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| **Data collection**  |  |
| Microscope | FEI Titan Krios (at MSKCC)  |
| Camera | Gatan K2 Summit  |
| Magnification  | 22,500 x |
| Voltage (kV)  | 300 |
| Electron exposure (e–/Å2)  | 76 |
| Defocus range (μm)  | -0.9 to -2.5 |
| Pixel size (Å)  | 1.0884 |
| Software | Cryosparc 2, RELION 3.0 |
| Symmetry imposed  | C3 |
| Initial particle images (no.)  | 1,851,514 |
| Particles with 3 Fabs (no.) | 236,132 |
| Final particle images (no.)  | 85,614 |
| Map resolution (Å)  | 3.3 |
|  FSC threshold 0.143 |  |
| **Refinement**  |  |
| Software | Phenix 1.18 real-space-refine |
| Initial model used | PDB: 4HKR |
| Map sharpening *B* factor (Å2) | -100.5 |
| Model resolution (Å) | 3.6 |
|  FSC threshold | 0.5 |
| Model composition  |  |
|  Non-hydrogen atoms | 10,534 |
|  Protein residues | 1,437 |
|  Ligands | 1  |
| Mean *B* factor (Å2) |  |
|  Orai | 118.3 |
|  Fab | 79.3 |
| R.m.s. deviations |  |
|  Bond length (Å) | 0.004 |
|  Bond angles (°) | 0.559 |
| **Validation** |  |
|  Clashscore | 11 |
|  Rotamer outliers (%) | 0 |
| Ramachandran plot |  |
|  Favored (%) | 94.6 |
|  Allowed (%) | 5.4 |
|  Outliers (%) | 0 |