Supplementary Figure 1
Variant calling analysis pipeline for exome sequencing and capture sequencing with PSTS probes.
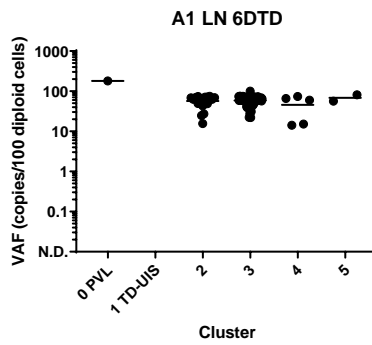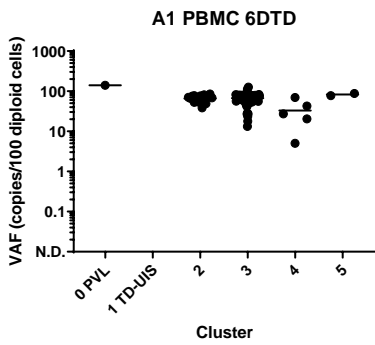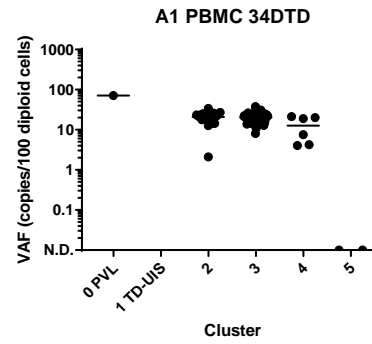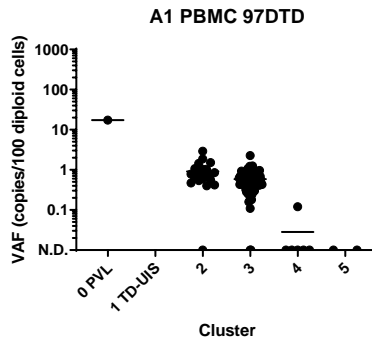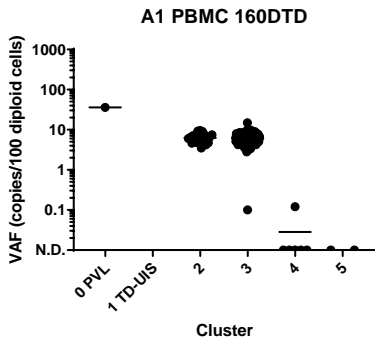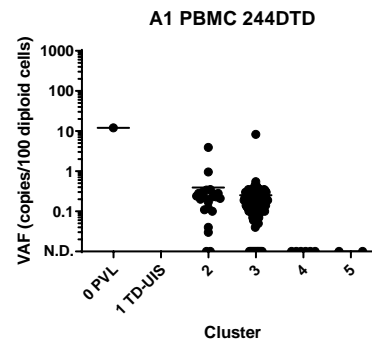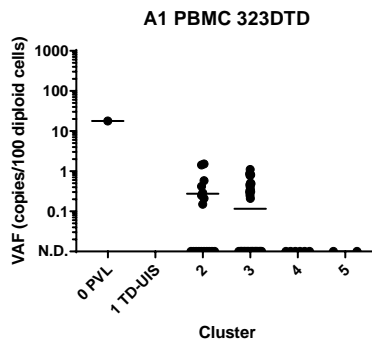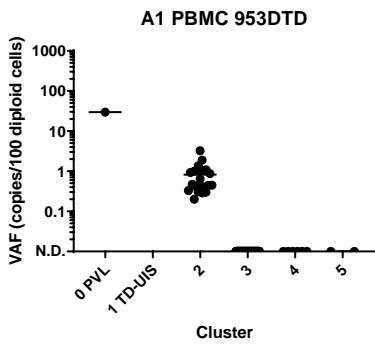
Driver	Cluster
HTLV-1 all UIS	0
Tumor-dominant UIS	1
CCR4	2
NOTCH1	3
PRKCB	3
TP53	3

Supplementary information 2A.

