

Table S6 Results of the GWAS and replication study for SNPs in VAV3

| | | Allele 1/2 | | Genotype count (event) | | | Genotype count (no event) | | | Minor allele frequency (event) | Minor allele frequency (no event) | Hardy-Weinberg equilibrium <i>P</i> | Log-rank <i>P</i> |
|------------|-------------|---------------|---|---------------------------|----|----|------------------------------|-----|-----|--------------------------------------|---|--|-------------------|
| | | | | 11 | 12 | 22 | 11 | 12 | 22 | | | | |
| rs2504469 | GWAS | T | C | 10 | 9 | 11 | 15 | 91 | 104 | 0.48 | 0.29 | 0.64 | 1.1E-03 |
| | Replication | | | 0 | 10 | 6 | 6 | 37 | 46 | 0.31 | 0.28 | 0.27 | 6.7E-01 |
| | Combined | | | 10 | 19 | 17 | 21 | 128 | 150 | 0.42 | 0.28 | 0.87 | 5.7E-03 |
| rs12142335 | GWAS | A | G | 0 | 3 | 27 | 0 | 6 | 204 | 0.05 | 0.01 | 0.77 | 3.5E-03 |
| | Replication | | | 0 | 1 | 15 | 0 | 1 | 88 | 0.03 | 0.01 | 0.92 | 1.7E-01 |
| | Combined | | | 0 | 4 | 42 | 0 | 7 | 292 | 0.04 | 0.01 | 0.76 | 4.4E-03 |
| rs4462178 | GWAS | T | C | 0 | 3 | 27 | 0 | 6 | 204 | 0.05 | 0.01 | 0.77 | 3.5E-03 |
| | Replication | | | 0 | 1 | 15 | 0 | 1 | 88 | 0.03 | 0.01 | 0.92 | 1.7E-01 |
| | Combined | | | 0 | 4 | 42 | 0 | 7 | 292 | 0.04 | 0.01 | 0.76 | 4.4E-03 |
| rs10494076 | GWAS | A | G | 27 | 3 | 0 | 204 | 6 | 0 | 0.05 | 0.01 | 0.77 | 3.5E-03 |
| | Replication | | | 15 | 1 | 0 | 88 | 1 | 0 | 0.03 | 0.01 | 0.92 | 1.7E-01 |
| | Combined | | | 42 | 4 | 0 | 292 | 7 | 0 | 0.04 | 0.01 | 0.76 | 4.4E-03 |
| rs4466688 | GWAS | T | G | 10 | 10 | 10 | 18 | 102 | 90 | 0.50 | 0.33 | 0.69 | 4.3E-03 |
| | Replication | | | 2 | 9 | 5 | 6 | 41 | 42 | 0.41 | 0.30 | 0.28 | 2.4E-01 |
| | Combined | | | 12 | 19 | 15 | 24 | 143 | 132 | 0.47 | 0.32 | 0.38 | 4.5E-03 |
| rs2494047 | GWAS | T | C | 11 | 9 | 10 | 98 | 93 | 19 | 0.48 | 0.31 | 0.50 | 4.4E-03 |
| | Replication | | | 6 | 7 | 3 | 44 | 39 | 6 | 0.41 | 0.29 | 0.73 | 2.0E-01 |
| | Combined | | | 17 | 16 | 13 | 142 | 132 | 25 | 0.46 | 0.30 | 0.69 | 3.2E-03 |
| rs7543435 | GWAS | A | G | 10 | 10 | 10 | 90 | 100 | 20 | 0.50 | 0.33 | 0.98 | 6.0E-03 |
| | Replication | | | 5 | 8 | 3 | 41 | 42 | 6 | 0.44 | 0.30 | 0.37 | 1.5E-01 |
| | Combined | | | 15 | 18 | 13 | 131 | 142 | 26 | 0.48 | 0.32 | 0.63 | 3.4E-03 |
| rs10494072 | GWAS | T | C | 17 | 7 | 6 | 137 | 69 | 4 | 0.32 | 0.18 | 0.87 | 7.3E-03 |
| | Replication | | | 9 | 7 | 0 | 63 | 25 | 1 | 0.22 | 0.15 | 0.21 | 3.4E-01 |
| | Combined | | | 26 | 14 | 6 | 200 | 94 | 5 | 0.28 | 0.17 | 0.66 | 9.0E-03 |
| rs4915063 | GWAS | A | G | 9 | 11 | 10 | 20 | 97 | 93 | 0.48 | 0.33 | 0.93 | 8.2E-03 |
| | Replication | | | 3 | 8 | 5 | 6 | 42 | 41 | 0.44 | 0.30 | 0.37 | 1.5E-01 |
| | Combined | | | 12 | 19 | 15 | 26 | 139 | 134 | 0.47 | 0.32 | 0.69 | 4.3E-03 |
