

Product datasheet for **MG201849**

Nkiras1 (NM_023526) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nkiras1 (NM_023526) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Nkiras1
Synonyms: 2400004O09Rik; kappaB-Ras1; KBRAS1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG201849 representing NM_023526
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGGAAGGTTGCAAGTTGTCATTTGTGGTTGCTGTCTGTTGGGAAAAGTCAATTTGGAGCAAC
 TCCTTTATGGGAATCACACTATTGGGATGGAAGACTGTGAAACGCTGGAAGACGTGTACATGGCATCTGT
 AGAGACAGACCGTGGGGTGAAGGAGCAGCTGCATTGTATGACACCCGAGGCCTGCAGAAAGGCGTGGAG
 CTGCCAAAGCATTACTTCTCATTGCTGATGGCTTTGTTCTTGTGTATAGTGTGAATAACCTTGAGTCTT
 TCAAAGAGTGGAGCTTCTGAAGAAAGAGATTGATAAGTTCAAAGACAAAAGGAGGTGGCAATCGTTGT
 GTTAGGAAACAACTGGACCTTTCTGAGCAGAGACAGGTGGATGCTGACGTGGCACAACAGTGGGCAAGA
 AGTGAGAAAGTCAAGCTGTGGGAGGTGACAGTGACAGACCGGAGGACACTGATTGAACCTTCACTTTAC
 TGGCCAGCAAGCTTTCTCAGCCCAAGCAAAATCCAGCTTCCCTTTGCCTGGGAGGAAAAACAAAGGGAA
 CTCCAATCCCGAAAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG201849 representing NM_023526
 Red=Cloning site Green=Tags(s)

MGKCKVVICGLLSVGKTAILEQLLYGNHTIGMEDCETLEDVYMASVETDRGVKEQLHL YDTRGLQKGV E
 LPKHYFSFADGFVLYSVNNLESFQRVELLKKEIDKFKDKKEVAIVVLGNKLDLSEQRQVDADVAQQWAR
 SEKVKLWEVTVDRRTLIEPFTLLASKLSQPQSKSSFPLPGRKNKGNPNPEN

TRTRPLE - GFP Tag - V

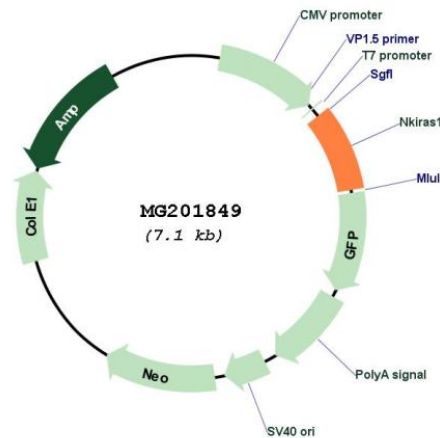
Restriction Sites: Sgfl-MluI



Cloning Scheme:



Plasmid Map:



ACCN: NM_023526

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.

RefSeq: [NM_023526.4](#), [NP_076015.2](#)

RefSeq Size: 4592 bp

RefSeq ORF: 579 bp

Locus ID: 69721

UniProt ID: [Q8CEC5](#)

Cytogenetics: 14 A1

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 (By similarity).[UniProtKB/Swiss-Prot Function]