**Supplementary File 5. Summary of modelled residues for the different structures**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Structure | copy number | PP1 | Phactr1 | substrate |
| Phactr1/PP1(pH 8.5) | 1 | 7-299 | 513-580 |  |
| 2 | 7-299 | 513-580 |  |
| 3 | 7-299 | 516-580 |  |
| 4 | 7-299 | 512-580 |  |
| 5 | 7-299 | 516-580 |  |
| 6 | 7-299 | 512-580 |  |
| Phactr1/PP1(pH 5.25) | 1 | 7-299 | 512-576 |  |
| 2 | 7-299 | 512-575 |  |
| Phactr1/PP1-IRSp53 | 1 | 7-299 | 513-580 | 449-462 |
| 2 | 7-299 | 513-580 | 452-464 |
| Phactr1/PP1-spectrin-αII | 1 | 7-298 | 515-580 | 1028-1039 |
| 2 | 7-298 | 516-580 | 1027-1037 |
| Phactr1/PP1-IRSp53-S455E  | 1 | 7-299 | 513-580 | 449-462 |
| 2 | 7-299 | 513-580 | 449-464 |
| PP1-Phactr1(526-580) | 1 | 7-299 | 526-580 |  |
| 2 | 7-298 | 526-580 |  |
| 3 | 7-298 | 526-580 |  |
| 4 | 7-299 | 526-580 |  |
| 5 | 7-299 | 526-580 |  |
| 6 | 7-299 | 526-580 |  |