

Product datasheet for **MR226739**

Nrf1 (NM_001164230) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nrf1 (NM_001164230) 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:

>MR226739 representing NM_001164230
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGAGCACGGAGTGACCCAACTGAACACATGGCTACCATAGAAGCCCATGCAGTGGCCAGCAAG
 TCCAGCAGGTCCATGTAGCCACGTACACTGAGCACAGTATGCTAAGTGCTGATGAAGACTCCCCTTCTC
 CCCCAGGACACTTCTTATGATGACTCGGACATCCTCACTCCACGGCAGCTGATGAGGTAAGTCCCAT
 CTGGCTGCTGCAGGTCCTGTGGGAATGGCCGCTGCTGCTGCTGTGGCAACAGGGAAGAAACGGAAACGGC
 CTCATGTGTTGAGTCTAATCCATCTATCCGAAAGAGACAGCAGACACGTTTGCTTCGAAACTCAGAGC
 CACGTTGGATGAGTACACGACGCGAGTGGGACAGCAAGCGATTGTACTCTGCATCTACCCTCCAAACCC
 AACCTGTCTTCAAGGTGTTGGCGCAGCACCTTTGGAGAATGTGGTGCAGAAAGTACAAGAGCATGATCC
 TGAAGACCTCGAGTCTGCTCTGGCAGAACACGCCCTGCGCCACAGGAGTTAATTAGAGCTGCCGCC
 TCTACCATCGATGGGATTCCAGTCTCTGTGGACAAAATGACCCAGGCTCAGCTTCGGGCATTTATCCCA
 GAGATGCTCAAGTATCCACAGGTCGGGGGAAACCAAGGCTGGGGGAAAGAAAGCTGCAAGCCTATCTGGT
 GGCCAGAAGATATCCCATGGGCCAATGTCCGCAGTGATGTCCGCACAGAAGAGCAAAAAACAAAGGTTTC
 ATGGACCCAGGCATTACGGACCATAGTTAAAAATTGCTATAAGCAACATGGGCGGGAGGATCTTTTATAT
 GCTTTTGAAGATCAGCAAAACAAAACACTCAGGCCACCACACACAGTATAGCTCATCTCGTACCATCAC
 AGACCGTAGTACAGACCTTCAGCAACCCGTATGGCACCCTGTCGCTCATCCAGGTTGGTACAGGGGCAAC
 AGTAGCCACATTTGGCTGATGCTTCAAGACTGCCAACACAGTCACTGTTGCCAAGTGAATTACTCTGCT
 GTGGCTGATGGAGAGGTGAACAAAACACTGGGCCACGTTACAGGGCGGTGAAATGACCATCCAGAGATGCA
 AAGCATCAGAGGCCACCCAGGCGGTAGCATCACTGGCAGAAAGCCGAGTGGCAGCTTCTCAGGAGATGCA
 GCAGGGAGCCACTGTACCATGGCCCTCAACAGTGAAGCTGCCGCCATGCTGTCCGCACTCTGGCGGAA
 GCCACCTTACAAGGTGGGGGACAGATAGTCTGTCTGGGAAACCGCAGCAGCCGTCGGAGCACTTACTG
 GAGTCCAAGATGCTAATGGCCTCGGATCCCTGTGCTTCCAGAAATCATGGCCTCCAAGACCAGAGGATA
 CAGGCACTCTTGTGGGAGAGACCTTTATAGGCTTTTCTCCTTTTCTATTATACAGCAAAAATAATGAA
 AGGATTCTGTTGGCTCCTGCTACCTCAGGCAGCCCTGCTTTTATGTCAGAAATATTATCACAATTCGTG
 TGGTATCTTATCTTCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR226739 representing NM_001164230
 Red=Cloning site Green=Tags(s)

MEEHGVTQTEHMTIEAHAVAQQVQVHVATYTEHSMLSADESPSSPEDTSYDDSDILNSTAADEVTAH
 LAAAGPVGMAAAAATGKKRKRPHVFESNPSIRKRQQRLLRKLRLATLDEYTRVGGQQAIVLCISPSKP
 NPVFKVFGAAPLENVVRKYKSMILEDLESALAEHAPAPQEVNSELPLTIDGIPVSVDKMTQAQLRAFIP
 EMLKYSTGRGKPGWGKESCKPIWWPEDIPWANVRSVDRTEEKQQRVSWTQALRTIVKNCYKQHGREDLLY
 AFEDQQTQTQATTTSHIAHLVPSQTVVQTFSNPDGTVSLIQVGTGATVATLADASELPPTVTVAQVNYSA
 VADGEVEQNWATLQGGEMTIQTTQASEATQAVASLAEEAQAASQEMQQGATVTMALNSEAAAHAVATLAE
 ATLQGGGQIVLSGETAAAVGALTVQDANGLGSPVLPPEIMASKTRGRYRHSGRDLYRLFSSFFLLYSKNNE
 RILLAPATSGSPCFYVRNIITIRVGILSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

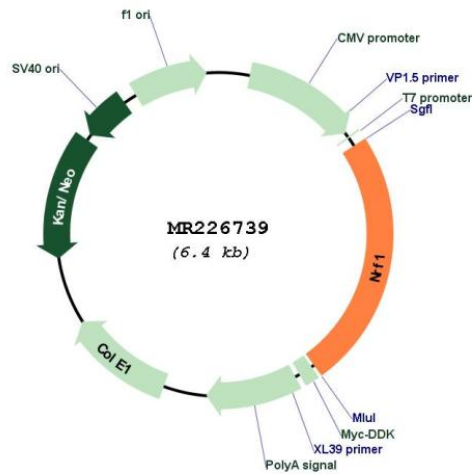
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:	NM_001164230
ORF Size:	1557 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_001164230.1 , NP_001157702.1
RefSeq Size:	2574 bp
RefSeq ORF:	1560 bp
Locus ID:	18181
Cytogenetics:	6 12.47 cM
MW:	56.3 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]