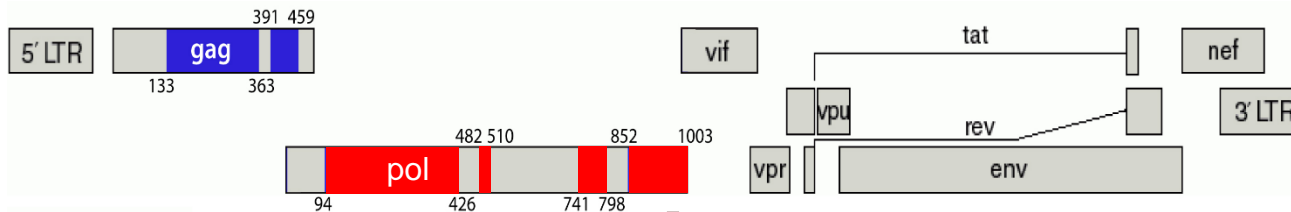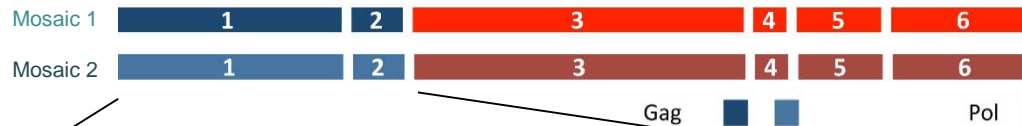# 6 highly functionally conserved regions

Computed into bi-valent mosaic (always used together)

Differ in 10% aa

Gag 1 (Mosaic 1)

PIVQNLQGQMVHQAISPRTLNAWVKVIEEKAFSPEVIPMFTALSEGA**TPQDLNTML**NTVGGHQAAMQMLKDTINEEAAEW
DRVHPVHAGPIAPGQMREPRGSDIAGTTSNLQEQIGWMTSNPPIPVGDIYKRWIILGLNKIVRMYSPVSILDIRQGPKEP
FRDYVDRFFKTLRAEQATQEVKNWMTDTLLVQNANPDCKTILRALGPGATLEEMMTACQGVGGPGHKARVL

_TL9_

Gag 1 (Mosaic 2)

PIVQNAQGQMVHQALSPRTLNAWVKVVEEKAFSPEVIPMFSALSEGATPQDLNMMLNIVGGHQAA**MQMLKETI**NEEAAEW
DRLHPVHAGPIPPGQMREPRGSDIAGTTSTLQEQIGWMTNNPPIPVGEIYKRWIIMGLNKIV**RMYSPTSI**LDIKQGPKEP
FRDYVDRFYKTLRAEQASQEVKN**WMTETLLV**QNA**NPDCKTILKAL**GPA**ATLEEMMTA**CQGVGGPSHKARVL

_MI8_ _RI8_ _WV8_ _NL11_ _AA9_

Gag 2 (Mosaic 1)

KCFNCGKEG**HIAKNCRAPR**KRGCWKCGREGHQMKDCNERQANFLGKIWPSHKGRPGNFLQSRPEPTAPP

_HR10_

Gag 2 (Mosaic 2)

KCFNCGKEGHLARNCRAPRKKGCWKCGKEGHQMKDC**TERQANFL**GKIWPSNKGRPGNFPQSRPEPSAPP

_TL8_