

Product datasheet for **SC118132**

Nuclear Factor Erythroid 2 Related Factor 1 (NFE2L1) (NM_003204) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	Nuclear Factor Erythroid 2 Related Factor 1
Synonyms:	LCR-F1; NRF1; TCF11
Mammalian Cell	None
Selection:	
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



Fully Sequenced ORF: >NCBI ORF sequence for NM_003204, the custom clone sequence may differ by one or more nucleotides

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ATGCTTTCTCTGAAGAACTTAACGGAAGGACTTCTCCAGTTACCATTCTGCTGAGTTTGATTGGG
TACGGGTGGACGTGGATACTTACCTGACCTCACAGCTCCCCACTCCGGGAGATCATCTGGGGCCAG
TTCTGCCTATACTCAGACCCAGTCCACAACCTGAGGAATACCTTGGATGGCTATGGTATCCACCCCAAG
AGCATAGACCTGGACAATTACTTCACTGCCCGCGGCTCCTCAGTCAGGTGAGGGCCCTGGACAGGTTCC
AGGTGCCAACCACTGAGGTAATGCCTGGCTGGTTACCGAGACCCAGAGGGGTCTGTCTCTGGCAGTCA
GCCCCAAGTCAAGGCTCGCCCTCGAGAGTTCAGTGGCTCCAAGATGTGACAGGCCAGACAACGGGGTG
CGAGAAAGCGAAACGGAGCAGGGATTCCGTGAAGATTTGGAGGATTTGGGGCTGTAGCCCCCAGTCA
GTGGAGACTTAACCAAAGAGGACATAGATCTGATTGACATCCTTTGGCGACAGGATATTGATCTGGGGGC
TGGCGTGAGGTTTTGACTATAGTCACCGCCAGAAGGAGCAGGATGTGGAGAAGGAGCTGCGAGATGGA
GGCGAGCAGGACACCTGGCAGGCGAGGGCGGAAGCTCTGGCACGGAACCTGCTAGTGGATGGAGAGA
CTGGGGAGAGCTTCCCTGCACAGGTGCCTAGTGGGAGGACCAGACGGCCCTGTCCCTGGAAGAGTGCCT
TAGGCTGCTGGAAGCCACTGCCCTTTGGGGAGAATGCTGAGTTTCCAGCAGACATTTCCAGCATAACA
GAAGCAGTGCCTAGTGAGAGTGAGCCCCCTGCTCTTCAAAACAACCTCTGTCTCCTCTTGACCGGGA
CAGAGTCACCATTTGATTTGGAACAGCAGTGGCAAGATCTCATGTCATCATGGAATGCAGGCCATGGA
AGTGAACACATCAGCAAGTGAATCCTGTACAGTGGCCCTCCTGGAGACCCACTGAGCACCACCTACAGC
CTTGCCCCCAACTCTCCATCAATCAGAATGTACGCTGCATCAGGCGTCCCTGGGGGCTGCAGCCAGG
ACTTCTTACTCTTCAAGCCGAGGTGGAAGCCTGCCTGTGGCCAGTAGCTCCACGCTGCTCCCGTTGGC
CCCCAGCAATTCTACGACCTCACTCCACCTTCGGCTCCACCAACCTGACAGGGCTCTTCTTTCCACCC
CAGCTCAATGGCACAGCAATGACACAGCAGGCCAGAGCTGCCTGACCCTTTGGGGGTCTGTTAGATG
AAGCTATGTTGGATGAGATCAGCCTTATGACCTGGCCATTGAAGAAGGCTTTAACCTGTGCAGGCCTC
CCAGCTGGAGGAGGAATTTGACTCTGACTCAGGCCTTCTCTAGACTCGAGCCATAGCCCTTCTCCCTA
AGCAGCTCTGAAGGCAGTTCTTCTCTTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTG
CCTCTTCTCTCTTTCTGAGGAAGGTGCGGTTGGCTACAGCTCTGACTCTGAGACCTGGATCTGGAAGA
GGCCGAGGGTGCTGTGGGCTACGACCTGAGTATTCCAAGTTCTGCGCATGAGCTACGAGGATCCAGCT
CAGCTCTCATGCCTGCCCTACCTGGAGCAGTGGGCCACAACCACACATACAACATGGCACCAGTGCCC
TGGACTCAGCCGACCTGCCACCACCAAGTGCCTCAAGAAAGGCAGCAAGGAGAAGCAGGCTGACTTCT
GGACAAGCAGATGAGCCGGATGAGCACCAGCCGAGCCATGAAGATCCCTTTACCAATGACAAAATC
ATCAACCTGCCTGTGGAGGAGTTCAATGAACTGCTGTCCAAATACAGTTGAGTGAAGCCAGCTGAGCC
TCATCCGAGACATCCGGCGCCGGGCAAGAACAAGATGGCGGCGCAGAAGTCCGCAAGCGCAAGCTGGA
CACCATCCTGAATCTGGAGCGTGATGTGGAGGACCTGCAGCGTGACAAAGCCGGCTGCTGCGGGAGAAA
GTGGAGTTCCTGCGCTCCCTGCGACAGATGAAGCAGAAGGTCCAGAGCCTGTACCAGGAGGTGTTTGGG
GGCTGCGAGATGAGAACGGAGCAGCCTACTCGCCAGTCAGTATGCGCTCCAGTACGCGGGGACGGCAG
TGTCCTCTCATCCCCGACGATGGCCGACCAGCAGGCCCGGCGGAGGAGGAAGCCAAAGGACCGG
AGAAAGTGA
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**5' Read Nucleotide
Sequence:**

