

Product datasheet for **RG208108**

DMRT1 (NM_021951) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DMRT1 (NM_021951) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DMRT1
Synonyms:	CT154; DMT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG208108 representing NM_021951 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCAACGACGAGGCATTAGCAAGCCCTACACCGTCGGAAGCCCTCACGCCCCGGGTACCGC
CGCAGGGCAGAGCCGGGGCTTTGGCAAAGCGTCTGGGGCGCTAGTGGGGCGGCCAGCGGCTCGAGCGC
CGGGGGCAGCAGCAGAGGAGCGGCTCCGGCTCCGGGGCGTCGGACCTGGGTGCCGGGAGCAAGAAGTCC
CCGCGGCTGCCAAGTGCACGCTGCAGGAACACGGCTACGCCTCGCCGCTCAAGGGCCACAAGCGT
TCTGCATGTGGCGGACTGCCAGTGCAAGAAGTGAACCTGATCGCCGAGAGGCAGCGCGTATGGCCGC
GCAGGTGGCCCTGAGAAGGCAGCAGGCCAGGAGGAGGAATTGGGTATCAGCCACCCATCCCAGTCCCGC
AGTGGCGCGGAGCTGCTTGTCAAAGAGAGAACAATGGCAGTAACCCGTCGCTCATGACTGAGTGCAGTG
GCACCTCTCAGCCACCGCGCCAGTGTCCCCACCACTGCAGCTTACAGAGGGACGTATGGTCATCCAGGA
TATTCCTGCTGTACACGAGAGGGCATGTGGAGAACACACCTGACCTGGTTTCAGACTCCACCTACTAC
AGCAGTTCTACAGCCGCTCTGTTTCCTTATTACAACAATCTATACTGCCCAGTACTCCATGG
CCTTGGCTGTGATTCTGCTTCTGGGGAGGTGGGAAATCCCTCGGGGGATCCCTGTGAAGAACAGCCT
TCGGGGCCTCCCGGACCTTATGTGCCTGGTCAGACAGGAAACAGTGGCAGATGAAGAACATGGAGAAC
CGCCATGCAATGAGCTCCAGTACAGGATGCATTCTTACTACCGCCCTCCCTTTACCTGGGCCAGAGCG
TGCCCCAGTTCTCACTTTTGGAGATGCTCCCTTACCGGAAAGCCAGGGCGAGCGTATTCTCGCCGCC
CAGCAGTCAAGATTCTGGCTTGGTTTCCCTCTCGAGCAGCTCTCTATTAGTAACAAGAGCACAAAGGCA
GTGCTTGAATGTGAGCCTGCGTCGGAGCCAGCAGCTTACAGTCACTCCGTCATCGAGGAGGACGAG

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG208108 representing NM_021951
 Red=Cloning site Green=Tags(s)

MPNDEAFSKPSTPSEAPHAPGVPPQGRAGGF GKASGALVGAASGSSAGGSSRGGGSGSGASDLGAGSKKS
 PRLPKCARCRNHGYASPLKGHKRF CMWRDCQCKKCNLIAERQVRMAAQUALRRQQAQEEELGISHP IPLP
 SAAELLVKRENGSNPCLMTECSGTSQPPASVPTTAAASEGRMVIQDIPAVTSRGHVENTPDLVSDSTYY
 SSFYQPSLFPYYNNLYNCPQYSMALAADSASGEVGNPLGGSPVKNSLRGLPGPYVPGQTGNQWQMKNMEN
 RHAMSSQYRMHSYPPPSYLGQSV PQFFTFEDAPSYPEARASVF SPPSSQD SGLVLS SSSSPI SNKSTKA
 VLECEPASEPSSFTVTPVIEEDE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_021951

ORF Size: 1119 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_021951.3](#)

RefSeq Size: 2229 bp

RefSeq ORF: 1122 bp

Locus ID: 1761

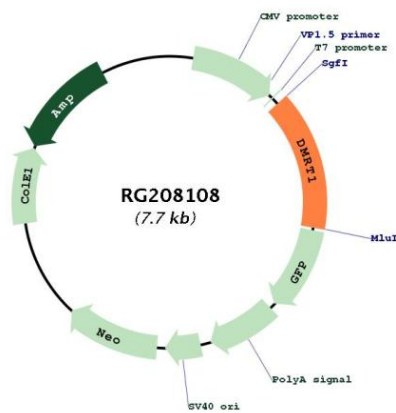
UniProt ID: [Q9Y5R6](#)

Cytogenetics: 9p24.3

Protein Families: Druggable Genome, Transcription Factors

Gene Summary: This gene is found in a cluster with two other members of the gene family, having in common a zinc finger-like DNA-binding motif (DM domain). The DM domain is an ancient, conserved component of the vertebrate sex-determining pathway that is also a key regulator of male development in flies and nematodes. This gene exhibits a gonad-specific and sexually dimorphic expression pattern. Defective testicular development and XY feminization occur when this gene is hemizygous. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG208108