VAF of somatic mutations over time in PBMC and lymph node (LN) genomic DNA in patient A1. Mutations were placed into clusters on the basis of VAF at each time point. The inset table indicates the cluster in which putative driver events were placed. DTD=Days to diagnosis, UIS= Unique integration site, TD-UIS= Tumor-dominant UIS.
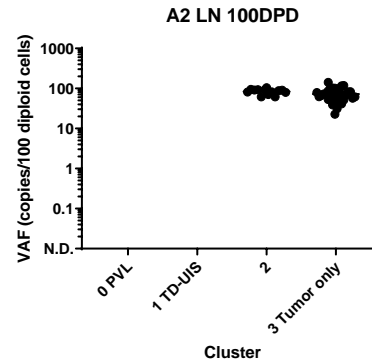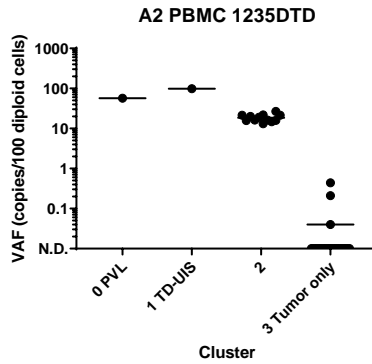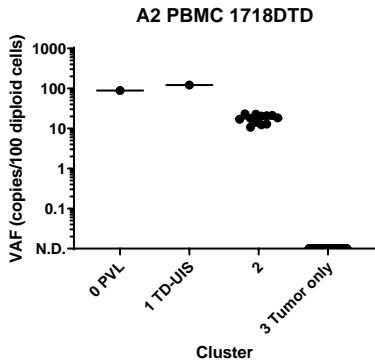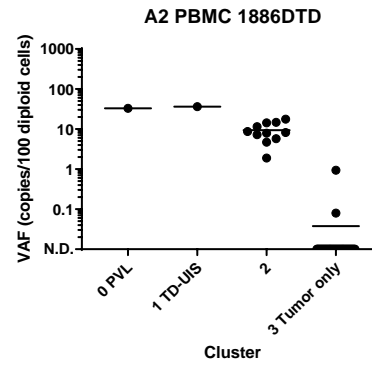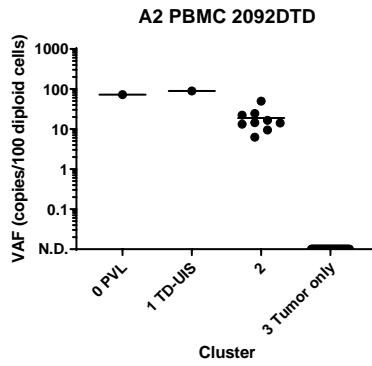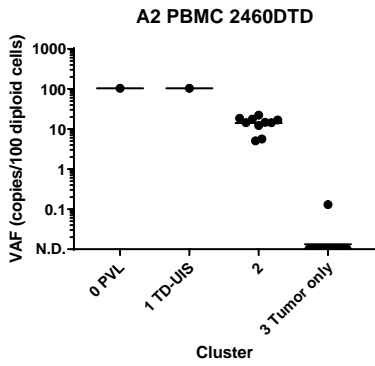
Driver	Cluster
HTLV-1 all UIS	0
Tumor-dominant UIS	1
FYN	2
NOXA1	Tumor only
ZFP36L2	Tumor only
ARID2	Tumor only

Supplementary information 2B.
VAF of somatic mutations over time in PBMC and lymph node (LN) genomic DNA in patient A2.
Mutations were placed into clusters on the basis of VAF at each time point. The inset table indicates
the cluster in which putative driver events were placed. DTD=Days to diagnosis, DPD= Days post
diagnosis, UIS= Unique integration site, TD-UIS= Tumor-dominant UIS.
