Supplementary Data 1. SHF expression and Clinical pathological information of GBM samples

| No. | Overall survival (1=death, 0=alive) | Disease specific survival in days | Gender | Age | IRS of SHF |
|-----|----------------------------------|----------------------------------|--------|-----|------------|
| 1   | 1                                | 199                              | male   | 78  | 92.60      |
| 2   | 1                                | 1172                             | male   | 37  | 20.21      |
| 3   | 1                                | 2605                             | female | 60  | 49.35      |
| 4   | 1                                | 2360                             | female | 58  | 49.75      |
| 5   | 1                                | 2240                             | male   | 78  | 17.18      |
| 6   | 1                                | 838                              | male   | 57  | 12.29      |
| 7   | 1                                | 1295                             | female | 61  | 81.91      |
| 8   | 1                                | 838                              | female | 61  | 46.15      |
| 9   | 1                                | 2695                             | male   | 49  | 61.44      |
| 10  | 1                                | 2240                             | female | 66  | 66.02      |
| 11  | 1                                | 1295                             | female | 61  | 49.22      |
| 12  | 1                                | 930                              | male   | 71  | 133.03     |
| 13  | 1                                | 899                              | female | 55  | 19.57      |
| 14  | 1                                | 779                              | male   | 47  | 36.43      |
| 15  | 1                                | 1022                             | male   | 50  | 37.46      |
| 16  | 1                                | 382                              | female | 47  | 24.65      |
| 17  | 1                                | 48                               | female | 67  | 35.53      |
| 18  | 0                                | 756                              | female | 56  | 56.69      |
| 19  | 1                                | 229                              | male   | 63  | 24.98      |
| 20  | 0                                | 330                              | female | 64  | 46.73      |
| 21  | 0                                | 288                              | female | 69  | 37.48      |
| 22  | 0                                | 104                              | female | 32  | 22.35      |
| 23  | 0                                | 76                               | male   | 58  | 38.96      |
| 24  | 0                                | 72                               | male   | 66  | 71.46      |
| 25  | 0                                | 61                               | female | 56  | 36.17      |
| 26  | 1                                | 3313                             | male   | 56  | 101.27     |
| 27  | 0                                | 44                               | male   | 81  | 45.42      |
| 28  | 1                                | 379                              | male   | 58  | 22.60      |
| 29  | 1                                | 791                              | male   | 70  | 64.25      |
| 30  | 1                                | 381                              | female | 42  | 112.62     |
| 31  | 0                                | 874                              | male   | 57  | 66.91      |
| 32  | 1                                | 137                              | female | 69  | 33.47      |
| 33  | 0                                | 916                              | male   | 68  | 154.50     |
| 34  | 1                                | 255                              | female | 37  | 61.84      |
| 35  | 1                                | 598                              | male   | 73  | 15.86      |
| 36  | 1                                | 598                              | male   | 73  | 37.63      |
|   |   |   |   |   |   |
|---|---|---|---|---|---|
| 37 | 1 | 177 | female | 60 | 17.02 |
| 38 | 1 | 205 | female | 50 | 81.27 |
| 39 | 1 | 63 | male | 69 | 31.42 |
| 40 | 1 | 727 | female | 62 | 2.68 |
| 41 | 0 | 188 | female | 52 | 9.13 |
| 42 | 0 | 33 | male | 48 | 30.54 |
| 43 | 1 | 295 | male | 40 | 64.17 |
| 44 | 0 | 336 | female | 42 | 51.97 |
| 45 | 1 | 532 | female | 52 | 20.48 |
| 46 | 1 | 373 | female | 71 | 13.05 |
| 47 | 1 | 312 | male | 57 | 102.44 |
| 48 | 1 | 1629 | male | 78 | 24.04 |
| 49 | 1 | 838 | male | 59 | 16.18 |
| 50 | 1 | 687 | male | 60 | 40.86 |
| 51 | 1 | 657 | male | 60 | 59.25 |
| 52 | 1 | 425 | male | 54 | 31.85 |
| 53 | 1 | 2268 | female | 44 | 39.06 |
| 54 | 0 | 149 | female | 69 | 24.30 |
| 55 | 1 | 2360 | female | 58 | 17.91 |
| 56 |   |   | female | 71 | 107.83 |
| 57 |   |   | female | 71 | 29.54 |
| 58 |   |   | male | 58 | 5.64 |