## Descriptions of Additional Supplementary Files

Supplementary Data 1
Description: Sample information
Supplementary Data 2
Description: Sample-level exome coverage statistics
Supplementary Data 3
Description: Somatic mutations in paired GBC samples
Supplementary Data 4
Description: Putative somatic mutations in GBC samples without matched normal tissue
Supplementary Data 5
Description: Somatic mutations in Cholecystitis, Gall stone and polyp samples
Supplementary Data 6
Description: Mutations in GBC cell lines
Supplementary Data 7
Description: Disease relevant germline mutations in GBC patients
Supplementary Data 8
Description: Hotspot mutations in GBCs
Supplementary Data 9
Description: Hotspots identified through meta-analysis
Supplementary Data 10
Description: Cancer specific neoantigens predicted in GBCs
Supplementary Data 11
Description: TCR clonal expansion assessment
Supplementary Data 12
Description: TCR clonal expansion assessment
Supplementary Data 13
Description: Tumor inflitrating lymphocytic cells