

## Product datasheet for **RC229847**

### ASMT (NM\_001171039) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** ASMT (NM\_001171039) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** ASMT  
**Synonyms:** ASMTY; HIOMT; HIOMTY  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC229847 representing NM\_001171039  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGGATCCTCAGAGGACCAGGCCTATCGCCTCCTTAATGACTACGCCAACGGCTTCATGGTGTCCCAGG  
TTCTCTTCGCCGCTGCGAGCTGGGCGTGTGGACCTTCTCGCCGAGGCCCCAGGGCCCCGACGTGGC  
GGCAGTGGCTGCAGGTGTGAGGGCCAGGCCCATGGGACAGAGCTCCTGCTGGACATCTGTGTGCCCTG  
AAGCTGCTGAAAGTGGAGACGAGGGGAGGAAAAGCTTTCTATCGAAACACAGAGCTGCCAGCGACTACC  
TGACCACGGTCAGCCGACGTCACAATGCAGCATGCTGAAGTACATGGGCAGGACCAGCTACCGGTGCTG  
GGGCCACCTGGCAGACGCCGTGAGAGAAGGAAGGAACAGTACCTGGAGACGTTTGGCGTCCCGCTGAA  
GAGCTTTTACGGCCATCTACAGGTCCGAGGGCGAGCGGCTACAGTTCATGCAAGCTCTGCAGGAGGTCT  
GGAGCGTCAACGGGAGAAGCGTGCTGACCGCCTTTGACCTGTGAGTGTCCCACTTATGTGTGACCTTGG  
TGGGATTTCTCAAAGACCCTTCCGGAAGCTGATCTGTACATCCTGGCCAGGGTCTCCATGACTGG  
GCAGATGAAAAGTGTCTCACACCTGCTGGAGAGGATCTACCACACTGCAAGCCAGGTGGTGGCATTCTGG  
TAATTGAAAGCCTCCTGGATGAAGACAGGCGAGGTCTCTGCTCACGCAGCTCTACTCTGAACATGCT  
TGTGCAGACGGAAGGGCAGGAGAGGCCACCCACCACTACCACATGCTCCTCTCTTCTGCTGGCTTCAGA  
GACTTCCAGTTTAAGAAAACAGGAGCCATTTATGATGCCATTTTAGCCAGGAAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001171039.1</a> , <a href="#">NP_001164510.1</a>
<b>RefSeq ORF:</b>	897 bp
<b>Locus ID:</b>	438
<b>UniProt ID:</b>	<a href="#">P46597</a>
<b>Cytogenetics:</b>	X;Y
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Metabolic pathways, Tryptophan metabolism
<b>MW:</b>	33.6 kDa
<b>Gene Summary:</b>	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]