

Protein	Plasmid	Tag	Expression host	Denaturing prep	IB ^a dissolved	SP/Q/Ni in 6M urea pH 7	Refolding buffer	Heparin column	S75	Final buffer
S2	pRSF-1b	no	Bl21Gold(DE3)	yes	8M urea	Q	20 mM TrisHCL pH 8.3, 20 mM NaCL, 0.5 mM EDTA/DTT	yes	yes	20 mM TrisHCL pH 7.6, 150 mM NaCl, 0.5 mM EDTA/DTT
S3	pRSF-1b	no	Bl21Tuner(DE3)	yes	6M Gua	SP	20 mM TrisHCL pH 7.6, 20 mM NaCL, 0.5 mM EDTA	yes	yes	20 mM TrisHCL pH 7.6, 20 mM NaCl, 0.5 mM EDTA/DTT
S7	pRSF-1b	no	Bl21Gold(DE3)	yes	6M Gua	SP	20 mM TrisHCL pH 7.6, 20 mM NaCL, 0.5 mM EDTA/DTT	yes	yes	20 mM TrisHCL pH 7.6, 100 mM NaCl, 0.5 mM EDTA/DTT
S9	pRSF-1b	6xHis	Bl21Gold(DE3)	yes	6M Gua	Ni/SP	20 mM TrisHCL pH 7.6, 20 mM NaCL, 0.5 mM EDTA/DTT	no	yes	20 mM TrisHCL pH 7.6, 50 mM NaCl, 0.5 mM EDTA/DTT
S10	pRSF-1b	no	Bl21Tuner(DE3)	yes	8M urea	SP	20 mM TrisHCL pH 7.0, 5% glycerol, 0.5 mM EDTA	no	yes	20 mM TrisHCL pH 7.0, 0 mM NaCl, 0.5 mM EDTA
S13	pRSF-1b	no	Bl21Gold(DE3)	yes	6M Gua	SP	20 mM TrisHCL pH 7.6, 100 mM NaCL, 0.5 mM EDTA/DTT	no	yes	20 mM TrisHCL pH 7.6, 100 mM NaCl, 0.5 mM EDTA/DTT
S14	pRSF-1b	no	Bl21Gold(DE3)	yes	6M Gua	SP	20 mM TrisHCL pH 7.6, 20 mM NaCL, 0.5 mM EDTA/DTT	yes	yes	20 mM TrisHCL pH 7.6, 150 mM NaCl, 0.5 mM EDTA/DTT
S19	pRSF-1b	no	Bl21Gold(DE3)	yes	6M Gua	SP	20 mM TrisHCL pH 7.6, 20 mM NaCL, 0.5 mM EDTA/DTT	yes	yes	20 mM TrisHCL pH 7.6, 100 mM NaCl, 0.5 mM EDTA/DTT

Table S1. Related to STAR Methods.

Overview of r-protein expression and purification. ^a inclusion bodies.