

Product datasheet for **SC108736**

NKIRAS1 (NM_020345) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NKIRAS1 (NM_020345) Human Untagged Clone
Tag:	Tag Free
Symbol:	NKIRAS1
Synonyms:	kappaB-Ras1; KBRAS1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC108736 sequence for NM_020345 edited (data generated by NextGen Sequencing)

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ATGGGAAAGGGCTGCAAGTTGTGGTTTGTGGATTGTTATCTGTGGGAAAACACTGCAATT
TTGGAGCAGCTCCTTTATGGAAATCATACTATTGGAATGGAAGATTGCGAAACAATGGAA
GATGTATACATGGCTTCAGTAGAAACAGACCGAGGAGTAAAAGAACAGTTACATCTTTAT
GACACCAGAGGTCTACAGGAAGGCGTGGAGCTGCCAAAGCATTATTTTTCATTTGCTGAT
GGCTTCGTTCTTGTGTACAGTGTGAATAACCTTGAATCCTTTCAAAGAGTGGAGCTTCTG
AAGAAAGAAATCGATAAGTTCAAAGACAAAAAAGAGGTAGCAATTGTGGTATTAGGAAAC
AAAATCGACCTTTCTGAGCAGAGACAAGTGGACGCTGAAGTGGCACAGCAGTGGGCAAAA
AGTGAGAAAGTAAGACTGTGGGAGGTGACTGTTACAGATCGGAAAACCTGATTGAACCA
TTCACCTTTATTAGCCAGTAACTTTCTCAACCCAGAGCAAATCAAGCTTTCCTTTGCCT
GGGAGGAAAAACAAAGGGAACCTAATTCTGAGAACTAA
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Clone variation with respect to NM_020345.3



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_020345 unedited TTCGCGGCTTAACCAGCGTCGGCGAATGGTCTCTCCGCGAGAGGAGGCAAGTTGGGGTCC AAGGCTCCAAAGCCGGTGGCCGCGTACCGCGGTGGAGCCGCTGTCTTTGAGGTCTTGAGG AGAAGACCAGACAGAGTTCTAGCTTCTTTACCCAGGCTGGAGTGAAGTGGTGAATCTC AGCTCAGTGCAACCTCCGCCCTGGGTTCAAGTGATTCTCTGCCTCAGCCTCCCCAGT AGCTGGGATTACAGTGATATCCTGAGAAAAATGGAAAGGGCTGCAAGGTTGTGGTTTG TGGATTGTTATCTGTGGGAAAACCTGCAATTTTGGAGCAGCTCCTTTATGAAAATCATA TATTGGAATGGAAGATTGCGAAAACAATGGAAGATGTATACATGGCTTCAGTAGAAAACAG CCGAGGAGTAAAAGAACAGTTACATCTTTATGACACCAGAGGTCTACAGGAAGGCGTGA GCTGCCAAAGCATTATTTTTTCAATTTGCTGATGGCTTCGTTCTTGTGTACAGTGTGAATA CCTTGAATCCTTTCAAAGAGTGGAGCTTCTGAAGAAAAGAAATCGATAAGTTCAAAGACAA AAAAGAGGTAGCAATTGTGGTATTAGGAAAACAAAATCGACCTTTCTGAGCAGAAAACAA GGACGCTGAAGTGGCACAGCAGTGGGCAAAAAGTGAAGAAAGTAAAGTGTNGGGAAGTGA CTGTNACAGNATCGNAACTCTGATTGAACCATTCACTTTATTAGCCAGTAACTTTCTC AACCCAGAGCAATCANGCTTTNCTTNNNGCTGGGAGGAAAACAAGGAAGTNNCTATCT GA</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_020345 unedited TTAAGTCTGGACCCGCGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTTT TGATACTTTTATTGTATATGACTAGTTTTCTAGAAAATATTCCAGAAGAACAGTCTTCC TTCCAGAAAATACAGCTTTACTGTCCTTAAGTGCCTAATCATTTCAGAGGAGGAGCAA ACAGTTTGCCTCAAGTATCTGGTCTATCAACAGGGGTCTGGCTAAGGAAAAACGGCCT TAGAGCGTGATGAACCTACTTAACACTACCTGGTACCTCAACTCATGCTAAACATTCTAA TTTGAGCAAAGCTAAATCATGGGTCTTAGTCTGTTTAGCAAAATCTCCACAAGATGAAAT TTAGCTTACTACCCAACTGTTCAATGTTTTGGGTCCAATTTAGACACAAAAAATGTT TTATAATCCTAGACATTAGATTAATGAACTTTTAAAAACAAAGTCATGTTTGGGCTTAG AAGTTTGATAATGTTACACAGAATGATTATGATATCTCCGAAACAGCTTGGGGTTGGG GGGAAAGTTACACATAGGTGCATTTGCATAACTATCCAACTATTTTACTGTTTTTACAAG TACAACATAAATAACAAAGGTGCTAATTTCAAAGACAGTTTTCAAACAATGAGAATAAGA ATATATTTTTCATATCANGGGCATATAACCTTAGCCAAATACTTTTAAACATCTAAAGT GCATTAATTGACTTNCTTANGAATTTTNNCTAGGACCAAAGGTAGATACCAATGGGCTAT TTAATATGATATATTCCTCCATGGTCACAGACACTTAAGGNNCATCACTATTACATAACA NTGGGNAANTACTGATTTTTAGTCTCAGATTTAGAGTCCCTTTGNTTTTTCTNCCAGCA ANGGAAAGCTGATTGCTCTGGGGGTGAGAAAGTACTGGGCTATAAGTGAATGGTCAATC AAAGTTTTCGATCTG</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_020345
Insert Size:	1770 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:	<ol style="list-style-type: none">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_020345.3 , NP_065078.1
RefSeq Size:	2013 bp
RefSeq ORF:	579 bp
Locus ID:	28512
UniProt ID:	Q9NYS0
Cytogenetics:	3p24.2
Domains:	ras, RAS, RAB
Gene Summary:	<p>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 mediating cytoplasmic retention 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.</p> <p>[UniProtKB/Swiss-Prot Function]</p>