

**Supplemental Table S2.** Molecular Profile according to Bethesda Classification

| Group                        | Mutated gene                                 | All (n=278) | II (n=87) | III (n=102) | IV (n=13) | V (n=9)  | VI (n=48) |
|------------------------------|----------------------------------------------|-------------|-----------|-------------|-----------|----------|-----------|
| None                         | None <sup>a</sup>                            | 162 (58.3)  | 64 (7.4)  | 62 (60.8)   | 7 (53.8)  | 3 (33.3) | 12 (25.0) |
| NBNR                         | Total                                        | 32 (11.5)   | 10 (11.5) | 18 (17.6)   | 0         | 0        | 0         |
|                              | <i>EZH1</i>                                  | 12 (4.3)    | 4 (4.6)   | 7 (6.9)     | -         | -        | -         |
|                              | <i>DICER1</i>                                | 11 (4.0)    | 3 (3.4)   | 7 (6.9)     | -         | -        | -         |
|                              | <i>EIF1AX</i>                                | 7 (2.5)     | 3 (3.4)   | 3 (2.9)     | -         | -        | -         |
|                              | <i>PTEN</i>                                  | 2 (0.7)     | -         | 1 (1.0)     | -         | -        | -         |
| RAS                          | Total                                        | 35 (12.6)   | 12 (13.8) | 17 (16.7)   | 5 (38.5)  | 0        | 0         |
|                              | <i>NRAS</i>                                  | 24 (8.6)    | 10 (11.5) | 10 (9.8)    | 3 (2.3)   | -        | -         |
|                              | <i>KRAS</i>                                  | 7 (2.5)     | 1 (1.1)   | 5 (4.9)     | 1 (7.7)   | -        | -         |
|                              | <i>HRAS</i>                                  | 4 (1.4)     | 1 (1.1)   | 2 (2.0)     | 1 (7.7)   | -        | -         |
| <i>BRAF</i> <sup>V600E</sup> | <i>BRAF</i> <sup>V600E</sup>                 | 45 (16.2)   | 1 (1.1)   | 4 (3.9)     | 1 (7.7)   | 6 (66.7) | 33 (68.8) |
| Double mutation              | Total                                        | 4 (1.4)     | 0         | 1 (1.0)     | 0         | 0        | 3 (6.3)   |
|                              | <i>BRAF</i> <sup>V600E</sup> / <i>PIK3CA</i> | 1 (0.4)     | -         | -           | -         | -        | 1 (2.1)   |
|                              | <i>BRAF</i> <sup>V600E</sup> / <i>TP53</i>   | 1 (0.4)     | -         | -           | -         | -        | 1 (2.1)   |
|                              | <i>PIK3CA</i> / <i>TERT</i>                  | 1 (0.4)     | -         | -           | -         | -        | 1 (2.1)   |
|                              | <i>EZH1</i> / <i>TP53</i>                    | 1 (0.4)     | -         | 1 (1.0)     | -         | -        | -         |

Values are expressed as number (%).

NBNR, non-*BRAF*-non-*RAS*; *EZH1*, enhancer of zeste 1 polycomb repressive complex 2 subunit; *DICER1*, dicer 1, ribonuclease III; *EIF1AX*, eukaryotic translation initiation factor 1A X-linked; *PTEN*, phosphatase and tensin homolog; *PIK3CA*, phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha; *TP53*, tumor protein p53; *TERT*, telomerase reverse transcriptase.

<sup>a</sup>Currently negative by the 11-gene DNA panel test.