**Table S3**. HLA genotype information for the 9 individuals with HSFX1 expression.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Sample** | **Disease** | **TPM** | **HLA-A1** | **HLA-A2** | **HLA-B1** | **HLA-B2** | **HLA-C1** | **HLA-C2** |
| TCGA-AA-3502 | COAD | 0.28 | A\*02:01 | A\*25:01 | B\*44:02 | B\*51:01 | C\*07:04 | C\*16:02 |
| TCGA-AP-A1DM | UCEC | 1.00 | A\*03:01 | A\*01:01 | B\*08:01 | B\*35:01 | C\*07:01 | C\*04:01 |
| TCGA-AA-A01K | COAD | 0.83 | A\*01:01 | A\*03:01 | B\*07:02 | B\*51:01 | C\*07:02 | C\*12:02 |
| TCGA-AA-3684 | COAD | 1.10 | A\*02:01 | A\*24:02 | B\*44:05 | B\*52:01 | C\*02:02 | C\*12:02 |
| TCGA-D1-A17F | UCEC | 1.79 | A\*02:01 | A\*02:01 | B\*15:01 | B\*51:01 | C\*01:02 | C\*03:04 |
| TCGA-AA-3875 | COAD | 0.72 | A\*01:01 | A\*68:01 | B\*08:01 | B\*15:01 | C\*03:03 | C\*07:01 |
| TCGA-AA-3848 | COAD | 3.05 | A\*02:01 | A\*29:02 | B\*41:02 | B\*44:03 | C\*16:01 | C\*17:01 |
| TCGA-BG-A0MT | UCEC | 0.70 | A\*02:01 | A\*02:01 | B\*44:02 | B\*50:01 | C\*05:01 | C\*06:02 |
| TCGA-BG-A18C | UCEC | 4.49 | A\*03:01 | A\*24:02 | B\*07:02 | B\*07:02 | C\*07:02 | C\*07:02 |