

Supplemental Table S1. Specific Types of Detected Mutations

Group	Gene	Specific gene mutation	
NBNR	<i>EZH1</i>	EZH1:p.Q571R	
		EZH1:p.Y642F	
	<i>DICER1</i>	DICER1:p.D1709G	
		DICER1:p.D1810V	
		DICER1:p.E1705K	
		DICER1:p.E1813Q	
		DICER1:p.E1813K/DICER1:p.D1810V	
	<i>EIF1AX</i>	EIF1AX:p.G8E	
		EIF1AX:p.G9R	
		EIF1AX:p.G9V	
		EIF1AX:p.P2R	
	<i>PTEN</i>	PTEN:p.C136R	
		PTEN:p.R233Ter	
RAS	<i>NRAS</i>	NRAS:p.G13R	
		NRAS:p.Q61K	
		NRAS:p.Q61R	
		NRAS:p.Q61R/NRAS:p.Q61K	
	<i>KRAS</i>	KRAS:p.G12D	
		KRAS:p.G12V	
		KRAS:p.Q61R	
		KRAS:p.G12V/KRAS:p.G12F/ KRAS:p.G12C	
	<i>HRAS</i>	HRAS:p.Q61K	
		HRAS:p.Q61R	
	<i>BRAF^{V600E}</i>	<i>BRAF^{V600E}</i>	BRAF:p.V600E
			BRAF:p.V600E/BRAF:p.G469A (BRAF:p.G509A)
Double mutation	<i>BRAF^{V600E}/PIK3CA</i>	BRAF:p.V600E/PIK3CA:p.E542K	
	<i>BRAF^{V600E}/TP53</i>	BRAF:p.V600E/TP53:p.R110P	
	<i>PIK3CA/TERT</i>	PIK3CA:p.K111E/TERT C228T	
	<i>EZH1/TP53</i>	EZH1:p.Y642F/TP53:p.R248Q	

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.