

## Product datasheet for SC114775

### ASPA (NM\_000049) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ASPA (NM_000049) Human Untagged Clone
Tag:	Tag Free
Symbol:	ASPA
Synonyms:	ACY2; ASP
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC114775 sequence for NM_000049 edited (data generated by NextGen Sequencing)

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ATGACTTCTTGTACATTGCTGAAGAACATATACAAAAGTTGCTATCTTTGGAGGAACC
CATGGGAATGAGCTAACCGGAGTATTTCTGGTTAAGCATTGGCTAGAGAATGGCGCTGAG
ATTCAGAGAACAGGGCTGGAGGTAAAACCATTTTACTAACCCAGAGCAGTGAAGAAG
TGTACCAGATATATTGACTGTGACCTGAATCGCATTTTTGACCTTGAAAATCTTGCCAAA
AAAATGTCAGAAGATTTGCCATATGAAGTGAGAAGGGCTCAAGAAAATAAATCATTATTT
GGTCCAAAAGACAGTGAAGATTCCTATGACATTATTTTTGACCTTCAACACCACCTCT
AACATGGGGTGCCTCTTATTCTTGAGGATTCAGGAATAACTTTTTAATTCAGATGTTT
CATTACATTAAGACTTCTCTGGCTCCACTACCCTGCTACGTTTATCTGATTGAGCATCCT
TCCCTCAAATATGCGACCACTCGTTCCATAGCCAAGTATCCTGTGGGTATAGAAGTTGGT
CCTCAGCCTCAAGGGTTCTGAGAGCTGATATCTTGATCAAATGAGAAAATGATTAAA
CATGCTCTTGATTTATACATCATTTCAATGAAGGAAAAGAAATTCCTCCCTGCGCCATT
GAGGTCTATAAAATTATAGAGAAAGTTGATTACCCCGGGATGAAAATGGAGAAATTGCT
GCTATCATCCATCCTAATCTGCNGGATCAAGACTGGAAACCACTGCATCCTGGGGATCCC
ATGTTTTAACTTTGATGGGAAGACGATCCCACTGGCGGAGACTGTACCGTGTACCCC
GTGTTTGTGAATGAGCCGCATATTACGAAAAGAAAGAAGCTTTTGCAAAGACAATAAA
CTAACGCTCAATGCAAAAAGTATTCGCTGCTGTTTACATTAG

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Clone variation with respect to NM\_000049.2  
743 a=>n



