

## Product datasheet for RC221391

### DMRT2 (NM\_006557) Human Tagged ORF Clone

#### Product data:

Product Type: Expression Plasmids  
 Product Name: DMRT2 (NM\_006557) Human Tagged ORF Clone  
 Tag: Myc-DDK  
 Symbol: DMRT2  
 Synonyms: DSXL-2  
 Mammalian Cell Selection: Neomycin  
 Vector: pCMV6-Entry (PS100001)  
 E. coli Selection: Kanamycin (25 ug/mL)  
 ORF Nucleotide Sequence: >RC221391 representing NM\_006557  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGATCGCC

ATGGCCGACCCGAGGCTGGCTCCGCGGCCGGGACTGGGAGATCGATGTCGAGAGCCTGGAGCTGGAAG  
 AGGACGTCTGCGGGCGCCCGGTCCACGCCCCCGGGCCAGCCCGCCGCGCGGACGGGACTGCGA  
 GGACGACGAAGATGACGACGGGTGGACGAAGACGCGGAAGAAGAGGGCGACGGCGAGGAGGCAGGCGCG  
 TCCCCGGGATGCCCGGCCAGCCGGAGCAGCGGGGGGACCGCAGCCGAGGCCCGCTCGCGCCTCAGG  
 CCTCACCCGCGCCACCGGTCCCGAGAGCGCTGCACTCCGCGGGCGGGCGCGGAGCCGCGCAAGCT  
 GAGCCGCACGCCAAGTGCAGCGCTGCCGCAACCACGGCGTGGTGTCTGCCTGAAGGGCCACAAGCGC  
 TTCTGTCGCTGGCGGACTGCCAGTGCGCCAAGTGCCTGCTGGTGGTGGAGCGGCAGCGCTCATGGCCG  
 CCCAGGTGGCGCTCCGGAGGCAGCAGGCCACCGAGGACAAGAAGGGGCTTCCGGGAAACAGAATAATTT  
 CGAGCGCAAAGCTGTGTACCAGAGGCAAGTCAGAGCCCCAGTTTGTGGCCAAAAGCATTTTAGAAGTT  
 CTCCTTGGATTATTCTACAGCTATTATGTGTACATAATGAACCATCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC221391 representing NM\_006557  
Red=Cloning site Green=Tags(s)

MADPQAGSAAGDWEIDVESLELEEDVCGAPRSTPPGSPPPADGDCEDDEDDGVEDAEEEGDGEEAGA  
 SPGMPPQPEQRGGPQPRPLAPQASPAGTGP RERCTPAGGGAEPKLSRTPKCARCRNHGVVSLKGHKR  
 FCRWRDCQCANCLLVVERQQRVMAAQVALRRQATKGLSGKQNNFERKAVYQRQVWRAPSLLAKSILEV  
 LLGLFYSYVYIMNHL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_006557

**ORF Size:** 678 bp

**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](mailto: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 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\\_006557.7](#)

**RefSeq Size:** 2944 bp

**RefSeq ORF:** 681 bp

**Locus ID:** 10655

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

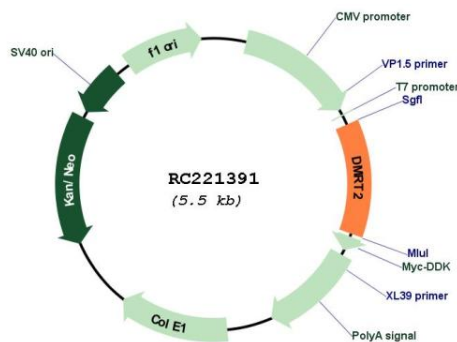
**Cytogenetics:** 9p24.3

**Protein Families:** Transcription Factors, Transmembrane

**MW:** 24.5 kDa

**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 RC221391