

## Product datasheet for MC207717

### Naa50 (NM\_028108) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Naa50 (NM_028108) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Naa50
Synonyms:	2600005K24Rik; 2810441M03Rik; AW112078; Mak3; Mak3p; Nat5; Nat13; San
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC207717 representing NM_028108 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGAAAGGCCGGATCGAGCTGGGAGATGTGACGCCACACAATATTAACAGTTGAAGAGACTGAACCAGG  
 TCATCTTTCCAGTCAGCTATAATGATAAATCTACAAGGATGTGCTAGAGGTTGGCGAGCTAGCAAACT  
 TGCATATTTCAATGATATAGCTGTAGGTGCAGTGTGCTGCAGGGTGGATCATTACAGAATCAAAAGAGA  
 CTTTACATCATGACACTAGGATGCCTTGACCTTACCGAAGACTAGGAATAGGAATAAAATGTTAAATC  
 ATGTCCTAAACATCTGTGAGAAGGATGGCACTTTTGACAATATCTATCTGCATGTCCAGATCAGCAATGA  
 GTCAGCGATTGACTTTTACCGGAAGTTTGCTTTGAGATTATCGAGACAAAGAAGAACTACTATAAGAGG  
 ATAGAGCCTGCAGACGCGCATGTGCTTCAGAAAAACCTCAAAGTCCCATCTGGTCAGAATGCAGAGACAC  
 AGAAGACAGACAACCTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_028108
Insert Size:	507 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).


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<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<a href="#">NM_028108.3</a> , <a href="#">NP_082384.1</a>
<b>RefSeq Size:</b>	4526 bp
<b>RefSeq ORF:</b>	507 bp
<b>Locus ID:</b>	72117
<b>UniProt ID:</b>	<a href="#">Q6PGB6</a>
<b>Cytogenetics:</b>	16 B4
<b>Gene Summary:</b>	N-alpha-acetyltransferase that acetylates the N-terminus of proteins that retain their initiating methionine. Has a broad substrate specificity: able to acetylate the initiator methionine of most peptides, except for those with a proline in second position. Also displays N-epsilon-acetyltransferase activity by mediating acetylation of the side chain of specific lysines on proteins. Autoacetylates in vivo. The relevance of N-epsilon-acetyltransferase activity is however unclear: able to acetylate H4 in vitro, but this result has not been confirmed in vivo. Component of a N-alpha-acetyltransferase complex containing NAA10 and NAA15, but NAA50 does not influence the acetyltransferase activity of NAA10: this multiprotein complex probably constitutes the major contributor for N-terminal acetylation at the ribosome exit tunnel, with NAA10 acetylating all amino termini that are devoid of methionine and NAA50 acetylating other peptides. Required for sister chromatid cohesion during mitosis by promoting binding of CDCA5/sororin to cohesin: may act by counteracting the function of NAA10.[UniProtKB/Swiss-Prot Function]