

Product datasheet for **MR204478**

Nat6 (NM_019750) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Nat6 (NM_019750) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Nat6
Synonyms:	A1225910; Fus2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204478 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGCTGATCCTGAGTACCAGCCCAGCAAAGCTGACTCTAGATCCTGCACGACAGCCAGAGTTGACCC
TGAGATTCAACCTGTCCAAGCTAACCCCTGGATCCTGCACGCCAGCCAGAGCTGTCGCTGAGTCTAGGCT
AGCTGAGCTGACCCTGGATCCCACATGCCACCCAGAGATGAGCCTCAGTCTGGCCAGCTGAGCTTACC
CTGGATCCTCAACACCAGGCAAAGGAGCTCCAGTTCCTCAAGCTGCCTGAATTAATCCTGGAGCCTGTAC
ACTGCCGACCCGAGCTCATGAGTGCCTGTGCTGATCTCATCAATGACCAGTGGCCCCGAGTCGTGCCTC
CCGTCTCCACTCCCTGGGCCAGTCTCAGATGCCTTCCCCCTCTGCCTGATGCTGCTGAGCCCCAACCC
ACACCTGGAGCAGCCCCTGTTGTGGTGGGCCATGCCCGCTTATCACGGGTAAGTACCAACCCACAGCC
TCTTAGTAGAGACAGTGGTGGTAGCCCGGCTCTGAGGGGCCGTGGCTTTGGTCGCCCTCATGGAAGG
CTTGGAGGCCCTTGGCAGAGCCCGGGTTTCCGACGGCTACACCTCACCCTCATGACCAGCTGACTTC
TATGCCCATCTGGGCTACCAACTGGGTGAGCCTGTGCAGGGTTTGGCCTTACCAACCGTCGACTGTCCA
CCACTGTCCTACGTGCCTTCTCTAAGCCACCCTGCCCCAGCCACCCTGCAAGGAGCCTATCCTAGCTGC
CCAAGCTGTCCCAAGGAGCTCCAAGGGACCCCCATTGCCACCCTCTCCCCTACCCAGTCTCTGACC
GCCTCACCGCCTCTTCAACCCGAGCCCTTCTCAAAGCCCACTAGAGACATGCTATCGAGATCTGAAGG
GGTGCCCTATATTCTGGATGAAAAAGACATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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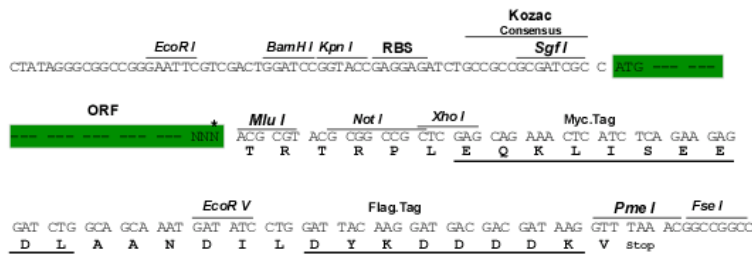
Protein Sequence: >MR204478 protein sequence
 Red=Cloning site Green=Tags(s)

MELILSTSPAKLTLDPARQPELTLRFNLSKLTLDPARQPELSLSPRLAELTLDPTCHPEMSLSPGPAELT
 LDPQHAKELPVPKLPPELILEPVHCRPELMSACADLINDQWPRSASRLHSLGQSSDAFPLCLMLLSPQP
 TPGAAPVVVGHARLSRVLDQPHSLLVETVVVARPLRGRGFRRLMEGLEAFARARGFRRLHLTTHDQLYF
 YAHLGYQLGEPVQGLAFTNRRLSTVLRFAFKPPCPQPPCKEILAAQAVPRSSKGPPLPPPPPLPQSLT
 ASPPPSPEPLPQSPLETCYRDLKGCPIFWMEKDI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



* The last codon before the Stop codon of the ORF

ACCN: NM_019750

ORF Size: 945 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_019750.3](#)

RefSeq Size: 2020 bp

RefSeq ORF: 945 bp

Locus ID: 56441

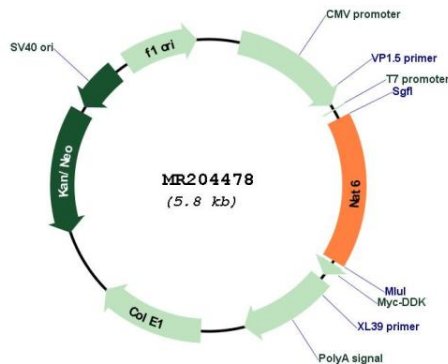
UniProt ID: [Q9R123](#)

Cytogenetics: 9 58.18 cM

MW: 34.6 kDa

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 MR204478