

Product datasheet for SC303053

ASIP (NM_001672) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ASIP (NM_001672) Human Untagged Clone
Tag:	Tag Free
Symbol:	ASIP
Synonyms:	AGSW; AGTI; AGTIL; ASP; SHEP9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC303053 representing NM_001672. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGATGTCACCCGCTTACTCCTGGCCACCCTGCTGGTCTTCTCTGCTTCTTCACTGCCAACAGCCAC
CTGCCACCTGAGGAGAAGCTCCGAGATGACAGGAGCCTGAGAAGCAACTCCTCTGTGAACCTACTGGAT
GTCCCTTCTGTCTCTATTGTGGCGCTGAACAAGAAATCCAACAGATCGGCAGAAAAGCAGCAGAAAAG
AAAAGATCTTCTAAGAAGGAGGCTTCGATGAAGAAAGTGGTGGCGCCCGGACCCCTATCTGCCGCC
TGCGTGGCCACCCGCAACAGCTGCAAGCCGCCGGCACCCGCTGCTGCGACCCGTGCGCCTCCTGCCAG
TGCCGCTTCTTCCGAGCGCCTGCTCCTGCCGCTGCTCAGCCTCAACTGCTGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites:	Sgfl-MluI
ACCN:	NM_001672
Insert Size:	399 bp



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OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 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_001672.2](#)

RefSeq Size: 584 bp

RefSeq ORF: 399 bp

Locus ID: 434

UniProt ID: [P42127](#)

Cytogenetics: 20q11.22

Protein Families: Secreted Protein

Protein Pathways: Melanogenesis

MW: 14.5 kDa

Gene Summary:

In mice, the agouti gene encodes a paracrine signaling molecule that causes hair follicle melanocytes to synthesize pheomelanin, a yellow pigment, instead of the black or brown pigment, eumelanin. Pleiotropic effects of constitutive expression of the mouse gene include adult-onset obesity, increased tumor susceptibility, and premature infertility. This gene is highly similar to the mouse gene and encodes a secreted protein that may (1) affect the quality of hair pigmentation, (2) act as a pharmacological antagonist of alpha-melanocyte-stimulating hormone, (3) play a role in neuroendocrine aspects of melanocortin action, and (4) have a functional role in regulating lipid metabolism in adipocytes. [provided by RefSeq, Jul 2008]