

# Supplementary Figure S1

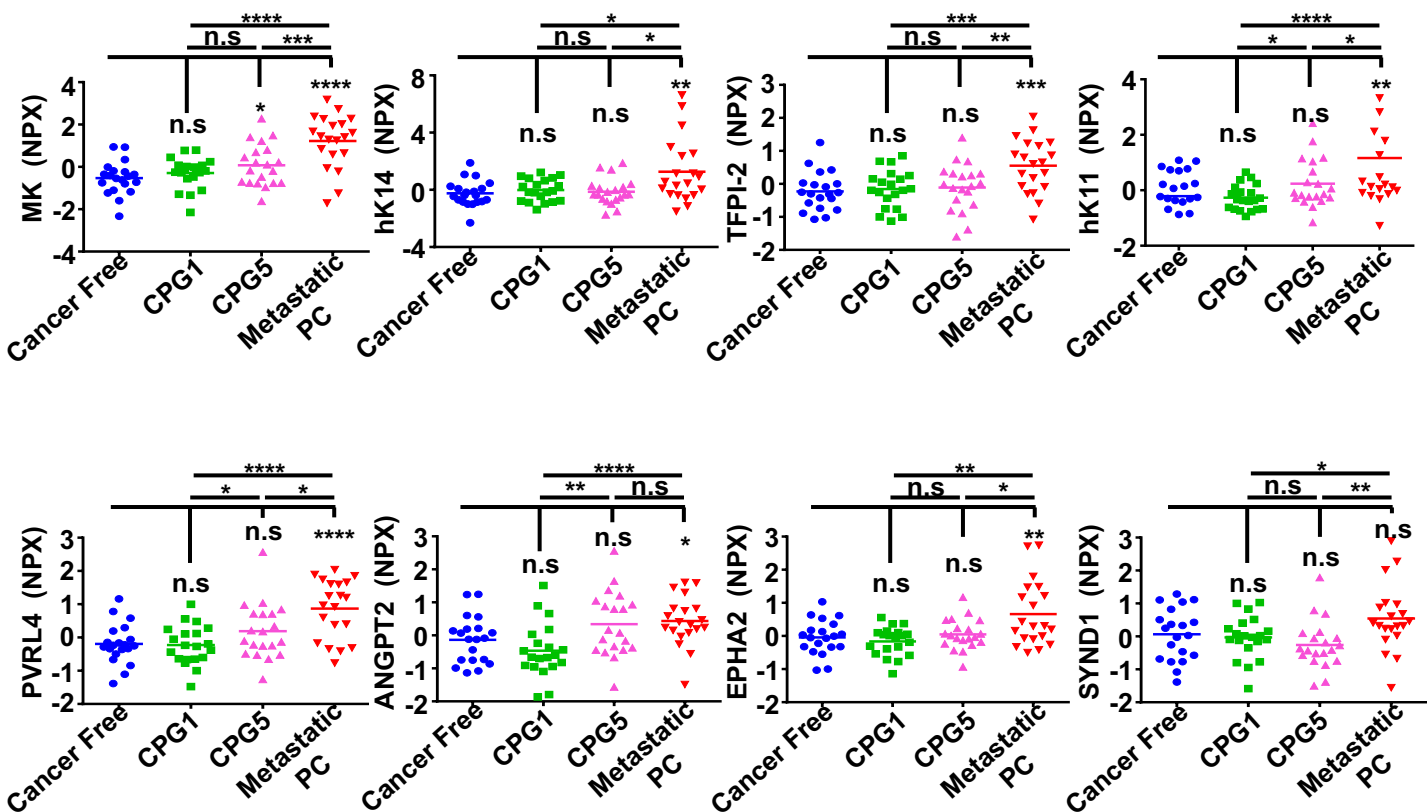
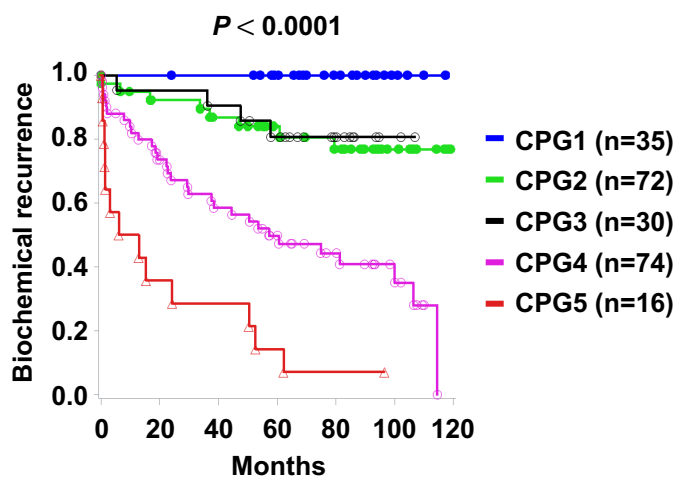


Figure S1. Candidate serum-based biomarkers for metastatic PC. Normalized protein levels for MK, PVRL4, EPHA2, TFPI-2, hK11, SYND1, ANGPT2, and hK14 is shown.

## Supplementary Figure S2



**Figure S2. Outcome in reassigned CPGs from Stanford cohort.** The Stanford cohort samples were assigned to appropriate CPGs by Cambridge Prognostic Group calculator. Biochemical recurrence status of CPGs was plotted.

**Supplementary Table S1. Criteria of the Cambridge Prognostic Groups for discovering novel blood-based biomarkers for early detection of poor prognosis prostate cancer**

