

Product datasheet for **MR226735**

Nrf1 (NM_001164229) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nrf1 (NM_001164229) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nrf1
Synonyms:	C87038; D6Ertd415e
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR226735 representing NM_001164229
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGGAGCACGGAGTGACCCAACTGAACACATGGCTACCATAGAAGCCCATGCAGTGGCCAGCAAG
 TCCAGCAGGTCCATGTAGCCACGTACACTGAGCACAGTATGCTAAGTGCTGATGAAGACTCCCTTCTC
 CCCCAGGACACTTCTTATGATGACTCGGACATCCTCACTCCACGGCAGCTGATGAGGTAAGTCCCAT
 CTGGCTGCTGCAGTGTGGGATCAAACCCAGGGCCTCGCATATACTAGGTCCTGTGGGAATGGCCGCTG
 CTGCTGCTGTGGCAACAGGGAAGAAACGGAAACGGCCTCATGTGTTTGTAGTCTAATCCATCTATCCGAAA
 GAGACAGCAGACAGTCTTCTCGGAACTCAGAGCCACGTTGGATGAGTACACGACGCGAGTGGGACAG
 CAAGCGATTGACTCTGCATCTCACCTCAAACCCAACCCTGTCTTCAAGGTGTTTGGCGCAGCACCTT
 TGGAGAATGTGGTGCAGAAAGTACAAGAGCATGATCCTGGAAGACCTCGAGTCTGCTCTGGCAGAACAGC
 CCCTGCGCCACAGGAGGTTAATTCAGAGCTGCCGCTCTCACCATCGATGGGATCCAGTCTCTGTGGAC
 AAAATGACCCAGGCTCAGCTTCCGGCATTATCCAGAGATGCTCAAGTATCCACAGGTCGGGGGAAAC
 CAGGCTGGGGAAAGAAAGCTGCAAGCCTATCTGGTGGCCAGAAGATATCCCATGGGCAATGTCCGCAG
 TGATGTCCGCACAGAAGAGCAAAAAAAAGGGTTTCATGGACCCAGGCATTACGGACCATAGTAAAAAT
 TGCTATAAGCAACATGGGCGGGAGGATCTTTTATATGCTTTTGAAGATCAGCAACACAAACTCAGGCCA
 CCACCACACAGTATAGCTCATCTCGTACCATCACAGACCGTAGTACAGACCTTCAGCAACCCTGATGG
 CACCGTGTGCTCATCCAGGTTGGTACAGGGGCAACAGTAGCCACATTGGCTGATGCTTCAGAAGTCCCA
 ACCAGTCACTGTTGCCAAGTGAATTACTCTGCTGTGGCTGATGGAGAGGTGGAACAAAAGTGGGCCA
 CGTTACAGGGCGGTGAAATGACCATCCAGACGACGCAAGCATCAGAGGCCACCCAGGCGGTAGCATCT
 GGCAGAAGCCGCGAGTGGCAGCTTCTCAGGAGATGCAGCAGGGAGCCACTGTCAACATGGCCCTCAACAGT
 GAAGCTGCCGCCATGCTGTGCCACTCTGGCGAAGCCACCTTACAAGTGGGGACAGATAGTCTGT
 CTGGGAAACCGCAGCAGCCGTCGGAGCACTTACTGGAGTCCAAGATGCTAATGGCTCGGATCCCTGT
 GCTTCCAGAAATCATGGCCTCCAAGACCAGAGGATACAGGCACTTGTGGGAGAGACCTTTATAGGCTT
 TTCTCCTTTTCTATTATACAGCAAAAATAATGAAAGGATTCTGTTGGCTCCTGCTACCTCAGGCAGCC
 CCTGCTTTTATGCAGAAATATTATCACAATTCGTGTGGGTATCTTATCTTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR226735 representing NM_001164229
 Red=Cloning site Green=Tags(s)

MEEHGVTQTEHMTIEAHAVAQQVQVHVATYTEHSMLSADESPSSPEDTSYDDSDILNSTAADEVTAH
 LAAAVLGIKPRASHILGPVGMAAAAAVATGKKRKRPHVFESNPSIRKRQQTRLLRKLRLATLDEYTRRVGQ
 QAIIVLCISPSKPNPVFKVFGAAPLENVVRKYKSMILEDLESALAEHAPAPQEVNSELPLLTIDGIPVSVD
 KMTQAQLRAFIPPEMLKYSTGRGKPGWGKESCKPIWWPEDIPWANVRSVDRTEEQKQRVSWTQALRTIVKN
 CYKQHGRELLYAFEDQQTQTQATTTTHSIAHLVPSQTVVQTFSNPDGTVSLIQVGTGATVATLADASELP
 TTVTVAQVNYSAVADGEVEQNWATLQGGEMTIQTTQASEATQAVASLAEAAVAASQEMQQGATVTMALNS
 EAAAHAVATLAEATLQGGGQIVLSGETAAAVGALTGVQDANGLGSPVLPPEIMASKTRGYRHSCGRDLRL
 FSFFLLYSKNNERILLAPATSGSPCFYVRNIITIRVGILSS

TRTRPLEQ**KL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

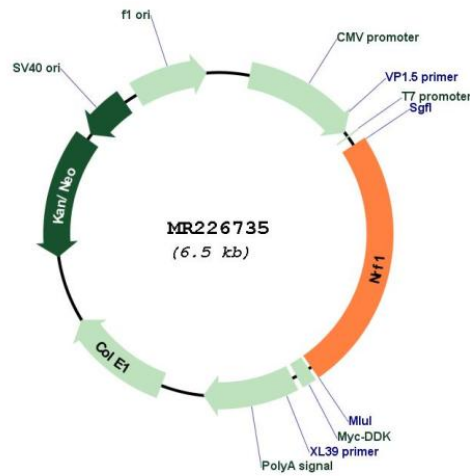
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_001164229
ORF Size:	1593 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:	<ol style="list-style-type: none">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
MW:	57.5 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]