**Supplementary table 1 Details of the GWASs**

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| --- | --- | --- | --- | --- | --- |
| **GWAS ID** | **Trait** | **Consortium** | **Population** | **Participants** | **PMID** |
| **ieu-a-1187** | Major depression | PGC | European | 480,359 | 29700475 |
| **ieu-b-41** | Bipolar Disorder | PGC | European | 51,710 | 31043756 |
| **ieu-b-5102** | Schizophrenia | PGC | European | 127,906 | 35396580 |