

## Product datasheet for **MR226726**

### **Nrf1 (NM\_001164226) Mouse Tagged ORF Clone**

#### **Product data:**

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids                        |
| Product Name:             | Nrf1 (NM_001164226) Mouse Tagged ORF Clone |
| Tag:                      | Myc-DDK                                    |
| Symbol:                   | Nrf1                                       |
| Synonyms:                 | C87038; D6Ertd415e                         |
| Mammalian Cell Selection: | Neomycin                                   |
| Vector:                   | pCMV6-Entry (PS100001)                     |
| E. coli Selection:        | Kanamycin (25 ug/mL)                       |



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**ORF Nucleotide Sequence:**

>MR226726 representing NM\_001164226  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAGGAGCACGGAGTGACCCAACTGAACACATGGCTACCATAGAAGCCCATGCAGTGGCCAGCAAG  
 TCCAGCAGGTCCATGTAGCCACGTACACTGAGCACAGTATGCTAAGTGCTGATGAAGACTCCCCTTCTC  
 CCCCAGGACACTTCTTATGATGACTCGGACATCCTCAACTCCACGGCAGCTGATGAGGTAAGTCCCAT  
 CTGGCTGCTGCAGGTCCTGTGGGAATGGCCGCTGCTGCTGCTGTGGCAACAGGGAAGAAACGGAAACGGC  
 CTCATGTGTTGAGTCTAATCCATCTATCCGAAAGAGACAGCAGACACGTTTGCTTCGAAACTCAGAGC  
 CACGTTGGATGAGTACACGACGCGAGTGGGACAGCAAGCGATTGTACTCTGCATCTACCCTCCAAACCC  
 AACCTGTCTTCAAGGTGTTGGCGCAGCACCTTTGGAGAATGTGGTGCAGAAAGTACAAGAGCATGATCC  
 TGAAGACCTCGAGTCTGCTCTGGCAGAACACGCCCTGCGCCACAGGAGTTAATTTCAGAGCTGCCGCC  
 TCTACCATCGATGGGATTCCAGTCTCTGTGGACAAAATGACCCAGGCTCAGCTTCGGGCATTTATCCCA  
 GAGATGCTCAAGTATCCACAGGTCGGGGGAAACAGGCTGGGGGAAAGAAAGCTGCAAGCTATCTGGT  
 GGCCAGAAGATATCCCATGGGCCAATGTCCGCAGTGATGTCCGCACAGAAGAGCAAAAACAAAGGTTTC  
 ATGGACCCAGGCATTACGGACCATAGTTAAAAATTGCTATAAGCAACATGGGCGGGAGGATCTTTTATAT  
 GCTTTTGAAGTACAGCAACACAAACTCAGGCCACCACACACAGTATAGCTCATCTCGTACCATCAC  
 AGACCGTAGTACAGACCTTCAGCAACCCGTATGGCACCCTGTCGCTCATCCAGGTTGGTACAGGGCAAC  
 AGTAGCCACATTTGGCTGATGCTTCAAGTCCAAACCACAGTCACTGTTGCCAAGTGAATTACTCTGCT  
 GTGGCTGATGGAGAGGTGAACAAAACCTGGGCCACGTTACAGGGCGGTGAATGACCATCCAGACGACGC  
 AAGCATCAGAGGCCACCCAGGCGGTAGCATCACTGGCAGAACCCGAGTGCAGCTTCTCAGGAGATGCA  
 GCAGGGAGCCACTGTACCATGGCCCTCAACAGTGAAGCTGCCGCCATGCTGTCCGCACTCTGGCGGAA  
 GCCACCTTACAAGGTGGGGGACAGATAGTCTGTCTGGGAAACCGCAGCAGCCGTCGGAGCACTTACTG  
 GAGTCCAAGATGCTAATGGCCTGGTCCAGATCCCTGTGAGCATGTACCAGACTGTGGTAACCAGCCTCGC  
 CCAGGGCAACGGGCCGCTGCAGGTGGCCATGGCCCCAGTGACCACCAGGATATCGGACAGCGCAGTCACC  
 ATGGATGGCCAGGCTGTGGAGGTGGTACCTTGGAAACAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR226726 representing NM\_001164226  
 Red=Cloning site Green=Tags(s)

