

Product datasheet for **RG214631**

NKD2 (NM_033120) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NKD2 (NM_033120) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	NKD2
Synonyms:	Naked2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG214631 representing NM_033120
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGAAACTGCAGTCGAAGCACGCCGCCGCCCGCCGCAAGCGGAGAGAGAGCCCGGAAGGGGACAGCT
 TCGTGGCGTCCGCGTACGCGAGCGGCCGCAAGGCGCGGAGGAAGCGGAGCGGCGCGCGGGACAAGCA
 GGAGCTGCCCAATGGGGACCCCAAGGAGGGCCTTTCCGGGAGGACCAGTGTCCCTACAGGTGGCACTC
 CCCGCTGAGAAAGCTGAGGGCCGCGAGCACCCGGGACAACCTCTCAGCGCAGATGACGGAGAGAGGGCAG
 CAAACCGCGAGGGCCCGGAGGACCGGGCGGGCAGCGCTCAACATTGACGCACTCCAGTGCATGTCTC
 GGTGGAGGAGGACGACGCCAGGAGTGGACGTTACGCTCTATGACTTTGACAACGCGGGAAGGTCACC
 AGGGAGGACATGTCCAGCCTCATGCACACCATCTATGAGGTCGTGGATGCCTCGGTCAACCACTCCTCGG
 GCAGCAGCAAGACCTCCGTGTGAAGCTAACCGTCAGCCCTGAGCCCTCCAGCAAGAGGAAGGAGGGTCC
 TCCTGCTGGCCAGGACCGGGAGCCACCGTTGCAGGATGGAGGGTGAAGTGGCAGAGGAGCCAAGGGT
 GCTGACAGGAGGTTGCTGCACACGTGAGGAGGCCAGTACTGACCCCAAGCCCTGCTCGGAGCGGGGGC
 CCTACTGCGTGGACGAGAACACGGAGCGCAGAAACCACTACCTGGACCTCGCCGGGATTGAGAACTACAC
 GTCCAGATTGCGCCCTGGGTCCCCTCCTGTGCAAGCAAAGCAGGAGCCCCAGGGCAGGGCCTCGCACCTC
 CAGGCCCGGTCCCCTCCAGGAGCCAGATACACATGCCGTACACCACCGCAGGTACAGGTGCTGGTGG
 AACACGTCGTGCCAGCCTCGGAGCCTGCTGCCCGGGCCCTGGACACGACGCCCGGGCCGAAGGGGCCGA
 GAAGCAGTTCCCTAAGTCCCCAAGGGCTCCGGGAAGCCGCTGGGGTCCAGCCAGCAGCAAGTCCGGG
 AAAGCCTTCAGCTACTACCTGCCGGCCGCTCCTGCCGCCAGGCCCTCAGGACGGCCACCACCTCCCGC
 AGCCCCACCGCCACCCTACGGCCACAAGCGGTACCGCCAAAAGGGCAGGGAGGGCCACTCGCCACTCAA
 GGCCCCACACGCTCAGCCTGCCACAGTGGAGCAGGAGGTTGGTGGGGACCTGCCGCCACCGCCAGCAGGA
 GAGGGCTACGCGGTGCCAGTGATCCAGCGGCACGAGCACCACCACCACGAGCACCACCACCACCACC
 ACCACCACCCTCCACCCGTTCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG214631 representing NM_033120
 Red=Cloning site Green=Tags(s)

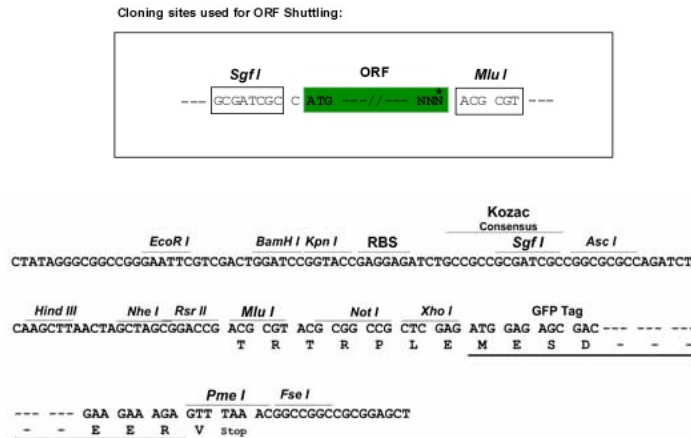
MGKLSKHAHAARKRRESPEGDSFVASAYASGRKGAAEAERRARDKQELPNGDPKEGPFREDQCPLQVAL
 PAEKAEGREHPGQLL SADDGERAANREGPRGPGGQRLNIDALQCDVSVEEDDRQEWFTFL YDFDNCVKV
 REDMSSLMHTIYEVVDASVNHSSGSSKTLRVKLTVSPEPSSKRKEGPPAGQDREPTRCRMEGELAEPRV
 ADRRLSAHVRRPSTDPQPCSERGPYCVDENTERRNHYLDLAGIENYTSRFGPGSPPVQAKQEPQGRASHL
 QARSRSQEPDTHAVHRRSQVLVEHVVPASEPAARALDTQPRPKGPEKQFLKSPKSGKPPGVPASSKSG
 KAFSYLPAVLPQAPQDGHLLPQPPPPYGHKRYRQKREGHSPLKAPHAQPATVEHEVVRDLPPPTPAG
 EGYAVPVIQRHEHHHHHEHHHHHHHHFHPS

TRTRPLE – GFP Tag – V

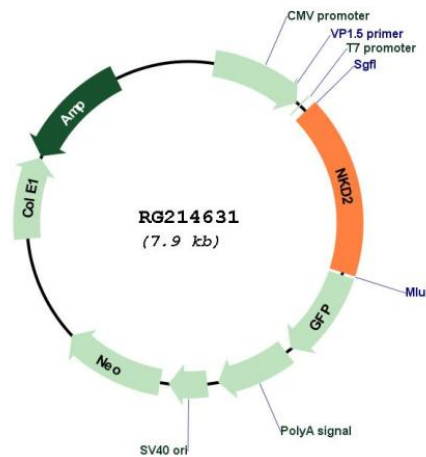
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_033120

ORF Size: 1353 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:	NM_033120.4
RefSeq Size:	1798 bp
RefSeq ORF:	1356 bp
Locus ID:	85409
UniProt ID:	Q969F2
Cytogenetics:	5p15.33
Protein Families:	Druggable Genome
Protein Pathways:	Wnt signaling pathway
Gene Summary:	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]