

chrX	153318715	153325009	GDI1	Xq28	X-linked mental retardation		●	●	●	
chrX	122145839	122450474	GRIA3	Xq24	X-linked mental retardation	○	●	●	●	
chrX	53474931	53479048	HADH2(HSD17B10)	Xp11	X-linked mental retardation		●	●	●	
chrX	11039373	11051122	HCCS	Xp22	X-linked mental retardation	●	●	●	●	
chrX	28515480	29884757	IL1RAPL1	Xp21	X-linked mental retardation	●	●	●	●	
chrX	53237378	53271329	JARID1C	Xp11	X-linked mental retardation		●	●	●	
chrX	73870137	74061709	KIAA2022	Xq13	X-linked mental retardation	○	●	●	●	
chrX	56275632	56328254	KLF8	Xp11	X-linked mental retardation		●	●	●	
chrX	118889762	118894646	NDUFA1	Xq24	X-linked mental retardation		●	●	●	
chrX	100973741	100999205	NXF5	Xq22	X-linked mental retardation		●	●	●	
chrX	110074169	110350829	PAK3	Xp22	X-linked mental retardation	○	●	●	●	
chrX	53979838	54088121	PHF8	Xp11	X-linked mental retardation		●	●	●	
chrX	48252315	48264146	PORCN	Xp11	X-linked mental retardation		●	●	●	
chrX	48640139	48645364	PQBP1	Xp11	X-linked mental retardation		●	●	●	
chrX	153279912	153283874	RPL10	Xq28	X-linked mental retardation		●	●	●	
chrX	50351387	50573784	SHROOM4(KIAA1202)	Xp11	X-linked mental retardation		●	●	●	
chrX	48201871	48213509	SLC38A5	Xp11	X-linked mental retardation		●	●	●	
chrX	21868763	21922876	SMS	Xp22	X-linked mental retardation		●	●	●	
chrX	139411973	139415436	SOX3	Xq27	X-linked mental retardation	●	●	●	●	
chrX	47316244	47364200	SYN1	Xp11	X-linked mental retardation		●	●	●	
chrX	38305683	38433116	TM4SF2(TSPAN7)	Xp11	X-linked mental retardation		●	●	●	
chrX	118592527	118602407	UBE2A	Xq23	X-linked mental retardation		●	●	●	
chrX	118852017	118870996	UPF3B	Xq24	X-linked mental retardation	○	●	●	●	
chrX	8393346	8394346	VCX3A	Xp22	X-linked mental retardation		●	●	●	
chrX	74508786	74659600	ZDHC15	Xq13	X-linked mental retardation		●	●	●	
chrX	128786584	128905805	ZDHC9	Xq25	X-linked mental retardation		●	●	●	
chrX	70376199	70391660	ZNF261(ZMYM3)	Xq13	X-linked mental retardation		●	●	●	
chrX	47191350	47227289	ZNF41	Xp11	X-linked mental retardation		●	●	●	
chrX	47581245	47666550	ZNF81	Xp11	X-linked mental retardation		●	●	●	
chrX	73557810	73670475	SLC16A2	Xq13	X-linked mental retardation, allan-herndon-dudley		●	●	●	#
chrX	134895252	134957094	SLC9A6	Xq26	X-linked mental retardation, christianson type		●	●	●	#
chrX	53576476	53730398	HUWE1	Xp11	X-linked mental retardation, turner	○	●	●	●	#
chrX	67179440	67570372	OPHN1	Xq12	X-linked mental retardation, with cerebellar hypoplasia and distinctive facial appearance	●	●	●	●	#
chrX	18353678	18581666	CDKL5	Xp22.13	X-linked spasms		●	●	●	#
chrX	46581319	46626733	RP2	Xp11	Xp11.3 deletion		●	●	●	#
chrX	46243490	46289620	ZNF674	Xp11	Xp11.3 deletion		●	●	●	#
chr9	126283337	126309520	NRS1A1	9q33.3	XY Sex Reversal	●	●	●	●	
chr19	62384680	62433350	ZNF264	19q13	Zinc finger protein-264		●	●	●	
chr2	20294916	203140719	BMPR2	2q32			●	●	●	
chr7	129710229	129761249	CPA4	7q32			●	●	●	
chr7	130058017	130079399	KLF14	7q32			●	●	●	
chr7	129903281	129943368	MEST	7q32			●	●	●	
chr7	98084545	98097116	NPTX2	7q22			●	●	●	
chr7	94364911	94770958	PPP1R9A	7q21		○	●	●	●	
chr8	140683985	140794480	KCNK9	8q24			●	●	●	
chr11	1975651	1980951	H19_ICRegion	11p15			●	●	●	
chr11	2671987	2683633	KCNQ1_ICRegion	11p15		○	●	●	●	
chr11	3054921	3153115	OSBPL5	11p15			●	●	●	
chr13	65774967	66702464	FCDH9	13q21		●	●	●	●	
chr14	20823198	20975244	CHD8	14q11			●	●	●	
chr14	100252981	100281225	DLK1	14q32			●	●	●	
chr14	100261144	100364369	DLK1&MEG3_ICRegion	14q32			●	●	●	
chr14	28306038	28308622	FOXP1B	14q12		●	●	●	●	
chr14	100352214	100407118	MEG3	14q32			●	●	●	
chr14	20897000	20932000	MicroDeletionRegion	14q11			●	●	●	
chr14	20889476	20922265	SUPT16H	14q11			●	●	●	
chr15	49527231	49702259	DMXL2	15q21			●	●	●	
chr16	6009133	7702500	A2BP1	16p13		●	●	●	●	
chr18	73090996	73111084	GALR1	18q23			●	●	●	
chr18	42798570	42820446	TCEB3C	18q21			●	●	●	
chr19	62005614	62053875	PEG3	19q13			●	●	●	
chr19	62040958	62043979	PEG3_ICRegion	19q13			●	●	●	
chr19	61967731	62053886	ZIM2	19q13			●	●	●	
chr20	56676787	56680787	GNAS_ICRegion	20q13			●	●	●	
chr20	56859056	56861251	GNAS_ICRegion	20q13			●	●	●	
chr20	56896896	56899356	GNAS_ICRegion	20q13			●	●	●	
chr20	41566487	41613948	L3MBTL	20q13			●	●	●	
chr20	35573020	35595505	NNAT	20q11			●	●	●	
chr22	16454903	16491588	ATP6V1E1	22q11			●	●	●	
chrY	2714821	2716600	SRY	Yp11.31		●	●	●	●	#

Microdeletions or microduplications have been associated with this condition
○ Low coverage of syndrome
● Coverage of syndrome
● No Coverage of Syndrome

Each design includes coverage for all aneuploidies and all sub-telemeres

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