Description of Additional Supplementary Files

File Name: Supplementary Data 1

Description: **SMARCA4 variants in the FoundationCORE® database.** SMARCA4 short variants, copy number alterations and rearrangements detected from 9,434 patients with at least 1 SMARCA4 alteration (n=10,562 SMARCA4 variants).

File Name: Supplementary Data 2

Description: Summary of total samples and SMARCA4 variants separated by cancer type. The disease ontology of the total number of samples profiled, those with at least one SMARCA4 variant and those with SMARCA4 variants that could be assessed for zygosity.

File Name: Supplementary Data 3

Description: **SMARCA4 variants in human tumor-derived cell lines.** SMARCA4 variants identified by exome-sequencing in human tumor-derived cell lines.

File Name: Supplementary Data 4

Description: **qRT-PCR and ChIP reagents used for all experiments.** Taqman expression assays and sequences for qChIP primers.