

## Product datasheet for **SC328485**

### ASMT (NM\_001171039) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ASMT (NM_001171039) Human Untagged Clone
Tag:	Tag Free
Symbol:	ASMT
Synonyms:	ASMTY; HIOMT; HIOMTY
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001171039, the custom clone sequence may differ by one or more nucleotides ATGGGATCCTCAGAGGACCAGGCCTATCGCCTCCTTAATGACTACGCCAACGGCTTCATG GTGTCCCAGGTTCTCTTCGCCGCTGCGAGCTGGGCGTGTGACCTTCTCGCCGAGGCC CCAGGGCCCTGGACGTGGCGGAGTGGCTGCAGGTGTGAGGGCCAGCGCCCATGGGACA GAGCTCCTGCTGGACATCTGTGTGTCCCTGAAGCTGCTGAAAGTGGAGACGAGGGGAGGA AAAGCTTCTATCGAAACACAGAGCTGTCCAGCGACTACCTGACCACGGTCAGCCCGACG TCACAATGCAGCATGCTGAAGTACATGGGCAGGACCAGCTACCGGTGCTGGGGCCACCTG GCAGACGCCGTGAGAGAAGGAAGCAACAGTACCTGGAGACGTTTGGCGTTCCCCTGAA GAGCTTTTACGGCCATCTACAGGTCCGAGGGCGAGCGGCTACAGTTCATGCAAGCTCTG CAGGAGGTCTGGAGCGTCAACGGGAGAAGCGTGTGACCGCCTTTGACCTGTCAAGTCTG CCACTTATGTGTGACCTTGGTGGGATTCTTCAAAGACCTCTCCGGAAGCTGATCTG TACATCCTGGCCAGGGTCTCCATGACTGGGCAGACGAAAGTGTCTCACCTGTGAGG AGGATCTACCACACTTGAAGCCAGGTGGTGGCATTCTGGTAATTGAAAGCCTCCTGGAT GAAGACAGGCGAGGTCTCTGCTCACGCAGCTCTACTCTGAACATGCTTGTGCAGACG GAAGGGCAGGAGAGGACCCCACTACCACATGCTCCTCTCTGCTGGCTTCAGA GACTTCCAGTTTAAGAAAACAGGAGCCATTTATGATGCCATTTTAGCCAGGAAATAA
Restriction Sites:	Please inquire
ACCN:	NM_001171039
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).



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<b>OTI Annotation:</b>	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
<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>	<u><a href="#">NM_001171039.1</a></u> , <u><a href="#">NP_001164510.1</a></u>
<b>RefSeq Size:</b>	1068 bp
<b>RefSeq ORF:</b>	897 bp
<b>Locus ID:</b>	438
<b>UniProt ID:</b>	<u><a href="#">P46597</a></u>
<b>Cytogenetics:</b>	X;Y
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Metabolic pathways, Tryptophan metabolism
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (3) is lacking two consecutive in-frame coding exons compared to variant 1. This results in a shorter isoform (2) missing an internal protein segment compared to isoform 1.</p>