

Product datasheet for **MG205628**

Setd7 (NM_080793) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Setd7 (NM_080793) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Setd7
Synonyms:	1600028F23Rik; H3K4MT; KMT7; mKIAA1717; Set7; Set7/9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG205628 representing NM_080793 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**C

ATGGATAGCGACGATGAGGTGGTGGAGGAAGCCGTGGAAGGGCACCTGGACGATGACGGATTACCACAG
GGTTCTGCACTGTCACCTACTCCTCCACGGACAGATTTGAGGGCAACTTTGTGCATGGAGAAAAGATGG
GCGTGGGAAATCTTCTTTGACGGCAGCACCTGGAGGGATATTACGTGGACGATGCCCTGCAGGGC
CAGGGCGTTTACACCTATGTGGATGGAGGTGTTCTCAAGGCACCTATGTGGATGGAGAGCTGAATGGAC
CGGCCAGGAGTACGACTCTGACGGGAGGCTGATCTTCAAGGGACAGTACAAAGACAACAATCGACACGG
AGTGTGTTGGATCCATTACCCGGATGGAGGCAGCCTCGTCGGGGAAGTCAATGAAGATGGAGAGATGACG
GGAGAAAAGATCGCCTATGTGTACCCTGACCAGAGGACTGCGCTCTATGGGAAGTTCATTGACGGAGAGA
TGCTCGAAGGGAACTGGCCACCCTCATGGCCACCGAAGAAGGGAGGCCACACTTTGAAGTGACGTCCGG
AAGTTCGGTGTACCCTTTGATAAATCGACTTCTCCTGCATCTCCAGCGATGCTCTCCTCCAGACCCT
TATGAGTCTGAGAGGGTTATGTTGCCGACTCTCATCTCCAGTGCTGGAGAAGGGCTGTTTTCCAAGG
TAGCAGTTGGACCTAATACTGTTATGTCGTTTTATAATGGAGTCCGAATTACACACCAAGAGGTTGACAG
CAGGGATTGGCCCTAAATGGGAACACTCTCCTCCAGGAGGAGACAGTCATTGATGTGCCGAGCCC
TACAACACGTGTCCAAGTACTGTGCTCCTTGGACACAAGGCCAATCACTCCTTCACTCCGAAGTCCG
TCTATGACCTGTTTGTCCACCCCGTTTCGGGCGGATCAAGTGATCCGCACCCTGCGAGCTGTGGAGGC
CGAGGAAGAGCTGACCGTTGCTACGGCTATGACCACAGCCCCCGGGGAAGAGTGGGCCTGAAGCCCC
GAGTGGTATCAAGTGGAGCTGAAGGCCTTCCAGGCCACCCAGCAGAAG

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205628 representing NM_080793
 Red=Cloning site Green=Tags(s)

MDSDEVVEEAVEGHLDDDGLPHGFCTVTYSSTDRFEGNFVHGEKNRGRKFFFDFDSTLEGYYVDDALQG
 QGVYTYVDGGVLQGTYYDDELNGPAQEYDSDGRLIFKQYKDNRRHGVCWIHYPDGSSLVGEVNEDEGEMT
 GEKIAYVYDPQRTALYGKFIGEMLEGLKATLMATEEGRPHFEVTSGSSVYHFDKSTSSCISDALLPDP
 YESERVYVADSLISSAGEGLFSKVAVGPNTVMSFYNGVRIHQEVDSRDWALNGNTLSLDEETVIDVPEP
 YNHVSKYCASLGHKANHSFTPNVCYDLFVHPRFGPIKICIRTLRAVEAEELTVAYGYDHSPPGKSGPEAP
 EWYQVELKAFQATQQK

TRTRPLE - GFP Tag - V

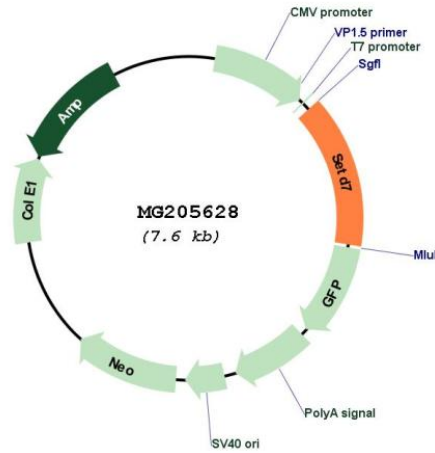
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_080793

ORF Size:	1098 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:	<ol style="list-style-type: none">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:	7357 bp
RefSeq ORF:	1101 bp
Locus ID:	73251
UniProt ID:	Q8VHL1
Cytogenetics:	3 C
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]