

Product datasheet for **MG225591**

Dmrt2 (NM_145831) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dmrt2 (NM_145831) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Dmrt2
Synonyms:	Terra
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG225591 representing NM_145831
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACGGAAGGGCAGGCAGTCCCAGGAGTCCGGGACTGGGAGATCGACGTGGAAGCCTAGACCTGGAGG
 AAGATAGCTGTGGGACTCCACTGCGGGCCACGCCCGCAGGAACCCAGTCCGGCGCGCCGATGGGGA
 GGAGGACGAGGACGAAGAAGAGGAGGATGAAGATGTGGAGGACGAGGGTACGGCGAGGAGCCCGCGCTG
 TCCTCGGAGGTGCCAGGCCGCGCCAGAGCAGCCGGGGACTGGCACCCAGGCCACCGCTGCTGCTCAGG
 CGCTGCCAGCCGCGCCGCCGCCCTGAGCGCGGTGCCACCGCCGGTGGCGGCGCAGAGCCGCGCAA
 GAGCCGCACACCAAGTGCACGCTGCCGAACCAGCGGTGGTATCCTGTCTCAAGGGCCACAAGCGA
 TTCTGTCGCTGGCGGACTGCCAGTGCGCCAATGCCTGCTGGTGGTGGAGCGCCAGCGTGCATGGCCG
 CCCAGGTGGCGCTCCGGAGGCAGCAGGCCACAGAGGACAAGAAGGGGCTTCTGGGAAACAGAACAATTT
 CGATCGGAAAGCAGTGTACCAGAGGCAAGTCAGGGCGCCGAGTTTCTGGCCAAAAGCATTTTAGAAGGT
 TATCGCCCAATGACGGCAGAGACTTACCTAGGAGGGACCTTCTCTACCTCCCGCTGTCAGTGACAGGA
 TGAGGAAGAGAAGAGCCTTTGCTGACAAGGAGTTGGAGAACATTATGCTGGAGAGAGAATAAAAGAGAG
 GGAGATGTTAGAAACATCTCAAGCTGCTGCCTTATTCTGCCAACCGTATGGTGCCTGGACCCGAGTAC
 AGTTTCTACAAAGGTACCTACAGCCCACTGCAGGAGAGCTGCCGAGCAAGGACTTCTGTAACTTTTTAC
 CTACCTGCCTTGATCTCACCATGCAATTCAGGGTCTGGGAATATGGAACCTATTTCTTCTAACGTCAG
 TGTGGCCACAACCTACAGACAATATCCCCTGCTCCTCACGATTTTTAGTTTGGCCAAAGTGCAGTCCCATT
 AGTGACACCCTTCTCTACCAGCAATATCTGTTAAATGCTACCACTTCTGTCCAAGCTCTGAAGCCGGGGA
 CCGGCTGGGACTTGAAGGAACCCGAGTTCAGGATGGGCTTAGCGCAGAGCAAGACATGATGCCACCCAA
 ACTGGAAGGCTCTCTGGTCTGCCCATCTGCCAGAGGTCCAGCCTCGAGAACAGACCTTCAGGTTTAC
 CAGGTGGTTCCAGAGAGTCTGCCTTCTCCCCACCCGGTCCGGAATTTCTCTCCATTGTTGATATGGACT
 GCCTGGCAGCTCAAGGGCACGTCTTAACCAAGCTCAGCAAAGAAAACACTAGACCTTCTCTGCCACTTAA
 AACTAATCCATTCCACTCAGTATTCAGCAGACGCTCAGCGACAATCAGGCCCTGAGTTGAACGCACCA
 TTTGTCAAAGAAGCCTTTGAAGAGACCCAAAGAAACACAGAGAGTGTGGTCAAGGAGAGCCAGAAGT
 ACACATTTACAATAGACAGATGCGCAAAGACCTTTTGTAGCCAAACAAGTTGGAACGAACTTTCGGC
 GAATGAGCCACTGTCGTTCTCTGTGAATCTATTCTTAAGAGGCCTTCATCTGCCGTCACCTACGCTCT
 CAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG225591 representing NM_145831
 Red=Cloning site Green=Tags(s)

MTEGQAVPGVDWEIDVESLDLEEDSCGTPLRATPPQEPSPAAADGEEDEDEEEDVEDEGDGEEPGV
 SSEVPGRPEQPGGLAPRPPPAQAALPAAAAAPERGATAGGGAEPKLSRTPKCARCRNHGVVSLKGHKR
 FCRWRDCQCANCLLVVERQRMVAQVALRRQATEDKKGLSGKQNNFDRKAVYQRQVRAPSLAKSILEG
 YRPMTAETYLGGTLPPLPPVSDRMRKRAFADKELENIMLEREYKEREMLETSQAALFLPNRMVPGPEY
 SSYKGTYSPTAGELPSKDFCNFLPTCLDLTMQYSGSGNMELISSNVSVATTYRQYPLSSRFLVWPCKGPI
 SDTLLYQQYLLNATTSVQALKPGTGWDLKGRVQDGLSAEQDMMPKLEGLVLPHPLEVPASRTDLQVH
 QVVPERSAFSPGRNFSPIVDMCLAAQGHVLTLSKENTRPSLPLKTNPFHVSFQQTLSKSGPELNAP
 FVKEAFEETPKKHRECLVKESQKYTFTIDRCAKDLFVAKQVGTLSANEPLSFSVESILKRPSSAVTHVS
 Q

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
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.
RefSeq:	<p>NM_145831.3, NP_665830.1</p>
RefSeq Size:	<p>2337 bp</p>
RefSeq ORF:	<p>1686 bp</p>
Locus ID:	<p>226049</p>
UniProt ID:	<p>Q8BG36</p>
Cytogenetics:	<p>19 C1</p>
Gene Summary:	<p>Transcriptional activator that directly regulates early activation of the myogenic determination gene MYF5 by binding in a sequence-specific manner to the early epaxial enhancer element of it. Involved in somitogenesis during embryogenesis and somite development and differentiation into sclerotome and dermomyotome. Required for the initiation and/or maintenance of proper organization of the sclerotome, dermomyotome and myotome. Is not required for sex determination and/or differentiation in embryonic development. Also not involved in symmetric somite formation and hence does not regulate the laterality pathway that controls left-right asymmetric organ positioning.[UniProtKB/Swiss-Prot Function]</p>