

## Product datasheet for **SC324772**

### **NKIRAS2 (NM\_001144927) Human Untagged Clone**

#### Product data:

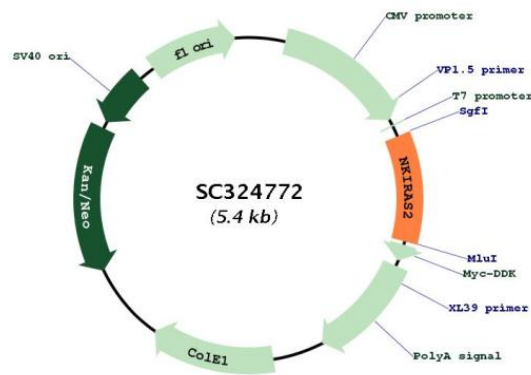
Product Type:	Expression Plasmids
Product Name:	NKIRAS2 (NM_001144927) Human Untagged Clone
Tag:	Tag Free
Symbol:	NKIRAS2
Synonyms:	kappaB-Ras2; KBRAS2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC324772 representing NM_001144927. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGAAGAGCTGCAAGGTGGTCGTGTGGCCAGGCGTCTGTGGGCAAACTCAATCCTGGAGCAG
CTTCTGTATGGGAACCATGTAGTGGTTCCGAGATGATCGAGACGCAGGAGGACATCTACGTGGGCTCC
ATTGAGACAGACCGGGGGTGCGAGAGCAGGTGCGTTTCTATGACACCCGGGGCTCCGAGATGGGGCC
GAACTGCCCGGACTGCTTCTTGCCTGACTGATGGCTACGTCCTGGTCTATAGCACAGATAGCAGAGAG
TCTTTTCAGCGTGTGGAGCTGCTCAAGAAGGAGATTGACAAATCCAAGGACAAGAAGGAGGTCACCATC
GTGGTCCTTGGCAACAAGTGTGACTTACAGGAGCAGCGGCGTGTAGACCCAGATGTGGCTCAGCACTGG
GCCAAGTCAGAGAAGGTGAAGCTGTGGGAGGTGTCAAGTGGCGGACCGGGCTCCCTCCTGGAGCCCTTT
GTCTACTTGCCAGCAAGATGACGCAACCCAGAGCAAGTCTGCCTTCCCCTCAGCCGGAAGAACAAG
GGCAGCGGCTCCTTGGATGGCTGA
ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: Sgfl-MluI



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**Plasmid Map:**


**ACCN:** NM\_001144927

**Insert Size:** 576 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).

**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\\_001144927.1](#)

RefSeq Size: 2493 bp

RefSeq ORF: 576 bp

Locus ID: 28511

UniProt ID: [Q9NYR9](#)

Cytogenetics: 17q21.2

MW: 21.5 kDa

**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 (3) differs in the 5' UTR, compared to variant 1, and encodes isoform a. Variants 1-3 encode the same protein (isoform a).