

Product datasheet for **MG204478**

Nat6 (NM_019750) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nat6 (NM_019750) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Nat6
Synonyms:	AI225910; Fus2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204478 representing NM_019750 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCTGATCCTGAGTACCAGCCCAGCAAAGCTGACTCTAGATCCTGCACGACAGCCAGAGTTGACCC
TGAGATTCAACCTGTCCAAGCTAACCTGGATCCTGCACGCCAGCCAGAGCTGTCGCTGAGTCCTAGGCT
AGCTGAGCTGACCCTGGATCCCACATGCCACCCAGAGATGAGCCTCAGTCCTGGCCAGCTGAGCTTACC
CTGGATCCTCAACACCAGGCAAAGGAGCTCCAGTTCCAAGCTGCCTGAATTAATCCTGGAGCCTGTAC
ACTGCCGACCCGAGCTCATGAGTGCCTGTGCTGATCTCATCAATGACCAGTGGCCCCGAGTCGTGCCTC
CCGTCTCCACTCCCTGGGCCAGTCTCAGATGCCTTCCCCCTCTGCCTGATGCTGCTGAGCCCCAACCC
ACACCTGGAGCAGCCCCTGTTGTGGTGGGCCATGCCCGCTTATCACGGGTACTAGACCAACCCACAGCC
TCTTAGTAGAGACAGTGGTGGTAGCCCGGCTCTGAGGGGCCGTGGCTTTGGTCGCCGCTCATGGAAGG
CTTGAGGCTTTGCCAGAGCCCGGGTTTCCGACGGCTACACCTCACCCTCATGACCAGCTGTACTTC
TATGCCCATCTGGGTACCACTGGGTGAGCCTGTGCAGGTTTGGCTTCACCAACCGTCGACTGTCCA
CCACTGTCCTACGTGCCTTCTCTAAGCCACCCTGCCCCAGCCACCCTGCAAGGAGCCTATCCTAGCTGC
CCAAGCTGTCCAAGGAGCTCCAAGGGACCCCATTCGCCACCCTCCTCCCCTACCCAGTCTCTGACC
GCCTCACCGCCTCTTACCCGAGCCCTTCTCAAAGCCACTAGAGACATGCTATCGAGATCTGAAGG
GGTGCCCTATATTCTGGATGAAAAAGACATC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA


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Protein Sequence: >MG204478 representing NM_019750
 Red=Cloning site Green=Tags(s)

MELILSTSPAKLTLDPARQPELTLRFNLSKLTLDPARQPELSLSPRLAELTLDPTCHPEMSLSPGPAELT
 LDPQHAKELPVPKLPPELILEPVHCRPELMSACADLINDQWPRSRASRLHSLGQSSDAFPLCLMLLSPQP
 TPGAAPVVVGHARLSRVLDPHSLLVETVVVARPLRGRGFGRRLEMELEAFARARGFRRLHLLTTHDQLYF
 YAHLLGYQLGEPVQGLAFTNRRLLSTTVLRAFSKPPCPQPPCKEPIAAQAVPRSSKGPPLPPPPPLPQSLT
 ASPPPSPEPLPQSPLETCTYRDLKGCPFIWMEKDI

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_019750

ORF Size: 942 bp

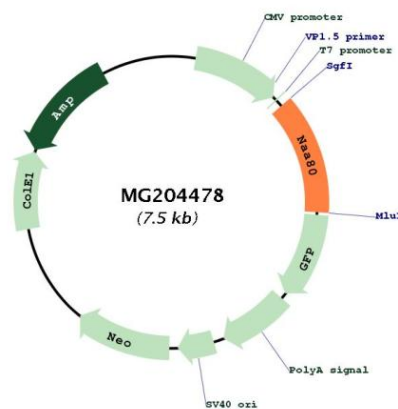
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_019750.3</u>
RefSeq Size:	2045 bp
RefSeq ORF:	945 bp
Locus ID:	56441
UniProt ID:	<u>Q9R123</u>
Cytogenetics:	9 58.18 cM
Gene Summary:	N-alpha-acetyltransferase that specifically mediates the acetylation of the acidic amino terminus of processed forms of beta- and gamma-actin (ACTB and ACTG, respectively). N-terminal acetylation of processed beta- and gamma-actin regulates actin filament depolymerization and elongation. In vivo, preferentially displays N-terminal acetyltransferase activity towards acid N-terminal sequences starting with Asp-Asp-Asp and Glu-Glu-Glu. In vitro, shows high activity towards Met-Asp-Glu-Leu and Met-Asp-Asp-Asp. May act as a tumor suppressor.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG204478