Description of Additional Supplementary Files

File Name: Supplementary Data 1 Description: variant calls

File Name: Supplementary Data 2 Description: Survival analyses among patients with gene-level or pathwaylevel somatic mutations by hypermutation status.

File Name: Supplementary Data 3 Description: Distribution of somatic mutated genes and pathways by tumor site, adjusted for MSI status and mutation burden.

File Name: Supplementary Data 4 Description: Distribution of somatic mutated genes and pathways by tumor stage, adjusted for MSI status and mutation burden.

File Name: Supplementary Data 5 Description: Distribution of somatic mutated genes and pathways by sex, adjusted for MSI status and mutation burden.

File Name: Supplementary Data 6 Description: Clinical Attributes.