

Product datasheet for **MG211996**

Setd5 (BC083184) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Setd5 (BC083184) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Setd5
Synonyms:	mKIAA1757, C330007C20
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG211996 representing BC083184 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGCATTGCAATCCCTCTGGGAGTCACCACACCAGATACTTCCTACTCAGATATGGCTGCTGGATCAG
ACCCTGAATCTGTGGAGGCTAGTCCAGCAGTTAATGAGAAGAGCGTGTATTCCACTCATAATTATGGGAC
CACTCAGAGGCATGGGTGTCGAGGACTGCCTTATGCTGATCATAATTACGGAGCCCTCCTCTCCGACA
CCTCTGCTTCTCCCCGTCCAGACGATCATCCCTCGTTCGACCTGAATGGCCTGCCGTGCCCGTAG
AGGAACGCTGTGGAGACAGCCCGAAGCTGAAGGAGAGACTGTTCTACCTGGTGTCTTGTGGTCTTTC
TCAGGATGGCTTCTTCAACTGTGACAAGTGCAGGGGAATGAGCAGGGGAAGGTTATTAGACTTCAT
CGGCGGAAGCAGGACAACATATCAGGTGGGATAGCAGTGCAACAGAAAGCTGGGATGAGGAGCTTCTC
CTTCCACTGTGTTGTACACAGCAACACAGCACACACCTACAAGCATCACCTTAACTGTTAGAAGAACCA
ACCCAAGAAGCGGAAAAAGAGTCCAGAAAAGGGTCGTGCAGCACCAAGACGAAGAAGATCAAGAATTCT
CCCTCGGAAGCACAGAAATTTAGATGAAAATACCACTGAGGGCTGGGAAAAATCGGATAAGACTATGGACTG
ATCAATATGAAGAAGCTTTCACATAATCAGTACAGTGCAGATGTACAGAATGCCCTTGAGCAACATCTCCA
TTCTAACAAAGGAATTTGTGGGCAACCTGCAATTTTAGACACTATAATAAACTGAAGTGGCCTGTAAT
AATACAGTAATCGGTTCCCAAATGCAGTTACAGCTGGGAAGAGTCACTCGTGTCAAAGACCCGGAAAA
TCCTGAGGGCTGCAAGAGATTTGGCTTTGGACACTCTTATAATAGAATATCGTGGGAAAGTCATGTTACG
ACAACAATTTGAGGTCAATGGGCATTTCTTAAAAAACCATATCCCTTTGTGCTTCTACTCAAATTC
AATGGTGTAGAGATGTGTGTCGATGCTCGTACTTTCGGTAATGATGCTCGGTTTCATCAGAAGATCATGTA
CACCAAATGCAGAGGTGAGACACATGATTGCAGATGGGATGATTCACCTTGTGTATCTATGCCGTATCTGC
TATCACCAAGGATGCAGAAGTCAACATTGCATTTGATTATGAATATAGTAACTGTAATTACAAAGTGGAC
TGTGCTTGTACAAGGAAACCGGAATTCGCCATACAGAAAAGAAATCCAATGCTGCAGAATTGCCAC
TCCCACCTCCTCCTAGCTTCCACCATTGGAGCAGAGACCAGACGTAGAAAAGCACGGCGAAAGAGCT
GGAGCTGGAGCAGCAAAATGAGGTTCCAGAAGAGAATCCTGACCCGCAACCACAAGAAGTCCAGAAAAA



[View online »](#)

