

Product datasheet for **MR209252**

Setd3 (NM_028262) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
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)



ORF Nucleotide Sequence: >MR209252 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGGTAAGAAGAGTCGAGTGAAAACCTCAGAAATCAGGTACTGGGGCTACAGCCACTGTGTACCAAAGG
 AAATTTTGAACTGACAAGTGAGCTGTTGCAGAAATGTAGCAGTCTGCACCCAGCCAGGGAAGAATG
 GGAAGAGTACACGAGATCCGGGCTCTGGTTGAGAAAAACGGAAGAAGCAAAAAGGTCTGTCTGTTACT
 TTTGATGGGAAAAGAGAAGATTACTTCCCTGATCTAATGAAATGGGCTCTGAAAACGGGGCTTCTGTGCG
 AGGGTTTTGAAATGGTTAACTTCAAAGAAGAGGGCTTTGGTTTGAGAGCAACAAGAGACATCAAGGCAGA
 AGAATTATTTTATGGGTTCCACGAAAGTTACTAATGACTGTTGAATCTGCTAAGAATTTCAGTATTGGGG
 CCCCTGATTCTCAAGACCGAATTCTCAAGCTATGGGAAACATTGCACTGGCCTTTTCATCTGCTGTGCG
 AGCGAGCCAGCCCCAATCTTTCTGGCAGCCATACATTAGACCCCTCCCAAGTGAATATGACACCCCTCT
 CTACTTCGAAGAAGAGGAGTACGCTGTCTTCAGTCAACACAAGCCATCCATGATGTCTTCAGCCAGTAT
 AAAAAACACAGCACGCCAGTACGCTATTTCTATAAAGTCATCCAGACCCATCCTCATGCCAACAACTGC
 CCTTGAAAGGAGTCTTTCACTTACGAGGACTACAGGTGGGCGTCTCATCAGTTATGACACGGCAAAACCA
 AATTCCTACAGAGGATGGTCCCGGTGACCTTGGCTCTGATTCTTTATGGGACATGTGCAATCATACC
 AATGGCCTGATCACAATGGCTATAACCTGGAAGATGACCGCTGTGAGTGTGTGGCTCTGCAGGACTTTC
 AGGCTGGAGATCAGATTTACATTTTTTATGGCACTCGGTCAAATGCAGAGTTTGTGATCCACAGTGGTTT
 TTTCTTTGACAATAATCCACGACAGAGTGAAAATTAAGCTGGGCGTGAGTAAAAGTGACAGGCTCTAC
 GCCATGAAGGCTGAGGTCTGGCTCGGGCTGGCATCCCAACATCCAGTGTTTTTCGTTTGCATTCCACTG
 AGCCGCCCCTCTGCCCAGCTTCTAGCTTTTCTCCGAGTATTCTGCATGACCGAAGAGGAGCTGAAAGA
 GCATTTGCTAGGGGACAGCGCCATTGACAGGATCTTCACTCTGGGGAACGCAGAGTTTCTGTCTGAGCTGG
 GACAATGAGGTCAAACCTTTGGACATTTCTGGAAGATAGAGCCTCACTTCTTTAAAAACATATAAGACAA
 CAATTGAGGAAGATAAGATCGTCTTGAAAAATCCTGACCTCTCTGTCCGGGCCACAATGGCCATCAAATT
 GCGCTTGGGTGAAAAGGAGATTTTGAAAAAGCAGTGAAGAGTGGGCGGTGAACCGGGAGTACTACCGT
 AAACACATGGAGGAGAGGGCACCACTGCCAGATACGAGGAGAGTGACCTGGGGCTCTTGAGGGGTGGTG
 TGGGGGACTCAAGGCTCCCTCTGGTCTGAGAAAGTTGGAGGAGGAAGCAGGTGTGAGGAGTCTCTGAG
 CCTCACAGAGACTGTGAGCAAGTCAAGGCTGCTGAAAATGGGCTTGCAATGGGGAAAACCTTGATCCCT
 AATGGGACAGGTCTGAAAATGAAAGCTTAAGCCAGAGAAAGTAAAACGTGACTGGAGAAGAGTCTT
 CAGGCAGCATGGCCAAGGTGAAGGAGCGACTT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR209252 protein sequence
 Red=Cloning site Green=Tags(s)

MGKKSRYKTKQSGTGATATVSPKEILNLTSELLQKCSSPAPSPGKEWEEYTQIRALVEKIRKQKGLSVT
 FDGKREDYFPDLMKWASENGASVEGFEMVNFKEEGFLRATRDIKAEELFLWVPRKLLMTVESAKNSVLG
 PLYSQDRILQAMGNIALAFHLLCERASPNFWQPYIQTLPSEYDTPLYFEEEEVRCLQSTQAIHDFVSQY
 KNTARQYAYFYKVIQTHPHANKLPLKESFTYEDYRWAVSSVMTRQNQIPTEDGSRVTLAL IPLWDMCNHT
 NGLITTYGYNLEDDRCECVLQDFQAGDQIYIFYGTRSNAEFVIHSGFFFDNNSHDRVKIKLGVSKSDRLY
 AMKAEVLARAGIPTSSVFALHSTEPPI SAQLLAFLRVFCMTEEELKEHLLGDS AIDRIFTLGNAEFPVSW
 DNEVKLWTFLEDRA SLLKTYKTTIEEDKIVLKNPDL SVRATMAIKRLRLEKEILEKAVKSAAVNREYYR
 KHMEERAPLPRYEE S D LGLLEGGVDSRLPLVLRKLEEEAGVQESLSLTETVSKVKAENGLVNGENLIP
 NGTRSENE S LSP ESENVTGEESSGMAKVKERL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_028262

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.

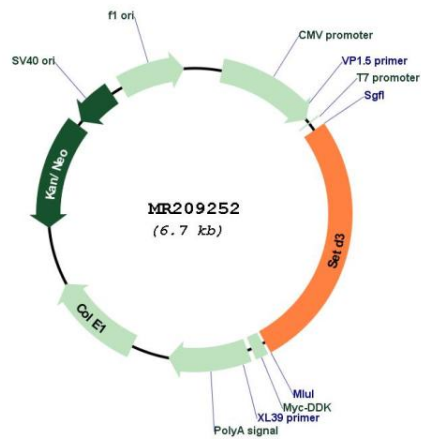
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_028262.3](#)

RefSeq Size: 2725 bp
 RefSeq ORF: 1785 bp
 Locus ID: 52690
 UniProt ID: [Q9IWC0](#)
 Cytogenetics: 12 59.23 cM
 MW: 67.2 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 MR209252