

Product datasheet for RC232651

SETDB1 (NM_001243491) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SETDB1 (NM_001243491) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SETDB1
Synonyms:	ESET; H3-K9-HMTase4; KG1T; KMT1E; TDRD21
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC232651 representing NM_001243491 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTCTTCCCTTCTGGGTGCATTGGTTTGGATGCAGCAACAGCTACAGTGGAGTCTGAAGAGATTGCAG
AGCTGCAACAGGCAGTGGTTGAGGAACTGGGTATCTCTATGGAGGAACTTCGGCATTTCATCGATGAGGA
ACTGGAGAAGATGGATTGTGTACAGCAACGCAAGAAGCAGCTAGCAGAGTTAGAGACATGGGTAATACAG
AAAGAATCTGAGGTGGCTCACGTTGACCAACTCTTTGATGATGCATCCAGGGCAGTGACTAATTGTGAGT
CTTTGGTGAAGGACTTCTACTCCAAGCTGGGACTACAATACCGGGACAGTAGCTCTGAGGACGAATCTTC
CCGGCCTACAGAAATAATTGAGATTCTGATGAAGATGATGATGTCTCAGTATTGATTCAGGTGATGCT
GGGAGCAGAACTCCAAAAGACCAGAAGCTCCGTGAAGCTATGGCTGCCTAAGAAAGTCAGCTCAAGATG
TTCAGAAGTTCATGGATGCTGTCAACAAGAAGAGCAGTCCCAGGATCTGCATAAAGGAACCTTGAGTCA
GATGTCTGGAGAATAAGCAAAGATGGTGACCTGATAGTCAGCATGCGAATTCTGGGCAAGAAGAGA
AAGACTTGGCACAAGGCACCCCTATTGCCATCCAGACAGTTGGCCAGGGAAGAAATACAAGGTGAAAT
TTGACAACAAGGAAAGAGTCTACTGTGGGGAACCATATTGCCTATGATTACCACCTCCTGCTGACAA
GCTGTATGTGGCAGTCGGGTGGTCGCCAAATACAAGATGGGAATCAGGTCTGGCTCTATGCTGGCATT
GTAGCTGAGACACCAAACGTCAAAAACAAGCTCAGGTTTCTCATTCTTTGATGATGGCTATGCTTCTCT
ATGTCACACAGTCGGAAGTGTATCCCATTTGCCGGCCACTGAAAAAGACTTGGGAGGACATAGAAGACAT
CTCCTGCCGTGACTTCATAGAGGAGTATGTCACTGCCTACCCCAACCGCCCATGGTACTGCTCAAGAGT
GGCCAGCTTATCAAGACTGAGTGGGAAGGCACGTGGTGGAAAGTCCCGAGTTGAGGAGGTGGATGGCAGCC
TAGTCAGGATCCTCTTCTGGTACTGTTCTCTACAATTTGGAGGCAGAGGTTGGTGGGGGGGAAC
T

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >RC232651 representing NM_001243491
 Red=Cloning site Green=Tags(s)

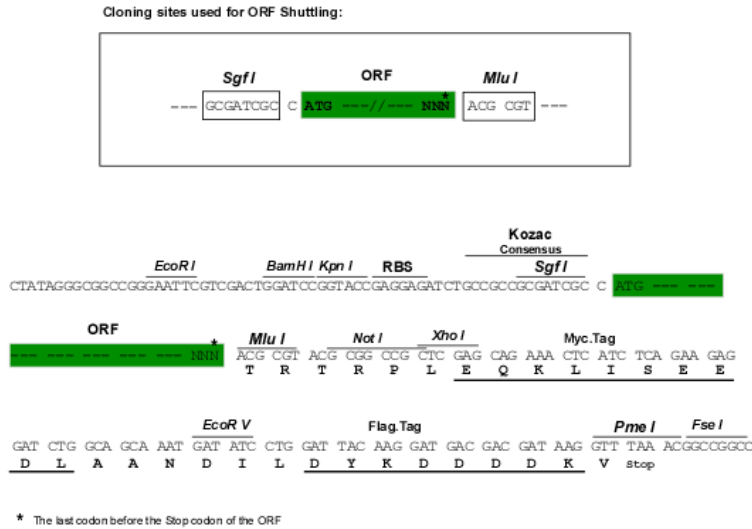
MSSLPGCIGLDAATATVESEEIAELQQAVVEELGISMEELRHFIDEELEKMDCVQQRKKQLAELETWVIQ
 KESEVAHVVDQLFDDASRAVTNCESLVKDFYSKLGLOYRDSSEDESSRPEIIEIPDEDDDLVIDSGDA
 GSRTPKDQKLREAMAALRKSADVQKFMDAVNKSSSQDLHKGTL SQMSGELSKDGLIVSMRILGKKRT
 KTWHKGTLIAIQTVGPGKKYKVKFDNKGKSLLSGNHIAIDYHPPADKLYVGSRVVAKYKDGNOVWLYAGI
 VAETPNVKNLRFLLIFFDDGYASYVTQSELYPICRPLKKTWEDIEDISCRDFIEEYVYTPNRPMLLKS
 GQLIKTEWEGTWWKSRVEEVDGSLVRILFLVFFSTILEAEVGGGGT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

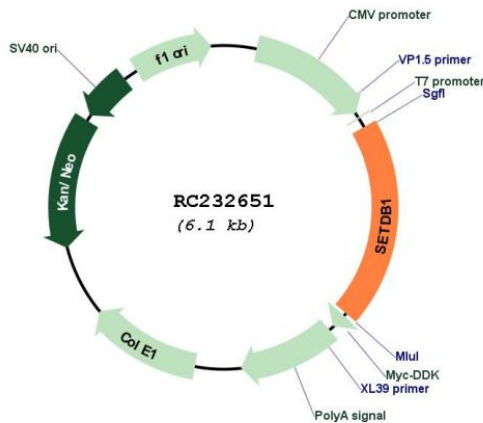
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001243491

ORF Size:	1191 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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_001243491.2
RefSeq Size:	1507 bp
RefSeq ORF:	1194 bp
Locus ID:	9869
UniProt ID:	Q15047
Cytogenetics:	1q21.3
Protein Families:	Druggable Genome
Protein Pathways:	Lysine degradation
MW:	45.1 kDa
Gene Summary:	This gene encodes a histone methyltransferase which regulates histone methylation, gene silencing, and transcriptional repression. This gene has been identified as a target for treatment in Huntington Disease, given that gene silencing and transcription dysfunction likely play a role in the disease pathogenesis. Alternatively spliced transcript variants of this gene have been described.[provided by RefSeq, Jun 2011]