

Materials List for:

# Generation of Two-color Antigen Microarrays for the Simultaneous Detection of IgG and IgM Autoantibodies

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## Materials

Name	Company	Catalog Number	Comments
Ribosomal P0	Direct	14100	dilute to 0.2 mg/ml in PBS
human IgG	Jackson Immuno	009-000-003	dilute to 0.2 mg/ml in PBS
human IgM	Jackson Immuno	009-000-012	dilute to 0.2 mg/ml in PBS
mouse IgG	Sigma-Aldrich	I5381	dilute to 0.2 mg/ml in PBS
mouse IgM	Biolegend	401601	dilute to 0.2 mg/ml in PBS
double-stranded DNA	Sigma-Aldrich	D1626	dilute to 0.2 mg/ml in PBS
single-stranded DNA	Sigma-Aldrich	D8899	dilute to 0.2 mg/ml in PBS
microarrayer	Virtek	VersArray Chipwriter Pro	many types of arrayers are suitable
solid printing pins	Arrayit Corporation	SSP015	
software for robotic microarrayer	Virtek	Chipwriter Pro	
FAST slides (2 Pad)	GVS North America	10485317	
FAST frame	GVS North America	10486001	
FAST incubation chambers (2 Pad)	GVS North America	10486242	
384 well plates	Whatman	7701-5101	
plate sealers	VWR	60941-062	
foil plate covers	VWR	60941-124	
Tween-20	Fisher Scientific	BP337-500	
Fetal calf serum	Invitrogen	12483020	
Cy3 goat anti-human IgG	Jackson Immuno	109-165-096	use working stock in 50% glycerol
Cy5 goat anti-human IgM	Jackson Immuno	109-175-129	use working stock in 50% glycerol
Cy3 goat anti-mouse IgG	Jackson Immuno	115-165-071	use working stock in 50% glycerol
Cy5 goat anti-mouse IgM	Jackson Immuno	115-175-075	use working stock in 50% glycerol
Microarray Scanner	Molecular Devices	Axon 4200A	
Microarray software	Molecular Devices	Genepix 6.1	
Clustering software	eisenlab.org	Cluster 3.0	
Heatmap software	eisenlab.org	Treeview 1.60	
Microarray statistical software	Stanford University	SAM 4.0 (Significance Analysis of Microarrays)	