

## Product datasheet for **RG229002**

### **SETDB2 (NM\_001160308) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	SETDB2 (NM_001160308) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SETDB2
Synonyms:	C13orf4; CLLD8; CLLL8; KMT1F
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG229002 representing NM\_001160308  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGAGAAAAAATGGCGATGCAAAAACCTTTCTGGATGGAGCTAGAAGATGATGGAAAAGTGGACTTCA  
 TTTTTGAACAAGTACAAAATGTGCTGCAGTCACTGAAACAAAAGATCAAAGATGGGTCTGCCACCAATAA  
 AGAATACATCCAAGCAATGATTCTAGTGAATGAAGCAACTATAATTAACAGTTCAACATCAATAAAGGAT  
 CCTATGCCTGTGACTCAGAAGGAACAGGAAAACAAATCCAATGCATTTCCCTCTACATCATGTGAAAAC  
 CCTTTCCAGAAGACTGTACATTTCTAACACAGGAAATAAGGAAATTCCTCTCTTGAAGATAAAGTTGT  
 AGACTTTAGAGAAAAAGACTCATCTTGAATTTATCTTACCAAAGTCATGACTGCTCTGGTGCTTGTCTG  
 ATGAAAATGCCACTGAACCTGAAGGGAGAAAACCTCTGCAGCTGCCAATCAAATGTCACCTCCAAAGAC  
 GACATGCAAAGACAAACTCTCATTCTTCAGCACTCCACGTGAGTTATAAAACCCCTTGTTGAAGGAGTCT  
 ACGAAACGTGGAGGAAGTTTTTCGTTACCTGCTTGAGACAGAGTGAACTTTTTATTACAGATAACTTT  
 TCTTTCAATACCTATGTTCAAGTTGGCTCGGAATACCCAAAGCAAAAAGAAGTTGTTTCTGATGTGGATA  
 TTAGCAATGGAGTGAATCAGTGCCATTTCTTCTGTAATGAAATGACAGTAGAAAGCTCCACAGTT  
 TAAGTACAGAAAGACTGTGTGGCCTCGAGCATATAATCTAACCAACTTTCCAGCATGTTTACTGATTCC  
 TGTGACTGCTCTGAGGGCTGCATAGACATAACAAAATGTGCATGTCTTCAACTGACAGCAAGGAATGCCA  
 AAACCTCCCCCTTGTCAAGTGACAAAATAACCACTGGATATAAATAAAAAGACTACAGAGACAGATTCC  
 TACTGGCATTATGAATGCAGCCTTTTGTGCAATGTAATCGACAATTGTGTCAAACCGAGTTGTCCAA  
 CATGGTCTCAAGTGAGGTTACAGGTGTTCAAACTGAGCAGAAGGGATGGGGTGTACGCTGTCTAGATG  
 ACATTGACAGAGGGACATTTGTTGCATTTATTCAGGAAGATTACTAAGCAGAGCTAACACTGAAAAATC  
 TTATGGTATTGATGAAAACGGGAGAGATGAGAATACTATGAAAAATATATTTTCAAAAAGAGGAAATTA  
 GAAGTTGCATGTTCAAGTTGTAAGTTGAAGTTCTCCATTAGGATTGGAACACATCCTAGAAGTCTA  
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 TATTTCAAGAATTCAGTATCATTCAAGTTATTAGAGATCCTGAATCCAAGACAGCCATTTTCAACACAAT  
 GGGAAAAAATGGAAATTTGTTTCTCGGAGTCTGTCACCTCAGAAAGATAATGATGGATTTAAACCACCC  
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 CCCAAGAGGGACGATCTACAGCATGTCAAAGACAGCAGGTATTTGTGATGAAGAGTTGCTAAGTGAAC  
 CAAGAATACTTCACTGATTCTTAACAAAGTTCAATAAAGGGAATGTGTTTTTATTGGATGCCAAAAA  
 GAAGGAAATGTCGGCCGCTTCTTAATCATAGTTGTTGCCAAATCTCTTGGTACAGAAATTTTTGTAG  
 AAACACACAACAGGAATTTCCATTGGTGGCATTCTTCAACACAGGTATGTGAAAGCAAGAACAGAGCT  
 AACATGGGATTATGGCTATGAAGCTGGGACTGTGCCTGAGAAGGAAATCTTCTGCCAATGTGGGGTAAAT  
 AAATGTAGAAAAAATATTA

