

## Product datasheet for **MG224983**

### **Dmrta1 (NM\_175647) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Dmrta1 (NM_175647) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dmrta1
Synonyms:	Dmrt4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG224983 representing NM\_175647  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGCGATTACCTCACGGTCGTAGAGACCCGAGCGCGGCTGCCGACCCCATCTGCCCCAGGGCGGG  
 CTGCTGCCCGCTTCGGCCGCGCGGTCCGTGTGTCGGGGATTCCGGTGTCCGCGACTTTCCTGCGGCC  
 GCCTGGCCTTTTTCTGCGATCGACCGCAAGCTCCGGTCGCGCAGGATGCGCTCCGGGCCCTGGGCTGGAT  
 AGGGCGTTGGGGCGGTAGGCTGCGGCTACCCGCGGACCCGAAGTGCAGCGCTGTGCAACCATGGCG  
 TGGTGTACAGCGCTCAAGGGCCACAAGCGCTTCTGCCGCTGGCGGGACTGCGCGTGTGCCAAGTGCACCT  
 GATCGCCGAGCGGACGCTGTATGGCCGCGCAGGTGGCCCTGCGCAGGCAGCAGGCGCAGGAGGAGAGC  
 GAGGCCCGGGCTGCACAGGCTTCTGTACCAGGGTCTCGGGTCCGGGGCTCAGGCTCCGGGGCA  
 GCGGCAGGACCGAGAGTCCCAGGCTTGAATAACCCCATGGCTGTAGCTGTTCTGGGAGCGGGTGCCTC  
 TAGACACCTGGGAGCCGGTCACTCCCACTTTTCGAGTTTTCCAGCAAGATTATGCTGACGAAAGCAG  
 GAACAAAACAGAGAAACTGTGAGTCATGCCAGAGTAGACAGGAAGAACCAGTCTCCAACACTCATCACC  
 ATTCTCTGGGATCATCTAAGGTAATGTGACCGTGGAGAAACAGGGCTTATGTCATCTATTCCAGAACA  
 CCCAGACAAATCCACCATCATCTGCTCCTTGCCCCACGGATCAATCGGGAGGAGAAGACAGTCCCAGG  
 TCTTTCTCTCTGACCTGGAATCAGGGAATGAAAGCAGTGGCCAGAGACTACATTGCTACCAGAG  
 CCAGCCTTCCACGGTGACCTCAAGACCAGAGACCTCTCGAATTCCTACCAGGATCTTCCAGGTTA  
 CAAGCGTAGCCGCTAGAAGGCATTCTACAGTTCGCAAGGGAGATGTAGTCCAAGCTATTGAACAGATC  
 TTAATGGGAGAGAACATAAACCAGACTGCAGGACCTAGCACGCGCAGACTTGGAAAATGCAGCCTTTC  
 AGAGACGTCAGATTTTAGTCTTGGCTGGCATTGGCTTTGGGACTTAAGTAATAAATCAGCTCTCTCC  
 TCTTGAAGCTGCGTCTGCTGCTTATGGAGGAGATTCAACTCTACAGTTTCAATCCTAGACTAGCTTTC  
 AGCCCACTGCGCCTGGCATTCTTCTCCAGGAAGAGCGCTGTCTGGTTTTGTGCACCCTACCTAACAC  
 CTGGACTGGTCCAGCATTGCCTTTTCGGCCAACCTTGGATTATGCGTTTCCAGGGATGATTAGGGAGCC  
 GTCCACCTCCCTAGCAAGCACTTAGTAGCTGGTGGTAGACTGTATTTCCAGGCCAATCAGGAGCATCTG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>MG224983 representing NM\_175647  
 Red=Cloning site Green=Tags(s)

MERLPHGRRDRSGGCRPHLAPGRAAAPASAARSVSSGIPVSATFLRPPGLFLRSTASSGRAGCAPGPGLD  
 RALGAVGCGYPRTPKCARCRNHGVVSALKGHKRF CRWRDCACAKCTLIAERQVRMAAQVALRRQQAQEEES  
 EARGLHRLLYQSSSGSAQASGGSGRTESPQVLNNPMAVAVLGAGASRHPGSRVPTFEVFQDYADRKQ  
 EPKQRNCEESCQRQEEPVSNTHHHSLGSSKGNVTVEKQGMSSSIPHEPKSTIILSPCPTDQSGGEDSPR  
 SFSSSDLESGNESEWARDYIATRASLSTVTSRPRDPLGILTRIFPGYKRSRLEGILQFCKGDVVQAEIQI  
 LNGREHKPDCRDLARADLENAAFQRASDFSLAGIGFGLSNKSALSPLEAASAAYGGDSTLYSFPRLAF  
 SPLRLAYSSPGRALSGFVSPYLPGLVPALPFRPTLDYAFPGMIREPSHLPKHLVAGGRLYFRPNQEHL

**TRTRPLE** – GFP Tag – V

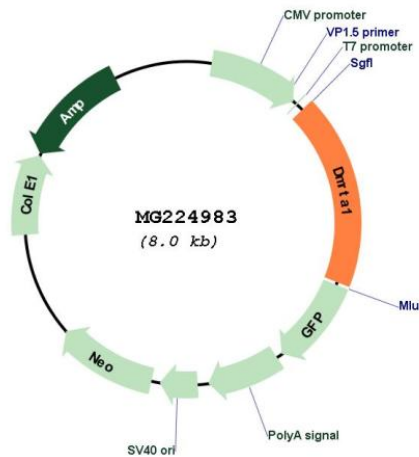
**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM\_175647

ORF Size: 1470 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\\_175647.3](#), [NP\\_783578.1](#)

**RefSeq Size:** 4073 bp

**RefSeq ORF:** 1473 bp

**Locus ID:** 242523

**UniProt ID:** [Q8CFG4](#)

**Cytogenetics:** 4 C4