

## Product datasheet for PH315529

### Dystrophin (DMD) (NM\_004018) Human Mass Spec Standard

#### Product data:

|                                       |   |
|---------------------------------------|---|
| Product Type:                         | Mass Spec Standards   |
| Description:                          | DMD MS Standard C13 and N15-labeled recombinant protein (NP_004009) |
| Species:                              | Human   |
| Expression Host:                      | HEK293  |
| Expression cDNA Clone or AA Sequence: | RC215529  |
| Predicted MW:                         | 70.6 kDa  |
| Protein Sequence:                     | >RC215529 representing NM_004018<br>Red=Cloning site Green=Tags(s)  |

MREQKKGHETQTTTCWDHPKMTELYQSLADLNNVRFSAVRTAMKLRRLQKALCLDLLSLSAACDALDQHNL  
KQNDQPMIDILQIINCLTTIYDRLEQEHNNLVNVPLCVDMLNWLNLNVYDTGRTGRIRVLSFKTGIISLCK  
AHLLEDKYRYLQKQVASTGFCQRRLLGLLHDSIQIPRQLGEVASFSGSNIEPSVRSQFQANNKPEIEA  
ALFLDWMRLEPQSMVWLPVLRVAAAETAKHQAKCNICKECPIIGFRYRSLKHFNYDICQSCFFSGRVAK  
GHKMHYPMVEYCTPTTSGEDVRDFAKVLKNKFRKRYFAKHPRMGYLPVQTVLEGDNMETPASSQLSHD  
DTHSRIEHYASRLAEMENSNGLYNDISIPNESIDDEHLLIQHYCQSLNQDSPLSQPRSPAQILISLESE  
ERGELERILADLEENRNLQAEYDRLKQHEHKGLSPLSPPEMMPTSPQSPRDAELIAEAKLLRQHKGR  
LEARMQILEDHKNQLESQHLRLQLLEQPQAEAKVNGTTVSSPSTSLQRSOSSQPMLLRVVGSTSDSMG  
EEDLLSPPQDTSTGLEEVMEQLNNSFPSSRGHNVGSLFHMADDLGRAMESLVSVMTDEEGAE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

|                  |  |
|------------------|--|
| Tag:             | C-Myc/DDK  |
| Purity:          | > 80% as determined by SDS-PAGE and Coomassie blue staining                                |
| Concentration:   | >0.05 µg/µL as determined by microplate BCA method   |
| Labeling Method: | Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine                       |
| Buffer:          | 25 mM Tris-HCl, 100 mM glycine, pH 7.3   |
| Storage:         | Store at -80°C. Avoid repeated freeze-thaw cycles.   |
| Stability:       | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| RefSeq:          | <u><a href="#">NP_004009</a></u>   |
| RefSeq Size:     | 4552   |
| RefSeq ORF:      | 1866   |



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**Synonyms:** BMD; CMD3B; DXS142; DXS164; DXS206; DXS230; DXS239; DXS268; DXS269; DXS270; DXS272; MRX85

**Locus ID:** 1756

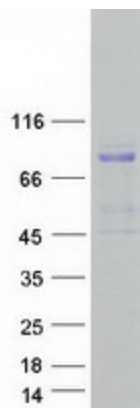
**UniProt ID:** [P11532](#)

**Cytogenetics:** Xp21.2-p21.1

**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]

**Protein Pathways:** Arrhythmogenic right ventricular cardiomyopathy (ARVC), Dilated cardiomyopathy, Hypertrophic cardiomyopathy (HCM), Viral myocarditis

### Product images:



Coomassie blue staining of purified DMD protein (Cat# [TP315529]). The protein was produced from HEK293T cells transfected with DMD cDNA clone (Cat# [RC215529]) using MegaTran 2.0 (Cat# [TT210002]).