

Materials List for:

Extracellular Protein Microarray Technology for High Throughput Detection of Low Affinity Receptor-Ligand Interactions

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Materials

Name	Company	Catalog Number	Comments
Ultra Pure MB Grade glycerol	USB Corporation	56-81-5	Protein storage
SeptoMark blocking buffer	Zeptosens	BB1, 90-40	Blocking buffer microarray slides
Bovine serum albumin	Roche	03-117-957-001	Slide control for mask fitting (optional)
Polypropylene multiwell plates	Greiner Bio One	82050-678	Protein storage
Polypropylene multiwell plates	Arrayit	MMP384	Slide printing
NanoPrint LM60, or similar contact microarrayer	Arrayit	NanoPrint LM60, or similar contact microarrayer	Slide printing
Micro spotting pins	Arrayit	Micro spotting pins	Slide printing
ZeptoFOG blocking station	Zeptosens	ZeptoFOG blocking station, 1210	Block slides after printing
Skim milk powder	Thermo Fisher	LP0031	Blocking solution
Epoxysilane-coated glass slide	Nextrion Slide E	1064016	Microarray slides
Glass holder and slide rack set	Wheaton	900303	Slide storage
Cy5 monoreactive dye	GE Healthcare	PA23031	Albumin labeling
Cy5 monoreactive dye	GE Healthcare	PA25001	Human IgG labeling
Pro-spin desalting column	Princeton Separations	CS-800	Remove free dye
Adhesive aluminum foil seal	AlumaSeal	F-384-100	Seal stock plates
Polypropylene cryogenic vials	Corning	430658	Master vials for protein library storage
Protein A microbeads	Miltenyi	120-000-396	Query protein multimerization
Human IgG	Jackson ImmunoResearch	009-000-003	Irrelevant IgG for labeling
Protein A	Sigma	P7837	Microarray slide blocking
Hybridization station, a-Hyb or similar	Miltenyi	Hybridization station, a-Hyb or similar	Automated microarray processing (optional)
GenePix 4000B scanner or similar	Molecular Devices	GenePix 4000B scanner or similar	Slide scanning
GenePix Pro or equivalent data extraction software	Molecular Devices	GenePix Pro or equivalent data extraction software	Data processing
Signal P4.1	DTU Bioinformatics, Technical University of Denmark	online software	Prediction tool to determine presence and location of signal peptide cleavage sites
TMHMM 2.0 server	DTU Bioinformatics, Technical University of Denmark	online software	Prediction of transmembrane helices in proteins
Phobius	Stockholm Bioinformatics Center	online software	A combined transmembrane topology and signal peptide predictor
TOPCONS	Stockholm University	online software	Prediction of membrane topology and signal peptides