

Product datasheet for RC226620

SETDB1 (NM_001145415) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SETDB1 (NM_001145415) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SETDB1
Synonyms:	ESET; H3-K9-HMTase4; KG1T; KMT1E; TDRD21
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC226620 representing NM_001145415 Red=Cloning site Blue=ORF Green=Tags(s)

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Protein Sequence: >RC226620 representing NM_001145415
 Red=Cloning site Green=Tags(s)

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```

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Chromatograms: https://cdn.origene.com/chromatograms/mg4860_c03.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

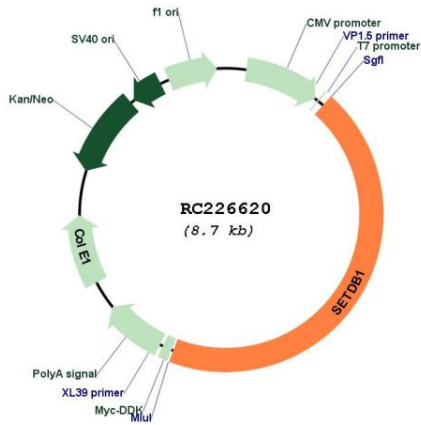


ACCN: NM_001145415

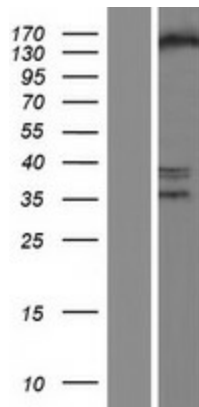
ORF Size: 3873 bp

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:	<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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001145415.1 , NP_001138887.1
RefSeq ORF:	3876 bp
Locus ID:	9869
UniProt ID:	Q15047
Cytogenetics:	1q21.3
Protein Families:	Druggable Genome
Protein Pathways:	Lysine degradation
MW:	143 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]

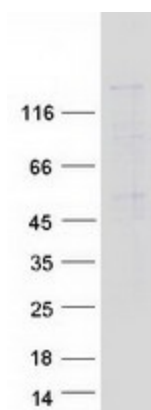
Product images:



Circular map for RC226620



Western blot validation of overexpression lysate (Cat# [LY428874]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC226620 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified SETDB1 protein (Cat# [TP326620]). The protein was produced from HEK293T cells transfected with SETDB1 cDNA clone (Cat# RC226620) using MegaTran 2.0 (Cat# [TT210002]).