

Product datasheet for RC204248

NKIRAS1 (NM 020345) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: NKIRAS1 (NM_020345) Human Tagged ORF Clone

Tag: Myc-DDK Symbol: NKIRAS1

Synonyms: kappaB-Ras1; KBRAS1

Mammalian Cell Neo

Selection:

Neomycin

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)ORF Nucleotide>RC204248 ORF sequence

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

 ${\tt TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC}$

GCCGCGATCGCC

CTCTAATTCTGAGAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC204248 protein sequence

Red=Cloning site Green=Tags(s)

MGKGCKVVVCGLLSVGKTAILEQLLYGNHTIGMEDCETMEDVYMASVETDRGVKEQLHLYDTRGLQEGVE LPKHYFSFADGFVLVYSVNNLESFORVELLKKEIDKFKDKKEVAIVVLGNKIDLSEORQVDAEVAQQWAK

SEKVRLWEVTVTDRKTLIEPFTLLASKLSQPQSKSSFPLPGRKNKGNSNSEN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV



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CN: techsupport@origene.cn

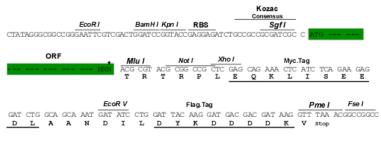
Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com Chromatograms: https://cdn.origene.com/chromatograms/mk6283 b02.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:





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

ACCN: NM_020345

ORF Size: 576 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.

RefSeg: NM 020345.4

RefSeq Size: 2013 bp RefSeq ORF: 579 bp Locus ID: 28512



UniProt ID: Q9NYS0

Cytogenetics: 3p24.2

Domains: ras, RAS, RAB

MW: 21.6 kDa

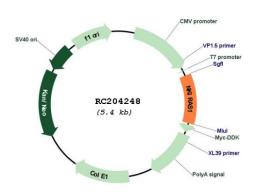
Gene Summary: Atypical Ras-like protein that acts as a potent regulator of NF-kappa-B activity by preventing

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 mediating cytoplasmic retention of p65/RELA NF-kappa-B subunit. It is unclear whether it acts

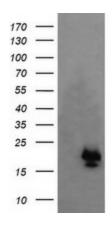
as a GTPase. Both GTP- and GDP-bound forms block phosphorylation of NFKBIB.

[UniProtKB/Swiss-Prot Function]

Product images:

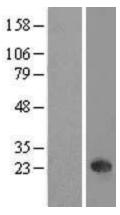


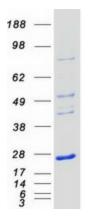
Circular map for RC204248



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY NKIRAS1 (Cat# RC204248, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-NKIRAS1(Cat# [TA505394]). Positive lysates [LY412541] (100ug) and [LC412541] (20ug) can be purchased separately from OriGene.







Western blot validation of overexpression lysate (Cat# [LY412541]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204248 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified NKIRAS1 protein (Cat# [TP304248]). The protein was produced from HEK293T cells transfected with NKIRAS1 cDNA clone (Cat# RC204248) using MegaTran 2.0 (Cat# [TT210002]).