

Product datasheet for **RN210647**

Nfe2 (NM_001012224) Rat Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nfe2 (NM_001012224) Rat Untagged Clone
Tag: Tag Free
Symbol: Nfe2
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Fully Sequenced ORF: >RN210647 representing NM_001012224
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCCCCGTGTCTCCCCAGCCAAACAGAAACAGATTACCACAGCTGCCTACTGGGGAGCTTGGAGAGA
TGGAACTGACTTGGCAAGAGATCATGTCCATTACTGAGCTGCAGGGTCTAAATGTTCCAAGTGAGCCATC
TTTTGAGCCTCAAGCACCCACCCATACCCCTGGGCCACTGCCACCTCCAACATACTGCCCTGTTC AATT
CATCCAGATGCAGGCTTCACCCCTCCTCCACCACCTTATGAGCTCCCAGCATCCACTCCCCATGCTCCAG
ACCTCCCATACTCCTATGGCAACATAGCCATACCCGTGTCAAAGCCACTTACCCTTCAGGCTGTCAA
TGAGCCCTCCCAGACCCCTTAGCTCTCTTGGACATTGGGCTGCCAGTGGGGCAACCCAAGCCCCAAGAA
GATCCAGAATCTGACTCGGGATTATCCCTCAACTACAGCGATGCAGAATCTCTTGGAGCTAGAAGGTACAG
AGGCTGGCAGGCGGAGGAGCGAGTATGTGGACATGTACCCGGTGGAGTACCCTTACTCACTTATGCCCAA
CTCTTTGGCCACCCCAACTATACTCTTCCGCCACTGAAACACCCTTGGTCTTAGAGTCATCTCCGGT
CCAGTGCAGGCTAAGCCTGCTGTCCGTGGGGAGGCAGGGAGTCCGGATGAGCGGCGGGCCCTGGCCATGA
AGATTCTTTCCCTACGGACAAGATAGTAACTTGCCGGTAGATGACTTTAATGAGTTGTTGGCACAGTA
TCCGCTAACGGAGAGCCAGCTGGCTCTAGTTCGGGACATCCGTCCGGGGCAAGAACAAGTGGCAGCC
CAGAAGTGTGCAAGAGAAAAGTGGAAACCATTGTGCAGTTGGAGCGAGAGCTGGAGCGGCTGGGCAGTG
AAAGGGAGCGGCTCCTCAGAGCCAGAGGGGAGGCTGACCCCACTCTGGAGGTCATGCGCCAACAGCTGAC
AGAGCTGTACCATGATATTTCCAGCATCTTCGGGATGAATCTGGCAACAGTTATTCACCGAGGGAATAT
GTACTGCAACAGGCTGCTGATGGGGCCATCTTTCTGGTACCCCGTGGGACCAAAATGGAGGCCACAGATT
GA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI



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ACCN:	NM_001012224
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).
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_001012224.1</u> , <u>NP_001012224.1</u>
RefSeq Size:	1684 bp
RefSeq ORF:	1122 bp
Locus ID:	366998
UniProt ID:	<u>Q6AYT2</u>
Cytogenetics:	7q36
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 (By similarity).[UniProtKB/Swiss-Prot Function]