GTAACTGTATCCAATGAGCATGAGGAAGTTGACAATCCAGAAGAAAAACAGAAGAAGAAGAAAAAGAG
AGGCTACAGATGACCAGGAGAACTCTGCTCATAGCAGAAGGACTCGAGAAGACCGAAAGGTTGAAGCCAT
CATGCATGCTTTTGAATCTTTAGAGAAGAGAAAAGAAACGGCGGGATCAGCCTGTAGAACAGAGCAGCTCG
GACATAGAGATTACTACTAGCAGTTAGAGATAGTAGTTGGAGAAGAGACAAAACTGCAGCCCCGAGT
CTGAAGTTAGCAGCCCTGTTTCAAATGTTGCTATCCCAAGCACCCACAGAGCACTGGTGTGAATACTCG
GAGGTCCTCCCATGCTGGGGATGTAGCTGCAGAAAAGCCAATCCCTAAACCACCTCCAGCTAAGCCTTCT
AGACCCCGACCGAAAAGTAGAATTTCTCGGTACCGGACCAGTTAGCCCAAAGACTAAAACGCCAGAAGC
AGGCCATTGCACAACAGGCAGAAGTGTGCAAGCTGCCTTGAAGAAGGAGGAAGTAACAACCTCAGTAAC
TCCTCCTGAAGCTGAAAATACAGACAGTTCAAGGAGAGAACAGACAGCTAACAGGGTCTGACCCAAGTGTG
ATATCAGTTACTGGATCCCATGTCAACCGTGTGCATCTAAATACCCCAAACAAAAAGTATCTAGTTA
CAGAATGGTTAAATGACAAGGCAGAGAAGCAAGAAATGCCCTGTTGAGTGCCTTTGCGTATCACCCTGA
CCCAACTGTGTTGGCAACAACCCGAACATGCTACCAGGTCTTATTCATTCCTTAAATTTGTACCACC
CCCAAACACTACATTCGCTTTGGCTCACCTTTATGCCTGAGAGGCGTGAAGGCCCTTCTGCCTGATG
GCACATTCAGCTCCTGTAAGAAGCGCTGGATAAAGCAAGCCTTGAAGAAGGGATGACTCAGACTTCATC
TGTGCCCAAGAGACTAGAACACAGCACCTATACCAAAGTAATGAGACTAGTAATTCTTCTAGTATCTGT
AAAGACAATGCAGACTTACTGAGCCATTAAAGAAATGGAAGTCTCGCTATCTGATGGAGCAGAATATCA
CCAAGTTGCTTACGCTCTGTCTCCAGTTACACCACCCCAAGCTCAGGCTCAAAGAGTCCCAAGCT
GACCACACCTGGCCAGACTCACCCAGGAGAAGAGGAGTGTGAAAATGGATACAGCCTCATGTTCTCACCA
ATCACATCTCTTACTACTGCTAGTCGTTCCAACACTCCTCTGCAGTTTGAGCTTTGTCACCGAAAAGACC
TAGATTTGACAAAAGTGGGATCCAGACTCCAGCACTCACAGCTGCGCTGATAGGCCCTCCCTGCTTAA
CTGCAATCATCCTGACCTGGCTTCTCATCCCTCTGTTGTTCCACCTCCGAGGCTGGCTTCCAAGCAGG
AGTGGAGATGGTCTCAGACCTGTGAGAAACTCAGACCAGGCGTTTAGGACAGAGTCAATTTGATGT
ACGCTACTCCCCTTTGAATGCTATGCCTCGAGCAGATGGACTGTATAGAGGGTCTCCCTGGTGGGAGA
CAGGAAGCCTTTACATTTAGATGGAGGATATTGTTCCCTGCTGAAGGCTTTTCCAGCAGATATGAACAT
GGCTTTATGAAAGACCTCTCTCGGGATCCATGTACCTGGTGGTGAAGGACCTGTGAAGGAGTCCCAT
CTGCTCCTCAGAACCCACCGCAAAGGAAAAAGGTATCCTTGTAGAGTACCGCAAAGAAAAACAAGAAGC
TAAGGAGAATTCTGGTGGGGAAATGACTCTTCACAGAGCAAAGCAAGTCTTCAGGAGCTGGGCAAGGC
AGCAGTAACTCTGTTTCTGACACCGGTGCCATGGTGTGCAGGGATCCTCAGCCGGAACCCCGTCATCCC
CTCACAAAAAATTTCCCGTCTCATTCTCTGCATCGCATTGGAGGCGGTAAGCCCGTCAGATCCAG
GGGCACTTCTTCTCTACTGCAGACCTCAAGAAAACATCAGCAGTAGGTGGATGGTTCTACATCAGTT
GAACGACTCCGAGAAGGAGGTAGCATCCCTAAGGTTCTTGAAGCAGTGTGAGAGTTGCCAGAAGGGAG
AGCCTTCTCCAACATGGGAGAGTAACATCACAGAGAAAGAGTCAAGCCCTGCAGATGGAGAAGGCCCAGA
GCCATTGAGCTCAGCACTCTCTAAAGGAGCAACTGTTTACAGCCCTTCCAGATATAGCTACCAGCTCCTG
CAGTGTGACAGTCCACGGACAGAATCACAAAGCCTCCTCAGCAGAGTTCGTCCTCCCTTTAGAGGACATC
CCACCAATCTCCAGGATACAGTTATCGAACTACTGCACTGAGACCTGGAACCCCTCCCTCTCACGGTTC
TTCAGAATCCTCCCTCTCTTCCACGTCTACCCAGCCCTGCCACCCCTGTGTCTACAGACTCGTTGGCC
CCATTTACGGGGACTCCAGGATTAACAGCAGCCAGCCGATTCTGGAACAGCACTGGCAGCAATCTTC
CAAGGAGGAGCTGTTCTCAAGTGCTGTAGCCCTACCCACAGGGCCCTCAGACTCACCGACCTCAGA
CTCGGTTTCTCAGTCCAGCACAGGAACTCTGAGTCCACCTCTTCTCAGAAGTCTAGGTCTTCATTC
CCATCAGACTTACGGACTATCAGTCTGCCAATGCTGGGAGTCAAGTGCCTACCAGGCCTCCAGGATAT
CTGCGGTTTCCAATTCACAGCACTACCCACATCGTGGTAGTGGGGTGTACACCAGTACCAGCTCCAGCC
ACTGCAAGGGTCAAGACTCAGACAGGACTTTCC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >MG211996 representing BC083184
 Red=Cloning site Green=Tags(s)

