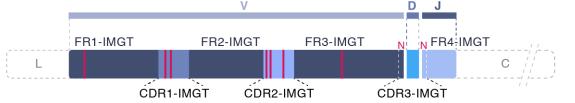
## NGS based analysis of the expressed repertoires of the adaptive immune responses **IMGT/HighV-QUEST solution** Biocuration V(D)J analysis

### Immunoglobulin (IG) and T cell receptor (TR) V-(D)-J analysis



V,D,J gene and allele identification

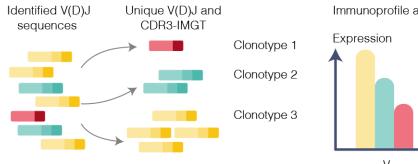


FR-IMGT and CDR-IMGT determination and delimitation

Analysis of the junction, N-diversity and somatic hypermutations (for IG)

#### Clonotype analysis

Assessment of clonotype diversity and expression



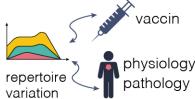
# Expression V D Sequence type

#### **Major applications**

#### **Basic research**



IG & TR repertoire analysis in human and vertebrates



#### Clinical research

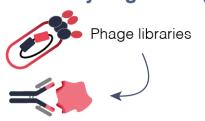


Clonality assessment MRD detection



Prognostics Diagnostics

#### **Antibody engineering**



Discovery of novel antibody specificities for diagnostics and therapy