

Product datasheet for **MG226739**

Nrf1 (NM_001164230) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nrf1 (NM_001164230) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nrf1
Synonyms:	C87038; D6Ertd415e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG226739 representing NM_001164230
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGAGGAGCACGGAGTGACCCAACTGAACACATGGCTACCATAGAAGCCCATGCAGTGGCCAGCAAG
 TCCAGCAGGTCCATGTAGCCACGTACACTGAGCACAGTATGCTAAGTGCTGATGAAGACTCCCCTTCTC
 CCCCAGGACACTTCTTATGATGACTCGGACATCCTCACTCCACGGCAGCTGATGAGGTAAGTCCCAT
 CTGGCTGCTGCAGGTCCTGTGGGAATGGCCGCTGCTGCTGCTGTGGCAACAGGGAAGAAACGAAACGGC
 CTCATGTGTTGAGTCTAATCCATCTATCCGAAAGAGACAGCAGACACGTTTGCTTCGAAACTCAGAGC
 CACGTTGGATGAGTACACGACGCGAGTGGGACAGCAAGCGATTGTACTCTGCATCTACCCTCCAAACCC
 AACCTGTCTTCAAGGTGTTGGCGCAGCACCTTTGGAGAATGTGGTGCAGAAAGTACAAGAGCATGATCC
 TGAAGACCTCGAGTCTGCTCTGGCAGAACACGCCCTGCGCCACAGGAGTTAATTGAGAGCTGCCGCC
 TCTCACCATCGATGGGATTCCAGTCTCTGTGGACAAAATGACCCAGGCTCAGCTTCGGGCATTTATCCCA
 GAGATGCTCAAGTATCCACAGGTCGGGGGAAACAGGCTGGGGGAAAGAAAGTCAAGCTATCTGGT
 GGCCAGAAGATATCCCATGGGCCAATGTCCGCAGTGATGTCCGCACAGAAGAGCAAAAAACAAAGGTTTC
 ATGGACCCAGGCATTACGGACCATAGTTAAAAATTGCTATAAGCAACATGGGCGGGAGGATCTTTTATAT
 GCTTTTGAAGTCAGCAAAACAAAACACTCAGGCCACCACCACACAGTATAGCTCATCTCGTACCATCAC
 AGACCGTAGTACAGACCTTCAGCAACCCGTATGGCACCCTGTCGCTCATCCAGGTTGGTACAGGGGCAAC
 AGTAGCCACATTGGCTGATGCTTCAAGACTGCCAACACAGTCACTGTTGCCAAGTGAATTACTCTGCT
 GTGGCTGATGGAGAGGTGAACAAAACACTGGGCCACGTTACAGGGCGGTGAAATGACCATCCAGACGACGC
 AAGCATCAGAGGCCACCCAGGCGGTAGCATCACTGGCAGAAAGCCGAGTGGCAGCTTCTCAGGAGTGC
 GCAGGGAGCCACTGTACCATGGCCCTCAACAGTGAAGCTGCCGCCATGCTGTCCGCACTCTGGCGGAA
 GCCACCTTACAAGGTGGGGGACAGATAGTCTGTCTGGGAAACCGCAGCAGCCGTCGGAGCACTTACTG
 GAGTCCAAGATGCTAATGGCCTCGGATCCCTGTGCTTCCAGAAATCATGGCCTCCAAGACCAGAGGATA
 CAGGCACTCTTGTGGGAGAGACCTTTATAGGCTTTTCTCCTTTTCTATTATACAGCAAAAATAATGAA
 AGGATTCTGTTGGCTCCTGCTACCTCAGGCAGCCCTGCTTTTATGTCAGAAATATTATCACAATTCTGTG
 TGGTATCTTATCTTCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG226739 representing NM_001164230
 Red=Cloning site Green=Tags(s)

MEEHGVTQTEHMATIEAHAVAQQVQVHVATYTEHSMLSAEDSPSSPEDTSYDDSDILNSTAADEVTAH
 LAAAGPVGMAAAAATGKKRKRPHVFESNPSIRKRQQRLLRKLRLATLDEYTRVGGQAIIVLCISPSKP
 NPVFKVFGAAPLENVVRKYKSMILEDLESALAEHAPAQEVNSELPLTIDGIPVSVDKMTQAQLRAFIP
 EMLKYSTGRGKPGWGKESCKPIWWPEDIPWANVRSVDRTEEQKQRVSWTQALRTIVKNCYKQHGREDLLY
 AFEDQQTQTQATTTTHSIAHLVPSQTVVQTFSNPDGTVSLIQVGTGATVATLADASELPPTVTVAQVNYSA
 VADGEVEQNWATLQGGEMTIQTTQASEATQAVASLAEAAVAASQEMQQGATVTMALNSEAAAHAVALAE
 ATLQGGQIVLSGETAAAVGALTGVDANGLGSPVLPIMASKTRGYRHSCGRDLYRLF SFFLLYSKNNE
 RILLAPATSGSPCFYVRNIITIRVGILSS

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001164230

ORF Size: 1557 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:

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_001164230.1](#), [NP_001157702.1](#)

RefSeq Size: 2574 bp

RefSeq ORF: 1560 bp

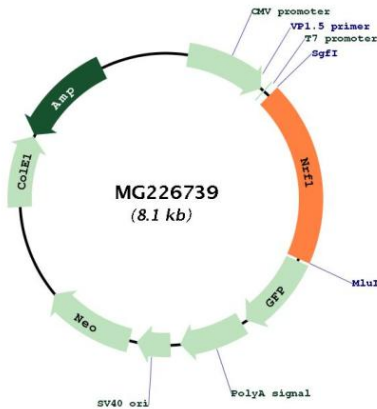
Locus ID: 18181

Cytogenetics: 6 12.47 cM

Gene Summary:

Transcription factor that activates the expression of the EIF2S1 (EIF2-alpha) gene. Links the transcriptional modulation of key metabolic genes to cellular growth and development. Implicated in the control of nuclear genes required for respiration, heme biosynthesis, and mitochondrial DNA transcription and replication (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG226739