

## Product datasheet for **MG222601**

### Setdb1 (NM\_001163641) Mouse Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Setdb1 (NM\_001163641) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Setdb1  
**Synonyms:** AU022152; ESET; KMT1E; mKIAA0067  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG222601 representing NM\_001163641  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTCCTCCCTCCCTGGGTGCATGAGTTGGCTGCAGCGCCAGCTGCAGCTGACTCTGCAGAGATTGCTG  
AGCTGCAGCAGCGGTGGTTGAAGAGCTGGGTATCTCTATGGAGAACTTCGTCAGTACATTGATGAGGA  
ACTGGAAAAGATGGACTGCATACAGCAGCGCAAGAAGCAGCTCGCAGAGCTGGAGACGTGGTACTACAG  
AAAGAGTCTGAAGTGGCTTATGTTGATCGGCTGTTTATGATGCATCCAGGGAAGTACTAACTGTGAGT  
CTTTGGTGAAGGATTTCTACTCTAAGCTGGGACTACAGTATCATGACAGTAGCTCTGAGGATGAAGCTTC  
CCGGCCACAGAGATCATTGAGATTCCTGATGAAGATGATGATGTCTCAGTATTGATTCAGGTGATGCT  
GGGAGCAGAACTCCAAAAGACCAGAAGCTTCGTGAAGCTATGGCTGCCTTAAGAAAATCAGCTCAAGATG  
TCCAGAAGTTCATGGATGCTGTCAACAAGAAAAGCAGTTCCTCAAGATCTACATAAAGGAACCTTGGGTCA  
GGTGTCTGGAGAAGTGAAGAAAGATGGGACCTGATAGTCAGCATGCGGATTCGGGCAAGAAGAGGACT  
AAGACATGGCACAAGGCACCCTTATTGCCATCCAGACTGTTGGGCTAGGAAAAAATACAAAGTGAAT  
TTGACAACAAGGAAAGAGTCTGCTATCTGGGAACCATATTGCCTATGATTACCACCCTCCCGCTGACAA  
GCTGTTTGTGGCAGTCGAGTGGTGGCAAGTACAAGATGGAATCAGGTCTGGCTTTATGCTGGCATT  
GTAGCTGAGACCCCTAACGTCAAGAACAAGCTCAGATTTTTAATTTTTTTTGGATGATGGCTATGCTTCCT  
ATGTCAGTCACTCAGAGCTTTATCCATTTGCCGACCCTAAAAAAGACTTGGGAGGACATAGAAGATAG  
CTCCTGCCGAGACTTCATAGAGGAATATATCACTGCCTATCCAAACCGCCAATGGTACTTCTCAAGAGT  
GGGAGCTTATCAAGACTGAGTGGGAAGGCACATGGTGAAGTCTCGAGTTGAAGAGGTGGATGGCAGCC  
TAGTCAGGATCCTCTTTCTGGATGACAAAAGATGTGAGTGGATATATCGAGGCTCTACACGCTGGAACC  
TATGTTTAGTATGAAGACATCCTCAGCCTCTGCAATGGAGAAGAAGCAAGGGGGCAACTCAGAACCCTG  
CCTAATATGGGTGCTGTGAGGAGCAAAGGCTCTGTTGTTTCAGTATACACAGGATCTAACTGGTACTGGAA  
TCCAGTTAAGCCATGGAGCCCTACAGCCTATAGTCCACCGCCCACTTCTATACCTCCTCTTTCC  
CCCCAAGCAGCTGACTGAAAGCTTAGAAAGCAACTGCACAATCACGGAACAAGTAGCCAAGAAG



