**Supplemental Table 3. Mutations detected by next-generation sequencing in the training cohort of 301 PV patients.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Patient ID | Gene | Nucleotide nomenclature | Protein consequence | VAF % | dbSNP rs |
| PV1 | JAK2exon14 | c.1849G>T | p.V617F | 46.8 | rs77375493 |
| PV2 | JAK2exon14 | c.1849G>T | p.V617F | 92.4 | rs77375493 |
| PV3 | JAK2exon14 | c.1849G>T | p.V617F | 57.1 | rs77375493 |
| PV4 | JAK2exon14DNMT3Aexon22TET2exon10 | c.1849G>Tc.2578T>Cc.4210C>T | p.V617Fp.W860Rp.R1404X | 63.53.742.8 | rs77375493rs373014701— |
| PV5 | JAK2exon14 | c.1849G>T | p.V617F | 21.9 | rs77375493 |
| PV6 | JAK2Exon14ASXL1Exon12 | c.1849G>Tc.3187C>T | p.V617Fp.Q1063X | 21.55 | rs77375493— |
| PV7 | JAK2exon14TET2exon6 | c.1849G>Tc.3732\_3733del | p.V617Fp.Y1245Lfs\*22 | 90.947.8 | rs77375493— |
| PV8 | JAK2exon14TET2exon3 | c.1849G>Tc.1954C>T | p.V617Fp.Q652X | 64.111.6 | rs77375493— |
| PV9 | JAK2exon14 | c.1849G>T | p.V617F | 34.6 | rs77375493 |
| PV10 | JAK2exon14 | c.1849G>T | p.V617F | 62.5 | rs77375493 |
| PV11 | JAK2exon14 | c.1849G>T | p.V617F | 35.7 | rs77375493 |
| PV12 | JAK2exon14DNMT3Aexon23 | c.1849G>Tc.2644C>T | p.V617Fp.R882C | 32.10.58 | rs77375493rs377577594 |
| PV13 | JAK2exon14DNMT3Aexon 23 | c.G1849Tc.G2645A | p.V617Fp.R882H | 84.4844.78 | rs77375493rs147001633 |
| PV14 | JAK2exon14ASXL1exon12ASXL1exon7 | c.1849G>Tc.4285\_4287delc.686C>T | p.V617Fp.S1429delp.P229L | 40.149.749.5 | rs77375493—rs576523117 |
| PV15 | JAK2exon14 | c.1849G>T | p.V617F | 35.3 | rs77375493 |
| PV16 | JAK2exon12BCORL1exon3 | c.1624\_1629delAATGAAc.2615T>G | p.N542\_E543delNEp.V872G | 45.799.7 | —rs750640150 |
| PV17 | JAK2exon14ASXL1exon12DNMT3Aexon19 | c.1849G>Tc.2757dupAc.2254T>A | p.V617Fp.P920Tfs\*4p.F752I | 44.62319 | rs77375493rs771822198rs776844126 |
| PV18 | JAK2exon14BCORexon4 | c.1849G>Tc.935\_937delAGC | p.V617Fp.Q312delQ | 49.444.9 | rs77375493rs3840969 |
| PV19 | JAK2exon14 | c.1849G>T | p.V617F | 83 | rs77375493 |
| PV20 | JAK2exon14BCORexon13ASXL1exon12 | c.1849G>Tc.4664G>Ac.1773C>G | p.V617Fp.R1555Hp.Y591\* | 59.548.311.6 | rs77375493rs367859441rs371369583 |
| PV21 | JAK2exon14 | c.G1849T | p.V617F | 76.17 | rs77375493 |
| PV22 | JAK2exon14BCORL1exon7ASXL1exon12 | c.1849G>Tc.4171G>Ac.1998\_2011del14 | p.V617Fp.G1391Rp.D667Lfs\*5 | 79.646.641.5 | rs77375493rs199973665— |
| PV23 | JAK2exon14NRASexon 2 | c.1849G>Tc.G35A | p.V617Fp.G12D | 95.7739.07 | rs77375493rs121913237 |
| PV24 | JAK2exon14 | c.1849G>T | p.V617F | 86.8 | rs77375493 |
| PV25 | JAK2exon14TP53exon6BRCA2exon11 | c.1849G>Tc.659A>Gc.2950dupG | p.V617Fp.Y220Cp.E984Gfs\*4 | 61.22.144.4 | rs77375493rs121912666— |
| PV26 | JAK2exon14 | c.1849G>T | p.V617F | 39.2 | rs77375493 |
| PV27 | JAK2exon14 | c.1849G>T | p.V617F | 43.9 | rs77375493 |
| PV28 | JAK2exon14 | c.1849G>T | p.V617F | 61.6 | rs77375493 |
| PV29 | JAK2exon14ASXL1exon12 | c.1849G>Tc.3098A>T | p.V617Fp.E1033V | 5951 | rs77375493rs192330235 |
| PV30 | JAK2exon14BCORexon12 | c.1849G>Tc.4567A>T | p.V617Fp.T1523S | 6538.7 | rs77375493— |
| PV31 | JAK2exon14ASXL1exon12 | c.1849G>Tc.2254delG | p.V617Fp.A752Lfs\*20 | 54.130.3 | rs77375493— |
