|  |  |  |  |
| --- | --- | --- | --- |
| **Gene** | **Exon region** | **Gene** | **Exon region** |
| *AKT1* | 2 | *KRAS* | 2-4 |
| *BRAF* | 11, 15 | *KMT2D* | 11,48 |
| *CASP8* | 1-9 | *KMT2C* | 43 |
| *CDKN2A* | 1, 2 | *NF1* | 58 |
| *CTNNB1* |  2 | *NOTCH1* |  28 |
| *CYLD* |  17 | *NOTCH2* |  34 |
| *CUL3* |  8 | *NRAS* |  2-4 |
| *DDR2* |  15 | *NSD1* |  5,6,14,19 |
| *DDX3X* |  6 | *p53* | Full CDS1 |
| *FAT1* | Full CDS1  | *PTEN* |  1-7, 9 |
| *FBXW7* |  5, 8-11 | *RB1* |  8 |
| *FGFR2* |  7, 9, 12 | *SMAD4* |  8,11 |
| *FGFR3* |  7,9,14,16,18 | *TRAF3* |  Full CDS1 |
| *FLG* | 3 | *TPRX1* |  2 |
| *HRAS* | 2-4 | *UBR5* |  45 |
| *KIT* | 9,11,13,17,18 |  |  |

1CDS: Coding sequence

Supplementary Table 2: Custom-made NGS hot spot gene panel with genes and targeted exon regions.