**Supplemental Table 5**

Clinical characteristics of HLA-A*11- and HLA-A*11+ prostate cancer patients in TCGA-PRAD

| Age, years | HLA-A*11- (n=305) | HLA-A*11+ (n=31) | Mann-Whitney |
|------------|------------------|------------------|--------------|
| median (range) | 62 (43-77)       | 61 (47-73)       | p=0.35       |

| s-PSA | HLA-A*11- (n=305) | HLA-A*11+ (n=31) | Mann-Whitney |
|-------|------------------|------------------|--------------|
| median (range) | 7.8 (1.5-107.0) | 7.5 (3.6-33.7) | p=0.96       |

| Gleason grade group, n (%) | HLA-A*11- (n=305) | HLA-A*11+ (n=31) | Fisher's exact test |
|---------------------------|------------------|------------------|---------------------|
| 1                         | 17 (6)           | 1 (3)            |                     |
| 2                         | 82 (27)          | 10 (32)          | 1-3 vs 4-5          |
| 3                         | 70 (23)          | 9 (29)           | p=0.35              |
| 4                         | 43 (14)          | 5 (16)           |                     |
| 5                         | 93 (30)          | 6 (19)           |                     |

| T-stage (cT) n, (%) | HLA-A*11- (n=305) | HLA-A*11+ (n=31) | Fisher's exact test |
|---------------------|------------------|------------------|---------------------|
| T2a                 | 3 (1)            | 1 (3)            |                     |
| T2b                 | 6 (2)            | 0 (0)            | T2 vs T3-4          |
| T2c                 | 100 (33)         | 8 (26)           | p=0.56              |
| T3a                 | 108 (35)         | 11 (35)          |                     |
| T3b                 | 81 (27)          | 11 (35)          |                     |
| T4                  | 7 (2)            | 0 (0)            |                     |

| N-stage n, (%) | HLA-A*11- (n=305) | HLA-A*11+ (n=31) | Fisher's exact test |
|----------------|------------------|------------------|---------------------|
| N1             | 57 (19)          | 5 (16)           | p>0.99              |