| PV32 | JAK2Exon14DNMT3AExon15 | c.1849G>Tc.1792C>T | p.V617Fp.R598X | 16.239.3 | rs77375493rs568207978 |
| PV33 | JAK2Exon14 | c.1849G>T | p.V617F | 38.5 | rs77375493 |
| PV34 | JAK2exon14ASXL1exon12TET2exon6 | c.1849G>Tc.1772dupAc.3764dupA | p.V617Fp.Y591\*fs\*1p.Y1255\*fs\*1 | 46.647.446.7 | rs77375493rs762036456rs756805589 |
| PV35 | JAK2exon14TET2exon6DNMT3Aexon14 | c.1849G>Tc.3781C>Tc.1627G>T | p.V617Fp.R1261Cp.G543C | 25.21.141.1 | rs77375493—— |
| PV36 | JAK2exon14BCORL1exon3 | c.1849G>Tc.2669G>A | p.V617Fp.R890Q | 6.148.8 | rs77375493rs201843717 |
| PV37 | JAK2exon14DNMT3Aexon8 | c.1849G>Tc.867delC | p.V617Fp.G289fs | 86.542.9 | rs77375493— |
| PV38 | JAK2exon14DNMT3Aexon20BCORL1exon3 | c.1849G>Tc.2351\_2354dupc.2669G>A | p.V617Fp.A787Vfs\*12p.R890Q | 25.619.751.7 | rs77375493—rs201843717 |
| PV39 | JAK2exon14ASXL1exon12 | c.1849G>Tc.3098A>T | p.V617Fp.E1033V | 8.452.9 | rs77375493rs192330235 |
| PV40 | JAK2exon14 | c.1849G>T | p.V617F | 71.7 | rs77375493 |
| PV41 | JAK2exon14DNMT3Aexon14PDS5Bexon20 | c.1849G>Tc.1567G>Tc.2164dupC | p.V617Fp.E523\*p.R724Pfs\*16 | 81.61.645.7 | rs77375493—rs746601412 |
| PV42 | JAK2exon14TET2exon10 | c.1849G>Tc.4263C>G | p.V617Fp.Y1421\* | 88.546.4 | rs77375493— |
| PV43 | JAK2exon14DNMT3Aexon17 | c.1849G>Tc.2080C>T | p.V617Fp.H694Y | 72.81.8 | rs77375493— |
| PV44 | JAK2exon14TET2exon3DNMT3Aexon19 | c.1849G>Tc.2491delCc.2206C>T | p.V617Fp.Q831Rfs\*10p.R736C | 93.51312.9 | rs77375493—rs761934754 |
| PV45 | JAK2exon14 | c.1849G>T | p.V617F | 36.2 | rs77375493 |
| PV46 | JAK2exon14 | c.1849G>T | p.V617F | 86.4 | rs77375493 |
| PV47 | JAK2exon14RBBP6exon18JAK1exon6ASXL1exon13ASXL1exon13 | c.1849G>Tc.5214dupCc.599\_600delc.2879G>Ac.1927dupG | p.V617Fp.K1739Qfs\*4p.Y200Cfs\*27p.W960\*p.G646Wfs\*11 | 95.535.143.1833.3 | rs77375493———rs1085307856 |
| PV48 | JAK2exon14 | c.1849G>T | p.V617F | 82.2 | rs77375493 |
| PV49 | JAK2exon14BCORL1exon7 | c.1849G>Tc.4171G>A | p.V617Fp.G1391R | 49.2100 | rs77375493rs199973665 |
| PV50 | JAK2exon14GNB1exon5 | c.1849G>Tc.169A>G | p.V617Fp.K57E | 56.911.1 | rs77375493rs141326438 |
| PV51 | JAK2exon14 | c.1849G>T | p.V617F | 45.4 | rs77375493 |
| PV52 | JAK2exon14 | c.1849G>T | p.V617F | 39.9 | rs77375493 |
| PV53 | JAK2exon14 | c.1849G>T | p.V617F | 44.7 | rs77375493 |
| PV54 | JAK2exon14 | c.1849G>T | p.V617F | 53 | rs77375493 |
| PV55 | JAK2exon14TET2exon11 | c.1849G>Tc.5618T>C | p.V617Fp.I1873T | 37.335.5 | rs77375493rs116519313 |
| PV56 | JAK2exon14 | c.1849G>T | p.V617F | 87 | rs77375493 |
| PV57 | JAK2exon14 | c.1849G>T | p.V617F | 26.4 | rs77375493 |
| PV58 | NA |  |  |  |  |
| PV59 | JAK2exon14 | c.1849G>T | p.V617F | 35.1 | rs77375493 |
| PV60 | JAK2exon14 | c.1849G>T | p.V617F | 33.4 | rs77375493 |
| PV61 | JAK2exon14 | c.1849G>T | p.V617F | 52.9 | rs77375493 |
| PV62 | JAK2exon14 | c.1849G>T | p.V617F | 83 | rs77375493 |
| PV63 | JAK2exon14TET2exon6BCORexon4BCORL1exon7 | c.1849G>Tc.3781C>Tc.347C>Tc.4171G>A | p.V617Fp.R1261Cp.S116Lp.G1391R | 58.52.351.254.9 | rs77375493——rs199973665 |
| PV64 | JAK2exon14 | c.1849G>T | p.V617F | 70.4 | rs77375493 |
