

**Table S2.** Significant DAVID enrichment pathways from PRESTO gates. Related to Fig. 2.

Gate 1	Pvalue	Gate 5	Pvalue
B cell receptor signaling pathway	8.83E-07	defense response to virus	1.22E-16
humoral immune response	2.44E-05	type I interferon signaling pathway	1.78E-15
immunoglobulin receptor binding	4.09E-04	negative regulation of viral genome replication	1.28E-09
positive regulation of B cell activation	5.11E-04	response to virus	1.35E-08
positive regulation of signal transduction	5.13E-04	interferon-gamma-mediated signaling pathway	2.94E-06
	6.38E-04		
Gate 2		Gate 6	
complement activation	6.47E-07	inflammatory response	1.31E-16
antigen binding	8.96E-07	immune response	3.62E-09
complement activation, classical pathway	1.09E-06	response to lipopolysaccharide	4.17E-08
Fc-gamma receptor signaling pathway involved in phagocytosis	2.95E-06	positive regulation of NF-kappaB transcription factor activity	1.22E-07
Fc-epsilon receptor signaling pathway	1.12E-05	cellular response to tumor necrosis factor	8.89E-06
Gate 3		Gate 7	
platelet degranulation	6.84E-10	cellular defense response	4.64E-05
platelet activation	1.15E-05	cell surface receptor signaling pathway	2.39E-04
blood coagulation	1.64E-05	regulation of immune response	2.63E-04
platelet aggregation	7.77E-04	adaptive immune response	0.0119
calcium ion binding	0.00522	MHC class I receptor activity	0.0197
Gate 4		Gate 8	
positive regulation of transcription from RNA polymerase II promoter	9.33E-07	adenylate cyclase-modulating G-protein coupled receptor signaling pathway	0.0282
transcriptional repressor activity, RNA polymerase II core promoter proximal region sequence-specific binding	6.31E-06	positive regulation of cell proliferation	0.0489
negative regulation of transcription from RNA polymerase II promoter	7.37E-06	positive regulation of cytosolic calcium ion concentration	0.0989
transcription, DNA-templated	6.28E-04		
transcription factor activity, sequence-specific DNA binding	9.13E-04		