

Product datasheet for **MR207663**

Shmt1 (NM_009171) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Shmt1 (NM_009171) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Shmt1
Synonyms:	A1324848; A1385541; C81125; mshmt; mshmt1; mshmt2; Shmt
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207663 representing NM_009171
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCAGACAGGGATGCCACCCTGTGGCTTCTCATGAGAAGATGTTGTCGAGCCCTCAAGGACAGTG
 ATGCCAGGTTTACAGCATCATTAAAAAGGAGAGCAACCGGCAGAGGGTCGGATTAGAGCTGATTGCCTC
 GGAGAATTTGCCAGCCGAGCTGTGTTGGAGGCCCTGGGATCTTGCTTAAATAACAAATACTCTGAGGGA
 TATCCAGGCCAAAGGTATTATGGCGGGACCGAGTTCATCGATGAGCTGGAGATGCTGTGTCAGAAGCGTG
 CATTACAGGCCTACCATCTGGATCCTCAGTGTGGGGTGTCAATGTCCAGCCTTATTAGGCTCCCTGC
 AAACCTTGTGTATACTGCCCTGGTAGAGCCTCATGGGCGAATCATGGGCTTGGACCTGCCAGACGGT
 GGCATCTGACCCATGGCTTATGACAGACAAGAAGAAAATCTCTGCCACATCTATCTTCTTTGAATCCA
 TGCCCTTAAGGTGTACCCAGAGACTGGGTACATCAACTATGACCAGCTGGAGGAGAATGCCAGCCTCTT
 CCACCCGAAGCTGATCATCGCAGGGACCGAGCTGCTACTCCGGAACCTGGACTACGCACGGCTGCGGAAG
 ATTGCGGATGATAATGGGGCGTATCTCATGGCAGACATGGCACATATCAGTGGGCTCGTGGCAGCTGGGG
 TGGTGCCTCCCCCTTGAACACTGCCATGTAGTGACCACTACAACCCACAAGACCTGAGAGGCTGCCG
 TGCTGGTATGATTTCTACAGAAAGGTGTGCGCAGTGTGGATCCCAAGACTGGCAAAGAGACTTACTAT
 GAACTGGAGTCCCTCATCAACTCTGCCGTGTTCCAGGCCCTCAGGGGGTCTCACAACCATGCCATTG
 CTGGTGTGCTGTGGCCCTGAAGCAAGCCATGACTACAGAATCAAAAATCTACCAGCTCCAGGTGTTGGC
 CAACTGCAGGGCTCTGTCTGATGCACTCACAGAGCTAGGCTACAAAATAGTCACAGGTGGCTCTGATAAT
 CACTTGATCCTAATGGATCTGCGTTCTAAGGGTACTGATGGTGAAGGGCTGAGAAGGTACTAGAAGCCT
 GTTCTATCGCCTGCAACAAGAATACCTGCCAGGTGACAAGAGCGCTTACGGCCAGTGGACTGCCAGT
 GGGGACTCCAGCATTGACATCCCGAGGACTTTTGGGAAGAAGACTTCCAAAAGTAGCACACTTTATCCAC
 AGGGGGATAGAGTTGACTGCGAGATTCAGAGCCACATGGCCACGAAGGCCACACTGAAAGAGTTCAAAG
 AGAAGCTGGCAGGAGATGAGAAGATCCAGAGTGTGTGGCAACTCTCCGGGAAGAAGTGGAGAACTTTGC
 TTCCAACCTTCTACTACCTGGCCTTCTGACTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207663 representing NM_009171
 Red=Cloning site Green=Tags(s)

MADRDATLWASHEKMLSQPLKSDAEVYSIIKKESNRQRVGLEL IASENFASRAVLEALGSCLNNKYSEG
 YPGQRYGGTEF IDELEMLCQKRALQAYHLDPQCWGVNVQPYSGSPANF AVYTALVEPHGRIMGLDLPDG
 GHLTHGFMTDKKISATSIFFESMPYKVPETGYINYDQLEENASLFHPKLI IAGTSCYSRNLDYARLRK
 IADDNGAYLMADMAHISGLVAAGVVPSPFEHCHVTTTTHTKTLRGCRAGMIFYRKGVRSVDPKGTGKETY
 ELESINSVFPGLQGGPHNHAIAGVAVALKQAMTTEFKIYQLQVLANCRALSDALTELYKIVTGGSDN
 HLILMDLRSKGTDGGRAEKVLEACSIACNKNTCPGDKSALRPSGLRLGTPALTSRGLLEEDFQKVAHFIIH
 RGIELTLQIQSHMATKATLKEFKEKLAGDEKIQSAVATLREEVENFASNFSLPGLPDF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9034_d06.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_009171

ORF Size: 1434 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:

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_009171.2](#), [NP_033197.2](#)
RefSeq Size: 2074 bp

RefSeq ORF: 1437 bp

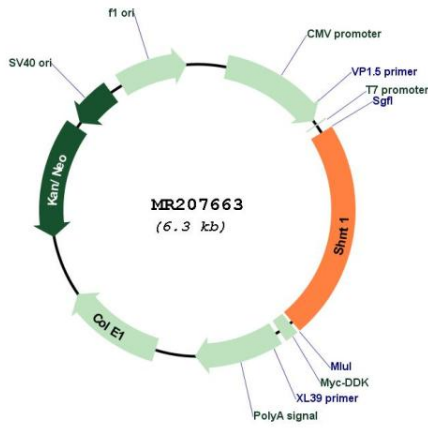
Locus ID: 20425

UniProt ID: [P50431](#)
Cytogenetics: 11 B2

MW: 53.1 kDa

Gene Summary: Interconversion of serine and glycine.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR207663