AGCACATCATTCCGACCAGGATCTGTGGGCTCCGGCCATTCTCCCTACTTCATCCACACTCAGTGAAA  
ATGTGTCTGCTGGGAACTTGGGATAAACCAGACATATCGGTACCTTTGGCCTCAGTAACATCTACCCC  
AGCATCTGCAGCCCTCCAGTCCCTCCAGTCCCACCAGGGCTCCAACCCCTCCAGGGCTCCAGTCTCT  
CCAGGGCTCTAGCTCCTCCAGCCTTCCATGGCATGTTAGAGCGGGCACCAGCTGAGCCCTCCTACCGAG  
CCCCATGGAGAAGCTTTTCTATTTACCTCATGCTGCAGTTACACTTGTGTCCCGGATCAGACCCAT  
GAGAAACGAACAGTATCGGGCAAGAACCCTCTATTAGTTCACCTTCTGTATGACTTCCGGAGGATGACA  
GCACGGCGCAGAGTTAACCGCAAAATGGGCTTTCATGTAATCTATAAGACACCCTGTGGTCTGCCTTC  
GGACGATGCAGGAGATAGAGCGCTACCTTTTTGAGACTGGCTGTGACTTTCTGTTCTGGAGATGTTCTG  
TTTGGATCCATATGTTCTTGTGACAGAAAGTTTCAACCCTTTAAGCCTTTTTACTATATTTTGGACATC  
ACCTATGGCAAGGAAGATGTTCCCTGTCTGTGTTAATGAGATTGACACAACCTCCCCACCCAGGTGG  
CCTACAGCAAGGAACGCATTCTGGCAAGGGTGTTCATTAAACACAGGCCCTGAATTTCTGGTTGGCTG  
TGACTGCAAGGATGGGTGTCGGGATAAATCCAAATGTGCCTGCCACCAGCTAACTATCCAGGCCACAGCC  
TGTACCCAGGGGCCAAGTCAACCCTAACTCTGGCTACCAGTATAAAGACTAGAAGAGTGTCTGCCCA  
CAGGGGTTTATGAGTGTAAACAAACGCTGCAATTGTGACCCAAACATGTGCACAAATCGGTTGGTGCAGCA  
TGGTCTGCAGGTTGACTACAGCTGTTTAAAGACACAGAACAAGGGCTGGGGTATCCGCTGCTTGGATGAT  
ATTGCCAAAGGCTCTTTTGTCTGATTTATGCAGGCAAAATCCTGACAGATGACTTTGCAGACAAAGAAG  
GCCTGGAGATGGGTGATGAGTACTTTGCAAATCTGGACCACATTGAAAGTGTGGAGAACTCAAGGAAGG  
ATATGAGAGTGTGTCCTTCTCTGACAGCAGTGGGGTAGATATGAAGACCAGGAAGATGGCAAC  
AGCGGTTCCAGAGGACCCTGAAGAATCCAATGATGACAGCTCTGATGATAACTTCTGTAAGGATGAGGACT  
TCAGCACCAGTTCAGTGTGGCGTAGCTATGCTACCCGGAGGCAGACTCGGGGTCAAAGGAGAATGAATT  
GTCTGAGATGACTTCAAAGACTCCCGCCCCAGACCTCGGGCTCCACATGTTCTATCCCTTCTCA  
GTATCTGTAGGGGGCTGCAATCCACCTTCTCTGAAGAGACACCAAGAACAAGGTGGCTCGTGGTTGA  
TGGAGATGGCCGTGCTGGGGGAGGCCGGGAGAGGCTGAAAGGGCTCTACCTCAGGATTGAGCTTCAAG  
GATGAAGGAGACAATAAGCAGCCTAAAAAAGAGGACCCTGAGAACCAGAAACAAGATGCCAGTAGTACTG  
AAGGCTCTCAGAAATCATGGACATAATCCTCCCATGAAGTCTGAAGGGCTTCGCCGATCAGTAGTAAAT  
GTCTGTGCTCCAGAGCCAGCGATTGTGACTTCTACTCAGTCAAACCCTGATGACATCCTGACACTGTCC  
AGCAGCACAGAGAGTGAAGGGGAAAGTGAACAGCCGAAAGCCACTGCTGGTCACTTCAGCCACAG  
CTGTTGATAGTGTGACATCCAGACCATCTTCTGGCTCTGACGGTGTGACTTTGAGGACAAGAAGAA  
CTTGTCCAGGACCAACAAGCGCCAGGTGGCAGTAAATCAACCCGAGGCTTTGCTCTTAAATCAACCCAT  
GGTATTGCCATTAATCAACCAACATGGCTTCCGTGGACAAGGGGAGAGTGCACCAGTTCGTAAGAACA  
CAGCCAGTTCATGATGGTGAAGAGTCTTGTACATCATTGATGCCAACTTGAAGGCAACCTAGGCCG  
CTACCTCAATCAGATTGCAGCCCAACCTGTTTGTCCAGAATGTGTTTGTGGATACCCATGATCTTCGC  
TTCCCTTGGGTGGCCTTCTTTGCCAGCAAGAGAATCCGGGCTGGAACAGAACTCACTTGGGACTACAAC  
ACGAAGTGGGCAGTGTGGAAGGCAAGGAGCTGCTGTGCTGCTGTGGGCCATTGAATGCAGAGGGAGACT  
TCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG222601 representing NM\_001163641  
 Red=Cloning site Green=Tags(s)

