

Product datasheet for **RG222654**

ASIP (NM_001672) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ASIP (NM_001672) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: ASIP
Synonyms: AGSW; AGTI; AGTIL; ASP; SHEP9
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG222654 representing NM_001672
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGATGTCAACCGCTTACTCCTGGCCACCCTGCTGGTCTTCTCTGCTTCTTCACTGCCAACAGCCACC
 TGCCACCTGAGGAGAAGCTCCGAGATGACAGGAGCCTGAGAAGCAACTCCTCTGTGAACCTACTGGATGT
 CCCTTCTGTCTCTATTGTGGCGCTGAACAAGAAATCCAAACAGATCGGCAGAAAAGCAGCAGAAAAGAAA
 AGATCTTCTAAGAAGGAGGCTTCGATGAAGAAAGTGGTGCGCCCGGACCCCTATCTGCGCCCTGCC
 TGCCACCGCAACAGCTGCAAGCGCCGCGCACCCGCTGCTGCGACCCGTGCGCCTCTGCCAGTGCCG
 CTCTTCCGAGCGCCTGCTCCTGCCGCTGCTCAGCCTCAACTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG222654 representing NM_001672
 Red=Cloning site Green=Tags(s)

MDVTRLLLATLLVFLCFFTANSHLPPEEKLRDDRSLRSNSSVNLLDVPSVSIVALNKKSKQIGRKAEEK
 RSSKKEASMKKVVRPRTPLSAPCVATRNSCKPPAPACCDPCASCQCRFFRSACSCRVLSLNC

TRTRPLE - GFP Tag - V

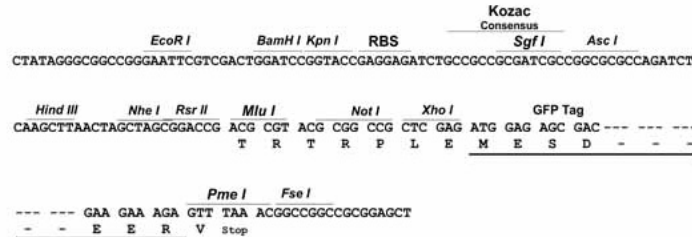
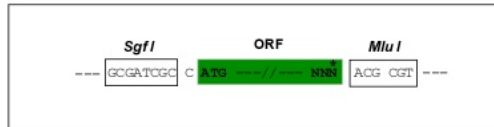
Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Cloning sites used for ORF Shutting:


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 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 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: [NM_001672.2](#), [NP_001663.2](#)

RefSeq Size: 584 bp

RefSeq ORF: 399 bp

Locus ID: 434

UniProt ID: [P42127](#)

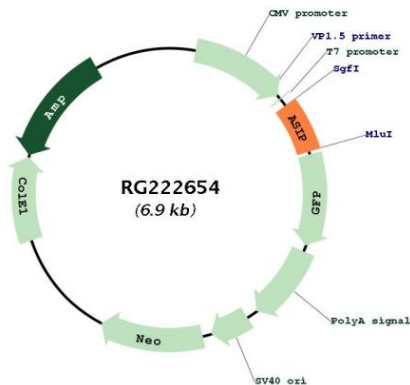
Cytogenetics: 20q11.22

Protein Families: Secreted Protein

Protein Pathways: Melanogenesis

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 RG222654