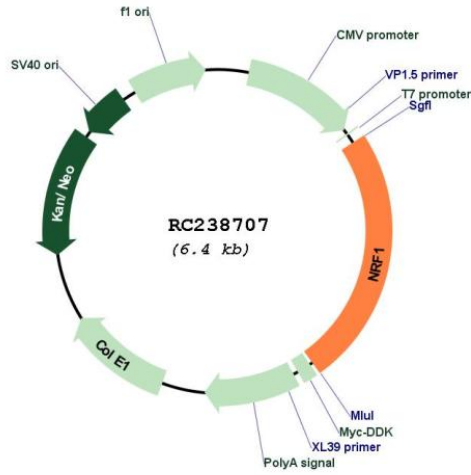
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_001293163
ORF Size:	1566 bp
OTI Disclaimer:	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:	<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:	NM_001293163.2
RefSeq Size:	3612 bp
RefSeq ORF:	1569 bp
Locus ID:	4899
UniProt ID:	Q16656
Cytogenetics:	7q32.2
Protein Families:	Transcription Factors
Protein Pathways:	Huntington's disease
MW:	56.1 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. 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]