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|  | Spiral | Spiral Clam |
| **Data collection** Voltage (kv)DetectorElectron exposure (e-/Å2)Defocus range (µm)Pixel size (Å) | 300Gatan K2 Summit41.20.5 to 2.11.048 |
| **Data processing**Symmetry imposedFinal particle images (no.)Map resolution (Å)FSC thresholdMap sharpening B factor (Å2) | C1124,8913.50.143-69 | C123,0294.30.143-10 |
| **Model composition**Non-hydrogen atomsProtein residuesNucleic acid residues | 40200508878 | 24128553290 |
| **Validation**RMS Bond lengths (Å)RMS Bond angles (°)MolProbity scoreClashscoreRotamer outliers (%)Ramachandran Favored (%)Ramachandran Outliers (%)RNA average suiteness | 0.0132.21.76.531.596.50.180.560 | 0.0131.91.10.870.095.60.330.566 |