



**S4 Fig.** Kaplan-Meier analysis according to Jab1 (COPS5) alteration in biliary tract cancer cohort of The Cancer Genome Atlas dataset. Kaplan-Meier analysis demonstrated that patients with altered Jab1 tended to have better overall survival compared with those without Jab1 alteration ( $p=0.052$ ) (Figure from cbiportal.org, accessed on Aug. 6, 2017).