

Product datasheet for **SC318168**

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:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC318168 representing NM_017544.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGAAAAAATTCCTCAAATGGCTGAAGGTATTGATATTGGGGAGATGCCTTCATATGATCTGGTGCTG
TCCAAACCTTCCAAAGGTCAAAAACGCCACCTCTCAACATGTGATGGTCAAAATCCTCCTAAAAAGCAA
GCCGGTTCCAAATTCATGCGAGACCTCGTTTTGAGCCTGTACATTTTGTAGCTAGTAGTTCAAAAGAT
GAAAGACAGGAAGATCCTTATGGCCCTCAAACAAAAGAGGTAAATGAACAAACACATTTTCCAGCATG
CCAAGAGACATCTACCAAGATTATACTCAAGACTCTTTCAGTATACAAGATGGGAATTCAGTATTGT
GATTCATCAGGATTCATTCTCACAAAAGACCAGCCTGTAACAGCCAACATGTATTTTACAGTGGGAAC
CCTGCCCAAGCACCACATCACAGCAGGCAAACCTCAGTCAACTCCTGAGCCTTACCATCACAGACA
TTTCCCGAGTCTGTGGTAGCCGAGAAGCAGTATTTTATTGAAAAATTAACGGCGACAATCTGGAAGAAC
CTTTCTAATCCAGAAATGACTTCTGGATCTGATAAAATTAATTATACATATATGTTAACTCGTTGTATT
CAGGCGTGTAAAGACAAATCCTGAGTATATATATGCTCCTTTAAAGGAAATTCCTCCTGCCGACATCCCC
AAAAATAAAAAACTTCTAACTGATGGCTATGCTTGTGAAGTTAGATGCCAAAATATCTACTTAACTACA
GGTTATGCTGGCAGCAAGAATGGGTCCAGGGATCGAGCTACAGAGCTAGCTGAAAACTCTTGACAGAAA
CGTATTGAAGTTAGAGTTGTCCGGCGGAAATTCAGCATACATTTGGAGAGGACCTCGTGGTGTGTGAG
ATTGGCATGTCCTCCTATGAATTTCTCCAGCTCTGAAGCCACCAGAAGACCTGGTGGTGTGGTAAA
GATGCTCCGGGCAGCCAATTTTAAATGCTTCTGCCAAACACTGGACCAATTTTGTCAATACAGAAAAT
GCAATGATGCAATGGTATCCTTAAACAATTCTGCCTCATTCAACAAGATGTCAATTGAATACAAATAT
GAGATGATGCCAAATCGCACATGGCGTTGTGAGTGTGTTTACAAGATCACTGCTTAGCTGAAGGTTAT
GGAACCAAGAAAACAAGTAAACATGCAGCTGCCGACGAGGCTTTGAAAATCTTCAAAAAACACAGCCC
ACTTATCCATCTGTCAAAGTTCACAATGCCATACAGGCTCTTCAACCAGAGGATCTGGAAAAGAAGAAA
GATATAAAGGATCTGTAGTTTATGAGAATTTCTCAAATCCCCTGTGCAGCTGAACGACACAGCTCAG
TTTAAACCGAATGACAGTTGAGTATGTCTATGAAAGGATGACAGGCCTCCGCTGGAATGCAAAGTGATT
CTAGAGAGTGAAGTAATTGCAGAAGCAGTTGGGGTGAAGAAAAGTCAAAATATGAAGCTGCTGGGGAA
GCTGTGAAAACCTCAAAAAGACCCAGCCAAGTCAATTAACAAGTGAAGAAAGGAGCTGTTGAAGAT
GTGATTTCAAGAAATGAAATTCAGGGCCGCTCAGCAGAGGAGGCTTACAAACAGCAAATCAAAGAAGAT
AATATTGAAATCAGCTGCTGAGAAAGATGGGTGGACTGGTGGTGGTTAGGTAATCTGGTGAGGGC
ATACGGGAGCCTATCTCAGTGAAGAGCAGCATAAGCGGGAAGGGCTTGGTCTGGATGTAGAGAGGGTG
AATAAAATTGCCAAGAGAGATATTGAACAGATCATCAGAAACTACGCCCGCTCCGAGAGCCACACAGAT
TTGACTTTCTCTAGAGAGCTGACTAATGATGAACGGAAGCAAATACATCAGATTGCCCAGAGTATGGT
CTTAAGAGTAAGTCTCATGGGGTGGGCCATGATAGGTACCTAGTGGTAGGTAGAAAAAGACGGAAGGAA
GACCTACTAGATCAGCTCAAACAGGAAGGCCAAGTGGGCCATTACGAGCTTGTTATGCCTCAAGCAAAT
TGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI
ACCN: NM_017544
Insert Size: 2073 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](#)

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_017544.3](#)

RefSeq Size: 3263 bp

RefSeq ORF: 2073 bp

Locus ID: 55922

UniProt ID: [O15226](#)

Cytogenetics: Xq24

Protein Families: Transcription Factors

MW: 77.7 kDa

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).