A

Domain 1 alignment:

```
SEQ:     MKHLISMKDIGKEEILEILDEARKMEELLNTKRPLKLLEGKILATVFYEPSTRTRLSFETAMKRLGGEVITMTDLKSSSVAKGESLIDTIRVISGYAD
STR:     MKHLTTMSELSTEEIKDLLQTAQELKSGKTDNQ----LTGKFAANLFFEPSTRTRFSFEVAEKKLGMNVLNL-DGTSTSVQKGETLYDTIRTLESIGV
SS:      .bBBBb....aaaAAAAAAAAAAAaaa......----..bbBBBBBbb...aaaAAAAAAaaa..bBBBBBB-.............aaaAAAaaa.bb

MERGE:   mkhlISmKDiGKeeiLEIlDEaRKMEELLNTKRXXXXlEgkILaTVfYepstrtrLsfeTaMkRlgGEvITMXdLKsTsvAkgeSlIdtirVISGYAD
COMP:    mkhlISmKDiGKeeiLEIlDEaRKMEELLNTKRlEgkILaTVfYepstrtrLsfeTaMkRlgGEvITMdLKTsvAkgeSlIdtirVIsGYAD

41% Identity, 100% Occupancy
```

Threshold: 25% Identity, 75% Occupancy over structural domain

```
FINAL:   mkhlISmKDiGKeeiLEIlDEaRKMEELLNTKRlEgkILaTVfYepstrtrLsfeTaMkRlgGEvITMdLKTsvAkgeSlIdtirVIsGYAdII
```

B

Domain 2 alignment:

```
SEQ:     NVEMYFVSPKELRLPKDIIEDLKAKNIKFYEKESLDDLDDDIDVLYVTRIQKERFPDPNEYEKVKGSYKIKREYVEGKK--FIIMHPLPRVDEIDYD
STR:     ARVLFSGPS-----------EWQDEENTFGTYVSMDEAVESSDVVMLLRIQNERHQSAVSQEGYLNKYGLTVERAERMKRHAIIMHPAPVNRGVEID
SS:      bBBBbbb..-----------........bbbbbb........bBBBBBbb...........aaaaaa.............bBBBBb..........

MERGE:   NVEMYFVSPXXXXXXXXXXXDLKAKNIKfYEKEsLdDLDDDIdvLYVTriqKerFPDPNEYeKVKGSyKIKReYVeGKkXXFiimhpLpRVDEIDYd
COMP:    NVEMYFVSPDLKAKNIKfYEKEsLdDLDDDIdvLYVTriqKerFPDPNEYeKVKGSyKIKReYVeGKkXXFiimhpLpRVDEIDYD

20% Identity, 97% Occupancy
```

Threshold: 25% Identity, 75% Occupancy over structural domain

```
FINAL:   XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```