

Dataset	PubmedID	First author	Year	Species	Platform	Chip ID	Tissue / Cell line	Specification of tissue	Gene deficiency / condition	Treatment	Control / Reference	Cut-off used by authors	# Genes Up	# Genes Down	Export group
1	11823445	Porter	2002	mouse	Afymetrix	U74A	skeletal muscle	gastrocnemius, quadriceps	dystrophin	no	wild-type age 8 wk	consistent diff. Wilcoxon's rank test, SAM, fold change values >=1.5	184	8	dystrophinopathy
2	15683191	Sparkes	2005	human	Spotted oligonucleotide	Home_Sparks	skeletal muscle	vastus lateralis	insulin-sensitive	high fat diet	insulin-sensitive males before high-fat diet	t-test p < 0.01 (Bonferroni-adjusted)	94	110	
4a	12832294	Khanna	2003	rat	Afymetrix	U34A	skeletal muscle	extraocular	no	no	several muscles	fold change >=2	13	0	extraocular
4b	12832294	Khanna	2003	rat	Afymetrix	U34A	skeletal muscle	extraocular	no	no	leg	consistent difference call, fold change >=2	93	54	extraocular
5a	15138310	Cheng	2004	rat	Afymetrix	U34A	skeletal muscle	extraocular	no	age 7d	timepoint 0 days (birth)	fold change >2	17	9	
5b	15138310	Cheng	2004	rat	Afymetrix	U34A	skeletal muscle	extraocular	no	age 14d	timepoint 0 days (birth)	fold change >2	113	64	
5c	15138310	Cheng	2004	rat	Afymetrix	U34A	skeletal muscle	extraocular	no	age 21d	timepoint 0 days (birth)	fold change >2	162	105	
5d	15138310	Cheng	2004	rat	Afymetrix	U34A	skeletal muscle	extraocular	no	age 28d	timepoint 0 days (birth)	fold change >2	144	142	
5e	15138310	Cheng	2004	rat	Afymetrix	U34A	skeletal muscle	extraocular	no	age 45d	timepoint 0 days (birth)	fold change >2	132	219	
7a	12874102	Porter	2003	mouse	Afymetrix	U74A	skeletal muscle	hindlimb	dystrophin	no	wild-type age 7d	consistent diff. from Wilcoxon's rank test, fold change values >=1.5	3	21	
7b	12874102	Porter	2003	mouse	Afymetrix	U74A	skeletal muscle	hindlimb	dystrophin	no	wild-type age 14d	consistent diff. from Wilcoxon's rank test, fold change values >=1.5	13	2	
7c	12874102	Porter	2003	mouse	Afymetrix	U74A	skeletal muscle	hindlimb	dystrophin	no	wild-type age 23d	consistent diff. from Wilcoxon's rank test, fold change values >=1.5	196	51	dystrophinopathy
7d	12874102	Porter	2003	mouse	Afymetrix	U74A	skeletal muscle	hindlimb	dystrophin	no	wild-type age 28d	consistent diff. from Wilcoxon's rank test, fold change values >=1.5	108	21	dystrophinopathy
7e	12874102	Porter	2003	mouse	Afymetrix	U74A	skeletal muscle	hindlimb	dystrophin	no	wild-type age 56d	consistent diff. from Wilcoxon's rank test, fold change values >=1.5	362	65	dystrophinopathy
7f	12874102	Porter	2003	mouse	Afymetrix	U74A	skeletal muscle	hindlimb	dystrophin	no	wild-type age 112d	consistent diff. from Wilcoxon's rank test, fold change values >=1.5	99	73	dystrophinopathy
7g	12874102	Porter	2003	mouse	Afymetrix	U74A	skeletal muscle	extraocular	dystrophin	no	wild-type age 14d	consistent diff. from Wilcoxon's rank test, fold change values >=1.5	3	2	
7h	12874102	Porter	2003	mouse	Afymetrix	U74A	skeletal muscle	extraocular	dystrophin	no	wild-type age 28d	consistent diff. from Wilcoxon's rank test, fold change values >=1.5	7	3	
