

Product datasheet for SC300171

NKIRAS2 (NM_001001349) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | NKIRAS2 (NM_001001349) 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: | >SC300171 representing NM_001001349. Blue=Insert sequence Red=Cloning site Green=Tag(s) |

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
 ATGGGGAAGAGCTGCAAGGTGGTCGTGTGGCCAGGCGTCTGTGGGCAAACTCAATCCTGGAGCAG
 CTTCTGTATGGGAACCATGTAGTGGTTTCGGAGATGATCGAGACGCAGGAGGACATCTACGTGGGCTCC
 ATTGAGACAGACCGGGGGTGCGAGAGCAGGTGCGTTTCTATGACACCGGGGGCTCCGAGATGGGGCC
 GAACTGCCCGACACTGCTTCTTGCCTGATGGCTACGTCCTGGTCTATAGCAGATAGCAGAGAG
 TCTTTTCAGCGTGTGGAGCTGCTCAAGAAGGAGATTGACAAATCCAAGGACAAGAAGGAGGTCACCATC
 GTGGTCCTTGGCAACAAGTGTGACTTACAGGAGCAGCGCGTGTAGACCCAGATGTGGCTCAGCACTGG
 GCCAAGTCAGAGAAGGTGAAGCTGTGGGAGGTGTCAAGTGGCGGACCGGCGCTCCCTCCTGGAGCCCTT
 GTCTACTTGCCAGCAAGATGACGCAACCCAGAGCAAGTCTGCCTTCCCCTCAGCCGGAAGAACAAG
 GGCAGCGGCTCCTTGGATGGCTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

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| Restriction Sites: | Sgfl-MluI |
| ACCN: | NM_001001349 |
| 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).


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| 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: | <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: | <u>NM_001001349.2</u> |
| RefSeq Size: | 2389 bp |
| RefSeq ORF: | 576 bp |
| Locus ID: | 28511 |
| UniProt ID: | <u>Q9NYR9</u> |
| Cytogenetics: | 17q21.2 |
| MW: | 21.5 kDa |
| 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 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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes isoform a. Variants 1-3 encode the same protein (isoform a).</p> |