>OriGene 5' read for NM_003204 unedited

```
TCAACTTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGCACGAGGGGGCGGGGA
GGTAAGCGGAGGCTCCGAGCTTAGGCCGGCCGGCGGTGGCGGCGCGAGGCCGGGACTC
GGGCTTAGGGCCTGCTGTGGAGGACGCGGCGGACGCCAGCTAAGCAGTTTCTCTGAAA
CCCCCTGGTAAGTGTGGAGGAGCGGGACACTCTGACCCAAGACGAAAGGCCTGTAGCT
CCAGCCAAAGAAAATAAACCTTAGGAGGGAGAAGGAAAAAAAAAATCCATCAGCTGTTCC
TGAGAACAGCCTGCATTGGAATCTACAGAGAGGACAATAATGTGAGTGAGGAAGTGACT
GTATGTGGACTGTGGAGAAAGTAAGTCACGTGGGCCCTTGGAGACCTGGACTGGGTTAGG
AACAGTTGTACTTTACAGAGGTGAGGTGTCGAGAAGGGAAAGTGAATGTGGTCTGGAGTGT
GTCTTGGCCTTGGCTCCACAGGCTGTGCTTCTCTGGGGCGTCAAGGAGCTCATCCC
TTGTGTTTCTGCCAGGTTGGGTACGGNGTTTGACACTGAGGAGGTAACCTGCTGGCTGG
AGCGGCAGAGCAGTGGCCTTGATTTGTCTTTGGAAGATTTTAAAAACCAAAAGCATAA
ACATTCTGGTCCTTCAGCAATGCTTTCTCTGAAGAAATACTTAACGGAAGGACTTCTCCA
GTTCACCATTTCTGCTGAGTTTGATTGGGGTACGGGTGGGACGTGATACTTACCTGACCTC
ACAGCTTCCCCCACTCGGGAGAACATNCTGGGCCCCAGTTCTGCCTATACTCAGACCCA
NTNNCACACCTGAGGATACCTNGGATGGCTATGGTATCCACCCN
```

3' Read Nucleotide

>OriGene 3' read for NM_003204 unedited

Sequence:

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ATGCCCGCGGCCGAATCTAAAGTCGAGTTTTTTTTTTTTTTTTCTTTCTTTCCCT
CCTTCTGAAATGAGACTTTCTGCCACCTTCCCTTCTCTCACAGGTCCATTCTTCCCC
TCTGTGGCCTTTTGTCCACATAGCTCCTCTACCTCCAGCAACTCCACCACCCCTTGC
CTCACAGGAAAGGGGTAGGGTGAAGACCTGTCCGTCTAAATGGTCTGGCCACTTCCACT
CCACCCGAGTGGAGCTGAGCCAGCCAGTGCCTGCCTTCTCTGTACACTGACCCGAGTC
ATCCCATCTGAGAAGATATATTGGATAAGAAGGCATTTAAGTCCCCGCTGTAGGTCCAGG
TCCAGGTCCAGGTCCAGCCCTTCTCCAGTTTCGGTCTTGGTGGGCTTCAACCCCTTCT
TCCCCAGGCTCACTTTCTCCGGTCTTTGGCTTCTCTCTGCCCAGGGGCTGCTGGTC
GGCCATCGTGCGNGGATGAGGAGGACACTGCCGTCCCGGCGTACTGGAGCGCATACTG
ACTGGGCGAGTAGGGCCGTCCGTTCTCATCTCGCAGTCGCCAAACACCTCCTGGTACAG
GCTCTGGACCTTCTGCTTAATTGTTGCAGGAAGCGCAGGAACCTCATTTTCTCCCGCAC
AACCGGGCTTTGAACCTGCAAGCCCTCCAATAACGCTCCATATTAGATGGGGTCCAGC
TTGCGTGGCGGCAAATCTGCCCCCATCTTGAATTTGCCCGGACCGGAAGGCATC
GGAAGTAGCTAACACGGGCTACCTCAACGGGCTTTGGCCAAAAGAGTATTTGAAACT
ACTCCCCCGCCAGGCTGACGAATATAAAATTGGTCAAGGGCTCACTCTT
```

Restriction Sites:

NotI-NotI

ACCN:

NM_003204

Insert Size:

3410 bp

OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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. [More info](#)

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:

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.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_003204.1 , NP_003195.1
RefSeq Size:	4760 bp
RefSeq ORF:	2319 bp
Locus ID:	4779
UniProt ID:	Q14494
Cytogenetics:	17q21.32
Domains:	BRLZ
Protein Families:	Transcription Factors
Gene Summary:	This gene encodes a protein that is involved in globin gene expression in erythrocytes. Confusion has occurred in bibliographic databases due to the shared symbol of NRF1 for this gene, NFE2L1, and for "nuclear respiratory factor 1" which has an official symbol of NRF1. [provided by RefSeq, Jul 2008]