

Materials List for:

# Real Time Monitoring of Intracellular Bile Acid Dynamics Using a Genetically Encoded FRET-based Bile Acid Sensor

Sandra Van de Wiel<sup>1</sup>, Maarten Merckx<sup>2,3</sup>, Stan Van de Graaf<sup>1</sup>

<sup>1</sup>Tytgat Institute for Liver and Intestinal Research, Department of Gastroenterology and Hepatology, Academic Medical Center

<sup>2</sup>Laboratory of Chemical Biology, Institute of Complex Molecular Systems (ICMS)

<sup>3</sup>Department of Biomedical Engineering, Eindhoven University of Technology

Correspondence to: Stan Van de Graaf at [k.f.vandegraaf@amc.uva.nl](mailto:k.f.vandegraaf@amc.uva.nl)

URL: <https://www.jove.com/video/53659>

DOI: [doi:10.3791/53659](https://doi.org/10.3791/53659)

## Materials

Name	Company	Catalog Number	Comments
CytoBAS	Addgene	62860	
NucleoBAS	Addgene	62861	
Dulbecco's modified Eagles media (DMEM)	Lonza	BE12-614F	High glucose without L-glutamine
Penicillin-Streptomycin (pen/strep)	Lonza	17-602E	
L-glutamine (200mM)	Lonza	17-605E	
Fetal Bovine Serum (FBS)	Invitrogen	102-70	
Trypsin-EDTA (10x)	Lonza	CC-5012	
T-25 cell culture flask	VWR international	392-0253	Laminin coated
T-175 cell culture flask	VWR international	392-0238	Laminin coated
6-well plate	VWR international	734-0229	Poly-L-lysine and Laminin coated
10 cm dish	VWR international	392-0243	Laminin coated
Diethylaminoethyl (DEAE) - Dextran	Sigma-Aldrich	D9885	
Polyethylenimine (PEI)	Brunschwig	23966-2	
G418 (geneticin) 50 mg/ml	Invitrogen	10131-027	
Hygromycin B, 50 mg/ml	Invitrogen	10687-010	
Cloning cylinder (6 x 8 mm)	Bellco	2090-00608	
L-15 Leibovitz culture medium	Invitrogen	21083-027	No phenol red
Polystyrene round bottom tube (5 ml) FACS tube	Falcon BD	352008	No cap, non-sterile
Falcon 2,063 tubes (5 ml)	Falcon BD	352063	Snap cap, sterile
Nunc Lab-Tek 8 well coverglass	Thermo scientific	155409	Sterile
Charcoal-filtered FBS	Life technologies	12676011	
GW4064	Sigma-Aldrich	G5172	
TCDCa	Sigma-Aldrich	T6260	
CDCA	Sigma-Aldrich	C9377	
Other chemicals	Sigma-Aldrich	n.v.t.	