

SUPPLEMENTARY MATERIALS

Atomic Force Microscopy to elicit conformational transitions of ferredoxin-dependent flavin thioredoxin reductases.

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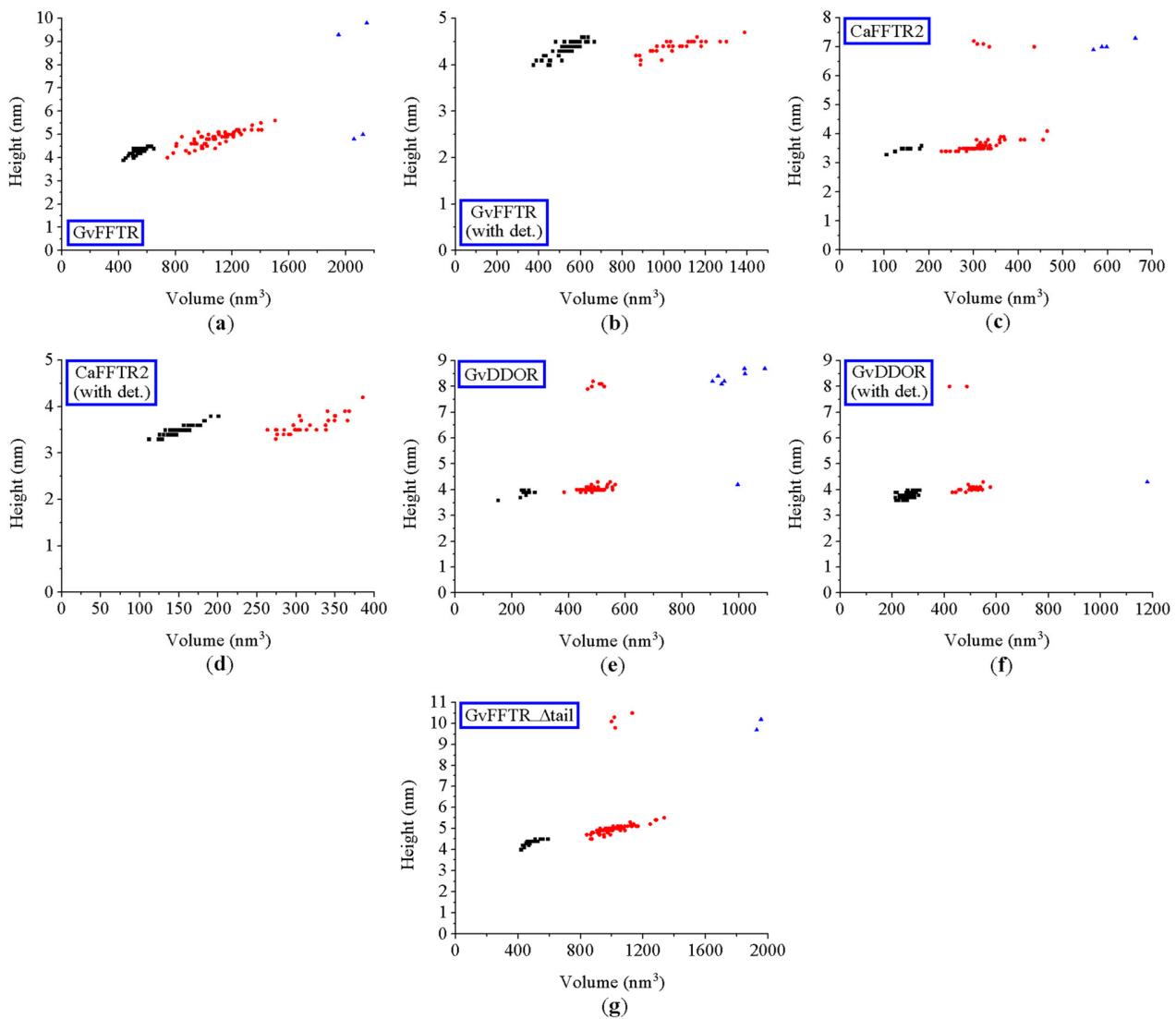


Figure S1. Height-volume density plots for wild-type enzymes and deletion mutant. (a) GvFFTR; (b) GvFFTR with detergents; (c) CaFFTR2; (d) CaFFTR2 with detergents; (e) GvDDOR; (f) GvDDOR with detergents; and (g) GvFFTR_Atail. Black squares, red circles and blue triangles correspond to monomer, dimer and tetramer protein subpopulations, respectively. N = 100 for all cases.