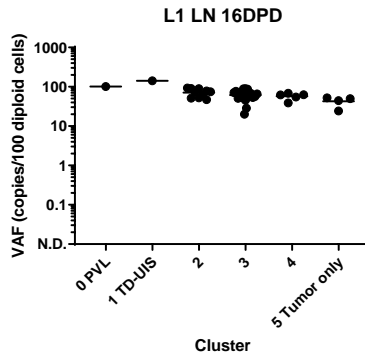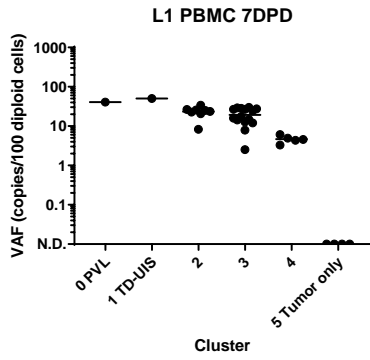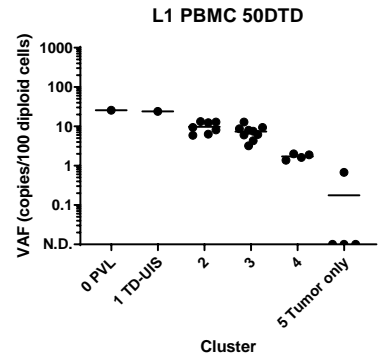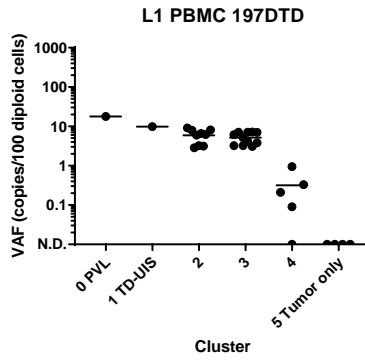
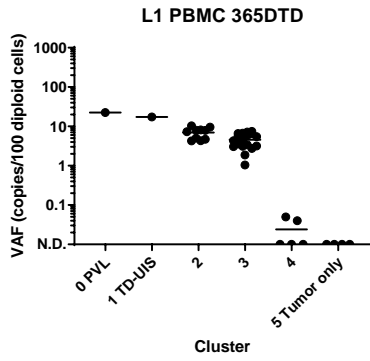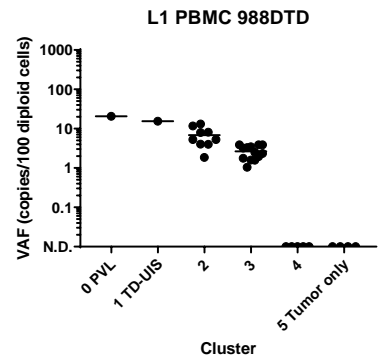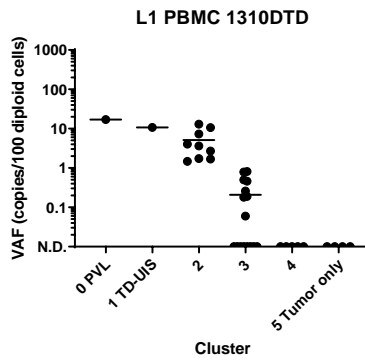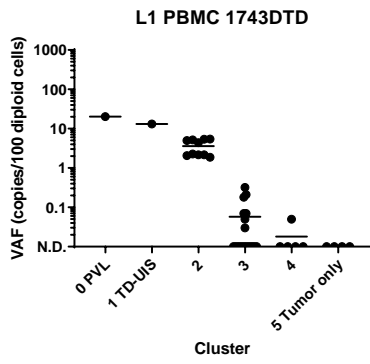| Driver	Cluster
HTLV-1 all UIS	0
Tumor-dominant UIS	1
SKI	2
PLCG1	3
TP53	3
VAV1	3

Supplementary information 2C.