| PV65 | JAK2exon14DNMT3Aexon23 | c.1849G>Tc.2675C>G | p.V617Fp.S892\* | 79.11.9 | rs77375493— |
| PV66 | JAK2exon14TET2exon11 | c.1849G>Tc.5095C>T | p.V617Fp.Q1699\* | 39.62.4 | rs77375493— |
| PV67 | JAK2exon14TET2exon3 | c.1849G>Tc.1796delA | p.V617Fp.M600\* | 80.82.4 | rs77375493— |
| PV68 | JAK2exon14 | c.1849G>T | p.V617F | 63.9 | rs77375493 |
| PV69 | JAK2exon14 | c.1849G>T | p.V617F | 13.1 | rs77375493 |
| PV70 | JAK2exon14 | c.1849G>T | p.V617F | 18 | rs77375493 |
| PV71 | JAK2Exon14 | c.1849G>T | p.V617F | 16.3 | rs77375493 |
| PV72 | JAK2exon14 | c.1849G>T | p.V617F | 69 | rs77375493 |
| PV73 | JAK2Exon14 | c.1849G>T | p.V617F | 20.9 | rs77375493 |
| PV74 | JAK2exon14 | c.1849G>T | p.V617F | 51.1 | rs77375493 |
| PV75 | JAK2exon14 | c.1849G>T | p.V617F | 43.4 | rs77375493 |
| PV76 | JAK2exon14DNMT3Aexon19ASXL1exon12 | c.1849G>Tc.2185C>Gc.2090\_2108del | p.V617Fp.R729Gp.P698Gfs\*21 | 8.631.7 | rs77375493rs200018028— |
| PV77 | JAK2exon14 | c.1849G>T | p.V617F | 56.4 | rs77375493 |
| PV78 | JAK2Exon14 | c.1849G>T | p.V617F | 22 | rs77375493 |
| PV79 | JAK2Exon14 | c.1849G>T | p.V617F | 29.8 | rs77375493 |
| PV80 | JAK2exon14 | c.1849G>T | p.V617F | 80.7 | rs77375493 |
| PV81 | JAK2exon14 | c.1849G>T | p.V617F | 62.5 | rs77375493 |
| PV82 | JAK2exon14PRF1exon3 | c.1849G>Tc.1283G>A | p.V617Fp.W428\* | 76.848.8 | rs77375493— |
| PV83 | JAK2exon12ASXL1exon13TET2exon3SF3B1exon15TET2exon6 | c.1625\_1630delc.1927dupGc.2706\_2709delinsTTc.2218G>Ac.3632G>A | p.E543\_D544delp.G646Wfs\*11p.R902Sfs\*21p.G740Rp.C1211Y | 19.52.77.51.92 | —rs1085307856——— |
| PV84 | JAK2exon14 | c.1849G>T | p.V617F | 68.2 | rs77375493 |
| PV85 | JAK2exon14 | c.1849G>T | p.V617F | 42.7 | rs77375493 |
| PV86 | JAK2exon14BCORL1exon2 | c.1849G>Tc.148G>A | p.V617Fp.E50K | 18.2100 | rs77375493— |
| PV87 | JAK2exon14DNMT3Aexon18 | c.1849G>Tc.2099C>T | p.V617Fp.P700L | 45.93.5 | rs77375493— |
| PV88 | JAK2exon14 | c.1849G>T | p.V617F | 25.9 | rs77375493 |
| PV89 | JAK2exon14 | c.1849G>T | p.V617F | 50.82 | rs77375493 |
| PV90 | JAK2exon14 | c.1849G>T | p.V617F | 72 | rs77375493 |
| PV91 | JAK2exon14 | c.1849G>T | p.V617F | 61.2 | rs77375493 |
| PV92 | JAK2exon14 | c.1849G>T | p.V617F | 69.7 | rs77375493 |
| PV93 | NA |  |  |  |  |
| PV94 | JAK2exon14ASXL1exon12 | c.1849G>Tc.1945G>T | p.V617Fp.G649X | 36.819.2 | rs77375493— |
| PV95 | JAK2exon14BCORexon4 | c.1849G>Tc.935\_937delAGC | p.V617Fp.Q312delQ | 31.9100 | rs77375493rs3840969 |
| PV96 | JAK2exon14TET2exon9 | c.1849G>Tc.4075C>T | p.V617Fp.R1359C | 372.6 | rs77375493— |
| PV97 | JAK2exon14 | c.1849G>T | p.V617F | 74.2 | rs77375493 |
| PV98 | JAK2exon14 | c.1849G>T | p.V617F | 50.1 | rs77375493 |
| PV99 | JAK2exon14 | c.1849G>T | p.V617F | 74 | rs77375493 |
| PV100 | JAK2exon14 | c.1849G>T | p.V617F | 74.2 | rs77375493 |
| PV101 | NA |  |  |  |  |
| PV102 | JAK2exon14 | c.1849G>T | p.V617F | 42.3 | rs77375493 |
| PV103 | JAK2exon14DNMT3Aexon23 | c.1849G>Tc.2644C>T | p.V617Fp.R882C | 35.23.4 | rs77375493rs377577594 |
| PV104 | JAK2exon14 | c.1849G>T | p.V617F | 81.6 | rs77375493 |
| PV105 | JAK2exon14ASXL1exon12SF3B1exon15 | c.1849G>Tc.1900\_1922del23c.2098A>G | p.V617Fp.E635Rfs\*15p.K700E | 19.830.41.8 | rs77375493rs766433101rs559063155 |
