OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MC217571

Nrf1 (NM_001164229) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nrf1 (NM_001164229) 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

View online »

Fully Sequenced ORF:

>MC217571 representing NM_001164229
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGAGCACGGAGTGACCCAAACTGAACACATGGCTACCATAGAAGCCCATGCAGTGGCCCAGCAAG
TCCAGCAGGTCCATGTAGCCACGTACACTGAGCACAGTATGCTAAGTGCTGATGAAGACTCCCCTTCCTC
CCCCGAGGACACTTCTTATGATGACTCGGACATCCTCAACTCCACGGCAGCTGATGAGGTAACTGCCCAT
CTGGCTGCTGCAGTGCTGGGGATCAAACCCAGGGCCTCGCATATACTAGGTCCTGTGGGAATGGCCGCTG
CTGCTGCTGTGGCAACAGGGAAGAAACGGAAACGGCCTCATGTGTTTGAGTCTAATCCATCTATCCGAAA
GAGACAGCAGACACGTTTGCTTCGGAAACTCAGAGCCACGTTGGATGAGTACACGACGCGAGTGGGACAG
CAAGCGATTGTACTCTGCATCTCACCCTCCAAACCCAACCCTGTCTTCAAGGTGTTTGGCGCAGCACCTT
TGGAGAATGTGGTGCGAAAGTACAAGAGCATGATCCTGGAAGACCTCGAGTCTGCTCTGGCAGAACACGC
CCCTGCGCCACAGGAGGTTAATTCAGAGCTGCCGCCTCTCACCATCGATGGGATTCCAGTCTCTGTGGAC
AAAATGACCCAGGCTCAGCTTCGGGCATTTATCCCAGAGATGCTCAAGTATTCCACAGGTCGGGGGAAAC
CAGGCTGGGGGAAAGAAAGCTGCAAGCCTATCTGGTGGCCAGAAGATATCCCATGGGCCAATGTCCGCAG
TGATGTCCGCACAGAAGAGCAAAAACAAAGGGTTTCATGGACCCAGGCATTACGGACCATAGTTAAAAAT
TGCTATAAGCAACATGGGCGGGAGGATCTTTTATATGCTTTTGAAGATCAGCAAACACAAACTCAGGCCA
CCACCACACACAGTATAGCTCATCTCGTACCATCACAGACCGTAGTACAGACCTTCAGCAACCCTGATGG
CACCGTGTCGCTCATCCAGGTTGGTACAGGGGCAACAGTAGCCACATTGGCTGATGCTTCAGAACTGCCA
ACCACAGTCACTGTTGCCCAAGTGAATTACTCTGCTGTGGCTGATGGAGAGGTGGAACAAAACTGGGCCA
CGTTACAGGGCGGTGAAATGACCATCCAGACGACGCAAGCATCAGAGGCCACCCAGGCGGTAGCATCACT
GGCAGAAGCCGCAGTGGCAGCTTCTCAGGAGATGCAGCAGGGAGCCACTGTCACCATGGCCCTCAACAGT
GAAGCTGCCGCCCATGCTGTCGCCACTCTGGCGGAAGCCACCTTACAAGGTGGGGGACAGATAGTCCTGT
CTGGGGAAACCGCAGCAGCCGTCGGAGCACTTACTGGAGTCCAAGATGCTAATGGCCTCGGATCCCCTGT
GCTTCCAGAAATCATGGCCTCCAAGACCAGAGGATACAGGCACTCTTGTGGGAGAGACCTTTATAGGCTT
TTCTCCTTTTTCCTATTATACAGCAAAAATAATGAAAGGATTCTGTTGGCTCCTGCTACCTCAGGCAGCC
CCTGCTTTTATGTCAGAAATATTATCACAATTCGTGTGGGTATCTTATCTTCCTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001164229

Insert Size: 1596 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_001164229.1, NP_001157701.1
RefSeq Size:	2651 bp
RefSeq ORF:	1596 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 (4) contains an alternate exon in the 5' UTR, contains an alternate 5' 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 longer C-terminus in isoform d, compared to isoform a.