Supplementary table. Proteins used for crystallization tests of the screens PolyA and PolyB. Identity of the proteins representing current research targets is not disclosed. * Molecular weight given for known oligomer, otherwise, value for monomer is shown. Acronyms of institutes: AFMB - Architecture et Fonction des Macromolécules Biologiques, CNRS UMR, Marseille, France; IMC – Institute of Macromolecular Chemistry, Prague, Czech Republic; KI - Karolinska Institutet, Stockholm, Sweden; MDC - Max-Delbrück-Centrum, Berlin, Germany; NKI - Netherlands Cancer Institute, Amsterdam, The Netherlands.

Symbol	**Target identification**	**Molecular weight (kDa)**	**Protein concentration (mg/ml)**	**Buffer**	**Crystal in PolyA or PolyB**
GI	Glucose isomerase from *Streptomyces rubiginosus* (Hampton Research; tetramer)	173*	20	1 mM $MgCl_2$, 10 mM HEPES, pH 7.0	Yes
CC	Cytochrome C from *Equus ferus caballus*	12	9.8	50 mM Tris/HCl, 20 mM KCl, pH 7.5	Yes
CA	Carbonic anhydrase from *Bovine erythrocytes*	29	14	50 mM Tris/HCl, 20 mM KCl, pH 7.5	Yes
CD	CD69 from *Homo sapiens*; dimer	30*	20	100 mM NaCl, 1 mM NaN_3, 10 mM HEPES, pH 7.0	Yes
COX	Carbohydrate oxidase from *Microdochium nivale*	55	10	10 mM Tris/HCl, pH 7.1	Yes
ACH	Albumin from *Gallus gallus*	44	3.7	50 mM Tris/HCl, 20 mM KCl, pH 7.5	No
AD	Alcohol dehydrogenase from *Yeast*	150	9.7	50 mM Tris/HCl, 20 mM KCl, pH 7.5	Yes
LYS	Lysozyme from *Gallus gallus* (Sigma, cat. no. L6876)	14	50	100 mM Na acetate trihydrate, pH 4.8	Yes
Xyl	Xylanase from *Trichoderma longibrachiatum* (Hampton Research)	21	18	21% glycerol, 180 mM Na/K phosphate, pH 7.0	Yes
NKRC	NKR-P1C from *Mus musculus* (dimeric)	30*	10	70 mM NaCl, 10 mM HEPES, pH 8.0	Yes
NKRA	NKR-P1A from *Mus musculus*	15	10	150 mM Tris/HCl, pH 8.0	No
JL1	Project of KI (protein with ligand)	28	40	5% glycerol, 20 mM Tris/HCl, pH 7.4	Yes
J2	Project of KI (monomeric protein)	62	15	20 mM Tris/HCl, pH 8.0, 400 mM NaCl, 5 mM beta-mercaptoethanol	No
AFMB1	Project of AFMB (protein-protein complex)	37+13*	n. a.	150 mM NaCl, 1mM dithiothreitol, 10 mM HEPES, pH 7.6	Yes
NKI 1	Project of NKI (a domain)	25	10	200 mM NaCl, 1 mM dithiothreitol, Tris/HCl pH 7.5	Yes
NKI 2	Project of NKI (E3 ligase)	59	7.6	n. a.	Yes
NKI 3	Project of NKI	n.a.	n. a.	n. a.	Yes
OA8	Project of IMC (enzyme)	51	20; 17	50 mM NaH_2PO_4/K_2HPO_4, pH 7.0	Yes
OA9	Project of IMC (enzyme)	51	16	50 mM HEPES, pH 7.0	Yes
OA10	Project of IMC (enzyme)	51	20	50 mM citric acid HCl, pH 7.0	No
OA11	Project of IMC (enzyme)	51	14	50 mM NaH_2PO_4/Na_2HPO_4, pH 7.0	Yes
1227	Project of MDC (protein)	110	16	150 mM NaCl, 50 mM Tris/HCl, pH 8.0	No
1298	Project of MDC (protein complex)	233*	5.5	2.5 % (v/v) 1,2 - propanediol, 1 mM dithiothreitol, 3% glycerol, 250 mM NaCl, 20 mM Tris/HCl, pH 8.0	No
1388	Project of MDC (protein)	113	5.2	850 mM NaCl, 50 mM Tris/HCl, pH 8.0	Yes
1480	Project of MDC (protein)	20	7.8	200 mM NaCl, 2mM dithiothreitol, 20 mM Tris/HCl, pH 7.5	No
1486	Project of MDC (protein)	12	40	10 mM BME, 100 mM NaCl, 10 mM Tris/HCl, pH 7.0	Yes
1488	Project of MDC (protein)	20	13	2 mM dithiothreitol, 200 mM NaCl, 20 mM Tris/HCl, pH 7.5	Yes
1491	Project of MDC (protein)	50	30	2 mM TCEP (*tris*(2-carboxyethyl)phosphine), 150 mM NaCl, 20 mM HEPES, pH 7.0	Yes
1493	Project of MDC (protein)	110	4.0	150 mM NaCl, 50 mM Tris/HCl, pH 8.0	No