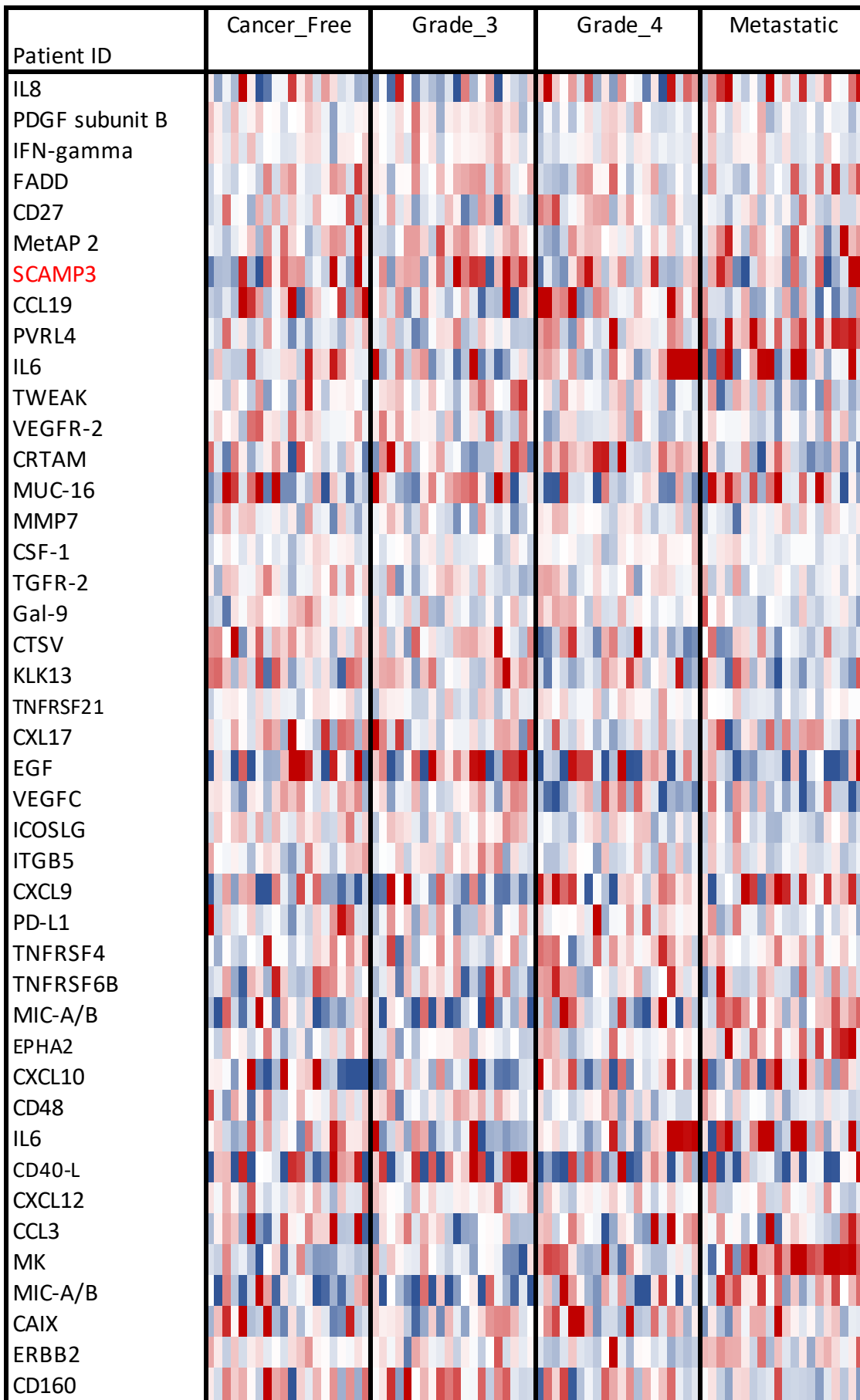
| <b>Group</b>     | <b>Criteria</b>  | <b>Survival</b>      |
|------------------|--|----------------------|
| Cancer Free      | Absence of prostate cancer (systemic and image guided biopsy)  |                      |
| CPG1             | Gleason score 6 (Grade Group 1) AND PSA < 10 ng/ml AND Stages T1–T2  | 97% 10-year survival |
| CPG5             | Any one of these criteria:<br>1. Gleason score 8 (Grade Group 4) + PSA > 20 ng/ml;<br>2. Gleason score 8 (Grade Group 4) + Stage T3;<br>3. Gleason score 9–10 (Grade Group 5);<br>4. Stage T4. | 50% 10-year survival |
| Metastasis Group | With metastatic disease at diagnosis   |                      |

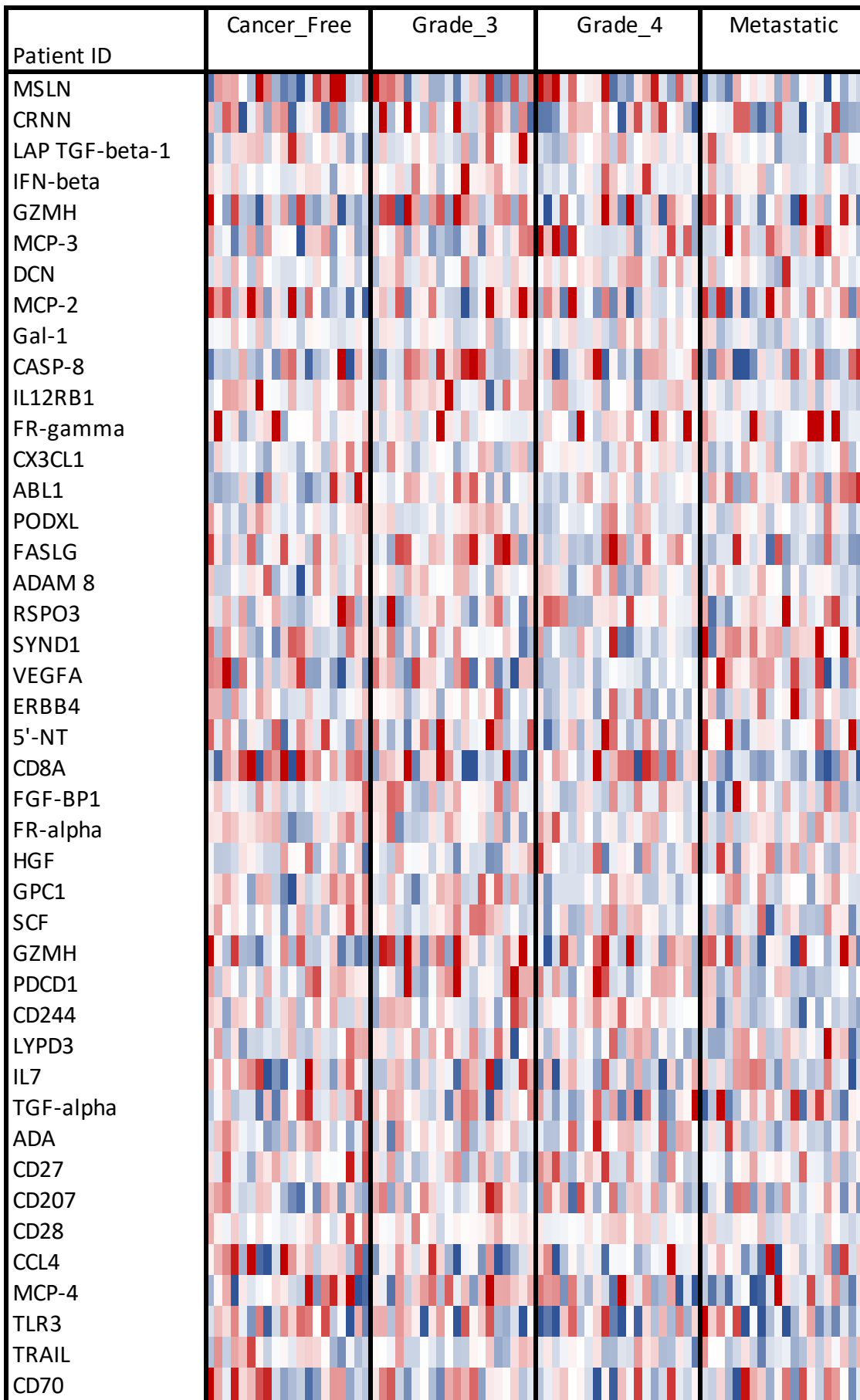
**Supplementary Table S2. Summary of Olink biomarker panels**

