

## Product datasheet for **MG226730**

### **Nrf1 (NM\_001164228) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nrf1 (NM_001164228) 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:**

>MG226730 representing NM\_001164228  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGAGGAGCACGGAGTGACCCAACTGAACACATGGCTACCATAGAAGCCCATGCAGTGGCCAGCAAG  
 TCCAGCAGGTCCATGTAGCCACGTACACTGAGCACAGTATGCTAAGTGCTGATGAAGACTCCCCTTCTC  
 CCCCAGGACACTTCTTATGATGACTCGGACATCCTCAACTCCACGGCAGCTGATGAGGTAAGTCCCAT  
 CTGGCTGCTGCAGGTCCTGTGGGAATGGCCGCTGCTGCTGCTGTGGCAACAGGGAAGAAACGGAAACGGC  
 CTCATGTGTTGAGTCTAATCCATCTATCCGAAAGAGACAGCAGACACGTTTGCTTCGAAACTCAGAGC  
 CACGTTGGATGAGTACACGACGCGAGTGGGACAGCAAGCGATTGTACTCTGCATCTACCCTCCAAACCC  
 AACCTGTCTTCAAGGTGTTGGCGCAGCACCTTTGGAGAATGTGGTGCAGAAAGTACAAGAGCATGATCC  
 TGAAGACCTCGAGTCTGCTCTGGCAGAACACGCCCTGCGCCACAGGAGTTAATTGAGAGCTGCCGCC  
 TCTACCATCGATGGGATTCCAGTCTCTGTGGACAAAATGACCCAGGCTCAGCTTCGGGCATTTATCCCA  
 GAGATGCTCAAGTATCCACAGGTCGGGGGAAACCAAGGCTGGGGGAAAGAAAGTCAAGCTATCTGGT  
 GGCCAGAAGATATCCCATGGGCCAATGTCCGCAGTGATGTCCGCACAGAAGAGCAAAAACAAAGGTTTC  
 ATGGACCCAGGCATTACGGACCATAGTTAAAAATTGCTATAAGCAACATGGGCGGGAGGATCTTTTATAT  
 GCTTTTGAAGTCAGCAACACAAACTCAGGCCACCACCACACAGTATAGCTCATCTCGTACCATCAC  
 AGACCGTAGTACAGACCTTCAGCAACCCGTATGGCACCCTGTCGCTCATCCAGTTGGTACAGGGGCAAC  
 AGTAGCCACATTGGCTGATGCTTCAAGACTGCCAACACAGTCACTGTTGCCAAGTGAATTACTCTGCT  
 GTGGCTGATGGAGAGGTGAACAAAACCTGGGCCACGTTACAGGGCGGTGAAATGACCATCCAGACGACGC  
 AAGCATCAGAGGCCACCCAGGCGGTAGCATCACTGGCAGAAGCCGAGTGGCAGCTTCTCAGGAGATGCA  
 GCAGGGAGCCACTGTCCCATGGCCCTCAACAGGCCAGATGGAGTTCATGCATGGACCATCAGCAAAGC  
 CGTGACGCTCCTCAGGCTGCAGGAAAGATTACACAGATTTTGGAAAGGATTATTATGGCGGAAGTA  
 ATGAAAGACGAAGATCT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG226730 representing NM\_001164228  
 Red=Cloning site Green=Tags(s)

MEEHGVTQTEHMAIEAHAVAQQVQVHVATYTEHSMLSADESPSSPEDTSYDDSDILNSTAADEVTAH  
 LAAAGPVGMAAAAVATGKKRKRPHVFESNPSIRKRQQRLLRKLRLATLDEYTRVGGQAIVLCISPSKP  
 NPVFKVFGAAPLENVVRKYKSMILEDLESALAEHAPAPQEVNSELPLTIDGIPVSVDKMTQAQLRAFIP  
 EMLKYSTGRGKPGWGKESCKPIWWPEDIPWANVRSDVRTEEQQRVSWTQALRTIVKNKYQHGRELLY  
 AFEDQQTQTQATTTTHSIAHLVPSQTVVQTFSNPDGTVSLIQVGTGATVATLADASELPTTVVAQVNYSA  
 VADGEVEQNWATLQGGEMTIQTTQASEATQAVASLAEAAVAASQEMQQGATVTMALNRPWRSSCMDHQQS  
 RDGSSGCRKDSYRFWKGIHYGGSNERRRS

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_001164228

ORF Size: 1347 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\\_001164228.1](#), [NP\\_001157700.1](#)

RefSeq Size: 2131 bp

RefSeq ORF: 1350 bp

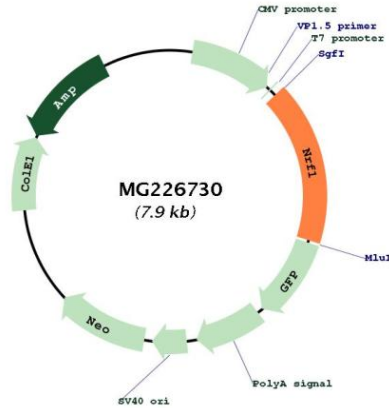
Locus ID: 18181

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 MG226730