**S2 Table** Genes mutated in HCT116 cell line

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Genes | Position | Nucleotide mutation | Amino Acid Change | COSMIC ID | Coverage | Variant Coverage | Variant frequency (%) |
| *ABL1* | 133738370 | A > G | Y257C | COSM1674905 | 1653 | 743 | 49.9 |  |
| *KRAS* | 25398281 | C > T | G13D | COSM532 | 1624 | 788 | 48.5 |  |
| *PIK3CA* | 178952085 | A > G | H1047R | COSM775 | 1065 | 555 | 52.1 |  |
| *SMO* | 128846374 | G > A | V404M | COSM13148 | 1340 | 641 | 47.8 |  |
| *EGFR*a | 55249063 | G > A | Synonymous | COSM1451600 | 670 | 669 | 99.9 |  |
| *FLT3*a | 28602367 | C > T | Synonymous  | COSM2070142 | 1505 | 815 | 54.2 |  |
| *HRAS*a | 534242 | A > G | Synonymous | COSM249860 | 815 | 815 | 100.0 |  |
| *KDR*a | 55946354 | G > T | Splice site | - | 1467 | 754 | 51.4 |  |
| *SMAD4*a | 48586344 | C > T | Splice site | - | 1966 | 948 | 48.2 |  |
| *SMARCB1*a | 24176287 | G > A | Splice site | COSM1090 | 772 | 419 | 54.3 |  |

aVariations not previously reported