

Product datasheet for **SC122739**

Nuclear Factor Erythroid Derived 2 (NFE2) (NM_006163) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nuclear Factor Erythroid Derived 2 (NFE2) (NM_006163) Human Untagged Clone
Tag:	Tag Free
Symbol:	Nuclear Factor Erythroid Derived 2
Synonyms:	NF-E2; p45
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_006163 edited
 GTGCGCCTGCTTGGGGCTCTGTGCTCAGCTCAGCCTGAGCTTCCACACTCAGCGCTCAG
 CAATGGCCCGGGGGCGGGGCGGGTCTCGCAGATTCTCAAAGGTAGCCGGGATCCTCGT
 CCAGCAGTGTGCTCAGCTCAGGCTCAGCCTCCCCAGAGACAACACCGGGAGCCTCATCTCTCT
 CCTCACCTGTGTGACTCCACCACAGGTTTCTAGAGCCATCTGGGCTTTCGGGAACT
 GGACCAGACTCTGGCCAGTAGGATGTCCCGTGTCTCCACAGCAGAGCAGGAACAGGG
 TGATACAGCTGTCCACTTCAGAGCTAGGAGAGATGGAACAGTACTGGCAGGAGATCATGT
 CCATACCGAGCTGCAGGTCTGAATGCTCCAAGTGAGCCATCATTTGAGCCCCAAGCCC
 CAGCTCCATACCTTGACCTCCACCACCCACAACCTACTGCCCTGCTCAATCCACCCAG
 ATTCTGGCTTCCCACTTCTCCACCACCTATGAGCTCCCAGCATCCACATCCCATGTCC
 CAGATCCCCATACTCTATGGCAACATGGCCATACCAGTCTCCAAGCCACTGAGCCTCT
 CAGGCCTGCTCAGTGAGCCGCTCAAGACCCCTTAGCCCTCTGGACATTGGGCTGCCAG
 CAGGGCCACTAAGCCCCAAGAAGACCCAGAATCCGACTCAGGATTATCCCTCAACTATA
 GCGATGTGAATCTTTGAGCTGGAGGGGACAGAGGCTGGTCGGCGGCGCAGCGAATATG
 TAGAGATGTACCCAGTGGAGTACCCCTACTCACTCATGCCCAACTCCTTGCCCCACTCCA
 ACTATACCTTGCCAGCTGCTGAGACCCCTTGGCCTTAGAGCCCTCCTCAGGCCCTGTGC
 GGGCTAAGCCCACTGCACGGGGGAGGCAGGGAGTCGGGATGAACGTCCGGCCTTGGCCA
 TGAAGATTCTTTTCTACGGACAAGATTGTCAACTTGCCGGTAGATGACTTTAATGAGC
 TATTGGCAAGGTACCCGCTGACAGAGAGCCAGCTAGCGCTAGTCCGGGACATCCGACGAC
 GGGGCAAAAACAAGGTGGCAGCCAGAAGTCCGCAAGAGGAAGTGGAAACCATTTGTGC
 AGCTGGAGCGGGAGCTGGAGCGGCTGACCAATGAACGGGAGCGGCTTCTCAGGGCCCGG
 GGGAGGCAGACCGGACCTGGAGGTGATGCGCCAACAGCTGACAGAGCTGTACCGTGACA
 TTTTCCAGCACCTTCGGGATGAATCAGGCAACAGCTACTCTCTGAAGAGTACCGGCTGC
 AACAGGTGCCGATGGGACCATCTTCTTGTGCCCGGGGGACCAAGATGGAGGCCACAG
 ACTGAGCTGGCCAGAGGGGTGGAAGTGTGATGGGATTTCTTTCATTCCCTTCTGATAA
 AGGTACTCCCAACCCTGAGTCCCAGAAGGAGCTGAGTTCTTAGACCAGAAGAGGATGA
 CAATGGCAACAAGTGTGGAAAGTTCCAAGGTGTGTTCAAAGAGGCTTGCCTTGAGGGAG
 GGCTGGAATCTGTCTTCCCTGACTCGGCTCCTCAGGTCTTAGCCTCCACCTGTCTAAG
 CTTTGGTCTATAAAGTGCCTACAGAAAAAAAAAAAAAAAAAAAAA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_006163 unedited
 NGAGACTTCATTTGTATACGACTTATATAGGGCGGCCGCGATTCCGGCACGAGGTGCGCC
 TGTTTTGGGGTCTCTGTGCTCAGCTCAGCCTGAGCTTCCACACTCAGCGCTCAGCAATGGC
 CCGGGGGCGGGGCGGGTCTCGCAGATTCTCAAAGGTAGCCGGGATCCTCGTCCAGCAG
 TGTGCTCAGGCTCAGCCTCCCCAGAGACAACACCGGGAGCCTCATCTCTCTCCTCACC
 CTGCTGTGACTCCACCACATGTTTCTAGAGCCATCTGGGCTTTCGGGAACTGGACCAG
 ACTCTGGCCCAAGTAGGATGTCCCGTGTCTCCACAGCAGAGCAGGAACAGGGTGATACA
 GCTGTCCACTTCAGAGCTAGGAGAGATGGAACAGTACTGGCAGGAGATCATGTCCATCAC
 CGAGCTGCAGGGTCTGAATGCTCCAAGTGAGCCATCATTTGAGCCCCAAGCCCCAGCTCC
 ATACCTTGACCTCCACCACCCACAACCTACTGCCCTGCTCAATCCACCCAGATTCTGG
 CTTCCCACTTCTCCACCACCTATGAGCTCCCAGCATCCACATCCCATGTCCCAGATCC
 CCCATACTCTATGGCAACATGGCCATACCAGTCTCCAAGCCACTGAGCCTCTCAGGCT
 GCTCAGTGAGCCGCTCAAGACCCCTTAGCCCTCTGGACATTGGGCTGCCAGCAGGGCC
 ACCTAAGCCCCAAGAAGACCCAGAATCCGACTCAGGATTATCCCTCAACTATAGCGATGC
 TGAACTCTTTGAGCTGGAGGGGACAGAGGCTGGTCGGCGGCGCANCGAATATGTAGAGAT
 GTACCCAGTGGAGTACCCCTACTCACTCATGCCCAACTNCTTGA

Restriction Sites: Please inquire

ACCN: NM_006163

Insert Size: 1663 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:	NM_006163.1 , NP_006154.1
RefSeq Size:	1678 bp
RefSeq ORF:	1122 bp
Locus ID:	4778
UniProt ID:	Q16621
Cytogenetics:	12q13.13
Protein Families:	Transcription Factors
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 (1) represents the shortest transcript. Variants 1, 2 and 3 encode the same protein.</p>