| PV106 | JAK2exon14 | c.1849G>T | p.V617F | 46.2 | rs77375493 |
| PV107 | JAK2Exon14 | c.1849G>T | p.V617F | 52 | rs77375493 |
| PV108 | JAK2exon14 | c.1849G>T | p.V617F | 92.5 | rs77375493 |
| PV109 | JAK2exon14TET2exon10 | c.1849G>Tc.4302delT | p.V617Fp.Q1435Rfs\*13 | 89.645.8 | rs77375493— |
| PV110 | JAK2exon14ASXL1exon13TET2exon9TET2exon11 | c.1849G>Tc.1749G>Ac.4075C>Tc.5148dupT | p.V617Fp.W583\*p.R1359Cp.H1717Sfs\*12 | 27.641.141.96.2 | rs77375493——— |
| PV111 | JAK2exon14TET2exon6TET2exon9 | c.1849G>Tc.3619G>Tc.4133G>A | p.V617Fp.E1207\*p.C1378Y | 6943.440.5 | rs77375493—rs765853421 |
| PV112 | JAK2exon14 | c.1849G>T | p.V617F | 49.4 | rs77375493 |
| PV113 | JAK2exon14BCORL1exon3 | c.1849G>Tc.3332C>T | p.V617Fp.T1111M | 8.5100 | rs77375493rs144988023 |
| PV114 | JAK2exon14BCORexon4 | c.1849G>Tc.1448C>T | p.V617Fp.P483L | 31.348.2 | rs77375493rs587778096 |
| PV115 | JAK2exon14TET2exon8ETV6exon4 | c.1849G>Tc.3992delCc.403\_404insT | p.V617Fp.T1331Ifs\*32p.H135Lfs\*19 | 48.922.11.8 | rs77375493—— |
| PV116 | JAK2exon12 | c.1624\_1629delAATGAA | p.N542\_E543delNE | 10 | — |
| PV117 | NA |  |  |  |  |
| PV118 | JAK2exon14CUX1exon22 | c.1849G>Tc.3535C>T | p.V617Fp.R1179X | 85.538.2 | rs77375493— |
| PV119 | JAK2exon14 | c.1849G>T | p.V617F | 47.2 | rs77375493 |
| PV120 | JAK2exon12DNMT3Aexon21 | c.1624\_1629delc.2477A>G | p.N542\_E543delNEp.K826R | 27.228.3 | —— |
| PV121 | JAK2exon14 | c.1849G>T | p.V617F | 42.2 | rs77375493 |
| PV122 | JAK2exon14 | c.1849G>T | p.V617F | 86 | rs77375493 |
| PV123 | JAK2exon14 | c.1849G>T | p.V617F | 75.6 | rs77375493 |
| PV124 | JAK2exon14 | c.1849G>T | p.V617F | 60.3 | rs77375493 |
| PV125 | JAK2exon14 | c.1849G>T | p.V617F | 82.7 | rs77375493 |
| PV126 | JAK2exon14DNMT3Aexon19 | c.1849G>Tc.2230A>T | p.V617Fp.K744X | 17.43.4 | rs77375493— |
| PV127 | JAK2exon14JAK2exon12 | c.1849G>Tc.1615\_1616delinsTT | p.V617Fp.K539L | 1.130.8 | rs77375493rs121912473 |
| PV128 | JAK2exon14 | c.G1849T | p.V617F | 14.5 | rs77375493 |
| PV129 | JAK2exon14 | c.1849G>T | p.V617F | 53.5 | rs77375493 |
| PV130 | JAK2exon14 | c.1849G>T | p.V617F | 24.8 | rs77375493 |
| PV131 | JAK2exon14JAK3exon4TET2exon3 | c.1849G>Tc.394C>Ac.2601T>G | p.V617Fp.P132Tp.Y867\* | 230.493.1 | rs77375493rs3212723rs145844118 |
| PV132 | JAK2exon14 | c.1849G>T | p.V617F | 43.3 | rs77375493 |
| PV133 | JAK2exon14 | c.1849G>T | p.V617F | 61.2 | rs77375493 |
| PV134 | JAK2exon14 | c.1849G>T | p.V617F | 91.5 | rs77375493 |
| PV135 | JAK2exon14CALRexon9 | c.1849G>Tc.1191\_1199del9 | p.V617Fp.E398\_D400delEED | 76.952.5 | rs77375493— |
| PV136 | JAK2exon14TET2exon11 | c.1849G>Tc.5650A>G | p.V617Fp.T1884A | 26.224.9 | rs77375493rs76428136 |
| PV137 | JAK2exon14 | c.1849G>T | p.V617F | 72.4 | rs77375493 |
| PV138 | JAK2exon14 | c.1849G>T | p.V617F | 47.8 | rs77375493 |
| PV139 | JAK2exon14 | c.1849G>T | p.V617F | 19.9 | rs77375493 |
| PV140 | JAK2exon14 | c.1849G>T | p.V617F | 72.1 | rs77375493 |
| PV141 | JAK2exon14 | c.G1849T | p.V617F | 17.41 | rs77375493 |
| PV142 | JAK2exon14 | c.1849G>T | p.V617F | 34.1 | rs77375493 |