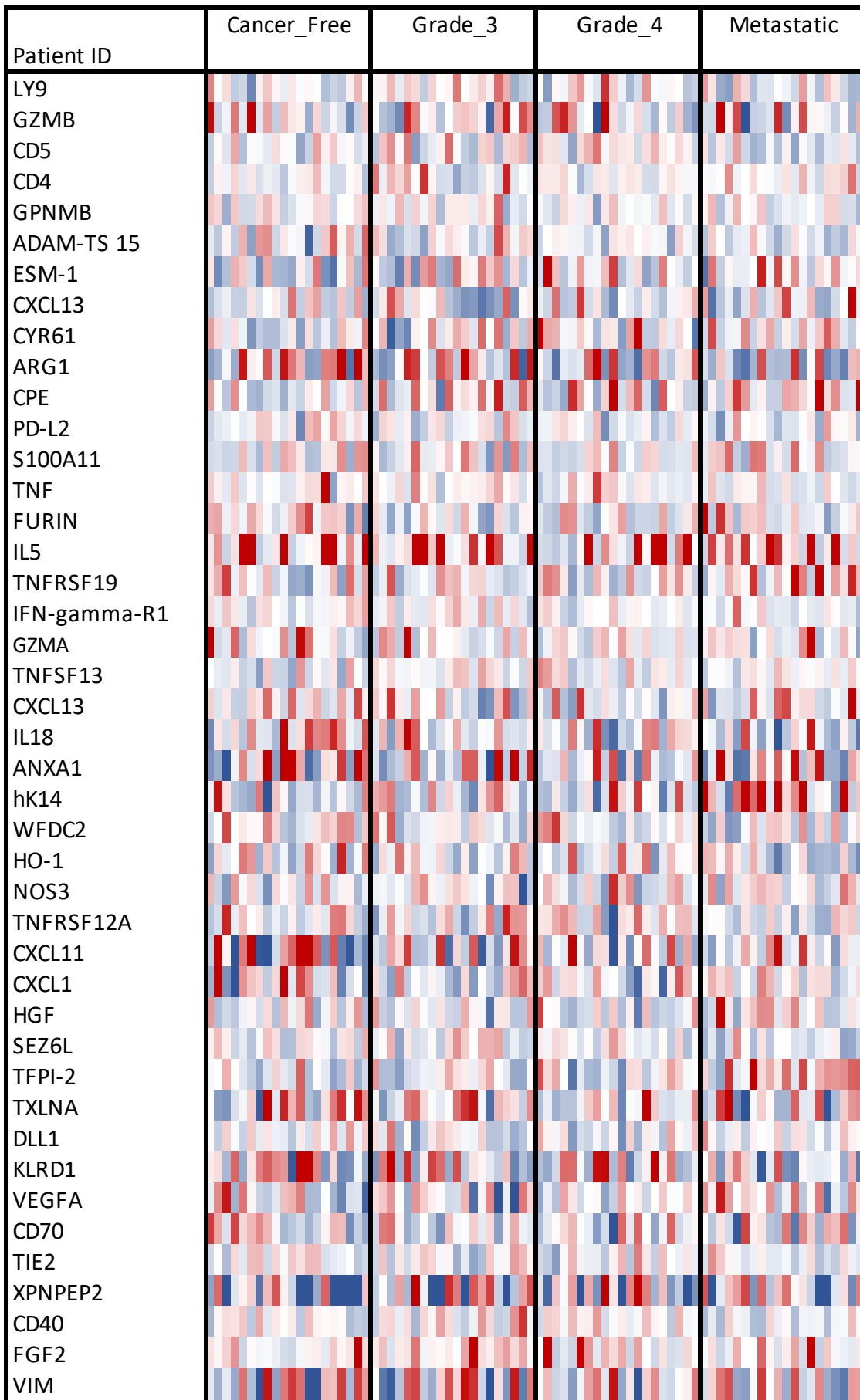
| Panel                 | Biomarkers        |            |           |          |           |
|-----------------------|-------------------|------------|-----------|----------|-----------|
| Immuno-Oncology Panel | ADA               | CASP-8     | IL-18     | MCP-3    | CD40-L    |
|                       | ADGRG1            | FasL       | IL-2      | MCP-4    | CD28      |
|                       | ANGPT1            | FGF2       | IL-33     | MUC-16   | TRAIL     |
|                       | TIE2              | CX3CL1     | IL-4      | NCR1     | TWEAK     |
|                       | ANGPT2            | Gal-1      | IL5       | CD244    | TNF       |
|                       | ARG1              | Gal-9      | IL6       | KLRD1    | TNFSF14   |
|                       | CCL17             | GZMA       | IL-7      | NOS3     | TNFRSF12A |
|                       | CCL19             | GZMB       | IL-8      | PGF      | TNFRSF21  |
|                       | CCL20             | GZMH       | KIR3DL1   | PDGF-B   | TNFRSF4   |
|                       | CCL23             | HO-1       | LAP TGFb1 | PTN      | TNFRSF9   |
|                       | CCL3              | HGF        | LAG3      | EGF      | VEGF-A    |
|                       | CCL4              | ICOSLG     | LAMP3     | PD-L1    | VEGFR-2   |
|                       | CXCL1             | IFN-gamma  | CSF-1     | PD-L2)   | CD40      |
|                       | CXCL10            | IL-1 alpha | MMP-12    | PDCD1    | CD70      |
|                       | CXCL11            | IL10       | MMP-7     | CXCL12   | CD83      |
|                       | CXCL13            | IL-12      | MIC-A/B   | CD4      | CRTAM     |
|                       | CXCL5             | IL12RB1    | MCP-1     | CD5      | DCN       |
|                       | CXCL9             | IL-13      | MCP-2     | CD8A     | CD27      |
|                       | CAIX              | IL15       |           |          |           |
|                       | Oncology Panel II | 5'-NT      | ADAM8     | IFN-γ-R1 | CYR61     |
| ADAM-TS 15            |                   | ESM-1      | IL6       | S100A11  | TGF-alpha |
| TXLNA                 |                   | EPHA2      | hK11      | S100A4   | GPNMB     |
| AREG                  |                   | FasL       | KLK13     | RET      | TNFSF13   |
| ANXA1                 |                   | FADD       | hK14      | RSPO3    | TNFRSF19  |
| CD207                 |                   | FCRLB      | hK8       | HER2     | TNFRSF4   |
| CXCL13                |                   | FGF-BP1    | LYPD3     | HER3     | TNFRSF6B  |
| CAIX                  |                   | FR-alpha   | MIA       | HER4     | ABL1      |
| CPE                   |                   | FR-gamma   | MSLN      | SCAMP3   | LYN       |
| CEA                   |                   | FUR        | MetAP 2   | SEZ6L    | VEGF-A    |
| CEACAM1               |                   | Gal-1      | MIC-A/B   | SPARC    | VEGFR-2   |
| CTSV                  |                   | GPC1       | MK        | SCF      | VEGFR-3   |
| CD160                 |                   | GZMB       | MAD h5    | SYND1    | CXCL17    |
| CD27                  |                   | GZMH       | MUC-16    | TCL1A    | VIM       |
| CD48                  |                   | HGF        | PVRL4     | LY9      | WFDC2     |
| CD70                  |                   | ICOSLG     | PPY       | TGFR-2   | WIF-1     |
| CRNN                  |                   | IGF1R      | PODXL     | TFPI-2   | WISP-1    |
| CDKN1A                |                   | ITGAV      | EGF       | TRAIL    | XPNPEP2   |
| DLL1                  |                   | ITGB5      |           |          |           |

