

**Supplementary Table 2A. Association results for 106 JAZF1 SNPs in 10,286 prostate cancer patients and 9,135 controls**

| SNP        | comment <sup>1</sup> | location | A1 | A2 | A1_cases | A1_contr | $\chi^2$ _stat | P-value <sup>2</sup> | het OR for A1 | het OR 95% CI_low | het OR 95% CI_high | hom OR for A1 | hom OR 95% CI_low | hom OR 95% CI_high | adjusted for rs10486567, p <sup>3</sup> |
|------------|----------------------|----------|----|----|----------|----------|----------------|----------------------|---------------|-------------------|--------------------|---------------|-------------------|--------------------|---|
| rs10486567 | A                    | 27943088 | A  | G  | 0.21     | 0.24     | 46.55          | 7.79E-11             | 0.84          | 0.79              | 0.89               | 0.73          | 0.64              | 0.84               | NA                                      |
| rs10807843 | A                    | 27958915 | C  | T  | 0.20     | 0.22     | 43.88          | 2.96E-10             | 0.84          | 0.79              | 0.89               | 0.74          | 0.64              | 0.85               | 0.47                                    |
| rs38504    | A                    | 27982859 | T  | C  | 0.19     | 0.21     | 26.54          | 1.73E-06             | 0.86          | 0.80              | 0.91               | 0.85          | 0.73              | 0.98               | 0.36                                    |
| rs12671866 | A                    | 27972513 | A  | C  | 0.20     | 0.23     | 25.51          | 2.89E-06             | 0.86          | 0.81              | 0.91               | 0.85          | 0.74              | 0.98               | 0.83                                    |
| rs38513    | A                    | 27994752 | G  | A  | 0.20     | 0.22     | 22.85          | 1.09E-05             | 0.87          | 0.81              | 0.92               | 0.86          | 0.75              | 0.98               | 0.51                                    |
| rs11760913 | A                    | 27954107 | T  | C  | 0.45     | 0.47     | 20.57          | 3.41E-05             | 0.91          | 0.85              | 0.97               | 0.83          | 0.76              | 0.90               | 0.28                                    |
| rs10951188 | A                    | 27953298 | A  | G  | 0.41     | 0.39     | 20.31          | 3.88E-05             | 1.11          | 1.04              | 1.18               | 1.21          | 1.11              | 1.31               | 0.04                                    |
| rs6950127  | A                    | 28094935 | T  | C  | 0.05     | 0.05     | 17.84          | 1.34E-04             | 0.91          | 0.82              | 1.00               | 0.31          | 0.16              | 0.59               | 0.04                                    |
| rs38519    | A                    | 28004411 | T  | C  | 0.40     | 0.42     | 17.53          | 1.56E-04             | 0.94          | 0.88              | 1.00               | 0.83          | 0.77              | 0.91               | 0.27                                    |
| rs10239787 | A                    | 27936678 | T  | C  | 0.35     | 0.33     | 15.68          | 3.94E-04             | 1.10          | 1.03              | 1.17               | 1.18          | 1.07              | 1.30               | 0.17                                    |
| rs6956423  | A                    | 27999467 | T  | C  | 0.45     | 0.47     | 14.76          | 6.23E-04             | 0.91          | 0.85              | 0.97               | 0.86          | 0.79              | 0.93               | 0.18                                    |
| rs4722745  | A                    | 27939118 | T  | C  | 0.35     | 0.33     | 14.64          | 6.62E-04             | 1.09          | 1.03              | 1.16               | 1.18          | 1.07              | 1.29               | 0.21                                    |
| rs6977730  | A                    | 28100505 | G  | A  | 0.04     | 0.04     | 14.31          | 7.81E-04             | 0.93          | 0.83              | 1.03               | 0.31          | 0.16              | 0.62               | 0.22                                    |
| rs740126   | A                    | 28004898 | T  | C  | 0.43     | 0.41     | 13.74          | 1.04E-03             | 1.07          | 1.01              | 1.14               | 1.17          | 1.08              | 1.28               | 0.15                                    |
| rs4722748  | A                    | 27970041 | C  | T  | 0.36     | 0.38     | 13.43          | 1.21E-03             | 0.90          | 0.85              | 0.96               | 0.89          | 0.81              | 0.97               | 0.77                                    |
