Fig. 3: J-Gene Clustering in Latent Space
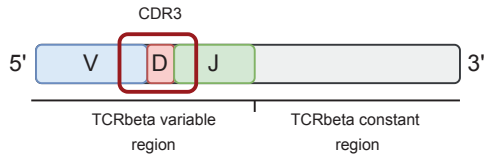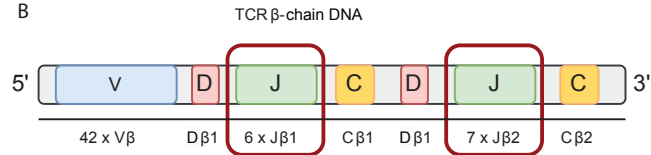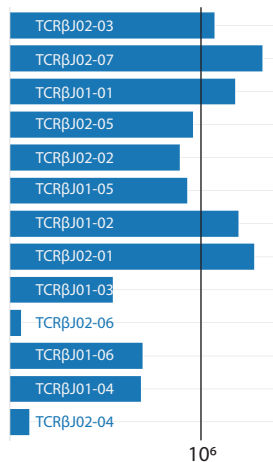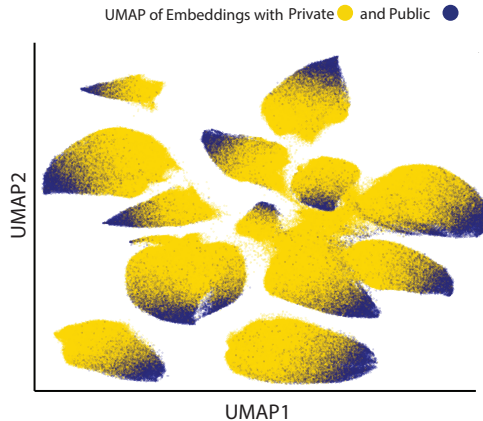

A

CDR3

5' | V | D | J | | 3'

TCRbeta variable region — TCRbeta constant region

B

TCR β-chain DNA

5' | V | D | J | C | D | J | C | 3'

42 x Vβ | Dβ1 | 6 x Jβ1 | Cβ1 | Dβ1 | 7 x Jβ2 | Cβ2

C

- TCRβJ02-03
- TCRβJ02-07
- TCRβJ01-01
- TCRβJ02-05
- TCRβJ02-02
- TCRβJ01-05
- TCRβJ01-02
- TCRβJ02-01
- TCRβJ01-03
- TCRβJ02-06
- TCRβJ01-06
- TCRβJ01-04
- TCRβJ02-04

10^6

D

UMAP of Embeddings with Private ● and Public ●

UMAP2 — UMAP1

E

UMAP of Embeddings Colored by J Gene

TCRBJ01-01
TCRBJ01-02
TCRBJ01-03
TCRBJ01-04
TCRBJ01-05
TCRBJ01-06
TCRBJ02-01
TCRBJ02-02
TCRBJ02-03
TCRBJ02-04
TCRBJ02-05
TCRBJ02-06
TCRBJ02-07

UMAP2 — UMAP1