

**Table S2**

All successful crystallizations. The formulations in Crystal Screen HT leading to crystal formation are indicated as labeled in Supplementary Table S2, (New crystallization hits in the presence of nucleant are shown in bold).

Protein	No nucleant	Fumed silica	CM Sephadex	Sand	Titanium (IV) oxide	Glass wool	Hydroxy-apatite	Cellulose	Horse hair	Dried seaweed	Combination of 9 nucleants	Combination of 4 nucleants	No nucleant (sitting drop)	Dried seaweed (sitting drop)
Lysozyme	A9, C10, D9, E9, H3	<b>D12</b> , C10, H3	C10, D9, E9, H3	A9, C10, D9, E9, H3	<b>F1</b> , A9, D9, E9, H3	A9, C10, D9, E9, H3	<b>B5</b> , A9, C10, D9, E9, H3	<b>F1</b> , E3, A9, C10, D9, E9, H3	<b>E8</b> , A9, C10, D9, E9, H3	<b>C6, C7, D3, D12</b> , A9, C10, D9, E9, H3	<b>C6, C7, D3, D12, E3, E8, F1</b> , C10, H3	<b>B5, C6, C7, D3, D12, E8, F1</b> , A9, C10, D9, E9, H3	A9, C10, D9, E1, E9, F9	<b>B1, C11, D3</b> , A9, C10, D9, E1, E9, F9
Pepsin	B5, C3, H2	B5, <b>C3</b>	<b>D4</b> , H2	B5, C3, H2	<b>D2</b> , B5, C3, H2	B5, C3, H2	<b>D1, D5</b> , B5, H2	B5, C3, H2	A3, A5, B5, C3, H2	G4, G7, B5, C3, H2	<b>D2, D5, G4, G7, B5, H2</b>			
Trypsin	A5, C3, D2, F2, F5	<b>D5</b> , A5, C3, F5	A5, C3, F5	A5, C3, D2, F2, F5	A5, C3, D2, F2	<b>D5</b> , A5, C3, D2, F2, F5	A6, A10, A5, C3, D2, F2	<b>G3, G7, H2</b> , A5, C3, D2, F2, F5	<b>H5, H7</b> , A5, C3, D2, F2, F5	<b>D5, F3, F6</b> , A5, C3, D2, F2, F5	<b>D5, G3, H5, H7, F3, A5, C3, D2, F5</b>			
Glucose Isomerase	B9, C11, D5, E5	B9	B9, D5, E5	B9, C11, D5, E5	B9, C11, D5, E5	B9, C11, D5, E5	<b>F3</b> , B9, C11	<b>C3, C7, B9, C11, E5</b>	<b>F4</b> , B9, C11, D5, E5	<b>H9, H12</b> , B9, C11, D5, E5	<b>F4, H9, H12</b> , B9, D5, E5			
RNase A	A4, A7, B5, B6, F2, G2	F2, G2	<b>A5</b> , A4, A7, B5, B6	A4, A7, B5, B6, F2, G2	<b>A5</b> , A4, A7, B5, F2, G2	A4, A7, B5, B6, F2, G2	<b>B2, C3</b> , A4, A7, B5, F2	<b>A5, B4, B6</b> , A4, A7, B5, F2, G2	<b>E4, E5, F3</b> , A4, A7, B5, F2, G2	<b>E4, H3</b> , A4, A7, B5, F2, G2	<b>A5, B4, E5</b> , A5, A7, B5, B6			
Myoglobin	A7, A9, C2, E4	E4	A7, A9, E4	A7, A9, C2	A7, A9, C2	A7, A9, C2, E4	E7, A7, A9, E4	<b>H3, H5</b> , A7, A9, C2, E4	<b>F2</b> , A7, A9, C2, E4	<b>D9, D11</b> , A7, A9, E4, C2	<b>H3, H5, D9</b> , E7, A7, A9, C2, E4			
$\alpha$ -lactalbumin	D4, D3, F5, F7, C10	<b>B7</b> , D4, D3, F7, C10	<b>B9</b> , D4, D3, F5, F7, C10	D4, D3, F5, F7, C10	D4, D3, F5, F7	D4, D3, F5, F7, C10	<b>C3</b> , D4, D3, F5, C10	<b>H2</b> , D4, D3, F5, F7, C10	A3, A5, D4, D3, F5, C10	<b>B7, C2, C3</b> , D4, D3, F5, F7, C10	D4, D3, F5, F7, C10			
Catalase	E3, E5, F4, F5, H2	<b>B5, B7</b> , E3, E5, H2	E3, E5, F5, H2	E3, E5, F4, F5, H2	E3, E5, F4, F5, H2	E3, E5, F4, F5, H2	<b>B7, B11</b> , E3, E5, F4, F5	<b>B7</b> , E3, E5, F4, F5	<b>D5, D7, G7</b> , E3, F4, F5, H2	<b>B9</b> , E3, E5, F4, F5, H2	<b>B7, D5, D7, B9, B11, H5, E5, H2, E3</b>			
Xylanase	A7, A9, G2, H5, H9	<b>H3</b> , A7, A9, G2, H5	A7, A9, H5, H9	A7, A9, G2, H5, H9	<b>C11</b> , A9, G2, H5, H9	A7, A9, G2, H5, H9	<b>F4, F5, H7</b> , A7, A9, G2, H9	A7, A9, G2, H5, H9	<b>E4, H3, H4</b> , A7, A9, H5, H9	<b>D4, D9</b> , A7, A9, G2, H5	<b>C11, E4, H3, H4, F4, F5</b> , A7, A9, G2, H5			
Thaumatococin	D10, F9, F11, H2	<b>D5, D7</b> , F9, F11	F9, F11, H2	D10, F9, F11, H2	<b>D5</b> , D10, F9, F11, H2	D10, F9, F11, H2	<b>D2, E2</b> , D10, F9, F11, H2	<b>A2</b> , A5, D7, D10, F9, F11	<b>F3, F5</b> , D10, F9, F11, H2	<b>D7, G2</b> , D10, F9, F11	<b>A2, A5, D7, G2, E2</b> , F9, F11, H2			