(a)

```
RA1 / 1-32  YTCGYCKKEFRSAQGLGGHMNIHRLDRARLIH
            |||..||.|||||||.|||||||.|| |||||
SUP / 6-37  YTCSFCKREFRSAQALGGHMNVHRRDRARLRL
```

(b)

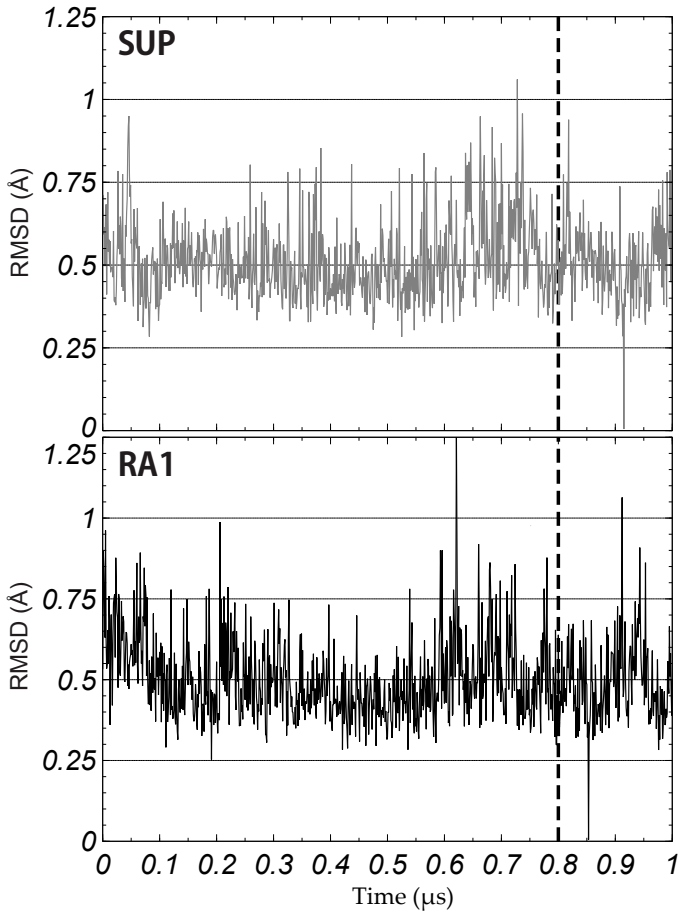

Figure S11. Zinc finger dynamic simulation. (a) Local sequence alignment of RA1 and SUP zinc finger domain as determined by Smith-Watermann algorithm (residue identity 75%). (b) Time evolution of the RMSD of the backbone atoms of the RA1 (above) and SUP (bellow) amino acid sequences in the simulated interval 0.0 to 1.0 μs. The structure with the smallest RMSD in the interval 0.0 to 1.0 μs of each simulation has been used as reference for fitting the structures of each sequence. The vertical gray dashed line at 0.8 μs marks the time that has been assumed as the beginnng of the thermodynamic equilibrium interval for properties calculations.