

## Product datasheet for **RR200461**

### Dmd (NM\_001005246) Rat Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                     |
| Product Name:             | Dmd (NM_001005246) 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:**

>RR200461 representing NM\_001005246  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAGGGAACACCTCAAAGGCCACGAGACCCAAACAACCTGTTGGGACCATCCAAAATGACAGAGCTCT  
 ACCAGTCTTTAGCTGACCTGAATAATGTGAGGTTCTCCGCTTATAGGACTGCCATGAAGCTCAGAAGACT  
 CCAGAAGGCCCTTTGCTTGGATCTCTTGAGCCTGTCAGCTGCATGTGACGCCCTTGACCAGCACAACTC  
 AAGCAAAATGATCAGCCCATGGATATCCTGCAGATAATTAAGTGTGACTACTATTTATGACCGTCTGG  
 AGCAAGAGCACAACAATTTGGTCAATGTCCCTCTCTGTGTGGATATGTGTCTCAACTGGCTTCTCAATGT  
 TTATGATACGGGACGAACAGGGAGGATCCGTGTCTGTCTTTAAAAGTGGCATCATTTCTCTGTGTAAA  
 GCACACTTGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACCGCTTTTGTGACCAGC  
 GTAGACTGGGTCTTCTTCTGCATGATTCTATTCAAATCCCAAGACAGTTGGGTGAAGTTGCCTCCTTTGG  
 GGGCAGTAACATTGAGCCGAGTGTGAGGAGCTGTTCCAGTTTCCAATAATAAACCTGAGATTGAAGCC  
 GCTCTCTTCTTACTGGATGCGTCTGGAACCCAGTCTATGGTGTGGCTGCCGGTCTTGACAGAGTGG  
 CTGCTGCTGAAACAGCCAAGCATCAGGCCAAGTGAACATCTGTAAGGAGTGTCCAATCATTGGATTGAG  
 GTACAGAAGCCTGAAACACTTTAATTATGACATCTGCCAAAGCTGCTTTTTTCTGGCCGAGTTGCTAAG  
 GGCCATAAAATGCACTACCCCATGGTAGAGTACTGCACCTCCGACTACATCTGGAGAAGATGTTCTGTGACT  
 TTGCCAAGGACTGAAAAACAAATTTGAAACAAAAGGATTTTTCGAAGCATCCCCGAATGGGCTACCT  
 TCCAGTGCAGACTGTGTTAGAGGGGACAAATGGAACAACATCTGCAAGCAGAATATGATCGTCTGAAG  
 CAGCAGCATGAGCATAAAGGCCGTGCCCACTGCCGTCTCTCTGAGATGATGCCACCTCTCCCAGAG  
 GTCCCAGGGATGCTGAATCATTGCTGAGGCCAAGTACTGCGCCAACACAAAGGACGCTGGAAGCCAG  
 GATGCAAATCCTGGAAGACCACAATAACAACACTGGAGTCTCAGTTACATAGACTGAGGCAGCTCCTGGAG  
 CAACCCAGGCTGAGGCCAAGTGAATGCACACCGGTGTCTCTCTTCTACCTCGCTGCAGAGGTGAG  
 ATAGCAGTCAAGCCTATGCTGCTCCGAGTGGTGGCAGTCAAACCTCAGAATCTATGGGTGAGGAAGATCT  
 TCTGAGTCTCCCAGGACACAAGCACAGGGTTAGAAGAAGTATGGAGCAACTCAACAACCTCTTCCCT  
 AGTTCAAGAGGAAGAAATGCCCTGAAAGCCAATGAGAGAGGACACAATG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR200461 representing NM\_001005246  
 Red=Cloning site Green=Tags(s)

MREHLKGHETQTTCDWHPKMTLEYQSLADLNNVRFSAVRTAMKLRRLQKALCLDLLSLSAACDALDQHNL  
 KQNDQPMIDILQIINCLTTIYDRLEQEHNNLVNPLCVDMLNWLNNVYDTGRTGRIRVLSFKTGIISLCK  
 AHLEDKYRYLQKQVSSSTGFCQRRLLGLLHDSIQIPRLGEVASFSGSNIEPSVRSCFQFANNKPEIEA  
 ALFLDWMRLEPQSMVWLPVLRVAAAETAQHAKCNICKECPIIGFRYRSLKHFNYDICQSCFFSGRVAK  
 GHKMHYPMVEYCTPTTSGEDVRDFAKVLKNKFRTRKRYFAKHPRMGYLPVQTVLEGNMETNLQAEYDRLK  
 QQHEHKLSPPLSPPEMPTSPQSPRDAELIAEAKLLRQHKGRLEARMQILEDHKNQLESQHLRLRQLLE  
 QPQAEAKVNGTTVSSPSTSLQRSOSSQPMLLRVVGSQTSSESMGEEDLLSPPQDTSTGLEEVMEQLNNSFP  
 SSRGRNAPGKPMREDTM

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_001005246

ORF Size: 1521 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\\_001005246.1](#), [NP\\_001005246.1](#)

RefSeq Size: 2038 bp

RefSeq ORF: 1524 bp

Locus ID: 24907

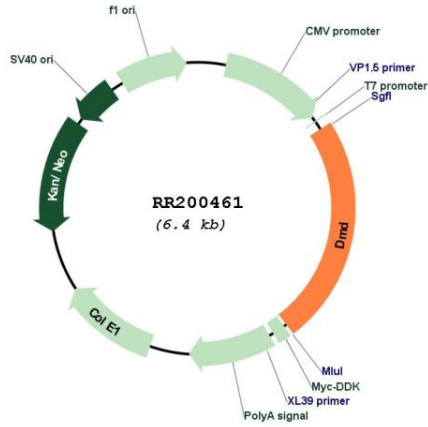
Cytogenetics: Xq21

MW: 57.9 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 RR200461