

Product datasheet for MR220859

Nwd2 (NM_177006) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nwd2 (NM_177006) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nwd2
Synonyms:	3110047P20Rik; B830017A01Rik; Hn1-ps2; mKIAA1239
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR220859 representing NM_177006 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTGGCCGGCCGGTGC GGCCACCAAGCTGCCCTGTCCCGGGACTCCGCGCTCCGGCGGGCGGCTTCT
CTGGTAATCTCACCGCCCTTCTTCTCACCTGGTACCCGCGGTTCGACGCGTCCGGGTCTTCATCAGCGC
CAACCCGAAGATACAGGAGCGGAACGGCAGGCACTAAGAGAACTGTGTATCCGAACTGAGAGAATTC
TGCAGAGAAAATATGGGTTGGAATTTCAAGTCAATGATCTGTACTGGGAATTGAGGAAGATGAATGGG
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CTTTGTTGGCCTTTAGGTGAAAAATATGGGAACATTCGAATCCCTGGGGAAGTAGAAGCTTCAGAGTTT
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GACCTTCGTGACTTGTTTATAAACCTGTTGAATGAGTCTTCACTGCAGAGACCTCTGGTAATCATATTGG
 ATGCCCTAGAGCAGCTCTCGGAGGCCGACGAAGCTAGGAAGCTCTGGTGGCTGCCCGCTCATCTTCCCCG
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CCGTGAGTGACTCTTCTGAGTCCAACGAGGCAACACCCTCCAAGAAACACAATTCTTGTTATGACCGAGT
GTGTGCTGCCCTAGAATCCAGGAGCCACAGCTACACTCCAGATAAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR220859 representing NM_177006
Red=Cloning site Green=Tags(s)

MWPAGAGTKLPCPRDSALRRAAFSGNLTALPSHLVPAGRSVRVFI SANPEDTGAERQALRETVYPKLREF
CRENYGLEFQVIDLYWGIEEEDWDSPELQKMRMKLLECLKTSAGPCFVGLLGEKYGNIRIPGEVEASEF
EMILDAAVEAKLETKLEDWYCRDENSVPAAAYLRPRLEVPRSNKNSTQPSASSEQERPWEISDEIKTI
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ITGTDPRIVRDPEAQEKLIKLRDEFIPTIVASSNLRVYTSVTHCDMKLGYSQEIENHYIEGLGKQFYEDM
IDI IQATVQQNFDTETDTLYDEILQHSSLCKTYASFYEYKCESLNILHKYILPSKTGHINPLVYVGGPCT
GKTL LLAEVAKKAYGWLHEDTGPDSDPVVIVRFLGTTDMSIDLRTLLLSVCEQLAVNYRCLVQSFPKKIH
DLRDLFINLLNESSLQRPLVIIIDALEQLSEADEARKLWLP AHLPRFVRIILSTLPNKHGILQKLRCLI
HEEDNYIELIPRDRKMCSQVLKHQLLRVKRKTSGQQIYVNNAFSKCTLP MFVNLTFREVRHWRSHKDVD
ESSLCVTVHESIEQLFWSLEKCKGQKLVSRALGYITMAKMGLSEMELEDV LALDNSVMNELNENTRPSNP
LRVPYLYIARLKEGLNGYLIERHVKNVTLVWANRHLQLIAQKLYLQEDSNLREMHTILADYFLGVWSSG
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SAELQQRLLPVVSSLPKLRHLLLECDKDGPKYCSIVPLHSSMDVTYSPERLPLASSHLHVTEILPTCNPS
TVLTALENGSISTWDVETRQLLRQITTAQSVILGMKLSSEKYL VVATTNNTLLIYDNVNSCLLSEVEIK
GTKHGGSTYINGFTLSVNHALAWLEASKDVTVIDLLYGWPLYQFHCWYEVTCVQCSDGVYAFCCGYLN
NTTIFHLGSGEKICTVTSEFSGGFVKFLLILDTAQEMVMVDSEGLSVWNTEIDISNPQLTEDFDCR KEDS
EVSIELSEDQSAI LICKALSIELLDTGMWKVAEKFRARHNERFVSAVLSKNGDCIATMENTPAVFFWR
RDTGQCLASLQESSGTIVKLVKSSHNM LLSLSTSGVL SIWDIDIITAMSNIDKTGKPIQSLVLPARGEI
IYSLDGSDCVHKWNFSSGFIEAVFKHEGIVEHCVL TSTGDLMVTSDDKSSQYVWHTSSGENLFRINGQRI
SQQLLITHNDQFVVS LCEENASRVWRLATGHRVCNILTTLQNAFITSANTFVVGMTKSKVLAVSLWTGSIT
KKFCCEGDGITIVNFKLIPDCPDVIVFITS AETVNLWSLTDEVICRRVQLPSNFLKNLEDFEISPNGKLG I
ISRGDENINVLDLHSGKLRVVHASGVIWRQRLSRDGRYL VYICFRNGEEEEENDAISSLIVMRLADGKNI
GACSLYKPTFLALSQRHLNII VGFDDGSI GIYTVVDRVDAALKIKIATSNSRQIFNNATQTSRPKSNSY
SFKVSVDCLWRESTEVFARDSPITVSDSSESNEATPSKKNHNSCYDRVCAALESRSHSYTPDN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9104_e12.zip

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_177006

ORF Size: 5226 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_177006.3](#), [NP_795980.2](#)

RefSeq Size: 8539 bp

RefSeq ORF: 5229 bp

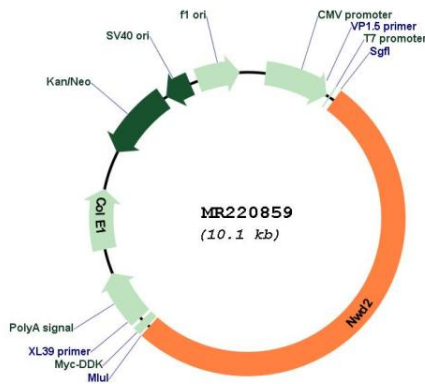
Locus ID: 319807

UniProt ID: [Q6P5U7](#)

Cytogenetics: 5 C3.1

MW: 197.4 kDa

Product images:



Circular map for MR220859