

## Product datasheet for **SC114069**

### **NKRF (NM\_017544) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	NKRF (NM_017544) Human Untagged Clone
Tag:	Tag Free
Symbol:	NKRF
Synonyms:	ITBA4; NRF
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

## Fully Sequenced ORF:

>OriGene sequence for NM\_017544 edited  
ATGGAAAAATTCCTCAAATGGCTGAAGGTATTGATATTGGGGAGATGCCTTCATATGAT  
CTGGTGTCTCCAAACCTTCAAAGGTCAAAAACGCCACCTCTCAACATGTGATGGTCAA  
AATCCTCCTAAAAAGCAAGCCGGTTCCAAATCCATGCGAGACCTCGTTTTGAGCCTGTA  
CATTTTGTAGCTAGTAGTTCAAAGATGAAAGACAGGAAGATCCTTATGGCCCTCAAACA  
AAAGAGGTAATGAACAAACACATTTTCCAGCATGCCAAGAGACATCTACCAAGATTAT  
ACTCAAGACTCTTTCAGTATACAAGATGGGAATTCTCAGTATTGTGATTATCAGGATTC  
ATTCTCACAAAAGACCAGCCTGTAAACAGCCAACATGTATTTTGACAGTGGGAACCTGCC  
CCAAGCACACATCACAGCAGGCAAACTCTCAGTCAACTCCTGAGCCTTACCATCACAG  
ACATTTCCCGAGTCTGTGGTAGCCGAGAAGCAGTATTTTATTGAAAAATTAACGGCGACA  
ATCTGGAAGAACCTTTCTAATCCAGAAATGACTTCTGGATCTGATAAAATTAATTATACA  
TATATGTTAACTCGTTGTATTACAGGCGTGAAGACAAATCCTGAGTATATATATGCTCCT  
TTAAAGGAAATTCCTCCTGCCGACATCCCCAAAAATAAAAACTTCTAACTGATGGCTAT  
GCTTGTGAAGTTAGATGCCAAAATCTACTTAACTACAGTTATGCTGGCAGCAAGAAT  
GGGTCCAGGGATCGAGCTACAGAGCTAGCTGTAAAACCTTGCAGAAACGATTGAAGTT  
AGAGTTGTCCGGCGAAATTCAGCATACATTTGGAGAGGACCTCGTGGTGTGTACAGATT  
GGCATGTCCTCCTATGAATTTCCCTCCAGCTCTGAAGCCACCAGAAGACCTGGTGGTGTG  
GGTAAAGATGCTTCCGGGAGCCAAATTTTAAATGCTTCTGCCAAACACTGGACCAATTTT  
GTCATTACAGAAAATGCAAAATGATGCAATTGGTATCCTTAAACAATTCGCCTCATTCAAC  
AAGATGTCAATTGAATACAAATATGAGATGATGCCAAATCGCACATGGCGTTGTGCGAGTG  
TTTTTACAAGTCACTGCTTAGCTGAAGGTTATGGAACCAAGAAAACAAGTAAACATGCA  
GCTGCCGACGAGGCTTTGAAAATCTTCAAAAAACACAGCCACTTATCCATCTGTCAAA  
AGTTCACAATGCCATACAGGCTTTCACCCAGAGGATCTGGAAAGAAGAAAGATATAAAG  
GATCTTGTAGTTTATGAGAATTCTCAAATCCCGTGTGCACGCTGAACGACACAGCTCAG  
TTTAAACGAATGACAGTTGAGTATGTCTATGAAAGGATGACAGGCTCCGCTGGAATGC  
AAAGTGATTCTAGAGAGTGAAGTAATTGCAGAAGCAGTTGGGGTGAAGAAAATGTCAAA  
TATGAAGCTGCTGGGGAAGCTGTGAAAACCTCAAAAAGACCCAGCCAATGTCATTAAC  
AACTTGAAGAAAGGAGCTGTTGAAGATGTGATTTCAAGAAATGAAATTCAGGGCCGCTCA  
GCAGAGGAGGCTTACAAACAGCAAATCAAAGAAGATAATATTGGAATCAGCTGCTGAGA  
AAGATGGGTTGGACTGGTGGTGGTTTAGGTAATCTGGTGAAGGCATACGGGAGCCTATC  
TCAGTGAAGAGCAGCATAAGCGGGAAGGCTTGGTCTGGATGTAGAGAGGGTGAATAAA  
ATTGCCAAGAGAGATATTGAACAGATCATCAGAACTACGCCCGCTCCGAGAGCCACACA  
GATTTGACTTTCTAGAGAGCTGACTAATGATGAACGGAAGCAAATACATCAGATTGCC  
CAGAAGTATGGTCTTAAGAGTAAGTCTCATGGGGTGGGCCATGATAGGTACCTAGTGGTA  
GGTAGAAAAGACGGAAGGAAGACCTACTAGATCAGCTCAAACAGGAAGGCCAAGTGGGC  
CATTACGAGCTTGTATGCCTCAAGCAAATTGA

