

Summary of integrative structure determination of Model of E. coli AtpF by in-cell photo-crosslinking MS and deep learning (PDB ID: 9A2Q, PDB-Dev ID: PDBDEV_00000175)

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| 1. Model Composition | |
| Entry composition | P0ABA0: Chain A (156 residues) |
| Datasets used for modeling | Crosslinking-MS data, Linker name and number of cross-links: L-Photo-Leucine, 3 cross-links |
| 2. Representation | |
| Resolution | Atomic |
| Number of rigid bodies , flexible units | 0, 1 |
| Flexible units | A: 1-156 |
| Structural coverage (rigid bodies) | 100% |
| 3. Restraints | |
| Physical principles | Information about physical principles was not provided |
| Experimental data | - 1 unique CrossLinkRestraint: L-Photo-Leucine, 3 cross-links |
| 4. Validation | |
| Number of ensembles | 0 |
| Number of models in ensembles | Not applicable |
| Number of deposited models | 10 |
| Model precision (uncertainty of models) | Model precision can not be calculated with one structure |
| Data quality | Data quality has not been assessed |

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| <p><i>Model quality: assessment of atomic segments</i></p> | <ul style="list-style-type: none"> - Model-1: Clashscore = 0.0, Number of Ramachandran outliers = 1, Number of sidechain outliers = 2 - Model-2: Clashscore = 0.0, Number of Ramachandran outliers = 1, Number of sidechain outliers = 2 - Model-3: Clashscore = 0.4, Number of Ramachandran outliers = 1, Number of sidechain outliers = 1 - Model-4: Clashscore = 0.0, Number of Ramachandran outliers = 1, Number of sidechain outliers = 0 - Model-5: Clashscore = 1.61, Number of Ramachandran outliers = 0, Number of sidechain outliers = 3 - Model-6: Clashscore = 0.81, Number of Ramachandran outliers = 0, Number of sidechain outliers = 1 - Model-7: Clashscore = 0.0, Number of Ramachandran outliers = 1, Number of sidechain outliers = 1 - Model-8: Clashscore = 0.4, Number of Ramachandran outliers = 0, Number of sidechain outliers = 2 - Model-9: Clashscore = 0.0, Number of Ramachandran outliers = 0, Number of sidechain outliers = 2 - Model-10: Clashscore = 1.61, Number of Ramachandran outliers = 0, Number of sidechain outliers = 0 |
| <p><i>Model quality: assessment of excluded volume</i></p> | <p>Not applicable</p> |
| <p><i>Fit to data used for modeling</i></p> | <p>Fit of model to information used to compute it has not been determined</p> |
| <p><i>Fit to data used for validation</i></p> | <p>Fit of model to information not used to compute it has not been determined</p> |
| <p>5. Methodology and Software</p> | |
| <p>1. <i>Method</i></p> | <p>AlphaLink</p> |
| <p><i>Name</i></p> | <p>AlphaLink with 10 msa subsamples</p> |
| <p><i>Number of computed models</i></p> | <p>10</p> |
| <p><i>Software</i></p> | <p>AlphaLink (version 1.0)</p> |