

## Product datasheet for **MC216968**

### **Nrf1 (NM\_010938) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Nrf1 (NM_010938) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Nrf1
Synonyms:	C87038; D6Ertd415e
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC216968 representing NM\_010938  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGGAGCACGGAGTGACCCAACTGAACACATGGCTACCATAGAAGCCCATGCAGTGGCCAGCAAG  
 TCCAGCAGGTCCATGTAGCCACGTACACTGAGCACAGTATGCTAAGTGCTGATGAAGACTCCCCTTCCTC  
 CCCCAGGACACTTCTTATGATGACTCGGACATCCTCAACTCCACGGCAGCTGATGAGGTAAGTCCCAT  
 CTGGCTGCTGCAGGTCCTGTGGGAATGGCCGCTGCTGCTGCTGTGGCAACAGGGAAGAAACGGAAACGGC  
 CTCATGTGTTGAGTCTAATCCATCTATCCGAAAGAGACAGCAGACACGTTTGCTTCGAAACTCAGAGC  
 CACGTTGGATGAGTACACGACGCGAGTGGGACAGCAAGCGATTGTACTCTGCATCTACCCTCCAAACCC  
 AACCTGTCTTCAAGGTGTTGGCGCAGCACCTTTGGAGAATGTGGTGCAGAAAGTACAAGAGCATGATCC  
 TGAAGACCTCGAGTCTGCTCTGGCAGAACACGCCCTGCGCCACAGGAGTTAATTCAGAGCTGCCGCC  
 TCTCACCATCGATGGGATTCCAGTCTCTGTGGACAAAATGACCCAGGCTCAGCTTCGGGCATTTATCCCA  
 GAGATGCTCAAGTATCCACAGGTCCGGGGAAACCAAGGCTGGGGGAAAGAAAGCTGCAAGCTATCTGGT  
 GGCCAGAAGATATCCCATGGGCCAATGTCCGCAGTGATGTCCGCACAGAAGAGCAAAAAACAAAGGTTTC  
 ATGGACCCAGGCATTACGGACCATAGTTAAAAATTGCTATAAGCAACATGGGCGGGAGGATCTTTTATAT  
 GCTTTTGAAGTCAGCAAAACAAAACTCAGGCCACCACCACACAGTATAGTCTCATCTCGTACCATCAC  
 AGACCGTAGTACAGACCTTCAGCAACCCGTGATGGCACCCTGTCGCTCATCCAGGTTGGTACAGGGGCAAC  
 AGTAGCCACATTTGGCTGATGCTTCAGAAGTCCAAACACAGTCACTGTTGCCAAGTGAATTACTCTGCT  
 GTGGCTGATGGAGAGGTGAACAAAACTGGGCCACGTTACAGGGCGGTGAAATGACCATCCAGAGATGCA  
 AAGCATCAGAGGCCACCCAGGCGGTAGCATCACTGGCAGAAGCCGAGTGGCAGCTTCTCAGGAGATGCA  
 GCAGGGGACCACTGTACCATGGCCCTCAACAGTGAAGCTGCCGCCATGCTGTGCCACTCTGGCGGAA  
 GCCACCTTACAAGGTGGGGGACAGATAGTCTGTCTGGGAAACCGCAGCAGCCGTCGGAGCACTTACTG  
 GAGTCCAAGATGCTAATGGCCTGGTCCAGATCCCTGTGAGCATGTACCAGACTGTGGTAACCAGCCTCGC  
 CCAGGGCAACGGGCCGCTGCAGGTGGCCATGGCCCCAGTGACCACCAGGATATCGGACAGCGCAGTACC  
 ATGGATGGCCAGGCTGTGGAGGTGGTACCTTGGAAACAGTAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-MluI

**ACCN:** NM\_010938

**Insert Size:** 1512 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_010938.4](#), [NP\\_035068.3](#)

**RefSeq Size:** 3584 bp

**RefSeq ORF:** 1512 bp

**Locus ID:** 18181

**UniProt ID:** [Q9WU00](#)

**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]  
Transcript Variant: This variant (6) uses an alternate splice site in the 5' UTR, compared to variant 1. Variants 1 and 6 encode the same protein (isoform a).