

Product datasheet for **MR207371**

Nkd2 (NM_028186) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nkd2 (NM_028186) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nkd2
Synonyms:	2210403L10Rik; AW212591; mNkd2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207371 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGAAATTTTCAGTCCAAGCACGCCGACGAGCCTGCAAGAGGAGAGAGAGTCCCGAAGGGGACAGCT
 TCGTGGTGCCTGCGTACGGGAGCGGTGCGCAGAGGAGCGGAAGAAACGGACCGGCGTGCAGGACGGGTG
 GGAACATCGCTCACGGGACAAGCAGGAGCTGCTCAATGGAGACCCTAAGGAGGGGCTTTCTGGGACGAC
 AAGGGTCCCTAGAAGTTGCGCTGCCCCCTGAGAAGTCTGAGGGCCATGAGGGCCAGGGCCAGCTTTCA
 GCACAGATGATGGGGAGAAGGCAGCAAGCCGTGAGGGTCCACTGAGACTTAGCAAGAAGCACTTGAACAT
 TGACGCACTGCAGTGTGACGTCTCAGTGAAGAAGACAACCGCCAAGAATGGACATTACGTTGTATGAC
 TTTGACAACAGTGGGAAAGTCACCAGAGAGGATATGTCCAGCCTGATGCACACCATCTACGAGGTTGTCG
 ATGCCTCTGTCAATCACTCCTCCGGCAGCAGCAAGACCCTTCGAGTGAAGCTAACTGTCAGCCCTGAACC
 CTCAGCAAGAAGGAATGTCCTCTCACTGGCCAAGACCGGAGCCCACTCGTGGCAGAACAGAGATTGAG
 CTCACAGATGAGCCCCGAGCGGCTGACAGAAGGCTATCCGCCTACAGCAGGAAGCCAATGCTGATCCCC
 AGCCCTGCTCTGTGCGAGTGCCTACTGTGTGGATGAGAACACAGAGCGCAGAAACCACTACCTAGACCT
 TGCTGGCATCGAGAACTACACATCTAAGTTTGGTCTGGGTCAACCACTGAGCAGGCCAGGCAAGAACAT
 CATGGCAGGGCCACACATTCCAAGCAGGTCCCGATCACAAGAGTCGGATGCCACGCTATACACCACC
 GCAGGTCTCAAGTCTGGCTGAGCATGTATACAGCTAATGAGCCTGCCACCGGGCCCTGGCTGCACA
 GCCCGGCTCAAGGGGCAGGAGAAGCAGTTCCTCAGGTCTCTAAGGGTCCAGGAAAACCTTTGGGACA
 CCAGGCAGTGGCAAGCCAGGGAAGCTCAGCTATTGCCTGCAGGCTGTGCCACTGCCCCAGGGTGCTC
 AGGATGGCCACCCTTCTCAGCCCCACCACAGCCTCCACCGCAGCCCTATGGTCAACAAGCGGTGCTC
 GCAGAAAAGCCAGAGAAGGCCACTCACCCTAAGGGGCATGGCCAGCCTACCATGGTGGAGCATGAAGTG
 GTACGGGACCTGCCTCCCATGCTGGGGCTGAGGGCTATGTGATGCCTGTGGTCCAGAGGCATGAACACC
 ACCATCACCATGAGCACCACCACCATCACCACCACCACCTTCCACCCATCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207371 protein sequence
 Red=Cloning site Green=Tags(s)

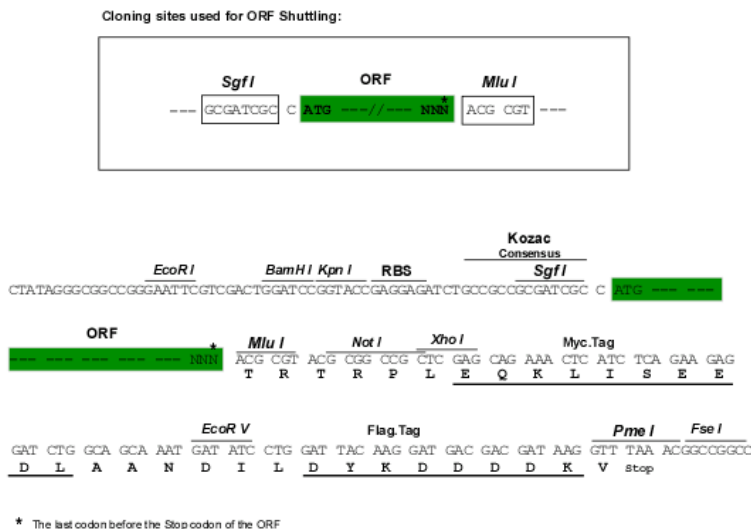
MGKFQSKHAAAACKRRESPEGDSFVVPAYGSGRRGAEETDRRAGSGVEHRSRDKQELLNGDPKEGPFWDD
 KGSLEVALPPEKSEGHEGQQLFSTDDGEKAASREGPLRLSKKHLNIDALQCDVSVEDNRQEWFTLYD
 FDN SGKVTREDMSSLMHTIYEVVDASVNHSSGSSKTLRVKLTVSPEPSSKKECPLTGQDREPTRGRTEIE
 LTDEPRAADRRLSAYSRKPNADPQPCSVRVPCVDENTERRNHYLDLAGIENYTSKFGPGSPPEQARQEH
 HGRATHIPSRSRSEQSDAHAIHRRSQVLAHVIPANEPATRALAAQRLKQEKQFLRSPKGPGLGT
 PGSGKPGKALSYCLQAVPLPQGAQDGHLPQPPPQPPQPYGHKRYRQKAREGHSPLKGGHQPMTMEHEV
 VRDLPPMLGPEGYVMPVVQRHEHHHHHEHHHHHHHHFHP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_028186

ORF Size: 1386 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_028186.1](#), [NM_028186.4](#), [NM_028186.5](#)

RefSeq Size: 3222 bp

RefSeq ORF: 1386 bp

Locus ID: 72293

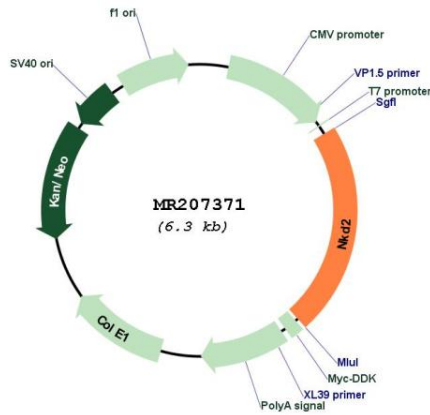
UniProt ID: [Q8VE28](#)

Cytogenetics: 13 C1

MW: 51.4 kDa

Gene Summary: Cell autonomous antagonist of the canonical Wnt signaling pathway. May activate a second Wnt signaling pathway that controls planar cell polarity. Required for processing of TGFA and for targeting of TGFA to the basolateral membrane of polarized epithelial cells (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207371