

Supplementary Table 1. Mutation screening/validation results for A375 and three BRAF inhibitor resistant sub-lines, consensus denotes according to database sequence

Genes	A375parental	A375PR1	A375VR3	A375VR4
NRAS	consensus	consensus	consensus	consensus
KRAS	consensus	consensus	consensus	consensus
RRAS g.49635672G>A; g. 49636788G>A; g.49636811G>A; NM_006270:c.C333T: p.111N>N g.49636835C>T	all four variants (heterozygous)	all four variants (heterozygous)	all four variants (heterozygous)	all four variants (heterozygous)
BRAF g.171429T>A:p.V600E	p.V600E	p.V600E	p.V600E	p.V600E
RAC1 g.6387309C>T, g.6392059C>T	g.6387309CC>TT g.6392059CC>TT	g.6387309CC>TT g.6392059CC>TT	g.6387309CC>TT g.6392059CC>TT	g.6387309CC>TT g.6392059CC>TT
MET (exons 1-3, 16-20)	consensus	consensus	consensus	consensus
PTEN (exon 1, exons 3-6, exons 10-13)	consensus	consensus	consensus	Consensus