

Product datasheet for RC202557

Nck beta (NCK2) (NM_003581) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nck beta (NCK2) (NM_003581) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nck beta
Synonyms:	GRB4; NCKbeta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC202557 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACAGAAGAAGTTATTGTGATAGCCAAGTGGGACTACACCGCCAGCAGGACCAGGAGCTGGACATCA
AGAAGAACGAGCGGCTGTGGTTGCTGGACGACTCCAAGACGTGGTGGCGGGTGAAGAACGCGCCAAACAG
GACGGGCTATGTACCGTCCAACACGTGGAGCGGAAGAAGACAGCCTGAAGAAGGGCTCCCTCGTGAAGAAC
CTGAAGGACACACTAGGCCTCGCAAGACGCGCAGGAAGACCAGCGCGGGATGCGTCCCCACGCCCA
GCACGGACGCGGAGTACCCGCCAATGGCAGCGCGCCGACCGCATCTACGACCTCAACATCCCGGCCTT
CGTCAAGTTCGCCTATGTGGCCGAGCGGGAGGATGAGTTGTCCTGGTGAAGGGTGCAGCGTACCGCTC
ATGGAGAAGTGCAGCGACGGTTGGTGGCGGGCAGCTACAACGGGACGATCGGCTGGTCCCTCCAAC
ACGTCTTGAGGAGGTGGACGAGGCGGCTGCGGAGTCCCCAAGCTTCTGAGCCTGCGCAAGGGCGCCTC
GCTGAGCAATGGCCAGGGCTCCCGCGTGTGCATGTGGTCCAGACGCTGTACCCCTCAGCTCAGTCACC
GAGGAGGAGCTCAACTTCGAGAAGGGGGAGACCATGGAGGTGATTGAGAAGCCGGAGAACGACCCCGAGT
GGTGGAAATGCAAAAATGCCCGGGCCAGGTGGCCTCGTCCCCAAAACTACGTGGTGGTCCCTCAGTGA
CGGGCTGCCCTGCACCTGCGCACGCCACAGATAAGCTACACCGGGCCCTCGTCCAGCGGGCGCTTC
GCGGGCAGAGAGTGGTACTACGGAACTGACCGCGCACCGAGTCCCGGAGTCCGCTCAACGAGCGGGGCG
TGGAGGGCGACTTCTCATTAGGGACAGCGAGTCTCGCCAGCGACTTCTCCGTGTCCCTTAAAGCGTC
AGGGAAGAACAACAACACTTCAAGGTGCAGCTCGTGGACAATGTCTACTGCATTGGGAGCGGCGCTTCCAC
ACCATGGACGAGCTGGTGAACACTACAAAAGGCGCCATCTTACCAGCGAGCACGGGAGAAGCTCT
ACCTCGTACGGCCCTGCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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_003581.5](#)

RefSeq Size: 2517 bp

RefSeq ORF: 1143 bp

Locus ID: 8440

UniProt ID: [O43639](#)

Cytogenetics: 2q12.2

Domains: SH2, SH3

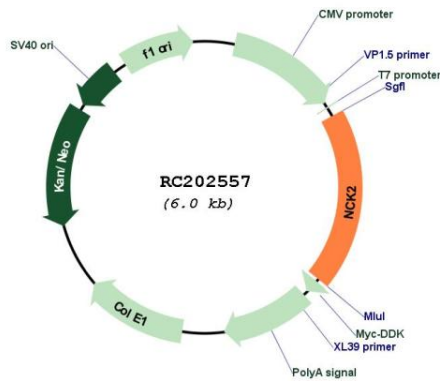
Protein Families: Druggable Genome

Protein Pathways: Axon guidance, ErbB signaling pathway, Pathogenic Escherichia coli infection, T cell receptor signaling pathway

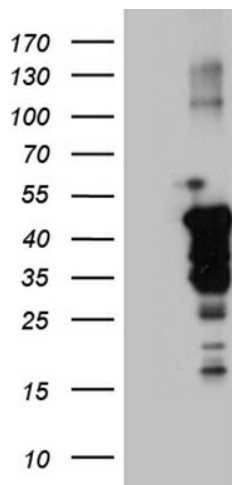
MW: 42.9 kDa

Gene Summary: 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]

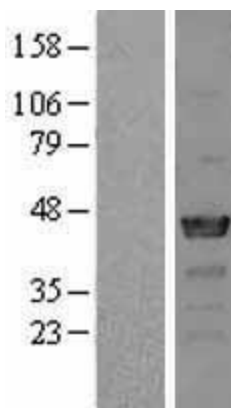
Product images:



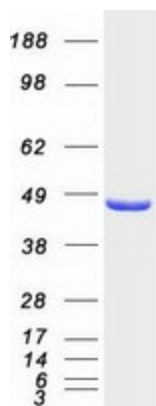
Circular map for RC202557



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY NCK2 (Cat# RC202557, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-NCK2 (Cat# [TA811057]). Positive lysates [LY401190] (100ug) and [LC401190] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY401190]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202557 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified NCK2 protein (Cat# [TP302557]). The protein was produced from HEK293T cells transfected with NCK2 cDNA clone (Cat# RC202557) using MegaTran 2.0 (Cat# [TT210002]).