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| **Supplementary Table 4. Primer sequences for the 22 immune-related genes in IGSHCC used in the PCR array** |
| **Gene name** | **TM** | **Length (nt)** | **Sequence** |  |
| *VIPR1* | 83.9 | 91 | Forward | 5'-CTGGAGCGTTTCTAGCAAGTG-3' |
|  |  |  | Reverse | 5'-GCCTTTGGAGGAGGAGTCTAA-3' |
| *IL20RA* | 80.7 | 113 | Forward | 5'-GAGGAGGTGAAACATTTAGGG-3' |
|  |  |  | Reverse | 5'-ATTGTTCTGCTGAGGGACTCT-3' |
| *RETN* | 83.6 | 98 | Forward | 5'-GGTGTCTAGCAAGACCCTGTG-3' |
|  |  |  | Reverse | 5'-CAATGCTGCTTATTGCCCTAA-3' |
| *STC2* | 80.7 | 110 | Forward | 5'-TCAGAAGTCGGGTAGATAGCA-3' |
|  |  |  | Reverse | 5'-GAATGTGGACCTTCCTCAGTT-3' |
| *PLAUR* | 85.2 | 119 | Forward | 5'-GCTTGTGGGAAGAAGGAGAAGA-3' |
|  |  |  | Reverse | 5'-AACCTCGGTAAGGCTGGTGAT-3' |
| *NR0B1* | 80.8 | 88 | Forward | 5'-ACCCTTTTCCTGCTGAGATTC-3' |
|  |  |  | Reverse | 5'-TATCATCCATGCTGACTGTGC-3' |
| *PSMD14* | 81.8 | 96 | Forward | 5'-AACACTCAGCAGAGCTTTGAA-3' |
|  |  |  | Reverse | 5'-GGCATCAATAACAACCTTTCC-3' |
| *GMFB* | 80.0 | 119 | Forward | 5'-CAGGAAGCAATAGAAAGTTGG-3' |
|  |  |  | Reverse | 5'-CTTCCTGGGTGAGTTTTCTCT-3' |
| *CAMP* | 79.6 | 123 | Forward | 5'-ATAACAAGAGATTTGCCCTGC-3' |
|  |  |  | Reverse | 5'-CTGTCCTGGGTACAAGATTCC-3' |
| *GLP1R* | 86.0 | 125 | Forward | 5'-CAAACACAGAGCGGGAGTGAC-3' |
|  |  |  | Reverse | 5'-GGCAAGATGAGGGAAATAAGCA-3' |
| *ULBP2* | 84.5 | 95 | Forward | 5'-ATTCATCTTCCAGGCTCTCCT-3' |
|  |  |  | Reverse | 5'-GCACAGAAGGATCTTGGTAGC-3' |
| *GAL* | 84.1 | 73 | Forward | 5'-ACAGGTCATTCAGCGACAAGA-3' |
|  |  |  | Reverse | 5'-CCTGGTTTCATGTCATCTTCG-3' |
| *HDGF* | 82.6 | 99 | Forward | 5'-GAGACCTGAAGGGTTGACTTT-3' |
|  |  |  | Reverse | 5'-GAGTCTTCCCAAGCATCCTAT-3' |
| *TNF* | 80.7 | 76 | Forward | 5'-CAGGACTTGAGAAGACCTCAC-3' |
|  |  |  | Reverse | 5'-GTCTGGAAACATCTGGAGAGA-3' |
| *CCR7* | 83.7 | 100 | Forward | 5'-GGAGACTTCTTGGCTTGGTGA-3' |
|  |  |  | Reverse | 5'-CTGGCTTGGAGGACAGTGA-3' |
| *CXCL5* | 83.5 | 101 | Forward | 5'-AGACCACGCAAGGAGTTCAT-3' |
|  |  |  | Reverse | 5'-GTTCTTCAGGGAGGCTACCAC-3' |
| *CCR8* | 82.6 | 96 | Forward | 5'-TACATTGGCTTCTACAGCAGC-3' |

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|  |  |  | Reverse | 5'-CCTCACCTTTAGGGCATACAC-3' |
| *BMP6* | 83.1 | 96 | Forward | 5'-TGACCTGTTTTTGTTGGACAC-3' |
|  |  |  | Reverse | 5'-GTCACAACCCACAGATTGCTA-3' |
| *C5* | 80.7 | 98 | Forward | 5'-TGCCCTACCTGATTCTCTAAC-3' |
|  |  |  | Reverse | 5'-TGAACACCTTTGCCTTGAC-3' |
| *EPO* | 85.3 | 116 | Forward | 5'-ACTCCGAACAATCACTGCTG-3' |
|  |  |  | Reverse | 5'-GTCATCTGTCCCCTGTCCT-3' |
| *GHR* | 79.9 | 107 | Forward | 5'-TCTCATCATGTGGCTATGTGA-3' |
|  |  |  | Reverse | 5'-CCCCAGTCAATTCTTTGCTAT-3' |
| *BRD8* | 82.0 | 89 | Forward | 5'-AGTATGGAGCCACCAGAACTC-3' |
|  |  |  | Reverse | 5'-GCAACATCTGCTTCAACAATC-3' |

TM, melting temperature.