

			Control myogenesis		FSHD myogenesis		FSHD-specificity	
			Mb or Mt/Non-muscle cells		Mb or Mt/Non-muscle cells		FSH vs. Ctl Mb or Mt	
Gene	Gene description	Cell type	Fold change	P-value	Fold change	P-value	Fold change	P-value
A. Examples of muscle-associated genes without significant dysregulation of expression in FSHD myogenic cells								
MYOD1	myogenic differentiation 1	Mb	12	<1E-06	15	<1E-06	1.3	0.42
MYOG	myogenin (myogenic factor 4)	Mt	59	<1E-06	56	<1E-06	-1.1	0.94
MYF5	myogenic factor 5	Mb	255	<1E-06	233	<1E-06	-1.1	0.84
MYF6	myogenic factor 6 (herculin)	Mb	19	<1E-06	21	<1E-06	1.1	0.92
CHRNA1	cholinergic receptor, nicotinic, alpha 1 (muscle)	Mt	131	<1E-06	115	<1E-06	-1.1	0.60
KBTD10	kelch repeat and BTB (POZ) domain containing 10	Mt	336	<1E-06	243	<1E-06	-1.4	0.27
TTN	titin	Mt	590	<1E-06	304	<1E-06	-1.9	0.31
B. Examples of muscle-associated genes with significant downregulation of expression in FSHD myogenic cells								
CLCN4	chloride channel 4	Mt	5.2	<1E-06	1.6	0.003	-3.1	5E-05
MYPN	myopalladin	Mt	40	<1E-06	9.0	<1E-06	-4.4	8E-05
SGCG	sarcoglycan, gamma	Mt	65	<1E-06	12	<1E-06	-5.4	0.002
SRL	sarcalumenin	Mt	83	<1E-06	15	<1E-06	-5.7	0.002
MYL1	myosin, light chain 1, alkali; skeletal, fast	Mt	112	<1E-06	19	<1E-06	-5.9	0.006
NRAP	nebulin-related anchoring protein	Mt	4.4	<1E-06	-1.4	0.08	-6.0	<1E-06
MYH7	myosin, heavy chain 7, cardiac muscle, beta	Mt	48	<1E-06	6.1	<1E-06	-7.9	5E-05
XIRP2	xin actin-binding repeat containing 2	Mt	35	<1E-06	4.0	3E-05	-8.8	4E-05
MYOT	myotilin	Mt	21	<1E-06	1.8	0.001	-11.7	<1E-06
ATP1B4	ATPase, Na+/K+ transporting, beta 4 polypeptide	Mt	103	<1E-06	8.5	<1E-06	-12.2	<1E-06
MYBPC1	myosin binding protein C, slow type	Mt	100	<1E-06	4.7	<1E-06	-21.3	<1E-06