**Supplemental Digital Content 2**

**Table 1. Primers and Probes Sequences.**

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| **Gene** | **Accession Number** | **Sense Primer** | **Position** | **Antisense primer** | **Position** | **Probe** | **Position** |
| OX40 | NM\_003327.2 |  5’ ACGACGTGGTCAGCTCCAA 3’ | 223-241 | 5’ TCCGCTCACTCCCACTTCTG 3’ | 291-272 | 5’ FAM-AAGCCCTGCACGTGG- MGB 3’ | 249-263 |
| OX40L | NM\_003326.3 |  5’ CACCTACATCTGCCTGCACTTC 3’ | 276-297 | 5’ TTCGGTAAATTGTACTTTGATACTTTGAA 3’ | 360-332 | 5’ FAM-TGCTCTTCAGGTATCACAT- MGB 3’ | 300-318 |
| PD-1 | NM\_005018.1 |  5’ CTACAACTGGGCTGGCGG 3’ | 111-128 | 5’ TGTGTTGGAGAAGCTGCAGG 3’ | 245-226 | 5’ FAM- TCGTGGTGACCGAAGG-MGB 3’ | 193-208 |
| PD-L1 | NM\_014143.2 |  5’ GGAGATTAGATCCTGAGGAAAACCA 3’ | 687-711 | 5’ GAGTCCTTTCATTTGGAGGATGTG 3’ | 770-747 | 5' FAM- ACAGCTGAATTGGTCATCCCAGAACTACCTC -TAMRA 3’ | 713-743 |
| PD-L2 | NM\_025239 |  5’ AGGGAACTTACTTTGGCCAGC 3’ | 856-876 | 5’ AGCAGCCAAGTTGGATGGG 3’ | 926-908 | 5’ FAM- TTGACCTTCAAAGTCAGATGGAACCCAGG-TAMRA 3’ | 878-906 |
| Granzyme B | J04071 | 5' GCGAATCTGACTTACGCCATTATT 3' | 534-557 | 5' CAAGAGGGCCTCCAGAGTCC 3' | 638-619 | 5’ FAM-CCCACGCACAACTCAATGGTACTGTCG-TAMRA-3’ | 559-585 |
| Perforin | M28393 | 5' GGACCAGTACAGCTTCAGCACTG 3' | 492-514 | 5' GCCCTCTTGAAGTCAGGGTG 3' | 587-568 | 5' FAM-TGCCGCTTCTACAGTTTCCATGTGGTACAC-TAMRA-3' | 526-555 |
| Foxp3 | NM\_014009 | 5’ GAGAAGCTGAGTGCCATGCA 3’ | 939-958 | 5’ GGAGCCCTTGTCGGATGAT 3’ | 1025-1007 | 5’ FAM-TGCCATTTTCCCAGCCAGGTGG-TAMRA 3’ | 962-983 |
| 18S rRNA | K03432 | 5' GCCCGA AGCGTTTACTTTGA 3' | 929-948 | 5' TCCATTATTCCT AGCTGCGGTATC 3' | 1009-986 | 5’ FAM-AAAGCAGGC CCGAGCCGCC-TAMRA 3’ | 965-983 |

The gene-specific oligonucleotide primers and probes were designed using Primer Express software (PE Applied Biosystems, Foster City, CA). The probes were labeled with 6-carboxy-fluorescein (FAM) at the 5’ end and 6-carboxy-tetramethylrodamine (TAMRA) or dihydrocyclopyrroloindole tripeptide minor groove binder (MGB) at the 3’ end. FAM functioned as the reporter dye and TAMRA or MGB as the quencher dye.