

Product datasheet for SC322967

ASPA (NM_001128085) Human Untagged Clone

Product data:

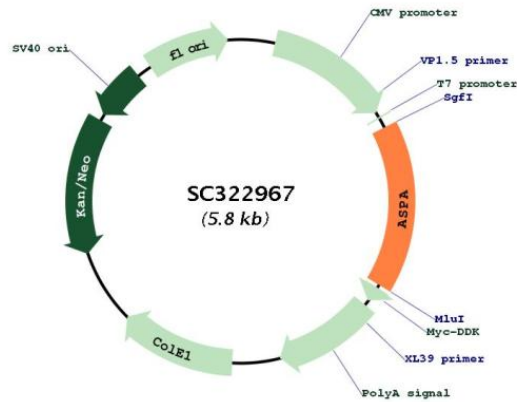
Product Type:	Expression Plasmids
Product Name:	ASPA (NM_001128085) Human Untagged Clone
Tag:	Tag Free
Symbol:	ASPA
Synonyms:	ACY2; ASP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC322967 representing NM_001128085. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGACTTCTTGTCACATTGCTGAAGAACATATACAAAAGGTTGCTATCTTTGGAGGAACCCATGGGAAT
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GCTCAAGAAATAAATCATTTATTTGGTCCAAAAGACAGTGAAGATTCCTATGACATTATTTTGGACCTT
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CTCAAATATGCGACCACTCGTTCATAGCCAAGTATCCTGTGGGTATAGAAGTTGGTCTCAGCCTCAA
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CCACTGCATCCTGGGGATCCCATGTTTTAACTCTTGATGGGAAGACGATCCCACTGGGCGGAGACTGT
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AACTAACGCTCAATGCAAAAAGTATTGCTGCTGTTTACATTAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGCGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:


ACCN: NM_001128085

Insert Size: 942 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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_001128085.1](#)

RefSeq Size: 1368 bp

RefSeq ORF: 942 bp

Locus ID:	443
UniProt ID:	P45381
Cytogenetics:	17p13.2
Protein Families:	Druggable Genome
Protein Pathways:	Alanine, aspartate and glutamate metabolism, Histidine metabolism
MW:	35.7 kDa
Gene Summary:	<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 (2) has an alternate 5' UTR and encodes the same protein, as compared to variant 1.</p>