

Product datasheet for **RC236570**

NKAIN2 (NM_001300737) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: NKAIN2 (NM_001300737) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: NKAIN2
Synonyms: FAM77B; NKAIP2; TCBA; TCBA1
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236570 representing NM_001300737
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGATCATTAGGTTTCTCTTATTATATTGTCCACAATATCTTAACCGTTTGTGTGCTGGAGAGGC
AAATATTTGACTTCCTTGGATATCAGTGGGCACCTATCCTGGCAAATTTGTACATATTATTATCGTCAT
TCTTGGTTTGTGGAACTATTCAATATAGACCTCGTTACATAACAGGATATGCTGTCTGGCTAGTCCTC
TGGTTACGTGGAATGTGTTTGTATCTGCTTCTATTTGGAGGCTGGGGACCTCTCAAAGGAAACAGACC
TTATCCTGACTTTTAATATATCAATGCACCGATCTTGGTGGATGGAGAATGGACCAGGATGTACGGTGAC
GTCAGTGACACCTGCCCCAGACTGGGCCCCAGAAGACCATCGCTACATCACGGTCTCAGGGTGTGCTG
GAGTACCAGTACATAGAAGTGGCTCATAGTTCCCTCCAGATTGCTCCTCGCACTGGCAGGTTTCATCTACG
CCTGTTATGTTGTGAAATGTATAACTGAAGAAGAGGACAGCTTTGATTTTCATAGGTGGCTTTGACTCTTA
TGGCTATCAAGGGCTCAGAAGACATCTCATTTACAACACAGCCTATGTACATGTCAAAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC236570 representing NM_001300737
Red=Cloning site Green=Tags(s)

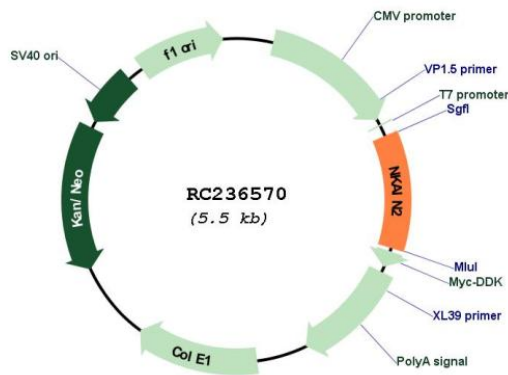
MGIIIRFLLLYCPTNILTVCVLERQIFDFLGYQWAPILANFVHIIIVILGLFGTIQYRPRYITGYAVWLVL
WVTWNVFVICFYLEAGDLSKETDLILTFNISMHRSWWMENGPCTVTSVTPAPDWAPEDHRYITVSGCLL
EYQYIEVAHSSLQIVLALAGFIYACYVVKCITEEEDSFDFIGGFDSYGYQGPQKTSHLQLQPMYMSK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



Cloning Scheme:

Plasmid Map:


ACCN: NM_001300737

ORF Size: 621 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_001300737.1](#), [NP_001287666.1](#)

RefSeq Size: 3457 bp

RefSeq ORF: 624 bp

Locus ID: 154215

UniProt ID: [Q5VXU1](#)

Cytogenetics: 6q22.31

Protein Families: Transmembrane

MW: 24.3 kDa

Gene Summary: This gene encodes a transmembrane protein that interacts with the beta subunit of a sodium/potassium-transporting ATPase. A chromosomal translocation involving this gene is a cause of lymphoma. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jul 2014]