VAF of somatic mutations over time in PBMC and lymph node (LN) genomic DNA in patient L1. Mutations were placed into clusters on th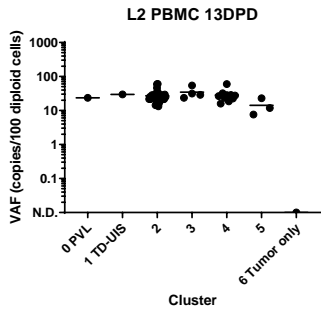e basis of VAF at each time point. The inset table indicates the cluster in which putative driver events were placed. DTD=Days to diagnosis, DPD= Days post diagnosis, UIS= Unique integration site, TD-UIS= Tumor-dominant UIS.
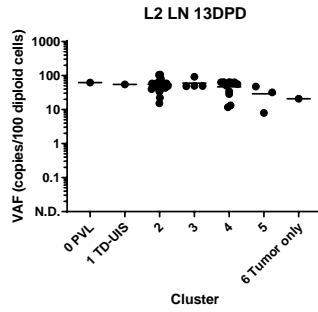
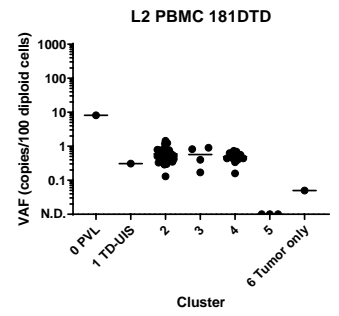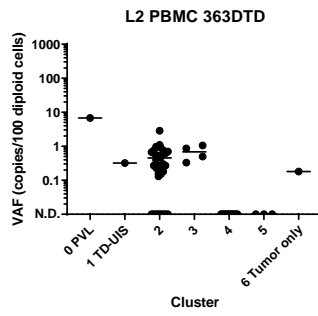| Driver	Cluster
HTLV-1 all UIS	0
Tumor-dominant UIS	1
NOTCH1	2
TP53	2
TP53	2
POT1	2
CCR4	2
PIK3CD	2
GATA3	4
PLCG1	Tumor only

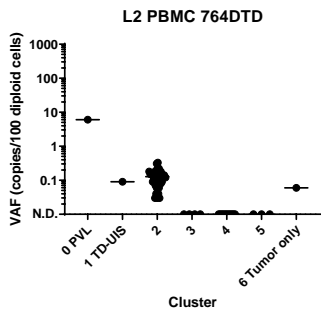**Supplementary information 2D.**

VAF of somatic mutations over time in PBMC and lymph node (LN) genomic DNA in patient L2.
Mutations were placed into clusters on the basis of VAF at each time point. The inset table indicates
the cluster in which putative driver events were placed. DTD=Days to diagnosis, DPD= Days post
diagnosis, UIS= Unique integration site, TD-UIS= Tumor-dominant UIS.
