

Product datasheet for MC201567

Nae1 (NM_144931) Mouse Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: Nae1 (NM_144931) Mouse Untagged Clone
Tag: Tag Free
Symbol: Nae1
Synonyms: 59kDa; Appbp1
Mammalian Cell Selection: Neomycin
Vector: PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection: Kanamycin (25 ug/mL)

Fully Sequenced ORF: >BC019163 sequence for NM_144931
 CCACGCGTCCGGCCTCCTTAGCGGCTTTGCTGTTTCGCGGGCCAGGCGCGCCATGGCGCAGCCAGGGAA
 GATACTCAAGGAGCAAAAAGTACGACCGGACGCTGAGGCTGTGGGTGATCATGGACAAGAAGCTTTGGAA
 TCTGCTCATGTTTGCTTAATAAATGCAACGGCTACAGGAACTGAAATTCTTAAAACTTGGTGTGCCAG
 GTATTGGATCATTACAATTATTGATGGAATCTGGTCAGCGGAGAAGATGCTGGAACAACCTTTTCTCT
 TCAAAAAAGCAGTATTGGCAAGAACCGAGCTCAAGCTGCCATGGAATTCTTACAAGAATAAATAGCGAT
 GTCTCTGGAAGTTTTGTGGAAGAGAGTCCAGAAAACCTTCTAGACAATGATCCTTCATTTTTCTGTAGGT
 TTAATAATTGTGGTTGCAACTCAGCTTCTTCAAAGTACATTGCTGCGTTTAGCAGATGTTCTCTGGAATTC
 CCAGATCCCTCTTTGATCTGTAGGACATATGGACTAGTTGGTTATATGAGGATTATTATAAAGAACAC
 CCAGTAATAGAATCTCATCCAGATAATGCATTGGAGGATCTACGACTAGATAAGCCATTTCTGAACTGA
 GAGAACATCTTCAGTCTTATGACTTGGACCATATGGAAAAAAGGACCATAGCCATACTCCATGGATTGT
 GATCATAGCTAAATATTTAGCACAGTGGTATAATGAAACAAATGGACGGATTCCTAAAAGTTATAAAGAA
 AAAGAGGACTTCAGAGATTTGATAAGACAAGGGATTTTAAAGAATGAAAATGGAGCTCCAGAAGACGAAG
 AGAATTTTGAAGAAGCCATCAAAAATGTGAACACAGCACTAAATACAACCTCAGATCCCAAGCAGTATTGA
 AGATATATTTAATGATGATCGATGCATAAATATCACCAACAGACACCAACTTTTTGGATTCTAGCTCGT
 GCCTTAAAGGAATTTGTGGCCAAGGAGGGTCAAGGAAATTTACCTGTCCGAGGCACAATTCCTGATATGA
 TTGCAGATTCAAACAAATACATAAACTGCAGAATGTTTACCGAGAGAAAGCAAAGAAAGATGCTGCTGC
 TGTAGGCAATCACGTTGCCAAATTCCTCAGTCTGTTGGCCAGGCACCAGAGTCCATTTTCAGAGAAAGAA
 TTAATAATTGCTTTGCAGCAATTCGCAATTTCTTCGAGTGGTAAGATGTCGATCTTTAGCTGAAGAGTATG
 GCTTGGATACAGTCAACAAGATGAAATTTTCTAGCATGGACAATCCGATAAATGAGATAGTCCCTGTA
 CCTGATGTTGCGGGCTGTTGATCGATTTTATAAACAGCATGGCAGATACCCAGGAGTATCTAACTATCAA
 GTTGAAGAAGATATAGGGAAGTTGAAGTCTGTCTACTGGCTTCTTCAGGAATATGGGCTGTCTGTAA
 TGGTGAAGACGATTATGTCCATGAATTTTGGCGGTACGGAGCTGCTGAGCCACACACCATTGCTGCGTT
 CCTGGGAGGAGCTGCTGCTCAAGAAGTTATCAAAATAATCACCAAAACAATTCGTAATTTTAAATAACT
 TATATTTATAGTGGTATGTCACAACTTCTGCACTTTCCAGTTGTAGAATAAGCACCATGTGTAATATG
 TTAATGGTTGAACTGTAATTGTCTTCATATTGTCTTTGGTTTGTAAAAATCTGTTAAAGGACGGAAGT
 TAAATTGTTTCCTTAATAAAAAGTTTTTCTCATTGTAAAAAATTTTTTTTTTAAAGGACGGAAGT



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Restriction Sites:	RsrII-NotI
ACCN:	NM_144931
Insert Size:	1605 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).
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:	BC019163 , AAH19163
RefSeq Size:	1805 bp
RefSeq ORF:	1605 bp
Locus ID:	234664
UniProt ID:	Q8VBW6
Cytogenetics:	8 D3
Gene Summary:	Regulatory subunit of the dimeric UBA3-NAE1 E1 enzyme. E1 activates NEDD8 by first adenylating its C-terminal glycine residue with ATP, thereafter linking this residue to the side chain of the catalytic cysteine, yielding a NEDD8-UBA3 thioester and free AMP. E1 finally transfers NEDD8 to the catalytic cysteine of UBE2M. Necessary for cell cycle progression through the S-M checkpoint. Overexpression of NAE1 causes apoptosis through deregulation of NEDD8 conjugation (By similarity).[UniProtKB/Swiss-Prot Function]