Table S1
Formulations in Crystal Screen HT.

| Number | Precipitant | Buffer (100 mM) | Additive |
|--------|-------------|----------------|----------|
| A1     | 30% v/v MPD | 0.1 M NaAc pH 4.6 | 0.02 M calcium chloride |
| A2     | 0.4 M Na/K tartrate | | |
| A3     | 0.4 M ammonium phosphate | | |
| A4     | 2.0 M ammonium sulphate | 0.1 M Tris HCl pH 8.5 | |
| A5     | 30% v/v MPD | 0.1 M Na Hepes pH 7.5 | 0.2 M sodium citrate |
| A6     | 30% w/v PEG 4000 | 0.1 M Tris HCl pH 8.5 | 0.2 M magnesium chloride |
| A7     | 1.4 M sodium acetate | 0.1 M Na cacodylate pH 6.5 | |
| A8     | 30% v/v isopropanol | 0.1 M Na cacodylate pH 6.5 | 0.2 M sodium citrate |
| A9     | 30% w/v PEG 4000 | 0.1 M Na citrate pH 5.6 | 0.2 M ammonium acetate |
| A10    | 30% w/v PEG 4000 | 0.1 M Na acetate pH 4.6 | 0.2 M ammonium acetate |
| A11    | 1.0 M ammonium phosphate | 0.1 M Na citrate pH 5.6 | |
| A12    | 30% v/v isopropanol | 0.1 M Na Hepes pH 7.5 | 0.2 M magnesium chloride |
| B1     | 30% v/v PEG 400 | 0.1 M Tris HCl pH 8.5 | 0.2 M sodium citrate |
| B2     | 25% v/v PEG 400 | 0.1 M Na Hepes pH 7.5 | 0.2 M calcium chloride |
| B3     | 30% w/v PEG 8000 | 0.1 M Na cacodylate pH 6.5 | 0.2 M ammonium sulphate |
| B4     | 1.5 M lithium sulphate | 0.1 M Na Hepes pH 7.5 | |
| B5     | 30% v/v PEG 400 | 0.1 M Tris HCl pH 8.5 | 0.2 M lithium sulphate |
| B6     | 20% w/v PEG 8000 | 0.1 M Na cacodylate pH 6.5 | 0.2 M magnesium acetate |
| B7     | 30% v/v isopropanol | 0.1 M Tris HCl pH 8.5 | 0.2 M ammonium acetate |
| B8     | 25% w/v PEG 4000 | 0.1 M Na acetate pH 4.6 | 0.2 M ammonium sulphate |
| B9     | 30% v/v MPD | 0.1 M Na cacodylate pH 6.5 | 0.2 M magnesium acetate |
| B10    | 30% w/v PEG 4000 | 0.1 M Tris HCl pH 8.5 | 0.2 M sodium acetate |
| B11    | 30% v/v PEG 4000 | 0.1 M Na Hepes pH 7.5 | 0.2 M magnesium chloride |
| B12    | 20% v/v isopropanol | 0.1 M Na acetate pH 4.6 | 0.2 M calcium chloride |
| C1     | 1.0 M sodium acetate | 0.1 M imidazole pH 6.5 | |
| C2     | 30% v/v MPD | 0.1 M Na citrate pH 5.6 | 0.2 M ammonium acetate |
| C3     | 20% v/v isopropanol | 0.1 M Na Hepes pH 7.5 | 0.2 M sodium citrate |
| C4     | 30% w/v PEG 8000 | 0.1 M Na cacodylate pH 6.5 | 0.2 M sodium acetate |
| C5     | 0.8 M Na/K tartrate | 0.1 M Na Hepes pH 7.5 | |
| C6     | 30% w/v PEG 8000 | 0.1 M Na acetate pH 4.6 | 0.2 M ammonium sulphate |
| C7     | 30% v/v PEG 4000 | 0.1 M Na acetate pH 4.6 | 0.2 M ammonium sulphate |
| C8     | 2.0 M ammonium sulphate | | |
| C9     | 4.0 M sodium formate | | |
| C10    | 2.0 M sodium formate | 0.1 M Na acetate pH 4.6 | |
| C11    | 0.8 M Na/K phosphate | 0.1 M Na Hepes pH 7.5 | |
| C12    | 8% w/v PEG 8000 | 0.1 M Tris HCl pH 8.5 | |
| D1     | 8% w/v PEG 4000 | 0.1 M Na acetate pH 4.6 | |
| D2     | 1.4 M sodium citrate | 0.1 M Na Hepes pH 7.5 | |
| D3     | 2% v/v PEG 400, 2.0 M ammonium sulphate | 0.1 M Na Hepes pH 7.5 | |
| D4     | 20% v/v isopropanol, 20% w/v PEG 4000 | 0.1 M Na citrate pH 5.6 | |
| D5     | 10% v/v isopropanol, 20% w/v PEG 4000 | 0.1 M Na Hepes pH 7.5 | |
| D6     | 20% w/v PEG 8000 | | 0.05 M potassium phosphate |
| D7     | 30% w/v PEG 1500 | | |
| D8     | 0.2 M magnesium formate | | |
| D9     | 18% w/v PEG 8000 | 0.1 M Na cacodylate pH 6.5 | 0.2 M zinc acetate |
| D10    | 18% w/v PEG 8000 | 0.1 M Na cacodylate pH 6.5 | 0.2 M calcium acetate |
| D11    | 2.0 M ammonium sulphate | 0.1 M Na acetate pH 4.6 | |
