

Product datasheet for **RG217101**

ASMT (NM_004043) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	ASMT (NM_004043) 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:	>RG217101 representing NM_004043 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGATCCTCAGAGGACCAGGCCTATCGCCTCCTTAATGACTACGCCAACGGCTTCATGGTGTCCAGG
TTCTCTTCGCGCCTGCGAGCTGGGCGTGTGGACCTTCTCGCCGAGGCCCCAGGGCCCCGGACGTGGC
GGCAGTGGCTGCAGGTGTGAGGGCCAGCGCCCATGGGACAGAGCTCCTGCTGGACATCTGTGTGCCCTG
AAGCTGCTGAAAGTGGAGACGAGGGGAGGAAAAGCTTTCTATCGAAACACAGAGCTGTCCAGCGACTACC
TGACCACGGTCAGCCGACGTACAATGCAGCATGCTGAAGTACATGGGACGACCAGCTACCGGTGCTG
GGCCACCTGGCAGACGCGTGAGAGAAGGAAGCAACAGTACCTGGAGACGTTTGGCGTTCGCCGCTGAA
GAGCTTTTACGGCCATCTACAGGTCAGGGGCGAGCGGCTACAGTTCATGCAAGCTCTGCAAGGAGTCT
GGAGCGTCAACGGGAGAAGCGTGTGACCGCCTTTGACCTGTGAGTGTCCCACTTATGTGTGACCTTGG
TGGGACACGGATAAAGCTGGAACCATCATTCTCAGCAAATATCGCAAGGACAGAAAACCAACACCGC
GTGTTCTCACTCATAGGTGGGCTGGAGCTTGCTAAGGAATGCATGTCTGTACCCTGGATGTAAGA
TCACCGTTTTTGACATCCAGAAGTGGTGTGGACGGCAAAGCAGCACTTCTCATTCCAGGAGGAAGAACA
GATTGACTCCAGGAAGGGGATTTCTCAAAGACCCTCTCCGGAAGCTGATCTGTACATCCTGGCCAGG
GTCCTCCATGACTGGGACAGCGAAAGTCTCACACCTGCTGGAGAGGATCTACCACACTTGAAGCCAG
GTGGTGGCATTCTGGTAATTGAAAGCCTCTGGATGAAGACAGGCGAGGTCTCTGCTCACGACGCTCTA
CTCTCTGAACATGCTTGTGCAGACGGAAGGCGAGGAGGACCCCACTACCATGCTCCTCTCT
TCTGCTGGCTCAGAGACTTCCAGTTTAAGAAAACAGGAGCCATTTATGATGCCATTTTAGCCAGGAAA

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >RG217101 representing NM_004043
 Red=Cloning site Green=Tags(s)

MGSSSEQAYRLLNDYANGFMVSQVLFACELGVFDLLAEAPGPLDVAAVAAGVRASAHGTELLLDICVSL
 KLLKVETRGGKAFYRNTLSSDYLTTSPTSQCSSLKMYMGRTSYRCWGHADAVREGRNQYLETFGVPAE
 ELFTAIYRSEGERLQFMQALQEVWSVNGRSVLTAFDLSVFLMCDLGGTRIKLETIILSKLSQGQKTKHR
 VFSLIGGAGALAKECMSLYPGCKITVFDIPEVVTAKQHF SFQEEEQIDFQEGDFFKDPLPEADLYILAR
 VLHDWADGKCSHLLERIYHTCKPGGGILVIESLLDEDRRGPLLTQLYSLNMLVQTEGQERTPTHYHMLLS
 SAGFRDFQFKKTGAIYDAILARK

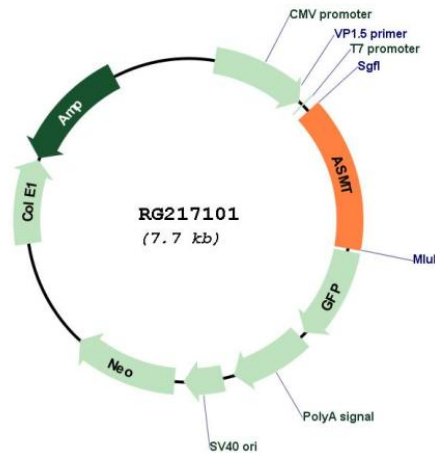
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_004043

ORF Size:	1119 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_004043.1 , NP_004034.1
RefSeq Size:	1370 bp
RefSeq ORF:	1122 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]