

## Appendix 1

Allele frequencies in tumor specimens of patient 15

Sample ID	Location of specimen	Type of specimen
A	L breast tissue	Core needle biopsy
B	L breast tissue	Residual disease
C	R breast tissue	In breast cancer recurrence
D	L axilla	Biopsy of axillary cancer recurrence

A. 151943 1479delAG (aka c.1360\_1361del (p.Ser454\*))

Predicted germline: 35% or 65% (first value is for the allele not present in tumor cells, second is for the allele present in the tumor cells)

Predicted somatic: 31%

Observed: 61.1% (run 1), 63.1% (run 2)

B. 160572 c.1361\_1402del

Predicted germline: 7% or 93%

Predicted somatic: 85%

Observed: 76.7%

C. 166299 c.1361\_1402del

Predicted germline: 7% or 93%

Predicted somatic: 86%

Observed: 77.1%

D. 166300 1479delAG

Predicted germline: 26% or 74%

Predicted somatic: 47%

Observed: 71%