

Product datasheet for **RC224166**

NKAIN3 (NM_173688) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Myc-DDK
Symbol:	NKAIN3
Synonyms:	FAM77D
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence: >RC224166 representing NM_173688
Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGGCTGCTGCACCGGACGCTGCTCGCTCATCTGCCTCTGCGCGCTGCAGTTGGTCTCAGCATTAGAGA
GGCAGATCTTTGACTTCCTTGGTTTCCAGTGGGCGCCTATTCTTGAAATTTCTACACATAATAGTTGT
CATATTGGGTTTGGTGGACCATTCAGTACAGACCTCGATACATAATGGTGTATACAGTGTGGACTGCC
CTCTGGGTACCTGGAATGTGTTTATTCTGCTTTTATTGGAAGTAGGTGGACTCTCAAAGGACACCG
ATCTAATGACATTCAATATCTCTGTACATCGGTATGGTGGAGAGAACATGGGCCTGGTTGTGTCAAG
AGTGTGCTCCCTCAGCCATGGCATGATGGACGATTACACGTACGTCTCTGTACAGGCTGCATCGTT
GACTTCCAGTACCTGGAGGTATCCACAGTGTGTCCAATACTACTCTCTTGGTGGGTTTGTGTATG
CCTGTTATGTGATCAGTATTTCCATGGAAGAAGAAGACACATTCATGTGATCTGCAAGTATGCAACA
TCTTTTATCCAGATGCTGCAAAATTATTGAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC224166 representing NM_173688
Red=Cloning site Green=Tags(s)

MGCCTGRCSLICALQLVSLERQIFDLGFQWAPILGNFLHIIVVILGLFGTIQYRPRYIMVYVWTA
LWVTWNVFIICFYLEVGLSKDIDLMTFNISVHRSWWREHGPVRRVLPSPAHGMMDDYTYVSVTGCIV
DFQYLEVIHSAVQILLSLVGFVYACYVISISMEEDTYSDDLQVCKHLFIQMLQIIE

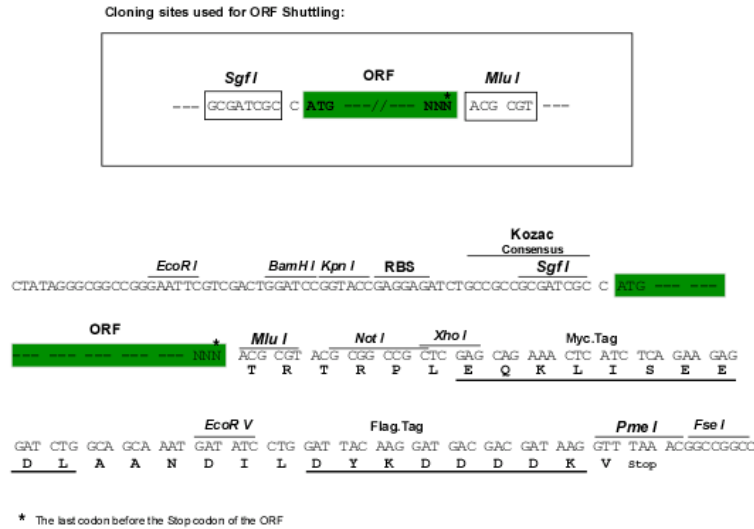
TRTRPLEQKLISEEDLAANDILDYKDDDDKV



Chromatograms: https://cdn.origene.com/chromatograms/mk6504_b10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_173688

ORF Size: 591 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.

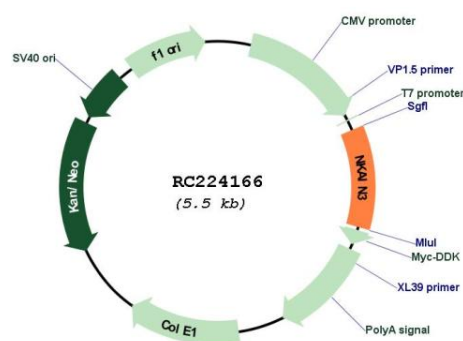
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:

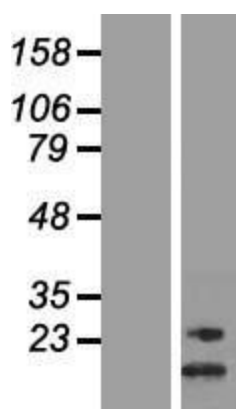
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_173688.2</u>
RefSeq Size:	1988 bp
RefSeq ORF:	594 bp
Locus ID:	286183
Cytogenetics:	8q12.3
Protein Families:	Transmembrane
MW:	22.4 kDa
Gene Summary:	NKAIN3 is a member of a family of mammalian proteins (see NKAIN1; MIM 612871) with similarity to Drosophila Nkain (Gorokhova et al., 2007 [PubMed 17606467]).[supplied by OMIM, Jun 2009]

Product images:



Circular map for RC224166



Western blot validation of overexpression lysate (Cat# [LY406560]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC224166 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).