

## Product datasheet for RC202924

### Nuclear Factor Erythroid Derived 2 (NFE2) (NM\_006163) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Nuclear Factor Erythroid Derived 2 (NFE2) (NM_006163) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NFE2
Synonyms:	NF-E2; p45
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC202924 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCCCCGTGTCCTCCCAGCAGAGCAGGAACAGGGTGATACAGCTGTCCACTCAGAGCTAGGAGAGA  
TGGAACTGACTTGGCAGGAGATCATGTCCATCACCGAGCTGCAGGGTCTGAATGCTCCAAGTGGCCATC  
ATTTGAGCCCCAAGCCCCAGCTCCATACCTTGGACCTCCACCACCACAACCTACTGCCCTGCTCAATC  
CACCCAGATTCTGGCTTCCCACTTCTCCACCACCTTATGAGCTCCAGCATCCACATCCCATGTCCAG  
ATCCCCATACTCCTATGGCAACATGGCCATACCAGTCTCCAAGCCACTGAGCCTCTCAGGCCTGCTCAG  
TGAGCCGCTCCAAGACCCCTTAGCCCTCTGGACATTGGGCTGCCAGCAGGGCCACCTAAGCCCCAAGAA  
GACCCAGAATCCGACTCAGGATTATCCCTCAACTATAGCGATGCTGAATCTCTTGAGCTGGAGGGGACAG  
AGGCTGGTCGGCGGCGCAGCGAATATGTAGAGATGTACCCAGTGGAGTACCCCTACTCACTCATGCCAA  
CTCCTTGGCCCACTCCAATACTTGGCAGCTGCTGAGACCCCTTGGCCTTAGAGCCCTCTCAGGC  
CCTGTGCGGGCTAAGCCCACTGCACGGGGGAGGCAGGGAGTGGGATGAACGTGGGCCCTTGGCCATGA  
AGATTCTTTTCTACGGACAAGATTGTCAACTTGCCGTTAGATGACTTTAATGAGCTATTGGCAAGGTA  
CCCGCTGACAGAGCCAGCTAGCGCTAGTCCGGGACATCCGACGACGGGGCAAAAACAAGGTGGCAGCC  
CAGAACTGCCGCAAGAGGAAGCTGGAAACCATTGTGACAGTGGAGCGGGAGCTGGAGCGGCTGACCAATG  
AACGGGAGCGGCTTCTCAGGGCCCGGGGAGGCAGACCGGACCTGGAGGTCATGCGCCAACAGCTGAC  
AGAGCTGTACCGTACATTTTCCAGCACCTTGGGATGAATCAGGCAACAGCTACTCTCCTGAAGAGTAC  
GCGCTGCAACAGGCTGCCGATGGGACCATCTTCTTGTGCCCCGGGGACCAAGATGGAGGCCACAGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC202924 protein sequence  
 Red=Cloning site Green=Tags(s)

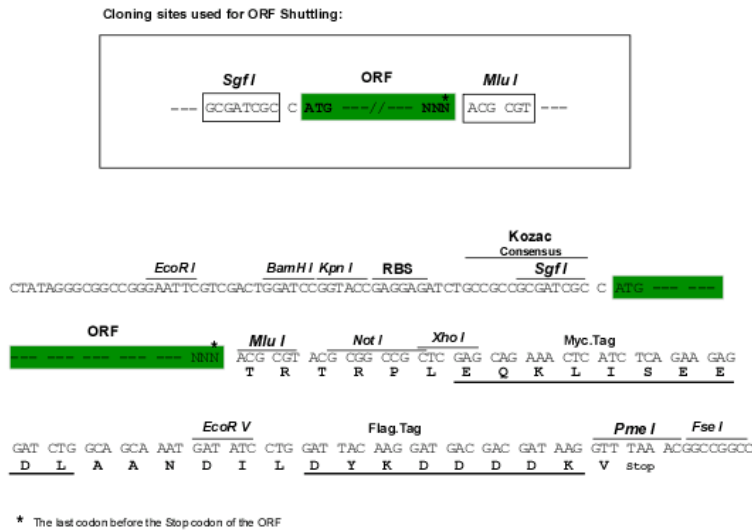
MSPCPPPQQSRNRVIQLSTSELGEMELTWQEIMISITELQGLNAPSEPSFEPQAPAPYLGPPPPTTYCPCSI  
 HPDSGFPLPPPPYELPASTSHVPDPYSGNMAIPVSKPLSLGLLSEPLQDPLALLDIGLPAGPPKPQE  
 DPESDSSLNYSDAESLELEGTEAGRRRSEYVEMYPVEYPYSLMPNSLAHSNYLTPAAETPLALEPSSG  
 PVRAKPTARGEASRDERRALAMKIPFPDVKIVNLPVDDFNELLARYPLTESQLALVRDIRRRGKNKVA  
 QNCRKRKLETIVQLERELRLTNERERLLRARGEADRTLEVMRQQLTEL YRDI FQHLRDESGNSYSPEEY  
 ALQQAADGTIFLVPRGTKMEATD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

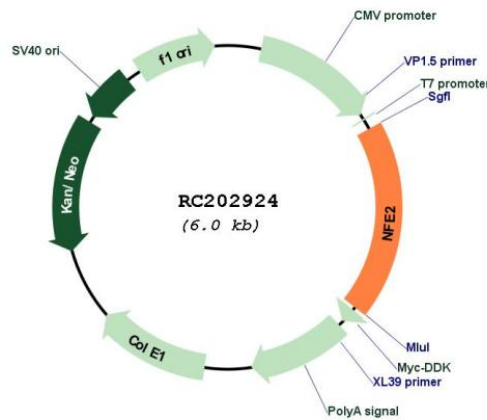
Chromatograms: [https://cdn.origene.com/chromatograms/mk6152\\_d09.zip](https://cdn.origene.com/chromatograms/mk6152_d09.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:

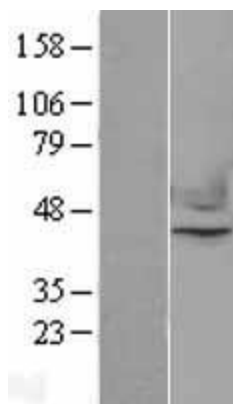


Plasmid Map:

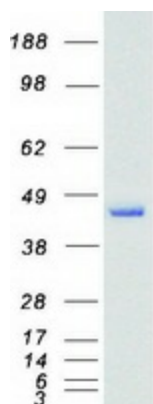


<b>ACCN:</b>	NM_006163
<b>ORF Size:</b>	1119 bp
<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), 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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>RefSeq:</b>	<a href="#">NM_006163.2</a>
<b>RefSeq Size:</b>	1697 bp
<b>RefSeq ORF:</b>	1122 bp
<b>Locus ID:</b>	4778
<b>UniProt ID:</b>	<a href="#">Q16621</a>
<b>Cytogenetics:</b>	12q13.13
<b>Protein Families:</b>	Transcription Factors
<b>MW:</b>	41.5 kDa
<b>Gene Summary:</b>	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]

## Product images:



Western blot validation of overexpression lysate (Cat# [LY427772]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC227517] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NFE2 protein (Cat# [TP302924]). The protein was produced from HEK293T cells transfected with NFE2 cDNA clone (Cat# RC202924) using MegaTran 2.0 (Cat# [TT210002]).