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_000049 unedited  
 TGGATTTTGTAAACACGATTTTCTATAGGGCGGCCGGAATTCGGCACGAGGATGACTTCT  
 TGTACATTGCTNGAAGAACATATACAAAAGGTTGCTATCTTTGGAGGAACCCATGGGAA  
 TGAGCTAACCGGAGTATTTCTGGTTAAGCATTGGCTAGAGAATGGCGCTGAGATTCAGAG  
 AACAGGGCTGGAGGTAACCATTATTACTATTTTTATNACAGCGAAGAAGTGTACCAG  
 ATATATTGACTGTGACCTGAATCGCATTTTTGACCTTGAAAATCTTGGCAAAAAAATGTC  
 AGAAGATTTGCCATATGAAGTGAGAAGGGCTCAAGAAAATAAATCATTTATTTGGTCCAAA  
 AGACAGTGAAGATTCCTATGACATTATTTTTGACCTTCACAACACCACCTTAACATGGG  
 GTGCACTCTTATTCTTGAGGATTCAGGAATAACTTTTTAATTCAGATGTTTCATTACAT  
 TAAGACTTCTCTGGCTCCACTACCCTGCTACGTTTATCTGATTGAGCATCCTTCCCTCAA  
 ATATGCGACCACTCGTTCATAGCCAAGCATCCTGTGGGCATAGAAGTTGGCCCTCACCC  
 TCAAGGCGTTCTGAGAGCTGATATCTTGGATCACATGACAAAAAGATTAAACATGCCTTT  
 GATTTTATACATTCTTTCAATGAAGGAAAAGAATTTCTCCCTGCGCCATTGGAGTCTTA  
 TAAAATTATAGAGAAAGTTGATTACCCTCGGGATGAAAAGTGTAGCAACTCGGTGCTTA  
 TCATTCCCTCCTAATCTGCAGAGGCATAAGAAGTGAACCCACTGCATCCTGCGGATCCC  
 ATGTCTTTAAACTTTGGATCGGAAAACGATTCCCTGTGGCGGAGACTGTCCCGTGGCCC  
 CCGGGCTTGAGACGGACGCCGCTATTACTAAAGCAGGAATCTTCTTGAAGCACCC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_000049 unedited  
 TACCGCGGCCGCACTTCTAGAAAGTGAAGTTTTTTTTCTTTTTTTCTTTTTTTTTT  
 CACAGAATCACCATAGCAGATATAATAAATAAATCATAAAAAACCTTGAAATATTATCAA  
 AGGGTGACACAGAGACAAGGAGTGAGCACATGCTGTTGGAAACATGGCACTGTTAAACTT  
 TCTAAACACAGGGTTGCCAAAAACCTTCAATTTGAAAAAAGTACAGTATCCGTGAAGT  
 GTATTAAGGCAAAGCACATAAAACAAATAACTTTATATATATCTATTTCAATTTATAT  
 TCTGAATACAAAAGCTGTTTATTAATAAATGTTGAGCTACCCAAGTATCATGTATAATAAA  
 CTATATAGAAATAGGAAACACTTCTTTGAATAAGCTACATACATAAAAATATGATATCTTT  
 AAAGATATATTAATTAATTTAAAAAATTTGCTTAAATGCCTACCGAATAAGGCACCTGTGC  
 TAGGAGCTATGTATGCAGTTGAATAAGGCACAACCCTACTCTTAAGGAGCTTACAGACTA  
 GCAGAATTTGTAAGACACCGTGAAGATGAAGCTGGAAGTGAATTTCTAATGTAACAGC  
 AGCGAATACTTTCTGCATTGAGCGTTAGTTTAGTTGCCTTTGCAAAGCTCTTTCTTTTT  
 CGTATATGCGGCCTCATTACAAAACACGGGTACACGGTACAGTCTCCGCCAGGGGGATC  
 GTCTTCCATCAAGAGTTAAACATGGGATCCCCAGTATCAGTGGTTTCCAGTCTTGATCC  
 TCTGAACATAAGATGGATGATAGCACCTTTTTTCCATCTCATTCCGGGAAATCAACTTT  
 CTCTTTAATTTATAAACCCCAATGCGCAAGGAGGAATTCTTTCTCCTGAAAGAAGTTA  
 AAATCAGAACTGTTTATCATCTTCTCATTGACCCAAATACCTTTAAACCCTGAGGCGA  
 GACAATTTCTTCCAGAAGTGGTTTGGAAAAAGTCCCTTTTGGAGGAGGAGCAACC

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_000049

**Insert Size:**

1650 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).

<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>RefSeq:</b>	<a href="#">NM_000049.2</a> , <a href="#">NP_000040.1</a>
<b>RefSeq Size:</b>	1435 bp
<b>RefSeq ORF:</b>	942 bp
<b>Locus ID:</b>	443
<b>UniProt ID:</b>	<a href="#">P45381</a>
<b>Cytogenetics:</b>	17p13.2
<b>Domains:</b>	Aste_AspA
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Alanine, aspartate and glutamate metabolism, Histidine metabolism
<b>Gene Summary:</b>	<p>This gene encodes an enzyme that catalyzes the conversion of N-acetyl_L-aspartic acid (NAA) to aspartate and acetate. NAA is abundant in the brain where hydrolysis by aspartoacylase is thought to help maintain white matter. This protein is an NAA scavenger in other tissues. Mutations in this gene cause Canavan disease. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (1) and variant 2 encode the same protein.</p>