

Product datasheet for **MG203717**

Nit2 (NM_023175) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nit2 (NM_023175) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Nit2
Synonyms: 1190017B19Rik; D16Ertd502e
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG203717 representing NM_023175
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTCTACTTTCCGCTGGCCCTCATAAGCTTCAAGTTTCTTCCATTAATCAGATAACCTTACCCGGG
 CTTGTAGCCTAGTGCAGGAGGCAGCAAAGCAAGGTGCCAACATAGTTTCTCTGCCTGAGTGCTTCAATTC
 TCCATATGGAACAACCTACTTTCTGACTATGCAGAGAAGATTCCTGGAGAGTCCACACAAAAGCTTTCT
 GAAGTAGCAAAGGAGAGCAGCATATATCTCATTGGAGGCTCCATCCCTGAAGAGGATGCTGGAAACTGT
 ATAATACCTGCTCTGTGTTGGCCTGATGGAAGTTTACTGGTAAAGCACAGGAAGATCCATCTGTTTGA
 CATTGATGTTCTGGGAAAATTACGTTTCAAGAACTCTAAAACATTGAGCCCTGGTGATAGTTTCTCCACA
 TTTGATACGCCTTACTGCAAAGTGGCCTGGGCATCTGCTATGATATGCGCTTCGCGGAGCTTGACAAA
 TCTATGCACAAAGAGGCTGCCAGCTCTTGGTGTATCCTGGAGCTTCAATCTGACCACAGGACCAGCCCA
 CTGGGAGCTGTTTACGCGAGCCCGGCTGTTGATAATCAGGTGTATGTGGCTACAGCCTCTCCTGCTCGG
 GATGACAAAGCCTCGTATGTGGCCTGGGACACAGCACTGTTGTGGATCCTTGGGGCAGGTCCTAACCA
 AAGCTGGCAGGAGGAAACAATCCTGTACTCAGACATAGACCTGAAGAAGCTGGCTGAAATTCGGCAGCA
 AATCCCCATTTAAAACAGAAACGAGCAGACCTCTATACAGTGGAGTCAAAGAAGCCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG203717 representing NM_023175
 Red=Cloning site Green=Tags(s)

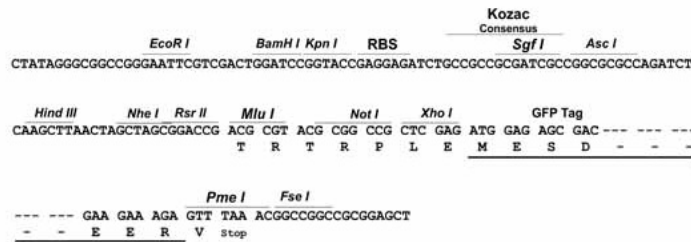
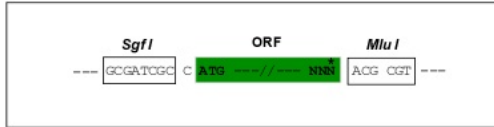
MSTFRLALIQVSSIKSDNLTRACSLVREAAKQGANIVSLPECFNSPYGTTYFPDYAEKIPGESTQKLS
 EVAKESSIIYLIGGSIPEEDAGKLYNTCSVFGPDGSLLVKHRKIHLFDIDVPGKITFQESKTLSPGDSFST
 FDTPTYCKVGLGICYDMRFAELAQIYAQRGCQLLVYPGAFNLTTGPAHWELLQRARAVDNQVYVATASPAR
 DDKASYVAWGHSTVVDPWGQVLTKAGTEETILYSDIDLKLAELRQQIPIILKQKRADLYTVESKKP

TRTRPLE - GFP Tag - V

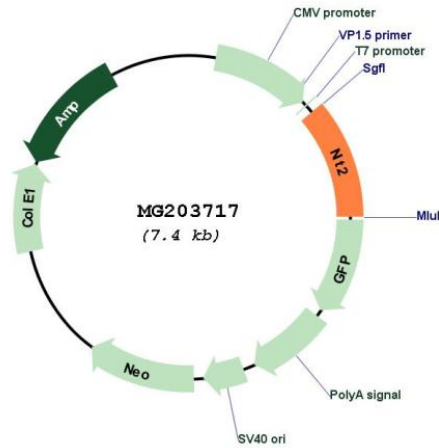
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_023175
ORF Size: 828 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_023175.1 , NP_075664.1
RefSeq Size:	1292 bp
RefSeq ORF:	831 bp
Locus ID:	52633
UniProt ID:	Q9JHW2
Cytogenetics:	16 34.22 cM
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]