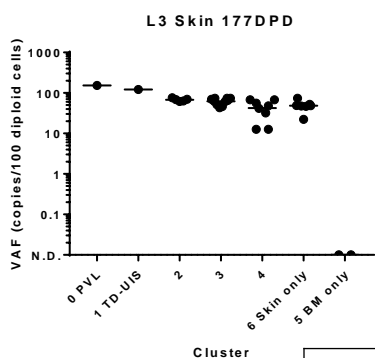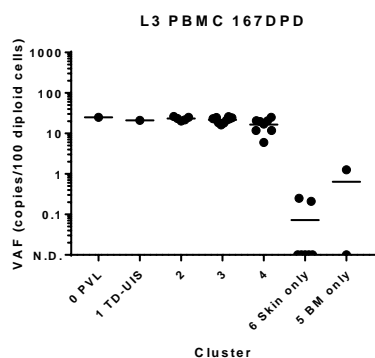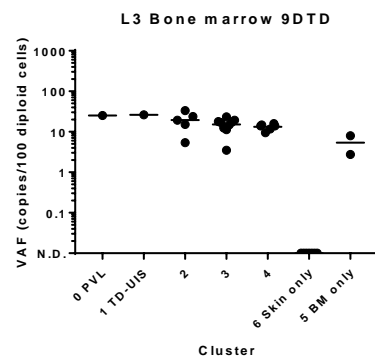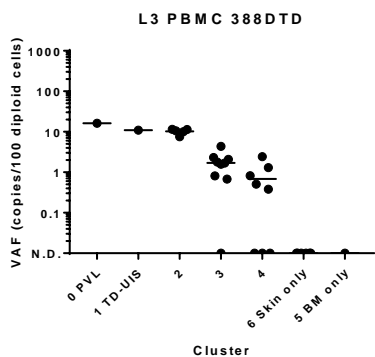
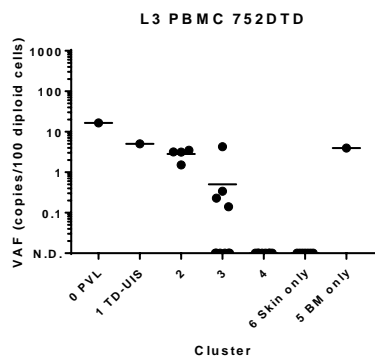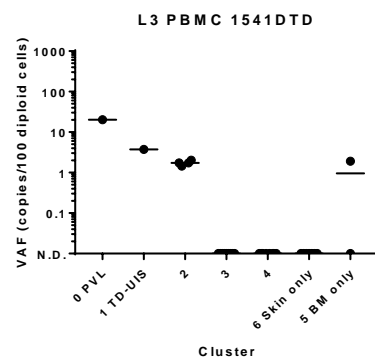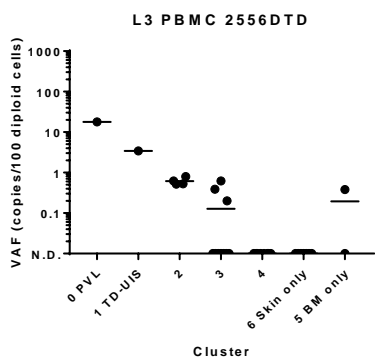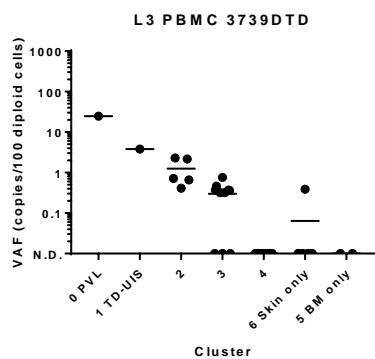| Driver	Cluster
HTLV-1 all UIS	0
Tumor-dominant UIS	1
CCR4	2
PRKCB	3
EP300	3
PLCG1	4
PLCG1	4
CARD11	BM only
PRKCB	BM only

Supplementary information 2E.

VAF of somatic mutations over time in PBMC, Skin (Tumor tissue) and Bone Marrow (BM) genomic DNA in patient L3. Mutations were placed into clusters on the basis of VAF at each time point. The inset table indicates the cluster in which putative driver events were placed. DTD=Days to diagnosis, DPD= Days post diagnosis, UIS= Unique integration site, TD-UIS= Tumor-dominant UIS.
