

## Product datasheet for **RC223926**

### **Nck beta (NCK2) (NM\_001004722) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Nck beta (NCK2) (NM\_001004722) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** NCK2  
**Synonyms:** GRB4; NCKbeta  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC223926 representing NM\_001004722  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

**ATGACAGAAGAAGTTATTGTGATAGCCAAGTGGGACTACACCGCCAGCAGGACCAGGAGCTGGACATCA**  
**AGAAGAACGAGCGGCTGTGGTTGCTGGACGACTCCAAGACGTGGTGGCGGTGAGGAACGCGCCACACG**  
**GACGGGCTATGTACCGTCCAACACGTGGAGCGGAAGAACAGCCTGAAGAAGGGCTCCCTCGTGAAGAAC**  
**CTGAAGGACACACTAGCCAGCGACTTCTCCGTGCCCT**

**ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT**  
**ACAAGGATGACGACGATAAGGTTTAA**

**Protein Sequence:** >RC223926 representing NM\_001004722  
Red=Cloning site Green=Tags(s)

MTEEVIVIAKWDYTAQQDQELDIKNERLWLLDDSKTWWRVNAANRTGYVPSNYVERKNSLKKGSLVKN  
LKDTLAQRLLRVP

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Restriction Sites:** Sgfl-MluI

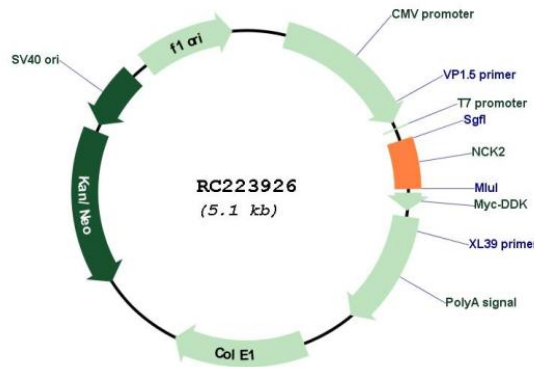


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_001004722

ORF Size: 249 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](#)

<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001004722.3</a></u> , <u><a href="#">NP_001004722.1</a></u>
<b>RefSeq Size:</b>	1795 bp
<b>RefSeq ORF:</b>	252 bp
<b>Locus ID:</b>	8440
<b>Cytogenetics:</b>	2q12.2
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Axon guidance, ErbB signaling pathway, Pathogenic Escherichia coli infection, T cell receptor signaling pathway
<b>MW:</b>	9.8 kDa
<b>Gene Summary:</b>	This gene encodes a member of the NCK family of adaptor proteins. The protein contains three SH3 domains and one SH2 domain. The protein has no known catalytic function but has been shown to bind and recruit various proteins involved in the regulation of receptor protein tyrosine kinases. It is through these regulatory activities that this protein is believed to be involved in cytoskeletal reorganization. Alternate transcriptional splice variants, encoding different isoforms, have been characterized. [provided by RefSeq, Jul 2008]