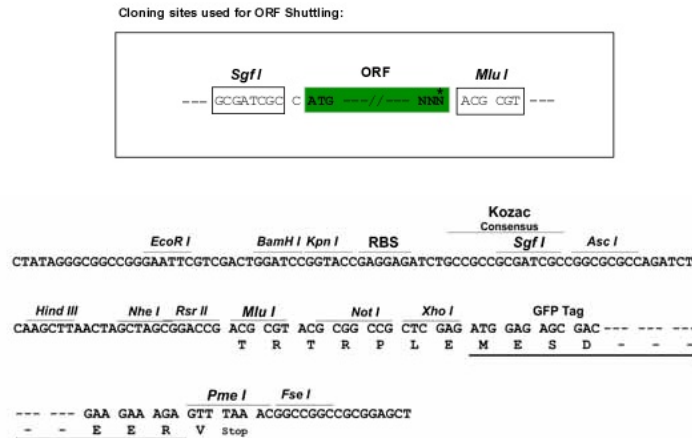
```
MSIAIPLGVTTTPDTSYSDMAAGSDPESVEASPAVNEKSVYSTHNYGTTQRHGCRGLPYADHNYGAPPPPT
PPASPPVQTIIPRSDLNGLPSPVEERCSDSPNSEGETVPTWCPCGLSQDGFLLNCDKCRGMSRGKVIKRLH
RRKQDNISGGDSSATESWDEELSPSTVLATATQHTPTSITLTVRRTKPKKRKKSPEKGRAAPKTKKIKNS
PSEAQNLDENTTEGWENRIRLWTDQYEEAFTNQYSADVQNALEQHLHSNKEFVGKPAILDITINKTELACN
NTVIGSQMQLQLGRVTRVQKHKRILRAARDLALDTLIIIEYRGKVMRLRQQFEVNGHFFKKPYPFVLFYSKF
NGVEMCVDARTFGNDARFIRRSCTPNAEVRHMIADGMIHLCIYAVSAITKDAEVTIAFDYEYSNCNYKVD
CACHKGNRNCPIQKRNPAAELPLPPPSFPTIGAETRRRKARRKELELEQQNEVPEENPDPQPQEVPEK
VTVSNEHEEVDNPEEKPEEEEEKEEATDDQENSAHSRRTREDRKEAEMHAFESLEKRKRDRDQVEQSSS
DIEITTSSEIVGEEKTAAPSEVSSPVSNAIPSTPQSTGVNTRRSSHAGDVAEEKIPKPPAKPS
RPRPKSRISRYRTSSAQLRQKQAIQQAEALSQAAL EEGSNNSVTPPEAGNTDSSGENRQLTGS DPTV
ISVTGSHVNRAASKYPKTKKYL VTEWLNDAEKQECPECLRITTDPTVLATTLNMLPGLIHSPLICTT
PKHYIRFGSPFMPERRRRLLPDGTFSSCKRWIKQALEEGMTQTSSVPQETRTQHL YQSNETSNSSSIC
KDNADLLSPLKKWKSRYLMEQNI TKLLQPLSPVTPPPSSGSKSPQLTTPGQTHPGEEECRNGYSLMFSP
ITSLTTASRSNTPLQFELCHRKDLDLTKVGFDPDSSSTHSCADRP SLLNHNHPDLASHPSVVP TSEAGFSPR
SGDGPQTL LRNSDQAFRTEFNLMYAYSPLNAMPRADGLYRGSPLVGD RKP LHL DGGYCSPAEGFSSRYEH
GFMKDL SRGSMSPGGERTCEGVPSAPQNPQRKVSLL EYRKRKQEA KENSGGNDSSQSKSKSSGAGQG
SSNSVSDTGAHGVQGSAGTPSSPHKKFSPSHSSASHLEAVSPSDSRGTSSSHCRPQENISSRWMVPTSV
ERLREGGSI PKVLRSSVRVAQKGEPSPTWESNI TEKESDPADGEGPEPLSSALSKGATVYSPSRYSYQLL
QCDSPRTESQ SLLQSSSPFRGHPTQSPGYSYRTALRPGNPPSHGSS ESSL SSTSYPSPAHPVSTDSL A
PFTGTGPGYYSQPHSGNSTG SNLPRRSCSSSAASPTPQGPSDSPTS DSVS QSSTGLSSTSFPQNSRSSF
PSDLRTISL PNAGQSAAYQASRVSAVNSQHYPHRSGSGVHQYRLQPLQGGSGVKQTQTGLS
```

