

Product datasheet for **RC216289**

DMRT3 (NM_021240) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DMRT3 (NM_021240) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DMRT3
Synonyms:	DMRTA3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC216289 representing NM_021240
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAACGGCTACGGCTCCCCCTACCTGTACATGGCGGCCCGGTGTCGCAGCCGCCACGGCGCCCTGCG
 AGCGCACGCCAAGTGCAGCGCTGCCCAACCATGGCGTCTGTCTGGCTCAAGGGCCACAAGGTTA
 CTGCCGCTTCAAGGACTGCACCTGCGAGAAGTGCATCCTCATCATCGAGCGGCAGCGGTTCATGGCTGCG
 CAGGTGGCGCTGCGCCGGCAGCAGGCCAACGAGAGCTTGGAGAGCCTCATCCCCGACTCGCTGCGCGCTC
 TGCCAGGGCCCCCGCCGGGGGACGCGCTCGCCGCCCGCAGCCGCCAGCCTCTCAGCCGTCGCA
 GCCGCAGCCGCCCGCCTGCTGCCGAGTTGGCCGCGCCGCCGCTGCGTTGGACTGCCGAGCCGCGAG
 CCCGGGCTCTGCAGGCCAGCTCGCAAGCCAGATTTGACTGAAGAACGACTTGGAGACGGCAAGTCGG
 CAGACAATACAGAGGTCTTCAGTGACAAAGACACTGACCAGAGGAGTTCCCAGATGTGGCAAAGAGTAA
 GGGCTGCTTACCCTGAGAGCCCTGAGATAGTGTCCGTGGAGGAAGGGGATACGCTGTCCAGAAAAAC
 GGAGGCAACCCCGAGAGCCGCCCTGACAGCCCCAAGTGTACGCGGAGCAGAATCACCTCCTGATTGAGG
 GCCCTCGGGACTGTTTCTCTGCCCTTCACTTGAAGCCAACAGACCCCGCTTGAAGTGTAAAAAA
 GATATCCCAACAGAACGCAACGGTGCCTGAGCTCATCCTCAAGGGCTGTGGCGGGGACTGGTGAAGC
 GCCGTGGAAGTCTTCTGTCCAGCCGATCCTCAGTCACGGGAGCAGAGCGAACTCCGCAGAACCTGAGA
 GTCTAGCGTTGCCCTCCAATGGGCACATCTTTGAACACACCTTGAAGTCTACCCCATCTCGTCTTCAA
 ATGGTCTGTGGGATCAGCCTTTCAGAGTCCAGACAGTTGAGGTTTTCTGCCGACTTAGCAACGTTGTC
 CCCAGTCCCTGGCTGGCCCTCGCAGCCCCCTTCCCCAGCCACCCCGGTACCCGCTGATGCTGAGGA
 ATACTTTGGCGAGAAGCCAGTCGAGCCCCCTTTTGGCCCAATGATGTCACCCTGTGGAACACCATGACGCT
 GCAGCAGCAGTATCAGCTGAGGTCCAGTATGTACAGTCTTCCCCAGTAACCTACCAGCGTCTTCAGA
 AGCTCGCCGTCCTTCTGCCCGGCCACGGAAGACCCTCGGATTTCCATCCCTGATGATGGGTGCCAT
 TTGTGTCAAAGCAGTCCATTTACACCGAGGACGACTATGACGAGAGGTCTGACTCCTCAGACTCTAGAAC
 ACTCAACACATCATCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC216289 representing NM_021240
 Red=Cloning site Green=Tags(s)

MNGYGSPYLYMGGPVSQPPRAPLQRTPKCARCRNHGVL SWLKGHKRYCRFKDCTCEKCIL IIERQVRMAA
 QVALRRQQANESLES LIPDSL RALPGPPPGDAVAAPQPPASQPSQPQPPRPAE LAAAAALRWTAEPQ
 PGALQAQLAKPDL TEERLGDGKSADNTEVFSDKDTDQRSSPDVAKSKGCF TPESPEIVSVEEGGYAVQKN
 GGNPESRPDSPKCHAEQNHL LIEGPSGTVSLPFLSKANRPPLEVLK KIFPNQKPTVLEL ILKCGGDLVS
 AVEVLLSSRSSVTGAERTSAEPESLALPSNGHIFEHTLSSYP ISSSKWSVGS AFRVPD LRF SADSSNVV
 PSPLAGPLQPPFPQPPRYPLMLRNTLARSQSSPFLPNDVTLWNTMTLQQYQLRSQYVSPFNSNSTSVFR
 SSPVLPARATEDPRISIPDDGCPFVSKQSIYTEDDYDERSDSSDSRSLNTSS

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8101_d04.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

ACCN: NM_021240

ORF Size: 1416 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_021240.4](#)
RefSeq Size: 2184 bp

RefSeq ORF: 1419 bp

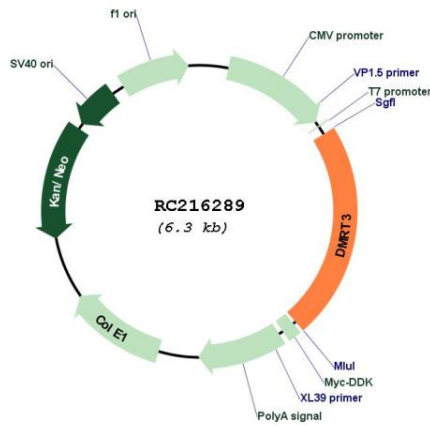
Locus ID: 58524

UniProt ID: [Q9NQL9](#)
Cytogenetics: 9p24.3

MW: 51.2 kDa

Gene Summary: Probable transcription factor that plays a role in configuring the spinal circuits controlling stride in vertebrates. Involved in neuronal specification within specific subdivision of spinal cord neurons and in the development of a coordinated locomotor network controlling limb movements. May regulate transcription during sexual development (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RC216289