**Supplementary Table S3**

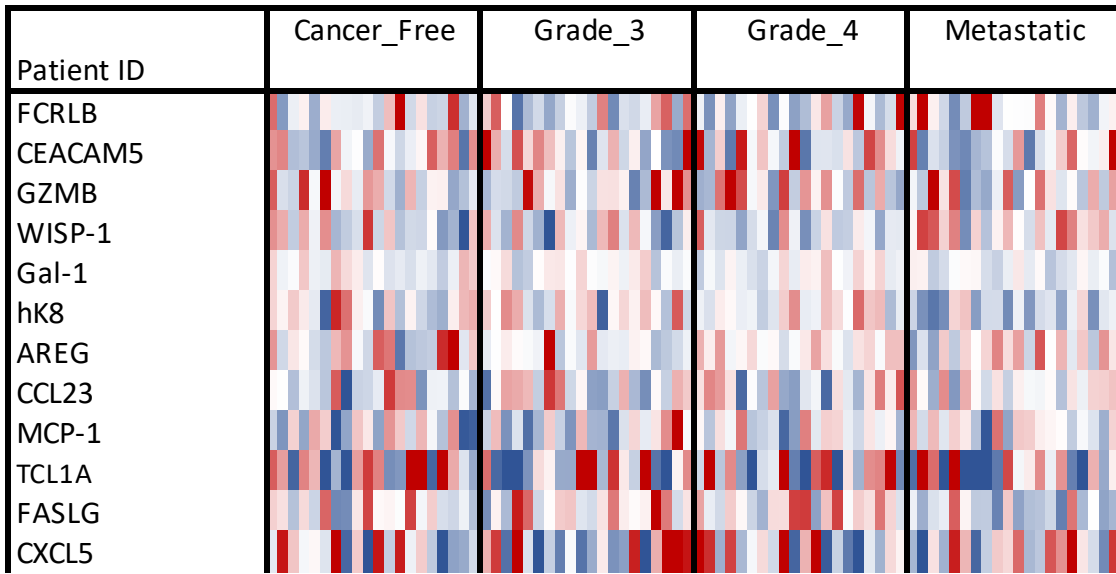
| Patient ID    | Cancer_Free | Grade_3 | Grade_4 | Metastatic |
|---------------|-------------|---------|---------|------------|
| PTN           |             |         |         |            |
| IL12          |             |         |         |            |
| PGF           |             |         |         |            |
| WIF-1         |             |         |         |            |
| VEGFR-2       |             |         |         |            |
| ANGPT2        |             |         |         |            |
| SPARC         |             |         |         |            |
| ANG-1         |             |         |         |            |
| ADGRG1        |             |         |         |            |
| CEACAM1       |             |         |         |            |
| CDKN1A        |             |         |         |            |
| S100A4        |             |         |         |            |
| IL-35         |             |         |         |            |
| ICOSLG        |             |         |         |            |
| MAD homolog 5 |             |         |         |            |
| LAMP3         |             |         |         |            |
| CCL17         |             |         |         |            |
| TRAIL         |             |         |         |            |
| VEGFR-3       |             |         |         |            |
| LYN           |             |         |         |            |
| IL-21         |             |         |         |            |
| PPY           |             |         |         |            |
| TNFRSF9       |             |         |         |            |
| hK11          |             |         |         |            |
| MIA           |             |         |         |            |
| IGF1R         |             |         |         |            |
| ERBB3         |             |         |         |            |
| IL33          |             |         |         |            |
| NCR1          |             |         |         |            |
| TNFRSF4       |             |         |         |            |
| RET           |             |         |         |            |
| IL10          |             |         |         |            |
| IL-1 alpha    |             |         |         |            |
| TNFSF14       |             |         |         |            |
| IL2           |             |         |         |            |
| MMP12         |             |         |         |            |
| CD83          |             |         |         |            |
| IL13          |             |         |         |            |
| ITGAV         |             |         |         |            |
| EGF           |             |         |         |            |
| CAIX          |             |         |         |            |
| CCL20         |             |         |         |            |
| IL4           |             |         |         |            |