| PV143 | JAK2exon14 | c.1849G>T | p.V617F | 29.5 | rs77375493 |
| PV144 | JAK2exon14GNASexon8 | c.1849G>Tc.2531G>A | p.V617Fp.R844H | 23.72.3 | rs77375493rs121913495 |
| PV145 | NA |  |  |  |  |
| PV146 | JAK2exon14 | c.1849G>T | p.V617F | 23.6 | rs77375493 |
| PV147 | JAK2exon14JAK2exon12BCORL1exon7SRSF2exon1 | c.1849G>Tc.1614\_1616delinsATTc.4171G>Ac.284C>T | p.V617Fp.H538\_K539delinsQLp.G1391Rp.P95L | 2.512.249.27.9 | rs77375493—rs199973665— |
| PV148 | JAK2exon14 | c.1849G>T | p.V617F | 29 | rs77375493 |
| PV149 | JAK2exon14 | c.1849G>T | p.V617F | 17.3 | rs77375493 |
| PV150 | JAK2exon14 | c.1849G>T | p.V617F | 23.6 | rs77375493 |
| PV151 | JAK2exon14 | c.1849G>T | p.V617F | 47.2 | rs77375493 |
| PV152 | JAK2exon14 | c.G1849T | p.V617F | 85.12 | rs77375493 |
| PV153 | JAK2exon14 | c.1849G>T | p.V617F | 28.1 | rs77375493 |
| PV154 | JAK2exon14 | c.1849G>T | p.V617F | 51.9 | rs77375493 |
| PV155 | JAK2exon14TET2exon3DNMT3Aexon18CBLexon8 | c.1849G>Tc.1381C>Tc.2173+1G>Ac.1223G>C | p.V617Fp.Q461\*—p.W408S | 58.66.738.12.3 | rs77375493—rs763716866— |
| PV156 | NA |  |  |  |  |
| PV157 | JAK2exon14 | c.1849G>T | p.V617F | 83 | rs77375493 |
| PV158 | JAK2exon14 | c.1849G>T | p.V617F | 70.5 | rs77375493 |
| PV159 | JAK2exon14 | c.1849G>T | p.V617F | 51.8 | rs77375493 |
| PV160 | JAK2exon14TET2exon3 | c.1849G>Tc.949C>T | p.V617Fp.Q317X | 65.737.1 | rs77375493— |
| PV161 | JAK2exon14 | c.G1849T | p.V617F | 57.14 | rs77375493 |
| PV162 | JAK2exon14 | c.1849G>T | p.V617F | 89.5 | rs77375493 |
| PV163 | JAK2exon14 | c.1849G>T | p.V617F | 61.7 | rs77375493 |
| PV164 | NA |  |  |  |  |
| PV165 | JAK2exon14 | c.1849G>T | p.V617F | 52.7 | rs77375493 |
| PV166 | JAK2exon14 | c.1849G>T | p.V617F | 39.5 | rs77375493 |
| PV167 | JAK2exon14 | c.1849G>T | p.V617F | 14.2 | rs77375493 |
| PV168 | NA |  |  |  |  |
| PV169 | JAK2exon14 | c.1849G>T | p.V617F | 77 | rs77375493 |
| PV170 | JAK2exon12 | c.1624\_1629delAATGAA | p.N542\_E543delNE | 11.1 | — |
| PV171 | JAK2exon14 | c.1849G>T | p.V617F | 59.5 | rs77375493 |
| PV172 | JAK2exon14 | c.1849G>T | p.V617F | 63.2 | rs77375493 |
| PV173 | JAK2exon14 | c.1849G>T | p.V617F | 44.9 | rs77375493 |
| PV174 | JAK2exon14 | c.1849G>T | p.V617F | 26.6 | rs77375493 |
| PV175 | JAK2exon14 | c.1849G>T | p.V617F | 46.51 | rs77375493 |
| PV176 | JAK2exon14 | c.1849G>T | p.V617F | 73.5 | rs77375493 |
| PV177 | JAK2exon14 | c.1849G>T | p.V617F | 48.5 | rs77375493 |
| PV178 | JAK2exon14 | c.1849G>T | p.V617F | 32.2 | rs77375493 |
| PV179 | JAK2exon14BCORexon14 | c.1849G>Tc.4815delT | p.V617Fp.F1605Lfs\*35 | 60.325.8 | rs77375493— |
| PV180 | JAK2exon14TET2Intron4 | c.1849G>Tc.3501-2A>G | p.V617F— | 70.332.3 | rs77375493— |
| PV181 | JAK2exon14 | c.1849G>T | p.V617F | 66.4 | rs77375493 |
| PV182 | JAK2exon14 | c.1849G>T | p.V617F | 47 | rs77375493 |
| PV183 | JAK2exon14 | c.1849G>T | p.V617F | 74.4 | rs77375493 |
| PV184 | JAK2exon14 | c.1849G>T | p.V617F | 16.03 | rs77375493 |
| PV185 | JAK2exon14 | c.1849G>T | p.V617F | 18.7 | rs77375493 |
| PV186 | JAK2exon14 | c.1849G>T | p.V617F | 69.7 | rs77375493 |
