

Product datasheet for **MG207371**

Nkd2 (NM_028186) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nkd2 (NM_028186) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nkd2
Synonyms:	2210403L10Rik; AW212591; mNkd2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207371 representing NM_028186
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGGAAATTTTCAGTCCAAGCACGCCGACGAGCCTGCAAGAGGAGAGAGAGTCCCGAAGGGGACAGCT
 TCGTGGTGCCTGCGTACGGGAGCGGTGCGCAGAGGAGCGGAAGAAACGGACCGCGTGCGGGACGCGGTG
 GGAACATCGCTCACGGGACAAGCAGGAGCTGCTCAATGGAGACCCTAAGGAGGGGCTTTCTGGGACGAC
 AAGGGTCCCTAGAAGTTGCGCTGCCCCCTGAGAAGTCTGAGGGCCATGAGGGCCAGGGCCAGCTTTCA
 GCACAGATGATGGGGAGAAGGCAGCAAGCCGTGAGGGTCCACTGAGACTTAGCAAGAAGCACTTGAACAT
 TGACGCACTGCAGTGTGACGTCTCAGTGAAGAAGACAACCGCCAAGAATGGACATTACGTTGTATGAC
 TTTGACAACAGTGGGAAAGTCACCAGAGAGGATATGTCCAGCCTGATGCACACCCTACGAGGTTGTCG
 ATGCCTCTGTCAATCACTCCTCCGGCAGCAGCAAGACCCTTCGAGTGAAGCTAACTGTCAGCCCTGAACC
 CTCCAGCAAGAAGGAATGTCCTCTCACTGGCCAAGACCGGGAGCCCACTCGTGGCAGAACAGAGATTGAG
 CTCACAGATGAGCCCCGAGCGGCTGACAGAAGGCTATCCGCCTACAGCAGGAAGCCCAATGCTGATCCCC
 AGCCCTGCTCTGTGCGAGTGCCTACTGTGTGGATGAGAACACAGAGCGCAGAAACCACTACCTAGACCT
 TGCTGGCATCGAGAACTACACATCTAAGTTTGGTCTGGGTCAACCACTGAGCAGGCCAGGCAAGAACAT
 CATGGCAGGGCCACACATTCCAAGCAGGTCCCGATCACAAGAGTGGATGCCACGCTATACACCACC
 GCAGGTCTCAAGTCTGGCTGAGCATGTACACAGCTAATGAGCCTGCCACCGGGCCCTGGCTGCACA
 GCCCGGCTCAAGGGGACAGGAGAAGCAGTTCCTCAGGTCTCCTAAGGGTCCAGGAAAACCTTTGGGACA
 CCAGGCAGTGGCAAGCCAGGGAAGCTCAGCTATTGCCTGCAGGCTGTGCCACTGCCCCAGGGTGCTC
 AGGATGGCCACCACCTTCCTCAGCCCCACCACGCTCCACCGCAGCCCTATGGTCAACAAGCGGTACCG
 GCAGAAAAGCCAGAGAAGGCCACTCACTTAAGGGGCATGGCCAGCCTACCATGGTGGAGCATGAAGTG
 GTACGGGACCTGCCTCCCATGCTGGGGCTGAGGGCTATGTGATGCCTGTGGTCCAGAGGCATGAACACC
 ACCATCACCATGAGCACCACCACCATCACCACCACCACCTTCCACCCATCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207371 representing NM_028186
 Red=Cloning site Green=Tags(s)

MGKFQSKHAAAACKRRESPEGDSFVVPAYGSGRRGAEETDRRAGSGVEHRSRDKQELLNGDPKEGPFWDD
 KGSLEVALPPEKSEGHEGQQLFSTDDGEKAASREGPLRLSKKHLNIDALQCDVSVVEEDNRQEWFTLYD
 FDN SGKVTREDMSSLMHTIYEVVDASVNHSSGSSKTLRVKLTVSPEPSSKKECPLTGQDREPTRGRTEIE
 LTDEPRAADRRLSAYS SRKPNADPQPCSVRVPYCV DENTERRNHYLDLAGIENYTSKFGPGSPPEQARQEH
 HGRATHIPSRSRSQESDAHAHHRRSQVLAEHVIPANEPATRALAAQPRLKGQEKQFLRSPKGPGLGT
 PGSGKPGKALSYCLQAVPLPQGAQDGHLLPQPPQPPQPYGHKRYRQKAREGHSPLKGGHQPMTMEHEV
 VRDLPPMLGPEGYVMPVVRHEHHHHHEHHHHHHHHFHP

TRTRPLE - GFP Tag - V

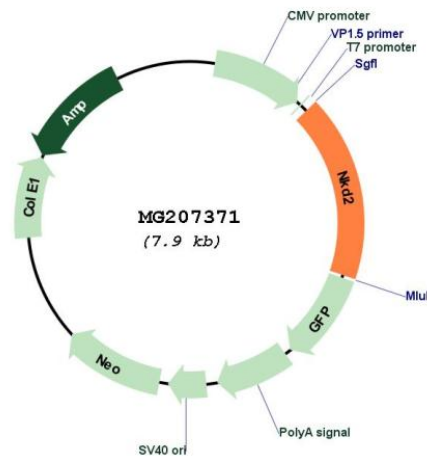
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_028186

ORF Size: 1383 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:	<ol style="list-style-type: none">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:	<u>NM_028186.2</u> , <u>NP_082462.2</u>
RefSeq Size:	2399 bp
RefSeq ORF:	1386 bp
Locus ID:	72293
UniProt ID:	<u>Q8VE28</u>
Cytogenetics:	13 C1
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]