

Product datasheet for **RG237588**

NRF1 (NM_001293164) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NRF1 (NM_001293164) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NRF1
Synonyms:	ALPHA-PAL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG237588 representing NM_001293164. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTGTGAAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGATCCTGGAAGACCTGGAGTCTGCTCTGGCAGAACACGCCCTGCGCCACAGGAGTTAACTCAGAA
CTGCCGCTCTCACCATCGACGGAATTCAGTCTCTGTGGACAAAATGACCCAGGCCAGCTTCGGGCA
TTTATCCAGAGATGCTCAAGTACTCTACAGGTCGGGGAAAACCAGGCTGGGGGAAAGAAAGCTGCAAG
CCCATCTGGTGGCCTGAAGATATCCCCTGGCAAATGTCCGGAGTGATGCCGCACAGAAGAGCAAAAG
CAGAGGGTTTCATGGACCCAGGCACTACGGACCATAGTAAAAACTGTTATAAACAGCATGGCGGGAA
GACCTTTTGTATGCCTTTGAAGATCAGCAAACGCAAACACAGGCCACAGCCACACATAGTATAGCTCAT
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GGTACGGGGCAACAGTAGCCACATTGGCTGATGCTTCAGAATTGCCAACACCGTCCACCGTTGCCCAA
GTGAATTATTCTGCCGTGGCTGATGGAGAGGTGGAACAAAATTGGCCACGTTACAGGGAGGTGAGATG
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GCTTCTCAGGAGATGCAGCAGGGAGCTACAGTCACTATGGCGCTTAACAGCGAAGCTGCCGCCATGCT
GTCGCCACCCTGGCTGAGGCCACCTTACAAGGTGGGGACAGATCGTCTTGTCTGGGAAACCGCAGCA
GCCGTCCGAGCACTTACTGGAGTCCAAGATGCTAATGGCTGGTCCAGATCCCTGTGAGCATGTACCAG
ACTGTGGTGACCAGCCTCGCCAGGGCAACGGACAGTGCAGGTGGCCATGGCCCTGTGACCACCAGG
ATATCAGACAGCGCAGTACCATGGACGGCAAGCTGTGGAGGTGGTACATTGGAACAG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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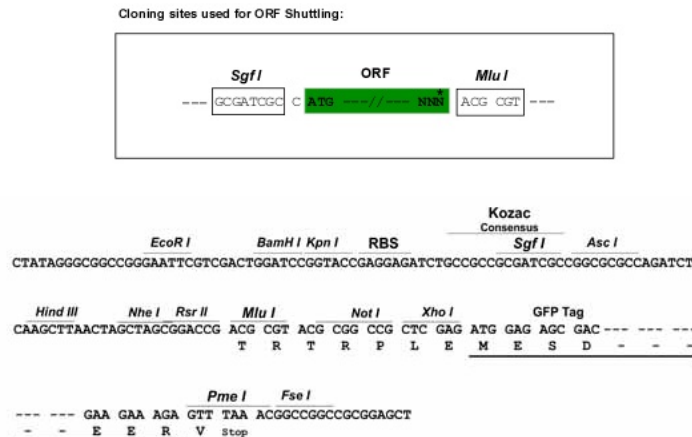
[View online »](#)

Protein Sequence: >Peptide sequence encoded by RG237588
 Blue=ORF Red=Cloning site Green=Tag(s)

MILEDLESALAEHAPAPQEVNSELPLTIDGIPVSVDKMTQAQLRAFIPEMLKYSTGRGKPGWGKESCK
 PIWWPEDIPWANVRSDVRTEEQQRVSWTQALRTIVKNCYKQHGRELLYAFEDQQTQTQATATHSIAH
 LVPSQTVVQTFSPNDGTVSLIQVGTGATVATLADASELPTTVTVAQVNYSAVADGEVEQNWATLQGGEM
 TIQTTQASEATQAVASLAEEAAVAASQEMQOGATVTMALNSEAAAHAVATLAEATLQGGGQIVLSGETAA
 AVGALTGVDANGLVQIPVSMYQTVVTSLAQGNQPVQVAMAPVTRISDSAVTMDGQAVEVVTLEQ
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
 MGYGFYHFGTYPYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001293164

ORF Size: 1026 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).

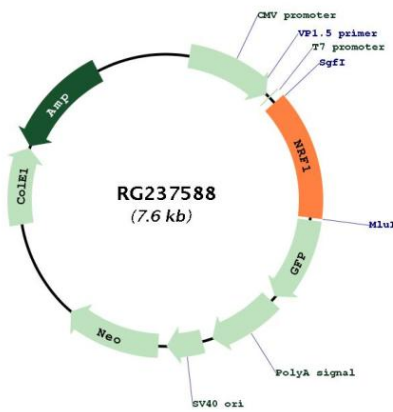
RefSeq: [NM_001293164.2](#)

RefSeq Size: 3440 bp

RefSeq ORF: 1029 bp

Locus ID:	4899
UniProt ID:	Q16656
Cytogenetics:	7q32.2
Protein Families:	Transcription Factors
Protein Pathways:	Huntington's disease
MW:	36.5 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]

Product images:



Circular map for RG237588