7i	12874102	Porter	2003	mouse	Afymetrix	U74A	skeletal muscle	extraocular	dystrophin	no	wild-type age 56d	consistent diff. from Wilcoxon's rank test, fold change values >=1.5	5	16	
7j	12874102	Porter	2003	mouse	Afymetrix	U74A	skeletal muscle	extraocular	dystrophin	no	wild-type age 112d	consistent diff. from Wilcoxon's rank test, fold change values >=1.5	16	3	
8	14508282	Lennox	2003	mouse	Afymetrix	U74A	skeletal muscle	gastrocnemius, quadriceps	dysferlin	no	wild-type age 6 wk and 8 months	Correlation networks	74	107	dysferlinopathy
9a	15687108	Teran-Garcia	2005	human	Spotted oligonucleotide	Home_Pennington	skeletal muscle	unknown	no insulin sensi. change (bef. training)	exercise	insulin sensitivity improvement (bef. training)	fold change >1.4	21	4	
9b	15687108	Teran-Garcia	2005	human	Spotted oligonucleotide	Home_Pennington	skeletal muscle	unknown	no insulin sensi. change (posttraining)	exercise	insulin sensitivity improvement (posttraining)	fold change >1.4	29	28	
10	14688207	Tomczak	2004	mouse	Afymetrix	U74A+C	myoblast	unknown	C2C12	no	undifferentiated	CAGED clustering, fold-change >2.0 relative to time -2 days	448	352	regen. and diff.
11a	11121445	Chen	2000	human	Afymetrix	HuGeneFL	skeletal muscle	unknown	dystrophin	no	healthy	Rosetta error model p < 0.01 (Benjamini-Hochberg corrected)	341	161	dystrophinopathy
11b	11121445	Chen	2000	human	Afymetrix	HuGeneFL	skeletal muscle	unknown	dystrophin	no	healthy	fold-change >=2	41	39	dystrophinopathy
12	14519293	Arvanitakis	2003	human	Afymetrix	HuGeneFL + U95A	skeletal muscle	biceps	FDHD	no	healthy	fold-change >=2 on U95A2 and HuFL	13	65	
13	12677001	Sanoudou	2003	human	Afymetrix	U95A+B	skeletal muscle	unknown	nemaline myopathy	no	healthy	t-test p < 0.001	58	115	myopathy
14a	11572940	Porter	2001	mouse	Afymetrix	U74A	skeletal muscle	extraocular	no	no	gastrocnemius and soleus muscle	SAM FDR <=0.4	24	22	extraocular
14b	11572940	Porter	2001	mouse	Afymetrix	U74A	skeletal muscle	extraocular	no	no	jaw	SAM FDR <=0.4	30	36	extraocular
15	12415109	Haslett	2002	human	Afymetrix	U95A	skeletal muscle	quadriceps	dystrophin	no	healthy	t-test p < 0.0001; FDR = 0.0023	70	14	dystrophinopathy
16	12471055	Campanaro	2002	human	Spotted cDNA	Home_muscle_Bologna	skeletal muscle	unknown	dysferlin	no	healthy	fold-change >=1.8	43	13	dysferlinopathy
17	14519198	Samson	2003	human	Afymetrix	U74A	skeletal muscle	vastus lateralis	no	leg exercise	paired t-test p < 0.05 at 6 and 18h	10	10	regen. and diff.	
18	15326121	Khanna	2004	monkey	Afymetrix	U133A	skeletal muscle	Orbital layer of ocular muscle	no	no	global layer of ocular muscle	t-test p < 0.05 (RMA and MAS), fold-change >=2	71	62	
19	12176734	Rouger	2002	mouse	Spotted cDNA	Home_INSERTM_DD	skeletal muscle	hindlimb	dystrophin	no	healthy	fold change >2 at different time points	23	11	dystrophinopathy
21	12477723	Yan	2003	mouse	Spotted cDNA	Home_NIH_Caltech	skeletal muscle	tibialis anterior	Cardiotoxin	no	untreated	fold change >2.5	1176	1004	regen. and diff.