| D12    | 2.0 M Ammonium phosphate | 0.1 M Tris HCl pH 8.5 | |
| E1     | 10% w/v PEG 6000 | | 2.0 M sodium chloride |
| E2     | 0.01 M Hexachloro(trimethylammonium bromide) (CTAB) | 0.5 M sodium chloride, 0.01 M magnesium chloride | |
| E3     | 25% v/v ethylene glycol | | |
| E4     | 35% v/v dioxane | | |
| E5     | 5% v/v isopropanol | 2.0 M ammonium sulphate | |
| E6     | 1.0M imidazole pH 7.0 | | |
| E7     | 10% w/v PEG 1000, 10% w/v PEG 8000 | | |
| E8     | 10% v/v ethanol | 1.5 M sodium chloride | |
| E9     | 2.0 M sodium chloride | 0.1 M Na acetate pH 4.6 | 1.5 M sodium chloride |
| E10    | 30% v/v MPD | 0.1 M Na acetate pH 4.6 | 0.2 M sodium chloride |
| E11    | 1.0 M 1.6 hexanedial | 0.1 M Na acetate pH 4.6 | 0.01 M cobalt chloride |
| E12    | 30% v/v PEG 400 | 0.1 M Na acetate pH 4.6 | 0.1M cadmium chloride |
| F1     | 30% w/v PEG MMH 2000 | 0.1 M Na acetate pH 4.6 | 0.2 M ammonium sulphate |
| F2     | 2.0 M ammonium sulphate | 0.1 M Na citrate pH 5.6 | 0.2M KNa tartrate |
| F3     | 1.0 M lithium sulphate | 0.1 M Na citrate pH 5.6 | 0.5M ammonium sulphate |
| F4     | 2% w/v polyethyleneimine | 0.1 M Na citrate pH 5.6 | 0.5 M sodium chloride |
| F5     | 35% v/v tert-butanol | 0.1 M Na citrate pH 5.6 | |
| F6     | 10% v/v jeffamine M-600 | 0.1 M Na citrate pH 5.6 | 0.01 M ferric chloride |
| F7     | 2.5 M 1.6 hexanedial | 0.1 M Na citrate pH 5.6 | |
| F8     | 1.6 M magnesium sulphate | 0.1 M MES pH 6.5 | |
| F9     | 2.0 M sodium chloride | 0.1 M MES pH 6.5 | 0.2 M Na/K phosphate |
| F10    | 12% w/v PEG 6000 | 0.1 M MES pH 6.5 | |
| F11    | 10% v/v dioxane | 0.1 M MES pH 6.5 | 1.6 M ammonium sulphate |
|   |   |   |
|---|---|---|
| G1 | 1.8 M ammonium sulphate | 0.1 M MES pH 6.5 |
| G2 | 30% w/v PEG MME 5000 | 0.1 M MES pH 6.5 |
| G3 | 25% v/v PEG MME 550 | 0.1 M MES pH 6.5 |
| G4 | 1.6 M sodium citrate pH 6.5 | 0.01 M zinc sulphate |
| G5 | 30% v/v MPD | 0.1 M HEPES pH 7.5 |
| G6 | 10% w/v PEG 6000, 5% v/v MPD | 0.1 M HEPES pH 7.5 |
| G7 | 20% v/v Jeffamine M-600 | 0.1 M HEPES pH 7.5 |
| G8 | 1.6 M ammonium sulphate | 0.1 M HEPES pH 7.5 |
| G9 | 2.0 M ammonium formate | 0.1 M HEPES pH 7.5 |
| G10 | 1.0 M sodium acetate | 0.1 M HEPES pH 7.5 |
| G11 | 70% w/v PEG | 0.1 M HEPES pH 7.5 |
| G12 | 4.3 M sodium chloride | 0.1 M HEPES pH 7.5 |
| H1 | 10% w/v PEG 8000, 8% v/v ethylene glycol | 0.1 M HEPES pH 7.5 |
| H2 | 20% w/v PEG 10,000 | 0.1 M HEPES pH 7.5 |
| H3 | 3.4 M 1,6 hexanediol | 0.1 M TRIS pH 8.5 |
| H4 | 25% v/v tert-butanol | 0.1 M TRIS pH 8.5 |
| H5 | 1.0 M lithium sulphate | 0.1 M TRIS pH 8.5 |
| H6 | 12% v/v glycerol | 0.1 M TRIS pH 8.5 |
| H7 | 50% v/v MPD | 0.1 M TRIS pH 8.5 |
| H8 | 20% v/v ethanol | 0.1 M TRIS pH 8.5 |
| H9 | 20% w/v PEG MME 2000 | 0.1 M TRIS pH 8.5 |
| H10 | 20% w/v PEG MME 550 | 0.1 M BICINE pH 9.0 |
| H11 | 2.0 M magnesium chloride | 0.1 M BICINE pH 9.0 |
| H12 | 10% w/v PEG 20,000 | 0.1 M BICINE pH 9.0 |

|   |   |   |
|---|---|---|
| F12 | 30% v/v Jeffamine M-600 | 0.1 M MES pH 6.5 |
|   |   | 0.05 M cesium chloride |

**Notes:**

- MES: Methylenebis(ethylenediamine)
- HEPES: N-2-Hydroxyethylpiperazine-N’-2-ethanesulphonic acid
- TRIS: Tris(hydroxymethyl)aminomethane
- BICINE: Bis(2-hydroxyethyl)iminodiacetic acid
- MPD: Monoethylphosphonate dinitrilo-
- DTA: Dithiothreitol
- SDS: Sodium dodecylsulphate
- PEG: Polyethylene glycol
- DTT: Dithiothreitol
- EDTA: Ethylenediaminetetraacetic acid
- DMSO: Dimethyl sulfoxide
- BSA: Bovine serum albumin
- glyc: glycine