

Product datasheet for **MG217509**

Nat2 (NM_010874) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nat2 (NM_010874) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Nat2
Synonyms: AV377607
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG217509 representing NM_010874
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGACATCGAAGCGTACTTTGAAAGAATTGGTTATCAGAGCACCAGGAGCAAACCTGGACTTGAAAACAT
 TAACCGAAATCCTTCAGCACCAGATACGGGCTATCCCTTTGAGAATTTGAACATCCATTGTGGGAATC
 CATGGAAGTGAAGCCATCTTTGATCAAATTGTGAGGAAGAAGCGGGTGGATGGTGTCTCCAG
 GTTAATCATCTGCTGACTGGGCTCTGACCAAACCTGGGCTTTGAAACCACAATGCTGGGAGGATATGTCT
 TTAACACTCCAGCCAATAAGTACAGCAGTGGCATGATTCACCTTCTAGTTCAGGTCACCATCAGTGGAAA
 GGACTACATTGTTGATGCTGGGTTTGGACGTTCCCTACCAGATGTGGGAGCCTCTGGAATTAACATCTGGA
 AAGGATCAGCCTCAGGTGCCTGCCATCTCCGTTTGACAGAGGAGAATGGAACCTGGTACTTGGACCAAA
 TCAGAAGAGAGCAGTATGTTCCAAACCAAGAATTTATTAACACTCAGATCTCCTTGAAGAACAACATACCG
 AAAAATCTATTCCTTTACTCTTGAGCCCGAACTATTGAAGATTTTGGTCCATGAATACCTACCTTCAG
 ACATCACCAGCGTCTGTGTTTACTAGCAAATCATTTTGTCCCTGCAGACCCAGAAGGAGTTTATTGTT
 TGGTTGGCTCCACCCTCACTTATAGAAGATTTAGTTACAAGGACAACGTGCATCTGTAGAGTTTAAAGAG
 TCTGACTGAGGAAGAAAATAGAAGATGACTGAGAACTATATTTGGGGTTCTTTAGAGAGAAAACCTGTG
 CCTAAACATGGTATCGATTTTTTACCATT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG217509 representing NM_010874
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MDIEAYFERIGYQSTRSKLDLKLTEILQHQIRAI PFENLNHCGESMELSLEAIFDQIVRKKRGGWCLQ
 VNHLLYWALTKLGFETTMLGGYVFNT PANKYSSGMIHLLVQVTISGKDYIVDAGFGRSYQMWEPLELTSG
 KDQPQVPAIFRLTEENGTWYLDQIRREQYV PNQEFINSDLLEKNKYRKIYSFTLEPRTIEDFESMNTYLQ
 TSPASVFTSKSFCSLQTPEGVHCLV GSTLT YRRFSYKDNVDLVEFKSLTEEEIEDVLRITFGVSLERKLV
 PKHGDRFFTI

TRTRPLE - GFP Tag - V

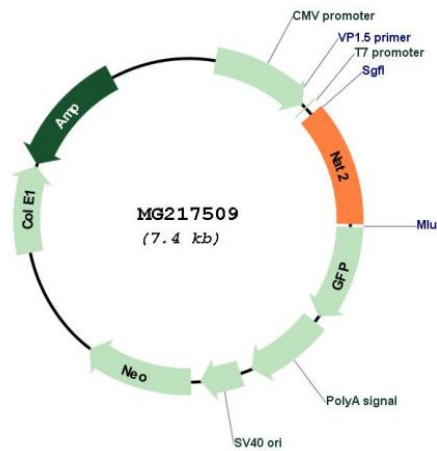
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_010874

ORF Size: 870 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_010874.3 , NP_035004.1
RefSeq Size:	1473 bp
RefSeq ORF:	873 bp
Locus ID:	17961
UniProt ID:	P50295
Cytogenetics:	8 33.38 cM
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]