OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for MR205875

Nck1 (NM_010878) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nck1 (NM_010878) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nck1
Synonyms:	6330586M15Rik; D230010O13Rik; Nck; Nck-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>MR205875 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTGAAGAAGTGGTGGTGGTGGCCAAATTTGATTATGTGGCACAGCAGGAACAAGAGCTGGATATCA
AGAAGAATGAGCGATTATGGCTCCTGGATGACTCTAAATCCTGGTGGCGAGTTCGAAATTCCATGAATAA
AACAGGTTTTGTCCCTTCTAACTATGTGGAAAGAAAAAACAGTGCTCGGAAAGCATCTATTGTTAAAAAC
CTGAAGGACACCTTAGGTATTGGAAAAGTGAAAAGAAAACCCAGTGTTCCAGATACTGCATCTCCTGCTG
ATGATAGCTTTGTTGATCCAGGAGAACGTCTCTATGACCTTAACATGCCTGCTTTTGTGAAATTTAACTA
CATGGCTGAGAGAGAGGATGAGTTGTCATTGATAAAAGGGACCAAGGTGATCGTCATGGAGAAATGCAGT
GATGGATGGTGGCGTGGCAGCTACAACGGACAAATTGGATGGTTTCCTTCAAACTATGTAACTGAAGAAG
GTGACAGTCCTTTGGGTGATCATGTAGGTTCTCTGTCAGAGAAATTAGCAGCAGTTGTCAATAACCTAAA
TACGGGTCAAGTATTGCATGTTGTACAGGCTCTTTACCCGTTTAGCTCATCCAATGATGAAGAACTCAAT
TTTGAGAAAGGCGATGTAATGGATGTTATTGAAAAGCCGGAAAATGACCCAGAGTGGTGGAAATGCAGGA
AAATCAATGGCATGGTTGGCCTGGTGCCAAAAAACTACGTTACCATTATGCAAAACAATCCATTAACCTC
AGGTTTGGAACCATCTCCTCCACAATGTGATTACATTAGGCCTTCACTCACTGGGAAGTTTGCTGGCAAT
CCTTGGTATTATGGCAAAGTCACCAGGCACCAGGCAGAAATGGCATTAAATGAAAGAGGGCATGAAGGAG
ACTTCCTCATTCGTGACAGTGAATCTTCGCCAAATGATTTCTCAGTATCACTAAAAGCACAAGGGAAAAA
CAAGCATTTTAAAGTCCAGCTGAAAGAGACTGTTTACTGCATTGGGCAGCGGAAATTCAGCACCATGGAG
GAACTTGTAGAACATTACAAAAAGGCACCGATCTTTACAAGTGAGCAAGGAGAAAAATTATATCTCGTCA
AGCATTTGTCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

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Protein Sequence:

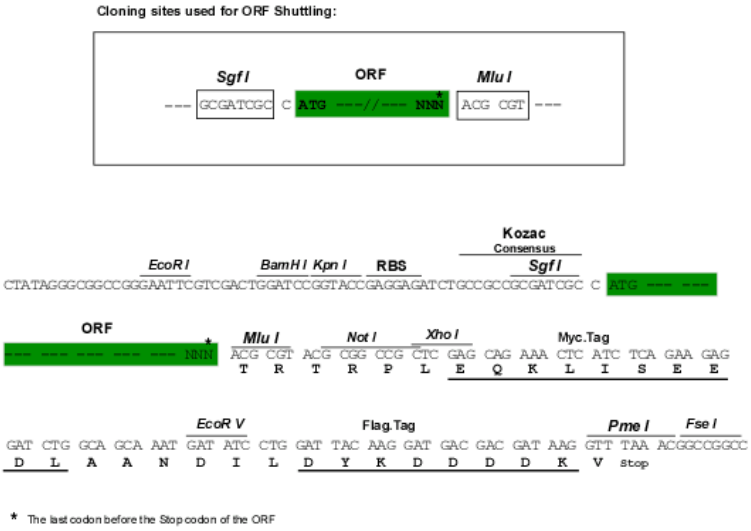
>MR205875 protein sequence
Red=Cloning site Green=Tags(s)

MAEEVVVVAKFDYVAQQEQELDIKKNERLWLLDDSKSWWRVRNSMNKTGFVPSNYVERKNSARKASIVKN
LKDTLGIGKVKRKPSVPDTASPADDSFVDPGERLYDLNMPAFVKFNYMAEREDELSLIKGTKVIVMEKCS
DGWWRGSYNGQIGWFPSNYVTEEGDSPLGDHVGSLSEKLAAVVNNLNTGQVLHVVQALYPFSSSNDEELN
FEKGDVMDVIEKPENDPEWWKCRKINGMVGLVPKNYVTIMQNNPLTSGLEPSPPQCDYIRPSLTGKFAGN
PWYYGKVTRHQAEMALNERGHEGDFLIRDSESSPNDFSVSLKAQGKNKHFKVQLKETVYCIGQRKFSTME
ELVEHYKKAPIFTSEQGEKLYLVKHLS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_010878

ORF Size: 1134 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.

RefSeq: NM_010878.3, NP_035008.2

RefSeq Size: 1699 bp

RefSeq ORF: 1134 bp

Locus ID: 17973

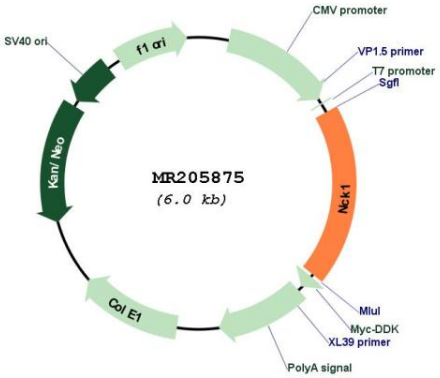
UniProt ID: Q99M51

Cytogenetics: 9 E3.3

MW: 42.9 kDa

Gene Summary: Adapter protein which associates with tyrosine-phosphorylated growth factor receptors, such as KDR and PDGFRB, or their cellular substrates. Maintains low levels of EIF2S1 phosphorylation by promoting its dephosphorylation by PP1. Plays a role in the DNA damage response, not in the detection of the damage by ATM/ATR, but for efficient activation of downstream effectors, such as that of CHEK2. Plays a role in ELK1-dependent transcriptional activation in response to activated Ras signaling. Modulates the activation of EIF2AK2/PKR by dsRNA (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205875