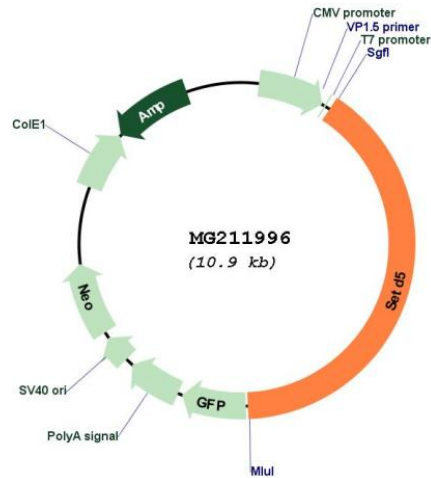
TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: BC083184

ORF Size: 4380 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: [BC083184.1](#)

RefSeq Size: 6372 bp

RefSeq ORF: 4382 bp

Locus ID: 72895

Cytogenetics: 6 E3

Gene Summary: Displays histone methyltransferase activity and monomethylates 'Lys-9' of histone H3 in vitro (PubMed:22939622). The physiological significance of this activity is unclear (Probable) (PubMed:22939622). Probable transcriptional regulator that acts via the formation of large multiprotein complexes that modify and/or remodel the chromatin. Acts as a regulator of histone acetylation during gene transcription (PubMed:27864380).[UniProtKB/Swiss-Prot Function]