| rs7783206  | A                    | 28077586 | A  | G  | 0.04     | 0.05     | 12.11          | 2.35E-03             | 0.85          | 0.77              | 0.95               | 0.57          | 0.30              | 1.07               | 0.02                                    |
| rs7798247  | A                    | 28073372 | A  | C  | 0.04     | 0.05     | 12.08          | 2.38E-03             | 0.86          | 0.77              | 0.95               | 0.53          | 0.28              | 1.01               | 0.02                                    |
| rs17156085 | A                    | 27963095 | C  | T  | 0.46     | 0.48     | 11.18          | 3.74E-03             | 0.89          | 0.84              | 0.96               | 0.91          | 0.84              | 0.98               | 0.82                                    |
| rs6462064  | A                    | 28069555 | A  | G  | 0.04     | 0.05     | 11.10          | 3.88E-03             | 0.86          | 0.77              | 0.96               | 0.53          | 0.28              | 1.01               | 0.05                                    |
| rs6948511  | A                    | 27945240 | C  | T  | 0.09     | 0.08     | 11.09          | 3.91E-03             | 1.07          | 0.99              | 1.16               | 1.63          | 1.17              | 2.27               | 0.02                                    |
| rs6966465  | A                    | 27980128 | T  | C  | 0.43     | 0.42     | 10.41          | 5.50E-03             | 1.06          | 1.00              | 1.14               | 1.15          | 1.05              | 1.25               | 0.34                                    |
| rs6462065  | A                    | 28094354 | G  | A  | 0.01     | 0.01     | 9.59           | 8.25E-03             | 0.81          | 0.68              | 0.98               | 0.26          | 0.07              | 0.96               | 0.16                                    |
| rs17156218 | A                    | 28029261 | A  | G  | 0.02     | 0.02     | 8.86           | 1.19E-02             | 0.79          | 0.68              | 0.93               | 0.73          | 0.28              | 1.94               | 0.05                                    |
| rs17695685 | A                    | 27965681 | G  | A  | 0.45     | 0.43     | 8.34           | 1.55E-02             | 1.06          | 0.99              | 1.13               | 1.13          | 1.04              | 1.23               | 0.28                                    |
| rs10268254 | A                    | 28085595 | C  | T  | 0.19     | 0.19     | 8.25           | 1.61E-02             | 1.00          | 0.94              | 1.07               | 0.80          | 0.69              | 0.93               | 0.07                                    |
| rs10237946 | A                    | 27976033 | G  | C  | 0.11     | 0.10     | 8.17           | 1.69E-02             | 1.10          | 1.02              | 1.18               | 1.22          | 0.93              | 1.61               | 0.04                                    |
| rs6943061  | A                    | 28039225 | A  | T  | 0.03     | 0.03     | 6.41           | 4.06E-02             | 0.93          | 0.82              | 1.05               | 0.35          | 0.14              | 0.92               | 0.13                                    |
| rs11520706 | A                    | 28169273 | C  | T  | 0.07     | 0.08     | 5.85           | 5.38E-02             | 0.92          | 0.85              | 1.00               | 0.69          | 0.43              | 1.12               | 0.06                                    |
| rs2158622  | A                    | 28081778 | T  | C  | 0.11     | 0.12     | 4.86           | 8.82E-02             | 0.92          | 0.86              | 0.99               | 0.98          | 0.75              | 1.28               | 0.25                                    |
| rs10276381 | A                    | 28156646 | T  | C  | 0.10     | 0.11     | 4.57           | 1.02E-01             | 0.92          | 0.86              | 0.99               | 0.94          | 0.72              | 1.24               | 0.13                                    |
| rs2893312  | A                    | 28136928 | C  | T  | 0.21     | 0.22     | 4.29           | 1.17E-01             | 0.94          | 0.88              | 1.00               | 0.97          | 0.85              | 1.12               | 0.28                                    |
| rs7785730  | A                    | 28062724 | G  | A  | 0.22     | 0.23     | 4.29           | 1.17E-01             | 0.94          | 0.89              | 1.00               | 0.94          | 0.82              | 1.07               | 0.19                                    |
| rs17156314 | A                    | 28067063 | G  | C  | 0.22     | 0.23     | 3.99           | 1.36E-01             | 0.94          | 0.89              | 1.00               | 0.93          | 0.82              | 1.07               | 0.20                                    |

