Additional file 1. The SureSelect Custom Targeted Gene Panel.

CPLANE1, ACTA2, ACTC1, ACVR2B, AHI1, ALMS1, ANKS6, ARL3, ARL6, ARMC, ARMC9, B3GAT3, B9D1, B9D2, BBS1, BBS10, BBS12, BBS2, BBS4, BBS5, BBS7, BBS9, BCOR, BICC1, BMP4, C11ORF70, C21ORF59, C5ORF42, CC2D2A, CCDC103, CFAP53, CCDC114, CCDC151, CCDC39, CCDC40, CCDC65, CCNO, CCP110, CDC5L, CDK13, CENPF, CEP104, CEP120, CEP164, CEP290, CEP41, CEP83, CFAP52, CFC1, CHD1L, CHD7, CRB2, CRELD1, CRKL, CSPP1, DHCR7, DNAAF1, DNAAF2, DNAAF3, DNAAF5, DNAH1, DNAH11, DNAH5, DNAH9, DNAI1, DNAI2, DNAJB11, DNAL1, DRC1, DSTYK, DYNC2H1, DYNC2LI1, DYX1C1, DZIP1L, EHMT1, EYA1, FGF20, FOXH1, FRAS1, FREM1, FREM2, GANAB, GAS8, GATA3, GATA4, GATA5, GATA6, GDF1, GJA1, GJA5, GLI3, GLIS2, GREB1L, HAND1, HNF1B, HYDIN, IFT140, IFT172, IFT27, IFT52, IFT74, IFT80, IFT81, INPP5E, INVS, IQCB1, ITGA8, JAG1, ANOS1, KIAA0556, KIAA0586, KIF7, LAMA2, LEFTY2, LRP2, LRRC56, LRRC6, LZTFL1, MCIDAS, MCTP2, MED13L, MEIS2, MKKS, MKS1, MMP21, MNS1, NEK1, NEK8, NKX2-5, NKX2-6, NME8, NODAL, NOTCH1, NOTCH2, NPHP1, NPHP3, NPHP4, NR2F2, NSD1, OFD1, PAX2, PBX1, PDE6D, PIH1D3, PKD1, PKD1L1, PKD2, PKHD1, PRKD1, PTK7, RBFOX2, REN, RET, ROBO2, RPGR, RPGRIP1L, RSPH1, RSPH3, RSPH4A, RSPH9, SALL1, SALL4, SDCCAG8, SIX1, SIX2, SIX5, SLIT3, SOX17, SPAG1, STK36, TAB2, TBC1D32, TBX1, TBX20, TBX3, TBX5, TCTN1, TCTN2, TCTN3, TFAP2B, TLL1, TMEM107, TMEM138, TMEM216, TMEM231, TMEM237, TMEM67, TNXB, TRAF3IP1, TRAP1, TRIM32, TTC21B, TTC25, TTC8, UMOD, UPK3A, WDPCP, WDR19, WDR34, WDR35, WDR60, WNT4, ZFPM2, ZIC3, ZMYND10, ZNF423

The panel comprises 206 genes implicated in isolated or syndromic congenital heart disease, heterotaxy, renal defects, motile and non-motile ciliopathies. The 40 genes described in association with Primary ciliary dyskinesia (PCD) cases are highlighted in yellow. Additionally, 11 heterotaxy-related genes are highlighted in green.