

Product datasheet for **SC337268**

NAALAD2 (NM_001300930) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NAALAD2 (NM_001300930) Human Untagged Clone
Tag:	Tag Free
Symbol:	NAALAD2
Synonyms:	GCPIII; GPCIII; NAADALASE2; NAALADASE2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001300930, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGAATCCAGGGCCGCTGTACCTTTGGATGTGCTTGGCTGCTGCGCTGGCATCTTTCCTGATGG
GATTTATGGTGGGCTGGTTTATTAAGCCTCTCAAAGAAACGACCATTCTGTGCGCTATCATCAAAGTAT
ACGGTGGAACTGGTATCCGAAATGAAAGCTGAAACATCAAATCATTTCTTCTGTTCTTTTACAAAGCTT
CCTCATCTGGCAGGAACAGAACAAAATTTCTTGCTTGCCAAGAAAATCCAAACCCAGTGGGAAGAAATTTG
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CGAATACCTGTACATCCCATTGGATATAATGATGCAGAAATATTATTACGGAAGGTTAGAATGCATGTTT
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TATACAAGTTGATCTTAACAATCCCATTCAGTGAGAATGATGAATGACCAACTGATGCTCTGGAAGA
GCATTCATCGATCCTCTTGGTTTACCAGGAAAGCTGTTCTATAGGCACATCATATTTGCTCCAAGTAGCC
ACAACAAATATGCTGGAGAATCATTTCTGGAATCTATGATGCTATCTTTGATATTGAAAATAAAGCCAA
CTCTCGTTTGGCCTGGAAAGAAGTAAAGAAACATATTTCTATTGCAGCTTTTACAATTCAAGCAGCAGCA
GGAAGTCTGAAAGAAGTATTA TAG
    
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Restriction Sites: SgfI-MluI

ACCN: NM_001300930

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.
RefSeq:	<u>NM_001300930.1, NP_001287859.1</u>
RefSeq Size:	3097 bp
RefSeq ORF:	2124 bp
Locus ID:	10003
UniProt ID:	<u>Q9Y3Q0</u>
Cytogenetics:	11q14.3
Protein Families:	Druggable Genome, Transmembrane
Gene Summary:	This gene is a member of the N-acetylated alpha-linked acidic dipeptidase (NAALADase) gene family. The representative member of this family is the gene encoding human prostate-specific membrane antigen (PSM), which is a marker of prostatic carcinomas and is the first to be shown to possess NAALADase activity. NAALADase cleaves N-acetyl-L-aspartate-L-glutamate (NAAG), which is a neuropeptide expressed both in the central nervous systems and in the periphery and is thought to function as a neurotransmitter. The product of this gene is a type II integral membrane protein. Transient transfection of this gene confers both NAALADase and dipetidyl peptidase IV activities to mammalian cells. This gene is highly expressed in ovary and testis as well as within discrete brain areas. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2014] Transcript Variant: This variant (2) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (2) has the same N- and C-termini but is shorter compared to isoform 1.