Supplemental Table SI. TaqMan copy number assay details

Locus	Assay ID	Gene	Target Coordinates	# Cases Tested	# Controls Tested
1p34.2	Hs03369968_cn	*CCDC30*	Chr.1:43,018,088	34	198
	Hs03355957_cn		Chr.1:43,031,517	34	24
1q25.3	Hs00499239_cn	*COLGALT2*	Chr.1:183,923,980	34	25
	Hs05762474_cn	-	Chr.1:184,184,766	34	198
2p12	Hs05813312_cn	-	Chr.2:81,206,766	34	198
	Hs04677525_cn		Chr.2:81,331,795	34	24
3q26.32	Hs04741060_cn	-	Chr.3:176,979,148	34	24
	Hs06667233_cn		Chr.3:176,987,683	34	198
4q22.3	Hs04852209_cn	*BMPR1B*	Chr.4:95,987,323	34	24
	Hs02817570_cn		Chr.4:96,025,606	34	24
	Hs04866592_cn	*UNC5C*	Chr.4:96,112,131	34	198
4q24	Hs05939319_cn	-	Chr.4:104,837,852	34	24
	Hs04866497_cn		Chr.4:104,982,988	34	198
	Hs05932226_cn		Chr.4:105,031,088	34	24
4q28.3	Hs05912262_cn	-	Chr.4:133,019,199	34	24
	Hs04849484_cn		Chr.4:133,037,687	34	198
	Hs04883161_cn		Chr.4:133,028,670	34	24
5p15.2	Hs06018549_cn	*CTNND2*	Chr.5:11,868,014	34	198
	Hs05998078_cn		Chr.5:11,880,196	34	25
6p24.3	Hs04914073_cn	*GCNT2*	Chr.6:10,533,075	34	25
	Hs03618929_cn	*C6orf52*	Chr.6:10,684,894	34	198
6p12.3	Hs06161050_cn	-	Chr.6:49,785,779	34	24
	Hs06153060_cn	*CRISP1*	Chr.6:49,804,497	34	198
6q12	Hs03089586_cn	-	Chr.6:66,978,264	34	198
	Hs06795352_cn		Chr.6:67,187,958	34	198
	Hs06815519_cn		Chr.6:67,379,660	Probe excluded	
7p12.2	Hs05006345_cn	-	Chr.7:49,221,712	34	198
	Hs04985951_cn		Chr.7:49,293,487	34	24
9p23	Hs03276415_cn	*PTPRD*	Chr.9:10,333,515	34	24
	Hs03277406_cn	-	Chr.9:10,640,718	34	24
	Hs06894124_cn		Chr.9:10,996,224	34	24
	Hs06871865_cn		Chr.9:11,043,173	34	198
11p15.4	Hs06324577_cn	*STIM1*	Chr.11:3,927,239	34	25
	Hs06286180_cn		Chr.11:3,940,908	34	198
	Hs06291426_cn		Chr.11:3,961,210	34	25
13q14.3	Hs06378690_cn	-	Chr.13:54,280,419	34	198
	Hs05292114_cn		Chr.13:54,443,857	34	25
17p12	Hs05513120_cn	*SHISA6*	Chr.17:11,453,820	34	198
	Hs05498056_cn	*ZNF18*	Chr.17:11,887,582	34	24
	Hs06420475_cn	*MYOCD*	Chr.17:12,594,654	34	24
17q22	Hs03978967_cn	*C17orf67*	Chr.17:54,890,968	34	24
	Hs03973468_cn	*DGKE*	Chr.17:54,942,334	34	198

Supplemental Table SII. Additional rare X chromosome CNVs identified but not followed up in patients with prune belly syndrome

Locus	Genomic Coordinates	Size (bps)	Type	Study Subject ID	Gene(s)/Transcript(s)
Xq13.2	71,784,938.. 71,957,183	172,245	Dupl	12	*PHKA1*
Xq21.1	81,243,685.. 81,273,865	30,180	Del	12	NA

Abbreviations: Del: Deletion, Dupl: Duplication.
Coordinates (hg19) predicted using PennCNV.

Supplemental Table SIII. Phenotype of 14 prune belly syndrome cases with identified CNVs

Study Subject ID	Phenotype
1	Hirschsprung, intestinal duplication, unspecified anomaly of gastrointestinal tract
2	Dextrocardia, imperforate anus
3	Isolated
4	Intestinal duplication, accessory kidney, absence of ureter
5	Ostium secundum, hip dysplasia
6	Isolated
7	Gastrointestinal tract malrotation
8	Gastroschisis
9	Isolated
10	Isolated
11	Isolated
12	Isolated
13	Isolated
14	Accessory kidney, pectus excavatum, omphalocele