

Product datasheet for MR203973

Nat2 (NM_001168577) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nat2 (NM_001168577) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nat2
Synonyms:	AV377607
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203973 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGACATCGAAGCGTACTTTGAAAGAATTGGTTATCAGAGCACCAGGAGCAAACCTGGACTTGAAAACAT
TAACCGATATCCTTCAGCACCAGATACGGGCTATCCCTTTGAGAACTTGAACATCCATTGTGGGAATC
CATGGAAGTGAAGTTAGAACCCATCTTTGATCAAATTGTGAGGAAGAAGCGGGTGGATGGTGTCTCCAG
GTTAATCATCTGCTGTACTGGGCTCTGACCAAACCTGGGCTTTGAAACCACAATGCTGGGAGGATATGTCT
TTAACTCCAGCCAATAAGTACAGCAGTGGCATGATTCACCTTCTAGTTCAGGTCACCATCAGTGGAAA
GGACTACATTGTTGATGCTGGGTTTGGACGTTCCCTACCAGATGTGGGAGCCTCTGGAATTAACATCTGGA
AAGGATCAGCCTCAGGTGCCTGCCATCTCCGTTTGACAGAGGAGAATGGAACCTGGTACTTGGACCAAA
TCAGAAGAGAGCAGTATGTTCCAAACCAAGAATTTATTAACCTCAGACCTCCTTGAAAAGAACAAATACCG
AAAAATCTACTCCTTTACTCTTGAGCCCGAACTATTGAAGATTTTGGTCCATGAATACCTACCTTCAG
ACATCACCAGCGTCTGTGTTTACTAGCAAATCATTTTGTCCCTGCAGACCCAGAAGGGGTTTATTGTT
TGGTTGGCTCCACCCTCACTTATAGAAGATTTAGTTACAAGGACAACGTGCATCTGTAGAGTTTAAAGAG
TCTGACTGAGGAAGAAAATAGAAGATGTACTGAGAACTATATTTGGGGTTTCTTTAGAGAGAAAACCTGTG
CCTAAACATGGTATCGATTTTTTACCATT

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203973 protein sequence
Red=Cloning site Green=Tags(s)

MDIEAYFERIGYQSTRSKLDLKTLDILQHQIRAI PFENLNHCGESMELSLEAIFDQIVRKKRGGWCLQ
 VNHLLYWALTKLGFETTMLGGYVFNT PANKYSSGMIHLLVQVTISGKDYIVDAGFGRSYQMWEPLELTS
 KDQPQVPAIFRLTEENGTWYLDQIRREQYVPNQEFINSDLLEKNKYRKIYSFTLEPRTIEDFESMNTYLQ
 TSPASVFTSKSFCSLQTPEGVHCLV GSTLYRFRFSYKDNVDLVEFKSLTEEEIEDVLRITFGVSLERKLV
 PKHGDRFFTI

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_001168577

ORF Size: 873 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_001168577.1](#), [NP_001162049.1](#)

RefSeq Size: 1375 bp

RefSeq ORF: 873 bp

Locus ID: 17961

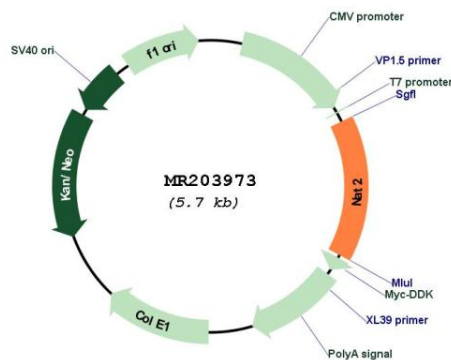
UniProt ID: [P50295](#)

Cytogenetics: 8 33.38 cM

MW: 33.7 kDa

Gene Summary: Participates in the detoxification of a plethora of hydrazine and arylamine drugs. 2-aminofluorene and p-aminobenzoic acid (PABA) are preferred substrates for NAT-2. Less activity with anisidine and barely detectable with SMZ.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203973