

**Supplementary Table SII Rare copy number changes identified in women with spontaneous premature ovarian failure (POF).**

Chr	Start (hg19)	End (hg19)	Length (bp)	Genes within CNVR	CNVRs among cases (n = 301)	CNVRs among controls (n = 3188)
(A) Microdeletions in a cohort of women with spontaneous POF						
1	49100192	50081573	981 381	AGBL4, BEND5	1	0
1	62212822	62422442	209 620	INADL	1	0
1	240371821	240561727	189 906	FMN2	1	1
2	73828493	73900329	71 836	ALMS1, NAT8	1	0
4	177006043	177109326	103 283	WDR17, SPATA4	1	0
6	73697858	73935015	237 157	KCNQ5, KHDC1L	1	0
7	2302956	2377332	74 376	SNX8	1	0
7	33639870	33730376	90 506	BBS9	1	8
8	8131816	12249050	4 117 234	SGK223...FAM66A	1	0
8	113618413	113719181	100 768	CSMD3	1	0
9	95063947	95179836	115 889	NOL8, CENPP, OGN, OMD	1	1
9	114337013	114387135	50 122	ZNF483, PTGR1	1	0
9	119285144	119803933	518 789	ASTN2, TRIM32	1	0
10	135256762	135379710	122 948	CYP2E1, SYCE1	2	
15	57667027	57734290	67 263	CGNLI	1	0
15	83213963	84811815	1 597 852	CPEB1, AP3B2, FSD2, WHAMM, HOMER2, FAM103A1, C15orf40, BTBD1, TM6SF1, HDGFRP3, BNCL1, SH3GL3, ADAMTSL3, EFTUD1P1	1	0
17	11885	114669	102 784	DOC2B, RPH3AL	1	1
17	14105874	15383769	1 277 895	COX10, CDRT15, HS3ST3B1, PMP22, TEK3, CDRT4	1	1
19	3804701	3835177	30 476	ZFR2	1	0
19	48063134	48282069	218 935	GLTSCR1, EHD2	1	0
22	43122720	43500212	377 492	ARFGAP3, PACSIN2, TLL1	1	
X	2591887	2802568	210 681	CD99, XG, GYG2	1	0
X	99931059	120328627	2 0397 568	SYTL4...GLUD2	1	0
(B) Microduplications in a cohort of women with spontaneous POF						
1	35570364	35656664	86 300	ZMYM1, SFPQ	1	0
1	59891821	61162222	1 270 401	FGGY, HOOK1, CYP2J2, C1orf87, PGBD4P8	1	0
1	173697478	174010664	313 186	KLHL20, CENPL, DARS2	1	8
1	237083719	237586469	502 750	RC3H1	1	0
2	95444917	95977790	532 873	ANKRD20A8P, TEK4, MAL, MRPS5, ZNF514, ZNF2, PROM2, KCNIP3	1	0
2	133584471	133902333	317 862	NCKAP5	1	1
2	200250898	201845999	1 595 101	SATB2, FTCDNLI, C2orf69, TYW5, C2orf47, SPATS2L, KCTD18, SGOL2, AOX1, AOX2P, BZWI, CLK1, PPIL3, NIF3LI, ORC2, FAM126B	1	1
2	216629374	217251859	622 485	MREG, PECR, TMEM169, XRCC5, PKI55, MARCH4	1	0
3	66894	2552565	2 485 671	CHL1, CNTN6, CNTN4	1	10
3	122964492	123080578	116 086	SEC22A, ADCY5	1	0
3	182896411	183198268	301 857	MCF2L2, B3GNT5	1	0
4	10188326	11112475	924 149	ZNF518B, CLNK	1	0
4	57759221	57795328	36 107	REST	1	0
4	80179372	80566060	386 688	NAA11, GK2	1	7
5	9529809	9990381	460 572	SEMASA, TAS2R1	1	0
5	34003361	34663915	660 554	AMACR, C1QTNF3, RAI14	1	1

Continued

**Supplementary Table SII** *Continued*

<b>Chr</b>	<b>Start (hg19)</b>	<b>End (hg19)</b>	<b>Length (bp)</b>	<b>Genes within CNVR</b>	<b>CNVRs among cases (n = 301)</b>	<b>CNVRs among controls (n = 3188)</b>
6	170713690	170890384	176 694	<i>FAM120B, PSMB1, TBP, PDCD2</i>	1	1
7	21483605	21589243	105 638	<i>SP4, DNAH11</i>	1	0
7	37741319	37885121	143 802	<i>GPR141</i>	1	0
7	140070378	140129626	59 248	<i>SLC37A3, RAB19</i>	1	2
8	104996667	105229526	232 859	<i>RIMS2</i>	1	0
12	104908843	105074764	165 921	<i>CHST11</i>	1	0
12	125260645	125321461	60 816	<i>SCARB1</i>	1	1
15	82429837	82691453	261 616	<i>EFTUD1, FAM154B, GOLGA6L10</i>	1	0
16	13889247	14163635	274 388	<i>ERCC4</i>	1	0
16	29779861	29980031	200 170	<i>ZG16, KIF22, MAZ, PRRT2, PAGRI, MVP, CDIPT, SEZ6L2, ASPHD1, KCTD13, TMEM219</i>	1	1
17	34815551	36220373	1 404 822	<i>ZNHIT3, MYO19, PIGW, GGNBP2, DHRS11, MRM1, LHX1, AATF, ACACA, C17orf78, TADA2A, DUSP14, SYNRG, DDX52, HNF1B</i>	1	8
18	9450518	9547947	97 429	<i>RALBP1, PPP4R1</i>	1	0
21	27502468	27849346	346 878	<i>APP, CYR1</i>	1	0
22	37485062	37618530	133 468	<i>TMPRSS6, IL2RB, C1QTNF6, SSTR3</i>	1	0
X	6516735	8135053	1 618 318	<i>HDHD1, STS, VCX, PNPLA4</i>	2	21
X	66905875	67475065	569 190	<i>AR, OPHN1</i>	1	1

CNVR, copy number variation region.