

Product datasheet for **MR220038**

Nat1 (NM_008673) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nat1 (NM_008673) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Nat1
Synonyms: Nat-1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR220038 representing NM_008673
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACATCGAAGCATACTTTGAAAGGATTGGTTACAAGAACTCAGTGAATAAATTGGACTTAGCCACAT
TAACTGAAGTTCTTCAGCACCAGATGCGAGCAGTTCCTTTGAGAATCTAACATGCATTGTGGAGAAGC
CATGCATCTGGATTTACAGGACATTTTTGACCACATAGTAAGGAAGAAGAGAGGTGGATGGTGTCTCCAG
GTTAATCATCTGCTGTACTGGGCTCTGACCAAAATGGGCTTTGAAACCACAATGTTGGGAGGATATGTTT
ACATAACTCCAGTCAGCAAATATAGCAGTGAAATGGTCCACCTTCTAGTACAGGTGACCATCAGTGACAG
GAAGTACATTGTGGATTCGCCTATGGAGGCTCCTACCAGATGTGGGAGCCTCTGGAATTAACATCTGGG
AAGGATCAGCCTCAGGTGCCTGCCATCTTCCTTTTGACAGAGGAGAATGGAACCTGGTACTTGGACCAAA
TCAGAAGAGAGCAGTATGTTCCAAATGAAGAATTTGTTAACTCAGACCTCCTTGAAGAAGAAATATCG
AAAAATCTACTCCTTTACTCTTGAGCCCGAGTTATCGAGGATTTGAATATGTGAATAGCTATCTTCAG
ACATCGCCAGCATCTGTGTTTGAAGCACATCGTTCGTTCTGTTCCCTTGACAGCCTCGGAAGGGGTTCACTGTT
TAGTGGGCTCCACCTTTACAAGTAGGAGATTCAGCTATAAGGACGATGTAGATCTGGTTGAGTTAAATA
TGTGAATGAGGAAGAAAATAGAAGATGTACTGAAAACCGCATTGGCATTCTTTGGAGAGAAAAGTTGTG
CCCAAACATGGTGAAC TAGTTTTACTATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR220038 representing NM_008673
 Red=Cloning site Green=Tags(s)

MDIEAYFERIGYKNSVNKLDLATL TEVLQHQMRVAVPFENLNMHCGEAMHLDLQDIFDHIVRKKRGGWCLQ
 VNHLLYWALTKMGFETTMLGGYVYITPVSKYSSEMVHLLVQVTISDRKIYVDSAYGGSYQMWEPLELTSG
 KDQPQVPAIFLLTEENGTWYLDQIRREQYVPNEEFVNSDLLEKNKYRKIYSFTLEPRVIEDFEYVNSYLQ
 TSPASVVFVSTSFCSLQTSEGVHCLVGSTFTSRRF SYKDDVDLVEFKYVNEEEIEDVLKTAFGISLERKFV
 PKHGELVFII

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9023_h01.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_008673

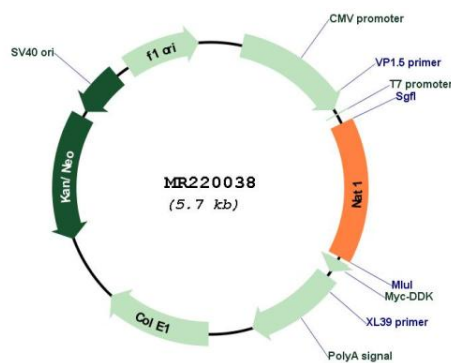
ORF Size: 870 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_008673.2
RefSeq Size:	1347 bp
RefSeq ORF:	873 bp
Locus ID:	17960
UniProt ID:	P50294
Cytogenetics:	8 33.38 cM
MW:	34.2 kDa
Gene Summary:	Participates in the detoxification of a plethora of hydrazine and arylamine drugs. Isoniazid, 2-aminofluorene and anisidine are preferred substrates for NAT-1. No activity with p-aminobenzoic acid (PABA) nor SMZ.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR220038