

## Product datasheet for **RG236570**

### **NKAIN2 (NM\_001300737) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** NKAIN2 (NM\_001300737) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** NKAIN2  
**Synonyms:** FAM77B; NKAIP2; TCBA; TCBA1  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG236570 representing NM\_001300737.  
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGGATCATTAGTTTCTCTTATTATATTGTCCACAAATATCTTAACCGTTTGTGTGCTGGAGAGG
CAAATATTTGACTTCCTTGGATATCAGTGGGCACCTATCTGGCAAATTTGTACATATTATTATCGTC
ATTCTGGTTTGGTGGAACTATTCAATATAGACCTCGTTACATAACAGGATATGCTGTCTGGCTAGTC
CTCTGGTTACGTGGAATGTGTTTGTATCTGCTTCTATTTGGAGGCTGGGGACCTCTCAAAGGAAACA
GACCTTATCTGACTTTAATATATCAATGCACCGATCTTGGTGGATGGAGAATGGACCAGGATGTACG
GTGACGTCAGTGACACCTGCCCCAGACTGGGCCCCAGAAGACCATCGCTACATCACGGTCTCAGGGTGT
TTGCTGGAGTACCAGTACATAGAAGTGGCTCATAGTTCCTCCAGATTGTCTCGCACTGGCAGGTTTC
ATCTACGCCTGTTATGTTGTGAAATGTATAACTGAAGAAGAGGACAGCTTTGATTTTCATAGTGGCTTT
GACTCTTATGGCTATCAAGGGCCTCAGAAGACATCTCATTTACAACCTACAGCCTATGTACATGTCAA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

**Protein Sequence:** >Peptide sequence encoded by RG236570  
Blue=ORF Red=Cloning site Green=Tag(s)

```
MGIIRFLLLYCPTNILTVCVLERQIFDFLGYQWAPILANFVHIIIVILGLFGTIQYRPRYITGYAVWL
LWVTWNVFVICFYLEAGDLSKETDLILTFNISMHRSSWMENPGCTVTSVTPAPDWAPEDHRYITVSGC
LLEYQYIEVAHSSLQIVLALAGFIYACYVVKCITEEEDSFDFIGGFDSYGYQGPQKTSHLQLQPMYSK
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNNGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLSRDGGYSSVVDSHMHFKSAIHP SILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

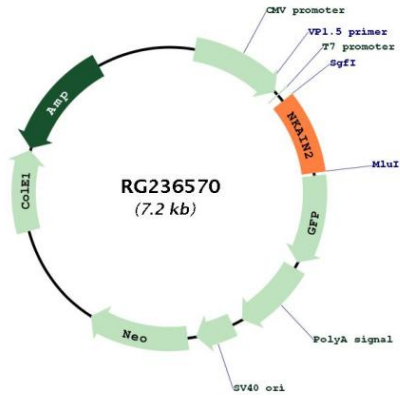
**Restriction Sites:** Sgfl-MluI



**Cloning Scheme:**


- 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).
- 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]

Product images:



Circular map for RG236570