

Product datasheet for **MC215955**

Nrf1 (NM_001164228) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nrf1 (NM_001164228) 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: >MC215955 representing NM_001164228
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGGAGCACGGAGTGACCCAACTGAACACATGGCTACCATAGAAGCCCATGCAGTGGCCAGCAAG
TCCAGCAGGTCCATGTAGCCACGTACACTGAGCACAGTATGCTAAGTGCTGATGAAGACTCCCTTCCTC
CCCCGAGGACACTTCTTATGATGACTCGGACATCCTCAACTCCACGGCAGCTGATGAGGTAAGTCCCAT
CTGGCTGCTGCAGGTCCTGTGGGAATGGCCGCTGCTGCTGCTGTGGCAACAGGGAAGAAACGAAACGGC
CTCATGTGTTGAGTCTAATCCATCTATCCGAAAGAGACAGCAGACAGTTCGCTTCGAAACTCAGAGC
CACGTTGGATGAGTACACGACGCGAGTGGGACAGCAAGCGATTGTACTCTGCATCTACCCTCCAAACCC
AACCTGTCTTCAAGGTGTTGGCGCAGCACCTTTGGAGAATGTGGTGCAGAAAGTACAAGAGCATGATCC
TGAAGACCTCGAGTCTGCTCTGGCAGAACACGCCCTGCGCCACAGGAGGTTAATTCAGAGCTGCCGCC
TCTCACCATCGATGGGATTCCAGTCTCTGTGGACAAAATGACCCAGGCTCAGTTCGGGCATTTATCCCA
GAGATGCTCAAGTATCCACAGGTCGGGGGAAACAGGCTGGGGGAAAGAAAGTCAAGCTATCTGGT
GGCCAGAAGATATCCCATGGGCCAATGTCCGCAGTGATGTCCGCACAGAAGAGCAAAAAACAAAGGTTTC
ATGGACCCAGGCATTACGGACCATAGTTAAAAATTGCTATAAGCAACATGGGCGGGAGGATCTTTTATAT
GCTTTTGAAGTCAGCAAAACAAAACACTCAGGCCACCACACACAGTATAGCTCATCTCGTACCATCAC
AGACCGTAGTACAGACCTTCAGCAACCCGTATGGCACCCTGTCGCTCATCCAGGTTGGTACAGGGGCAAC
AGTAGCCACATTGGCTGATGCTTCAAGACTGCCAACACAGTCACTGTTGCCAAGTGAATTACTCTGCT
GTGGCTGATGGAGAGGTGAACAAAACACTGGGCCACGTTACAGGGCGGTGAAATGACCATCCAGACGACGC
AAGCATCAGAGGCCACCCAGGCGGTAGCATCACTGGCAGAAGCCGAGTGGCAGCTTCTCAGGAGATGCA
GCAGGGAGCCACTGTCCCATGGCCCTCAACAGGCCAGATGGAGTTTCATGCATGGACCATCAGCAAAGC
CGTGACGGCTCCTCAGGCTGCAGGAAAGATTTCATACAGATTTTGGAAAGGGATTCTTATGGCGGAAGTA
ATGAAAGACGAAGATCT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001164228

Insert Size: 1350 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_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]

Transcript Variant: This variant (3) uses an alternate splice site in the 5' UTR, lacks a 3' coding exon, and contains an alternate exon in the 3' coding region which results in a frameshift and early stop codon, compared to variant 1. This results in a distinct and shorter C-terminus in isoform c, compared to isoform a.