

Table S1.

Reagent or Resource	Identifier	Source
Bacterial strains		
<i>E. coli</i>		
NEB-10 beta	<i>Δ(arq-leu) 7697 araD139 thrA ΔlacX74 galK16 galE15 e14- φ80dlacZ ΔM15 recA1 relA1 endA1 nupG rpsL (Str^r) rph spoT1 Δ(mrr-hsdRMS-mcrBC)</i>	New England Biolabs
HB101(RP4)	<i>supE44 aa14 galK2 lacY1 Δ(gpt-proA) 62 rpsL20 (Str^r) xyl-5 ms-1 recA13 Δ(mcrC-mrr) hsdS₁ (r_{ST}-m_g) RPA (Tra⁺ IncP A⁺ Km^r Tc^r)</i>	Laboratory stock
HB101(R702) - CAC434	HB101 (R702): F ⁺ <i>msbB mrr hsdS20 (d-mb-) recA13 leuB6 ara-14 proA2 lacY1 galK2 xyl-5 mtl-1 rpsL20 (SmR) qtrv44 Δ-1</i>	Purdy et al., 2002 ; Woods et al., 2019 https://plasmidvectors.com/donor-strains/
C. difficile		
630.Δerm	630.Δerm 012	Laboratory stock
630.Δerm Δubr	CDIP1887	Lotoux et al., 2025
630.Δerm luxS:erm	CDIP1725	Tremblay et al., 2021
630.Δerm ΔoseR	CDIP1412	Caulat et al., 2024
UK1	CDIP1666	Laboratory stock
UK1 Δubr	CDIP2111	This study
UK1 ΔuxS	CDIP2507	This study
Plasmid		
pMSR0	Allele exchange for <i>C. difficile</i> UK1	
pDIA7369	pMSR0 ACE luxS	This study
p127	pMSR derivative for CdiLoc deletion	Meza-Torres et al., 2025
Medium		
TY liquid and agar	Bacto Tryptone 30 g/L, yeast extract 20 g/L	Sigma-Aldrich
LB liquid and agar	Tryptone 10 g/L, yeast extract 5 g/L and NaCl 5 g/L	Sigma-Aldrich
BHI liquid and agar		Sigma-Aldrich
Taurocholate		Sigma-Aldrich
Clo Agar	agar, 15 g/L, disodium phosphate, 5 g/L, fructose, 6 g/L, magnesium sulfate, 0.1 g/L, monopotassium phosphate, 1 g/L, proteose peptone, 40 g/L, sodium chloride, 2 g/L	Biomérieux
RPMI-1640 Medium	#R2405	Sigma-Aldrich
Fetal Bovine Serum	#F7524	Sigma-Aldrich
HEPES	#156630080	ThermoFisher Scientific
Biological Samples		
Human peripheral blood	N/A	INVOLVE Pasteur Institute - Cosipop study group
Colon and Caecum from mouse infected tissues	C57BL/6	Charles River Laboratories
Chemicals, peptides and recombinant proteins		
Thiamphenicol	#T0261	Sigma-Aldrich
Vancomycin	#PHR1732-4X250MG	Sigma-Aldrich
Clindamycin	#C2269000	Sigma-Aldrich
Kanamycin	#K1377	Sigma-Aldrich
D-Cytoserin	#C0886-5G	Sigma-Aldrich
Cefoxitin	#C4786-5G	Sigma-Aldrich
Ampicillin sodium salt	#A9518-25G	Sigma-Aldrich
Chloramphenicol	#C0378-5G	Sigma-Aldrich
RIPA Buffer	#R0278-50ML	Sigma-Aldrich
DpnI	#R0176L	Biolabs
Plasmid kit	#T40588 250	Macherey Nagel
Human neutrophil isolation Kit	#130-104-434	MILTENYI BIOTEC
Deoxyribonuclease I from bovine pancreas (20000 Units)	#D4527-20KU	Sigma-Aldrich
TMB (Tetramethylbenzidine)	#10445723	ThermoFisher Scientific
Ethanol 96%	#E05550F/21	ThermoFisher Scientific
