

Supplementary Table 1. List of 69 myopathy-related genes

Gene symbol	OMIM number	Transcript ID
<i>ACTA1</i>	102610	NM_001100
<i>ANO5</i>	608662	NM_213599
<i>BAG3</i>	603883	NM_004281
<i>BIN1</i>	601248	NM_139343
<i>CAPN3</i>	114240	NM_000070
<i>CAV3</i>	601253	NM_033337
<i>CFL2</i>	601443	NM_021914
<i>CHKB</i>	612395	NM_005198
<i>COL6A1</i>	120220	NM_001848
<i>COL6A2</i>	120240	NM_001848
<i>COL6A3</i>	120250	NM_004369
<i>CPT2</i>	600650	NM_000098
<i>CRYAB</i>	123590	NM_001885
<i>DAG1</i>	128239	NM_001165928
<i>DES</i>	125660	NM_001927
<i>DMD</i>	300377	NM_004006
<i>DNAJB6</i>	611332	NM_058246
<i>DNM2</i>	602378	NM_001005360
<i>DPM2</i>	603564	NM_003863
<i>DPM3</i>	605951	NM_153741
<i>DYSF</i>	603009	NM_003494
<i>EMD</i>	300384	NM_000117
<i>ENO3</i>	131370	NM_053013
<i>FHL1</i>	300163	NM_001159699
<i>FKRP</i>	606596	NM_024301
<i>FKTN</i>	607440	NM_001079802
<i>FLNC</i>	102565	NM_001458
<i>GAA</i>	606800	NM_001079803
<i>GNE</i>	603824	NM_001128227
<i>GTDC2</i>	614828	NM_032806
<i>ISPD</i>	614631	NM_001101426
<i>ITGA7</i>	600536	NM_002206
<i>KBTBD13</i>	613727	NM_001101362
<i>KLHL9</i>	611201	NM_018847
<i>KLHL40</i>	615340	NM_152393
<i>LAMA2</i>	156225	NM_000426
<i>LARGE</i>	603590	NM_004737
<i>LDB3</i>	605906	NM_007078
<i>LDHA</i>	150000	NM_005566
<i>LMNA</i>	150330	NM_170707
<i>MEGF10</i>	612453	NM_032446
<i>MTM1</i>	300415	NM_000252
<i>MYH2</i>	170740	NM_017534
<i>MYH7</i>	160760	NM_000257
<i>MYOT</i>	604103	NM_006790
<i>NEB</i>	161650	NM_001271208
<i>PFKM</i>	610681	NM_001166686
<i>PGAM2</i>	612931	NM_000290
<i>PLEC</i>	601282	NM_000445
<i>POMGNT1</i>	606822	NM_001243766
<i>POMT1</i>	607423	NM_007171
<i>POMT2</i>	607439	NM_013382
<i>PTRF</i>	603198	NM_012232
<i>PYGM</i>	608455	NM_005609
<i>RYR1</i>	180901	NM_000540
<i>SEPN1</i>	606210	NM_020451
<i>SGCA</i>	600119	NM_000023
<i>SGCB</i>	600900	NM_000232
<i>SGCD</i>	601411	NM_000337
<i>SGCG</i>	608896	NM_000231
<i>TCAP</i>	604488	NM_003673
<i>TMEM43</i>	612048	NM_024334
<i>TNNT1</i>	191041	NM_003283
<i>TNPO3</i>	610032	NM_012470
<i>TPM2</i>	190990	NM_003289
<i>TPM3</i>	191030	NM_152263
<i>TRIM32</i>	602290	NM_012210
<i>TTN</i>	188840	NM_001267550
<i>VCP</i>	601023	NM_007126