

Product datasheet for **MR205628**

Setd7 (NM_080793) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Setd7 (NM_080793) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Setd7 |
| Synonyms: | 1600028F23Rik; H3K4MT; KMT7; mKIAA1717; Set7; Set7/9 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >MR205628 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATAGCGACGATGAGGTGGTGGAGGAAGCCGTGGAAGGGCACCTGGACGATGACGGATTACCACAG
GGTTCTGCACTGTCACCTACTCCTCCACGGACAGATTTGAGGGCAACTTTGTGCATGGAGAAAAGATGG
GCGTGGGAAATCTTCTTTGACGGCAGCACCTGGAGGGATATTACGTGGACGATGCCCTGCAGGGC
CAGGGCGTTTACACCTATGTGGATGGAGGTGTTCTCAAGGCACCTATGTGGATGGAGAGCTGAATGGAC
CGGCCAGGAGTACGACTCTGACGGGAGGCTGATCTTCAAGGGACAGTACAAAGACAACAATCGACACGG
AGTGTGTTGGATCCATTACCCGGATGGAGGCAGCCTCGTCGGGGAAGTCAATGAAGATGGAGAGATGACG
GGAGAAAAGATCGCCTATGTGTACCCTGACCAGAGGACTGCGCTCTATGGGAAGTTCATTGACGGAGAGA
TGCTCGAAGGGAACTGGCCACCCTCATGGCCACCGAAGAAGGGAGGCCACACTTTGAAGTGACGTCCGG
AAGTTCGGTGTACCCTTTGATAAATCGACTTCTCCTGCATCTCCAGCGATGCTCTCCTCCAGACCCT
TATGAGTCTGAGAGGGTTATGTTGCCGACTCTCATCTCCAGTGTGGAGAAGGGCTGTTTTCCAAGG
TAGCAGTTGGACCTAATACTGTTATGTCGTTTTATAATGGAGTCCGAATTACACACCAAGAGGTTGACAG
CAGGGATTGGCCCTAAATGGGAACACTCTCCTCCAGGAGGAGACAGTCAATGATGTGCCCGAGCCC
TACAACCAGTGTCCAAGTACTGTGCTCCTTGGGACACAAGGCCAATCACTCCTTCACTCCGAAGTGGC
TCTATGACCTGTTGTCCACCCCGTTTTCGGGCCGATCAAGTGATCCGCACCCTGCGAGCTGTGGAGGC
CGAGGAAGAGCTGACCGTTGCCTACGGCTATGACCACAGCCCCCGGGGAAGAGTGGGCCTGAAGCCCC
GAGTGGTATCAAGTGGAGCTGAAGGCCTTCCAGGCCACCCAGCAGAAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTAA



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Protein Sequence: >MR205628 protein sequence
 Red=Cloning site Green=Tags(s)

MDSDEVEVEEAVEGHLDDDGLPHGFCTVTYSSTDRFEGNFVHGEKNRGRKFFFFDGGSTLEGYYVDDALQG
 QGVYTYVDGGVLQGTYYVDGELNGPAQEYDSDGRLIFKGQYKDNRRHGVCWIHYPDGGS L VGEVNDGEMT
 GEKIAYVYPDQRTALYGKFIGEMLEGLKATLMATEEGRPHFEVTSGSSVYHFDKSTSSCISDALLPDP
 YESERVYVADSLISSAGEGLFSKVAVGPNTVMSFYNGVRITHQEVDSRDWALNGNTLSLDEETVIDVPEP
 YNHVSKYCASLGHKANHSFTPNCVYDLFVHPRFGPIKICIRTLRAVEAEELTVAYGYDHSPPGKSGPEAP
 EWYQVELKAFQATQQK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_080793

ORF Size: 1101 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_080793.2](#)

RefSeq Size: 7356 bp

RefSeq ORF: 1101 bp

Locus ID: 73251

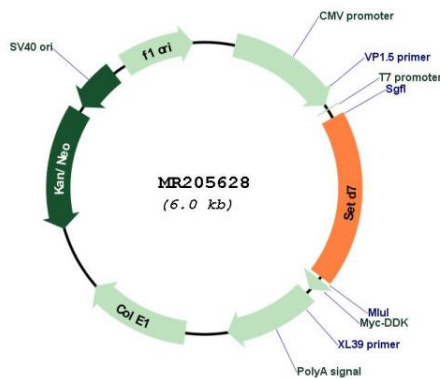
UniProt ID: [Q8VHL1](#)

Cytogenetics: 3 C

MW: 40.5 kDa

Gene Summary: Histone methyltransferase that specifically monomethylates 'Lys-4' of histone H3. H3 'Lys-4' methylation represents a specific tag for epigenetic transcriptional activation. Plays a central role in the transcriptional activation of genes such as collagenase or insulin. Recruited by IPF1/PDX-1 to the insulin promoter, leading to activate transcription. Has also methyltransferase activity toward non-histone proteins such as p53/TP53, TAF10, and possibly TAF7 by recognizing and binding the [KR]-[STA]-K in substrate proteins. Monomethylates 'Lys-189' of TAF10, leading to increase the affinity of TAF10 for RNA polymerase II. Monomethylates 'Lys-372' of p53/TP53, stabilizing p53/TP53 and increasing p53/TP53-mediated transcriptional activation.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR205628