

Product datasheet for MC209870

Dmrt1 (NM_015826) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dmrt1 (NM_015826) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Dmrt1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC209870 representing NM_015826 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGCCGAACGACGACACATTCGGCAAGCCCTCTACCCCGACGGAGGTTCTCACGCTCCCGGGGCCCCGC
CGCAGGGCAAAGCCGGAGGTTACAGCAAAGCTGCCGGGGCGATGGCTGGAGCGGCTGGAGGCTCGGGCGC
GGGGGGCAGCGGAGGTGCCTCGGGCTCCGGGCCGTCGGGCTGGGTTCTGGAAGCAAGAAGTCCCGAGG
CTGCCAAATGCGCTCGCTGCAGGAACACGGCTACGCGTCGCCGCTCAAGGGCCACAAGCGCTTCTGCA
TGTGGCGGGATTGCCAGTGCAAGAAGTGCAGCCTGATTGCGGAGCGCAGCGGGTGATGGCCGCGCAGGT
GGCCCTGAGAAGACAGCAGGCCAGGAAGAAGAACTGGGTATCAGCCACCCAATTCGCTGCCAGCGCA
GCCGAGCTCCTGGTCAAAGAGAGAATAATGCCAGCAACCCGTGCCTGATGGCCGAGAACAGCAGCTCTG
CCCAGCCCCACCGGCCAGCACCCCAACCCCGCTGCCTCAGAGGGACGCATGGTCATCCAGGATATTCC
TGCTGTCACCAGCAGAGGGCATAATGGAGAACACATCTGACCTGGTATCAGACCCCGCCTACTACAGCAGC
TTTTACCAGCCTTCTGTTTCTTACTACAACAATCTGTACAACCTACCCCGATTTCCATGGCCTTGT
CTGCTGAGTCTCCTCAGGGGAGGTGGGAATTCCTCGGGGATCCCCCGTGAAGAACAGCCTGCGGAG
TCTCCCAGCACCTTACGTGCCTGCTCAGACTGAAAACAGTGGCAGATGAAGACCTCAGAGAGCCGCCAC
CCAGTGAGCTCCAGTACCGGATGCACTCATACTACGGGCTCCCTCCTACCTGGCCAGAGCATGTCCC
AGATCTTTACCTTCGAGGAAGGCCCTCTACTCAGAAGCCAAAGCCAGTGTGTTCTCGCCCCCAGCAG
TCAAGATTCTGGCTTGGTCTCCCTCTCCAGCAGCTCTCCGATGAGCAACGAGAGCTCGAAGGGAGTTCTG
GAATGTGAGTCTGCGTCTCGGAACCTAGCAGCTACGCCGTCAACCAGGTCTGGAAGAGGATGAGGACG
AGTGAAGCGGACCG

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC
TGGATTACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-RsrII



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ACCN:	NM_015826
Insert Size:	1134 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<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:	NM_015826.5 , NP_056641.2
RefSeq Size:	2251 bp
RefSeq ORF:	1125 bp
Locus ID:	50796
UniProt ID:	Q9QZ59
Cytogenetics:	19 B
Gene Summary:	Transcription factor that plays a key role in male sex determination and differentiation by controlling testis development and male germ cell proliferation. Plays a central role in spermatogonia by inhibiting meiosis in undifferentiated spermatogonia and promoting mitosis, leading to spermatogonial development and allowing abundant and continuous production of sperm. Acts both as a transcription repressor and activator: prevents meiosis by restricting retinoic acid (RA)-dependent transcription and repressing STRA8 expression and promotes spermatogonial development by activating spermatogonial differentiation genes, such as SOHLH1. Also plays a key role in postnatal sex maintenance by maintaining testis determination and preventing feminization: represses transcription of female promoting genes such as FOXL2 and activates male-specific genes. May act as a tumor suppressor. May also play a minor role in oogenesis.[UniProtKB/Swiss-Prot Function]