

Product datasheet for **SC307390**

DMRT2 (NM_181872) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DMRT2 (NM_181872) Human Untagged Clone
Tag:	Tag Free
Symbol:	DMRT2
Synonyms:	DSXL-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_181872, the custom clone sequence may differ by one or more nucleotides

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ATGGCCGACCCGAGGCTGGCTCCGCGGCCGGGGACTGGGAGATCGATGTCGAGAGCCTGGAGCTGGAAG
AGGACGTCTGCGGGGCGCCGGTCCACGCCCCCGGGCCAGCCCGCCGGCGGACGGGGACTGCGA
GGACGACGAAGATGACGACGGGGTGGACGAAGACGCGGAAGAAGAGGGCGACGGCGAGGAGGCAGGCGCG
TCCCCCGGGATGCCCGGCCAGCCGGAGCAGCGGGGGGACCGCAGCCGAGCCGCGCTCGCGCCTCAGG
CCTCACCCGCGCACCCGGTCCCGAGAGCGCTGCACTCCCGCGGGCGGGCGGGAGCCGCGCAAGCT
GAGCCGCACGCCAAGTGCAGCGCTGCCGAACCACGGCGTGGTGTCTGCCTGAAGGGCCACAAGCGC
TTCTGTGCTGGCGGACTGCCAGTGCGCCAAGTCCCTGCTGGTGGAGCGGAGCGCGTATGGCCG
CCCAGGTGGCGCTCCGGAGGCAGCAGGCCACCGAGGACAAGAAGGGGCTTCCGGAAACAGAATAATTT
CGAGCGCAAGGTGTGTACCAGAGGCAAGTCAGAGCCCCAGTTTGTGGCCAAAAGCATTTTAGAAGGC
TATCGCCCCATTCAGCGGAGACTTATGTAGGAGGGACCTTCCCTCTACCTCCCCAGTTAGTGACAGGA
TGAGGAAAAGAAGAGCCTTTGCTGATAAAGAGTTGGAGAACATTATGCTGGAGAGAGAATATAAAGAAAG
GGAGATGTTGAAACTTCTCAAGCTGCTGCTGTTTTCTGCCAACCGCATGGTGCCTGGACCTGACTAC
AATTCCTACAAAAGTGCCTACAGCCCCAGCCAGTGAACCACCAAGCAAGGACTTCTGTAATTTTTTGC
CCACCTGCCTTGATTTAACCATGCAAGTATCCAGGTCTGGGAATATGAACTAATTTCTTAATGTCAG
CGTGGCCACAACCTATAGACAGTATCCCTGTCTCAAGATTTTGTGGCCAAAGTGTGGCCCCATT
AGCGACACCCTCCTCTACCAGCAATGCCTGCTAAATGCCACCACCTCAGTTCAAGCCCTGAAGCCTGGGG
CCAGCTGGGACTTGAAGGGAGCAGGAGTCCAGGATGGACTCAGTGCAGAGCAGGACATGATGCCATCGAA
ATTGGAAGGTCCCTGGTGTGCTCCTCACACTCCTGAGATCCAGACCACGAGAAGTGACCTTCAGGGTTCAT
CAGGCTGTCCCAGAGAGGTCGCGTCTCCCCACCCGACGGAATTTCTCCATTGTTGACACGGACT
CCCTGGCAGCTCAAGGGCATGTCTTAACGAAGATCAGCAAAGAAAACACCAGGCACCTCTGCCACTTAG
ACATAATCCATTCCACTATTATTCCAGCAAACACTTACTGACAAATCGGGTCTGAGTTGAAAACACCA
TTTGTCAAAGAGGCCTTTGAAGAGACCCCTAAGAAAACACAGAGAGTGTGTTAGTTAAGGACAACCAGAAGT
ACACATTTACAATAGATAGATGTGCAAAAGACCTTTTTGTAGCCAAACAAGTTGGAACAAAACCTCTCGGT
GAATGAACCACTGTCATTTTCTGTTGAGTCTATTCTTAAGAGGCCTTCATCTGCCATCACTCGTGTCTCT
CAGTGA
    
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Restriction Sites: Please inquire

ACCN: NM_181872

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_181872.1 , NP_870987.1
RefSeq Size:	1969 bp
RefSeq ORF:	1686 bp
Locus ID:	10655
UniProt ID:	Q9Y5R5
Cytogenetics:	9p24.3
Protein Families:	Transcription Factors, Transmembrane
Gene Summary:	<p>The protein encoded by this gene belongs to the DMRT gene family, sharing a DM DNA-binding domain with <i>Drosophila</i> 'doublesex' (dsx) and <i>C. elegans</i> mab3, genes involved in sex determination in these organisms. Also, this gene is located in a region of the human genome (chromosome 9p24.3) associated with gonadal dysgenesis and XY sex reversal. Hence this gene is one of the candidates for sex-determining gene(s) on chr 9. [provided by RefSeq, Apr 2010]</p> <p>Transcript Variant: This variant (3) uses an alternate acceptor splice site at the 3' terminal exon compared to variant 1, resulting in a longer isoform (2) with a distinct C-terminus compared to isoform 1.</p>