

Product datasheet for **RG214566**

SETD3 (NM_032233) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SETD3 (NM_032233) 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)



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ORF Nucleotide Sequence:

>RG214566 representing NM_032233
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**

ATGGGTAAAGAAGAGTCGAGTAAAACTCAGAAATCTGGCACTGGTGCTACAGCAACTGTGTACCAAAGG
 AAATCTTGAACCTGACCAGTGAGCTGCTGCAGAAATGCAGCAGTCGGCGCCTGGCCAGGAAAAGAGTG
 GGAAGAGTATGTGCAGATCCGACTCTGGTTGAGAAAATACGAAAAAGCAAAAGGTCTGTCCGTTACT
 TTTGATGGAAGAGAGAAGATTCTTCTGATCTAATGAAATGGGCCTCTGAAATGGGCTTCTGTCTG
 AGGGTTTTGAAATGGTTAACTTCAAAGAAGAGGGCTTTGGTTTGAGAGCAACAAGAGATATCAAGGCAGA
 AGAATTGTTTTTATGGTTCCACGAAATTTGCTAATGACTGTTGAATCTGCTAAAAATTCAGTGTTGGG
 CCCTTATATTCTAAGACCGAATCCTTCAAGCCATGGGAAACATCGCACTGGCCTTTCATTTGCTGTGTG
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 CTACTTTGAAGAAGATGAAGTTCGGTATCTTCAGTCCACACAAGCTATACATGATGTCTTCAGCCAGTAT
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 CCTTGAAGGATTCTTCACTTACGAGGACTACAGGTGGGCACTCTCTTCTGTTATGACGAGGCAAAACCA
 AATTCCCACAGAGGATGGTTCGCGCTGACCTGGCTCTGATTCTTTATGGGATATGTGTAAACACACC
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 CAACAGATGGAGGAAAAGGCTCCGCTTCCCAAATATGAAGAGAGTAACCTTGGGCTGTTGGAGAGCAGCG
 TGGGGGACTCGAGGCTCCCTTGGTCTTGAGAAACCTCGAGGAGGAGGCTGGAGTGCAGGATGCCTTGAA
 CATCAGAGAGGCAATCAGCAAAGCAAAGGCCACAGAAAACGGGCTTGAAACGGTGAAAACCTCTATCCCT
 AATGGGACCAGGTCCGAAATGAAAGTCTCAATCAAGAAAGTAAAGAGCAGTTGAAGACGCCAAAGGAT
 CTTCTTCAGACAGCACTGCTGGAGTTAAGGAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

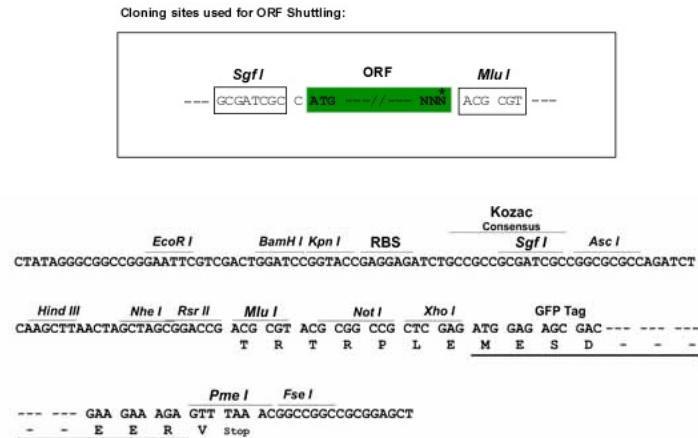
>RG214566 representing NM_032233
 Red=Cloning site Green=Tags(s)

MGKKSrvKTQKSGTGATATVSPKEILNLTSELLQKSSPAPGPGKEWEEYVQIRTLVEKIRKKQKGLSVT
 FDGKREDYFPDLMKWASENGASVEGFEMVNFKEEGFLRATRDIKAEELFLWVPRKLLMTVESAKNSVLG
 PLYSQDRILQAMGNIALAFHLLCERASPNFQPYIQTLPSEYDTPLYFEEDEVRYLQSTQAIHDFVSQY
 KNTARQYAYFYKVIQTHPHANKLPLKDSFTYEDYRWAVSSVMTRQNQIPTEDGSRVTLAL IPLWDMCNHT
 NGLITTGYNLEDDRCEVALQDFRAGEQIYIFYGTRSNAEFVIHSGFFDNNSHDRVKIKLGVSKSDRLY
 AMKAEVLARAGIPTSSVFALHTEPPI SAQLLAFLRVFCMTEELKEHLLGDSAIDRIFTLGNSEFPVSW
 DNEVKLWTFLEDRASLLKTYKTTIEEDKSVLKNHDL SVRAKMAIKLRLGEKEILEKAVKSAAVNREYYR
 QQMEEEKAPLPKYEESNLGLLESSVGDSRLPLVLRNLEEEAGVQDALNIREAISKAKATENGLVNGENSIP
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TRTRPLE – GFP Tag – V

Restriction Sites:

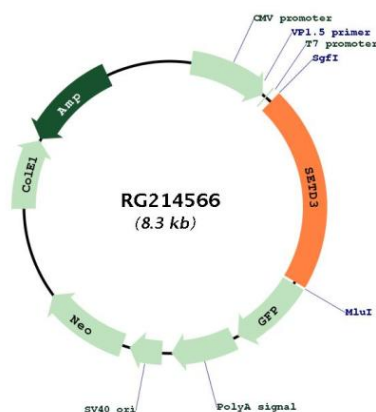
SgfI-MluI

Cloning Scheme:


ACCN:	NM_032233
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_032233.3
RefSeq Size:	2905 bp
RefSeq ORF:	1785 bp
Locus ID:	84193

UniProt ID:	<u>Q86TU7</u>
Cytogenetics:	14q32.2
Domains:	SET
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 RG214566