

## Product datasheet for **MC227340**

### **Nfe2 (NM\_001302338) Mouse Untagged Clone**

#### Product data:

<b>Product Type:</b>	Expression Plasmids
<b>Tag:</b>	Tag Free
<b>Symbol:</b>	Nfe2
<b>Synonyms:</b>	NF-E2; NF-E2/P45; p45; p45nf-e2; p45NFE2
<b>Mammalian Cell Selection:</b>	Neomycin
<b>Vector:</b>	pCMV6-Entry (PS10001)
<b>E. coli Selection:</b>	Kanamycin (25 ug/mL)
<b>Fully Sequenced ORF:</b>	>MC227340 representing NM_001302338 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGCCCCCGTGTCCCTCCTCAGCAGAACAGGAACAGGTTATCACAGCTGCCTGTTGGGGAGCTTGGAGAGA  
TGGAACTGACTTGGCAAGAGATCATGTCCATTACTGAGCTGCAGGGTCTAAATGTTCCAAGTGAGACATC  
TTTTGAGCCTCAAGCACCCACCCCATACCTGGGCCACTGCCACCTCCAACATATTGCCCTGTTC AATT  
CATCCAGATGCAGGCTTCTCCCTTCCCCACCATCTTATGAGCTCCCAGCATCTACTCCCCATGTCCCAG  
AACTACCATACTCCTATGGTAATGTAGCCATACCAAGTGTCAAAGCCACTTACCTTTTCAGGCCTGTCAA  
TGAGCCCTCCAGACCACTTAGCTCTCCTGGACATTGGGCTGCCAGTGGGGCAACCAAGCCCCAAGAA  
GACCCAGAATCTGACTCAGGATTATCCCTCAACTACAGTGATGCAGAATCTCTTGAGCTAGAGGGTATGG  
AGGCTGGCAGGCGGAGGAGCGAGTACGCGGACATGTACCCAGTGGAGTATCCTTACTCACTTATGCCAA  
TTCTTTGGCCCATCCCAACTATACTCTCCACCCACTGAGACACCTTGGCCTTAGAGTCATCCTCCGGT  
CCAGTTCGGGCTAAGCCTGCTGTCCGTGGGGAGGAGGAGTCCGGACGAGCGCGAGCCCTGGCCATGA  
AGATTCTTTCCCTACGGACAAGATAGTTAACTTGCCGGTAGATGACTTTAATGAGTTGTTGGCAGAT  
TCCGCTAACGGAGAGCCAGCTGGCTTAGTTCGGGACATCCGTCGACGGGGCAAGAACAAGTGGCAGCC  
CAAACTGTGCAAGAGAAAACCTGGAACCAATTGTGCAGCTGGAGCGAGAGCTGGAGCGGCTGAGCAGTG  
AAAGGGAGCGGCTTCTCAGAGCCCAGGGGAGGCTGACCGCACTCTGGAGGTATGCGCCAACAGCTGGC  
AGAGCTGTACCATGATATTTCCAGCATCTTCGGGATGAATCTGGCAACAGTTACTCACCAGAGGAATAT  
GTACTGCAACAGGCTGCTGATGGTGCCATCTTTCTGGTACCCCGTGAACCAAAATGGAGGCTACAGATT  
GA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



<b>Restriction Sites:</b>	Sgfl-Mlul
<b>ACCN:</b>	NM_001302338
<b>Insert Size:</b>	1122 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_001302338.1</a> , <a href="#">NP_001289267.1</a>
<b>RefSeq Size:</b>	1896 bp
<b>RefSeq ORF:</b>	1122 bp
<b>Locus ID:</b>	18022
<b>UniProt ID:</b>	<a href="#">Q07279</a>
<b>Cytogenetics:</b>	15 58.62 cM

**Gene Summary:**

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]

Transcript Variant: This variant (1) represents the longest transcript. Variants 1, 2, 3, 4, 5 and 6 encode the same protein.