

1 **Supplemental Table 1: Summary of clinical features of primary B-ALL specimens**

Sample	Sex	Age	Type	Cytogenetics	Somatic Mutation
SU215	Female	28	Ph+ B-ALL	t(9;22)(q34;q11.2)/Complex	IKZF1,PAX5, TCF3, EBF1
SU453	Female	47	Ph+ B-ALL	t(9;22)(q34;q11.2)	None detected
SU536	Male	66	Ph+ B-ALL	t(9;22)	None detected
SU893	Female	76	Ph+ B-ALL	t(9;22)(q34;q11.2)	Not done

2