22	15126512	Viguerie	2004	human	Spotted cDNA	Home_Viguerie	skeletal muscle	vastus lateralis	epinephrine	no	healthy	SAM FDR < 0.001	1107	402	
23	15589861	Richardson	2005	human	Afymetrix	U133A	skeletal muscle	vastus lateralis	lipid infusion	no	saline	SAM and Genespring	26	0	
24a	12391344	Greenberg	2002	human	Afymetrix	U95A	skeletal muscle	unknown	no	no	healthy	fold-change >=10 minexpr=500	45	0	myositis
24b	12391344	Greenberg	2002	human	Afymetrix	U95A	skeletal muscle	unknown	polymyositis	no	healthy	fold-change >=10 minexpr=500	121	0	myositis
24c	12391344	Greenberg	2002	human	Afymetrix	U95A	skeletal muscle	unknown	dermatomyositis	no	healthy	fold-change >=10 minexpr=500	45	0	myositis
25	12937035	Chen	2003	human	Afymetrix	U95A	skeletal muscle	vastus lateralis	no	ec-&concentric contraction	concentric contractions only	t-test p < 0.05, fold-change >5	24	0	
28a	14715702	Nikawa	2004	rat	Afymetrix	U34A+B+C	skeletal muscle	gastrocnemius	no	space flight	untreated	fold change >=8	59	101	atrophy
28b	14715702	Nikawa	2004	rat	Afymetrix	U34A+B+C	skeletal muscle	gastrocnemius	no	tail suspension	untreated	fold change >=8	22	18	atrophy
30a	14618091	Komamura	2003	rat	Afymetrix	U34A	skeletal muscle	gastrocnemius	no	no	untreated	fold change >=3	6	9	atrophy
30b	14618091	Komamura	2003	rat	Afymetrix	U34A	skeletal muscle	gastrocnemius	no	no	untreated	fold change >=3	6	1	
32	12133862	Tsang	2002	mouse	Afymetrix	U74A	skeletal muscle	gastrocnemius	dystrophin	no	wild-type age 16 wk	t-test p < 0.01 (Benjamini-Hochberg corrected); fold-change >=2	97	16	dystrophinopathy
33a	15475267	Kuninger	2004	mouse	Afymetrix	U74A+B+C	myoblast	C2AS12	no	IGF	untreated	fold change >=3	67	0	
33b	15475267	Kuninger	2004	mouse	Afymetrix	U74A+B+C	myoblast	C2AS12	no	untreated	fold change >=3	43	0		
34	15056467	Sanoudou	2004	human	Afymetrix	U95A+B	skeletal muscle	unknown	nemaline myopathy non-typing	PDGF	no	correlation method	182	76	
35	15755682	Corbell-Girard	2005	human	Afymetrix	U133A	lung carcinoma cells	AL5491TA	Ala expansion in overexpr. Pabp1	no	mock-infected	fold change >=2.5; Intensity difference > 200 units	88	87	
38a	15036332	Blanco	2004	mouse	Spotted oligonucleotide	Home_Compugen_Brown	skeletal muscle	soleus (affected)	unknown - ky	no	wild-type	Bayes probability; additional cut-off for signal units.	19	54	
38b	15036332	Blanco	2004	mouse	Spotted oligonucleotide	Home_Compugen_Brown	skeletal muscle	EDL (unaffected)	unknown - ky	no	wild-type	Bayes probability; additional cut-off for signal units.	15	15	
39a	15811552	Suzuki	2005	mouse	Codelink	Uniset mouse I	skeletal muscle	quadriceps	dysferlin	no	wild-type	t-test p < 0.05, fold change >=2	115	59	dysferlinopathy
39b	15811552	Suzuki	2005	mouse	Codelink	Uniset mouse I	skeletal muscle	quadriceps	dysferlin	no	wild-type	t-test p < 0.05, fold change >=2	119	79	dysferlinopathy
40	15272020	Kamei	2004	mouse	Afymetrix	U74A	skeletal muscle	quadriceps	no	no	wild-type	Fisher's protected least significant difference test	0	18	