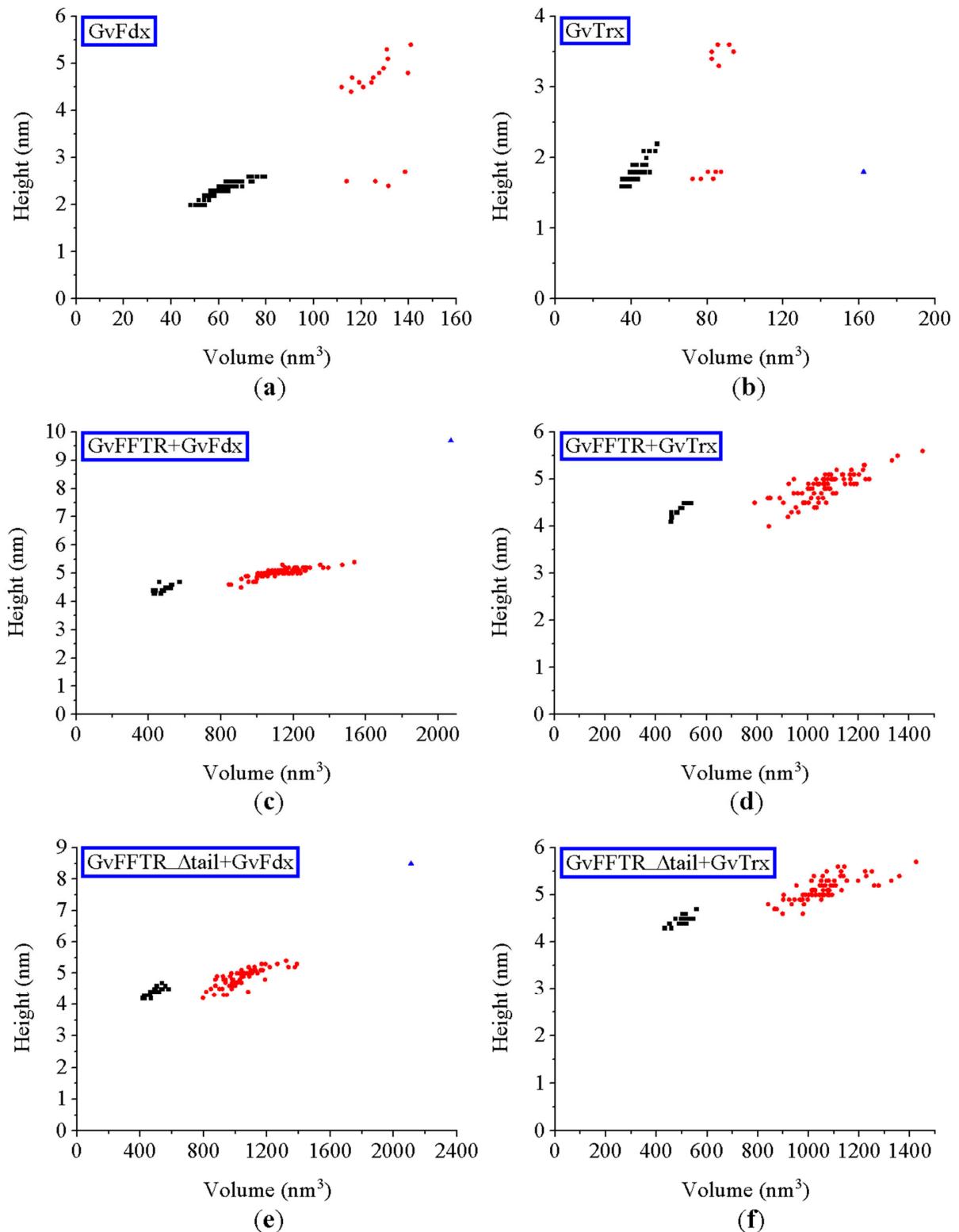


Figure S2. Height-volume density plots for protein partners and incubation mixtures. (a) GvFdx; (b) GvTrx; (c) GvFFTR with GvFdx, GvFFTR+GvFdx; (d) GvFFTR with GvTrx, GvFFTR+GvTrx; (e) GvFFTR $_{\Delta\text{tail}}$ with GvFdx, GvFFTR $_{\Delta\text{tail}}$ +GvFdx and (f) GvFFTR $_{\Delta\text{tail}}$ with GvTrx, GvFFTR $_{\Delta\text{tail}}$ +GvTrx. Black squares, red circles and blue triangles correspond to monomer, dimer and tetramer protein subpopulations, respectively. N = 100 for all cases.