| PV187 | JAK2exon14ASXL1exon12 | c.1849G>Tc.2110G>A | p.V617Fp.G704R | 22.92 | rs77375493rs151317625 |
| PV188 | JAK2exon14 | c.1849G>T | p.V617F | 89.1 | rs77375493 |
| PV189 | JAK2exon14 | c.1849G>T | p.V617F | 86.9 | rs77375493 |
| PV190 | JAK2exon14 | c.1849G>T | p.V617F | 44.3 | rs77375493 |
| PV191 | JAK2exon14 | c.1849G>T | p.V617F | 80.1 | rs77375493 |
| PV192 | JAK2exon14BCORexon4 | c.1849G>Tc.215T>C | p.V617Fp.M72T | 84.351.9 | rs77375493— |
| PV193 | JAK2exon14 | c.1849G>T | p.V617F | 24 | rs77375493 |
| PV194 | JAK2exon14TET2exon3TET2exon7 | c.1849G>Tc.3252\_3259delc.3882C>G | p.V617Fp.Q1084Hfs\*17p.Y1294X | 38.342.73.2 | rs77375493rs755531331— |
| PV195 | JAK2exon14CDKN2Aexon2 | c.1849G>Tc.340C>T | p.V617Fp.P114S | 52.30.43 | rs77375493rs104894104 |
| PV196 | JAK2exon14 | c.1849G>T | p.V617F | 15 | rs77375493 |
| PV197 | JAK2exon14SRP72exon1 | c.1849G>Tc.25dupG | p.V617Fp.V9Gfs\*9 | 38.447.2 | rs77375493rs763130641 |
| PV198 | JAK2exon14 | c.1849G>T | p.V617F | 66 | rs77375493 |
| PV199 | JAK2exon14 | c.1849G>T | p.V617F | 49.3 | rs77375493 |
| PV200 | JAK2exon14BCORexon4 | c.1849G>Tc.2633T>C | p.V617Fp.V878A | 40.753.1 | rs77375493— |
| PV201 | NA |  |  |  |  |
| PV202 | JAK2exon14 | c.1849G>T | p.V617F | 49.3 | rs77375493 |
| PV203 | JAK2exon14TET2exon10 | c.1849G>Tc.4393C>T | p.V617Fp.R1465X | 25.41.7 | rs77375493— |
| PV204 | JAK2exon14 | c.1849G>T | p.V617F | 73.8 | rs77375493 |
| PV205 | JAK2exon14 | c.1849G>T | p.V617F | 57.8 | rs77375493 |
| PV206 | JAK2exon14 | c.1849G>T | p.V617F | 31.36 | rs77375493 |
| PV207 | JAK2exon14 | c.1849G>T | p.V617F | 14.9 | rs77375493 |
| PV208 | JAK2exon14SF3B1exon15 | c.1849G>Tc.2098A>G | p.V617Fp.K700E | 724.4 | rs77375493rs559063155 |
| PV209 | NA |  |  |  |  |
| PV210 | JAK2exon14 | c.1849G>T | p.V617F | 67.5 | rs77375493 |
| PV211 | JAK2exon14 | c.1849G>T | p.V617F | 38.3 | rs77375493 |
| PV212 | JAK2exon12 | c.1615\_1616delinsTT | p.K539L | 29.5 | rs121912473 |
| PV213 | JAK2exon14ASXL1exon11 | c.1849G>Tc.1210C>T | p.V617Fp.R404X | 26.627.5 | rs77375493rs373145711 |
| PV214 | JAK2exon14 | c.1849G>T | p.V617F | 77.5 | rs77375493 |
| PV215 | JAK2exon14DNMT3AIntron8 | c.1849G>Tc.1015-2A>G | p.V617F— | 75.542.3 | rs77375493— |
| PV216 | JAK2exon14 | c.1849G>T | p.V617F | 25.6 | rs77375493 |
| PV217 | JAK2exon14 | c.1849G>T | p.V617F | 91.8 | rs77375493 |
| PV218 | JAK2exon14 | c.1849G>T | p.V617F | 33.4 | rs77375493 |
| PV219 | JAK2exon14 | c.1849G>T | p.V617F | 28 | rs77375493 |
| PV220 | JAK2exon14 | c.1849G>T | p.V617F | 32.3 | rs77375493 |
| PV221 | JAK2exon14 | c.1849G>T | p.V617F | 54.6 | rs77375493 |
| PV222 | JAK2exon14 | c.1849G>T | p.V617F | 54.8 | rs77375493 |
| PV223 | JAK2exon14 | c.1849G>T | p.V617F | 63.3 | rs77375493 |
| PV224 | JAK2exon14 | c.1849G>T | p.V617F | 40.7 | rs77375493 |
| PV225 | JAK2exon14BCORL1exon3CBLexon8 | c.1849G>Tc.233G>Tc.1142G>A | p.V617Fp.G78Vp.C381Y | 37.6482.5 | rs77375493—rs768898787 |
| PV226 | JAK2exon14BCORexon15IDH1exon4 | c.1849G>Tc.5138G>Cc.395G>A | p.V617Fp.S1713Tp.R132H | 2.41001.21 | rs77375493rs201002764rs121913500 |
| PV227 | JAK2exon14ASXL1exon1 | c.1849G>Tc.56T>G | p.V617Fp.L19R | 54.51.8 | rs77375493— |
