

Product datasheet for RC222654

ASIP (NM_001672) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: ASIP (NM_001672) Human Tagged ORF Clone

Tag: Myc-DDK

Symbol: ASIP

Synonyms: AGSW; AGTI; AGTIL; ASP; SHEP9

Mammalian Cell Neomycin

Selection:

Vector:pCMV6-Entry (PS100001)E. coli Selection:Kanamycin (25 ug/mL)

ORF Nucleotide >RC222654 representing NM_001672

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGATGTCACCCGCTTACTCCTGGCCACCCTGCTGGTCTTCCTCTGCTTCTTCACTGCCAACAGCCACC TGCCACCTGAGAGAAAGCTCCGAGATGACAGGAGACCTCGAGAAGCAACTCCTCTGTGAACCTACTGGATGT CCCTTCTGTCTCTATTGTGGCGCTGAACAAGAAATCCAAACAGATCGGCAGAAAAGCAGCAGAAAAAGAAA AGATCTTCTAAGAAGAAGGCTTCGATGAAGAAAGTGGTGCGGCCCCGGACCCCCCTATCTGCGCCCTGCG TGGCCACCCGCAACAGCTGCAAGCCGCCGGCACCCGCTGCCGCCTGCCGACCCCGCTGCCCAGTGCCG

CTTCTTCCGCAGCGCCTGCTCCTGCCGCGTGCTCAGCCTCAACTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT

ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC222654 representing NM_001672

Red=Cloning site Green=Tags(s)

MDVTRLLLATLLVFLCFFTANSHLPPEEKLRDDRSLRSNSSVNLLDVPSVSIVALNKKSKQIGRKAAEKK

RSSKKEASMKKVVRPRTPLSAPCVATRNSCKPPAPACCDPCASCQCRFFRSACSCRVLSLNC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg2847 a02.zip

Restriction Sites: Sgfl-Mlul



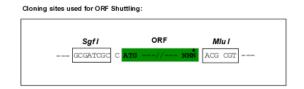
OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

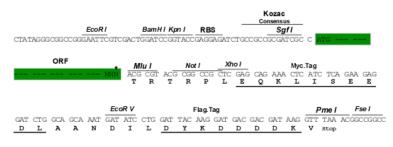
CN: techsupport@origene.cn

Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com



Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_001672

ORF Size: 396 bp

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 customport@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. <u>More info</u>

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: <u>NM 001672.2</u>, <u>NP 001663.2</u>

RefSeq Size:584 bpRefSeq ORF:399 bpLocus ID:434

 UniProt ID:
 P42127

 Cytogenetics:
 20q11.22

Protein Families: Secreted Protein
Protein Pathways: Melanogenesis

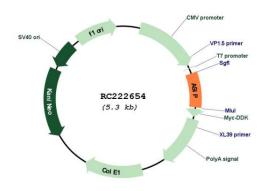
2008]

MW: 14.52 kDa

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

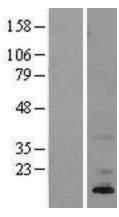
Product images:

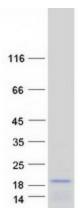
Gene Summary:



Circular map for RC222654







Western blot validation of overexpression lysate (Cat# [LY419812]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC222654 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

Coomassie blue staining of purified ASIP protein (Cat# [TP322654]). The protein was produced from HEK293T cells transfected with ASIP cDNA clone (Cat# RC222654) using MegaTran 2.0 (Cat# [TT210002]).