**Supplementary Table S4. Summary of Stanford study cohort (N = 234)**

| Baseline characteristic                 | Study population<br>N = 227* |         | PTN<br>Negative/Low<br>N = 102 |         | PTN<br>Medium/High<br>N = 125 |          | P<br>value    |
|---|------------------------------|---------|--------------------------------|---------|-------------------------------|----------|---------------|
|   | CPG1                         | CPG5    | CPG1                           | CPG5    | CPG1                          | CPG5     |               |
| CPG, N (%)                              | 35 (15%)                     | 16 (7%) | 21 (60%)                       | 4 (25%) | 14 (40%)                      | 12 (75%) | <b>0.034</b>  |
| Age at baseline, years,<br>median (IQR) | 65 (60.8-68.5)               |         | 65 (60.6-68.6)                 |         | 65 (60.9-68.5)                |          | 0.81          |
| PSA, µg/L, median (IQR)                 | 7.7 (5.1-12.8)               |         | 6.9 (4.3-10.9)                 |         | 8.0 (5.8-14.5)                |          | <b>0.003</b>  |
| Pathological Grade, N (%)               |                              |         |                                |         |                               |          | <b>0.0012</b> |
| ≤ 6                                     | 46 (20%)                     |         | 26 (25%)                       |         | 20 (16%)                      |          |               |
| 3 + 4                                   | 132 (58%)                    |         | 55 (54%)                       |         | 77 (62%)                      |          |               |
| 4 + 3                                   | 47 (21%)                     |         | 21 (21%)                       |         | 26 (21%)                      |          |               |
| 8-10                                    | 2 (1%)                       |         | 0 (0%)                         |         | 2 (2%)                        |          |               |
| Pathological T-stage, N (%)             |                              |         |                                |         |                               |          | <b>0.0083</b> |
| pT2                                     | 146 (64%)                    |         | 71 (70%)                       |         | 75 (60%)                      |          |               |
| pT3                                     | 78 (34%)                     |         | 31 (30%)                       |         | 47 (38%)                      |          |               |
| pT4                                     | 3 (1%)                       |         | 0 (0%)                         |         | 3 (2%)                        |          |               |
| N-stage, N (%)                          |                              |         |                                |         |                               |          | 0.242         |
| N0/x                                    | 216 (95%)                    |         | 97 (95%)                       |         | 119 (95%)                     |          |               |
| N1                                      | 11 (5%)                      |         | 5 (5%)                         |         | 6 (5%)                        |          |               |
| Margin status, N (%) <sup>*</sup>       |                              |         |                                |         |                               |          | 0.335         |
| R-                                      | 182 (81%)                    |         | 85 (83%)                       |         | 97 (78%)                      |          |               |
| R+                                      | 44 (19%)                     |         | 17 (17%)                       |         | 27 (22%)                      |          |               |

\*Seven samples were excluded from the cohort due to lack of sufficient tissue.

P value: Mann-Whitney U test for continuous variables, X<sup>2</sup> test for categorical variables and Fisher's exact test for CPG, pathological grade, pathological T-stage, N-stage and margin status.

PSA, prostate specific antigen.

**Supplementary Table S5**

| <b>ID</b> | <b>Preop PSA (ng/ml)</b> | <b>Path T</b> | <b>Path Grade</b> | <b>PTN levels</b> |
|-----------|--------------------------|---------------|-------------------|-------------------|
| 1         | 13.40                    | T3a           | 3+4               | Negative/Low      |
| 2         | 29.70                    | T3b           | 4+3               | Negative/Low      |
| 3         | 11.70                    | T3b           | 4+3               | Negative/Low      |
| 4         | 12.60                    | T3a           | 3+4               | Negative/Low      |
| 5         | 22.06                    | T2b           | 3+3               | Negative/Low      |
| 6         | 5.61                     | T3a           | 3+4               | Negative/Low      |
| 7         | 19.60                    | T3a           | 4+3               | Negative/Low      |
| 8         | 9.29                     | T2b           | 3+4               | Negative/Low      |
| 9         | 79.20                    | T4            | 3+4               | Negative/Low      |
| 10        | 8.19                     | T2b           | 3+4               | Negative/Low      |
| 11        | 27.00                    | T2b           | 3+4               | Negative/Low      |
| 12        | 64.35                    | T4            | 4+3               | Negative/Low      |
| 13        | 15.07                    | T3b           | 4+3               | Negative/Low      |
| 14        | 7.80                     | T3b           | 3+4               | Negative/Low      |
| 15        | 35.00                    | T3a           | 3+4               | Negative/Low      |
| 16        | 17.80                    | T3a           | 3+4               | Negative/Low      |
| 17        | 15.73                    | T2            | 3+3               | Negative/Low      |
| 18        | 4.18                     | T2b           | 3+3               | Negative/Low      |
| 19        | 3.41                     | T3b           | 4+3               | Negative/Low      |
| 20        | 5.17                     | T3a           | 3+4               | Negative/Low      |
| 21        | 6.10                     | T3a           | 4+3               | Negative/Low      |
| 22        | 3.74                     | T2b           | 3+4               | Negative/Low      |
| 23        | 6.98                     | T3a           | 3+4               | Negative/Low      |
| 24        | 11.00                    | T3a           | 3+4               | Negative/Low      |
| 25        | 12.20                    | T3a           | 3+4               | Negative/Low      |
| 26        | 8.00                     | T2b           | 4+3               | Negative/Low      |
| 27        | 5.10                     | T2b           | 3+3               | Negative/Low      |
| 28        | 5.17                     | T2b           | 3+4               | Negative/Low      |
| 29        | 5.30                     | T3a           | 4+3               | Negative/Low      |
| 30        | 1.70                     | T2b           | 3+3               | Negative/Low      |
| 31        | 21.45                    | T3b           | 3+4               | Negative/Low      |
| 32        | 11.50                    | T2b           | 3+4               | Negative/Low      |
| 33        | 2.47                     | T2b           | 3+4               | Negative/Low      |
| 34        | 6.43                     | T2b           | 3+3               | Negative/Low      |
| 35        | 5.40                     | T2b           | 3+4               | Negative/Low      |
| 36        | 41.70                    | T3b           | 4+5               | Negative/Low      |
| 37        | 5.80                     | T3a           | 3+4               | Negative/Low      |
| 38        | 10.00                    | T2b           | 3+4               | Negative/Low      |
| 39        | 15.34                    | T2b           | 3+4               | Negative/Low      |
| 40        | 7.20                     | T2b           | 3+4               | Negative/Low      |
| 41        | 24.97                    | T3b           | 3+4               | Negative/Low      |
| 42        | 3.60                     | T2b           | 3+4               | Negative/Low      |
| 43        | 6.80                     | T2b           | 3+4               | Negative/Low      |
| 44        | 18.00                    | T3a           | 4+3               | Negative/Low      |

