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Reporting Summary

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Scipion 1.1, MotionCor2, CTFFIND 4.1, cryoSPARC v2, Relion2.1, cisTEM; HKL, SHELX, PHENIX, ARP/wARP, COOT; NMRpipe, CARA, ARIA,

Data

Data analysis

Policy information about availability of data

All manuscripts must include a data availability statement. This statement should provide the following information, where applicable:

- Accession codes, unique identifiers, or web links for publicly available datasets

TALOS+; SEDFIT, SEDPHAT

- A list of figures that have associated raw data
- A description of any restrictions on data availability

The structural data that support the findings of this study have been deposited in the Protein Data Bank, BioMagResBank and EM Data Bank. The coordinates for HML2 CArec-NTD and HML2 CArec-CTD have the PDB accession numbers 6SA9 and 6SAI respectively. Chemical shift assignments for HML2 CArec-CTD in the BioMagResBank have the accession number 34419. The coordinates for HML2 CArec T1, D5, D6 and T3 assemblies have PDB accession numbers 6SSJ, 6SSK, 6SSL and 6SSM and the EM maps have EMDB entry numbers EMD-10295, EMD-10296, EMD-10297 and EMD-10298 respectively.

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