

Product datasheet for MR203717

Nit2 (NM_023175) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nit2 (NM_023175) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Nit2
Synonyms: 1190017B19Rik; D16Ert502e
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR203717 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTCTACTTTCCGCTGGCCCTCATAACAGCTTCAAGTTTCTTCCATTAATCAGATAACCTTACCCGGG
CTTGTAGCCTAGTGCAGGAGGCAGCAAAGCAAGGTGCCAACATAGTTTCTCTGCCTGAGTGCTTCAATTC
TCCATATGGAACAACCTACTTTCTGACTATGCAGAGAAGATTCCTGGAGAGTCCACACAAAAGCTTTCT
GAAGTAGCAAAGGAGAGCAGCATATATCTCATTGGAGGCTCCATCCCTGAAGAGGATGCTGGAAACTGT
ATAATACCTGCTCTGTGTTGGCCTGATGGAAGTTTACTGGTAAAGCACAGGAAGATCCATCTGTTTGA
CATTGATGTTCTGGGAAAATTACGTTTCAAGAATCTAAAACATTGAGCCCTGGTGATAGTTTCTCCACA
TTTGATACGCCTTACTGCAAAGTGGCCTGGGCATCTGCTATGATATGCGCTTCGCGGAGCTTGACAAA
TCTATGCACAAAGAGGCTGCCAGCTCTTGGTGTATCCTGGAGCTTCAATCTGACCACAGGACCAGCCCA
CTGGGAGCTGTTGAGCAGCCCGGCTGTTGATAATCAGGTGTATGTGGCTACAGCCTCTCCTGCTCGG
GATGACAAAGCCTCGTATGTGGCCTGGGACACAGCACTGTTGTGGATCCTTGGGGCAGGTCTAAACCA
AAGCTGGCAGGAGGAAACAATCCTGTAAGTACTCAGACATAGACCTGAAGAAGCTGGCTGAAATTCGGCAGCA
AATCCCATTTTAAAACAGAAACGAGCAGACCTCTATACAGTGGAGTCAAAGAAGCCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203717 protein sequence
 Red=Cloning site Green=Tags(s)

MSTFRLALIQLQVSSIKSDNLTRACSLVREAAKQGANIVSLPECFNSPYGTTYFPDYAEKIPGESTQKLS
 EVAKESSIYLIGGSIPEEDAGKLYNTCSVFGPDGSLLVKHKRIHLFDIDVPGKITFQESKTLSPGDSFST
 FDTPTYCKVGLGICYDMRFAELAQIYAQRGCQLLVYPGAFNLTTGPAHWELLQRARAVDNQVYVATASPAR
 DDKASYVAWGHSTVVDPWGQVLTKAGTEETILYSDIDLKLAELRQQIPIILKQKRADLYTVESKKP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_023175

ORF Size: 831 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_023175.1](#), [NP_075664.1](#)

RefSeq Size: 1292 bp

RefSeq ORF: 831 bp

Locus ID: 52633

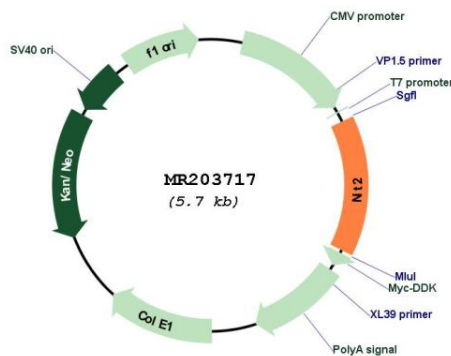
UniProt ID: [Q9JHW2](#)

Cytogenetics: 16 34.22 cM

MW: 30.5 kDa

Gene Summary: Has a omega-amidase activity. The role of omega-amidase is to remove potentially toxic intermediates by converting 2-oxoglutaramate and 2-oxosuccinamate to biologically useful 2-oxoglutarate and oxaloacetate, respectively.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203717