

Product datasheet for **MR209250**

Setd3 (BC019973) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Setd3 (BC019973) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Setd3
Synonyms:	2610102I01Rik; 2610305M23Rik; 6030490B17Rik; D12Ertd771e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR209250 representing BC019973
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGGTAAAGAAGAGTCGAGTGAAAACTCAGAAATCAGGTACTGGGGCTACAGCCACTGTGTACCAAAGG
 AAATTTTGAACCTGACAAGTGAGCTGTTGCAGAAATGTAGCAGTCCTGCACCCAGCCAGGGAAAGAATG
 GGAAGAGTACACGCAGATCCGGGCTCTGGTTGAGAAAATACGGAAGAAGCAAAAAGGTCTGTCTGTACT
 TTTGATGGGAAAAGAGAAGATTACTTCCCTGATCTAATGAAATGGGCTCTGAAAACGGGCTTCTGTCTG
 AGGGTTTTGAAATGGTTAACTTCAAAGAAGAGGGCTTTGGTTTGAGAGCAACAAGAGACATCAAGGCAGA
 AGAATTATTTTATGGGTTCCACGAAAGTTACTAATGACTGTTGAATCTGCTAAGAATTCAGTATTGGGG
 CCCCTGTATTCTAAGACCGAATTCTCCAAGCTATGGGAAACATTGCACTGGCCTTTCATCTGCTGTGCG
 AGCGAGCCAGCCCAACTCTTTCTGGCAGCCATACATTGACACCTCCCCAGTGAATATGACACCCCTCT
 CTACTTGAAGAAGAGGAAGTACGCTGTCTTCACTCAACACAAGCCATCCATGATGTCTTCAAGCAGTAT
 AAAACACAGCAGCGCAGTACGCCTATTCTATAAAGTCATCCAGACCCATCCTCATGCCAACAACTGC
 CCTTGAAGGAGTCTTCACTTACGAGGACTACAGGTGGGCGTCTCATCAGTTATGACACGGCAAAACCA
 AATTCTACAGAGGATGGTTCCCGGTGACCTTGGCTCTGATTCTTTATGGGACATGTGAATCATACC
 AATGGCCTGATCACACTGGCTATAACCTGGAAGATGACCGCTGTGAGTGTGGCTCTGCAGGACTTTC
 AGGCTGGAGATCAGATTTACATTTTATGGCACTCGGTCAAATGCAGAGTTTGTATCCACAGTGGTTT
 TTTCTTTGACAATAATCCCACGACAGAGTGAAATTAAGCTGGGCGTGAGTAAAGTGACAGGCTCTAC
 GCCATGAAGGCTGAGGTCTGGCTCGGGCTGGCATCCCAACATCCAGTGTCTTTCGCTTGCATCCACTG
 AGCCGCCCATCTCTGCCAGCTTCTAGCTTTTCTCCGAGTATTCTGCATGACCGAAGAGGAGCTGAAAGA
 GCATTTTGCTAGGGGACAGCGCCATTGACAGGATCTTCACTCTGGGGAACGCAGAGTTTCTGTGAGTGG
 GACAATGAGGTCAAACCTTGGACATTTCTGGAAGATAGAGCCTCACTTCTTTTAAAAACATATAAGCAA
 CAATTGAGGAAGATAAGATCGTCTTGAATAATCCTGACCTCTCTGTCCGGGCCACAATGGCCATCAAATT
 GCGCTTGGGTGAAAAGGAGATTTTGAATAAGCAGTGAAGAGTGGGCGCTGAACCGGGAGTACTACCGT
 AAACACATGGAGGAGAGGGCACCCTGCCCAGATACGAGGAGAGTGACCTGGGCTCTTGGAGGGTGGTG
 TGGGGGACTCAAGGCTCCCTCTGGTCTGAGAAAGTTGGAGGAGGAAGCAGGTGTGCAGGAGTCTCTGAG
 CCTCACAGAGACTGTGAGCAAGTCAAGGCTGCTGAAAATGGGCTTGTCAATGGGAAAACCTTGATCCCT
 AATGGGACCAGGTCTGAAAATGAAAGCTTAAGCCAGAAGAAAGTGAACAGTACTGGAGAAGAGTCTT
 CAGGCAGCATGGCCAAGGTGAAGGAGCGACTT

ACGCGTACGCGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209250 representing BC019973
 Red=Cloning site Green=Tags(s)

MGKKSrvKTQKSGTGATATVSPKEILNLTSELLQKSSPAPSPGKEWEEYTQIRALVEKIRKKQKGLSVT
 FDGKREDYFPDLMKWASENGASVEGFEMVNFKEEGFGLRATRDIKAEELFWVPRKLLMTVESAKNSVLG
 PLYSQDRILQAMGNIALAFHLLCERASPNFWQPYIQTLPSEYDTPLVFEEEEEVRCLQSTQAIHDFVSQY
 KNTARQYAYFYKVIQTHPHANKLPLKESFTYEDYRWAVSSVMTRQNQIPTEDGSRVTLAL IPLWDMCNHT
 NGLITTYNLEDDRCECVLQDFQAGDQIYIFYGTRSNAEFVIHSGFFFDNNSHDRVKIKLGVSKSDRLY
 AMKAEVLARAGIPTSSVFALHSTEPPISAQLLAFLRVFCMTEELKEHLLGDSIDRIFTLGNAEFVPSW
 DNEVKLWTFLEDRASLLKTYKTTIEEDKIVLKNPDLVSRATMAIKLRLGEKEILEKAVKSAAVNREYYR
 KHMEERAPLPRYEESDLGLLEGGVGD SRLPLVLRKLEEEAGVQESLSLTETVSKVKAENGLVNGENLIP
 NGRSENESSLPEESENVTGEESGSMKVKERL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9042_d12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: BC019973

ORF Size: 1782 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

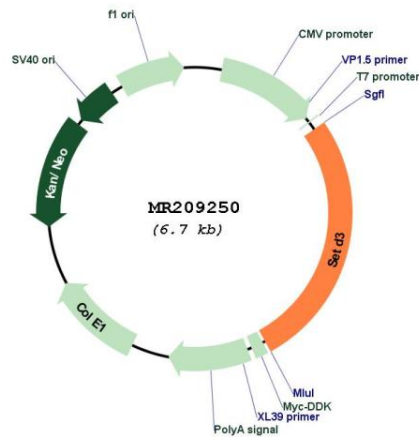
RefSeq: [BC019973.1](#)

RefSeq Size: 2477 bp

RefSeq ORF: 1784 bp

Locus ID:	52690
Cytogenetics:	12 59.23 cM
MW:	90.8 kDa
Gene Summary:	Protein-histidine N-methyltransferase that specifically mediates methylation of actin at 'His-73' (PubMed:30626964). Histidine methylation of actin is required for smooth muscle contraction of the laboring uterus during delivery (PubMed:30626964). Does not have protein-lysine N-methyltransferase activity and probably only catalyzes histidine methylation of actin (PubMed:30626964).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209250