

Product datasheet for **RG218887**

Dystrophin (DMD) (NM_004016) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dystrophin (DMD) (NM_004016) 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)



[View online »](#)

ORF Nucleotide Sequence:

>RG218887 representing NM_004016
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGGGAACAGCTCAAAGGCCACGAGACTCAAACAATTGCTGGGACCATCCAAAATGACAGAGCTCT
 ACCAGTCTTTAGCTGACCTGAATAATGTGAGATTCTCAGCTTATAGGACTGCCATGAAACTCCGAAGACT
 GCAGAAGGCCCTTTGCTTGGATCTCTTGAAGCTGTGAGCTGCATGTGATGCCCTTGACCAGCACAACCTC
 AAGCAAAATGACCAGCCCATGGATATCCTGCGAGATTATTAATTGTTTGACCACTATTTATGACCGCTGG
 AGCAAGAGCACAACAATTTGGTCAACGTCCTCTCTGCGTGGATATGTGTCTGAACTGGCTGCTGAATGT
 TTATGATACGGGACGAACAGGGAGGATCCGTGTCTGTCTTTAAAAGTGGCATCATTTCCCTGTGTAAA
 GCACATTTGGAAGACAAGTACAGATACCTTTTCAAGCAAGTGGCAAGTTCAACAGGATTTTGTGACCAGC
 GCAGGCTGGGCCCTCTTCTGCATGATTCTATCCAATTTCAAGACAGTTGGGTGAAGTTGCATCCTTTGG
 GGGCAGTAACATTGAGCCAAGTGTCCGGAGCTGCTTCCAATTTGCTAATAATAAGCCAGAGATCGAAGCG
 GCCCTCTTCTAGACTGGATGAGACTGGAACCCAGTCCATGGTGTGGCTGCCCGTCTGACAGAGTGG
 CTGCTGCAGAAACTGCCAAGCATCAGGCCAAATGTAACATCTGCAAGAGTGTCCAATCATTGGATTTCAG
 GTACAGGAGTCTAAAGCACTTTAATTATGACATCTGCCAAAGCTGCTTTTTTCTGGTCGAGTTGCAAAA
 GGCCATAAAATGCACTATCCCATGGTGGAAATTTGCACTCCGACTACATCAGGAGAAGATGTTTCGAGACT
 TTGCCAAGGTAATAAAAAAAATTTGAAACAAAAGGATTTTTCGAAGCATCCCCGAATGGGCTACCT
 GCCAGTGCAGACTGTCTTAGAGGGGGACAACATGGAACTCCCGTTACTCTGATCAACTTCTGGCCAGTA
 GATTCTGCGCCTGCCTCGTCCCCTCAGCTTTACACGATGATACTCATTACGCATTGAACATTATGCTA
 GCAGGCTAGCAGAAATGGAAAACAGCAATGGATCTTATCTAAATGATAGCATCTCTCCATGAGAGCAT
 AGATGATGAACATTTGTTAATCCAGCATTACTGCCAAAGTTTGAACCAGGACTCCCCCTGAGCCAGCCT
 CGTAGTCTGCCAGATCTTGATTTCTTAGAGAGTGGAGAAAGAGGGGAGCTAGAGAGAATCCTAGCAG
 ATCTTGAGGAAGAAAACAGGAATCTGCAAGCAGAATATGACCGTCTAAAGCAGCAGCACGAACATAAAGG
 CCTGTCCCCTGCGTCCCCTCCTGAAATGATGCCACCTCTCCCAGAGTCCCCGGGATGCTGAGCTC
 ATTGCTGAGGCCAAGCTACTGCGTCAACACAAAGGCCGCTGGAAGCCAGGATGCAAACTCTGGAAGACC
 ACAATAAACAGCTGGAGTACAGTTACACAGGCTAAGGCAGCTGCTGGAGCAACCCAGGCAGAGGCCAA
 AGTGAATGGCACAACGGTGTCTCTCTCTACCTCTCTACAGAGTCCGACAGCAGTCAAGCCTATGCTG
 CTCGAGTGGTTGGCAGTCAAATTCGGACTCCATGGGTGAGGAAGATCTTCTCAGTCTCCCAGGACA
 CAAGCACAGGGTTAGAGGAGGTGATGGAGCAACTCAACAACCTTCCCTAGTTCAAGAGGACACAATGT
 AGGAAGTCTTTCCACATGGCAGATGATTTGGGCAGAGCGATGGAGTCTTAGTATCAGTCAAGCAGAT
 GAAGAAGGAGCAGAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG218887 representing NM_004016
 Red=Cloning site Green=Tags(s)

MREQLKGHETQTTCDWHPKMTELYQSLADLNNVRF SAYRTAMKLRRLQKALCLDLLSL SAACDALDQHNL
 KQNDQPMIDILQIINCLTTIYDRLEQEHNNLVNVP LCVDMLNWLNNVYDTGRTGRIRVLSFKTGIISLCK
 AHLEDKYRYL FKQVASSSTGFCQRRLLGLLHDSIQIPRQLGEVASFGGSNIEPSVRSFCQFANNKPEIEA
 ALFLDWMRLEPQSMVWLPVLRVAAAETA KHQAKCNICKCEPIIGFRYRSLKHFNYDICQSCFFSGRVAK
 GHKMHPMVEYCTPTTSGEDVRDFAKVLKNKFRKRYFAKHPRMGYLPVQTVLEGNMTPVTLINFWPV
 DSAPASSPQLSHDDTHSRIEHYASRLAEMENSGSYLNDISIPNESIDDEHLLIQHYCQSLNQDSPLSQP
 RSPAQILISLESEERGERILADLEENRNLQAEYDRLKQHEHKGLSPLSPPEMPTSPQSPRDAEL
 IAEAKLLRQHKGRLEARMQILEDHKNQLESQHLRLQLEQPQAEAKVNGTTVSSPSTSLQRSDSSQPM
 LRVVGSTSDSMGEEDLLSPPQDTSTGLEEVMEQLNNSFPSSRGHNVGSLFHMADDLGRAMESLSVMTD
 EEGAE

TRTRPLE – GFP Tag – V

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_004016.3
RefSeq Size:	4591 bp
RefSeq ORF:	1908 bp
Locus ID:	1756
UniProt ID:	P11532
Cytogenetics:	Xp21.2-p21.1
Domains:	ZnF_ZZ
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]