| PV228 | JAK2exon14 | c.1849G>T | p.V617F | 65.4 | rs77375493 |
| PV229 | JAK2exon14 | c.1849G>T | p.V617F | 52.8 | rs77375493 |
| PV230 | JAK2exon14 | c.1849G>T | p.V617F | 48.5 | rs77375493 |
| PV231 | JAK2exon14CHD8exon14 | c.1849G>Tc.2904\_2905insAC | p.V617Fp.L969Tfs\*17 | 74.99.4 | rs77375493— |
| PV232 | JAK2exon12 | c.1613\_1616delinsT | p.H538\_K539delinsL | 20 | rs77375493 |
| PV233 | JAK2exon14 | c.1849G>T | p.V617F | 14.7 | rs77375493 |
| PV234 | JAK2Exon14 | c.1849G>T | p.V617F | 57.5 | rs77375493 |
| PV235 | JAK2exon14 | c.1849G>T | p.V617F | 94.4 | rs77375493 |
| PV236 | NA |  |  |  |  |
| PV237 | JAK2Exon14DNMT3AExon18 | c.1849G>Tc.2146G>A | p.V617Fp.V716I | — | rs77375493— |
| PV238 | JAK2exon14 | c.G1849T | p.V617F | 28.2 | rs77375493 |
| PV239 | JAK2Exon14BCORExon4TP53Exon8 | c.1849G>Tc.2930dupTc.868C>T | p.V617Fp.K978Qfs\*40p.R290C | 22.331.850 | rs77375493—— |
| PV240 | JAK2Exon14ASXL1Exon12TET2Exon3 | c.1849G>Tc.1900\_1922del23c.2422delG | p.V617Fp.E635Rfs\*15p.E808Kfs\*5 | 30.38.725.2 | rs77375493rs766433101— |
| PV241 | JAK2exon14 | c.1849G>T | p.V617F | 12.2 | rs77375493 |
| PV242 | JAK2Exon14 | c.1849G>T | p.V617F | 14.5 | rs77375493 |
| PV243 | JAK2exon14 | c.1849G>T | p.V617F | 49.8 | rs77375493 |
| PV244 | JAK2exon14TET2exon3 | c.1849G>Tc.1245delT | p.V617Fp.P416Lfs\*11 | 87.418.4 | rs77375493— |
| PV245 | JAK2exon14ASXL1exon12TP53exon7EZH2exon16 | c.1849G>Tc.2791G>Tc.733G>Ac.1890delG | p.V617Fp.E931\*p.G245Sp.I631Ffs\*44 | 40.518.30.6714.2 | rs77375493—rs28934575— |
| PV246 | JAK2exon14TET2exon3 | c.1849G>Tc.1493delT | p.V617Fp.P499Hfs\*34 | 94.748.3 | rs77375493— |
| PV247 | JAK2exon14 | c.1849G>T | p.V617F | 86.3 | rs77375493 |
| PV248 | JAK2exon14 | c.1849G>T | p.V617F | 72.2 | rs77375493 |
| PV249 | JAK2exon14 | c.1849G>T | p.V617F | 35.2 | rs77375493 |
| PV250 | JAK2exon12TET2exon3 | c.1622\_1627delc.2158C>T | p.R541\_E543delinsKp.Q720\* | 20.524.5 | —— |
| PV251 | JAK2exon14 | c.1849G>T | p.V617F | 56.4 | rs77375493 |
| PV252 | JAK2exon14ASXL1exon12DNMT3Aexon19KMT2Cexon18 | c.1849G>Tc.1927dupGc.2245C>Tc.2880T>A | p.V617Fp.G646Wfs\*11p.R749Cp.C960\* | 61.98.23.66.4 | rs77375493rs756958159rs754613602rs754055527 |
| PV253 | JAK2exon14 | c.1849G>T | p.V617F | 51.4 | rs77375493 |
| PV254 | JAK2exon14 | c.1849G>T | p.V617F | 16 | rs77375493 |
| PV255 | NA |  |  |  |  |
| PV256 | JAK2exon14 | c.1849G>T | p.V617F | 16.7 | rs77375493 |
| PV257 | JAK2exon14TET2exon3 | c.1849G>Tc.2495dupT | p.V617Fp.S833Ffs\*13 | 68.520.2 | rs77375493— |
| PV258 | JAK2exon14 | c.1849G>T | p.V617F | 7.4 | rs77375493 |
| PV259 | JAK2exon14 | c.1849G>T | p.V617F | 79.4 | rs77375493 |
| PV260 | JAK2exon14 | c.1849G>T | p.V617F | 29.9 | rs77375493 |
| PV261 | JAK2exon14 | c.1849G>T | p.V617F | 31.5 | rs77375493 |
| PV262 | JAK2exon14ASXL1exon12 | c.1849G>Tc.1754dupT | p.V617Fp.K586fs\*1 | 88.743 | rs77375493— |
| PV263 | JAK2exon14TP53exon5 | c.1849G>Tc.537T>G | p.V617Fp.H179Q | 41.771.4 | rs77375493— |
| PV264 | JAK2exon14 | c.1849G>T | p.V617F | 92.5 | rs77375493 |
| PV265 | JAK2exon14 | c.1849G>T | p.V617F | 95.9 | rs77375493 |