|            |   |          |   |   |      |      |      |          |      |      |      |      |      |      |      |
|------------|---|----------|---|---|------|------|------|----------|------|------|------|------|------|------|------|
| rs530649   | A | 28168955 | G | A | 0.14 | 0.13 | 3.91 | 1.42E-01 | 1.04 | 0.97 | 1.11 | 1.20 | 0.97 | 1.47 | 0.14 |
| rs17156100 | A | 27974909 | G | C | 0.10 | 0.10 | 3.82 | 1.48E-01 | 1.03 | 0.95 | 1.11 | 1.30 | 0.99 | 1.71 | 0.40 |
| rs17156143 | A | 28011811 | C | T | 0.02 | 0.02 | 3.53 | 1.71E-01 | 0.92 | 0.80 | 1.06 | 0.36 | 0.09 | 1.41 | 0.48 |
| rs849136   | A | 28141482 | A | G | 0.29 | 0.28 | 3.53 | 1.71E-01 | 1.06 | 1.00 | 1.12 | 1.03 | 0.92 | 1.15 | 0.20 |
| rs3735568  | A | 28182179 | A | G | 0.05 | 0.05 | 3.18 | 2.04E-01 | 0.92 | 0.83 | 1.01 | 1.08 | 0.64 | 1.82 | 0.53 |
| rs11495981 | A | 28143826 | T | C | 0.20 | 0.21 | 3.14 | 2.08E-01 | 0.95 | 0.89 | 1.01 | 0.96 | 0.83 | 1.11 | 0.22 |
| rs881850   | A | 28119200 | G | A | 0.38 | 0.38 | 3.10 | 2.12E-01 | 0.95 | 0.90 | 1.01 | 0.94 | 0.86 | 1.03 | 0.39 |
| rs1985152  | A | 28133059 | C | T | 0.38 | 0.38 | 3.04 | 2.19E-01 | 0.95 | 0.89 | 1.01 | 0.94 | 0.86 | 1.03 | 0.42 |
| rs11760530 | A | 28097941 | T | C | 0.15 | 0.14 | 3.00 | 2.24E-01 | 1.04 | 0.97 | 1.11 | 1.16 | 0.95 | 1.42 | 0.12 |
| rs1109483  | A | 28111556 | A | G | 0.37 | 0.38 | 3.00 | 2.24E-01 | 0.96 | 0.90 | 1.02 | 0.94 | 0.86 | 1.02 | 0.36 |
| rs550448   | A | 28195567 | G | A | 0.14 | 0.13 | 2.71 | 2.58E-01 | 1.04 | 0.97 | 1.11 | 1.16 | 0.94 | 1.43 | 0.24 |
| rs4722756  | A | 28121347 | A | G | 0.36 | 0.37 | 2.66 | 2.64E-01 | 0.95 | 0.90 | 1.01 | 0.95 | 0.87 | 1.04 | 0.42 |
| rs11763181 | A | 27951583 | T | G | 0.08 | 0.08 | 2.60 | 2.73E-01 | 1.05 | 0.97 | 1.14 | 0.83 | 0.57 | 1.20 | 0.93 |
| rs957764   | A | 27967851 | G | A | 0.09 | 0.09 | 2.26 | 3.24E-01 | 1.06 | 0.98 | 1.15 | 1.06 | 0.77 | 1.45 | 0.93 |
| rs6962289  | A | 28127904 | C | A | 0.37 | 0.37 | 2.20 | 3.33E-01 | 0.96 | 0.91 | 1.02 | 0.94 | 0.86 | 1.03 | 0.40 |
| rs508347   | A | 28179349 | T | C | 0.30 | 0.30 | 2.10 | 3.50E-01 | 1.04 | 0.98 | 1.11 | 1.01 | 0.91 | 1.12 | 0.22 |
| rs4722753  | A | 28073454 | C | G | 0.48 | 0.47 | 1.80 | 4.06E-01 | 1.02 | 0.96 | 1.09 | 1.06 | 0.97 | 1.15 | 0.12 |
| rs6958010  | A | 28105164 | T | G | 0.23 | 0.24 | 1.70 | 4.27E-01 | 0.97 | 0.91 | 1.03 | 0.94 | 0.83 | 1.07 | 0.41 |
| rs1708299  | A | 28156471 | T | C | 0.30 | 0.30 | 1.49 | 4.76E-01 | 1.04 | 0.98 | 1.10 | 1.02 | 0.91 | 1.13 | 0.37 |
| rs6945134  | A | 28006441 | G | A | 0.15 | 0.15 | 1.45 | 4.84E-01 | 1.01 | 0.94 | 1.07 | 1.12 | 0.93 | 1.35 | 0.89 |
| rs10486576 | A | 28085668 | C | T | 0.13 | 0.12 | 1.38 | 5.01E-01 | 1.01 | 0.94 | 1.09 | 1.14 | 0.91 | 1.43 | 0.18 |
| rs10480067 | A | 28031223 | C | T | 0.36 | 0.37 | 1.20 | 5.49E-01 | 0.98 | 0.92 | 1.04 | 0.95 | 0.87 | 1.04 | 0.80 |
