

SUPPLEMENTARY TABLE

Supplementary Table 1. Variances in gene mutation frequencies between DC1 and DC2 groups.

| Hugo_symbol | Group1 | Group2 | n_mutated_group1 | n_mutated_group2 | p_value |
|--------------------|---------------|---------------|-------------------------|-------------------------|----------------|
| PBRM1 | Cluster1 | Cluster2 | 83 of 228 | 63 of 128 | 0.024531121 |
| PBRM1 | Cluster2 | Cluster1 | 63 of 128 | 83 of 228 | 0.024531121 |
| BAP1 | Cluster1 | Cluster2 | 21 of 228 | 16 of 128 | 0.367009091 |
| BAP1 | Cluster2 | Cluster1 | 16 of 128 | 21 of 228 | 0.367009091 |
| TTN | Cluster1 | Cluster2 | 34 of 228 | 24 of 128 | 0.371288981 |
| TTN | Cluster2 | Cluster1 | 24 of 128 | 34 of 228 | 0.371288981 |
| VHL | Cluster1 | Cluster2 | 108 of 228 | 58 of 128 | 0.740531199 |
| VHL | Cluster2 | Cluster1 | 58 of 128 | 108 of 228 | 0.740531199 |
| MUC16 | Cluster1 | Cluster2 | 17 of 228 | 9 of 128 | 1 |
| MUC16 | Cluster2 | Cluster1 | 9 of 128 | 17 of 228 | 1 |