

Product datasheet for **RR203948**

Shmt1 (NM_001047842) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Shmt1 (NM_001047842) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Shmt1
Synonyms:	LRRGT00032; mShmt; Shmt
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR203948 representing NM_001047842
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCTGACTGTGGAGCATGGGTGCAGATATTCCTGCTTCCAGTTGAGAAGTCCGATCCTGTGTCGA
 GGCTGGACCCGTGACAGGATGGGACATGTGAAAGGGCCAGTTCAGATGATCCAGAAGTGCAGAATCTCCAC
 GACACAGGGCAACAACAGGATAACCCAGAGGAGTCTGGATACACTCCAGATAGTCTACAAAGTCTTC
 TCACTGTGGAACAGCCAAAATCTGCTAGTTCAGTCCATGAAACTGGCTGCCTCAGCAGTCTCAATCTGGT
 TCTGGGGTTCTTGGAGGATTCCTAGAGAGCTGTGGTTTTAGTTTACATTGGAATCTTAAGGAAGTTGG
 ACTTAGCACCAGCCCAGCAACAGCACAAAATTGCCAGCAAGAGTAAAAGGCAAGCAGGCAGAAAAGCAA
 AGCTTCCTTCTTAAGTCTTTTATCTGGGTTGCCATCAGAAGCTACAGCTCCTTTTGTGAGTTTGTG
 CCAAGTTTCTGCTCCGAGCTCGGGCGAATGGCGCTGGGCGGCTGAGGGCGGGCTCTACCTGGACCCGCC
 CACTGATTGGGCGCTCTAGGGTGGGGCGGGCCAGCCGCGCTGTGCAATGGCAGAGGGGATGCCACC
 GTGTGGGCTCTCATGAGAAGATGTTGACACAGCCCTGAAGGAGAGCGATGCTGAGTTTACAGCATCA
 TAAAAAGGAGAGCAACCGGCAGAGGGTCGGATTGGAGCTGATTGCCTCGGAGAAGTTTGCAGCAGAGC
 TGTGTTGGAGGCCCTAGGATCTTCTTAAATAACAAATACTCTGAGGGGTACCCAGGCCAAAGGTATTAT
 GGTGGGACTGAGTTCATCGATGAGCTGGAGACGCTGTGTGAGAAGCGTGCATTACAGGCCTACCATCTGG
 ATCCTCAGTGTGGGCGCTCAATGTCCAGCCTTATTCAGGCTCCCCTGCAAACTTTGCTGTGATACTGC
 CCTAGTAGAGCCCATGGGCGAATCATGGGTTTGGACCTGCCAGATGGTGGCCATCTGACTCATGGCTTC
 ATGACAGACAAGAAGAAAATCTCTGCCACCTCTATCTTCTTTGAATCCATGCCTTATAAGGTATACCCAG
 AACTGGGTACATCAACTATGACCAGCTAGAGGAGAATGCCAGCCTCTTCCACCCGAAGCTGATCATTGC
 AGGGACCAGCTGCTACTCCCGAACCTGGACTATGCGCGGCTGCGAAAGATTGCGGATGATAATGGGGCA
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 ACTGTCATGTAGTAACCACTACAACCCACAAGACCCTGAGAGGCTGCCGTGCTGGTATGATATTCTACAG
 AAAGGGTGTGCGCAGTGTGATCCCAAGACTGGCGAAGAGACTTACTATGAACTGGAGTCCCTCATCAAC
 TCGGCCGTGTTCCAGGCCTGCAGGGCGGCCCTCACACCATGCCATTGCTGGTGTGCTGTGGCCCTGA
 AGCAAGCCATGACTACAGAATTCAAAATCTACCAGCTCCAGGTGTGGCCAAGTGCAGGGCTCTGTCTGA
 TGCACTCACAGAGCTAGGCTACAAAATAGTACAGGTGGCTCTGATAATCACTTGTATCTAATGGATCTG
 CGTCTAAAGGTAAGTGTGGCGAAGGGCTGAGAAGTACTGGAAGCCTGTTCTATCGCCTGCAACAAGA
 ATACCTGCCAGGTGACAAGAGTGCCTACGGCCAGTGGCTGCGACTGGGAAGTCCAGCATTGACATC
 CCGAGGACTTTTGAAGAAGACTTCCAAAAATAGCACACTTTATCCACAGAGGGATAGAGTTGACTCTG
 CAGATTCAGAGCCACATGACCATGAGGGCCACACTGAAAGAGTTCAAGGAGAAGCTGACAGGGGATGAGA
 AGTTCCAGAGTGTGTGGCAGCTCTCCGGGAAGAAGTGGAGAATTTGCTTCAACTTCTCACTACCTGG
 ACTTCTGACTTC

ACGCGTACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR203948 representing NM_001047842
 Red=Cloning site Green=Tags(s)

MELTVEAWVQIFLLPVEKSDPVSRLDPDRMGHVKGVPVQMIQNCRISTTQGNRITQRSPGYTPDSPTKSF
 SLWNSQNLVQSMKLAASAVSIWFGSWRIPRELLVFLHWNLKEVGLSTSPSNSTNLPARVKGKQAEKQ
 SFLLLSSFIIWVAIRSYSFQVLPKFLLRANGAWAAEGGLYLDPTDWAALGVGRGQPRCAMAERDAT
 VWASHEKMLTQPLKESDAEVYSIIKKESNRQRVGLELIIASENFASRAVLEALGSCLNNKYSEGYPGQRY
 GGTEFIDELETLQKRALQAYHLDPQCWGVNVQPYSGSPANFAYVTALVEPHGRIMGLDLDPDGGHLTHGF
 MTDKKKISATSIFFESMPYKVYPDTGYINYDQLEENASLFHPKLIAGTSCYSRNLDYARLRKIADDNGA
 YLMADMAHISGLVAAGVVPSPFEHCHVVTTHKTLRGCRAGMIFYRKGVRSVDPKTGEETYYEESL
 INSAVFPGLQGPHNHAIGVAVALKQAMTTEFKIYQLQVLANCRALSDALTELGKIVTGGSDNHLILMDL
 RPKGTDGGRAEKVLEACSIACNKNTCPGDKSALRPSGLRLGTPALTSRGLLEEDFQKIAHF IHRGIELTL
 QIQSHMTMRATLKEFKEKLTGDEKQSAVAALREEVENFASNLSLPLPDF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001047842

ORF Size: 2043 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_001047842.1](#), [NP_001041307.1](#)

RefSeq Size: 2046 bp

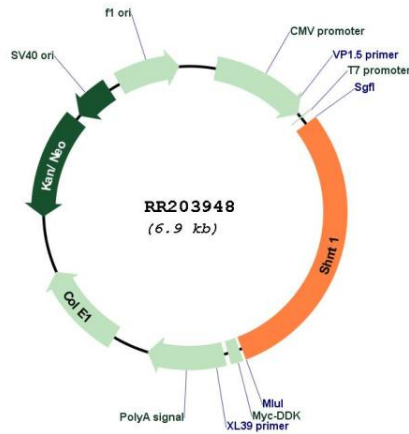
RefSeq ORF: 2046 bp

Locus ID: 287379

Cytogenetics: 10q22

MW: 75.4 kDa

Product images:



Circular map for RR203948