

Supplementary Table 1: Crystals conditions used for protein structure determination

Protein	Condition	Cryo-protectant
TM0064	40% PEG 400, 0.2 M MgCl ₂ , 0.1 M citrate pH 4.6	Y
TM0067	50%(v/v) PEG 200, 0.1 M Tris pH 6.8	Y
TM0077	20% PEG 300, 0.2 M (NH ₄) ₂ SO ₄ , 0.1 M phosphate-citrate pH 4.5, 10% glycerol	Y
TM0140	50%(v/v) PEG 200, 0.2 M NaCl, 0.1 M phosphate-citrate pH 5.2	Y
TM0216	16% PEG 8000, 0.04 M KH ₂ PO ₄ , 20% glycerol	Y
TM0216	40%(v/v) 1,2-propanediol, 0.1 M acetate pH 5.0	Y
TM0269	2.4 M (NH ₄) ₂ SO ₄ , 0.1 M HEPES pH 7.0	N
TM0423	30% MPD, 0.2 M Mg(OAc) ₂ , 0.1 M Na cacodylate pH 6.5	Y
TM0449	30% PEG 400, 0.2 M Li ₂ SO ₄ , 0.1 M cacodylate pH 6.5	Y
TM0665	50% PEG 400, 0.2 M NaCl, 0.1 M CHES pH 9.2	Y
TM0667	19% isopropanol/19% PEG 4000, 0.095 M citrate pH 5.6, 5% glycerol	Y
TM0723	2.4 M ammonium sulfate, 0.1 M MES pH 6.0	N
TM0813	10% isopropanol, 20% PEG 4000, 0.1 M HEPES pH 7.5	N
TM0813	20% PEG 8000, 0.1 M HEPES pH 7.5	N
TM0814	10% PEG 6000, 1.0 M LiCl, 0.1 M citric acid pH 5.0	N
TM0828	16% PEG 8000, 0.16 M Mg(OAc) ₂ , 0.08 M Na cacodylate pH 6.5, 20% glycerol	Y
TM0866	30% PEG 3000, CHES pH 9.5	N
TM0872	1.4 M sodium acetate, 0.1 M cacodylate pH 6.5	N
TM0920	20% PEG 300, 5%(w/v) PEG 8000, 0.1 M Tris pH 8.7, 10% glycerol	Y
TM0936	10% PEG 8000, 0.2 M NaCl, 0.1 M CHES pH 9.5	N
TM1083	0.14 M CaCl ₂ , 14% isopropanol, 0.07 M acetate pH 4.6, 30% glycerol	Y
TM1097	50% ethylene glycol; 5%(w/v) PEG 1000, 0.1 M acetate pH 5.1	Y
TM1102	20%(w/v) PEG 3350, 0.2 M potassium nitrate pH 6.9	N
TM1128	1.7% PEG 400/1.7 M (NH ₄) ₂ SO ₄ , 0.085 M HEPES pH 7.5, 15% glycerol	Y
TM1169	20% PEG 6000, 0.1 M citric acid pH 5.0	N
TM1459	50%(v/v) PEG 200, 0.2 M NaCl, 0.1 M phosphate-citrate pH 5.2	Y
TM1559	25% 1,2-propanediol, 5%(w/v) PEG 3000, 0.1 M phosphate-citrate pH 4.9, 10% glycerol	Y
TM1585	65% (±)-2-methyl-2,4-pentanediol, 0.1 M bicine pH 9.0	Y
TM1602	0.8 M NaH ₂ PO ₄ /0.8 M KH ₂ PO ₄ , 0.1 M HEPES pH 7.5	N
TM1621	30% PEG 1500	N
TM1631	1.26 M (NH ₄) ₂ SO ₄ , 0.2 M NaCl, 0.1 M CHES pH 9.5	N
TM1643	20% PEG 8000, 0.05 M KH ₂ PO ₄	N
TM1782	20% PEG 3000, 0.1 M acetate pH 4.5	N
TM1816	40% PEG 600, 0.1 M phosphate-citrate pH 5.4	Y