

Supplementary Table S1 Characteristics of the 42 cycles for this PGT-M cohort.

PGD Case ID	Full gene name (HUGO Gene Nomenclature Committee)	Gene symbol	Genetic disorder/ (OMIM_Phenotype_ID)	Mode of inheritance	Maternal age (years)	Infertility indication (AMA, RIF, RPL, MF)
PGD063	sodium voltage-gated channel alpha subunit 5	SCN5A	Brugada syndrome I (601144)	AD	29	—
PGD036_C6II	BRCA1, DNA repair associated	BRCA1	Breast-ovarian cancer, familial, I (604370)	AD	29	—
PGD077	BRCA1, DNA repair associated	BRCA1	Breast-ovarian cancer, familial, I (604370)	AD	29	—
PGD078	exostosin glycosyltransferase I	EXT1	Exostoses, multiple, type I (133700)	AD	29	—
PGD096	hemoglobin subunit beta	HBB	Thalassemia, beta (613985)	AR	26	MF
PGD107	notch, drosophila, homolog of, I	NOTCH1	Aortic valve disease I (109730)	AD	29	—
PGD118	fibrillin I	FBNI	Marfan syndrome (154700)	AD	26	—
PGD120	BRCA2, DNA repair associated	BRCA2	Breast-ovarian cancer, familial, 2 (612555)	AD	27	—
PGD123	neurofibromin I	NFI	Neurofibromatosis, type I (162200)	AD	24	—
PGD124_C1	ankyrin repeat containing	KRIT1	Cerebral cavernous malformations-I (116860)	AD	26	MF
PGD124_C2	ankyrin repeat containing	KRIT1	Cerebral cavernous malformations-I 116860	AD	26	MF
PGD124_C3	ankyrin repeat containing	KRIT1	Cerebral cavernous malformations-I 116860	AD	27	MF
PGD131	glucosylceramidase beta	GBA	Gaucher disease, type II (230900)	AR	39	AMA
PGD133_C2	spastin	SPG4	Spastic paraplegia 4, autosomal dominant (182601)	AD	29	—
PGD133_C3	spastin	SPG4	Spastic paraplegia 4, autosomal dominant 182601	AD	29	—
PGD133_C4	spastin	SPG4	Spastic paraplegia 4, autosomal dominant 182601	AD	30	—
PGD136	NK2 homeobox I	NKX2-1	Choreoathetosis, hypothyroidism, and neonatal respiratory distress (610978)	AD	40	AMA
PGD148	neurofibromin I	NFI	Neurofibromatosis, type I (162200)	AD	29	—
PGD156	BRCA2, DNA repair associated	BRCA2	Breast-ovarian cancer, familial, 2 (612555)	AD	28	—
PGD158	BRCA2, DNA repair associated	BRCA2	Breast-ovarian cancer, familial, 2 (612555)	AD	25	—
PGD159	BRCA1, DNA repair associated	BRCA1	Breast-ovarian cancer, familial, I (604370)	AD	26	MF
PGD165	neurofibromin I	NFI	Neurofibromatosis, type I (162200)	AD	22	—
PGD167	polycystin I, transient receptor potential channel interacting	PKD1	Polycystic kidney disease I (173900)	AD	33	—
PGD169	DMP1 protein kinase	DMPK	Steinert disease (160900)	AD	39	AMA/RIF/MF
PGD176_C1	BRCA2, DNA repair associated	BRCA2	Breast-ovarian cancer, familial, 2 (612555)	AD	29	—
PGD176_C2	BRCA2, DNA repair associated	BRCA2	Breast-ovarian cancer, familial, 2 (612555)	AD	29	—
PGD177	nyctalopin	NYX	Night blindness, congenital stationary (complete), I A, X-linked (310500)	XLR	29	MF
PGD178_C2	neurofibromin I	NFI	Neurofibromatosis, type I I (62200)	AD	29	—
PGD189_C1	potassium voltage-gated channel subfamily H member 2	KCNH2	Long QT syndrome 2 (613688)	AD	32	—
PGD191_C1	telomerase RNA component	TERC	Dyskeratosis congenita, autosomal dominant I (127550)	AD	26	—
PGD191_C2	telomerase RNA component	TERC	Dyskeratosis congenita, autosomal dominant I (127550)	AD	26	—
PGD192	notch drosophila, homolog of, 3	NOTCH3	Cerebral arteriopathy with subcortical infarcts and leukoencephalopathy I (125310)	AD	41	AMA

Continued

Supplementary Table S1 *Continued*

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PGD198_CI	coagulation factor VIII	F8	Hemophilia A (306700)	XLR	32	—
PGD203	lamin A/C	LMNA	Cardiomyopathy, dilated, I A (115200)	AD	29	MF
PGD252	mutl, E. coli, homolog of, I	MLH1	Colorectal cancer, hereditary nonpolyposis, type 2 (609310)	—	24	—
PGD255	ankyrin repeat containing	KRIT1	Cerebral cavernous malformations-1 (116860)	AD	28	—
PGD260	spastin	SPG4	Spastic paraplegia 4, autosomal dominant (182601)	AD	27	—
PGD273	exostosin glycosyltransferase I	EXT1	Exostoses, multiple, type I (133700)	AD	34	—
PGD274	unc13, C. elegans, homolog of, D	MUNC13-4	Hemophagocytic lymphohistiocytosis, familial, 3 (608898)	—	32	—
PGD284	alpha-1,3-glucosyltransferase	ALG6	Congenital disorder of glycosylation, type Ic (603147)	AR	36	—
PGD288	poly(A) binding protein nuclear I	PABPN1	Oculopharyngeal muscular dystrophy (164300)	AD	30	—
PGD302	tuberous sclerosis I	TSC1	Tuberous sclerosis-1 (191100)	AD	35	—
N = 42		Mean maternal age (\pm SD)			30 (4.4)	

PGT-M = Preimplantation genetic testing for a monogenic disorder; OMIM = Online Mendelian Inheritance in Man; AD = autosomal dominant; AR = autosomal recessive; XLR = X-linked recessive; AMA = advanced maternal age; RIF = recurrent implantation failure; RPL = recurrent pregnancy loss; MF = male factor; — = no indication of infertility.