|    |       |     |     |                    |
|----|-------|-----|-----|--------------------|
| 45 | 2.86  | T2b | 3+3 | Negative/Low       |
| 46 | 4.65  | T2a | 3+4 | Negative/Low       |
| 47 | 7.80  | T2b | 3+3 | Negative/Low       |
| 48 | 13.90 | T3a | 3+4 | Negative/Low       |
| 49 | 1.15  | T2b | 3+4 | Negative/Low       |
| 50 | 4.40  | T3a | 3+4 | Negative/Low       |
| 51 | 1.59  | T2a | 3+4 | Negative/Low       |
| 52 | 1.70  | T2b | 3+4 | Negative/Low       |
| 53 | 19.90 | T3a | 4+3 | Negative/Low       |
| 54 | 3.40  | T2b | 3+3 | Negative/Low       |
| 55 | 35.47 | T3b | 4+3 | Negative/Low       |
| 56 | 2.31  | T2b | 3+3 | Negative/Low       |
| 57 | 11.00 | T2b | 3+4 | Negative/Low       |
| 58 | 5.50  | T3a | 4+3 | Negative/Low       |
| 59 | 14.90 | T3a | 3+4 | Negative/Low       |
| 60 | 4.60  | T3a | 3+4 | Negative/Low       |
| 61 | 20.90 | T2b | 3+4 | Negative/Low       |
| 62 | 5.83  | T3a | 4+3 | Negative/Low       |
| 63 | 5.72  | T3a | 3+4 | Negative/Low       |
| 64 | 17.90 | T2  | 3+4 | Negative/Low       |
| 65 | 9.79  | T2  | 4+3 | Negative/Low       |
| 66 | 5.06  | T3a | 3+4 | Negative/Low       |
| 67 | 10.89 | T2b | 3+4 | Negative/Low       |
| 68 | 7.37  | T2b | 3+4 | Negative/Low       |
| 69 | 7.26  | T3a | 3+4 | Negative/Low       |
| 70 | 4.07  | T2b | 3+4 | Negative/Low       |
| 71 | 62.50 | T3a | 4+3 | Negative/Low       |
| 72 | 36.63 | T3a | 3+4 | Negative/Low       |
| 73 | 29.30 | T2b | 3+4 | N/A Lack of tissue |
| 74 | 9.30  | T2b | 3+4 | Negative/Low       |
| 75 | 5.40  | T3a | 4+3 | Negative/Low       |
| 76 | 6.93  | T2b | 3+4 | N/A Lack of tissue |
| 77 | 12.30 | T2b | 3+4 | Negative/Low       |
| 78 | 13.10 | T2b | 3+3 | Negative/Low       |
| 79 | 11.90 | T4  | 3+4 | Negative/Low       |
| 80 | 30.25 | T2a | 4+3 | Negative/Low       |
| 81 | 6.90  | T3a | 3+4 | Negative/Low       |
| 82 | 62.70 | T3a | 4+3 | Negative/Low       |
| 83 | 16.20 | T2b | 3+3 | Negative/Low       |
| 84 | 7.80  | T3a | 3+4 | Negative/Low       |
| 85 | 12.20 | T3a | 3+4 | Negative/Low       |
| 86 | 7.60  | T3b | 4+3 | Negative/Low       |
| 87 | 10.90 | T2b | 3+4 | Negative/Low       |
| 88 | 19.60 | T3b | 3+4 | Negative/Low       |
| 89 | 13.86 | T3a | 3+4 | Negative/Low       |

|     |       |     |     |                    |
|-----|-------|-----|-----|--------------------|
| 90  | 22.00 | T3b | 4+3 | Negative/Low       |
| 91  | 3.63  | T2b | 3+4 | Negative/Low       |
| 92  | 13.30 | T3a | 3+4 | Negative/Low       |
| 93  | 41.40 | T3a | 3+3 | N/A Lack of tissue |
| 94  | 2.30  | T2  | 3+4 | Negative/Low       |
| 95  | 12.70 | T2b | 3+4 | Negative/Low       |
| 96  | 2.47  | T2b | 3+3 | Negative/Low       |
| 97  | 10.45 | T3a | 3+3 | Negative/Low       |
| 98  | 6.70  | T3a | 3+4 | Negative/Low       |
| 99  | 7.09  | T3a | 3+4 | Negative/Low       |
| 100 | 13.30 | T3a | 3+4 | Negative/Low       |
| 101 | 1.00  | T3a | 3+4 | Negative/Low       |
| 102 | 4.17  | T2b | 3+3 | Negative/Low       |
| 103 | 16.80 | T3a | 4+3 | Negative/Low       |
| 104 | 7.86  | T3a | 3+4 | Negative/Low       |
| 105 | 3.18  | T2b | 3+3 | Negative/Low       |
| 106 | 3.90  | T2b | 3+4 | Medium/High        |
| 107 | 8.03  | T2b | 3+4 | Medium/High        |
| 108 | 4.19  | T2b | 3+4 | Medium/High        |
| 109 | 1.87  | T2  | 3+3 | Medium/High        |
| 110 | 12.98 | T2b | 3+4 | Medium/High        |
| 111 | 2.34  | T2a | 3+4 | Medium/High        |
| 112 | 27.90 | T2b | 3+4 | Medium/High        |
| 113 | 1.70  | T3a | 3+4 | Medium/High        |
| 114 | 9.00  | T2a | 3+4 | Medium/High        |
| 115 | 16.00 | T3b | 4+3 | Medium/High        |
| 116 | 9.50  | T3a | 4+3 | Medium/High        |
| 117 | 4.40  | T2b | 3+4 | Medium/High        |
| 118 | 4.77  | T2a | 3+4 | Medium/High        |
| 119 | 6.90  | T3a | 3+4 | Medium/High        |
| 120 | 7.81  | T3a | 4+3 | Medium/High        |
| 121 | 6.10  | T2b | 3+4 | Medium/High        |
| 122 | 3.56  | T2b | 3+4 | N/A Lack of tissue |
| 123 | 2.18  | T2b | 3+4 | Medium/High        |
| 124 | 10.05 | T2b | 3+4 | Medium/High        |
| 125 | 6.88  | T2b | 3+4 | Medium/High        |
| 126 | 5.79  | T2b | 3+4 | N/A Lack of tissue |
| 127 | 6.00  | T2b | 3+2 | Medium/High        |
| 128 | 2.15  | T2b | 3+4 | Medium/High        |
| 129 | 7.24  | T2b | 3+4 | Medium/High        |
| 130 | 6.71  | T2b | 3+4 | Medium/High        |
| 131 | 6.29  | T2b | 3+3 | Medium/High        |
| 132 | 5.01  | T2b | 3+3 | Medium/High        |
| 133 | 7.57  | T2b | 4+3 | Medium/High        |
| 134 | 3.22  | T2  | 3+3 | Medium/High        |

