**Table S3. aCGH validation of CNVs identified using WGS**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  | **WGS** |  | **aCGHa** |   |   |
| **Patient** | **Gene** | **Chr** | **Location** | alteration | CNV | alteration | CNV | P-valueb |
| 1 | *BRCA2* | 13 | 31842500 | loss | -0.914 | loss | -0.745581 | 0 |
| 1 | *MYC* | 8 | 128817000 | gain | 0.827 | gain | 0.845799 | 2.94E-272 |
| 1 | *TP53* | 17 | 7514500 | loss | -1.017 | loss | -0.774881 | 0 |
| 1 | *MDM2* | 12 | 67512500 | loss | -1.02 | loss | -0.759555 | 0 |
| 1 | *APC* | 5 | 112119000 | loss | -0.967 | loss | -0.795793 | 0 |
| 1 | *MAP2K4* | 17 | 11865500 | loss | -0.913 | loss | -0.774881 | 0 |
| 1 | *AKT2* | 19 | 45459000 | loss | -1.019 | loss | -0.789383 | 0 |
| 1 | *RB1* | 13 | 47947500 | loss | -1.004 | loss | -0.745581 | 0 |
| 1 | *PIK3R1* | 5 | 67558000 | loss | -0.836 | loss | -0.795793 | 0 |
| 1 | *MLLT3* | 9 | 20613000 | loss | -2.649 | loss | -0.860752 | 0 |
| 1 | *FGFR2* | 10 | 123248500 | loss | -0.862 | loss | -0.75481 | 0 |
| 1 | *ALK* | 2 | 29407000 | loss | -0.909 | loss | -0.760499 | 0 |
| 1 | *EML4* | 2 | 42384000 | loss | -0.951 | loss | -0.760499 | 0 |
| 1 | *HRAS* | 11 | 522500 | loss | -1.403 | loss | -0.765473 | 0 |
| 1 | *FHIT* | 3 | 60402500 | loss | -0.988 | loss | -1.818803 | 3.808E-54 |
| 1 | *CDKN2A* | 9 | 21985000 | loss | -2.669 | loss | -2.483713 | 0 |
| 2 | *CBLB* | 3 | 106962500 | gain | 1.371 | gain | 1.271541 | 0 |
| 2 | *IL7R* | 5 | 35901300 | gain | 1.105 | gain | 0.835479 | 0 |
| 2 | *LIFR* | 5 | 38521600 | gain | 1.126 | gain | 0.835479 | 0 |
| 2 | *NDRG1* | 8 | 134319500 | gain | 0.817 | gain | 0.744292 | 0 |