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Product datasheet for MR226730

Nrf1 (NM_001164228) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nrf1 (NM_001164228) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nrf1
Synonyms:	C87038; D6Ertd415e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

View online »

ORF Nucleotide Sequence:

>MR226730 representing NM_001164228
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGAGGAGCACGGAGTGACCCAAACTGAACACATGGCTACCATAGAAGCCCATGCAGTGGCCCAGCAAG
TCCAGCAGGTCCATGTAGCCACGTACACTGAGCACAGTATGCTAAGTGCTGATGAAGACTCCCCTTCCTC
CCCCGAGGACACTTCTTATGATGACTCGGACATCCTCAACTCCACGGCAGCTGATGAGGTAACTGCCCAT
CTGGCTGCTGCAGGTCCTGTGGGAATGGCCGCTGCTGCTGCTGTGGCAACAGGGAAGAAACGGAAACGGC
CTCATGTGTTTGAGTCTAATCCATCTATCCGAAAGAGACAGCAGACACGTTTGCTTCGGAAACTCAGAGC
CACGTTGGATGAGTACACGACGCGAGTGGGACAGCAAGCGATTGTACTCTGCATCTCACCCTCCAAACCC
AACCCTGTCTTCAAGGTGTTTGGCGCAGCACCTTTGGAGAATGTGGTGCGAAAGTACAAGAGCATGATCC
TGGAAGACCTCGAGTCTGCTCTGGCAGAACACGCCCCTGCGCCACAGGAGGTTAATTCAGAGCTGCCGCC
TCTCACCATCGATGGGATTCCAGTCTCTGTGGACAAAATGACCCAGGCTCAGCTTCGGGCATTTATCCCA
GAGATGCTCAAGTATTCCACAGGTCGGGGGAAACCAGGCTGGGGGAAAGAAAGCTGCAAGCCTATCTGGT
GGCCAGAAGATATCCCATGGGCCAATGTCCGCAGTGATGTCCGCACAGAAGAGCAAAAACAAAGGGTTTC
ATGGACCCAGGCATTACGGACCATAGTTAAAAATTGCTATAAGCAACATGGGCGGGAGGATCTTTTATAT
GCTTTTGAAGATCAGCAAACACAAACTCAGGCCACCACCACACACAGTATAGCTCATCTCGTACCATCAC
AGACCGTAGTACAGACCTTCAGCAACCCTGATGGCACCGTGTCGCTCATCCAGGTTGGTACAGGGGCAAC
AGTAGCCACATTGGCTGATGCTTCAGAACTGCCAACCACAGTCACTGTTGCCCAAGTGAATTACTCTGCT
GTGGCTGATGGAGAGGTGGAACAAAACTGGGCCACGTTACAGGGCGGTGAAATGACCATCCAGACGACGC
AAGCATCAGAGGCCACCCAGGCGGTAGCATCACTGGCAGAAGCCGCAGTGGCAGCTTCTCAGGAGATGCA
GCAGGGAGCCACTGTCACCATGGCCCTCAACAGGCCCAGATGGAGTTCATGCATGGACCATCAGCAAAGC
CGTGACGGCTCCTCAGGCTGCAGGAAAGATTCATACAGATTTTGGAAAGGGATTCATTATGGCGGAAGTA
ATGAAAGACGAAGATCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

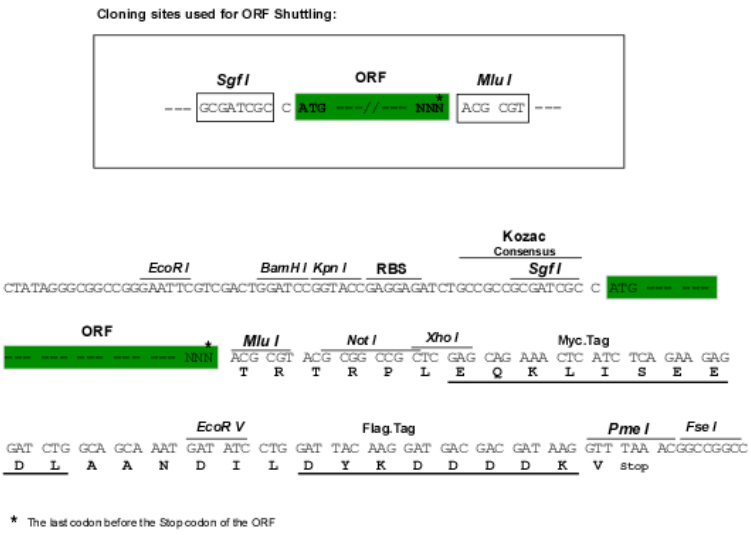
>MR226730 representing NM_001164228
Red=Cloning site Green=Tags(s)

MEEHGVTQTEHMATIEAHAVAQQVQQVHVATYTEHSMLSADEDSPSSPEDTSYDDSDILNSTAADEVTAH
LAAAGPVGMAAAAAVATGKKRKRPHVFESNPSIRKRQQTRLLRKLRATLDEYTTRVGQQAIVLCISPSKP
NPVFKVFGAAPLENVVRKYKSMILEDLESALAEHAPAPQEVNSELPPLTIDGIPVSVDKMTQAQLRAFIP
EMLKYSTGRGKPGWGKESCKPIWWPEDIPWANVRSDVRTEEQKQRVSWTQALRTIVKNCYKQHGREDLLY
AFEDQQTQTQATTTHSIAHLVPSQTVVQTFSNPDGTVSLIQVGTGATVATLADASELPTTVTVAQVNYSA
VADGEVEQNWATLQGGEMTIQTTQASEATQAVASLAEAAVAASQEMQQGATVTMALNRPRWSSCMDHQQS
RDGSSGCRKDSYRFWKGIHYGGSNERRRS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001164228

ORF Size: 1347 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:
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

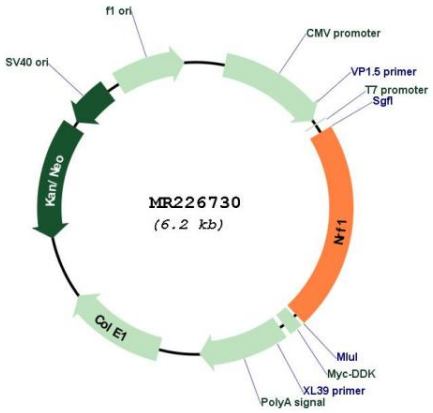
Locus ID: 18181

Cytogenetics: 6 12.47 cM

MW: 49.6 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]

Product images:



Circular map for MR226730