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Product datasheet for RC202869

Nck (NCK1) (NM_006153) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nck (NCK1) (NM_006153) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nck
Synonyms:	NCK; nck-1; NCKalpha
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

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>RC202869 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCAGAAGAAGTGGTGGTAGTAGCCAAATTTGATTATGTGGCCCAACAAGAACAAGAGTTGGACATCA
AGAAGAATGAGAGATTATGGCTTCTGGATGATTCTAAGTCCTGGTGGCGAGTTCGAAATTCCATGAATAA
AACAGGTTTTGTGCCTTCTAACTATGTGGAAAGGAAAAACAGTGCTCGGAAAGCATCTATTGTGAAAAAC
CTAAAGGATACCTTAGGCATTGGAAAAGTGAAAAGAAAACCTAGTGTGCCAGATTCTGCATCTCCTGCTG
ATGATAGTTTTGTTGACCCAGGGGAACGTCTCTATGACCTCAACATGCCCGCTTATGTGAAATTTAACTA
CATGGCTGAGAGAGAGGATGAATTATCATTGATAAAGGGGACAAAGGTGATCGTCATGGAGAAATGCAGT
GATGGGTGGTGGCGTGGTAGCTACAATGGACAAGTTGGATGGTTCCCTTCAAACTATGTAACTGAAGAAG
GTGACAGTCCTTTGGGTGACCATGTGGGTTCTCTGTCAGAGAAATTAGCAGCAGTCGTCAATAACCTAAA
TACTGGGCAAGTGTTGCATGTGGTACAGGCTCTTTACCCATTCAGCTCATCTAATGATGAAGAACTTAAT
TTCGAGAAAGGAGATGTAATGGATGTTATTGAAAAACCTGAAAATGACCCAGAGTGGTGGAAATGCAGGA
AGATCAATGGTATGGTTGGTCTAGTACCAAAAAACTATGTTACCGTTATGCAGAATAATCCATTAACTTC
AGGTTTGGAACCATCACCTCCACAGTGTGATTACATTAGGCCTTCACTCACTGGAAAGTTTGCTGGCAAT
CCTTGGTATTATGGCAAAGTCACCAGGCATCAAGCAGAAATGGCATTAAATGAAAGAGGACATGAAGGGG
ATTTCCTCATTCGTGATAGTGAATCTTCGCCAAATGATTTCTCAGTATCACTAAAAGCACAAGGGAAAAA
CAAGCATTTTAAAGTCCAACTAAAAGAGACTGTCTACTGCATTGGGCAGCGTAAATTCAGCACCATGGAA
GAACTTGTAGAACATTACAAAAAGGCACCAATTTTTACAAGTGAACAAGGAGAAAAATTATATCTTGTCA
AGCATTTATCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA
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Protein Sequence:

```
>RC202869 protein sequence
Red=Cloning site Green=Tags(s)

MAEEVVVVAKFDYVAQQEQELDIKKNERLWLLDDSKSWWRVRNSMNKTGFVPSNYVERKNSARKASIVKN
LKDTLGIGKVKRKPSVPDSASPADDSFVDPGERLYDLNMPAYVKFNYMAEREDELSLIKGTKVIVMEKCS
DGWWRGSYNGQVGWFPSNYVTEEGDSPLGDHVGSLSEKLAAVVNNLNTGQVLHVVQALYPFSSSNDEELN
FEKGDVMDVIEKPENDPEWWKCRKINGMVGLVPKNYVTVMQNNPLTSGLEPSPPQCDYIRPSLTGKFAGN
PWYYGKVTRHQAEMALNERGHEGDFLIRDSESSPNDFSVSLKAQGKNKHFKVQLKETVYCIGQRKFSTME
ELVEHYKKAPIFTSEQGEKLYLVKHLS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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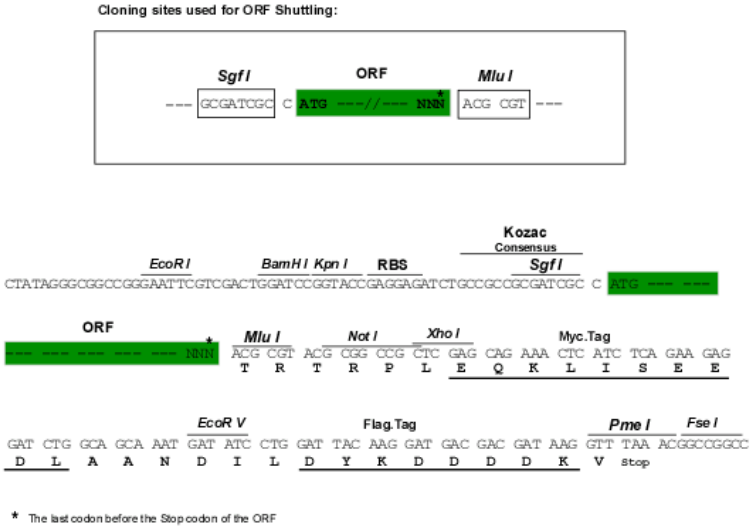
Chromatograms: https://cdn.origene.com/chromatograms/mk6152_h03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_006153

ORF Size: 1131 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).

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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_006153.6
RefSeq Size:	4421 bp
RefSeq ORF:	1134 bp
Locus ID:	4690
UniProt ID:	P16333
Cytogenetics:	3q22.3
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:	The protein encoded by this gene is one of the signaling and transforming proteins containing Src homology 2 and 3 (SH2 and SH3) domains. It is located in the cytoplasm and is an adaptor protein involved in transducing signals from receptor tyrosine kinases to downstream signal recipients such as RAS. Alternatively spliced transcript variants encoding different isoforms have been found. [provided by RefSeq, Jun 2010]

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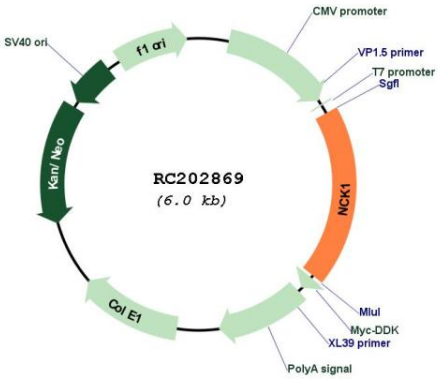
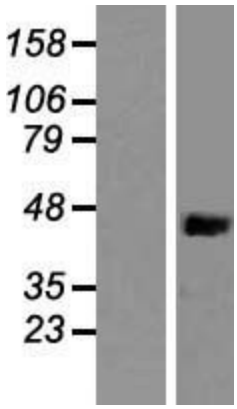
Product images:



Circular map for RC202869



Western blot validation of overexpression lysate (Cat# [LY416832]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202869 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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