

Product datasheet for MR204805

Dmrt2 (BC027669) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dmrt2 (BC027669) 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)
ORF Nucleotide Sequence:	>MR204805 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGGAAGAGAAGACCTTTGCTGACAAGGAGTTGGAGAACATTATGCTGGAGAGAGAATATAAAGAGA
GGGAGATGTTAGAAACATCTCAAGCTGCTGCCTTATTCTGCCCAACCGTATGGTGCCTGGACCCGAGTA
CAGTTCCTACAAAGGTACCTACAGCCCCACTGCAGGAGAGCTGCCGAGCAAGGACTTCTGTAACCTTTTA
CCTACCTGCCTTGATCTCACCATGCAGTATTCAGGGTCTGGGAATATGGAACCTATTCTTCTAACGTCA
GTGTGGCCACAACCTACAGACAATATCCCCTGTCTCACGATTTTAGTTTGGCCCAAGTGGGTCCCAT
TAGTGACACCTTCTCTACCAGCAATATCTGTTAAATGCTACCCTTCTGTCCAAGCTCTGAAGCCGGGG
ACCGGCTGGGACTTGAAAGGAACCCGAGTTCAGGATGGGCTTAGCGCAGAGCAAGACATGATGCCACCCA
AACTGGAAGGCTCTCTGGTGCTGCCCATCTGCCAGAGGTCCCAGCCTCGAGAACAGACCTTCAGGTTCA
CCAGGTGGTTCAGAGAGGTCTGCCTTCTCCCCACCCGGTCGGAATTTCTCTCCATTGTTGATATGGAC
TGCCTGGCAGCTCAAGGGCACGTCTTAACCAAGCTCAGCAAAGAAAACACTAGACCTTCTCTGCCACTTA
AACTAATCCATTCCACTCAGTATTCAGCAGACGCTCAGCGACAATCAGGCCCTGAGTTGAACGCACC
ATTTGTCAAAGAAGCCTTTGAAGAGACCCAAAGAAACACAGAGAGTGTGGTCAAGGAGAGCCAGAAG
TACACATTTACAATAGACAGATGCGCAAAGACCTCTTTGTAGCCAAACAAGTTGGAACGAACTTTCCG
CGAATGAGCCACTGTCTGCTGTGCAATCTATTCTTAAGAGGCCTTCATCTGCCGTCACTCACGTCTC
TACG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >MR204805 protein sequence
Red=Cloning site Green=Tags(s)

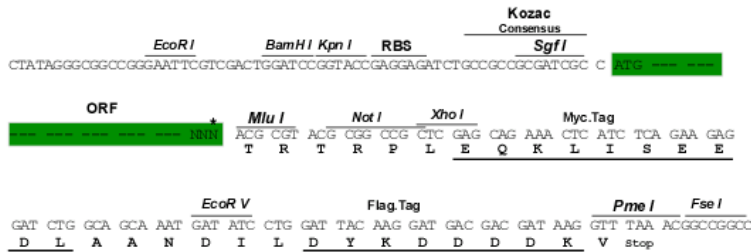
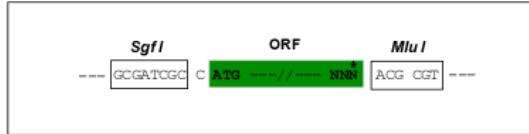
MRKRRAFADKELENIMLEREYKEREMLETSQAAALFLPNRMVPGPEYSSYKGTYSPTAGELPSKDFCNFL
 PTCLDLTMQYSGSGNMELISSNVSVATTYRQYPLSSRFLVWPKCGPISDTLLYQQYLLNATTSVQALKPG
 TGWDLKGRVQDGLSAEQDMPPKLEGLSLVPLHLPPEVPASRTDLQVHQVVPERSAF SPPGRNFSPIVDM
 CLAAQGHVLTKLKENTRPSLPLKTNPFHVSFVQQTLSKSGPELNAPFVKEAFEETPKKHRECLVKESQK
 YFTIDRCAKDLFVAKQVGTKLSANEPLSFSVESILKRPSSAVTHVSQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: BC027669

ORF Size: 984 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: [BC027669](#), [AAH27669](#)

RefSeq Size: 1304 bp

RefSeq ORF: 986 bp

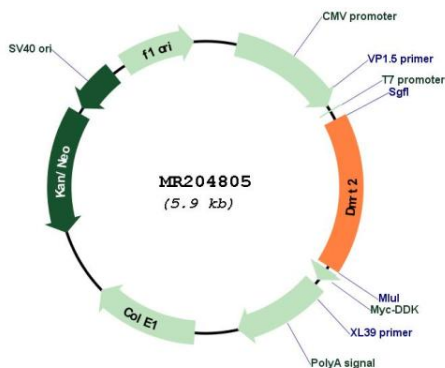
Locus ID: 226049

Cytogenetics: 19 C1

MW: 36.6 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 MR204805