**Figure 4 – source data 1.** Data collection and refinement statistics and crystallization conditions.

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| **Data collection** |
| Crystal of CRM1\* K579A -Ran-RanBP1 bound to: | Hxk2pep | DEAF1pep |
| Space group | P43212 |
| Cell dimensions a=b, c (Å) | 106.71, 304.79 | 106.04, 304.21 |
| Resolution range (Å) | 50.00 – 2.34 (2.38 – 2.34) | 50.00 – 2.15 (2.19 – 2.15) |
| Multiplicity | 7.2 (7.2) | 13.7 (13.8) |
| Data completeness (%) | 100 (100) | 100 (100) |
| *R*merge /*R*pim (%) | 10.5 (>100) / 4.2 (51.9) | 9.0 (>100) / 2.5 (54.3) |
| I/σ(I) | 18.9 (1.4) | 32.2 (1.5) |
| CC1/2 (last resolution shell)a | 0.511 | 0.526 |
| **Refinement statistics** |
| Resolution range (Å) | 47.7 – 2.34 (2.40 – 2.34) | 40.2 – 2.15 (2.21 – 2.15) |
| No. of reflections *R*work/Rfree | 68199/1999 (1714/52) | 87729/2000 (1957/45) |
| Data completeness (%) | 90.89 (34.0) | 92.34 (30.0) |
| Atoms (protein/ions/water) | 10973/57/471 | 11042/51/720 |
| *R*work/*R*free (%) | 18.7/22.7 (24.8/24.8) | 18.6/22.6 (25.9/35.2) |
| R.m.s.d. Bond length (Å)/ angle (°) | 0.003/0.468 | 0.002/0.515 |
| Mean B-value (Å2)bProteinLigands and ions/waterNES peptide/ΦsGroove lining residues | 45.240.8107.8/97.063.1 | 35.831.789.5/83.255.5 |
| Ramachandran plot favored /disallowed (%)c (chain and residue#) | 97.76/0.00 | 97.01/0.07(C205) |
| ML coordinate error | 0.27 | 0.21 |
| Missing residuesChain A: RanChain B: RanBP1Chain C: CRM1Chain D: NES peptide | A: 1-8; B: 62-64, 69-77, 201; C: 441-456, 1054-1058; D: 18,36 | A: 1-8,188, 189; B: 62-63, 69-78; C: 445-455, 1053-1058; D: 452, 453, 465-469 |
| PDB code | 5UWT | 5UWW |
| Peptide used | GGSY-18DVPKELMQQIENFEKIFTV36 | GGS-452SWLYLEEMVNSLLNTAQQ469 |
| Crystallization condition | 17% PEG3350, 100mM Bis-Tris pH 6.4, 200mM NH4NO3, 20mM HCl | 16% PEG3350, 100mM Bis-Tris pH 6.4, 200mM NH4NO3, 16mM HCl |

Data for the outermost shell are given in parentheses.

a Karplus PA & Diederichs K (2012) Linking crystallographic model and data quality. Science 336(6084):1030-1033.

b B-factors for the entire NES peptide, B-factors for only Φ residues of the NES peptides (as indicated in the figures) and B-factors for the 29 CRM1 residues that line the NES-binding groove are also reported.

c As defined by the validation suite MolProbity in PHENIX.