

Product datasheet for **MC219010**

Dmrt2 (NM_145831) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dmrt2 (NM_145831) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dmrt2
Synonyms:	Terra
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC219010 representing NM_145831
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACGGAAGGGCAGGCAGTCCCAGGAGTCGGGGACTGGGAGATCGACGTGGAAAGCCTAGACCTGGAGG
AAGATAGCTGTGGGACTCCACTGCGGGCCACGCCCGCAGGAACCCAGTCCGGCGCGGCCGATGGGGA
GGAGGACGAGGACGAAGAAGAGGAGGATGAAGATGTGGAGGACGAGGGTACGGCGAGGAGCCCGCGCTG
TCCTCGGAGGTGCCAGGCCGCCAGAGCAGCCGGGGACTGGCACCCAGGCCACCGCTGCTGCTCAGG
CGCTGCCAGCCGCCGCCGCCCTGAGCGCGGTGCCACCGCGGTGGCGGCGCAGAGCCGCGCAA
GAGCCGCACACCAAGTGCACGCTGCCGAACCACGGCGTGGTATCCTGTCTCAAGGGCCACAAGCGA
TTCTGTCGCTGGCGGGACTGCCAGTGCGCCAATGCCTGCTGGTGGTGGAGCGCCAGCGTGCATGGCCG
CCCAGGTGGCGCTCCGGAGGCAGCAGGCCACAGAGGACAAGAAGGGGCTTCTGGGAAACAGAACAATTT
CGATCGGAAAGCAGTGTACCAGAGGCAAGTCAGGGCGCCGAGTTTCTGGCCAAAAGCATTTTAGAAGT
TATCGCCCAATGACGGCAGAGACTTACCTAGGAGGGACCTTCCCTACCTCCGCTGTCTGACGAGGA
TGAGGAAGAGAAGAGCCTTTGCTGACAAGGAGTTGGAGAACATTATGCTGGAGAGAGAATAAAAGAGAG
GGAGATGTTAGAAACATCTCAAGCTGCTGCCTTATTCCTGCCAACCGTATGGTGCCTGGACCCGAGTAC
AGTTCTACAAAGGTACCTACAGCCCACTGCAGGAGAGCTGCCGAGCAAGGACTTCTGTAACTTTTTAC
CTACCTGCCTTGATCTCACCATGCAGTATTCAGGGTCTGGGAATATGGAACCTATTTCTTCTAACGTCAG
TGTGGCCACAACCTACAGACAATATCCCCTGCTCCTCACGATTTTTAGTTTGGCCCAAGTGCAGTCCCATT
AGTGACACCCTTCTCTACCAGCAATATCTGTTAAATGCTACCCTTCTGTCCAAGCTCTGAAGCCGGGGA
CCGGCTGGGACTTGAAAGGAACCCGAGTTCAGGATGGCTTAGCGCAGAGCAAGACATGATGCCACCCAA
ACTGGAAGGCTCTCTGGTCTGCCCATCTGCCAGAGGTCCAGCCTCGAGAACAGACCTTCAGGTTCCAC
CAGGTGGTTCCAGAGAGGTCTGCCTTCTCCCCACCGGTGCGAATTTCTCTCCATTGTTGATATGGACT
GCCTGGCAGCTCAAGGGCACGTCTTAACCAAGCTCAGCAAAGAAAACACTAGACCTTCTCTGCCACTTAA
AACTAATCCATTCCACTCAGTATTCAGCAGACGCTCAGCGACAAATCAGGCCCTGAGTTGAACGCACCA
TTTGTCAAAGAAGCCTTTGAAGAGACCCCAAAGAAACACAGAGAGTGTGGTCAAGGAGAGCCAGAAGT
ACACATTTACAATAGACAGATGCGCAAAGACCTTTTGTAGCCAAACAAGTTGGAACGAACTTTCGGC
GAATGAGCCACTGTCGTTCTCTGTGCAATCTATTCTTAAGAGGCCTTCATCTGCCGTCACCTCACGCTCT
CAGTAA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_145831
Insert Size: 1686 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](#)

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_145831.3](#), [NP_665830.1](#)

RefSeq Size: 2337 bp

RefSeq ORF: 1686 bp

Locus ID: 226049

UniProt ID: [Q8BG36](#)

Cytogenetics: 19 C1

Gene Summary: 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]