

Product datasheet for **RG232453**

NKD2 (NM_001271082) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NKD2 (NM_001271082) 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)
ORF Nucleotide Sequence:	>RG232453 representing NM_001271082 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGAAACTGCAGTCGAAGCACGCCGCCGCCGCAAGCGGAGAGAGAGCCCGAAGGGGACAGCT
TCGTGGCGTCCGCGTACGCGAGCGGCCGCAAAGGCGCGGAGGAAGCGGAGCGCGCGCGGGACAAGCA
GGAGCTGCCCAATGGGGACCCAAAGGAGGGCCTTCCGGGAGGACCAGTGTCCCTACAGGTGGCACTC
CCCGCTGAGAAAGCTGAGGGCCGCGAGCACCCGGGACAACCTCTCAGCGCAGATGACGGAGAGGGGCAG
CAAACCGGAGGGCCCGGAGGACCGGGCGGGCAGCGCCTCAACATTGACGCACTCCAGTGCGATGTCTC
GGTGGAGGAGGACGACCGCCAGGAGTGGACGTTACGCTCTATGACTTTGACAACCTGCGGGAAGGTCACC
AGGGAGGACATGTCCAGCCTCATGCACACCATCTATGAGGTCGTGGATGCCTCGGTCAACCACTCCTCGG
GCAGCAGCAAGACCCCTCCGTGTGAAGCTAACCGTCAGCCCTGAGCCCTCAGCAAGAGGAAGGAGGGTCC
TCCTGCTGGCCAGGACCGGGAGCCACCCGTTGCAGGATGGAGGGTGAACGGCAGAGGAGCCAAGGGTG
GCTGACAGGAGGTTGTCTGCACACGTGAGGAGGCCAGTACTGACCCCGAGCCCTGCTCGGAGCGGGGGC
CCTACTGCGTGGACGAGAACACGGAGCGCAGAAACCACTACCTGGACCTCGCCGGATTGAGAATACAC
GTCCAGATTCGGCCCTGGTCTCAGCTGTGCGAGAAGAGAAGCTCCGCTCCAGGACACACAGTGGGGAC
AAGGCTAGAGGAGTCGGCCTTTCAGGGAGCTGTGGAGCCAGGCAGGTACCCACAGTGGCCAGGCCCTT
TCCCTTACAGGGCTGGTGGCCGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG232453 representing NM_001271082
Red=Cloning site Green=Tags(s)

MGKLQSKHAAAARKRRESPEGDSFVASAYASGRKGAAEAERRARDKQELPNGDPKEGPFREDQCPLQVAL
 PAEKAEGREHPGQLLSADDGERAANREGPRGGQRLNIDALQCDVSVEEDDRQEWFTFLYDFDNC GKVT
 REDMSSLMHTIYEVVDASVNHSSGSSKTLRVKLVTSPEPSSKRKEGPPAGQDREPTRCRMEGELAEPRV
 ADRRLSAHVRRPSTDPQPCSERGPYCVDENTERRNHYLDLAGIENYTSRFGPGSQLCEKRSSAPRTHSGD
 KARGVGLCRELWSQAGHPQWPGPFPSGLVAV

TRTRPLE - GFP Tag - V

Restriction Sites:

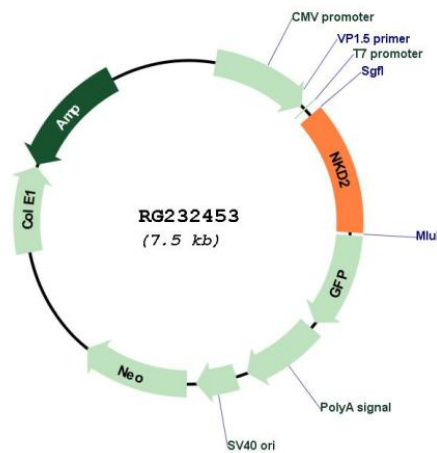
Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001271082

ORF Size: 933 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_001271082.1 , NP_001258011.1
RefSeq Size:	2070 bp
RefSeq ORF:	936 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]