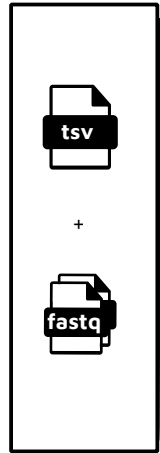




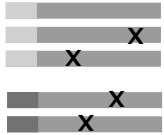
**SINGLE CELL /
BULK**

Raw data

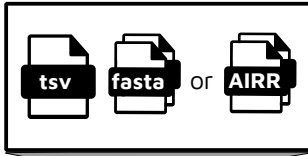


**QC and sequence
assembly**

fastp
pRESTO
cellranger vdj



Assembled data



**V(D)J assignment
and filtering**

Change-O
IgBLAST
EnchantR



**Clonal analysis
and germlines**

SCOPer
SHazaM
EnchantR



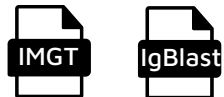
**Lineage
reconstruction**

Dowser
EnchantR



**Repertoire analysis
and QC report**

EnchantR
MultiQC
Alakazam



Reference data (optional)