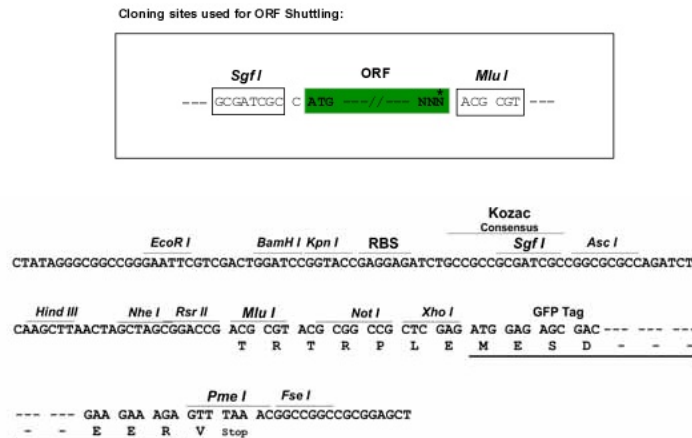
```
MSSLPGCMSLAAPAAADS AEI AELQQAVVEELGISMEELRQYIDEELEKMDCIQQRKKQLAELETWVLQ
KESEVAVYVDRLFDDASREVTNCESLVKDFYSKLGLQYHDSSEDEASRPEIIEIPDEDDVLSIDSGDA
GSRTPKDQKLREAMAALRKS AQDVQKFM DAVNKKSSSQDLHKGTLGQVSGELSKDGLIIVSMRILGKKRT
KTWHKGTLIAIQTVGLGKKYKVKFDNKGKSLLSGNHIAIDYHPPADKLFVGSRVVAKYKDGNOVWLYAGI
VAETPNVKNKLRFLIFFDDGYASYVTQSELYPICRPLKKTWEDIEDSSCRDFIEEYITAYPNRPMVLLKS
GQLIKTEWEGTWKSRVEEVDGSLVRILFLDDKRCWEIYRGSTRLEPMFSMKTSSASAMEKKQGGQLRTR
PNMGAVRSKGPVVQYTQDLTGTGIQFKPMEPLQPIAPPAPLPIPLSPQAADTESLESQAQSRKQVAKK
STSFPRGVSQVSGHSSPTSTLSENVSAGKLGINQTYRSPASVTSTPASAAPPVPPVPPGPPTPGPPAP
PGPLAPPFAHGMLERAPAEPYRAPMEKLFYLPHVCSYTCLSRIRPMRNEQYRGKNPLLVP LLYDFRMT
ARRRVNRKMGFHVYKTPCGLCLRTMQEIERYL FETGCDFLFLEMFC LDPYVLRDRKFQPFKPFYI LDI
TYGKEDVPLSCVNEIDTTPPPQVAYSKERIPGKGVFINTGPEFLVGCDCDKGCRDKSKCACHQLTIQATA
CTPGGQVNPNSGYQYKRL EECLPTGVYECNKRCNCDPNMCTNRLVQHGLQVRLQLFKTQNKGWGIRCLDD
IAKGSFVCIYAGKILTDDFADKEGLEMGDEYFANLDHIESVENFKEGYESDVPTSSDSSGVMDKQEDGN
SGSEDPEESNDDSSDDNFCKDEDFSTSSVWRSYATRRQTRGQKENELSEMTSKDSRPPDLGPPHVPSPSS
VSVGGCNPSSSEETPKNKVASWLS CNSVSEGGFADSDSRSSFKTSEGGDGRAGGGRGEAERASTSGLSFK
DEGDNKQPKKEDPENRNKMPVTEGSQNHGHNPPMKSEGLRRSASKMSVLQSQRVVTSTQSNPDDILTLS
SSTESEGESGTSRKPTAGHTSATAVDSDDIQTISSGSDGDDFEDKKNLSGPTKRQVAVKSTRGFALKSTH
GIAIKSTNMASVDKGESAPVRKNTRQFYDGEESCYIIDAKLEGNLGRYLNHSCSPNL FVQNVFVDTHDLR
FPWVAFFASKRIRAGTELTDYNYEVGSVEGKELLCCCGAIECRGRL
```

TRTRPLE - GFP Tag - V

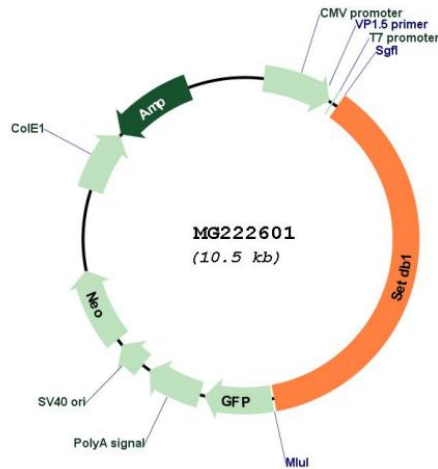
**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**



## Plasmid Map:



ACCN: NM\_001163641

ORF Size: 3924 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\\_001163641.1](#), [NP\\_001157113.1](#)

RefSeq Size: 4682 bp

RefSeq ORF: 3927 bp

Locus ID: 84505

Cytogenetics: 3 F2.1