

Product datasheet for **RG238707**

NRF1 (NM_001293163) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NRF1 (NM_001293163) 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)



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ORF Nucleotide Sequence:

>RG238707 representing NM_001293163.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGAGGAACACGGAGTGACCCAAACCGAACATATGGCTACCATAGAAGCACATGCAGTGGCCAGCAA
GTGCAGCAGGTCCATGTGGCTACTTACACCGAGCATAGTATGCTGAGTGTGATGAAGACTCGCCTTCT
TCTCCCGAGGACACCTCTTACGATGACTCAGATATACTCAACTCCACAGCAGCTGATGAGGTGACAGCT
CATCTGGCAGCTGCAGGTCTGTGGGAATGGCCGCTGCTGCTGTGGCAACAGGAAAGAAACGGAAA
CGGCTCATGTATTTGAGTCTAATCCATCTATCCGGAAGAGGCAACAAACACGTTTGTCTCGAAACTT
CGAGCCACGTTAGATGAATATACTACTCGTGTGGGACAGCAAGCTATTGCCTCTGTATCTACCCTCC
AAACCTAACCTGTCTTTAAAGTGTGGTGCAGCACCTTTGGAGAATGTGGTGCCTAAGTACAAGAGC
ATGATCCTGGAAGACCTGGAGTCTGCTCTGGCAGAACACGCCCTGCGCCACAGGAGGTTAACTCAGAA
CTGCCGCTCTCACCATCGACGGAATCCAGTCTCTGTGGACAAAATGACCCAGGCCAGCTTCGGGCA
TTTATCCAGAGATGCTCAAGTACTCTACAGTCTGGGGAAAACAGGCTGGGGAAAAGAAAGCTGCAAG
CCCATCTGGTGGCTGAAGATATCCCCTGGGCAATGTCCGGAGTGATGTCCGCACAGAAGGACAAAAG
CAGAGGGTTTCATGGACCCAGGCACTACGGACCATAGTTAAAACTGTTATAAACAGCATGGGCGGGAA
GACCTTTTGTATGCCTTTGAAGATCAGCAAACGCAACACAGGCCACAGCCACACATAGTATAGCTCAT
CTTGATACCATCACAGACTGTAGTCCAGACTTTTAGTAACCCTGATGGCACTGTCTCACTTATCCAGGTT
GGTACGGGGGCAACAGTAGCCACATTGGCTGATGCTTCAGAAATGCCAACACGGTACCCGTTGCCCAA
GTGAATTATTCTGCCGTGGCTGATGGAGAGGTGGAACAAAATGGGCCACGTTACAGGGAGGTGAGATG
ACCATCCAGACGACGCAAGCATCAGAGGCCACCCAGGCGGTGGCATCGTTGGCAGAGGCCAGTGGCA
GCTTCTCAGGAGATGCAGCAGGAGCTACAGTCACTATGGCGCTTAACAGCGAAGTCCCGCCATGCT
GTCGCCACCCTGGCTGAGGCCACCTTACAAGGTGGGGGACAGATCGTCTTGTCTGGGAAACCCGACGA
GCCGTCGGAGCACTTACTGGAGTCCAAGATGCTAATGGCCCTTTATGGCAGATCGTGCAGTTCGAAG
TGGATCCTGACTGACAAAGCCACAGGCCTGGTCCAGATCCCTGTGAGCATGTACCAGACTGTGGTGACC
AGCCTCGCCAGGGCAACGGACAGTGCAGGTGGCCATGGCCCTGTGACCACCAGGATATCAGACAGC
GCAGTCCCATGGACGGCAAGCTGTGGAGGTGGTACATTGGAACAG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence:

>Peptide sequence encoded by RG238707
 Blue=ORF Red=Cloning site Green=Tag(s)

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MEEHGVTQTEHMTIEAHAVAQQVQVHVATYTEHSMLSADEDSPPSPEDTSYDDSDILNSTAADEVTA
HLAAAGPVGMAAAAVATGKKRRPHVFESNPSIRKRQQTLLRKLRLATLDEYTRVGGQAIVLCISPS
KPNPVFKVFGAAPLENVVRKYKSMILEDLESALAEHAPAPQEVNSELPPLTIDGIPVSVDKMTQAQLRA
FIPMLKYSTGRGKPGWGKESCKPIWWPEDIIPWANVRSDVREEQQRVSWTQALRTIVKNKYQHGRE
DLLYAFEDQQTQTQATATHSIAHLVPSQTVVQTFSNPDGTVSLIQVGTGATVATLADASELPTTVTVAQ
VNYSAVADGEVEQNWATLQGGEMTIQTTQASEATQAVASLAEAAVAASQEMQQGATVTMALNSEAAHA
VATLAEATLQGGGQIVLSGETAAAVGALTGVDANGLFMADRAGRKWLTDKATGLVQIPVSMYQTVVT
SLAQNGPVPVQVAMAPVTTTRISDSAVTMDGQAVEVVTLEQ
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYENPFLHAINNGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
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Restriction Sites:

Sgfl-MluI

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).
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]