

Product datasheet for **SC111848**

SETD3 (NM_032233) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SETD3 (NM_032233) Human Untagged Clone
Tag:	Tag Free
Symbol:	SETD3
Synonyms:	C14orf154; hSETD3
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC111848 sequence for NM_032233 edited (data generated by NextGen Sequencing)

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ATGGGTAAAGAGTCGAGTAAAACTCAGAAATCTGGCACTGGTGCTACAGCAACTGTG
TCACCAAAGGAAATCTTGAACTGACCACTGAGCTGCTGCAGAAATGCAGCAGTCCGGCG
CCTGGCCAGGAAAAGAGTGGGAAGAGTATGTGCAGATCCGCACTCTGGTTGAGAAAATA
CGGAAAAAGCAAAAAGGTCTGTCCGTTACTTTTGATGGAAAAAGAGAAGATTACTTTCCT
GATCTAATGAAATGGGCTCTGAAAATGGGCTTCTGTGAGGGTTTGAATGGTTAAC
TTCAAAGAAGAGGCTTTGGTTTGAGAGCAACAAGAGATATCAAGGCAGAAGAATTGTTT
TTATGGGTTCCACGAAAATTGCTAATGACTGTTGAATCTGCTAAAAATTCAAGTGTGGGG
CCCTTATATTCTCAAGACCAATCCTTCAAGCCATGGGAAACATCGCACTGGCCTTTCAT
TTGCTGTGTGAGCGAGCCAGCCCTAAGCTTCTGGCAGCCCTATATTCAAACCTCCCC
AGTGAATATGACACTCTCTACTTTGAAGAAGATGAAGTTCGGTATCTTCAGTCCACA
CAAGCTATACATGATGTCTTCAGCCAGTATAAAACACAGCTCGACAGTACGCCTACTTC
TATAAAGTCATCCAGACCCATCCTCATGCCAACAACTACCTTGAAGGATTCTTTCCT
TACGAGGACTACAGGTGGGCACTCTTCTGTTATGACGAGGCAAAACCAATCCCACA
GAGGATGGTTCGCGCTGACCTGGCTCTGATTCTTTATGGGATATGTGTAACCACACC
AACGGCTGATCACTACTGGTTACAACCTGGAAGATGACCGCTGTGAGTGTGTGGCTCTG
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GGAGACGCGCTATTGATAGAATCTTACCTTGGGGAACCTCGAATTTCTGTTAGCTGG
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AAATATGAAGAGAGTAACCTTGGGCTGTTGGAGAGCAGCGTGGGGGACTCGAGGCTCCCC
CTGGTCTTGAGAAACCTCGAGGAGGAGGCTGGAGTGCAGGATGCCTTGAACATCAGAGAG
GCAATCAGCAAAGCAAAGGCCACAGAAAACGGGCTTGTAACGGTGA AAACCTCTATCCCT
AATGGGACCAGGTCCGAAAATGAAAGTCTCAATCAAGAAAGTAAAGAGCAGTTGAAGAC
GCCAAAGGATCTTCTTCAGACAGCACTGCTGGAGTTAAGGAGTAG

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Clone variation with respect to NM_032233.2

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_032233 unedited
 NATTTTGTAAACGACTCACTATTAGGGCGGCCGCAATTCGCACGAGGCGTTCCCGCTG
 CGCTAGGGGAAGCGGCAGTCAGAAAAAGGTAAGAAGAGTCGAGTAAAACTCAGAAAT
 CTGGCACTGGTGCTACAGCACTGTGTACCAAAGGAAATCTTGAACCTGACCAGTGAGC
 TGCTGCAGAAATGCAGCAGTCCGGCGCCTGGCCAGGAAAAGAGTGGAAGAGTATGTGC
 AGATCCGGAATCTGGTTGAGAAAAATACGGAAAAAGCAAAAGGTCTGTCCGTTACTTTTG
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 CTGTCTGAGGGTTTTGAAATGGTTAACTTCAAAGAAGAGGGCTTTGGTTTGAGAGCAACAA
 GAGATATCAAGGCAGAAGAATTGTTTTATGGGTTCCACGAAAATTGCTAATGACTGTTG
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 TGGGAAACATCGCACTGGCCTTTCATTTGCTGTGTGAGCGAGCCAGCCCTAACTCCTTCT
 GGCAGCCCTATATTCAAACCTCCCCAGTGAATATGACACTCCTCTCTACTTTGAAGAAG
 ATGAAGTTCGGTATCTTCAGTCCACACAAGCTATACATGATGTCTTCAGCCAGTAAAAA
 ACACAGCTCGACAGTACGCCTACTTCTATAAAGTCATCCAGACCCATCCTCATGCCAACA
 AACTACCTTGAAAGGATCTTTCACTTACGAGGACTACNAGTGGGCAGTCTCTTCTGTTA
 TGACGAGGCANAACCAAAATTCACAGAGATGGNTCCCGCGTGACCCTGGCTCTGATCCTT
 TATGGGATATGTGTAACACACACGCNCTGATACTACTGGNTACANCTGNAGATGACGC
 TGTGGATGTGTGCTTG

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_032233 unedited
 GTCCGCGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTAAATGTTTTCTTTT
 AATAAGGGTTTTACTCAAAAGTGTAGCTTTGAAAATCTCTAGCTTGTGTGAAAACCAG
 GAAAGCCAAGGAGCTGCCTCACACTGCACACCACCACGTGAAGCTGTGGGCCGCTGTGTG
 TTTGCAAACCTCTCCATTACCAAGGCTGGAATCAAATGCACCACCTTAAAAATCAGAGCCAA
 CATTTAAATTAGGAGGATGATGCATGTCCTACTTTGATTCAAGGAGAAAGGACAAGTTC
 TTAGTACAGTAAACAAAACAAAAAGTAAACAAATCTTTAGAAATCACTATATATATGT
 GTGTTTATATATATTTTTATATAATTAGGATTATCATCTTTCAAACATTAATAAATA
 AGGTTGCCACCTTACCTTTCTTTTGGTAATGGGGTGTATTTTTTTAAGAGAAAAAAC
 CAAACATTTTGCCAGACTCTAGAGTTTCCCACTTCAATTCTGTTTTCTGCTGTGCAAC
 TTCCCCACCTTCACGCTGTATCCCCAAGTCCCGCCACCAATTCTGGCTGGCAGGAGGCAG
 AGCAAGCTTTTCATTCTGTGCATCAAGATGACAGGCCACANAAGTACAGCTGAGACGGGA
 ACTGAATCTTCCCCAGGAAGAAATACCTATACCCACATAGTCTGCAAAATCTCCACA
 GGCACCTCTTCTCCCTTCTTGNNGNNTGTTGCTAATGGCTNGNTNNTGCTAAAAGCCAG
 ATGGCATCTTATCAAAAAGGGAGCTAGATTTTTAAATACTTAANAAAAATNTTATATA
 AGCAGCAAAACATATCTTCTCTCTGCAGAAAGAAAAATGTTACAGGGAACACAGCGATG
 TGAACGGACTGTNCGTNAACNCTGCTCCACTGGATCCCCCATCCAGCTTACCTGAGAC
 TACTCTTACTTCAGCAGTGCTGGCTGAAAAAGATCTTTGCCGTCTTCACTGCTCTT

Restriction Sites:

NotI-NotI

ACCN:

NM_032233

Insert Size:

3110 bp

OTI Disclaimer:

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

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:	<u>NM_032233.2, NP_115609.2</u>
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] Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a).