

Product datasheet for **MC227343**

Nfe2 (NM_001302341) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nfe2 (NM_001302341) Mouse Untagged Clone
Tag: Tag Free
Symbol: Nfe2
Synonyms: NF-E2; NF-E2/P45; p45; p45nf-e2; p45NFE2
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
Fully Sequenced ORF: >MC227343 representing NM_001302341
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCCCCCGTGTCTCTCAGCAGAACAGGAACAGGTTATCACAGCTGCCTGTTGGGGAGCTTGGAGAGA
 TGGAACTGACTTGGCAAGAGATCATGTCCACTGAGCTGCAGGGTCTAAATGTTCCAAGTGAGACATC
 TTTTGAGCCTCAAGCACCCACCCATACCTGGGCCACTGCCACCTCCAACATATTGCCCTGTTC AATT
 CATCCAGATGCAGGCTTCTCCCTCCCCACCATCTTATGAGCTCCAGCATCTACTCCCATGTCCAG
 AACTACCATACTCCTATGGTAATGTAGCCATACCAAGTGTCAAAGCCACTTACCCTTTTCAGGCCTGTCAA
 TGAGCCCCCTCCAGACCCTTAGCTCTCCTGGACATTGGGCTGCCAGTGGGGCAACCCAAGCCCCAAGAA
 GACCCAGAATCTGACTCAGGATTATCCCTCAACTACAGTGATGCAGAATCTTTGAGCTAGAGGGTATGG
 AGGCTGGCAGGCGGAGGAGCGAGTACGCGGACATGTACCCAGTGGAGTATCCTTACTCACTTATGCCAA
 TTCTTTGGCCATCCCACTATACTCTCCACCCACTGAGACACCCTTGGCCTTAGAGTCATCTCCGGT
 CCAGTTCGGGCTAAGCCTGTCTCGTGGGAGGCAGGGAGTGGGACGAGCGGCGAGCCCTGGCCATGA
 AGATTCCCTTCCCTACGGACAAGATAGTTAACTTGGCGTATGACTTTAATGAGTTGTTGGCAGATA
 TCCGCTAACGGAGAGCCAGCTGGCTCTAGTTCGGGACATCCGTCGACGGGGCAAGAACAAGGTGGCAGCC
 CAAAAGTGTGCAAGAGAAAAGTGGAAACCATTGTGCAGCTGGAGCGAGAGCTGGAGCGGCTGAGCAGTG
 AAAGGGAGCGGCTTCTCAGAGCCGAGGGGAGGCTGACCGCACTCTGGAGGTCATGCGCCAAAGCTGGC
 AGAGCTGTACCATGATATTTCCAGCATCTTCGGGATGAATCTGGCAACAGTTACTCACCAGAGGAATAT
 GTACTGCAACAGGCTGCTGATGGTGCCATCTTTCTGGTACCCCGTGAACCAAAATGGAGGCTACAGATT
 GA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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ACCN:	NM_001302341
Insert Size:	1122 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).
OTI Annotation:	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
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:	<u>NM_001302341.1</u> , <u>NP_001289270.1</u>
RefSeq Size:	1509 bp
RefSeq ORF:	1122 bp
Locus ID:	18022
UniProt ID:	<u>Q07279</u>
Cytogenetics:	15 58.62 cM
Gene Summary:	<p>Component of the NF-E2 complex essential for regulating erythroid and megakaryocytic maturation and differentiation. Binds to the hypersensitive site 2 (HS2) of the beta-globin control region (LCR). This subunit (NFE2) recognizes the TCAT/C sequence of the AP-1-like core palindrome present in a number of erythroid and megakaryocytic gene promoters. Requires MAFK or other small MAF proteins for binding to the NF-E2 motif. May play a role in all aspects of hemoglobin production from globin and heme synthesis to procurement of iron. [UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (5) differs in the 5' UTR compared to variant 1. Variants 1, 2, 3, 4, 5 and 6 encode the same protein.</p>