

## Product datasheet for **MG205875**

### **Nck1 (NM\_010878) Mouse Tagged ORF Clone**

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Nck1 (NM_010878) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nck1
Synonyms:	6330586M15Rik; D230010O13Rik; Nck; Nck-1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205875 representing NM_010878 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGAAGAAGTGGTGGTGGTGGCCAAATTTGATTATGTGGCACAGCAGGAACAAGAGCTGGATATCA  
AGAAGAATGAGCGATTATGGCTCCTGGATGACTCTAAATCCTGGTGGCGAGTTCGAAATCCATGAATAA  
AACAGGTTTTGTCCCTTCTAACTATGTGAAAGAAAAACAGTGTCTGGAAAGCATCTATTGTTAAAAAC  
CTGAAGGACACCTTAGGTATTGAAAAGTGAAGAAAACCCAGTGTCCAGATACTGCATCTCCTGCTG  
ATGATAGCTTTGTTGATCCAGGAGAACGTCTCTATGACCTTAACATGCCTGCTTTTGTGAAATTTAACTA  
CATGGCTGAGAGAGAGGATGAGTTGTCATTGATAAAAGGGACCAAGGTGATCGTCATGGAGAAATGCAGT  
GATGGATGGTGGCGTGGCAGCTACAACGGACAAATTTGGATGGTTTCTTCAAACCTATGTAACGAAGAAG  
GTGACAGTCCCTTTGGGTGATCATGTAGGTTCTCTGTGACAGAAATTAGCAGCAGTTGTCAATAACCTAAA  
TACGGGTCAAGTATTGCATGTTGTACAGGCTCTTACCCTTTAGCTCATCCAATGATGAAGAACTCAAT  
TTTGAGAAAGGCGATGTAATGGATGTTATTGAAAAGCCGAAAATGACCCAGAGTGGTGGAAATGCAGGA  
AAATCAATGGCATGGTTGGCCTGGTGCCAAAAAATACGTTACCATTATGCAAAACAATCCATTAACCTC  
AGGTTTGAACCATCTCCTCCACAATGTGATTACATTAGGCCTTCACTCACTGGGAAGTTTGTCTGGCAAT  
CCTTGGTATTATGGCAAAGTACCAGGCACAGCAGAAATGGCATTAAATGAAAGAGGGCATGAAGGAG  
ACTTCTCATTTCGTGACAGTGAATCTTCGCCAAATGATTTCTCAGTATCACTAAAAGCACAAAGGAAAAA  
CAAGCATTTTAAAGTCCAGCTGAAAGAGACTGTTTACTGCATTGGGCAGCGGAAATTCAGCACCATGGAG  
GAACTTGTAGAACATTACAAAAGGCACCGATCTTTACAAGTGAAGCAAGGAGAAAAATTATATCTCGTCA  
AGCATTGTCT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG205875 representing NM\_010878  
Red=Cloning site Green=Tags(s)

MAEEVVVAKFDYVAQQEQELDIIKNERLWLLDDSKSWWRVRNSMNKTGFVPSNYVERKNSARKASIVKN  
 LKDTLGIGKVKRKPSPVDTASPADDSFVDPGERLYDLNMPAFVKFNMAEREDEL SLIKGTKVIVMEKCS  
 DGWWRGSYNGQIGWFPSNYVTEEGDSPLGDHVGSLSEKLAAVVNNLNTGQVLHVQALYFSSSND EELN  
 FEKGDVMDVIEKPENDPEWVKCRKINGMVGLVPKNYVTIMQNNPLTSGLEPSPQCDYIRPSLTGKFAGN  
 PWYYGKVTRHQAEMALNERGEGDFLIRDSESSPND FSVSLKAQGNKHKFKVQLKETVYICGQRKFSTME  
 ELVEHYKKAPIFTSEQGEKLYLVKHL S

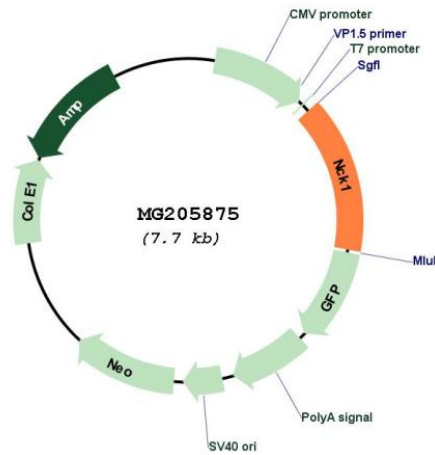
TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_010878

<b>ORF Size:</b>	1131 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<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>	<a href="#">NM_010878.3</a> , <a href="#">NP_035008.2</a>
<b>RefSeq Size:</b>	1699 bp
<b>RefSeq ORF:</b>	1134 bp
<b>Locus ID:</b>	17973
<b>UniProt ID:</b>	<a href="#">Q99M51</a>
<b>Cytogenetics:</b>	9 E3.3
<b>Gene Summary:</b>	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]