**Table S2.** Total number of mutations in each CRC-CLM pairs.

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| SampleID | Case | Cluster | Ns-mutation | s- mutation | Stopgain | Stoploss | Splicingsite | FSdel | FSins | nFSdel | nFSins |
| 185 | CRC | N | 66 | 21 | 5 | 0 | 3 | 2 | 4 | 0 | 0 |
| CLM | 23 | 9 | 0 | 0 | 1 | 2 | 0 | 0 | 0 |
| 250\* | CRC | N | 62 | 27 | 7 | 0 | 2 | 1 | 3 | 0 | 0 |
| CLM | 482 | 369 | 12 | 0 | 5 | 4 | 8 | 3 | 7 |
| 262\* | CRC | N | 61 | 25 | 4 | 0 | 2 | 1 | 2 | 0 | 0 |
| CLM | 490 | 374 | 16 | 0 | 7 | 7 | 8 | 8 | 6 |
| 278 | CRC | Y | 48 | 16 | 1 | 0 | 4 | 3 | 0 | 0 | 0 |
| CLM | 42 | 15 | 2 | 1 | 3 | 2 | 0 | 0 | 0 |
| 353 | CRC | N | 32 | 24 | 1 | 0 | 1 | 4 | 3 | 1 | 0 |
| CLM | 42 | 27 | 2 | 0 | 1 | 1 | 3 | 1 | 0 |
| 381 | CRC | N | 11 | 3 | 0 | 0 | 0 | 0 | 2 | 0 | 0 |
| CLM | 52 | 19 | 7 | 0 | 1 | 4 | 0 | 1 | 0 |
| 413 | CRC | Y | 34 | 12 | 3 | 0 | 2 | 0 | 2 | 2 | 0 |
| CLM | 43 | 14 | 2 | 0 | 2 | 0 | 1 | 1 | 0 |
| 503 | CRC | Y | 39 | 12 | 2 | 0 | 1 | 2 | 4 | 0 | 0 |
| CLM | 45 | 13 | 5 | 0 | 0 | 1 | 1 | 0 | 0 |
| 509 | CRC | Y | 44 | 16 | 5 | 0 | 1 | 3 | 2 | 0 | 0 |
| CLM | 62 | 22 | 8 | 0 | 1 | 3 | 2 | 0 | 0 |
| 523 | CRC | Y | 53 | 30 | 8 | 0 | 1 | 7 | 0 | 1 | 0 |
| CLM | 61 | 25 | 7 | 0 | 0 | 7 | 0 | 1 | 0 |
| 526\* | CRC | N | 32 | 8 | 0 | 0 | 1 | 1 | 1 | 1 | 0 |
| CLM | 520 | 412 | 11 | 1 | 10 | 5 | 6 | 3 | 3 |
| 627 | CRC | Y | 26 | 14 | 3 | 0 | 0 | 0 | 1 | 0 | 0 |
| CLM | 20 | 12 | 3 | 0 | 1 | 0 | 2 | 1 | 0 |
| 707 | CRC | Y | 48 | 36 | 5 | 0 | 1 | 2 | 1 | 0 | 0 |
| CLM | 52 | 21 | 1 | 0 | 4 | 3 | 0 | 0 | 0 |
| 718 | CRC | Y | 33 | 18 | 2 | 0 | 0 | 1 | 1 | 2 | 1 |
| CLM | 43 | 18 | 2 | 0 | 2 | 2 | 0 | 2 | 0 |
| 721\* | CRC | N | 67 | 37 | 3 | 0 | 1 | 1 | 3 | 1 | 0 |
| CLM | 421 | 358 | 10 | 0 | 4 | 14 | 6 | 3 | 3 |

Cluster indicates hierarchical clustering results (Y: clustered, N: not clustered); Ns, nonsynonymous; s, synonymous; FS del, frame shift deletion; FS ins, frame shift insertion; nFS del, non-frame shift deletion; nFS ins, non-frame shift insertion.

\* Hyper-mutated sample ID in their colorectal liver metastasis.