

Product datasheet for **MG207663**

Shmt1 (NM_009171) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Shmt1 (NM_009171) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Shmt1
Synonyms:	AI324848; AI385541; C81125; mshmt; mshmt1; mshmt2; Shmt
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MG207663 representing NM_009171
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCAGACAGGGATGCCACCCTGTGGCTTCTCATGAGAAGATGTTGTCGCAGCCCTCAAGACAGTG
 ATGCCAGGTTTACAGCATCATTAAAAAGGAGAGCAACCGGCAGAGGGTGGATTAGAGCTGATTGCCTC
 GGAGAATTTGCCAGCCGAGCTGTGTTGGAGGCCCTGGGATCTTGCTTAAATAACAAATACTCTGAGGGA
 TATCCAGGCCAAAGGTATTATGGCGGGACCGAGTTCATCGATGAGCTGGAGATGCTGTGTGAGAAGCGTG
 CATTACAGGCCTACCATCTGGATCCTCAGTGTGGGTGTCAATGTCCAGCCTTATTCAGGCTCCCTGC
 AAACCTTGTGTATACTGCCCTGGTAGAGCCTCATGGGCGAATCATGGCTTGGACCTGCCAGACGGT
 GGCCATCTGACCCATGGCTTCATGACAGACAAGAAGAAAATCTCTGCCACATCTATCTTCTTGAATCCA
 TGCCTTATAAGGTGTACCCAGAGACTGGGTACATCAACTATGACCAGCTGGAGGAGAATGCCAGCCTCTT
 CCACCCGAAGCTGATCATCGCAGGGACCGACTGCTACTCCGGAACCTGGACTACGCACGGCTGCGGAAG
 ATTGCGGATGATAATGGGGCGTATCTCATGGCAGACATGGCACATATCAGTGGGCTCGTGGCAGCTGGGG
 TGGTGCCCTCCCTTTGAACACTGCCATGTAGTGACCACTACAACCCACAAGACCTGAGAGGCTGCCG
 TGCTGGTATGATATTCTACAGAAAGGTGTGCGCAGTGTGGATCCCAAGACTGGCAAAGAGACTTACTAT
 GAAGTGGAGTCCCTCATCAACTCTGCCGTGTTCCCGGGCTTCAGGGGGTCTCACAACCATGCCATTG
 CTGGTGTGTGTGGCCCTGAAGCAAGCCATGACTACAGAATCAAAAATCTACCAGCTCCAGGTGTTGGC
 CAACTGCAGGGCTCTGTCTGATGCACTCACAGAGCTAGGCTACAAAATAGTCACAGGTGGCTCTGATAAT
 CACTTGATCCTAATGGATCTGCGTTCTAAGGGTACTGATGGTGAAGGGCTGAGAAGGTACTAGAAGCCT
 GTTCTATCGCCTGCAACAAGAATACCTGCCAGGTGACAAGAGTGCCTTACGGCCAGTGGACTGCGACT
 GGGGACTCCAGCATTGACATCCCGAGGACTTTTGAAGAAGACTTCCAAAAAGTAGCACACTTTATCCAC
 AGGGGGATAGAGTTGACTGACACTGCAGATTCAGAGCCACATGGCCACGAAGGCCACACTGAAAGAGTTCAAAG
 AGAAGCTGGCAGGAGATGAGAAGATCCAGAGTGTGTGGCAACTCTCCGGGAAGAAGTGGAGAACTTTGC
 TTCCAACCTTCTACTACCTGGCCTTCTGACTTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG207663 representing NM_009171
 Red=Cloning site Green=Tags(s)

MADRDATLWASHEKMLSQPLKSDAEVYSIIKKESNRQRVGLEL IASENFASRAVLEALGSCLNNKYSEG
 YPGQRYGGTEF IDELEMLCQKRALQAYHLDPQCWGVNVQPYSGSPANF AVYTALVEPHGRIMGLDLPDG
 GHLTHGFMTDKKISATSIFFESMPYKVPETGYINYDQLEENASLFHPKLI IAGTSCYSRNLDYARLRK
 IADDNGAYLMADMAHISGLVAAGVVPSPFEHCHVVTTTTHKTLRGCRAGMIFYRKGVRSVDPKTKETYY
 ELESINSAVFPLQGGPHNHAIAGVAVALKQAMTTEFKIYQLQVLANCRALSDALTELGKIVTGGSDN
 HLILMDLRSKGTDGGRAEKVLEACSIACNKNTCPGDKSALRPSGLRLGTPALTSRGLLEEDFQKVAHFIIH
 RGIELTLQIQSHMATKATLKEFKEKLAGDEKIQSAVATLREEVENFASNFSPLPLPDF

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

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

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