

Product datasheet for **MC221241**

Naalad2 (NM_028279) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Tag:	Tag Free
Symbol:	Naalad2
Synonyms:	2700022G20Rik; D9Ertd285e; Folh1b; GCP3; GCPIII; NAADALASE2; NAALADASE2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



Fully Sequenced ORF: >MC221241 representing NM_028279
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGCGGCCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**

ATGGCAAGGCCTAGGCATCTCCGTGGCTTGGGAATGTGCATTACCGCGGTGCTGGCCTCCTTCATCGCTG
 GCTTTACTGTGGGCTGGTTTATTAAGCCTCTCAAAGAAACAACACTTCTGCTGGTTATCATCAAAGTAT
 ACAACGAAACTCTATCTGAAATGAAAGCTGAAAACATTAGATCATTTCTTCGTTCTTTACAAAACCT
 CCCCATCTGGCAGGAACGGAACAAATTTACTTCTGCCAAGAAAATCCAAACACAGTGGAAGAAATTTG
 GATTAGATTGAGCTAACCTGGTTCATTACGATGTTCTCTTGTCTTATCCAAATGAGACCAATGCAAACCTA
 TGTATCCATTGTGGATGAGCATGGAGTTGAGATTTTAAACATCATACCTTGAACCAACACAGATGGA
 TATGAGAATGTTACAAACATCATACCAACATACATGCGTTTTTCAGCCAGCGGCATGCCGGAGGAGAGC
 TTGTGTATGTCAACTACGCTCGTACTGAGGACTTCTTCAAAGTAAAGAGAAATGAACATCAACTGCAC
 TGGCAAGATTGTTATCGCAAGATATGGGAAGATCTTTAGAGGAAACAAAGTCAAAAATGCCATGCTAGCT
 GGGGCCATGGGAATCATTCTGTAATCTGATCCAGCTGACTACTTTGCCCTGATGTGCAGCCATATCCCA
 AAGGATGGAACCTTCTGGAGCTGCAGCTCAGAGAGGAAATGTCTTAAATCTGAATGGGGCAGGTGACCC
 ACTCACTCCAGGCTATCCAGCTAAAGAATACACCTTCAGACTTCTGTTGAAGAAGCAGTGGGGATTCCA
 AACATACCTGTACATCTATTGGATATAATGATGCAGAGAGACTATTACGCAACTTGGGAGGAGCTGCTC
 CACCAGACAAAAGCTGGAAGGGAAGTCTAAATGTCAGTTACAATATTGGGCTGGCTTTACAGGAAGTGA
 ATATTCAGGAACATTAGAATGCATGTTAATAACATTAACAAAATCACAAGAATTTACAATGTAATTGGA
 ACTATCAGAGGGTCTACAGAACCTGACAGGTATGTCATTCTCGGAGGTGATCGTACTCCTGGGTGTTTG
 GAGGGATTGACCTACCACTGGGACAGCAGTTTTCAGAGAGATTGCGCGAAGTTTGGGAACTTGTGAA
 TGGAGGTTGGAGACCTAGGAGAACTATCATTTTGGCAGCTGGGATGCAGAGGAGTTTGGGCTGCTGGGG
 TCAACTGAATGGGCTGAAGAGAATGCAAAGCTCTACAGGAGAGAAGCATTGCTTACATCAACTCAGATT
 CTGCTATAGAAGGTAATTACACTCTTCGAGTTGATTGTAATCTCTTCTAAACCAGCTGGTTACAAAGT
 GGCAAGAGAGATCTCCAGTCTGATGATGGTTTTGAAAGTAAATCACTTTATGAAAGCTGGCTGGAAAAA
 GACCTTTCACCTGAAAAATAAGAGTGTCTAGAATCAATAAGCTTGGATCTGGGAGTGATTTTGAGGCTT
 ACTTCAAAGACTTGGAATTGCTTCAGGCAGAGCTCGCTACACTAAGAACAAGAAAACAGATAAATACAG
 TAGCTATCTGTATATCATACCATCTATGAGACGTTTGAATTAGTACAGAACTTTATGACCCACATTT
 AAAAGCAACTGTCTGTGGCTCAGTTACGAGGAGCATTGGTATATGAGCTTGACAGCTCTGTGGTCATT
 CTTTCAACATTCAAGACTATGCAAAAGCCTTGAAAACTATGCAGCAAGTATTTTCAACATATCCAAGAA
 ACACGACCAAGCAATTGAGAAACCATGCAGTGTCATTTGATCCCTTATTTCTGCTGTGAAAACTTTTCG
 GAGGCTGCTTCAGATTTTACAGAAAGCTTACACAAGTTGATCTTAATAATCCTATTGCAGTGAGAAATTA
 TGAATGACCAAGCAGATGCTTCTTGAAGAGCATTATAGATCCTCTTGGTTTACCTGGGAGGAAGTTCTA
 CAGGCACATCATCTTTGCTCCAAGCAGCCACAACAAATATGCCGGAGAATCATTCCCTGGGATTTATGAT
 GCCATGTTTATATTGAAAAATAAGGCAGACCTTCTTGGCCTGGGAGAGTGAAGAAACATATTTCTA
 TTGAGCTTTTACAATTAGGCAGCAGCGGGACACTGACCAATGTGTTA**AG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_028279

Insert Size: 2223 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:	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_028279.3</u> , <u>NP_082555.2</u>
RefSeq Size:	2690 bp
RefSeq ORF:	2223 bp
Locus ID:	72560
UniProt ID:	<u>Q9CZR2</u>
Cytogenetics:	9 7.02 cM
Gene Summary:	Has N-acetylated-alpha-linked-acidic dipeptidase (NAALADase) activity. Also exhibits a dipeptidyl-peptidase IV type activity. Inactivates the peptide neurotransmitter N-acetylasparylglutamate.[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (3) differs in the 5' UTR and coding sequence compared to variant 1. The resulting isoform (b) is shorter at the N-terminus compared to isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.