

Product datasheet for RC223273

NKIRAS2 (NM 001001349) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: NKIRAS2 (NM_001001349) Human Tagged ORF Clone

Tag: Myc-DDK Symbol: NKIRAS2

Synonyms: kappaB-Ras2; KBRAS2

Mammalian Cell

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)ORF Nucleotide>RC223273 ORF sequence

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

CTCCTTGGATGGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC223273 protein sequence

Red=Cloning site Green=Tags(s)

MGKSCKVVVCGQASVGKTSILEQLLYGNHVVGSEMIETQEDIYVGSIETDRGVREQVRFYDTRGLRDGAE LPRHCFSCTDGYVLVYSTDSRESFORVELLKKEIDKSKDKKEVTIVVLGNKCDLQEORRVDPDVAQHWAK

SEKVKLWEVSVADRRSLLEPFVYLASKMTQPQSKSAFPLSRKNKGSGSLDG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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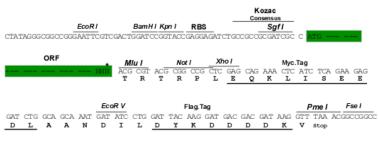
Chromatograms: https://cdn.origene.com/chromatograms/mk6355 h11.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_001001349

ORF Size: 573 bp

OTI Disclaimer: 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 clone was engineered to express the complete ORF with an expression tag. Expression

varies depending on the nature of the gene.

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: <u>NM 001001349.2</u>, <u>NP 001001349.1</u>

RefSeq Size: 2389 bp RefSeq ORF: 576 bp Locus ID: 28511



 UniProt ID:
 Q9NYR9

 Cytogenetics:
 17q21.2

 MW:
 21.5 kDa

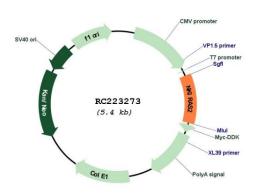
Gene Summary: Atypical Ras-like protein that acts as a potent regulator of NF-kappa-B activity by preventing

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.

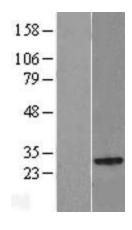
Both GTP- and GDP-bound forms block phosphorylation of NFKBIB (By similarity).

[UniProtKB/Swiss-Prot Function]

Product images:

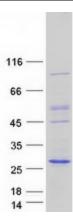


Circular map for RC223273



Western blot validation of overexpression lysate (Cat# [LY428581]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with [RC226742] using transfection reagent MegaTran 2.0 (Cat# [TT210002]).





Coomassie blue staining of purified NKIRAS2 protein (Cat# [TP323273]). The protein was produced from HEK293T cells transfected with NKIRAS2 cDNA clone (Cat# RC223273) using MegaTran 2.0 (Cat# [TT210002]).