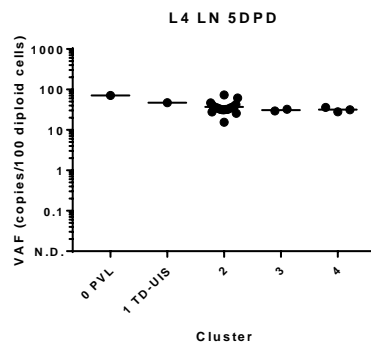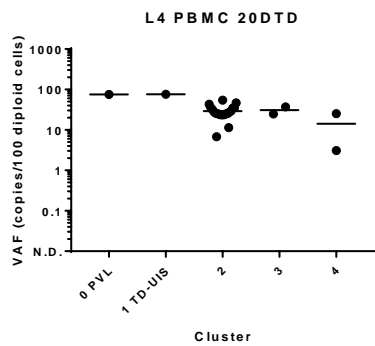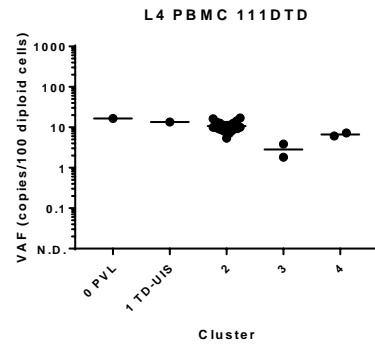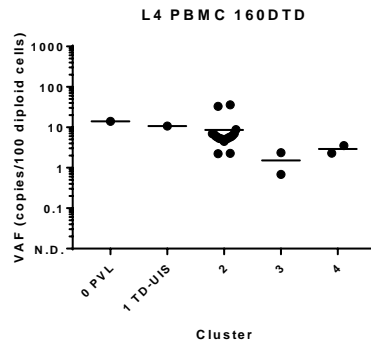
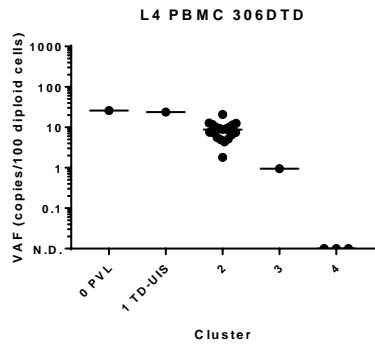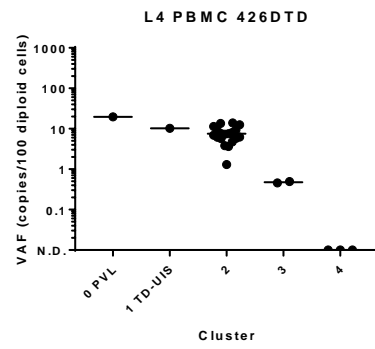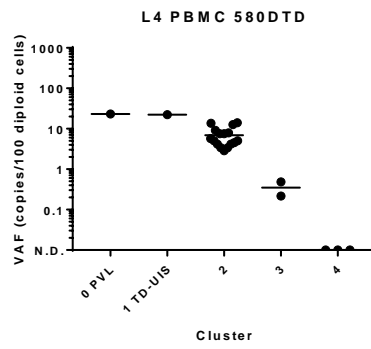| Driver	Cluster
HTLV-1 all UIS	0
Tumor-dominant UIS	1
CARD11	2
PRKCB	2
CSNK2B	2
NOTCH1	2

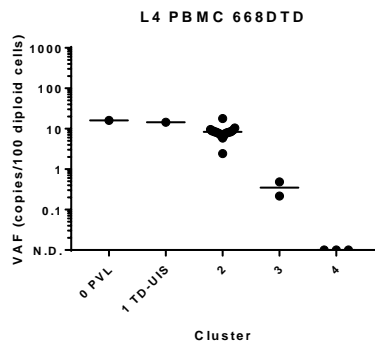## Supplementary information 2F.

VAF of somatic mutations over time in PBMC and lymph node (LN) genomic DNA in patient L4.
Mutations were placed into clusters on the basis of VAF at each time point. The inset table indicates the
cluster in which putative driver events were placed. DTD=Days to diagnosis, DPD= Days post diagnosis,
UIS= Unique integration site, TD-UIS= Tumor-dominant UIS.