

## Product datasheet for **RG225278**

### DMRT2 (NM\_001130865) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	DMRT2 (NM_001130865) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DMRT2
Synonyms:	DSXL-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG225278 representing NM_001130865 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCCGACCCGCAGGCTGGCTCCGCGGCCGGGACTGGGAGATCGATGTCGAGAGCCTGGAGCTGGAAG  
AGGACGTCTGCGGGGCGCCGGTCCACGCCCCCGGGCCAGCCCGCCGCGCGGACGGGACTGCGA  
GGACGACGAAGATGACGACGGGTGGACGAAGACCGGAAGAAGAGGGCGACGGCGAGGAGGCAGGCGCG  
TCCCCGGGATGCCCGGCCAGCCGGAGCAGCGGGGGGACCGCAGCCGAGGCCCGCTCGCGCCTCAGG  
CCTCACCCGCGCCACCGGTCCCGAGAGCGCTGCACTCCGCGGGCGGCGGCGGAGCCGCGCAAGCT  
GAGCCGCACGCCCAAGTGCAGCGCTGCCGCAACCACGGCGTGGTGTCTGCCTGAAGGGCCACAAGCGC  
TTCTGTCGCTGGCGGACTGCCAGTGCGCCAAGTGCCTGCTGGTGGTGGAGCGGCAGCGCTCATGGCCG  
CCCAGGTGGCGCTCCGGAGGCAGCAGGCCACCGAGGACAAGAAGGGGCTTCCGGGAAACAGAATAATTT  
CGAGCGCAAAGCTGTGTACCAGAGGCAAGTCAGAGCCCCAGTTTGTGGCCAAAAGCATTTTAGAAGTT  
CTCCTTGATTATTCTACAGCTATTATGTGTACATAATGAACCATCTT

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG225278 representing NM\_001130865  
 Red=Cloning site Green=Tags(s)

MADPQAGSAAGDWEIDVESLELEEDVCGAPRSTPPGSPPPADGDCEDDEDDGVDEDAEEEGDGEEAGA  
 SPGMFGQPEQRGGPQPRPPLAPQASAPAGTGP RERCTPAGGGAEPKLSRTPKCARCRNHGVVSLKGHKR  
 FCRWRDCQCANCLLVVERQRVMAAQVALRRQATDDKKGLSGKQNNFERKAVYQRQVWRAPSLLAKSILEV  
 LLGLFYSYVVYIMNHL

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001130865

**ORF Size:** 678 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:** [NM\\_001130865.2](#), [NP\\_001124337.1](#)

**RefSeq Size:** 2383 bp

**RefSeq ORF:** 681 bp

**Locus ID:** 10655

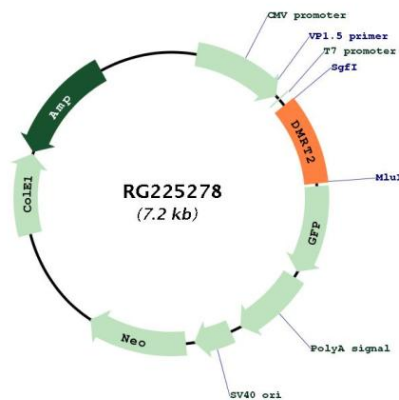
**UniProt ID:** [Q9Y5R5](#)

**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]

### Product images:



Circular map for RG225278