Patient #	Combination	Therapy	Best response by RECIST	Duration of treatment	Resistance mechanism
1	RAF/EGFR	Encorafenib +	+3%	4.5 months	KRAS
		cetuximab			amplification
	(prior RAF/MEK)	(prior dabrafenib	(-15%)	(7.3 months)	
		+ trametinib)			
2	RAF/EGFR	Dabrafenib +	-24%	4.8 months	BRAF
		panitumumab			amplification
3	RAF/MEK	Dabrafenib +	-34%	5.5 months	MEK1 F53L
		trametinib			(ARAF Q489L*)

Table S1: Patient characteristics and MAPK pathway reactivating resistance mechanisms of *BRAF*-mutant CRC patients with clinical acquired resistance to **RAF/EGFR or RAF/MEK inhibitor combinations.** Best response by RECIST indicates maximum reduction in cumulative tumor diameter achieved by RECIST criteria. (* patient #3 had an ARAF Q489L mutation identified in the post-progression biopsy, but validation studies failed to show a clear role for this mutation in promoting resistance)

Table S2: Summary of variant calls from WES analysis of matched pre-treatmentand post-progression biopsies.Table provided as excel file.