

Product datasheet for **MG208550**

Nrf1 (BC005410) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nrf1 (BC005410) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nrf1
Synonyms:	C87038; D6Ertd415e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208550 representing BC005410
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGAGGAGCACGGAGTGACCCAACTGAACACATGGCTACCATAGAAGCCCATGCAGTGGCCAGCAAG
 TCCAACAGGTCCATGTAGCCACGTACACTGAGCACAGTATGCTAAGTGCTGATGAAGACTCCCTTCTC
 CCCCAGGACACTTCTTATGATGACTCGGACATCCTCACTCCACGGCAGCTGATGAGGTAAGTCCCAT
 CTGGCTGCTGCAGGTCCTGTGGGAATGGCCGCTGCTGCTGCTGTGGCAACAGGGAAGAAACGAAACGGC
 CTCATGTGTTGAGTCTAATCCATCTATCCGAAAGAGACAGCAGACACGTTTGCTTCGAAACTCAGAGC
 CACGTTGGATGAGTACACGACGCGAGTGGGACAGCAAGCGATTGTACTCTGCATCTACCCTCCAAACCC
 AACCTGTCTTCAAGGTGTTGGCGCAGCACCTTTGGAGAATGTGGTGCAGAAAGTACAAGAGCATGATCC
 TGAAGACCTCGAGTCTGCTCTGGCAGAACACGCCCTGCGCCACAGGAGTTAATTGAGAGCTGCCGCC
 TCTCACCATCGATGGGATTCCAGTCTCTGTGGACAAAATGACCCAGGCTCAGCTTCGGGCATTTATCCCA
 GAGATGCTCAAGTATCCACAGGTCGGGGGAAACAGGCTGGGGGAAAGAAAGTCAAGCTATCTGGT
 GGCCAGAAGATATCCCATGGGCCAATGTCCGCAGTGATGTCCGCACAGAAGAGCAAAAAACAAAGGTTTC
 ATGGACCCAGGCATTACGGACCATAGTTAAAAATTGCTATAAGCAACATGGGCGGGAGGATCTTTTATAT
 GCTTTTGAAGTACAGCAAAACAAAACACTCAGGCCACCACACACAGTATAGCTCATCTCGTACCATCAC
 AGACCGTAGTACAGACCTTCAGCAACCCGTATGGCACCCTGTCGCTCATCCAGTTGGTACAGGGGCAAC
 AGTAGCCACATTGGCTGATGCTTCAAGACTGCCAACACAGTCACTGTTGCCAAGTGAATTACTCTGCT
 GTGGCTGATGGAGAGGTGAACAAAATTTGGCCACGTTACAGGGCGGTGAAATGACCATCCAGAGATGCA
 AAGCATCAGAGGCCACCCAGGCGGTAGCATCACTGGCAGAAAGCCGAGTGGCAGCTTCTCAGGAGATGCA
 ACAGGGAGCCACTGTACCATGGCCCTCAACAGTGAAGCTGCCGCCATGCTGTCCGCACTCTGGCGGAA
 GCCACCTTACAAGGTGGGGGACAGATAGTCTGTCTGGGAAACCGCAGCAGCCGTCGGAGCACTTACTG
 GAGTCCAAGATGCTAATGGCCCAGATGGAGTTCATGCATGGACCATCAGCAAAGCCGTGACGGCTCCTCA
 GGCTGCAGGAAAGATTTCATACAGATTTTGGAAAGGGATTATTATGGCGGAAGTAAAGAAAGACGAAGT
 CTTAAAGAGGAAAGTTCTGAGAACGCAGCTAAGGCTGCTGGGAAGTACAAACAACAAGGCAGAGCTTACG
 TTGTTGAAGACGGAGATATAATCTTCTTCAAATTAATTTCGCTCAGCAATTAATAAAGAAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG208550 representing BC005410
 Red=Cloning site Green=Tags(s)

MEEHGVTQTEHMATIEAHAVAQQVQVHVATYTEHSMLSAEDSPSSPEDTSYDDSDILNSTAADEVTAH
 LAAAGPVGMAAAAATGKKRKRPHVFESNPSIRKRQQRLLRKLRLATLDEYTRVGGQAIIVLCISPSKP
 NPVFKVFGAAPLENVVRKYKSMILEDLESALAEHAPAQEVNSELPLTIDGIPVSDKMTQAQLRAFIP
 EMLKYSTGRGKPGWGKESCKPIWWPEDIPWANVRSVDRTEEQKQVSWTQALRTIVKNCYKQHGREDLLY
 AFEDQQTQTQATTTTHSIAHLVPSQTVVQTFSNPDGTVSLIQVGTGATVATLADASELPPTVTVAQVNYSA
 VADGEVEQNWATLQGGEMTIQTTQASEATQAVASLAEAAVAASQEMQQGATVTMALNSEAAAHAVALAE
 ATLQGGGQIVLSGETAAAVGALTGVDANGPDGVHAWTISKAVTAPQAAGKIHTDFGKGFIMAEVMKDED
 LKEESSENAAKAAGKYKQGRAYVVEDGDIIFKFNPPQLKKK

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: BC005410

ORF Size: 1604 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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: [BC005410](#), [AAH05410](#)

RefSeq Size: 1767 bp

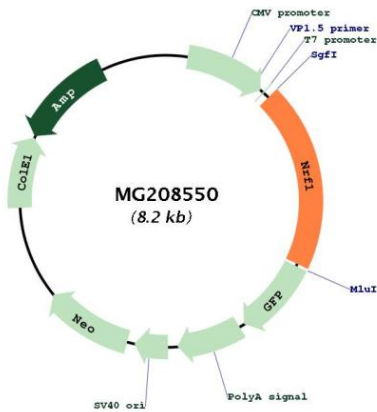
RefSeq ORF: 1604 bp

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]

Product images:



Circular map for MG208550