

Product datasheet for SC303425

ASMT (NM_004043) Human Untagged Clone

Product data:

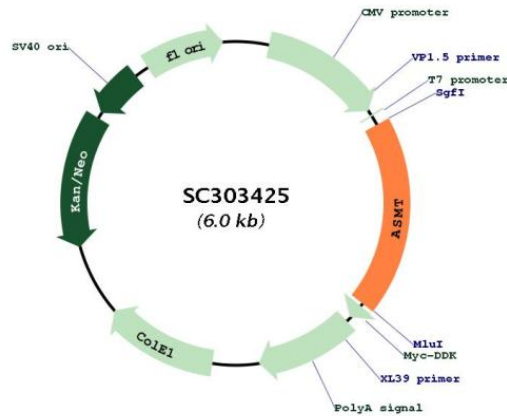
Product Type:	Expression Plasmids
Product Name:	ASMT (NM_004043) Human Untagged Clone
Tag:	Tag Free
Symbol:	ASMT
Synonyms:	ASMTY; HIOMT; HIOMTY
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC303425 representing NM_004043. Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGATCCTCAGAGGACCAGGCCATCGCCTCCTTAATGACTACGCCAACGGCTTCATGGTGTCCAG
GTTCTCTTCGCCGCTGCGAGCTGGGCGTGTGGTACCTTCTCGCCGAGGCCCCAGGGCCCTGGACGTG
GCGGCAGTGGCTGCAGGTGTGAGGGCCAGCGCCATGGGACAGAGCTCCTGCTGGACATCTGTGTGCC
CTGAAGCTGCTGAAAGTGGAGACGAGGGGAGGAAAAGCTTCTATCGAAACACAGAGCTGCCAGCGAC
TACCTGACCACGGTCAGCCGACGTCACAATGCAGCATGCTGAAGTACATGGGCAGGACCAGCTACCGG
TGCTGGGGCCACCTGGCAGACGCCGTGAGAGAAGGAAGGAACCAGTACCTGGAGACGTTTGGCGTCCC
GCTGAAGAGCTTTTTACGGCCATCTACAGTCCGAGGGCGAGCGGCTACAGTTTATGCAAGCTCTGCAG
GAGGTCTGGAGCGTCAACGGGAGAAGCGTGTGACCGCCTTTGACCTGTGAGTGTCCCACTTATGTGT
GACCTTGGTGGGACATGGATAAAGCTGGAAACCATCATTCTCAGCAAATATCGCAAGGACAGAAAACC
AAACACCGCGTGTCTCACTCATAGGTGGGGCTGGAGCTCTGGCTAAGGAATGCATGTCTGTACCCCT
GGATGTAAGATCACCGTTTTTGGACATCCAGAAGTGGTGTGGACGGCAAAGCAGCACTTCTCATTCCAG
GAGGAAGAACAGATTGACTTCCAGGAAGGGATTTCTTCAAAGACCCTCTCCGGAAGCTGATCTGTAC
ATCCTGGCCAGGTCCTCCATGACTGGGACAGCGAAAGTGTCTCACACCTGCTGGAGAGGATCTACCAC
ACTTGCAAGCCAGGTGGTGGCATTCTGGTAATTGAAAGCCTCTGGATGAAGACAGGCGAGTCTCTG
CTCACGACGCTACTCTCTGAACATGCTTGTGCAGACGGAAGGGCAGGAGAGGACCCCACTACTAC
CACATGCTCCTCTCTTCTGCTGGCTTCAGAGACTTCCAGTTTAAGAAAACAGGAGCCATTTATGATGCC
ATTTTAGCCAGGAAATAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



[View online »](#)

Plasmid Map:


ACCN: NM_004043

Insert Size: 1122 bp

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).

OTI Annotation: 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.

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_004043.2](#)

RefSeq Size: 1371 bp

RefSeq ORF: 1122 bp

Locus ID: 438

UniProt ID: [P46597](#)

Cytogenetics:	X;Y
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Tryptophan metabolism
MW:	41.7 kDa
Gene Summary:	<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 (2) differs at the 5' end compared to variant 1. Variants 1 and 2 encode the same isoform (1).</p>