

## 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 Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC222654 representing NM\_001672  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGATGTCACCCGTTACTCCTGGCCACCCTGCTGGTCTTCTCTGCTTCTTCACTGCCAACAGCCACC  
TGCCACCTGAGGAGAAGCTCCGAGATGACAGGAGCCTGAGAAGCAACTCCTCTGTGAACCTACTGGATGT  
CCCTTCTGTCTCTATTGTGGCGCTGAACAAGAAATCCAAACAGATCGGCAGAAAAGCAGCAGAAAAGAAA  
AGATCTTCTAAGAAGGAGGCTTCGATGAAGAAAGTGGTGC GCCCGGACCCCTATCTGCGCCCTGCC  
TGCCACCCGCAACAGCTGCAAGCCGCCCGCACCCGCTGCTGCGACCCGTGCGCCTCCTGCCAGTGCCG  
CTTCTTCGAGCGCCTGCTCCTGCCGCTGCTCAGCCTCAACTGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC222654 representing NM\_001672  
Red=Cloning site Green=Tags(s)

MDVTRLLLATLLVFLCFFTANSHLPPEEKLRDDRSLRSNSSVNLDDVPSVSIIVALNKKSKQIGRKAEEK  
RSSKKEASMKKVVRPTPLSAPCVATRNSCKPPAPACDCPCASCQRFFRSACSCRVL SLNC

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mg2847\\_a02.zip](https://cdn.origene.com/chromatograms/mg2847_a02.zip)

**Restriction Sites:** Sgfl-MluI



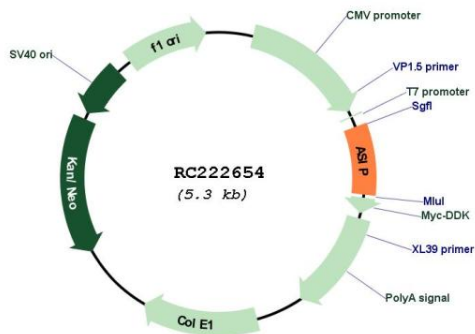
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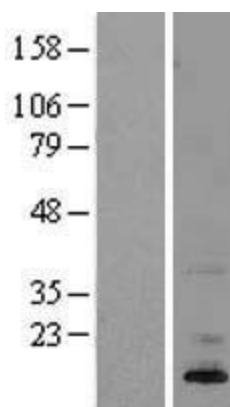
**RefSeq:** [NM\\_001672.2, NP\\_001663.2](#)  
**RefSeq Size:** 584 bp  
**RefSeq ORF:** 399 bp  
**Locus ID:** 434  
**UniProt ID:** [P42127](#)  
**Cytogenetics:** 20q11.22  
**Protein Families:** Secreted Protein  
**Protein Pathways:** Melanogenesis  
**MW:** 14.52 kDa

**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]

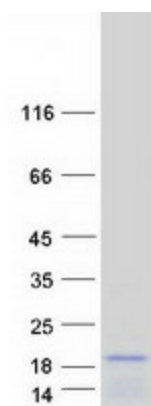
### Product images:



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]).