Table S3: Threshold determination for overexpression of prostate cell subtype genes in patients’ liquid biopsies. Gene overexpression in patients (right column) was defined as expression greater than the threshold set for each gene at 2.58 standard deviations (SD) above the mean expression value in blood RNA from 40 healthy controls (99.5 % confidence interval), with the exception of CD44 where only results in older male controls were used to set the threshold, as justified in Results.

| Gene | Controls (n=40; except CD44 n=15) | Patients (n=40) |
|------|----------------------------------|----------------|
|      | Mean  | SD       | Threshold | n > threshold |
| KLK3 | 0      | 0        | 0         | 16            |
| ARV7 | 0      | 0        | 0         | 8             |
| FOLH1| 0      | 0        | 0         | 15            |
| AR   | 0.000223  | 0.000118 | 0.000528 | 2             |
| SYP  | 0.000343  | 0.000161 | 0.000758 | 3             |
| ENO2 | 0.014000  | 0.004419 | 0.025401 | 0             |
| VEGFA| 0.003626  | 0.001792 | 0.008249 | 7             |
| NCAM1| 0.002541  | 0.002125 | 0.008024 | 0             |
| ALDH1A1| 0.049786 | 0.022269 | 0.107240 | 7             |
| CD44 | 0.003074  | 0.001497 | 0.006936 | 4             |
| EZH2 | 0.010889  | 0.003047 | 0.018750 | 3             |
| NANOG| 0.001368  | 0.000867 | 0.003605 | 12            |
| POU5F1| 0.018323 | 0.006723 | 0.035670 | 12            |
| SOX2 | 0.015123  | 0.006005 | 0.030615 | 9             |