Supplementary Table1. Information of patients carrying 22q11.2 deletion.

| Sample name/Age (years)/Sex | CNVs | CNV region (hg18) | Psychiatric diagnosis | Congenital and developmental phenotypes | Core psychiatric symptoms | Physical comorbidities | Brain imaging/laboratory tests |
|---|---|---|---|---|---|---|---|
| 22DS1/23/Male | 22q11.2 deletion | chr22:17,271,966-19,961,412 | intellectual disability | tetralogy of Fallot, renal agenesis, cryptorchidism, motor and speech delay | behavioral problems caused by hyperthyroidism | idiopathic thrombocytopenic purpura, serous otitis media, destructive thyroiditis (hyperthyroidism), sensorineural hearing loss | MRI: mild cerebral atrophy |
| 22DS2/42/Female | 22q11.2 deletion | chr22:17,170,222-20,072,277 | schizophrenia, intellectual disability | ventricular septal defect, cleft of soft palate, dysarthria, motor and speech delay | delusions, hallucinations, manic and depressive symptoms, temper outburst, excitement | hyperthyroidism, peroneal nerve paralysis, food allergy | CT: frontal atrophy, bilateral basal ganglia calcification |
| 22DS3/23/F | 22q11.2 deletion | chr22:17,150,356-19,961,412 | Selective mutism, intellectual disability | speech delay, ventricular septal defect, cleft of palate | Failure to speak in specific social situations | short stature, thyroid tumor | MRI: no significant findings |