### Supplementary Figure S3. Genomic breakpoints of fusions.

Genomic breakpoints of *NCOA4*-*RET*, *ATP1B1*-*PRKACA, and ATP1B1-NRG1* fusions in KRASwt patients. **A:** *RET* fusion in patient 17. The *RET* rearrangement in patient 17 displayed the canonical fusion architecture involving exons 1-9 of *NCOA4* and exons 12-20 of *RET*, which encode the protein kinase domain facilitating its unregulated activity. **B:** *PRKACA* fusion in the PDCM. **C:** *NRG1* fusion in TCGA-3A-A9I5. The fusion structure resembles that of patient 14 and only differs in the lack of a second breakpoint in *NRG1*.

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| --- | --- |
| A |  |
| B |  |
| C |  |