| rs10494071 | GWAS | T | C | 3 | 11 | 16 | 39 | 110 | 61 | 0.28 | 0.45 | 0.64 | 8.7E-03 |
| | Replication | | | 1 | 5 | 10 | 17 | 42 | 30 | 0.22 | 0.43 | 0.51 | 4.0E-02 |
| | Combined | | | 4 | 16 | 26 | 56 | 152 | 91 | 0.26 | 0.44 | 0.98 | 8.4E-04 |
| rs4914950 | GWAS | T | C | 3 | 12 | 15 | 42 | 108 | 60 | 0.30 | 0.46 | 0.81 | 1.2E-02 |
| | Replication | | | 1 | 6 | 9 | 18 | 43 | 28 | 0.25 | 0.44 | 0.69 | 5.0E-02 |
| | Combined | | | 4 | 18 | 24 | 60 | 151 | 88 | 0.28 | 0.45 | 0.99 | 1.5E-03 |
| rs6693140 | GWAS | T | C | 15 | 11 | 4 | 137 | 66 | 7 | 0.32 | 0.19 | 0.76 | 2.5E-02 |
| | Replication | | | 9 | 7 | 0 | 55 | 33 | 1 | 0.22 | 0.20 | 0.05 | 9.0E-01 |
| | Combined | | | 24 | 18 | 4 | 192 | 99 | 8 | 0.28 | 0.19 | 0.43 | 6.4E-02 |
| rs1410406 | GWAS | A | G | 3 | 7 | 20 | 22 | 102 | 86 | 0.22 | 0.35 | 0.70 | 3.0E-02 |
| | Replication | | | 1 | 5 | 10 | 11 | 39 | 39 | 0.22 | 0.34 | 0.66 | 2.3E-01 |
| | Combined | | | 4 | 12 | 30 | 33 | 141 | 125 | 0.22 | 0.35 | 0.93 | 1.6E-02 |
| rs17019602 | GWAS | A | G | 16 | 9 | 5 | 128 | 76 | 6 | 0.32 | 0.21 | 0.73 | 3.4E-02 |
| | Replication | | | 8 | 8 | 0 | 60 | 28 | 1 | 0.25 | 0.17 | 0.11 | 2.6E-01 |
| | Combined | | | 24 | 17 | 5 | 188 | 104 | 7 | 0.29 | 0.20 | 0.29 | 2.7E-02 |
| rs11185141 | GWAS | T | C | 17 | 10 | 3 | 71 | 110 | 29 | 0.27 | 0.40 | 0.37 | 3.6E-02 |
| | Replication | | | 9 | 6 | 1 | 37 | 37 | 15 | 0.25 | 0.38 | 0.27 | 3.1E-01 |
| | Combined | | | 26 | 16 | 4 | 108 | 147 | 44 | 0.26 | 0.39 | 0.89 | 2.1E-02 |
| rs9804074 | GWAS | A | G | 1 | 7 | 22 | 1 | 35 | 174 | 0.15 | 0.09 | 0.88 | 3.9E-02 |
| | Replication | | | 0 | 4 | 12 | 2 | 13 | 74 | 0.13 | 0.10 | 0.30 | 7.4E-01 |
| | Combined | | | 1 | 11 | 34 | 3 | 48 | 248 | 0.14 | 0.09 | 0.65 | 1.1E-01 |
| rs12746044 | GWAS | A | G | 4 | 9 | 17 | 5 | 64 | 141 | 0.28 | 0.18 | 0.88 | 4.3E-02 |
| | Replication | | | 0 | 6 | 10 | 1 | 27 | 61 | 0.19 | 0.16 | 0.18 | 8.1E-01 |
| | Combined | | | 4 | 15 | 27 | 6 | 91 | 202 | 0.25 | 0.17 | 0.59 | 8.1E-02 |
| rs9803825 | GWAS | A | G | 5 | 8 | 17 | 5 | 74 | 131 | 0.30 | 0.20 | 0.75 | 4.4E-02 |
| | Replication | | | 0 | 8 | 8 | 1 | 28 | 60 | 0.25 | 0.17 | 0.11 | 2.6E-01 |
| | Combined | | | 5 | 16 | 25 | 6 | 102 | 191 | 0.28 | 0.19 | 0.29 | 3.2E-02 |
| rs12039907 | GWAS | A | G | 16 | 10 | 4 | 130 | 76 | 4 | 0.30 | 0.20 | 0.27 | 4.5E-02 |
| | Replication | | | 8 | 8 | 0 | 51 | 36 | 2 | 0.25 | 0.22 | 0.05 | 7.4E-01 |
| | Combined | | | 24 | 18 | 4 | 181 | 112 | 6 | 0.28 | 0.21 | 0.05 | 5.9E-02 |
| rs6583035 | GWAS | T | C | 20 | 9 | 1 | 169 | 39 | 2 | 0.18 | 0.10 | 0.98 | 4.6E-02 |
| | Replication | | | 13 | 3 | 0 | 68 | 20 | 1 | 0.09 | 0.12 | 0.65 | 6.4E-01 |
| | Combined | | | 33 | 12 | 1 | 237 | 59 | 3 | 0.15 | 0.11 | 0.78 | 2.2E-01 |