

## Product datasheet for **RC232453**

### **NKD2 (NM\_001271082) Human Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** NKD2 (NM\_001271082) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** NKD2  
**Synonyms:** Naked2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC232453 representing NM\_001271082  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGGGAAACTGCAGTCGAAGCACGCCGCCGCCGCCGCAAGCGGAGAGAGAGCCCGGAAGGGGACAGCT  
TCGTGGCGTCCGCGTACGCGAGCGGCCGCAAAGCGCGGAGGAAGCGGAGCGCGCGCGGGACAAGCA  
GGAGCTGCCAAATGGGGACCCAAAGGAGGGCCCTTCCGGGAGGACCAGTGTCCCTACAGGTGGCACTC  
CCCGCTGAGAAAGCTGAGGGCCGCGAGCACCCGGGACAACCTCCTCAGCGCAGATGACGGAGAGAGGGCAG  
CAAACCGCGAGGGCCCGCGAGGACCGGGCGGGCAGCGCCTCAACATTGACGCACTCCAGTGCATGTCTC  
GGTGGAGGAGGACGACCGCCAGGAGTGGACGTTACGCTCTATGACTTTGACAACCTGCGGGAAGGTCACC  
AGGGAGGACATGTCCAGCCTCATGCACACCATCTATGAGGTGCGTGGATGCCTCGGTCAACCACTCCTCGG  
GCAGCAGCAAGACCCTCCGTGTGAAGCTAACCGTCAGCCCTGAGCCCTCCAGCAAGAGGAAGGAGGGTCC  
TCCTGCTGGCCAGGACCGGGAGCCACCCGTTGCAGGATGGAGGGTGAACCTGGCAGAGGACCAAGGGTG  
GCTGACAGGAGGTTGTCTGCACACGTGAGGAGGCCAGTACTGACCCCAAGCCCTGCTCGGAGCGGGGGC  
CCTACTGCGTGGACGAGAACACGGAGCGCAGAAACCACTACCTGGACCTCGCCGGGATTGAGAACTACAC  
GTCCAGATTCGGCCCTGGGTCTCAGCTGTGCGAGAAGAGAAGCTCCGCTCCAGGACACACAGTGGGGAC  
AAGGCTAGAGGAGTCGGCCTTTGCAGGGAGCTGTGGAGCCAGGCAGGTCACCCACAGTGGCCAGGCCCT  
TCCCTTACAGGCTGGTGGCCGTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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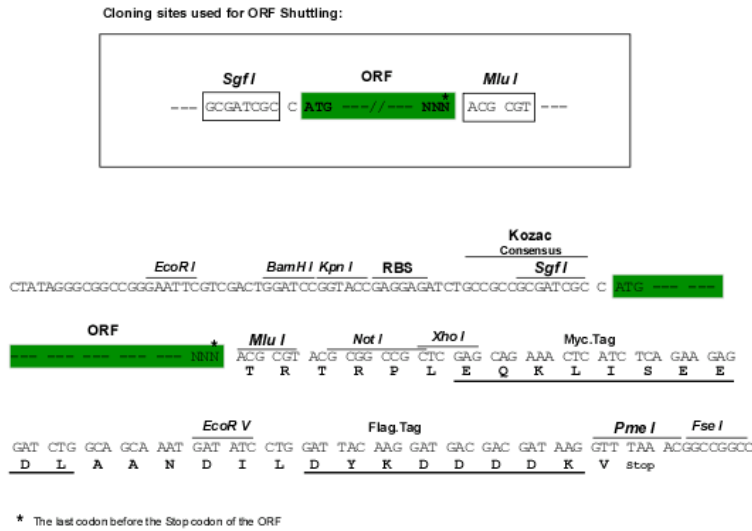
**Protein Sequence:** >RC232453 representing NM\_001271082  
Red=Cloning site Green=Tags(s)

MGKLQSKHAAAARKRRESPEGDSFVASAYASGRKGAAEAERRARDKQELPNGDPKEGPFREDQCPLQVAL  
 PAEKAEGREHPGQLLSADDGERAANREGPRGPGGQRLNIDALQCDVSVVEEDDRQEWFTFLYDFDNCCKVVT  
 REDMSSLMHTIYEVVDASVNHSSGSSKTLRVKLTVSPEPSSKRKEGPPAGQDREPTRCRMEGELAEPRV  
 ADRRLSAHVRRPSTDPQPCSERGPYCVDENTERRNHYLDLAGIENYTSRFGPGSQLCEKRSSAPRTHSGD  
 KARGVGLCRELWSQAGHPQWPGPFPSGLVAV

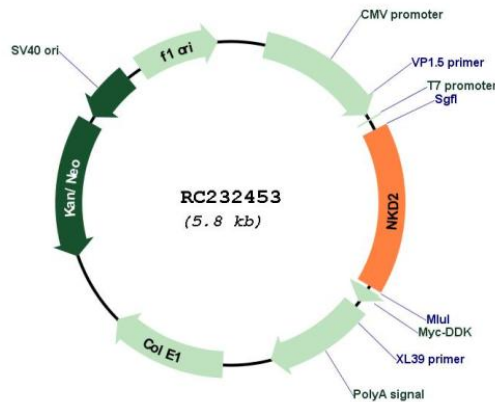
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001271082

**ORF Size:** 933 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_001271082.1</a> , <a href="#">NP_001258011.1</a>
<b>RefSeq Size:</b>	2070 bp
<b>RefSeq ORF:</b>	936 bp
<b>Locus ID:</b>	85409
<b>UniProt ID:</b>	<a href="#">Q969F2</a>
<b>Cytogenetics:</b>	5p15.33
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Wnt signaling pathway
<b>MW:</b>	34.8 kDa
<b>Gene Summary:</b>	This gene encodes a member of a family of proteins that function as negative regulators of Wnt receptor signaling through interaction with Dishevelled family members. The encoded protein participates in the delivery of transforming growth factor alpha-containing vesicles to the cell membrane. Alternatively spliced transcript variants encoding multiple isoforms have been observed for this gene. [provided by RefSeq, Aug 2012]