| PV266 | JAK2exon14SF3B1exon15TP53exon5 | c.1849G>Tc.2098A>Gc.524G>A | p.V617Fp.K700Ep.R175H | 78.843.46.9 | rs77375493rs559063155rs28934578 |
| PV267 | JAK2exon14 | c.1849G>T | p.V617F | 84.8 | rs77375493 |
| PV268 | JAK2exon14TET2exon4 | c.1849G>Tc.3412C>T | p.V617Fp.Q1138X | 86.745.7 | rs77375493— |
| PV269 | JAK2exon14 | c.1849G>T | p.V617F | 63 | rs77375493 |
| PV270 | JAK2exon14 | c.1849G>T | p.V617F | 22.9 | rs77375493 |
| PV271 | JAK2exon14 | c.1849G>T | p.V617F | 7.3 | rs77375493 |
| PV272 | JAK2exon14 | c.1849G>T | p.V617F | 33.1 | rs77375493 |
| PV273 | JAK2exon14 | c.1849G>T | p.V617F | 93.3 | rs77375493 |
| PV274 | JAK2exon14ASXL1exon12ASXL1exon12 | c.1849G>Tc.2077C>Tc.2332C>T | p.V617Fp.R693Xp.Q778X | 84.53.72.3 | rs77375493rs373221034— |
| PV275 | JAK2exon14TP53exon6DNMT3Aexon23 | c.1849G>Tc.659A>Gc.2645G>A | p.V617Fp.Y220Cp.R882H | 58.338.741.3 | rs77375493rs121912666rs147001633 |
| PV276 | JAK2exon14BCORexon4 | c.1849G>Tc.1448C>T | p.V617Fp.P483L | 40.2100 | rs77375493rs587778096 |
| PV277 | JAK2exon14 | c.1849G>T | p.V617F | 54.4 | rs77375493 |
| PV278 | JAK2exon14 | c.1849G>T | p.V617F | 89.4 | rs77375493 |
| PV279 | JAK2exon14 | c.1849G>T | p.V617F | 94.5 | rs77375493 |
| PV280 | JAK2exon14 | c.1849G>T | p.V617F | 36.5 | rs77375493 |
| PV281 | JAK2exon14TET2exon3 | c.1849G>Tc.679G>T | p.V617Fp.E227X | 17.98.1 | rs77375493— |
| PV282 | JAK2exon12 | c.1611\_1616delinsCAT | p.H538\_K539delinsI | 82.2 | — |
| PV283 | JAK2exon14 | c.1849G>T | p.V617F | 53.6 | rs77375493 |
| PV284 | JAK2exon14ASXL1exon12ASXL1exon12SETBP1exon4ATMexon41 | c.1849G>Tc.1904\_1905delAGc.3612C>Gc.2602G>Ac.6067G>A | p.V617Fp.E635Gfs\*22p.C1204Wp.D868Np.G2023R | 96.864.718.448.447.2 | rs77375493—rs201397030rs267607042rs11212587 |
| PV285 | JAK2exon14 | c.1849G>T | p.V617F | 68.1 | rs77375493 |
| PV286 | JAK2exon14RUNX1exon4 | c.1849G>Tc.253C>A | p.V617Fp.H85N | 66.553.4 | rs77375493rs121912500 |
| PV287 | JAK2exon14 | c.1849G>T | p.V617F | 88.5 | rs77375493 |
| PV288 | JAK2exon14 | c.1849G>T | p.V617F | 93.6 | rs77375493 |
| PV289 | JAK2exon14TET2exon3TET2exon3 | c.1849G>Tc.727C>Tc.2839C>T | p.V617Fp.Q243Xp.Q947X | 52.62.33.4 | rs77375493—— |
| PV290 | JAK2exon14SETBP1exon4 | c.1849G>Tc.2608G>A | p.V617Fp.G870S | 83.937.5 | rs77375493rs267607040 |
| PV291 | JAK2exon14 | c.G1849T | p.V617F | 94.08 | rs77375493 |
| PV292 | JAK2exon14DNMT3Aexon23 | c.1849G>Tc.2644C>T | p.V617Fp.R882C | 7.40.68 | rs77375493rs377577594 |
| PV293 | JAK2exon14 | c.1849G>T | p.V617F | 58.5 | rs77375493 |
| PV294 | JAK2exon14TET2exon3 | c.1849G>Tc.3195delG | p.V617Fp.T1066Lfs\*16 | 89.944.3 | rs77375493— |
| PV295 | NA |  |  |  |  |
| PV296 | JAK2exon14 | c.1849G>T | p.V617F | 53.4 | rs77375493 |
| PV297 | JAK2exon14 | c.1849G>T | p.V617F | 94.8 | rs77375493 |
| PV298 | JAK2exon14 | c.1849G>T | p.V617F | 89 | rs77375493 |
| PV299 | JAK2exon14TET2exon3 | c.1849G>Tc.3343delC | p.V617Fp.P1115Lfs\*2 | 87.840.5 | rs77375493rs867474555 |
| PV300 | JAK2exon14 | c.1849G>T | p.V617F | 83 | rs77375493 |
| PV301 | JAK2exon14 | c.1849G>T | p.V617F | 59.4 | rs77375493 |

NA represents patients without relevant mutations. VAF, variant allele frequency.