

Product datasheet for **RG220767**

SETD3 (NM_199123) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SETD3 (NM_199123) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SETD3
Synonyms:	C14orf154; hSETD3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG220767 representing NM_199123 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGGTAAGAAGAGTCGAGTAAAACTCAGAAATCTGGCACTGGTGCTACAGCAACTGTGTACCAAAGG
AAATCTTGAACCTGACCAGTGAGCTGCTGCAGAAATGCAGCAGTCCGGCGCCTGGCCAGGAAAAGAGTG
GGAAGAGTATGTGCAGATCCGGACTCTGGTTGAGAAAATACGGAAAAAGCAAAAAGGTCTGTCCGTTACT
TTTGATGGAAAAAGAGAAGATTACTTTCCTGATCTAATGAAATGGGCCTCTGAAAATGGGCCTTCTGTCTG
AGGGTTTTGAAATGGTTAACTTCAAAGAAGAGGGCTTTGGTTTGAGAGCAACAAGAGATATCAAGGCAGA
AGAATTGTTTTATGGGTTCCACGAAAATTGCTAATGACTGTTGAATCTGCTAAAAATTCAGTGTTGGGG
CCCTTATATTCTCAAGACCGAATCCTTCAAGCCATGGGAAACATCGCACTGGCCTTTCATTTGCTGTGTG
AGCGAGCCAGCCCTAACTCCTTCTGGCAGCCCTATATTCAAACCTCCCCAGTGAATATGACACTCCTCT
CTACTTTGAAGAAGATGAAGTTCGGTATCTTCAGTCCACACAAGCTATACATGATGTCTTCAGCCAGTAT
AAAAACACAGCTCGACAGTACGCCTACTTCTATAAAGTCATCCAGACCCATCCTCATGCCAACAACTAC
CCTTGAAGGATTCTTTCACCTACGAGGACTACAGGTGGGCAGTCTCTTCTGTTATGACGAGGCAAAACCA
AATTCACAGAGGATGGTTCCTGCGTGACCCCTGGCTCTGATTCTTTATGGGATATGTGAACACACC
AACGGCCTGACACCAGAAGATTCTTCGCTCTTGCTGTGCGCTCTGCC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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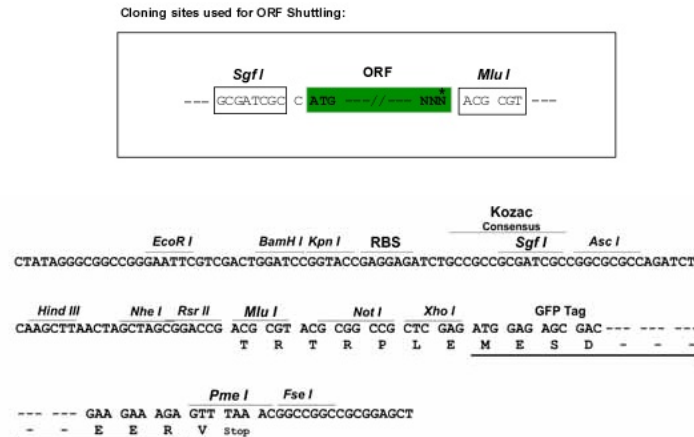
Protein Sequence: >RG220767 representing NM_199123
 Red=Cloning site Green=Tags(s)

MGKKSrvKTQKSGTGATATVSPKEILNLTSELLQKCSSPAPGPGKEWEEYVQIRTLVEKIRKKQKGLSVT
 FDGKREDYFPDLMKwasengASVEGFEMVNFKEEGFGLRATRDIKAEELFLWVPRKLLMTVESAKNSVLG
 PLYSQDRILQAMGNIALAFHLLCERASPNsFWQPYIQTLPSEYDTPLYFEEDevRYLQSTQAIHDVFSQY
 KNTARQYAYFYKVIQTHPHANKLPLKDSFTYEDYRWAVSSVMTRQNQIPTEDGSRVTLAL IPLWDMCNHT
 NGLTPEDSFALAVASA

TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_199123

ORF Size: 888 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_199123.2](#)

RefSeq Size: 1441 bp

RefSeq ORF: 891 bp

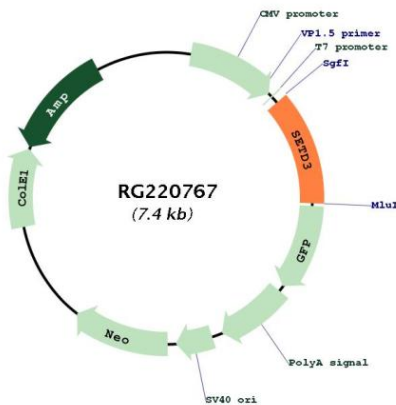
Locus ID: 84193

UniProt ID: [Q86TU7](#)

Cytogenetics: 14q32.2

Gene Summary: Protein-histidine N-methyltransferase that specifically mediates methylation of actin at 'His-73' (PubMed:30526847, PubMed:30626964, PubMed:30785395). 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, PubMed:30785395). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG220767