

## Product datasheet for **SC325629**

### DMRT2 (NM\_001130865) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DMRT2 (NM_001130865) Human Untagged Clone
Tag:	Tag Free
Symbol:	DMRT2
Synonyms:	DSXL-2
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001130865, the custom clone sequence may differ by one or more nucleotides ATGGCCGACCCGACGGCTGGCTCCGCGGCCGGGACTGGGAGATCGATGTCGAGAGCCTG GAGCTGGAAGAGGACGTCTGCGGGGCGCCGCGTCCACGCCCCCGGGCCAGCCCGCCG CCGGCGGACGGGACTGCGAGGACGACGAAGATGACGACGGGTGGACGAAGACGCGGAA GAAGAGGGCGACGGCGAGGAGGCAGGCGCGTCCCCGGGATGCCCGCCAGCCGGAGCAG CGGGGGGACCCGAGCCGAGGCCCGCTCGCGCCTCAGGCCTCACCCGCCGACCCGGT CCCCGAGAGCGCTGCACTCCCGGGGCGGCGCGGAGCCGCGCAAGCTGAGCCGCACG CCCAAGTGC GCGCTGCCGCAACCACGCGTGGTGTCTCCTGCCTGAAGGGCCACAAGCGC TTCTGTGCTGGCGGACTGCCAGTGCGCCAACTGCCTGCTGGTGGTGGAGCGGCAGCGC GTCATGGCCGCCAGGTGGCGCTCCGGAGGCAGCAGGCCACCGAGGACAAGAAGGGGCTT TCCGGGAAACAGAATAATTTTCGAGCGCAAAGCTGTGTACCAGAGGCAAGTCAGAGCCCC AGTTTGTGGCCAAAAGCATTTTAGAAGTTCTCCTGGATTATTCTACAGCTATTATGTG TACATAATGAACCATCTT
Restriction Sites:	Please inquire
ACCN:	NM_001130865
Insert Size:	2383 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).
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).



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**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\\_001130865.1](#), [NP\\_001124337.1](#)

**RefSeq Size:** 2383 bp

**RefSeq ORF:** 681 bp

**Locus ID:** 10655

**UniProt ID:** [Q9Y5R5](#)

**Cytogenetics:** 9p24.3

**Protein Families:** Transcription Factors, Transmembrane

**Gene Summary:** The protein encoded by this gene belongs to the DMRT gene family, sharing a DM DNA-binding domain with *Drosophila* 'doublesex' (dsx) and *C. elegans* 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]

Transcript Variant: This variant (2) differs at the 5' and 3' ends compared to variant 1. Variants 1, 2, 4, and 6 all encode the same isoform (1).