

Supplemental Table 1. Serum PSA values of healthy control and high risk subjects.

| HEALTHY SUBJECTS | | PSA VALUE |
|-------------------------|-----------|------------------|
| Number | ID | ng/ml |
| 1 | C-001 | 0.84 |
| 2 | C-002 | 1.43 |
| 3 | C-003 | 6.34 |
| 4 | C-004 | 1.19 |
| 5 | C-005 | 3.1 |
| 6 | C-006 | 2.22 |
| 7 | C-007 | 2.3 |
| 8 | C-008 | 1.19 |
| 9 | C-009 | 2.22 |
| 10 | C-010 | 1.19 |
| 11 | C-011 | 5.71 |
| 12 | C-012 | 1.35 |
| 13 | C-013 | 2.14 |
| 14 | C-014 | 2.93 |
| 15 | C-015 | 1.4 |
| 16 | C-016 | 2.69 |
| 17 | C-017 | 3.97 |
| 18 | C-018 | 4.68 |
| 19 | C-019 | 2.3 |
| 20 | C-020 | 2.77 |

Range 0.84 to 6.34 ng/ml; Average 2.598 ± 1.53 ng/ml

| HIGH-RISK SUBJECTS | | PSA VALUE |
|---------------------------|-----------|------------------|
| Number | ID | ng/ml |
| 1 | HR-001 | 9.76 |
| 2 | HR-002 | 21.27 |
| 3 | HR-003 | 20.71 |
| 4 | HR-004 | 17.77 |
| 5 | HR-005 | 13.09 |
| 6 | HR-006 | 34.44 |
| 7 | HR-007 | 15.63 |
| 8 | HR-008 | 27.46 |
| 9 | HR-009 | 14.76 |
| 10 | HR-010 | 13.73 |
| 11 | HR-011 | 8.65 |
| 12 | HR-012 | 15.0 |
| 13 | HR-013 | 17.54 |
| 14 | HR-014 | 26.34 |
| 15 | HR-015 | 9.84 |
| 16 | HR-016 | 7.32 |
| 17 | HR-017 | 13.33 |
| 18 | HR-018 | 15.23 |
| 19 | HR-019 | 28.89 |
| 20 | HR-020 | 15.55 |

Range 7.32 to 34.44 ng/ml; Average 17.315 ± 7.03 ng/ml
Control *versus* High-risk *P*-value < 0.0001