

Product datasheet for **RR202204**

Dmrt2 (NM_001107597) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dmrt2 (NM_001107597) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Dmrt2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR202204 representing NM_001107597
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAAGGGCAGGCAGTCCCCGGAGTTGGGGACTGGGAGATCGACGTGGAGAGCCTAGAGCTGGAGGAGG
 ATGGCTGTGGACACCGTTGCGGGCCACGCCACAGGAACCCAGTCCGTGACGGCCGATGGAGAGGAAGA
 TGAGGACGAAGAAGAGGAAGATGAAGATGCAGAGGATGAGGGTGAAGGCGAGGACTCCAGCGCGTCCCCG
 GAGGTACCAGGTCGGCCAGAGCAGCCCGGGGGACTGGCACCCAGGCCACCGCCGCTGCTCAGGCCTGC
 CAGCCGCCCGGTAGTCCCCGAGCGCGTGTACCGCCGGTGGCGGCGCAGAGCCCCGTAAGTCTGAGCCG
 CACGCCAAGTGCACGCTGCCGTAACCACGGCGTGGTGTCTGTCTCAAGGGCCACAAGCGATTCTGT
 CGCTGGCGGGACTGCCAGTGCGCCAAGTGCCTGCTTGTGGTAGAGCGCCAGCGATCATGGCCGCCAGG
 TGGCGCTCCGGAGGCAGCAGGCCACAGAGGACAAGAAGGGGCTTCTGGGAAACAGAATAATTTTCGATCG
 GAAAGCAGTGTACCAGAGCAAGTCAAGGCGCCAAAGCTTCTGGCCAAAAGCATTCTTAGAAGGGTACCGC
 CCAATGACGGCGCCGAGACTTACTAGGAGGGACCTTCCCCTACCCCGCCTGTCAAGTACAGGATGA
 GGAAGAGAAGAGCATTGCTGACAAGGAGTTGGAGAACATTATGCTGGAGAGAGAATATAAAGAGAGGGA
 GATGTTAGAAACATCTCAAGCCGCTGCCTGTTTCTGCCAATCGCATGGTGGCCGGCCTGAGTACAGT
 TCCTACAAAGGTGCCTTCAGCCCCAGCGCAGGCGAGCTGCCGAGCAAGGACTTCTGTAACTTTTTACCTA
 CCTGTCTCGATCTCACCATGCAGTATTCAGGGTCTGGGAATATGGAAGTATTTCTTCAATGTCAGCGT
 GGCCACAACCTACAGACAATATCCCCTGTCTCGCGATTTTGTCTGGCCAAAGTGGGTCCTTATAGC
 GACACCCCTCCTTACCAGCAATACCTGTTAAATGCTACCACTTCTGTCCAAGCCCTGAAGCTGGGGCCG
 GCTGGGACTTGAAGGAACCCGAGTTCAGGATGGGCTTAGTGCAGAGCATGACGGGATGCCACCCAAAC
 GGAAGGCTCTCTAGTGTGCCTCAACTATCAGAGGTCCCGACCTCAAGAACTGACCTTCAGGCTCACCAG
 GCTGTCCAGAGAGGTCTGCCTTCTCCCAACCGAGCCGGAATTTCTCCCCATTGTTGATATGGACTGTC
 TGGCAGCTCAAGGGCACGTCTTAACCAAGATCAGCAAAGAAAACACTAGGTATCCTCTGCCACTTAAACG
 TAATCCATTCCACTCAGTATTCAGCCGACGCTCAACGACAAATCAGGCCCTGAATTGAAAGCACCGTTT
 GTCAAAGAAGCCTTTGAAGAGACCCGAAGAAACACAGGGAGTGTGGTCAAGGAGAACCCGAAGTACA
 CATTTACAATAGACAGATGCGCAAAGACCTCTCGTAGCCAAACAAGTGAACGAACTCTCGGTGAA
 CGAGCCTCTGCTGTTTTCCGTGGAATCTATTCTAAGAGGCCCTCATCTGCTGCTACTCCCGTCTCTCAG
 CGAGCCTCTGCTGTTTTCCGTGGAATCTATTCTAAGAGGCCCTCATCTGCTGCTACTCCCGTCTCTCAG

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

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 Red=Cloning site Green=Tags(s)

MEGQAVPGVGDWEIDVESLELEEDGCGTPLRATPQEPSPSTADGEEDEDEEEDEDAEDEGEDEDSSASP
 EVPGRPEQPGGLAPRPPPAQALPAAAVPERGVTAGGGAEPKLSRTPKCARCRNHGVVSLKGHKRFC
 RWRDCQCANCLLVVERQVMVAQVALRRQQATEDKKGLSGKQNNFDRKAVYQQRQVRAPSLAKSILEGYR
 PMTAAETYLGGTLPLPPVSDRMRKRAFADKELENIMLEREYKEREMLETSQAAALFLPNRMVPGPEYS
 SYKGAFSPSAGELPSKDFCNFLPTCLDLTMQYSGSGNMELISSNVSVATTYRQYPLSSRFLVWPKGPIS
 DTLLYQQYLLNATTSVQALKPGAGWDLKGRVQDGLSAEHDGMPPKPEGSLVLPQLSEVPTSRDLQAHQ
 AVPERSAFSPPSRNFSP.IVDMDCLAAQGHVLTIKSENTRYPLPLKRNPFHVSFQPTLNDKSGPELKAPF
 VKEAFEETPKKHRECLVKENPKYFTIDRCAKDLFVAKQVGTKLSVNEPLSFSVESILKRPPSAVTPVSQ
 RASVVFRGIYS*EALICHSRLS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

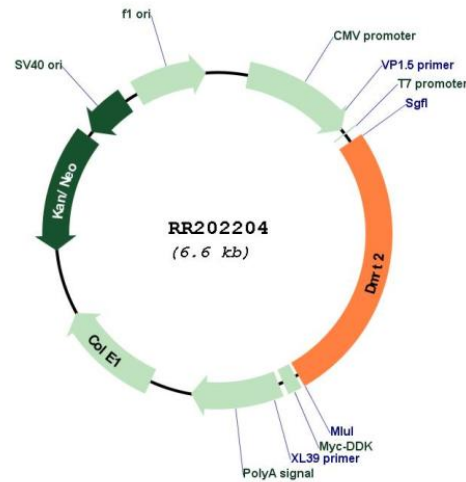
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:

NM_001107597

ORF Size:	1680 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:	<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 Size:	2331 bp
RefSeq ORF:	1683 bp
Locus ID:	309430
Cytogenetics:	1q51
MW:	61.5 kDa