

## Product datasheet for **RG222424**

### Dystrophin (DMD) (NM\_004015) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dystrophin (DMD) (NM_004015) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DMD
Synonyms:	BMD; CMD3B; DXS142; DXS164; DXS206; DXS230; DXS239; DXS268; DXS269; DXS270; DXS272; MRX85
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG222424 representing NM\_004015  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGAGGGAACAGCTCAAAGGCCACGAGACTCAAACAATTGCTGGGACCATCCAAAATGACAGAGCTCT  
 ACCAGTCTTTAGCTGACCTGAATAATGTGAGATTCTCAGCTTATAGGACTGCCATGAAACTCCGAAGACT  
 GCAGAAGGCCCTTTGCTTGGATCTCTTGAAGCTGTGAGCTGCATGTGATGCCCTGGACCAGCACAACTC  
 AAGCAAAATGACCAGCCCATGGATATCCTGAGATTATTAATTGTTTGACCACTATTTATGACCGCTGG  
 AGCAAGAGCACAACAATTTGGTCAACGTCCCTCTGCGTGGATATGTGTCTGAACTGGCTGCTGAATGT  
 TTATGATACGGGACGAACAGGGAGGATCCGTGTCTGTCTTTAAAAGTGGCATCATTTCCCTGTGTAAA  
 GCACATTTGGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATTTTGTGACCAGC  
 GCAGGCTGGGCCCTCTTCTGCATGATTCTATCCAATTTCAAGACAGTTGGGTGAAGTTGCATCCTTTGG  
 GGGCAGTAACATTGAGCCAAGTGTCCGGAGCTGCTTCCAATTTGCTAATAATAAGCCAGAGATCGAAGCG  
 GCCCTCTTCTAGACTGGATGAGACTGGAACCCAGTCCATGGTGTGGCTGCCCGTCTGACAGAGTGG  
 CTGCTGCAGAAACTGCCAAGCATCAGGCCAAATGTAACATCTGCAAGAGTGTCCAATCATTGGATTGAG  
 GTACAGGAGTCTAAAGCACTTTAATTATGACATCTGCCAAAGCTGCTTTTTTCTGGTCGAGTTGCAAAA  
 GGCCATAAAATGCACTATCCCATGGTGGAAATTTGCACTCCGACTACATCAGGAGAAGATGTTTCGAGACT  
 TTGCCAAGGTAATAAAAAAAATTTGGAACAAAAGGATTTTTCGAAGCATCCCCGAATGGGCTACCT  
 GCCAGTGCAGACTGTCTTAGAGGGGACAAACATGGAACTCCCGTTACTCTGATCAACTTCTGGCCAGTA  
 GATTCTGCGCCTGCCTCGTCCCCTCAGCTTTACACGATGATACTCATTACGCATTGAACATTATGCTA  
 GCAGGCTAGCAGAAATGGAAAACAGCAATGGATCTTATCTAAATGATAGCATCTCTCTAATGAGAGCAT  
 AGATGATGAACATTTGTTAATCCAGCATTACTGCCAAAGTTTGAACCAGGACTCCCCCTGAGCCAGCCT  
 CGTAGTCTGCCAGATCTTGATTTCTTAGAGAGTGGAGAAAGAGGGGAGCTAGAGAGAATCCTAGCAG  
 ATCTTGAGGAAGAAAACAGGAATCTGCAAGCAGAATATGACCGTCTAAAGCAGCAGCACGAACATAAAGG  
 CCTGTCCCCTGCGTCCCCTCCTGAAATGATGCCACCTCTCCCAGAGTCCCCGGGATGCTGAGCTC  
 ATTGCTGAGGCCAAGCTACTGCGTCAACACAAAGGCCCTGGAAGCCAGGATGCAAACTCTGGAAGACC  
 ACAATAAACAGCTGGAGTACAGTTACACAGGCTAAGGCAGCTGCTGGAGCAACCCAGGCAGAGGCCAA  
 AGTGAATGGCACAACGGTGTCTCTCTCTACCTCTCTACAGAGTCCGACAGCAGTCAAGCCTATGCTG  
 CTCGAGTGGTTGGCAGTCAAATTCGGACTCCATGGGTGAGGAAGATCTTCTCAGTCTCCCAGGACA  
 CAAGCACAGGGTTAGAGGAGGTGATGGAGCAACTCAACAACCTCTCCCTAGTTCAAGAGGAAGAAATAC  
 CCCTGAAAGCCAATGAGAGAGGACACAATG

**ACGCGTACGCGGCCGCTCGAG** – GFP Tag – GTTTAA

**Protein Sequence:**

>RG222424 representing NM\_004015  
 Red=Cloning site Green=Tags(s)

MREQLKGHETQTTCDWHPKMTELYQSLADLNNVRFSAVRTAMKLRRQLKALCLDLLSLSAACDALDQHNL  
 KQNDQPMIDILQIINCLTTIYDRLEQEHNNLVNVPFCVDMCLNWLNVYDTGRTGRIRVLSFKTGIISLCK  
 AHLEDKYRYLQVYASSTGFCDQRRLLGLLHDSIQIPRQLGEVASFSGSNIEPSVRSFQFANNKPEIEA  
 ALFLDWMRLEPQSMVWLPVLRVAAAETAKHQAKCNICKECPIIGFRYRSLKHFNYDQCSCFFSGRVAK  
 GHKMHPMVEYCTPTTSGEDVRFDAKVLKNKFRKRYFAKHPRMGYLPVQTVLEGNMTPVTLINFWPV  
 DSAPASSPQLSHDDTHSRIEHYASRLAEMENSGSYLNDISPNESIDDEHLLIQHYCQSLNQDSPLSQP  
 RSPAQILISLESEERGERILADLEENRNLQAEYDRLKQHEHKGLSPLPSPPEMPTSPQSPRDAEL  
 IAEAKLLRQHKGRLEARMQILEDHKNQLESQHLRLQLLEQPQAEAKVNGTTVSSPSTSLQRSDSSQPML  
 LRVVGSQTSDSMGEEDLLSPPQDTSTGLEEVMEQLNNSFPSSRGRNTPGKPMREDTM

**TRTRPLE** – GFP Tag – V

**Restriction Sites:**

Sgfl-MluI



<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_004015.3</a>
<b>RefSeq Size:</b>	4623 bp
<b>RefSeq ORF:</b>	1854 bp
<b>Locus ID:</b>	1756
<b>UniProt ID:</b>	<a href="#">P11532</a>
<b>Cytogenetics:</b>	Xp21.2-p21.1
<b>Domains:</b>	ZnF_ZZ
<b>Protein Pathways:</b>	Arrhythmogenic right ventricular cardiomyopathy (ARVC), Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM), Viral myocarditis
<b>Gene Summary:</b>	This gene spans a genomic range of greater than 2 Mb and encodes a large protein containing an N-terminal actin-binding domain and multiple spectrin repeats. The encoded protein forms a component of the dystrophin-glycoprotein complex (DGC), which bridges the inner cytoskeleton and the extracellular matrix. Deletions, duplications, and point mutations at this gene locus may cause Duchenne muscular dystrophy (DMD), Becker muscular dystrophy (BMD), or cardiomyopathy. Alternative promoter usage and alternative splicing result in numerous distinct transcript variants and protein isoforms for this gene. [provided by RefSeq, Dec 2016]