MEEHGVQTTEHMATIEAHAVAQQVQVHVATYTEHSMLSAEDSPSSPEDTSYDDSDILNSTAADEVTAH  
 LAAAGPVGMAAAAVATGKKRKRPHVFESNPSIRKRQQRLLRKLRLATLDEYTRVQQAIVLCISPSKP  
 NPVFKVFGAAPLENVVRKYKSMILEDLESALAEHAPAQEVNSELPLTIDGIPVSVDKMTQAQLRAFIP  
 EMLKYSTGRGKPGWGKESCKPIWWPEDIPWANVRSVDRTEEQKQRVSWTQALRTIVKNCYKQHGREDLLY  
 AFEDQQTQTQATTTTHSIAHLVPSQTVVQTFSNPDGTVSLIQVGTGATVATLADASELPPTVTVAQVNYSA  
 VADGEVEQNWATLQGGEMTIQTTQASEATQAVASLAEAAVAASQEMQQGATVTMALNSEAAAHAVALAE  
 ATLQGGGQIVLSGETAAAVGALTGVDANGLVQIPVSMYQTVVTSLAQNGPVQVAMAPVTRISDSAVT  
 MDGQAVEVVTLEQ

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

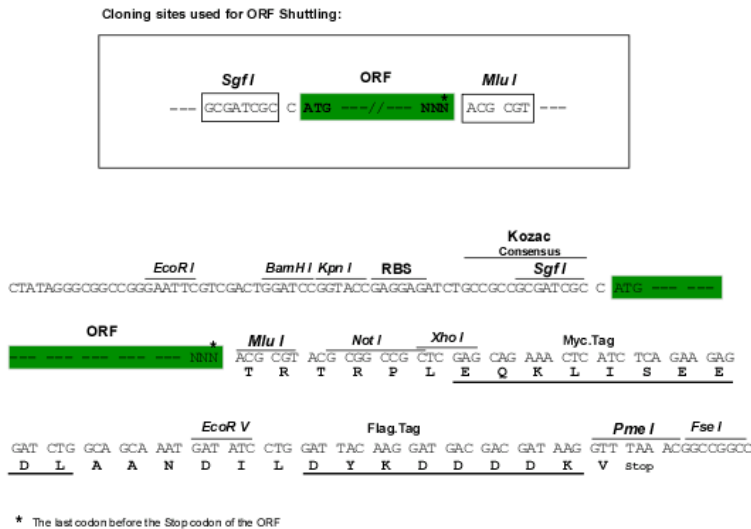
**Chromatograms:**

[https://cdn.origene.com/chromatograms/ja1164\\_h07.zip](https://cdn.origene.com/chromatograms/ja1164_h07.zip)

**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



ACCN: NM\_001164226

ORF Size: 1509 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\\_001164226.1](#), [NP\\_001157698.1](#)

RefSeq Size: 3587 bp

RefSeq ORF: 1512 bp

Locus ID: 18181

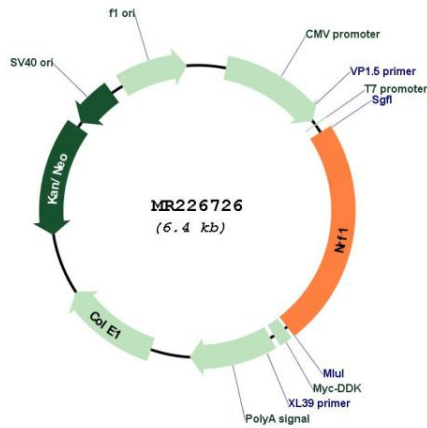
UniProt ID: [Q9WU00](#)

Cytogenetics: 6 12.47 cM

**MW:** 54 kDa

**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 MR226726