

Product datasheet for **RG215529**

Dystrophin (DMD) (NM_004018) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dystrophin (DMD) (NM_004018) 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:

>RG215529 representing NM_004018
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGGGAACAGCTCAAAGGCCACGAGACTCAAACAATTGCTGGGACCATCCAAAATGACAGAGCTCT
 ACCAGTCTTTAGCTGACCTGAATAATGTGAGATTCTCAGCTTATAGGACTGCCATGAAACTCCGAAGACT
 GCAGAAGGCCCTTTGCTTGGATCTCTTGAAGCTGTGAGCTGCATGTGATGCCCTGGACCAGCACAACCTC
 AAGCAAAATGACCAGCCCATGGATATCCTGCGAGATTATTAATTGTTTGACCACTATTTATGACCGCTGG
 AGCAAGAGCACAACAATTTGGTCAACGTCCCTCTGCGTGGATATGTGTCTGAACTGGCTGCTGAATGT
 TTATGATACGGGACGAACAGGGAGGATCCGTGTCTGTCTTTAAAAGTGGCATCATTTCCCTGTGTAAA
 GCACATTTGGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATTTTGTGACCAGC
 GCAGGCTGGGCCCTCTTCTGCATGATTCTATCCAATTTCAAGACAGTTGGGTGAAGTTGCATCCTTTGG
 GGGCAGTAACATTGAGCCAAGTGTCCGGAGCTGCTTCCAATTTGTAATAATAAGCCAGAGATCGAAGCG
 GCCCTCTTCTAGACTGGATGAGACTGGAACCCAGTCCATGGTGTGGCTGCCCGTCTGCACAGAGTGG
 CTGCTGCAGAAACTGCCAAGCATCAGGCCAAATGTAACATCTGCAAGAGTGTCCAATCATTGGATTTCAG
 GTACAGGAGTCTAAAGCACTTTAATTATGACATCTGCCAAAGCTGCTTTTTTCTGGTCGAGTTGCAAAA
 GGCCATAAAATGCACTATCCCATGGTGGAAATTTGCACTCCGACTACATCAGGAGAAGATGTTTCGAGACT
 TTGCCAAGGTAATAAAAAAAATTTTGAACCAAAAGGATTTTTCGAAGCATCCCCGAATGGGCTACCT
 GCCAGTGCAGACTGTCTTAGAGGGGACAAATGGAAACGCTGCCTCGTCCCCTCAGCTTTCACACGAT
 GATACTCATTACGCATTGAACATTATGCTAGCAGGCTAGCAGAAATGGAAAACAGCAATTGGATCCTTATC
 TAAATGATAGCATCTCTCTAATGAGAGCATAGATGAACATTTGTTAATCCAGCACTACTGCCAAAG
 TTTGAACCAGGACTCCCCCTGAGCCAGCTCGTAGTCCTGCCAGATCTTGATTTCCCTTAGAGAGTGAG
 GAAAGAGGGGAGCTAGAGAGAATCCTAGCAGATCTTGAGGAAGAAAACAGGAATCTGCAAGCAGAATATG
 ACCGTCTAAAGCAGCAGCACGAACATAAAGGCCTGTCCCACTGCCGTCCCCTCCTGAAATGATGCCAC
 CTCTCCCAGAGTCCCCGGGATGCTGAGCTCATTGCTGAGGCCAAGCTACTGCGTCAACACAAAGGCCGC
 CTGGAAGCCAGGATGCAATCCTGGAAGACCACAATAACAGCTGGAGTACAGTTACACAGGCTAAGGC
 AGCTGCTGGAGCAACCCAGGCAGAGGCCAAAGTGAATGGCACAACGGTGTCTCTCTCTACCTCTCT
 ACAGAGGTCGACAGCAGTACGCTATGCTGCTCCGAGTGGTGGCAGTCAAACCTCGGACTCCATGGGT
 GAGGAAGATCTTCTCAGTCTCCCAGGACACAAGCACAGGGTTAGAGGAGGTGATGGAGCAACTCAACA
 ACTCCTTCCCTAGTTCAAGAGGACACAATGTAGGAAGTCTTTCCACATGGCAGATGATTTGGGCAGAGC
 GATGGAGTCTTAGTATCAGTCATGACAGATGAAGAAGGAGCAGAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG215529 representing NM_004018
 Red=Cloning site Green=Tags(s)

MREQLKGHETQTTCDWHPKMTELYQSLADLNNVRFSAVRTAMKLRRLQKALCLDLLSLSAACDALDQHNL
 KQNDQPMIDILQIINCLTTIYDRLEQEHNNLVNVPFCVDMCLNWLNVYDTRTGRIRVLSFKTGIISLCK
 AHLEDKYRYLQVYASSTGFCDQRRLLGLLLHDSIQIPRQLGEVASFGGSNIEPSVRSCFQFANNKPEIEA
 ALFLDWMRLEPQSMVWLPVLRVAAAETAQHAKCNICKCPIIGFRYRSLKHFNYDQCSCFFSGRVAK
 GHKMHPMVEYCTPTTSGEDVRDFAKVLRKFKRYFAKHPRMGYLPVQTVLEGNMTPASSQLSHD
 DTHSRIEHYASRLAEMENSNGSYLNDISPNESIDDEHLLIQHYCQSLNQDSPLSQPRSPAQILISLESE
 ERGELERILADLEEENRNLQAEYDRLLKQHEHKL SPLSPPEMPTSPQSPRDAELIAEAKLLRQHKGR
 LEARMQILEDHKNQLESQHLRLRQLLEQPQAEAKVNGTTVSSPSTSLQRSDDSQPMLLRVVGSTSDSMG
 EEDLLSPPQDSTGLEEVMEQLNNSFPSSRGHNVGSLFHMADDLGRAMESLVSVMTDEEGAE

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

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:	NM_004018.3
RefSeq Size:	4552 bp
RefSeq ORF:	1869 bp
Locus ID:	1756
UniProt ID:	P11532
Cytogenetics:	Xp21.2-p21.1
Protein Pathways:	Arrhythmogenic right ventricular cardiomyopathy (ARVC), Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM), Viral myocarditis
Gene Summary:	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]