|     |       |     |     |             |
|-----|-------|-----|-----|-------------|
| 135 | 7.94  | T2  | 3+4 | Medium/High |
| 136 | 13.75 | T3b | 4+3 | Medium/High |
| 137 | 15.87 | T2b | 3+4 | Medium/High |
| 138 | 7.90  | T2a | 4+3 | Medium/High |
| 139 | 4.05  | T2b | 4+3 | Medium/High |
| 140 | 6.52  | T2a | 3+4 | Medium/High |
| 141 | 6.16  | T2b | 3+4 | Medium/High |
| 142 | 9.04  | T2a | 3+4 | Medium/High |
| 143 | 9.10  | T3a | 3+4 | Medium/High |
| 144 | 5.75  | T2b | 3+3 | Medium/High |
| 145 | 6.30  | T2b | 3+4 | Medium/High |
| 146 | 18.23 | T2b | 3+4 | Medium/High |
| 147 | 2.49  | T2b | 3+4 | Medium/High |
| 148 | 7.13  | T3a | 3+4 | Medium/High |
| 149 | 3.93  | T2a | 3+4 | Medium/High |
| 150 | 2.99  | T2b | 3+4 | Medium/High |
| 151 | 17.86 | T2b | 3+3 | Medium/High |
| 152 | 11.51 | T2  | 3+4 | Medium/High |
| 153 | 8.70  | T2b | 3+4 | Medium/High |
| 154 | 3.69  | T2b | 3+4 | Medium/High |
| 155 | 3.84  | T2b | 3+4 | Medium/High |
| 156 | 50.39 | T3a | 4+3 | Medium/High |
| 157 | 4.07  | T2b | 3+3 | Medium/High |
| 158 | 8.27  | T2b | 3+4 | Medium/High |
| 159 | 17.05 | T2b | 4+3 | Medium/High |
| 160 | 7.40  | T2b | 3+4 | Medium/High |
| 161 | 22.30 | T2a | 3+3 | Medium/High |
| 162 | 5.99  | T2a | 3+4 | Medium/High |
| 163 | 10.52 | T2b | 3+4 | Medium/High |
| 164 | 8.82  | T2b | 3+4 | Medium/High |
| 165 | 8.07  | T2b | 4+3 | Medium/High |
| 166 | 7.01  | T2b | 3+4 | Medium/High |
| 167 | 9.78  | T2b | 4+3 | Medium/High |
| 168 | 8.04  | T2a | 3+4 | Medium/High |
| 169 | 2.21  | T2b | 3+3 | Medium/High |
| 170 | 0.84  | T2b | 3+3 | Medium/High |
| 171 | 17.17 | T2b | 3+4 | Medium/High |
| 172 | 36.78 | T3a | 4+3 | Medium/High |
| 173 | 3.85  | T2b | 3+4 | Medium/High |
| 174 | 12.28 | T3b | 3+4 | Medium/High |
| 175 | 6.87  | T3a | 3+4 | Medium/High |
| 176 | 7.47  | T2b | 3+4 | Medium/High |
| 177 | 5.42  | T2b | 3+3 | Medium/High |
| 178 | 6.60  | T2a | 3+3 | Medium/High |
| 179 | 19.16 | T3a | 4+3 | Medium/High |

|     |       |     |     |                    |
|-----|-------|-----|-----|--------------------|
| 180 | 14.19 | T2b | 3+4 | Medium/High        |
| 181 | 6.00  | T2b | 3+3 | Medium/High        |
| 182 | 4.40  | T2b | 3+3 | Medium/High        |
| 183 | 1.70  | T2b | 3+3 | Medium/High        |
| 184 | 3.52  | T3a | 4+3 | Medium/High        |
| 185 | 25.99 | T2b | 3+3 | Medium/High        |
| 186 | 15.92 | T2b | 4+3 | Medium/High        |
| 187 | 4.60  | T2b | 3+4 | Medium/High        |
| 188 | 4.50  | T2b | 3+3 | Medium/High        |
| 189 | 7.41  | T2b | 3+4 | Medium/High        |
| 190 | 10.79 | T2b | 3+4 | Medium/High        |
| 191 | 9.66  | T2b | 3+4 | Medium/High        |
| 192 | 7.79  | T3a | 3+4 | Medium/High        |
| 193 | 14.86 | T2b | 3+4 | Medium/High        |
| 194 | 11.20 | T2b | 3+3 | Medium/High        |
| 195 | 5.71  | T3a | 3+4 | N/A Lack of tissue |
| 196 | 10.40 | T2b | 4+3 | Medium/High        |
| 197 | 3.51  | T3a | 3+4 | Medium/High        |
| 198 | 10.29 | T2b | 3+4 | Medium/High        |
| 199 | 7.00  | T2b | 4+3 | Medium/High        |
| 200 | 10.94 | T3a | 4+3 | Medium/High        |
| 201 | 3.83  | T2b | 3+3 | Medium/High        |
| 202 | 9.85  | T2b | 4+3 | Medium/High        |
| 203 | 7.42  | T3a | 4+3 | Medium/High        |
| 204 | 13.50 | T2  | 4+3 | Medium/High        |
| 205 | 7.97  | T2b | 3+3 | Medium/High        |
| 206 | 5.13  | T2b | 3+4 | Medium/High        |
| 207 | 12.02 | T2b | 3+4 | Medium/High        |
| 208 | 8.66  | T2a | 3+4 | Medium/High        |
| 209 | 7.22  | T3a | 4+3 | Medium/High        |
| 210 | 6.11  | T2b | 3+4 | Medium/High        |
| 211 | 5.54  | T2b | 3+3 | Medium/High        |
| 212 | 9.00  | T2b | 3+3 | Medium/High        |
| 213 | 6.94  | T3b | 4+3 | Medium/High        |
| 214 | 8.20  | T3a | 3+4 | Medium/High        |
| 215 | 30.56 | T2b | 3+4 | Medium/High        |
| 216 | 4.90  | T2b | 3+3 | Medium/High        |
| 217 | 11.44 | T2b | 3+4 | N/A Lack of tissue |
| 218 | 9.71  | T2b | 3+4 | Medium/High        |
| 219 | 4.96  | T3a | 3+4 | Medium/High        |
| 220 | 10.80 | T2b | 3+3 | Medium/High        |
| 221 | 6.40  | T3a | 3+3 | Medium/High        |
| 222 | 5.36  | T2b | 3+3 | Medium/High        |
| 223 | 4.80  | T2b | 3+3 | Medium/High        |
| 224 | 6.14  | T3a | 3+3 | Medium/High        |

|     |       |     |     |             |
|-----|-------|-----|-----|-------------|
| 225 | 5.02  | T2b | 3+4 | Medium/High |
| 226 | 6.47  | T2b | 3+4 | Medium/High |
| 227 | 11.07 | T2b | 3+4 | Medium/High |
| 228 | 23.92 | T2b | 3+4 | Medium/High |
| 229 | 4.20  | T2b | 3+3 | Medium/High |
| 230 | 5.50  | T2b | 3+4 | Medium/High |
| 231 | 6.10  | T2b | 3+4 | Medium/High |
| 232 | 7.79  | T2b | 4+3 | Medium/High |
| 233 | 15.00 | T3a | 4+3 | Medium/High |
| 234 | 14.19 | T3b | 4+4 | Medium/High |



