

## Product datasheet for MR227128

### Nck2 (NM\_010879) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Nck2 (NM_010879) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nck2
Synonyms:	4833426I10Rik; Grb4; Nck-2; NCKbeta
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR227128 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGACAGAAGAAGTCATTGTCATAGCCAAGTGGGACTACACTGCCAGCAGGACCAGGAGCTCGACATCA  
GGAAGAACGAGCGGTTGTGGCTGCTAGATGACTCCAAGACGTGGTGGCGGGTGAAGAATGCTGCCAACAG  
GACAGGCTACGTGCCTTCCAACATGTGGAGCGTAAGAACAGCCTGAAGAAGGGCTCCCTGGTGAAGAAC  
CTCAAGGACACACTAGGCTCGAAAGACGCGCAGGAAGCCAAGCGCTCGGGATGCTTCCCAACGCCAA  
GCACTGATGCGGAGTACCCAGCCAATGGCAGCGGTGCTGACCGCATCTATGACCTCAACATCCCAGCCTT  
TGTCAAGTTCGCCTACGTAGCAGAACGAGAGGATGAGCTGTCCCTGGTGAAGGGCTCCCGTGTACAGTT  
ATGGAGAAATGCAGTGATGGCTGGTGGCGTGGCAGCTTCAACGGGCAGATCGGCTGGTCCCTCCAAC  
ACGTTTTGGAGGAAGCGGACGAAGCTGCTGCTGAGGCCCCAGCTTCTGAGCCTACGTCGGGGCACTGC  
ACTGAGCAATGGGAGGGTGCACGGGTGCTGCACGTGGTGACAGCGTGTACCCCTCAGCTCGGTCACT  
GAGGAGGAGCTTAGTTTCGAGAAGGGGGAGACCATGGAGGTGATTGAGAAGCCGGAGAATGACCCTGAAT  
GGTGGAAATGCAAAAATGCCCGAGGCCAAGTGGCCTGGTCCCCAAAACACTCGTGGTGTCTCAGTGA  
TGGCCTGCTCTGCACCCCGCTCACACCCCCAGATCAGCTACACCGGCCTTCAGCCAGCGGGCGCTT  
GCTGGTCGGGAGTGGTACTATGGCAACGTGACACGGCACCGGAGTGTGCGTCAATGAGCGGGCGG  
TCGAGGGCGACTTCTCATTAGGGACAGCGAGTCTCGCCAGTGACTTCTCCGTGTCTCTCAAAGCGTC  
AGGGAGAAAACAAGCACTTCAAGGTGCAGCTGGTGGACAGCGTCTACTGCATTGGGAGCGCGGTTCCAC  
AGCATGGACGAGCTTGTGGAGCACTACAAGAAGGCCCCATCTTACCAGCGAGCACGGGAGAAGCTCT  
ACCTTGTCCGAGCCCTACAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR227128 protein sequence  
 Red=Cloning site Green=Tags(s)

MTEEVIVIAKWDYTAQQDQELDIRKNERLWLLDDSKTWWRVNRNAANRTGYVPSNYVERKNSLKKGSLVKN  
 LKDTLGLGKTRRKPSARDASPTPSTDAEYPANGSGADRIYDLNIPAFVKFAYVAEREDLSLVKGSRVTV  
 MEKCSGDWWRGSFNGQIGWFPNSYVLEEADAEAAEAPSFLSLRRGTALSNQGARVLHVVTLYPFSVTV  
 EEELSFEKGETMEVIEKPENDPEWVKCKNARGQVGLVPKNYVVVLSDPALHPAHTPQISYTGPSASGRF  
 AGREWYYGNVTRHQAEALNERGVEGDFLIRDSESSPSDFSVSLKASGRNKHFKVQLVDSVYVICIGQRRFH  
 SMDELVEHYKKAPIFTSEHGKLYLVRALQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_010879

**ORF Size:** 1143 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\\_010879.1](#), [NM\\_010879.2](#), [NM\\_010879.3](#), [NP\\_035009.3](#)

**RefSeq Size:** 2789 bp

**RefSeq ORF:** 1143 bp

**Locus ID:** 17974

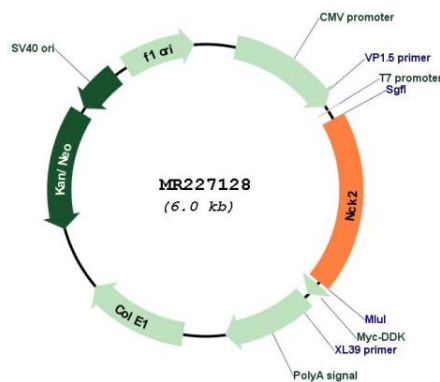
**UniProt ID:** [O55033](#)

**Cytogenetics:** 1 C1.1

**MW:** 42.9 kDa

**Gene Summary:** Adapter protein which associates with tyrosine-phosphorylated growth factor receptors or their cellular substrates. Maintains low levels of EIF2S1 phosphorylation by promoting its dephosphorylation by PP1. Plays a role in ELK1-dependent transcriptional activation in response to activated Ras signaling (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR227128