

Product datasheet for **MR204432**

Aspa (NM_023113) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Aspa (NM_023113) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Aspa
Synonyms:	Acy; Acy-; Acy-2; Acy2; nu; nur7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR204432 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGACCTCTTGTGTTGCTAAAGAACCTATTAAGAAGATTGCCATCTTTGGAGGGACTCATGGAAATGAAC
TGACCGGAGTGTTTCTAGTTACTCACTGGCTAAGGAATGGCACTGAAGTTCACAGAGCAGGGCTGGACGT
GAAGCCATTCAATACCAATCCAAGGGCGGTGGAGAAGTGCACCAGATACATTGACTGTGACCTGAATCGT
GTTTTTGACCTTGAAAATCTTAGCAAAGAGATGTCTGAAGACTTGCCATATGAAGTGAGAAGGGCTCAAG
AAATAAATCATTATTTGGTCCAAAAAATAGTGATGATGCCTATGACATTGTTTTGACCTTCACAACAC
CACTTCTAACATGGGTTGCACTCTTATTCTTGAGGATTCCAGGAATGACTTTTTAATTCAGATGTTTCAC
TATATTAAGACTTGCAATGGCTCCATTACCTGCTCTGTTTATCTCATTGAGCATCCTTCACTCAAATATG
CAACCACTCGTTCCATTGCCAAGTATCCTGTTGGTATAGAAGTTGGTCTCAGCCTCACGGTGTCCCTTAG
AGCTGATATTTAGACCAAATGAGAAAAATGATAAAACATGCTCTTGATTTTATACAGCATTTCAATGAA
GGAAAAGAATTTCTCCCTGTTCTATTGACGCTATAAAAATATGGAGAAAGTTGATTATCCAAGGAATG
AAAGTGGAGACATGGCTGCTGTTATTCATCCTAATCTGCAGGATCAAGACTGGAAACCATTGCACCCTGG
AGATCCTGTGTTGTCTCTTGATGGAAAAGTTATCCACTGGTGGAGACTGTACCGTGTACCCAGTG
TTTGTGAATGAAGCTGCATATTATGAAAAAAGAAGCATTGCAAAGACAACAAAATAACTACTCAGCG
CAAAAAGCATCCGCTCCACTTTGCAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR204432 protein sequence
Red=Cloning site Green=Tags(s)

MTSCVAKEPIKKIAIFGGTHGNELTGVFLVTHWLRNGTEVHRAGLDVKPFITNPRAVEKCTRYIDCDLNR
 VFDLENLSKEMSEDLPYEVRRAQEINHILFGPKNSDDAYDIVFDLHNTTNNMGCTLILEDNRNDFLIQMFH
 YIKTCMAPLPCSVYLIEHPSLKYATTRSIAKYVGVIEVGPQPHGVLRADILDQMRMKIKHALDFIQHFNE
 GKEFPPCSIDVYKIMEKVDYPRNESGDMAAVIHPNLQDQDWKPLHPGDPVVFVSLDGKVIPLGGDCTVYYPV
 FVNEAAYEKKEAFKTKLTLSAKSIRSTLH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_023113

ORF Size: 939 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_023113.1](#), [NM_023113.2](#), [NM_023113.3](#), [NM_023113.4](#), [NM_023113.5](#), [NP_075602.2](#)

RefSeq Size: 1537 bp

RefSeq ORF: 939 bp

Locus ID: 11484

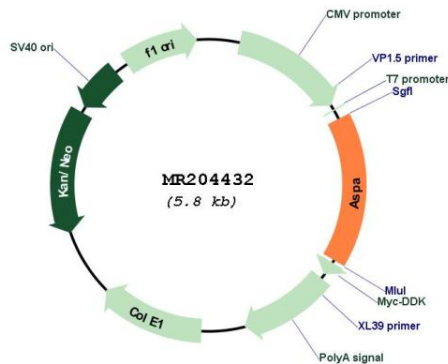
UniProt ID: [Q8R3P0](#)

Cytogenetics: 11 B4

MW: 35.3 kDa

Gene Summary: This gene encodes an enzyme that deacetylates N-acetyl-L-aspartic acid (NAA) in the brain to yield acetate and L-aspartate. In humans, alterations in neuronal NAA concentration are associated with many neurodegenerative diseases (decrease associated with epilepsy, multiple sclerosis, myotrophic lateral sclerosis, and Alzheimer's disease; increase associated with Canavan disease). In mouse, mutations in this gene, which cause accumulation of NAA, result in demyelination and spongy degeneration in the CNS and serve as a pathophysiological model for Canavan disease. [provided by RefSeq, Dec 2012]

Product images:



Circular map for MR204432