

Product datasheet for **RG229847**

ASMT (NM_001171039) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: ASMT (NM_001171039) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: ASMT
Synonyms: ASMTY; HIOMT; HIOMTY
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG229847 representing NM_001171039
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGATCCTCAGAGGACCAGGCCTATCGCCTCCTTAATGACTACGCCAACGGCTTCATGGTGTCCAGG
 TTCTCTTCGCGCCTGCGAGCTGGGCGTGTGGACCTTTCGCGGAGGCCCCAGGGCCCTGGACGTGGC
 GGCAGTGGCTGCAGGTGTGAGGGCCAGCGCCCATGGGACAGAGCTCCTGCTGGACATCTGTGTGCCCTG
 AAGCTGCTGAAAGTGGAGACGAGGGGAGGAAAAGCTTTCTATCGAAACACAGAGCTGTCCAGCGACTACC
 TGACCACGGTCAGCCCGACGTACAATGCAGCATGCTGAAGTACATGGGACGAGGACCTACCGGTGCTG
 GGGCCACCTGGCAGACGCGGTGAGAGAAGGAAGCAACAGTACCTGGAGACGTTTGGCGTCCCGCTGAA
 GAGCTTTTTACGGCCATCTACAGGTCCGAGGGCGAGCGGTACAGTTCATGCAAGCTCTGCAAGGAGTCT
 GGAGCGTCAACGGGAGAAGCGTGTGACCGCCTTTGACCTGTGAGTGTCCCACTTATGTGTGACCTTGG
 TGGGATTTCTTCAAAGACCCCTTCCGGAAGCTGATCTGTACATCCTGGCCAGGGTCTCCATGACTGG
 GCAGACGAAAGTGTACACCTGCTGGAGAGGATCTACCACACTTGAAGCCAGGTGGTGGCATTCTGG
 TAATTGAAAGCCTCCTGGATGAAGACAGGCGAGGTCTCTGCTCACGAGCTCTACTCTCTGAACATGCT
 TGTGCAGACGGAAGGGCAGGAGAGGACCCCACTACCACATGCTCCTCTCTTCTGCTGGCTTCAGA
 GACTTCCAGTTTAAGAAAACAGGAGCCATTTATGATGCCATTTTAGCCAGGAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG229847 representing NM_001171039
Red=Cloning site Green=Tags(s)

MGSSSEDQAYRLLNDYANGFMVSQVLFACELGVFDLLAEAPGPLDVAAVAAGVSRASAHGTELLLDICVSL
 KLLKVEYTRGGKAFYRNTLSSDYLTTSPTSQCSMLKYMGRYSYRCWGHADAVREGRNQYLETFGVPAE
 ELFTAIYRSEGERLQFMQALQEVWSVNGRSVLTAFDLSVFLMCDLGGDFFKDPLPEADLYILARVLHDW
 ADGKCSHLLERIYHTCKPGGGILVIESLLDEDRRGPPLL TQLYSLNMLVQTEGQERTPTHYHMLLSSAGFR
 DFQFKKTGAIYDAILARK

TRTRPLE - GFP Tag - V

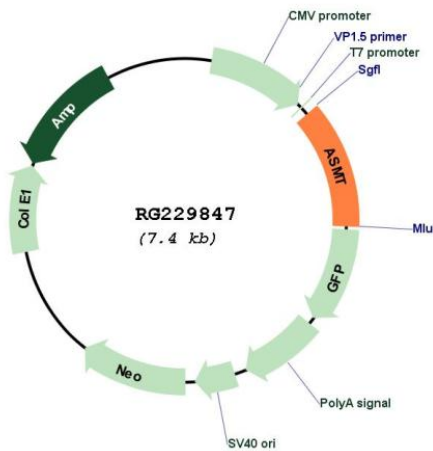
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001171039

ORF Size: 894 bp

OTI Disclaimer:	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:	<ol style="list-style-type: none">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_001171039.1 , NP_001164510.1
RefSeq Size:	1068 bp
RefSeq ORF:	897 bp
Locus ID:	438
UniProt ID:	P46597
Cytogenetics:	X;Y
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Tryptophan metabolism
Gene Summary:	This gene belongs to the methyltransferase superfamily, and is located in the pseudoautosomal region (PAR) at the end of the short arms of the X and Y chromosomes. The encoded enzyme catalyzes the final reaction in the synthesis of melatonin, and is abundant in the pineal gland. Alternatively spliced transcript variants have been noted for this gene. [provided by RefSeq, Jan 2010]