| rs4470907  | A | 28061829 | G | A | 0.36 | 0.36 | 1.20 | 5.50E-01 | 0.98 | 0.92 | 1.04 | 0.95 | 0.87 | 1.05 | 0.83 |
| rs17623849 | A | 28018167 | A | G | 0.08 | 0.08 | 1.10 | 5.76E-01 | 1.04 | 0.96 | 1.13 | 0.91 | 0.65 | 1.28 | 0.64 |
| rs38523    | A | 28006322 | C | T | 0.39 | 0.38 | 1.08 | 5.84E-01 | 1.03 | 0.96 | 1.09 | 1.04 | 0.95 | 1.14 | 0.26 |
| rs849140   | A | 28150227 | T | C | 0.40 | 0.40 | 1.07 | 5.87E-01 | 1.03 | 0.96 | 1.09 | 0.99 | 0.91 | 1.08 | 0.83 |
| rs1708302  | A | 28165202 | A | G | 0.49 | 0.49 | 1.02 | 6.00E-01 | 1.04 | 0.97 | 1.11 | 1.03 | 0.95 | 1.11 | 0.93 |
| rs2158623  | A | 28110015 | G | T | 0.26 | 0.26 | 1.02 | 6.01E-01 | 0.97 | 0.92 | 1.03 | 1.01 | 0.90 | 1.14 | 0.72 |
| rs4722766  | A | 28202333 | G | C | 0.10 | 0.11 | 0.84 | 6.57E-01 | 0.97 | 0.90 | 1.04 | 1.06 | 0.81 | 1.38 | 0.70 |
| rs849142   | A | 28152416 | G | A | 0.50 | 0.50 | 0.84 | 6.57E-01 | 1.03 | 0.96 | 1.11 | 1.01 | 0.93 | 1.10 | 0.90 |
| rs10951189 | A | 27987880 | G | A | 0.21 | 0.22 | 0.81 | 6.68E-01 | 1.00 | 0.94 | 1.06 | 0.94 | 0.82 | 1.08 | 0.55 |
| rs4722752  | A | 28036836 | C | T | 0.17 | 0.18 | 0.80 | 6.72E-01 | 0.97 | 0.91 | 1.04 | 1.00 | 0.85 | 1.17 | 0.75 |
| rs10273628 | A | 28025498 | G | C | 0.17 | 0.18 | 0.74 | 6.90E-01 | 0.97 | 0.91 | 1.04 | 0.98 | 0.83 | 1.16 | 0.82 |
| rs1024522  | A | 28021265 | G | A | 0.18 | 0.18 | 0.70 | 7.05E-01 | 0.97 | 0.91 | 1.04 | 0.99 | 0.84 | 1.17 | 0.78 |
| rs6971086  | A | 28104718 | G | A | 0.26 | 0.26 | 0.63 | 7.30E-01 | 1.00 | 0.94 | 1.06 | 1.04 | 0.93 | 1.17 | 0.72 |
| rs2214717  | A | 28034862 | A | T | 0.09 | 0.09 | 0.61 | 7.36E-01 | 0.98 | 0.91 | 1.06 | 0.92 | 0.69 | 1.23 | 0.99 |
| rs4400283  | A | 28008888 | C | T | 0.23 | 0.23 | 0.60 | 7.41E-01 | 1.01 | 0.95 | 1.07 | 1.05 | 0.92 | 1.20 | 0.55 |
| rs17156401 | A | 28118620 | G | T | 0.03 | 0.03 | 0.56 | 7.57E-01 | 0.97 | 0.85 | 1.10 | 1.16 | 0.69 | 1.96 | 0.78 |
| rs7800817  | A | 28211202 | C | A | 0.11 | 0.11 | 0.50 | 7.80E-01 | 0.98 | 0.91 | 1.05 | 1.03 | 0.80 | 1.33 | 0.87 |
| rs10486570 | A | 28000641 | G | A | 0.09 | 0.09 | 0.48 | 7.87E-01 | 1.03 | 0.95 | 1.11 | 1.00 | 0.75 | 1.34 | 0.76 |



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|-----------|---|----------|
| rs7801863 | X | 27963896 |
| rs849139  | X | 28145921 |

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comment<sup>1</sup>: A- included in analysis; L-low allele frequency in cases and controls (<2.5%), not analyzed; X - SNP failed or low genotyping rate, <90%.

p-value<sup>2</sup>: For additive logistic regression model adjusted for study and significant principal component per study.

adjusted for rs10486567 p-value<sup>3</sup>: For additive logistic regression model adjusted for rs10486567, study and significant principal component per study.