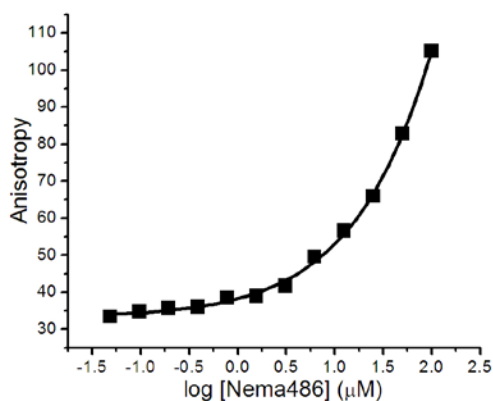


Supplementary data:

### Crystal structure of menin reveals the binding site for Mixed Lineage Leukemia (MLL) protein

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Figure S1. MLL fragment interacts with *Nematostella* menin. Fluorescence polarization experiment demonstrating the interaction of MBM1 motif derived from MLL (residues 4-15) and *Nematostella* menin (486 residue long fragment with deletion of C-terminal unstructured region). The estimated  $K_d$  for the interaction is  $\sim 100\mu\text{M}$ . Because of relatively weak interaction the full saturation was not achieved.



Supplementary Table 1. Thermodynamic stabilities of menin mutants determined employing thermal shift assay.

Menin mutant	$T_m$
WT	$36 \pm 0.1$
S155K	$38 \pm 0.6$
M278K	$35.2 \pm 0.1$
Y323K	$37.5 \pm 0.1$
E359K	$36.1 \pm 0.1$
E363K	$39.2 \pm 0.8$