

Table SI. High-throughput sequencing-based muscle diseases panel tests, including 169 known muscle disease genes.

Number	Gene
1	DMD
2	CAPN3
3	DYSF
4	SGCG
5	SGCA
6	SGCB
7	SGCD
8	TCAP
9	TRIM32
10	FKRP
11	POMT1
12	ANO5
13	FKTN
14	POMT2
15	POMGNT1
16	PLEC
17	MYOT
18	LMNA
19	CAV3
20	DES
21	DNAJB6
22	EMD
23	SYNE1
24	SYNE2
25	CLCN1
26	SCN4A
27	LAMA2
28	FHL1
29	ITGA7
30	COL6A3
31	COL6A1
32	COL6A2
33	SEPN1
34	LARGE
35	ISPD
36	GTDC2
37	DAG1
38	CRYAB
39	LDB3
40	FLNC
41	BAG3
42	MTM1
43	MTMR14
44	DNM2
45	BIN1
46	MYF6
47	MYH7
48	MATR3
49	CHKB
50	TPM3
51	ACTA1
52	GNE
53	ATP2A1
54	VCP
55	MEGF10
56	NEB
57	TPM2
58	TNNT1
59	RYR1
60	KBTBD13

Table SI. Continued.

Number	Gene
61	CFL2
62	ABHD5
63	ACADVL
64	ACVR1
65	AGL
66	AGRN
67	B3GNT1
68	CACNA1A
69	CACNA1S
70	CHAT
71	CHRNA1
72	CHRNB1
73	CHRNA1
74	CHRNE
75	CHRNA1
76	CNBP
77	CNTN1
78	COLQ
79	CPT2
80	DMPK
81	DOK7
82	DPAGT1
83	DPM2
84	DPM3
85	DUX4
86	ENO3
87	ETFA
88	ETFB
89	ETFDH
90	GAA
91	GBE1
92	GFPT1
93	GYG1
94	GYS1
95	HSPG2
96	ISCU
97	ITGA9
98	KCNA1
99	KCNE3
100	KLHL9
101	LAMB2
102	LAMP2
103	LDHA
104	LPIN1
105	MSTN
106	MUSK
107	MYBPC3
108	MYH2
109	PABPN1
110	PFKM
111	PGAM2
112	PGK1
113	PGM1
114	PHKA1
115	PNPLA2
116	PRKAG2
117	PTRF
118	PYGM
119	RAPSN
120	SLC22A5
121	SLC25A20

Table SI. Continued.

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Number	Gene
122	TMEM43
123	TMEM5
124	TTN
125	AGK
126	ALG13
127	ALG14
128	ALG2
129	ATP5A1
130	B3GALNT2
131	CABC1
132	CCDC78
133	CHST14
134	COL12A1
135	DARS
136	DOLK
137	DPM1
138	ECEL1
139	FKBP14
140	GMPPB
141	HADHB
142	KLHL40
143	KLHL41
144	LRP4
145	MAMLD1
146	MYBPC1
147	MYH14
148	NDUFB3
149	PIEZO2
150	PLOD1
151	PLOD2
152	PLOD3
153	POLG2
154	POMK
155	PTPLA
156	PUS1
157	RBCK1
158	SGCE
159	SGK196
160	SIL1
161	SLC16A2
162	SLC28A2
163	SMCHD1
164	TIA1
165	TK2
166	TNPO3
167	TOR1AIP1
168	TRAPPC11
169	YARS2

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