

Product datasheet for RC207239

NKAIN4 (NM_152864) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NKAIN4 (NM_152864) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: NKAIN4
Synonyms: bA261N11.2; C20orf58; FAM77A
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >RC207239 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGCTCCTGCTCCGGCCGCTGCGCGCTCGTCGTCTCTGCGCTTTTCAGCTGGTCGCCGCCCTGGAGA
 GGCAGGTGTTGACTTCTGGGCTACCAGTGGGCGCCCATCTGGCCAACTTGTCCACATCATCATCGT
 CATCTGGGACTTTCGGCACCATCCAGTACCGGCTGCGCTATGTCATGGTGTACACGCTGTGGCAGCC
 GTCTGGGTACCTGGAACGTCTTCATCATCTGCTTCTACCTGGAAGTCGGTGGCCTTTAAAGGACAGCG
 AGCTACTGACCTCAGCCTCTCCGGCATCGCTCCTGGTGGCGTGAGCGCTGGCCAGGCTGTCTGCATGA
 GGAGGTGCCAGCAGTGGGCTCGGGGCCCCCATGGCCAGGCCCTGGTGTGAGGTGCTGGCTGTGCCCTG
 GAGCCCAGCTATGTGGAGGCCCTACACAGTTGCCTGCAGATCCTGATCGCGCTTCTGGGCTTTGTCTGTG
 GCTGCCAGGTGGTCAAGCTGTTTACGGATGAAGAGGACAGCTTTGATTTTCATTGGTGGATTTGATCCATT
 TCCTCTTACCATGTCAATGAAAAGCCATCCAGTCTCTTGTCCAAGCAGGTGTACTTGCCTGCG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC207239 protein sequence
 Red=Cloning site Green=Tags(s)

MGSCSGRCALVVLCAFQLVAALERQVDFLGYQWAPILANFVHIIIVILGLFGTIQYRLRYVMVYTLWAA
 VWVTWNVFIICFYLEVGLLKDSELLTFSLSRHRSWWRERWPGCLHEEVPVAVGLGAPHGQALVSGAGCAL
 EPSYVEALHSLQILIALLLGFVCGCQVVSFTDEEDSFDFIGGFDPFPLYHVNEKPSLLSKQVYLP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

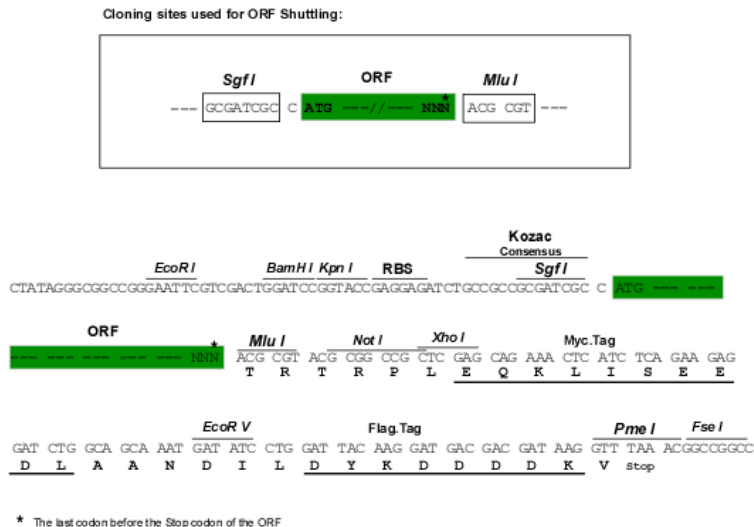


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Chromatograms: https://cdn.origene.com/chromatograms/mk6514_a03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_152864

ORF Size: 624 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_152864.2](#), [NP_690603.2](#)

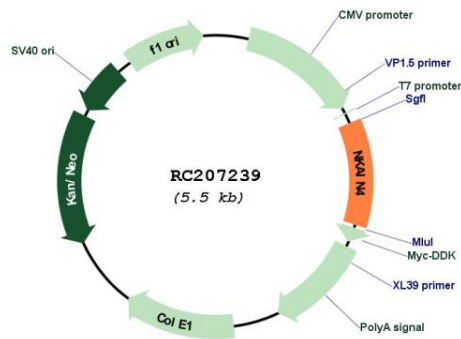
RefSeq Size: 1447 bp

RefSeq ORF: 627 bp

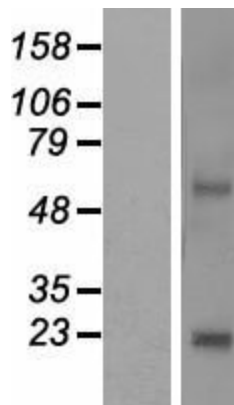
Locus ID: 128414

UniProt ID: [Q8IVV8](#)
Cytogenetics: 20q13.33
Protein Families: Transmembrane
MW: 23.2 kDa
Gene Summary: NKAIN4 is a member of a family of mammalian proteins (see NKAIN1; MIM 612871) with similarity to Drosophila Nkain and interacts with the beta subunit of Na,K-ATPase (ATP1B1; MIM 182330) (Gorokhova et al., 2007 [PubMed 17606467]).[supplied by OMIM, Jun 2009]

Product images:



Circular map for RC207239



Western blot validation of overexpression lysate (Cat# [LY407181]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207239 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).