

**Supplementary Table 2** GSEA detailed scores for Reactome Apoptosis with Colo741-KRas2 microarray data using control vs. G12D mutation.

Probe	Description	Rank in gene list	Rank Metric Score	Running ES	Core Enrichment
842	CASP9	7	0.91302	-0.0378	No
572	BAD	16	0.46268	-0.1197	No
27113	BBC3	24	0.22161	-0.2035	No
581	BAX	27	0.17381	-0.2201	No
598	BCL2L1	32	0.1441	-0.2669	No
355	FAS	35	0.10622	-0.288	No
10018	BCL2L11	37	0.05777	-0.2982	No
999	CDH1	47	-0.10412	-0.418	No
596	BCL2	56	-0.28599	-0.5117	No
331	XIAP	80	-3.39107	-0.6099	Yes
5599	MAPK8	81	-3.75561	-0.36	Yes
5366	PMAIP1	82	-5.4093	8.15E-09	Yes

**Supplementary Table 3** GSEA results on Colo741-KRas2 data using control vs. G12D mutation.

Gene Set	NES	NOM p-val	FDR q-v	FWER p-v
REACTOME_APOPTOSIS	-1.68	0.000	0.188	0.144
REACTOME_INTRINSIC_PATHWAY_FOR_APOPTOSIS	-1.62	0.000	0.276	0.373
PUJANA_BRCA1_PCC_NETWORK	-1.59	0.006	0.322	0.561
REACTOME_ACTIVATION_OF_BH3_ONLY_PROTEINS	-1.58	0.007	0.328	0.676
KRIGE_RESPONSE_TO_TOSEDOSTAT_6HR_UP	-1.56	0.012	0.377	0.802