

Product datasheet for **SC114085**

NKIRAS2 (NM_017595) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NKIRAS2 (NM_017595) Human Untagged Clone
Tag:	Tag Free
Symbol:	NKIRAS2
Synonyms:	kappaB-Ras2; KBRAS2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC114085 sequence for NM_017595 edited (data generated by NextGen Sequencing) ATGGGGAAGAGCTGCAAGGTGGTCGTGTGTGGCCAGGCGTCTGTGGGCAAACTTCAATC CTGGAGCAGCTTCTGTATGGGAACCATGTAGTGGGTTTCGGAGATGATCGAGACGCAGGAG GACATCTACGTGGGCTCCATTGAGACAGACCGGGGGTGCAGAGCAGGTGCGTTTCTAT GACACCCGGGGGCTCCGAGATGGGGCCGAAGTCCCCGACACTGCTTCTTTGCACTGAT GGCTACGTCCTGGTCTATAGCACAGATAGCAGAGAGTCTTTTCAGCGTGTGGAGCTGCTC AAGAAGGAGATTGACAAATCCAAGGACAAGAAGGAGGTCAACATCGTGGTCCTTGGAAC AAGTGTGACTTACAGGAGCAGCGGCGTGTAGACCCAGATGTGGCTCAGCACTGGGCAAG TCAGAGAAGGTGAAGCTGTGGGAGGTGTCAGTGGCGGACCGGCGTCCCTCCTGGAGCCC TTTGTCTACTTGGCCAGCAAGATGACGCAACCCAGAGCAAGTCTGCCTTCCCCCTCAGC CGGAAGAACAAGGCGAGCGGCTCCTTGGATGGCTGA Clone variation with respect to NM_017595.5



[View online »](#)

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_017595 unedited
 AGGGTCACCATTTGTATACGACTCACTATAGGCGGCCGCAATTCGCACGAGGCTGGAGC
 CTTTGC GGCGCGCTGCCCTCCCCTGGTCCCCGCGAGCTCGGAGGGCCCGGCTGGTGCT
 GCGGGGGCCCCGGGAGGTTGAAACTAAGCATGGGGAAGAGCTGCAAGGTGGTCGTGTGT
 GGCCAGGCGTCTGTGGGCAAACTTCAATCCTGGAGCAGCTTCTGTATGGGAACCATGTA
 GTGGGTTTCGAGATGATCGAGACGCAGGAGGACATCTACGTGGGCTCCATTGAGACAGAC
 CGGGGGGTGCGAGAGCAGGTGCGTTTCTATGACACCCGGGGGCTCCGAGATGGGGCCGAA
 CTGCCCCGACACTGCTTCTCTTGCACTGATGGCTACGTCCTGGTCTATAGCACAGATAGC
 AGAGAGTCTTTTTCAGCGTGTGGAGCTGCTCAAGAAGGAGATTGACAAATCCAAGGACAAG
 AAGGAGGTCAACATCGTGGTCTTGGCAACAAGTGTGACTTACAGGAGCAGCGGCGTGTA
 GACCCAGATGTGGCTCAGCACTGGGCCAAGTCAGAGAAGGTGAAGCTGTGGGAGGTGTCA
 GTGGCGGACCGCGCTCCCTTCTGGAGCCCTCTGTCTACTTGGCCAGCAAGATGACCCAA
 CCCCAGAGCAAGTCTGCCTTCCCCCTCACCGNAAGAACAAGGCAGCGGTTCTTTGATG
 GCTGAAGAGCTGTCGTTCTTTTACGATCCCACCCATTTCAAGTGTCTGGGCTCTGGT
 ANATGTGGTGACCCAACTAAAGACCACCTGTTTTTCCAGCCAGGCCGGGAGCTCCCC
 GCCGGGCACGCCCAACCACTTTGGTTCCTCTAACCCCTGGAAGTGCAAT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_017595 unedited
 NNCCTAGCTTGNACCGCGCCGCAATCTAGNGATCAGTTTTTTTTTTTTTTTTTTGATA
 ACAATTGTGGTTTTATTGTGTCCAACCAATGCATCAATAAATGAAGTGAAGCCCAAGCC
 TGTGTGTGTCCTAATCCACTCACCCAGCCCCGGGCACCTGCCCCACTCACCTCTGGCTT
 TGAGAAGGGGCGTGTGTCGGTGGTTGCCTGGCTGCAGTGTCTCACCTAGGCTAGGTGTGC
 ACCTTAGAAGCACAAAGCGGGCACAGTTGTGGGTAAATAAGCTTACTCTGCAGGCCGCTGC
 GTGTGTGCCACCTCCTGAGCCCCGAAAGAGGACCTGTGAGCTCCTGAGAGGCTGCTAC
 GGGTTTGCCTTGTCTGTTCAGGCATCTGAGGTAAAGAGGGGGCCAGAGGAGCACCTT
 GTCCAGCCTTACCATGAGAGCGGGCATATAAATATAAATACAGGTAACCTATAAATAGA
 AGTCCAGCTCTGAGCTGAAAACACAGGCAGGATAAAGAGCAGCTCCAAGAGCGAGGCT
 GGCGGGCTGGGCACTGAGCGGCCACTCTGGTACTGACAGCAGGTAGTGCACCTCTGCCC
 CCTGGTGGCTGGGAGGAGCGGCANATCCAGCCTCCNAGGCTGGGGTGGCATAGCACCTT
 AAAGAGGGAGAAGCCATTGGCTTTCCGAATTCAAGAGACCTTGAAGGATCTAGGAAAA
 TCTCTAACCACTTTGGTCATTTTACAGAAGAGAACTGATGCCCAAAAGGGGAAAGTCT
 TGTTTGGTCAACAAAGGGGCGGGGGCTCCTAACCCATTATTTTATTTCTCTCAACCAG
 TGGGGCCATTCTGTCCCTGTACCGGAAAAGGAATTAAACCATGGGGGAGGGTGGGGAAA
 TTTTTTTTTTTTTTTTAAAGGGACCCTGCCCTGTGACCAGTTGGGATAT

Restriction Sites:

ECORI-NOT

ACCN:

NM_017595

Insert Size:

2440 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:

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_017595.4](#), [NP_060065.2](#)

RefSeq Size: 2492 bp

RefSeq ORF: 576 bp

Locus ID: 28511

UniProt ID: [Q9NYR9](#)

Cytogenetics: 17q21.2

Domains: RAS, RAB

Gene Summary: Atypical Ras-like protein that acts as a potent regulator of NF-kappa-B activity by preventing the degradation of NF-kappa-B inhibitor beta (NFKBIB) by most signals, explaining why NFKBIB is more resistant to degradation. May act by blocking phosphorylation of NFKBIB and nuclear localization of p65/RELA NF-kappa-B subunit. It is unclear whether it acts as a GTPase. Both GTP- and GDP-bound forms block phosphorylation of NFKBIB (By similarity).
[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (2) differs in the 5' UTR, compared to variant 1, and encodes isoform a. Variants 1-3 encode the same protein (isoform a).