

Product datasheet for **SC335482**

NRF1 (NM_001293164) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NRF1 (NM_001293164) Human Untagged Clone
Tag:	Tag Free
Symbol:	NRF1
Synonyms:	ALPHA-PAL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001293164
Insert Size:	1029 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:	<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_001293164.1</u>
RefSeq Size:	3440 bp
RefSeq ORF:	1029 bp



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Locus ID:	4899
UniProt ID:	Q16656
Cytogenetics:	7q32.2
Protein Families:	Transcription Factors
Protein Pathways:	Huntington's disease
MW:	36.1 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (4) differs in the 5' UTR, lacks a portion of the coding region, and initiates translation at a downstream start codon, compared to variant 3. The encoded protein (isoform 3) is shorter, compared to isoform 2. 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.</p>