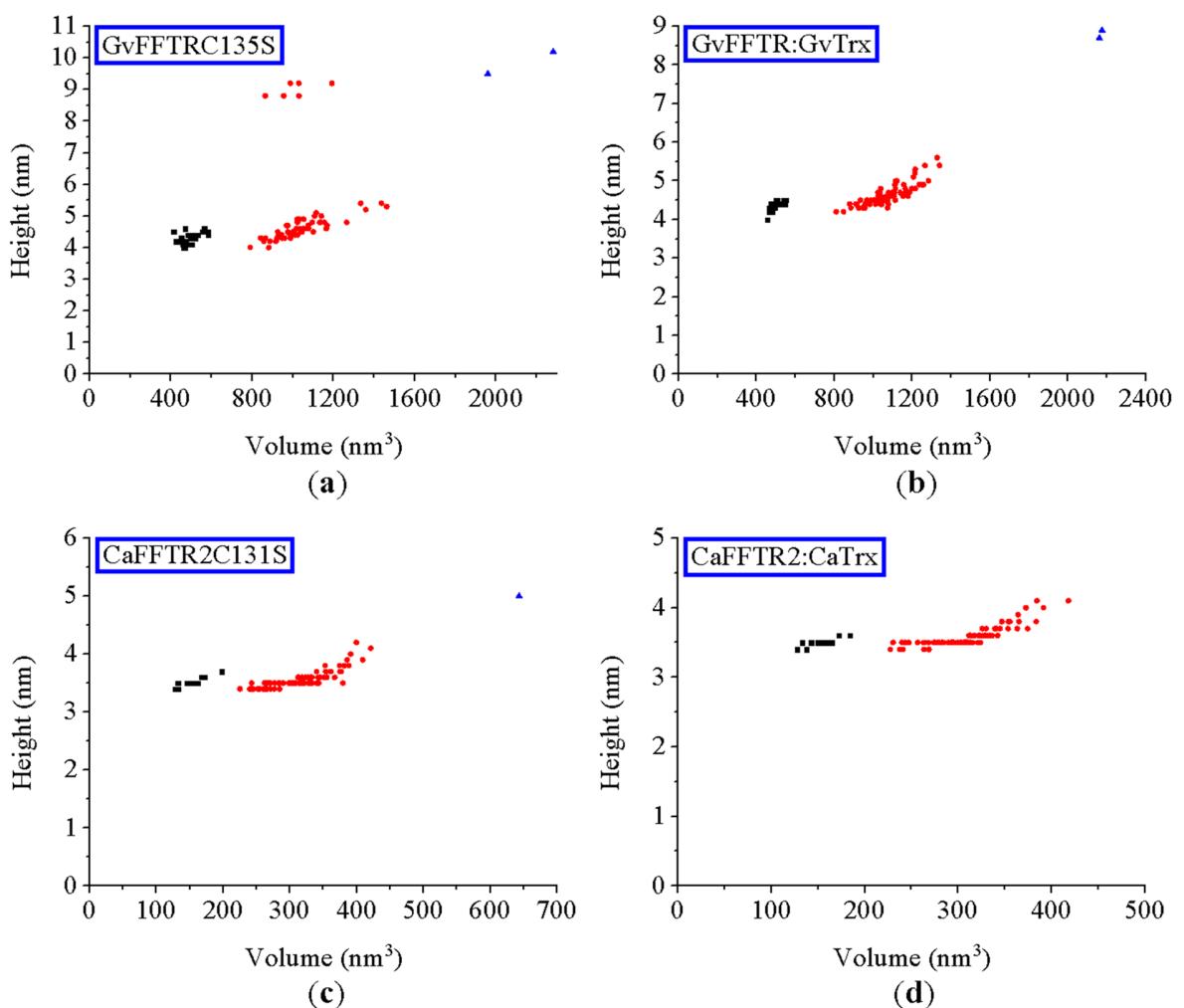


Figure S3. Height-volume density plots for FFTR variants and covalent complexes. (a) GvFFTRC135S; (b) GvFFTRC135S covalently bound to GvTrxm, GvFFTR2:GvTrx; (c) CaFFTR2C131S and (d) CaFFTR2C131S covalently bound to CaTrx, CaFFTR2:CaTrx. Black squares, red circles and blue triangles correspond to monomer, dimer and tetramer protein subpopulations, respectively. N = 100 for all cases.