| <u>ID</u> | <u>Sample Stage</u> | <u>Sample Type</u> | <u>PSA Diagnosis</u> | <u>PSA Diagnosis Date</u> |
|-----------|---------------------|--------------------|----------------------|---------------------------|
| 1         | Benign              | Serum              | 3.41                 | 16/10/2014                |
| 2         | Benign              | Serum              | 9.1                  | 01/11/2014                |
| 3         | Benign              | Serum              | 9.74                 | 01/12/2016                |
| 4         | Benign              | Serum              | 4.3                  | 19/01/2017                |
| 5         | Benign              | Serum              | 10.53                | 02/10/2017                |
| 6         | Benign              | Serum              | 12.27                | 22/09/2017                |
| 7         | Benign              | Serum              | 4.78                 | 26/09/2017                |
| 8         | Benign              | Serum              | 7.7                  | 05/10/2017                |
| 9         | Benign              | Serum              | 16.22                | 15/11/2017                |
| 10        | Benign              | Serum              | 4.93                 | 08/11/2017                |
| 11        | Benign              | Serum              | 10.76                | 26/09/2017                |
| 12        | Benign              | Serum              | 5.8                  | 16/01/2018                |
| 13        | Benign              | Serum              | 11.53                | 24/10/2014                |
| 14        | Benign              | Serum              | 7.68                 | 17/11/2017                |
| 15        | Benign              | Serum              | 6.38                 | 19/12/2017                |
| 16        | Benign              | Serum              | 62.02                | 22/11/2017                |
| 17        | Benign              | Serum              | 5.87                 | 27/02/2018                |
| 18        | Benign              | Serum              | 7.34                 | 22/03/2018                |
| 19        | Benign              | Serum              | 9.5                  | 15/05/2017                |
| 20        | Benign              | Serum              | 10.78                | 29/12/2017                |
| 21        | CPG1                | Serum              | 7.7                  | 01/12/2016                |
| 22        | CPG1                | Serum              | 4.8                  | 01/12/2016                |
| 23        | CPG1                | Serum              | 3.4                  | 22/09/2015                |
| 24        | CPG1                | Serum              | 9.4                  | 02/04/2016                |
| 25        | CPG1                | Serum              | 3.26                 | 17/01/2016                |
| 26        | CPG1                | Serum              | 2.4                  | 11/06/2012                |
| 27        | CPG1                | Serum              | 5.53                 | 09/11/2017                |
| 28        | CPG1                | Serum              | 11.49                | 09/11/2017                |
| 29        | CPG1                | Serum              | 6.9                  | 22/01/2017                |
| 30        | CPG1                | Serum              | 7.02                 | 12/10/2017                |
| 31        | CPG1                | Serum              | 4.27                 | 12/10/2017                |
| 32        | CPG1                | Serum              | 2.92                 | 26/10/2015                |
| 33        | CPG1                | Serum              | 6                    | 15/06/2012                |
| 34        | CPG1                | Serum              | 6.77                 | 24/11/2017                |
| 35        | CPG1                | Serum              | 3.3                  | 14/10/2008                |
| 36        | CPG1                | Serum              | 5.29                 | 08/07/2013                |
| 37        | CPG1                | Serum              | 2.91                 | 13/10/2014                |
| 38        | CPG1                | Serum              | 5.8                  | 04/04/2013                |
| 39        | CPG1                | Serum              | 3.62                 | 09/12/2016                |
| 40        | CPG1                | Serum              | 7.1                  | 02/09/2012                |
| 41        | CPG5                | Serum              | 68.43                | 18/10/2016                |
| 42        | CPG5                | Serum              | 123.33               | 31/10/2016                |
| 43        | CPG5                | Serum              | 122.57               | 02/11/2016                |
| 44        | CPG5                | Serum              | 10.73                | 9/6/16                    |

|    |            |       |         |            |
|----|------------|-------|---------|------------|
| 45 | CPG5       | Serum | 301.14  | 07/11/2016 |
| 46 | CPG5       | Serum | 21.67   | 27/03/2017 |
| 47 | CPG5       | Serum | 33.87   | 05/05/2017 |
| 48 | CPG5       | Serum | 11.82   | 23/11/2017 |
| 49 | CPG5       | Serum | 4.31    | 09/10/2017 |
| 50 | CPG5       | Serum | 54      | 27/11/2017 |
| 51 | CPG5       | Serum | 6.8     | 11/8/17    |
| 52 | CPG5       | Serum | 19.3    | 03/07/2017 |
| 53 | CPG5       | Serum | 50.65   | 1/16/18    |
| 54 | CPG5       | Serum | 20.29   | 16/02/2018 |
| 55 | CPG5       | Serum | 8.42    | 10/12/17   |
| 56 | CPG5       | Serum | 11      | 19/06/2017 |
| 57 | CPG5       | Serum | 32.33   | 07/08/2017 |
| 58 | CPG5       | Serum | 12.83   | 15/11/2017 |
| 59 | CPG5       | Serum | 6.68    | 05/01/2018 |
| 60 | CPG5       | Serum | 13      | 04/12/2017 |
| 61 | Metastatic | serum | 55.49   | 22/10/2014 |
| 62 | Metastatic | serum | 11.39   | 23/02/2015 |
| 63 | Metastatic | serum | 128.83  | 06/03/2015 |
| 64 | Metastatic | serum | 58.47   | 10/11/2014 |
| 65 | Metastatic | serum | 99.06   | 03/11/2014 |
| 66 | Metastatic | serum | 10.3    | 20/01/2015 |
| 67 | Metastatic | serum | 100     | 28/01/2015 |
| 68 | Metastatic | serum | 75.52   | 21/04/2015 |
| 69 | Metastatic | serum | 130.2   | 09/06/2015 |
| 70 | Metastatic | serum | 29.81   | 30/04/2015 |
| 71 | Metastatic | serum | 10.1    | 29/06/2015 |
| 72 | Metastatic | serum | 96.74   | 17/06/2015 |
| 73 | Metastatic | serum | 270.25  | 10/10/2016 |
| 74 | Metastatic | serum | 222.93  | 05/07/2017 |
| 75 | Metastatic | serum | 355.55  | 05/03/2018 |
| 76 | Metastatic | serum | 230.04  | 03/10/2017 |
| 77 | Metastatic | serum | 1255.12 | 22/02/2018 |
| 78 | Metastatic | serum | 193.4   | 02/02/2018 |
| 79 | Metastatic | serum | 844.74  | 28/03/2018 |
| 80 | Metastatic | Serum | 7255.83 | 16/04/2018 |