

Product datasheet for SC311459

CSKMT (NM_001043229) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CSKMT (NM_001043229) Human Untagged Clone
Tag:	Tag Free
Symbol:	CSKMT
Synonyms:	CS-KMT; METTL12; U99HG
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC311459 representing NM_001043229. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
 ATGGCCGCGCTGCGTCGAATGCTCCACTTGCCGAGCCTGATGATGGGGACGTGCCGCCCTTTGCGGGC
 TCACTGGCTGATAGTTGCCTGGCGGACCCTGTCTCTGGGATCGGCTGCATGCCAGCCTCGTTTGGGC
 ACTGTCCCCACCTTCGACTGGTTCTTTGGATACGACGAAGTCCAGGGGCTCCTACTGCCATTGCTGCAG
 GAGGCACAGGCTGCCAGTCTCTGCGAGTGTGGATGTGGGCTGTGGGACTTCAGCCTATGTACAGGC
 CTCTACACCAATCTCCACACCCAGTGGATGTGCTGGGGTGGACTTTTCTCCTGTGGCTGTGGCCAC
 ATGAATAGCCTCCTGGAGGGTGGCCAGGCCAACACCTCTATGCCCTGGACACCCTGCCTCAAGCCTC
 CACTTCATGCACGCCGATGCTCAGAACCTGGGGGCTGTGGCTTCTTCAGGCTCTTTCCAACCTACTGCTG
 GACAAAGGCACATGGGATGCTGTTGCCCGGGAGGTCTGCCTAGGGCTTACCAGTCTCTATCAGAATGC
 TTGAGGGTTCTAAACCCTCAGGGGACCCTGATTCAATTCTCAGATGAGGACCCTGATGTGCGACTGCC
 TGCTTGAACAAGGGTCTATGGCTGGACTGTGACTGTGAGGAGCTAGGCCCGTTCAGGGGCATCACC
 TACTTTGCTTACTTGATTCAAGGCTCTCATTA
 ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:	SgfI-MluI
ACCN:	NM_001043229
Insert Size:	723 bp


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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:	<u>NM_001043229.1</u>
RefSeq Size:	1382 bp
RefSeq ORF:	723 bp
Locus ID:	751071
UniProt ID:	<u>A8MUP2</u>
Cytogenetics:	11q12.3
MW:	25.9 kDa
Gene Summary:	Protein-lysine methyltransferase that selectively trimethylates citrate synthase (CS) in mitochondria (PubMed:28391595, PubMed:28887308). Seems to conduct trimethylation in a highly distributive manner rather than in a processive manner, and thus introduces a single methyl group per binding event (PubMed:28887308).[UniProtKB/Swiss-Prot Function]