

Materials List for:

Generation of Escape Variants of Neutralizing Influenza Virus Monoclonal Antibodies

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Materials

Name	Company	Catalog Number	Comments
Falcon 96-well clear flat bottom TC-treated culture microplate with Lid	Corning, Inc.	353072	Assay plate use for the microneutralization assay
Falcon 96-well clear V-bottom plate	Corning, Inc.	353263	Assay plate use for the hemagglutination inhibition assay
1X Minimal Essential Medium (MEM)	Gibco	11095080	Infection medium
Tosyl phenylalanyl chloromethyl (TPCK)-treated trypsin	Sigma-Aldrich	T8802	Cleaves immature HA ₀ to HA ₁ and HA ₂
Biotinylated anti-NP primary antibody (IAV)	EMD Millipore	MAB8258B	An antibody that recognizes the NP protein of influenza A viruses
Biotinylated anti-NP primary antibody (IBV)	EMD Millipore	MAB8260B-5	An antibody that recognizes the NP protein of influenza B viruses
Streptavidin-HRP antibody	EMD Millipore	18-152	This is used as a secondary antibody for the biotinylated anti-NP antibody
HRP substrate (SIGMAFAST-OPD)	Sigma-Aldrich	P9187-5SET	o-phenylenediamine dihydrochloride water soluble substrate for HRP
96-well V-bottom plate	Nunc	249662	Assay plate used for the hemagglutination assay
Chicken red blood cells	Lampire Biological Laboratories	7201403	Used to assess the ability of influenza virus to agglutinate
TRIzol	Ambion	15596026	Extraction of RNA
Superscript III	Invitrogen	12574018	Reverse transcriptase
Gel Extraction Kit	Qiagen	28704	Isolation of amplified PCR product
Lipofectamine 2000	Invitrogen	11668027	Transfection reagent
Anti-human IgG (H+L) Alexa Fluor 488	Invitrogen	A-11013	Fluorescent secondary antibody for human antibodies
Anti-mouse IgG (H+L) Alexa Fluor 488	Invitrogen	A-11001	Fluorescent secondary antibody for murine antibodies
6-well polystyrene microplate	Corning, Inc.	353934	
UltraPure Agarose	Invitrogen	16500500	
Nalgene long term storage Cryo-tubes	ThermoFisher Scientific	5012-0020	Freezing of viral culture supernatant
reassortant A/California/04/09 (H1)	Palese Laboratory		reassortant virus expressing the HA and NA of A/California/04/09 (H1N1) with the internal segments of A/Puerto Rico/8/34 (H1N1)

reassortant A/Shanghai/1/13 (H7)	Palese Laboratory		reassortant virus expressing the HA and NA of A/Shanghai/1/13 (H7N9) with the internal segments of A/Puerto Rico/8/34 (H1N1)
Bovine serum albumin solution (35%)	Sigma-Aldrich	A7979	
Qiagen gel extraction kit	Qiagen	28704	Silica-membrane-based purification of DNA fragments