

Product datasheet for **MG223687**

Setdb2 (NM_001081024) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Setdb2 (NM_001081024) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Setdb2
Synonyms:	Clld8; Gm293; KMT1F
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG223687 representing NM_001081024
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAAGAAAAAATGGTGATGCAAAGACTTTCTGGATGGAGCTACAAGATGATGGTAAAGTTGACTTAA
 TGTTTGAGAAAACACAAAATGTCCTACATTCAGTCAAACAGAAGATAAAGGATGGGTCTGCCACAAATGG
 AGACTATGTCCAAGCAATGAATCTAGTAAATGAAGCCACTCTGAGTAACACGCAAACTGGAAAAGGGT
 ATGTTCTACTTATTCCAATCCTGAAGTGAATACTCATCGTAGCAATCATAACCTGTGACTCAGAGTG
 AACAGGAAAAACAATCAAGTGGCGTTCCCTCTGCATCATGTGACAACCTCTGTCCTAAGGGCTGTACTAT
 CCCATCTCCAGGAAAAAAGTATTCCTCCCTGTGAAGAATAAAGCTGACAATTTAGTGAAAAAGGAAGCC
 CCACTGCATATATCTTTCCATCGCCATATCTGCTCCAGGACTTGCTAATGGAAACCCCACTGTCCCTTGA
 AGGGAGAAAACCCCTGCAGCTACCAATCAGATGTCCTTCAAAGACGACATGCAAAGACAAACTCTCA
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 CATTACCTGCTTGAAACAGAGTGAACCTTTTTATTACAGACAACCTCTCTTTCAATACTTATGTCCAGT
 TGACTCGGAATACCCAAAGCAAAATGAAGTTGTTTCTGACGTGGATATTAGTAATGGAGTGGAAATCAGT
 GTCGATTCCTTTCTGTAATGAAATTGACAACAGTAAACTTCCACGGTTTAAAGTATAGAAATACAGTATGG
 CCCCAGATATATCATCTGAACTTTTCCAACATGTTTTCTGATTATGTGACTGTTCTGAGGGCTGCATAG
 ACATAAAAAATGTGCATGTCTTCAGTTGACAGCAAAGAATGCCAAGGCATGTCCCTTGTGCATCGGATGG
 AGAATGTGCTGGATATAAATACAAAAGACTGCAGAGGCTCATACCTACTGGCATTATGAATGCAACCTG
 CTCTGCAAGTGTAAACAACAGATGTGTCAAACCGAGTTATCCAGCATGGTGTCCGGGTGAGGCTACAGG
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 CATTATTACAGGAAGTTACTGCCAGAGCCACTCCTGAGAAAATAATATAGGTGAAAATGGAAGAGAG
 CAACAGCACATTGTGAAAAATTCATTTTCCAAAAGAGGAACTAGAAAGTTGTGTGTTTCCAGATTGTGACG
 CACTGTGACAGTCCTAAGGCTGAGGACTGCCCTCCCAAGCTTAGTGGTGATCTCAAAGAGCCCGCTGT
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 ATGGATTTAAACCAGCTCAAGAACACGTGAACTCTGAAGCTAGGAGAGCTCACGAGGACTTAAGTTCAAA
 CCCAGCTGGAGATTCTGAAGACACAGCTGACTGAATCAGACGTGATAGATATAACTGCAAGTAGAGAA
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 AAGTCCCAGGAAAGAAGTCCAAGAGGAAGAGCCTGCAGCCTCTCAAAGCCAGCAGGCCTTGTGTGATGA
 GGAGCTGCCAAGTGAGAGGACAAAGATTCCATCTGCTTCCCTGATGCAGCTCAGTAAGGAGAGTCTGTTT
 CTATTGGATGCTTCAAAGAAGGAAATGTGGGCGTTTTCTCAATCATAGTTGCTGTCCAAATCTCTGGG
 TGCAGAAATGTTTTGTAGAAACATGACAGGAATTTCCATTGGTGGCCTTCTTACCAACAGGTATGT
 GAAAGCAAGGACAGAATAACGTGGGATTATGTTATGAAGCTGGGGCCACGCCTGCAAAGGAAATCCTC
 TGCCAATGTGGGTTTAAATAGTGTGGAAAAAATTAATA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG223687 representing NM_001081024
 Red=Cloning site Green=Tags(s)

MEEKNGDAKTFWMELQDDGKVDLMFEKTQNVLHSLKQKIKDGSATNGDYVQAMNLVNEATLSNTQTLEKG
 MFITYSNPEVNTHRSNHTPVTQSEQENKSSAVPSASCDNSCPKGCCTIPSPGKKVFLPVKNKADNLVKKEA
 PLHISFHRHICSRCLMETPLSLKGENPLQLPIRCHFQRRHAKTNSHSSALHVNYKTPCGRNLRNMEEVF
 HYLLETECNFLFTDNFSFNTYVQLTRNHPKQNEVVSDVDISNGVESVSIIPFCNEIDNSKLPFRKYRNTVW
 PRIYHLNFSNMFSDSCDCSEGCIDIKKCAQLTAKNAKACPLSSDGECAGYKYKRLQRLIPTGIYECNL
 LCKCNKQMCQNRVIQHGVRVRLQVFKSEKKGWVRCLDDIDKGTFCIYSGRLLRRATPEKTNIGENGRE
 QQHIVKNSFSKKRKLEVVCSDCDAHCDSPAEDCPPKLSGDLKEPAVEMNHRNISRTQHHSVIRRTKSKT
 TVFHSEKNGMFVCSDSAAPEDKNGFKPAQEHVNSEARRAHEDLSSNPAGDSEDQLTESDVIDITASRE
 DSAPAYRCKHATIVDRKDTKQVLEVPGKKSQEEEPAAQSQQALCDEELPSERTKIPSASLMQLSKESLF
 LLDASKEGNVGRFLNHSCCPNLWVQNVFVETHDRNFPVVAFFTNRYVKARTELTWDYGYEAGATPAKEIL
 CQCGFNKCRKKLI

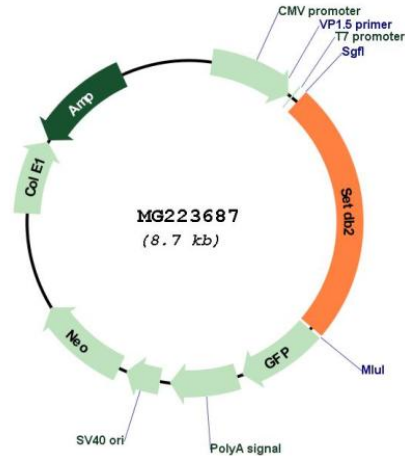
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN: NM_001081024

ORF Size: 2139 bp

OTI Disclaimer: 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.

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_001081024.1](#), [NP_001074493.1](#)

RefSeq Size: 3034 bp

RefSeq ORF: 2142 bp

Locus ID: 239122

Cytogenetics: 14 C3