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:** >RG229002 representing NM\_001160308  
 Red=Cloning site Green=Tags(s)

MGEKNGDAKTFWMELEDDGKVDIFEFQVQNVLQSLKQKIKDGSATNKEYIQAMILVNEATIINSSTS  
 IKD PMPVTQKEQENKSNAPSTSCENSFPEDCTFLTGTGNKEILSLEDKVVDFREKDSNNLSYQSHDCSGACL  
 MKMPLNLKGENPLQLPIKCHFQRRHAKTNSHSSALHVSYKTPCGRSLRNVEEVFRYLLETECNFLFTDNF  
 SFNTYVQLARNYPKQKEVSDVDISNGVESVPI SFCNEIDSRKLPQFKYRKT VWP RAYNL TNFSSMFTDS  
 CDCSEGCIDITKCAQLTARNAKTSPLSSDKITTG YKYKRLQRQIPTGIYECSSLCKCNRQLCQNRVVQ  
 HGPQVRLQVFKTEQKGWV RCLDDIDRGTFCIYSGRLLSRANTEKSYGIDENGRDENTMKNIFSKRKL  
 EVACSDCEVEVLPLGLETHPRTAKTEKCPPKFSNNPKELTMETKYDNISRIQYHSVIRDPE SKTAIFQHN  
 GKKMEFVSSVTPEDNDGFKPPREHLNSKTGGAQK DSSSNHVDEFEDNLLIESDVIDITKYREETPPRS  
 RCNQATLTDNQNIKKAIEVQIQKPQEGRSTACQRQVFCDEELLSETKNTSSDSLTKFNKGNVFLLDATK  
 EGNVGRFLNHSCCPNLLVQNVFVETHNRNFPLVAFF TNRVYKARTELTWDYGYEAGTVPEKEIFCQCGVN  
 KCRKKIL

TRTRPLE - GFP Tag - V

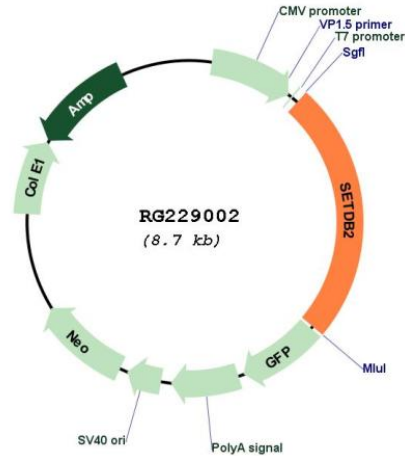
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shutting:



## Plasmid Map:



ACCN: NM\_001160308

ORF Size: 2121 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\\_001160308.1](#), [NP\\_001153780.1](#)

RefSeq Size: 5636 bp

RefSeq ORF: 2124 bp

<b>Locus ID:</b>	83852
<b>UniProt ID:</b>	<a href="#">Q96T68</a>
<b>Cytogenetics:</b>	13q14.2
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Lysine degradation
<b>Gene Summary:</b>	<p>This gene encodes a member of a family of proteins that contain a methyl-CpG-binding domain (MBD) and a SET domain and function as histone methyltransferases. This protein is recruited to heterochromatin and plays a role in the regulation of chromosome segregation. This region is commonly deleted in chronic lymphocytic leukemia. Naturally-occurring readthrough transcription occurs from this gene to the downstream PHF11 (PHD finger protein 11) gene. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2016]</p>