

- View Model building
- Model building
    - Imports
      - import volumes
      - import atomic structure
      - import sequence
    - Preprocess map
      - xmipp3 - create 3d mask
      - xmipp3 - local MonoRes
      - xmipp3 - localdeblur sharpening
      - xmipp3 - extract asymmetric unit
      - xmipp3 - deepEMhancer
    - Initial model
      - chimerax - model from template
    - Rigid fitting
      - phenix - dock in map
      - chimerax - rigid fit
    - Flexible fitting
      - ccp4 - coot refinement
      - ccp4 - refmac
      - phenix - real space refine
    - Validation
      - phenix - emringer
      - phenix - molprobity
      - phenix - validation\_cryoem
      - xmipp3 - validate fsc-q
    - Tools-Calculators
      - atomstructutils - operator
      - atomstructutils - convert\_sym
      - phenix - superpose pdbs
      - chimerax - operate
      - chimerax - restore session
      - chimerax - contacts
      - chimerax - map subtraction**
      - xmipp3 - map from atomic structure
    - Others
    - Exports
      - export to DB

### Protocol Run: ChimeraSubtractionMaps

**Protocol: chimerax - map subtraction** finished Cite Help

---

**Run**

**Run name** chimerax - map subtraction edit **Comment**  edit

**Run mode** ☒ Continue ☐ Restart ? **Host** localhost ?

**Use queue?** ☐ Yes ☒ No ?

**Wait for**  ?

---

**Expert Level** ☒ Normal ☐ Advanced

Input Help

---

**Input**

**Input 3D Map** pwm - import volumes HEMOGLOBIN.outputVolume ? trash eye

Select the operation to perform ☒ Subtraction ☐ Mask

Subtraction/Mask of ☐ 3D map ☒ atomic structure

Map resolution (Å): 3.2

**Atomic structure** phenix - real space refine whole.outputPdb ? trash eye

Select a specific chain? ☐ Yes ☒ No

Remove residues from the atomic structure? ☒ Yes ☐ No

**Chain** { "model": 0, "chain": "A", "residues": 142 } edit ?

**First residue to remove** { "residue": 22, "ALA" } edit ?

**Last residue to remove** { "residue": 28, "GLU" } edit ?

Apply symmetry to the atomic structure: ☐ Yes ☒ No

**Other atomic structures**

Object	Info

Map fraction around the atomic structure? ☐ Yes ☒ No

---

Close Save Execute

