

Product datasheet for **MR225591**

Dmrt2 (NM_145831) Mouse Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>MR225591 representing NM_145831
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGACGGAAGGGCAGGCAGTCCCAGGAGTCCGGGACTGGGAGATCGACGTGGAAGCCTAGACCTGGAGG
 AAGATAGCTGTGGGACTCCACTGCGGGCCACGCCCGCAGGAACCCAGTCCGGCGCGGCCGATGGGGA
 GGAGGACGAGGACGAAGAAGAGGAGGATGAAGATGTGGAGGACGAGGGTACGGCGAGGAGCCCGCGCTG
 TCCTCGGAGGTGCCAGGCCGCCAGAGCAGCCGGGGACTGGCACCCAGGCCACCCTGCTGCTCAGG
 CGCTGCCAGCCGCCCGCCGCCCTGAGCGCGGTGCCACCGCCGGTGGCGGCGCAGAGCCGCGAACT
 GAGCCGCACACCAAGTGCACGCTGCCGAACCAGGCGTGGTATCCTGTCTCAAGGGCCACAAGCGA
 TTCTGTCGCTGGCGGACTGCCAGTGCGCCAATGCCTGCTGGTGGTGGAGCGCCAGCGTGCATGGCCG
 CCCAGGTGGCGCTCCGGAGGCAGCAGGCCACAGAGGACAAGAAGGGGCTTCTGGGAAACAGAACAATTT
 CGATCGGAAAGCAGTGTACCAGAGGCAAGTCAGGGCGCCGAGTTTCTGGCCAAAAGCATTTTAGAAGT
 TATCGCCCAATGACGGCAGAGACTTACCTAGGAGGGACCTTCTCTACCTCCGCCGTGTCAGTGACAGGA
 TGAGGAAGAGAAGAGCCTTTGCTGACAAGGAGTTGGAGAACATTATGCTGGAGAGAGAATAAAAGAGAG
 GGAGATGTTAGAAACATCTCAAGCTGCTGCCTTATTCCTGCCAACCGTATGGTGCCTGGACCCGAGTAC
 AGTTTCTACAAAGGTACCTACAGCCCACTGCAGGAGAGCTGCCGAGCAAGGACTTCTGTAACTTTTTAC
 CTACCTGCCTTGATCTCACCATGCGATATTCAGGGTCTGGGAATATGGAACCTATTTCTTCTAACGTCAG
 TGTGGCCACAACCTACAGACAATATCCCCTGTCTCACGATTTTTAGTTTGGCCCAAGTGCAGTCCCATT
 AGTGACACCTTCTCTACCAGCAATATCTGTTAAATGCTACCACCTCTGTCCAAGCTCTGAAGCCGGGGA
 CCGGCTGGGACTTGAAGGAACCCGAGTTCAGGATGGGCTTAGCGCAGAGCAAGACATGATGCCACCCAA
 ACTGGAAGGCTCTCTGGTCTGCCCATCTGCCAGAGGTCAGCCAGCTCGAGAACAGACCTTCAGGTTTAC
 CAGGTGGTTCCAGAGAGTCTGCCTTCTCCCCACCCGGTCGGAATTTCTCTCCATTGTTGATATGGACT
 GCCTGGCAGCTCAAGGGCACGTCTTAACCAAGCTCAGCAAGAAAACACTAGACCTTCTCTGCCACTTAA
 AACTAATCCATTCCACTCAGTATTCAGCAGACGCTCAGCGACAATCAGGCCCTGAGTTGAACGCACCA
 TTTGTCAAAGAAGCCTTTGAAGAGACCCCAAAGAAACACAGAGAGTGTGGTCAAGGAGAGCCAGAAGT
 ACACATTTACAATAGACAGATGCGCAAAAGACCTTTTGTAGCCAAACAAGTTGGAACGAACTTTCGGC
 GAATGAGCCACTGTCGTTCTCTGTGCAATCTATTCTTAAGAGGCCTTCATCTGCCGTCACCTACGCTCT
 CAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR225591 representing NM_145831
 Red=Cloning site Green=Tags(s)

MTEGQAVPGVDWEIDVESLDLEEDSCGTPLRATPPQEPSPAAADGEEDEDEEEDEDEVEDEGDGEEPGV
 SSEVPGRPEQPGGLAPRPPPAQAALPAAAAAPERGATAGGGAEPKLSRTPKCARCRNHGVVSLKGHKR
 FCRWRDCQCANLLVVERQVRMAAQVALRRQATEDKKGLSGKQNNFDRKAVYQRQVRAPSLAKSILEG
 YRPMTAETYLGGTLPPLPPVSDRMRKRRAFADKELENIMLEREYKEREMLETSQAAALFLPNRMVPGPEY
 SSYKGTYSPTAGELPSKDFCNLPTCLDLTMQYSGSGNMELISSNVSVATTYRQYPLSSRFLVWPCKGPI
 SDTLLYQQYLLNATTSVQALKPGTGWDLKGRVQDGLSAEQDMMPPKLEGLVLPPLPEVPAASRTDLQVH
 QVVPERSAFSPPGRNFSPIVMDCLAAQGHVLTSLKENTRPSLPLKTNPFHVSFQQTLSDKSGPELNAP
 FVKEAFEETPKKHRECLVKEYSQYFTTIDRCAKDLFVAKQVGTLSANEPLSFSVESILKRPSSAVTHVS
 Q

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9030_g02.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

ACCN: NM_145831

ORF Size: 1683 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.

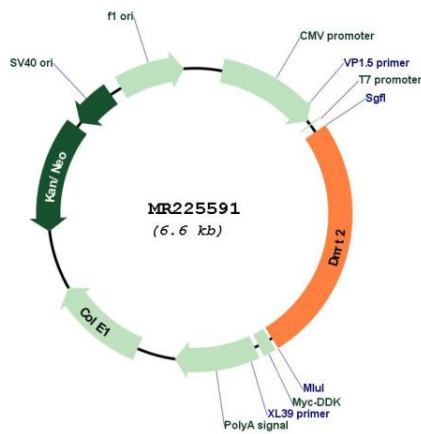
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_145831.3, NP_665830.1](#)
RefSeq Size: 2337 bp
RefSeq ORF: 1686 bp
Locus ID: 226049
UniProt ID: [Q8BG36](#)
Cytogenetics: 19 C1
MW: 62.1 kDa

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]

Product images:



Circular map for MR225591