|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Chr  | BP Start | BP End | Gene | Sources |
| 1 | 231762561 | 232177019 | *DISC1\*\** | (1) |
| 1 | 115828537 | 115880857 | *NGF* | (2) |
| 1 | 160765864 | 160798045 | *LY9* | (3) |
| 1 | 89517987 | 89531043 | *GBP1\*,\*\** | (3) |
| 2 | 44589043 | 44999731 | *CAMKMT\** | (4) |
| 2 | 183004762 | 183387572 | *PDE1A* | (4) |
| 3 | 113847557 | 113897899 | *DRD3* | (4) |
| 3 | 101659703 | 101716770 | *LOC152225* | (4) |
| 4 | 34312045 | 34312045 | *cg09242288* | (5) |
| 5 | 10971952 | 11904110 | *CTNND2\*,\*\** | (1) |
| 5 | 63255875 | 63258119 | *HTR1A* | (4) |
| 5 | 142657496 | 142784045 | *NR3C1* | (4) |
| 5 | 1392905 | 1445543 | *SLC6A3* | (4) |
| 5 | 153418519 | 153437014 | *MFAP3* | (3) |
| 6 | 35541362 | 35656719 | *FKBP5* | (5) |
| 6 | 78171948 | 78173120 | *HTR1B* | (4) |
| 6 | 169615875 | 169654137 | *THBS2* | (4) |
| 7 | 31092076 | 31151093 | *ADCYAP1R1\** | (5) |
| 7 | 34697897 | 34917944 | *NPSR1* | (4) |
| 7 | 24323807 | 24331484 | *NPY* | (4) |
| 11 | 27676442 | 27722600 | *BDNF* | (1, 2, 4) |
| 11 | 113280317 | 113346001 | *DRD2\** | (1, 4) |
| 11 | 637305 | 640705 | *DRD4* | (4) |
| 13 | 47405677 | 47471211 | *HTR2A* | (4) |
| 17 | 43861646 | 43913194 | *CRHR1\** | (4) |
| 17 | 28521337 | 28562986 | *SLC6A4* | (4) |
| 17 | 18231187 | 18266856 | *SHMT1* | (3) |
| 22 | 19929263 | 19957498 | *COMT* | (3, 4) |

**Table S3. Candidate Genes**. Genes extracted from a literature review as being associated with anxiety and/or PTSD. Base pair regions are for the gene itself using hg19 from the UCSC Genome Browser (6). \*Associated with depression in GWAS Catalog. \*\*Associated with antidepressants in GWAS Catalog (7).

Chr, chromosome; BP, base pair.

References

1. Smoller JW. The Genetics of Stress-Related Disorders: PTSD, Depression, and Anxiety Disorders. Neuropsychopharmacology. 2016 Jan;41(1):297-319. PMID: 26321314.

2. Duncan LE, Ratanatharathorn A, Aiello AE, Almli LM, Amstadter AB, Ashley-Koch AE, et al. Largest GWAS of PTSD (N=20 070) yields genetic overlap with schizophrenia and sex differences in heritability. Mol Psychiatry. 2018 Mar;23(3):666-73. PMID: 28439101.

3. Niculescu AB, Le-Niculescu H, Levey DF, Roseberry K, Soe KC, Rogers J, et al. Towards precision medicine for pain: diagnostic biomarkers and repurposed drugs. Mol Psychiatry. 2019 Apr;24(4):501-22. PMID: 30755720.

4. Gottschalk MG, Domschke K. Genetics of generalized anxiety disorder and related traits. Dialogues Clin Neurosci. 2017 Jun;19(2):159-68. PMID: 28867940.

5. Daskalakis NP, Rijal CM, King C, Huckins LM, Ressler KJ. Recent Genetics and Epigenetics Approaches to PTSD. Curr Psychiatry Rep. 2018 Apr 5;20(5):30. PMID: 29623448.

6. Kent WJ, Sungent CW, Furey TS, Roskin KM, Pringle TH, Zahler AM, et al. The human genome browser at UCSG. Genome Res. 2002 Jun;12(6):996-1006.

7. Buniello A, MacArthur JAL, Cerezo M, Harris LW, Hayhurst J, Malangone C, et al. The NHGRI-EBI GWAS Catalog of published genome-wide association studies, targeted arrays and summary statistics 2019. Nucleic Acids Res. 2019;47(D1):D1005-D12. PMID: 30445434.