File Name: Supplementary Data 1

Description: Evolutionary steps inferred by ASCETIC in Acute Myeloid Leukemia (Tapestri).

File Name: Supplementary Data 2

Description: The number at risk for all the survival Kaplan-Meier curves presented in the

study.

File Name: Supplementary Data 3

Description: Evolutionary steps inferred by ASCETIC in Non-small cell lung cancer

(TRACERx).

File Name: Supplementary Data 4

Description: Evolutionary steps inferred by ASCETIC in the Pan-Cancer Atlas dataset.

File Name: Supplementary Data 5

Description: Evolutionary steps inferred by ASCETIC in the MSK-MET dataset.

File Name: Supplementary Data 6

Description: Shared evolutionary steps at the pan-cancer level in both the Pan-Cancer Atlas

dataset and MSK-MET dataset.