

Table S6: Phenotypic Feature Grouping by PCA and Clustering the Molecular Genetics of Schizophrenia Sample (Group), and Validation with the Literature and Expert Knowledge (Symptoms)

| Phenotypic features (DIGS) | Group | Symptoms |
|-----------------------------------|--------------|-----------------|
| Jealousy_Delusions[I11110] | 1 | + |
| Guilt_Sin_Delusions[I11180] | 1 | - |
| Religious_Delusions[I11320] | 1 | +/- |
| Somatic_Delusions[I11390] | 1 | - |
| Del_of_Ref[I11460] | 1 | + |
| Being_Controlled[I11530] | 1 | - |
| Del_Mind_Reading[I11600] | 1 | - |
| Thought_Broadcasting[I11670] | 1 | - |
| Thought_Insert[I11740] | 1 | - |
| Thought_Withdraw[I11810] | 1 | - |
| Running_Comment[I12100] | 1 | - |
| Aud_2+_Voices[I12170] | 1 | + |
| Thought_Echo[I12240] | 1 | - |
| Somatic_Tactile[I12520] | 1 | - |
| Olfactory_Hal[I12590] | 1 | - |
| Gustatory_Hal[I12730] | 1 | - |
| Mood_Incongruent_Hal[I17706] | 1 | - |
| Odd_Behavior[I12920] | 1 | - |
| Disorganized_Speech[I12990] | 1 | - |
| Odd_Speech[I13060] | 1 | - |
| Avolition_Apathy[I13240] | 1 | - |
| No_Emotions[I13310] | 1 | - |
| Disorg/Inapp_Behav[I21050] | 1 | - |
| Alogia[I21400] | 1 | - |
| cs_A1a | 2 | - |
| cs_A2a | 2 | - |
| cs_A3 | 2 | - |
| cs_A4 | 2 | - |
| cs_A5 | 2 | - |
| Return_Normal_for_2Months[I13600] | 2 | - |
| DSM4_Definite_Bizarre_Del[A60b] | 2 | +/- |
| DSM4_Hallucinations[A60c] | 2 | + |
| DSM4_2+Voices_Commented[A60d] | 2 | - |
| DSM4_Disorganized_Speech[A60e] | 2 | - |
| DSM4_Gross_Disorganization[A60f] | 2 | - |
| DSM4_Negative_Sx[A60g] | 2 | - |
| cs_A1 | 3 | + |
| cs_A2 | 3 | + |

| | | |
|--|---|-----|
| Auditory_Halns_Ever[I10920] | 3 | + |
| Persecutory_Delusions[I11030] | 3 | + |
| Delusion_Fragment[I12000] | 3 | - |
| Delusion_Widespread[I12010] | 3 | + |
| Delusion_Bizarre[I12020] | 3 | + |
| AH(Voices_Noises_Music)[I12030] | 3 | + |
| Pattern_Sx[I14350] | 3 | + |
| Severity_Pattern[I14360] | 3 | + |
| Unable_To_Function_Most_Time_Since_Onset[I21500] | 3 | +/- |
| Classification_Longitud_SZ[I21560] | 3 | + |
| Psychosis_without_Dep_Mania[A620] | 3 | + |
| Psychosis_without_Dep_Mania_>=1week[A62a] | 3 | + |
