**Supplementary File 1: Molecular mass determination by lateral diffusion measurements.**

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| --- | --- | --- | --- |
| Protein molecule | Theoretical molecular mass [kDa] a | Diffusion coefficient *D* [m2s-1]b | Experimental molecular mass  [kDa]c |
| PLK4-PB3 | 9.6 | 1.13∙10-10 | 9.6 |
| PLK4-PB3/STIL-CC | 13.4 | 9.64∙10-11 | 15.3 |
| GB1d | 6.2 | 1.22∙10-10 | 7.6 |

a Calculated from the amino acid sequence for a protein monomer

b Determined by BPP-LED NMR experiments

c Calculated from the diffusion coefficient assuming spherical, rigid molecules

d Control protein: Immunoglobulin binding domain of streptococcal protein G (Gronenborn et al., 1991)