

## Product datasheet for **RR200463**

### **Dmd (NM\_012698) Rat Tagged ORF Clone**

#### **Product data:**

|                           |                                      |
|---------------------------|--------------------------------------|
| Product Type:             | Expression Plasmids                  |
| Product Name:             | Dmd (NM_012698) Rat Tagged ORF Clone |
| Tag:                      | Myc-DDK                              |
| Symbol:                   | Dmd                                  |
| Synonyms:                 | DNADMD1                              |
| Mammalian Cell Selection: | Neomycin                             |
| Vector:                   | pCMV6-Entry (PS100001)               |
| E. coli Selection:        | Kanamycin (25 ug/mL)                 |



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**ORF Nucleotide Sequence:**

>RR200463 representing NM\_012698  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGGGAACACCTCAAAGGCCACGAGACCCAAACAACCTGTTGGGACCATCCAAAATGACAGAGCTCT  
 ACCAGTCTTTAGCTGACCTGAATAATGTGACGGTCTCCGCTTATAGGACTGCCATGAAGCTCAGAAGACT  
 CAGAAGGCCCTTTGCTTGATCTCTTGAGCCTGTCAGCTGCATGTGACGCCCTGGACCAGCACAACCTC  
 AAGCAAAATGATCAGCCCATGGATATCCTGCAGATAATTAAGTGTGACTACTTTATGACCGTCTGG  
 AGCAAGAGCACAACAATTTGGTCAATGTCCCTCTCTGTGTGGATATGTGTCTCAACTGGCTTCTCAATGT  
 TTATGATACGGGACGAACAGGGAGGATCCGTGTCTGTCTTTAAAAGTGGCATCATTTCTCTGTGTAAA  
 GCACACTTGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACCGCTTTTGTGACCAGC  
 GTAGACTGGGTCTTCTTCTGCATGATTCTATTCAAATCCCAAGACAGTTGGGTGAAGTTGCCTCCTTTGG  
 GGGCAGTAACATTGAGCCGAGTGTGAGGAGCTGTTCCAGTTTGCCAATAATAAACTGAGATTGAAGCC  
 GCTCTCTTCTTACTGATGCTGTGAAACCCAGTCTATGGTGTGGCTGCCGGTCTTGACAGAGTGG  
 CTGCTGTGAAACAGCCAAGCATCAGGCCAAGTGAACATCTGTAAGGAGTGTCCAATCATTGGATTGAG  
 GTACAGAAGCCTGAAACACTTTAATTATGACATCTGCCAAAGTCTTTTTTTCTGGCCGAGTTGCTAAG  
 GGCCATAAAATGCACTACCCCATGGTAGAGTACTGCACTCCGACTACATCTGGAGAAGATGTTCTGTGACT  
 TTGCCAAGGACTGAAAAACAATTTTGAACCAAAAGGATTTTTCGAAGCATCCCCGAATGGGCTACCT  
 TCCAGTGCAGACTGTGTTAGAGGGGACAAATGGAAACGCCCTGCCTCGTCCCCCAGCTTTCACACGAT  
 GATACTCATTACGCATTGAGCATTATGCTAGCAGGCTAGCAGAAATGGAAAACAGCAATGGATCTTATC  
 TAAATGATAGCATCTCTCTAATGAGAGCATAGATGATGAACATTTGTTAATCCAGCACTACTGCCAAAG  
 TTTGAACCAAGACTCCCCCTGAGCCAGCCTCGTAGTCCTGCCAGATCTTGATTTCTTAGAGAGTGAG  
 GAAAGAGGGGAGCTAGAGAGAATCCTAGCAGATCTTGAGGAAGAAAACAGAAATCTGCAAGCAGAATATG  
 ATCGTCTGAAGCAGCAGCATGAGCATAAAGGCCTGTCCCACTGCCGTCTCCTCCTGAGATGATGCCAC  
 CTCTCCCCAGAGTCCCAGGGATGCTGAACCTATTGCTGAGGCCAAGTACTGCGCCAACACAAGGACGT  
 CTGGAAGCCAGGATGCAAACTCTGGAAGACCACAATAACAACCTGGAGTCTCAGTTACATAGACTGAGGC  
 AGCTCCTGGAGCAACCCAGGCTGAGGCCAAGGTGAATGGCACCACGGTGTCTCTCTCTACCTCGCT  
 GCAGAGGTGAGATAGCAGTACGCTATGCTGCTCCGAGTGGTTGGCAGTCAAACCTCAGAATCTATGGGT  
 GAGGAAGATCTTCTGAGTCTCCCCAGGACACAAGCACAGGGTTAGAAGAAGTATGAGGCAACTCAACA  
 ACTCTTCCCTAGTTCAAGAGGAAGAAATGCCCTGAAAAGCCAATGAGAGAGGACACAATG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR200463 representing NM\_012698  
 Red=Cloning site Green=Tags(s)

MREHLKGHETQTTCDHPKMTLEYQSLADLNNVRFSAYRTAMKLRRLQKALCLDLLSLSAACDALDQHNL  
 KQNDQPMILQIINCLTTIYDRLEQEHNNLVNVPFCVDMCLNWLNNVYDTGRTGRIRVLSFKTGIISLCK  
 AHLEDKYRYLQKQVASTGFCDQRRLLGLLHDSIQIPRQLGEVASFGGSNIEPSVRSCFFANNKPEIEA  
 ALFLDWMRLEPQSMVWLPVLRVAAAETAKHQAKCNICKEPIIGFRYRSLKHFNYDICQSCFFSGRVAK  
 GHKMHPMVEYCTPTTSGEDVDFAKVLKNKFRKRYFAKHPRMGYLPVQTVLEGDNMPASSPQLSHD  
 DTHSRIEHYASRLAEMENSNGSYLNDISIPNESIDDEHLLIQHYCQSLNQDSPLSQPRSPAQILISLESE  
 ERGELERILADLEENRNLQAEYDRLKQQHEHKGLSPLSPPEMMPTSPQSPRDAELIAEAKLLRQHKGR  
 LEARMQILEDHKNQLESQHLRQLLEQPQAEAKVNGTTVSSPSTSLQRSOSSQPMLLRVVGSTSESMG  
 EEDLLSPPQDTSTGLEEVMEQLNNSFPSSRGRNAPGKPMREDTM

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_012698

ORF Size: 1812 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\\_012698.3](#), [NP\\_036830.2](#)

RefSeq Size: 2022 bp

RefSeq ORF: 1815 bp

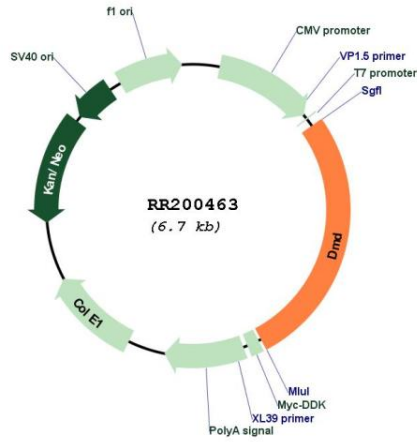
Locus ID: 24907

Cytogenetics: Xq21

MW: 68.9 kDa

Gene Summary: a vital component of a muscle sarcolemma membrane-spanning complex that connects cytoskeleton to basal lamina; plays a role in retinal neurotransmission; mutations cause Duchenne muscular dystrophy [RGD, Feb 2006]

Product images:



Circular map for RR200463