

Product datasheet for **RG207239**

NKAIN4 (NM_152864) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	NKAIN4
Synonyms:	bA261N11.2; C20orf58; FAM77A
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence: >RG207239 representing NM_152864
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCTGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGCTCCTGCTCCGGCCGCTGCGCGCTCGTCGCTCTGCGCTTTTCAGCTGGTCGCCGCCCTGGAGA
GGCAGGTGTTTGACTTCTGGGCTACCACTGGGCGCCCATCTGGCCAACCTTTGTCCACATCATCATCGT
CATCTGGGACTCTTGGCACCACCATCCAGTACCGGCTGCGCTATGTCATGGTGTACACGCTGTGGGCAGCC
GTCTGGGTACCTGGAACGTCTTCATCATCTGCTTCTACCTGGAAGTCGGTGGCCTCTTAAGGACAGCG
AGCTACTGACCTTCAGCCTCTCCCGCATCGCTCCTGGTGGCGTGAGCGCTGGCCAGGCTGTCTGCATGA
GGAGGTGCCAGCAGTGGGCTCGGGGCCCCCATGGCCAGGCCCTGGTGTACAGGTGCTGGCTGTGCCCTG
GAGCCAGCTATGTGGAGGCCCTACACAGTTGCCTGCAGATCCTGATCGCGCTTCTGGGCTTTGTCTGTG
GCTGCCAGGTGGTCAGCGTGTACGGATGAAGAGGACAGCTTTGATTTATTGGTGGATTTGATCCATT
TCCTCTTACCATGTCAATGAAAAGCCATCCAGTCTCTGTCCAAGCAGGTGTACTTGCCTGCG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG207239 representing NM_152864
Red=Cloning site Green=Tags(s)

MGSCSGRCALVVLCAFLVAALERQVDFDLGYQWAPILANFVHIIIVILGLFGTIQYRLRYVMVYTLWAA
VWVTWNVFIICFYLEVGLLKDSSELLTFSLSRHSRWWRERWPGCLHEEVPAVGLGAPHGQALVSGAGCAL
EPSYVEALHSCLQILIALLLGFVCGCQVVSFTDEEDSFDFIGGFDPFPLYHVNEKPSSLLSKQVYLP

TRTRPLE - GFP Tag - V

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_152864.2](#), [NP_690603.2](#)

RefSeq Size: 1441 bp

RefSeq ORF: 627 bp

Locus ID: 128414

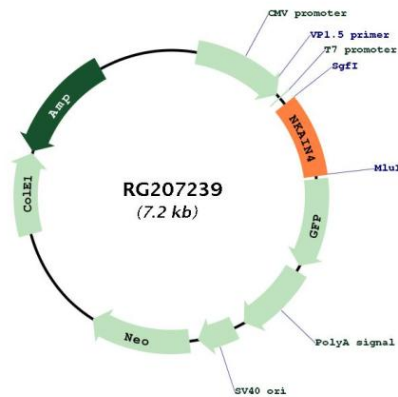
UniProt ID: [Q8IVV8](#)

Cytogenetics: 20q13.33

Protein Families: Transmembrane

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 RG207239