41	15728662	Crimi	2005	human	Afymetrix	U133A	skeletal muscle	unknown	mitochondrial encephalo-myopathy	no	unknown	fold change >=2.5	43	59	myopathy
42a	14681298	Porter	2004	mouse	Afymetrix	U74A	skeletal muscle	diaphragm	dystrophin	no	wildtype - age 7d	pairwise replicate comparisons Wilcoxon p < 0.01	1	33	
42b	14681298	Porter	2004	mouse	Afymetrix	U74A	skeletal muscle	diaphragm	dystrophin	no	wildtype - age 14d	pairwise replicate comparisons Wilcoxon p < 0.01	9	4	
42c	14681298	Porter	2004	mouse	Afymetrix	U74A	skeletal muscle	diaphragm	dystrophin	no	wildtype - age 23d	pairwise replicate comparisons Wilcoxon p < 0.01	192	26	dystrophinopathy
42d	14681298	Porter	2004	mouse	Afymetrix	U74A	skeletal muscle	diaphragm	dystrophin	no	wildtype - age 28d	pairwise replicate comparisons Wilcoxon p < 0.01	186	43	dystrophinopathy
42e	14681298	Porter	2004	mouse	Afymetrix	U74A	skeletal muscle	diaphragm	dystrophin	no	wild-type - age 56d	pairwise replicate comparisons Wilcoxon p < 0.01	234	213	dystrophinopathy
42f	14681298	Porter	2004	mouse	Afymetrix	U74A	skeletal muscle	diaphragm	dystrophin	no	wild-type - age 112 d	pairwise replicate comparisons Wilcoxon p < 0.01	144	51	dystrophinopathy
42g	14681298	Porter	2004	mouse	Afymetrix	U74A	skeletal muscle	diaphragm	no	no	no	pairwise replicate comparisons Wilcoxon p < 0.01	28	11	
43	14625377	Sanoudou	2004	human	Afymetrix	U95A	skeletal muscle	quadriceps, others	no	autopsy	surgical	SAM FDR 0.0166, fold-change >2	119	0	
45a	15962335	Kang	2005	human	Afymetrix	U133A	skeletal muscle	deltoid	no	no	quadriceps	PCA	65	0	
45b	15962335	Kang	2005	human	Afymetrix	U133A	skeletal muscle	deltoid	no	no	gastrocnemius	PCA	65	0	
45c	15962335	Kang	2005	human	Afymetrix	U133A	skeletal muscle	deltoid	no	no	tibialis anterior	PCA	4	0	
45d	15962335	Kang	2005	human	Afymetrix	U133A	skeletal muscle	gastrocnemius	no	no	quadriceps	PCA	18	0	
45e	15962335	Kang	2005	human	Afymetrix	U133A	skeletal muscle	gastrocnemius	no	no	tibialis anterior	PCA	6	0	
45f	15962335	Kang	2005	human	Afymetrix	U133A	skeletal muscle	quadriceps	no	no	tibialis anterior	PCA	37	0	
46	12637262	Delgado	2003	mouse	Afymetrix	U74A	myoblast	C2C12	no	differentiation	undifferentiated	K-means clustering; fold change >3.5	102	0	regen. and diff.
47	12208906	Boer	2002	mouse	Afymetrix	U74A	skeletal muscle	hindlimb	dystrophin and dystrophin x utrophin	no	wild-type	t-test p < 0.01	79	60	dystrophinopathy
48a	15336692	Sterrenburg	2004	human	Spotted cDNA	LGTC_muscle	myoblast	primary	no	differentiation	undifferentiated	Z > 1.96	68	63	regen. and diff.
48b	15336692	Sterrenburg	2004	human	Spotted oligonucleotide	LGTC_Hu19K	myoblast	primary	no	differentiation	undifferentiated	ANOVA p < 0.000005; Fold-change >2	59	59	regen. and diff.
49	16679024	Sterrenburg	2005	human	Spotted cDNA	LGTC_muscle	myoblast	primary	no	differentiation	undifferentiated, healthy	ANOVA p < 0.000005	39	46	
50	16011810	Turk	2005	mouse	Spotted oligonucleotide	LGTC_Mu7.5K	skeletal muscle	quadriceps	dystrophin	no	healthy	p < 1e-6 at least one time point	717	812	dystrophinopathy
51	163														