**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_017544 unedited  
 GTTCAAATTTGTATACGACTCCTATAGGCGGCCGCGNATTCGGCACGAGGCACTTTGCCA  
 GTAAGAGTCTATTCAAATTTGGCTTCTGAGTCCATTTGACACAACACCTTTGATCTTTGAC  
 AGTTTTCTTGGTTTTAGGTGCTAGATGATTTCTCAGGCTCACCTTAGACATTTCTCGCCA  
 CAGACTTAGAATCAGCCATTTCTCTAAGGACCCTGATTCCATTTTCATGAGAAATGATAGA  
 GACCACAATCAAAACAAGTCATGAATTTATACTGATATTTCAATTCAAATTAAGATGA  
 GGTTTTTGCTAAATTTTTTTGAGTTTATATTTGTATGTCTTATGCTGAAAAATCTTGTTT  
 CCTAATTAGTAACATAATTATTCATTTGATGGTAAATATTTTAGGGCCGATTCTTTGGT  
 TTTATAGCCAAGATACCCTGTTGATAAAGTCTTGTGGGAGCAATTATAAGACTGGCTTAT  
 TTTGAAGCTTTTTAAAAAAGACATCCTTACCTGTTTTAACTGTAGATTATTAACCTTA  
 AATAGGTACAGCCACGCTTGATGGAAAAATTCTCAAATGGCTGAAGGTATTGATATT  
 GGGGAGATGCCTTCATATGATCTGGTGTGTCCAAACCTCCAAAGGTCAAAAACGCCAC  
 CTCTCAACATGTGATGGTCAAAATCCTCCTAAAAAGCAAGCCGGTCCAAATTCATGCG  
 AGACCTCGTTTTGAGCCTGTACATTTTGTAGCTAGTAGTTCAAAGATGAAAGACAGGAA  
 GATCCTTATGGCCCTCAACAAAAGAGTAAATGAACANCACATTNTGCCAGCATGCCAAGA  
 GACTCTACCAAGATATACTCAGACTCTNTCATATACAGATGGGAATCTCAGTATGTGATC  
 ATCAGGATCATCTCAAAAGACAGN

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_017544 unedited  
 GTACCGCGGCACGCAATCTAGTGTGAGGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCT  
 GATCAACTTTGGCTCCTTTTTTATTCAGGAAGCATACACTAATCTTTTTATACATTTTTT  
 TTTTTTACATTCAAAAATAAGCGAAAAATAGCAGTTTTAAATATGTTACAAAGTTGGCTT  
 TTCAGGCTTAAGCTTTTTGAGAGAGGGACCAGCCAACCTGACCTTTTCATCAAAGCACCA  
 TGTATCTTCAGTCTTTTACCAAGCTCTACCACAGCTGGGGTTGCCTTGGATGTGCTGCAC  
 ATCCAAACCGGGTAAAGCTATAATGGAGAGTTGCTGGGAGTCTCTCTGCAAGGCACCAA  
 GAACAAACAGTTCAAGCTTCTTTCTTCAAATGAACCAAAGTTTTTGAACTTTCAACT  
 GCTCTCTCAAGTAGGGCTCTCTCAGCGTGAAGACTAGAATTTGTTAAAACCCATATATCA  
 CAAGATACAGTAAATCACTTCCAATAGTCTGGAATCACATGGTAGAAGTTATAAATAAA  
 TGAACACTAAAATTACTTTAAGAAAGTTTTACATCATTTAGTTGGTAAGGACATTTACGT  
 GTACAGCACAAATTTATTGTCAAACATTCTATAACTGGCTTCCACAAAGATGAAAAATAGAT  
 TAATACAAAATGATCTGACCTTTTCAGTAAATCTGGAATTAAGACTGGATTTTTTATTGGA  
 GNCAATATCAACTTTACATATTGTTGCAGATTGGCTGGGCTATGCCCTTTAAATGANTA  
 TTCTCAGGGTAAATTCATTGGGATATNGGTCCTGGCTTGGCAAACACTAAATCTGAGG  
 GACCAGCATTTCAAGACCCAACAGTACCTGACATTTTCATCGCTGGATAAGCTATAACAGG  
 GACAGATTCTTTAGTCCATTTCTATAACCCCTTGGGATGAACAGGGGGATTTTATGATTC  
 CTTGACGGAATGGAGACTCCTTATTAAT

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_017544

**Insert Size:**

3100 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](mailto: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](#)

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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.

**RefSeq:** [NM\\_017544.1](#), [NP\\_060014.1](#)

**RefSeq Size:** 3736 bp

**RefSeq ORF:** 1167 bp

**Locus ID:** 55922

**UniProt ID:** [O15226](#)

**Cytogenetics:** Xq24

**Protein Families:** Transcription Factors

**Gene Summary:** This gene encodes a transcriptional repressor that interacts with specific negative regulatory elements to mediate transcriptional repression of certain nuclear factor kappa B responsive genes. The protein localizes predominantly to the nucleolus with a small fraction found in the nucleoplasm and cytoplasm. Alternate splicing results in multiple transcript variants.

[provided by RefSeq, Mar 2010]

Transcript Variant: This variant (2) differs in the 5' UTR and 5' coding region, and initiates translation at a downstream start codon, compared to variant 1. The encoded isoform (2) has a shorter N-terminus, compared to isoform 1. Variants 2 and 3 encode the same isoform (2).