Lung deviations Age Age 8 ROS1 20-29 PLA2G4F 30 - 39PSCA 50-59 6 F11 RGPD2 60-69 AGTR2 SLC26A9 4 MMP1 PRM2 CSF2 2 LAMP3 LINC00885 PRM1 EGFL6 ARHGEF38 TRAM1L1 MFSD2A TP53AIP1 TNP1 GABRG1 TIGD4 HSPA1A UROC1 LINC01186 IRX1 LINC02042 CFTR LONRF2 **HRG** SERPINA6 CCER2 ZBED2 SLC5A5 **GPR156** GRIK2 DSCC1 CYP2J2 UGT2B10 ASIC4 **RXRG IVL** IRX2 MIR4257 CALML5 ZNF860 FAM225B TMPRSS2 HMGB4 NKAPL TTC30B COL28A1 TP53INP1 TTC30A HSF2BP **ZNF391** DNAJB1 ACE2 PTCD2 FAM161B NKX1-2 SLC39A8 **MTBP** ATG9B **GPAM** SOX14 TMEM61 PPM1J SDCBP2 LIPH TRAIP ANKRD35 CLEC3A RAB25 SUSD4 ACOXL ZSWIM4 SPDL1 NRL EFHC2 MAP10 CHST10 YOD1 SNORA59A ZNF287 ZNF502 ELAC1 C16orf96 TMEM229B C3orf14 ZNF425 C7orf65 CCDC138 C3orf18 **GNRH1** DHFR2 **EMSY** FAM110A UGT1A4 KLHL35 NEK2 PRR34 NMI **GRPEL2** NUFIP1 SERPINA7 PRR22 EPHA5-AS1 GPT2 E2F5 DCLRE1A GPR68 HGH1 FDXACB1 CST1 TAF1D GGACT ZNF786 LIN52 RBM34 BBC3 NDUFS2 MON1A SULT1A1 TANC1 MAPRE3 CENPBD1 BAIAP2L1 ZNF696 BSN PDE8A TFEC ARFGEF3 C22orf46 ATP13A3 TFCP2 UBA6 GINS3 SMG8 **ZNF583** UBR4 DIS3L B3GALT6 WASHC5 CCDC77 ZNF554 ASH2L SPRY2 NOL4L TRAF6 WRAP53 **PHAX** DET1 PRMT6 MRM2 TMEM25 SKA2 EZH2 COMMD8 IGF2BP2 MRPL1 ZC3H12C TRUB1 TUBGCP5 RASGRF2 SMC2 FAAH AP5S1 CNBD1 **IMPACT** ROBO1 TTC26 HERC6 RHOQ SAC3D1 SPAST TRUB2 MRPS11 ZNF75A PPP1R8 NUFIP2 EEF1AKMT1 RPUSD1 CCDC43 ZNF518A BCAS2 RFX3 ZFC3H1 ZNF195 SOCS4 RAD51D RBBP5 RAD17 ZNF362 LRRC27 SLX4IP SUV39H1 DDIT3 TARBP1 **EXOG** TTC8 ZNF202 **UBTF** SNORA8 TTC39B WDR31 THEM4 PSME4 **GAN** BCS1L ALKBH4 YIPF5 GON7 LLGL1 ORC3 DGKA HSF2 THAP9 CCDC106 ZNF41 RTN4IP1 FKTN PRADC1 CCDC71 C1orf50 TRAFD1 C12orf43 RORA RTTN KLHL12 DNAJC30 KIF20B ARMC1 CBLB **PCNA** SETMAR FANCM RNF170 CSTF2 HDHD5 VPS33A **ZNF470** DROSHA SMARCAL1 ZNF777 NCKAP1L SLC35A5 NUDT12 TTPAL SAAL1 **ATMIN** C3orf33 TMEM223 **OGFR** EHMT2 ZNF8 ZNF674 IFT46 ALKBH3 ELP3 PRPF18 FUBP1 NIF3L1 TXNRD1 DTD2 GATAD2B SCAF4 COG6 RNF168 ELP6 TERF1 **SNRPC** DTD1 LANCL1 OGG1 GPATCH1 PAK1IP1 **RPIA** CLCN3 MDP1 TIMM21 ECI2 LMBRD2 ZNF16 POP7 STK38 CPSF3 PIGB POC₅ ESF1 KIF15 CDKN2AIPNL CPT2 GTF2H3 CCDC127 **PIGC** PCMTD2 NFYA UPF3A MKL1 CCDC88C ANAPC5 CHCHD4 KCTD18 FUS GTF2H5 SNX15 LINC01180 EIF2AK4 ZNF136 SLC25A12 PAXIP1 PHF8 RAD51C SLC4A1AP SCCPDH FECH ZFP41 ZKSCAN2 ZNF143 ZNHIT6 TRAPPC12 ZMYM2 HNRNPDL RPA2 C2CD5 PCNX4 PREP TSN MRPL32 **TMEM199** CLUAP1 SNX11 FUNDC1 ALG1 TMEM62 LARP4 RFT1 PLEKHA8 LYRM2 ZNF517 ITFG2 TACO1 ZNF611 OTUD4 METTL15 RITA1 SUGP1 INO80C MTIF2 BAZ2A RASA2 SETD5 CTR9 ZC3HC1 ORC5 ELP4 DIDO1 ESCO₁ ING3 KPNA6 PLRG1 CCDC25 DDX55 PTAR1 REXO4 COPS7A C17orf75 DRAM2 RIPK1 **FARSA** ZMAT5 MRPL27 DHX29 ZBTB45 TRAPPC6B CINP NUP188 NSUN5 MED28 PSMG3 TRAPPC13 ZNF24 ERAL1 **FXN** TK2 MED29 COX18 CELF1 **MAFG** DHX57 **BCKDHA** TMEM222 DDX1 YTHDF1 HECTD2 SNAP29 NOL11 RNF187 DDX18 FIZ1 FLYWCH2 POLR3E DDX39A MTF2 WDR26 HIF1AN TMF1 CHAF1A JOSD2 ACTR10 UPRT DNAJC24 YTHDF2 ZNF428 UBE2D4 ZSCAN29 SETD4 ZC3H4 CTDSP2 ACBD6 **RABEPK MECR** CSNK1A1 ETFRF1 MRPS17 TANGO6 IMMP1L NMRAL1 CXorf38 PRDM4 RPP30 ZBTB34 TANK COMMD5 ZNF511 ALG8 PIAS4 GPN1 COX17 CLINT1 WDR7 TSR3 PKNOX1 CNOT9 SAMM50 OARD1 **BRAP** CDC123 MUL1 TMEM39B GOLGA5 MRPL58 KIF16B HAX1 SCAMP3 SUGT1 TRPC4AP TMEM184C SARS2 MRPL57 RNF20 TERF2 FAM193A **SFPQ** VRK3 **GNPDA2 NPEPPS** INTS14 C8orf76 XPNPEP1 TNRC6C SNAP47 PPP1CA IRF9 TBRG1 MRPL33 PPP6R3 DRG1 TBC1D9B CHD8 GART CRYZL1 USP42 PHF6 TAF7 ASNA1 FASTK VPS36 EFR3A DIS3 ZNF142 LEMD2 TADA3 DCAF5 TOMM22 MIB1 PTGES3 FARS2 IWS1 VIPAS39 DDX49 UBE2Q1 NSD1 FΗ MRPS27 RC3H2 PSMG2 MCRS1 TMEM131 MEA1 SNRPD3 STS FHL1 KCNK7 **OR51I1** DEFB4B