

## Product datasheet for **RC220113**

### **NRF1 (NM\_005011) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NRF1 (NM_005011) 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:**

>RC220113 representing NM\_005011  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGGAACACGGAGTGACCCAAACCGAACATATGGCTACCATAGAAGCACATGCAGTGGCCAGCAAG  
 TGCAGCAGGTCCATGTGGCTACTTACACCGAGCATAGTATGCTGAGTGCATGAAGACTCGCCTTCTTC  
 TCCCGAGGACACCTCTTACGATGACTCAGATATACTCAACTCCACAGCAGCTGATGAGGTGACAGCTCAT  
 CTGGCAGCTGCAGGTCTGTGGGAATGGCCGCTGCTGCTGTGGCAACAGGAAAGAAACGGAAACGGC  
 CTCATGTATTTGAGTCTAATCCATCTATCCGGAAGAGGCAACAAACACGTTTGCTCGGAAACTCGAGC  
 CACGTTAGATGAATATACTACTCGTGTGGGACAGCAAGCTATTGCTCTGTATCTACCCTCCAAACCT  
 AACCTGTCTTTAAAGTGTGGTGCAGCACCTTTGGAGAATGTGGTGCCTAAGTACAAGAGCATGATCC  
 TGAAGACCTGGAGTCTGCTCTGGCAGAACACGCCCTGCGCCACAGGAGTTAACTCAGAACTGCCGCC  
 TCTCACCATCGACGGAATCCAGTCTCTGTGGACAAAATGACCCAGGCCAGCTTCGGGCATTTATCCCA  
 GAGATGCTCAAGTACTCTACAGTCTGGGAAAACAGGCTGGGGGAAAGAAAGCTGCAAGCCCATCTGGT  
 GGCTGAAGATATCCCCTGGGCAATGTCCGGAGTGATGTCCGCACAGAAGAGCAAAAGCAGAGGGTTTC  
 ATGGACCCAGGCACTACGGACCATAGTTAAAACTGTTATAAACAGCATGGGCGGGAAGACCTTTTGAT  
 GCCTTTGAAGATCAGCAAACGCAACACAGGCCACAGCCACACATAGTATAGCTCATCTTGATACCATCAC  
 AGACTGTAGTCCAGACTTTTAGTAACTTATGATGGCACTGTCTCACTTATCCAGGTTGGTACGGGGCAAC  
 AGTAGCCACATTTGGTGTGCTTCAAGATTGCCAACACGGTACCGTTGCCAAGTGAATTATTTCTGCC  
 GTGGCTGATGGAGAGTGAACAAAATTTGGCCACGTTACAGGGAGGTGAGATGACCATCCAGACGACGC  
 AAGCATCAGAGGCCACCCAGGCGGTGGCATCGTTGGCAGAGGCCGAGTGGCAGCTTCTCAGGAGATGCA  
 GCAGGGAGCTACAGTCACTATGGCGCTTAACAGCGAAGCTGCGGCCATGCTGTCCACCCTGGCTGAG  
 GCCACCTTACAAGTGGGGACAGATCGTCTTGTCTGGGAAAACCGCAGCAGCCGTCGGAGCACTTACTG  
 GAGTCCAAGATGCTAATGGCCTCTTATGGCAGATCGTGCAGGTCGCAAGTGGATCCTGACTGACAAAGC  
 CACAGGCCTGGTCCAGATCCCTGTGAGCATGTACCAGACTGTGGTACCAGCCTCGCCAGGGCAACGGA  
 CCAGTGCAGGTGGCCATGGCCCTGTGACCACCAGGATATCAGACAGCGCAGTACCATGGACGGCAAG  
 CTGTGGAGGTGGTACATTGGAACAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC220113 representing NM\_005011  
 Red=Cloning site Green=Tags(s)

MEEHGVTQTEHMTIEAHAVAQQVQVHVATYTEHSMLSAEDSPSSPEDTSYDDSDILNSTAADEVTAH  
 LAAAGPVGMAAAAVATGKKRKRPHVFESNPSIRKRQQRLLRKLRLATLDEYTRVGGQAIIVLCISPSKP  
 NPVFKVFGAAPLENVVRKYKSMILEDLESALAEHAPAPQEVNSELPLTIDGIPVSVDKMTQAQLRAFIP  
 EMLKYSTGRGKPGWGKESCKPIWWPEDIPWANVRSVDRTEEQKQVRSWTQALRTIVKNCYKQHGREDLLY  
 AFEDQQTQTQATATHSIAHLVPSQTVVQTFSNPDGTVSLIQVGTGATVATLADASELPPTTVTVAQVNYSA  
 VADGEVEQNWATLQGGEMTIQTTQASEATQAVASLAEAAVAASQEMQQGATVTMALNSEAAAHAVATLAE  
 ATLQGGGQIVLSGETAAAVGALTVQDANGLFMADRAGRKWLTDKATGLVQIPVSMYQTVVTSLAQNGN  
 PVQVAMAPVTTRISDSAVTMDGQAVEVVTLEQ

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI



<b>ACCN:</b>	NM_005011
<b>ORF Size:</b>	1566 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_005011.2</a> , <a href="#">NP_005002.2</a>
<b>RefSeq Size:</b>	2514 bp
<b>RefSeq ORF:</b>	1512 bp
<b>Locus ID:</b>	4899
<b>UniProt ID:</b>	<a href="#">Q16656</a>
<b>Cytogenetics:</b>	7q32.2
<b>Protein Families:</b>	Transcription Factors
<b>Protein Pathways:</b>	Huntington's disease
<b>MW:</b>	55.67 kDa
<b>Gene Summary:</b>	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]