

Fred Alt - Mechanisms & Control of VDJ Recombination

Two general types of activities required

- Lymphocyte specific (RAG-1, RAG-2, TDT)
- Generally-expressed (Ku-80, DNA-PK, XRCC4)

VDJ Recombinase

- recognizes two specific motifs

RAG1 + RAG2

- expressed only in progenitor lymphocytes
- reqd. for VDJ recombination
- HO in mouse

- mouse is SCID (severe combined immune deficiency) but not other problems

