

Materials List for:

Small RNA Transfection in Primary Human Th17 Cells by Next Generation Electroporation

Misty M. Montoya¹, K. Mark Ansel¹

¹Department of Microbiology & Immunology, Sandler Asthma Basic Research Center, University of California, San Francisco

Correspondence to: K. Mark Ansel at mark.ansel@ucsf.edu

URL: <https://www.jove.com/video/55546>

DOI: [doi:10.3791/55546](https://doi.org/10.3791/55546)

Materials

Name	Company	Catalog Number	Comments
anti-human IL-17A PE	ebioscience	12-7179-42	Clone: eBio64DEC17
anti-human IFN γ FITC	ebioscience	11-7319-82	Clone: 4S.B3
anti-human CD4 eVolve605	ebioscience	83-0047-42	Clone: SK3
mouse anti-human CD196 (CCR6) BV421	BD biosciences	562515	Clone: 11A9
anti-human ROR γ t AF647	BD biosciences	563620	Clone: Q21-559
anti-human CD45 eFluor450	ebioscience	48-9459-42	Clone: 2D1
Foxp3/Transcription Factor Staining Buffer Set	ebioscience	00-5523-00	For intracellular transcription factor flow cytometry staining
Hu FcR Binding Inhibitor Purified	ebioscience	14-9161-71	
ImmunoCult-XF T Cell Expansion Medium	Stemcell Technologies	10981	"Serum-Free Base Media"
MACS CD28 pure functional grade, human	Miltenyi Biotec	130-093-375	Clone: 15E8
anti-human CD3 Purified	UCSF monoclonal antibody core	N/A	Clone: OKT-3
LEAF purified anti-human IL-4	Biolegend	500815	Clone: MP4-25D2
anti-human IFN γ , functional grade purified	ebioscience	16-7318-85	Clone: NIB42
Recombinant human IL-23	Peprtech	200-23	
Recombinant human IL-1 β	Peprtech	200-01B	
Recombinant human TGF- β 1	Peprtech	100-21C	
Recombinant human IL-6	Peprtech	200-06	
siGENOME Control Pool, Non-targeting #2	Dharmacon	D-001206-14-05	
siGENOME SMARTpool Human RORC	Dharmacon	M-003442-00	
siGENOME SMARTpool Human PTPRC	Dharmacon	M-008067-01	
Dynabeads Untouched Human CD4 T Cells Kit	ThermoFisher Scientific	11346D	Human CD4 ⁺ T cell Isolation Kit
Neon Transfection System	ThermoFisher Scientific	MPK5000	Next generation electroporation instrument
Neon Transfection System 10 μ L Kit	ThermoFisher Scientific	MPK1096	
Resuspension Buffer T	ThermoFisher Scientific	Provided in kit (MPK1096)	"Transfection Resuspension Buffer"
Lymphoprep	Stemcell Technologies	#07801	Density Gradient Medium
costar 6-well tissue culture treated plates	Corning	3516	flat bottom plates

costar 48-well tissue culture treated plates	Corning	3548	flat bottom plates
BD Pharm Lyse lysing buffer, 10x	BD biosciences	555899	Must make 1x solution with distilled water prior to use