Chloroform	#319988-500ML	Sigma-Aldrich
Acetic acid	#A6283-1L	Sigma-Aldrich
Glycyl-Glycine Buffer	0.2% glucose (pH 8), Glycyl-glycine (50 mm)	Prepared in the lab
Carnoy's fixative	60 % ethanol, 30% chloroform and 10% acetic acid	Prepared in the lab
Trilon		
Sakura Finetek O.C.T Compound	#15328989	Fisher
DAPI	#62248	ThermoFisher Scientific
Paraformaldehyde, 32% w/v aq. soln., methanol free	16431755	Fisher
RI-MyeloTracker-Cy3	N/A	Anderson et al., 2018 and 2019
RNA Pro	#11431535	Fisher
Kit de dosage quantitatif au peroxyde Pierce	#23280	ThermoFisher Scientific
AMV Reverse Transcriptase (HC)	#M9004	Promega
DirectZol RNA miniprep w/ Zymo-Spin IIC Columns	#ZR2052	ozyme
Hypochlorite Assay kit (Colorimetric)	#a6219629	abcam
Invitrogen™ Fluoromount-G™ Mounting Medium	#15586276	ThermoFisher Scientific
Invitrogen Bolt 12% Bis-Tris Mini protein gel 12-well	#NW00122BOX	ThermoFisher Scientific
Cytotox 96 Cytotoxicity assay	#G1780	Promega
Killing Buffer	20 mM Tris HCl 7.5, 5 mM MgCl ₂ and 20 mM NaCl	Prepared in the lab
Bovine Serum Albumine	#A2153-100G	ThermoFisher Scientific
Tween 20	#H5152	Promega
PBS	#10010023	ThermoFisher Scientific
Hydrogen Peroxide solution	#H1009-100ML	Sigma-Aldrich
Diphenyleneiodonium chloride (DPI)	#D2926-10MG	Sigma-Aldrich
B-mercaptoethanol	#M6250-100ML	Sigma-Aldrich
Non reducing agent buffer	#11819340	Sigma-Aldrich
Spectra Multicolor Broad Range Protein Ladder	#26634	Thermo scientific
CellROX Green oxidative stress detection test	#12648335	Invitrogen
SuperBlocking Buffer	#10076713	ThermoFisher Scientific
TBS-T	1 M Tris pH 7.5, 5 M NaCl	Prepared in the lab
MES Buffer	20 x MES #8000202	ThermoFisher Scientific
RÉGLAIT SKIMMED MILK (750 G BOX)	#711160	Dutscher
SuperSignal West Femto Maximum Sensitivity Substrate	#34096	ThermoFisher Scientific
Protease inhibitor	#HY-K0011	Roche
dNTP	#K1042-5	Clinisciences
Random Primer, lyophilized, pkg of 2 mg pd(N)6	#1034731001	Roche
RNAase	#N215	Promega
Rneasy Protect Mini Kit	#74126	QIAGEN
SYBR™ Power SYBR™ Green PCR Master Mix	#10658255	ThermoFisher Scientific
Mouse NGAL Sandwich ELISA Kit	#KE1009	Proteintech
Mouse MPO ELISA Kit Picokine	#EK0943	Boster
Experimental models : Cell lines, organisms		
C57BL/6 mice	N/A	Charles River Laboratories
Software and devices		
FlowJo 11	https://www.flowjo.com/	FlowJo LLC
Fiji (ImageJ2.2.16.0)	https://fiji.sc/	Schindelin et al., 2012
GraphPad Prism V10	http://graphpad.com	GraphPad
NIS-Elements Microscope Imaging Software	N/A	Nikon
Hypoxia chamber Bugbox M 1020NB02	N/A	Baker Ruskin
Anoxic chamber	N/A	Jacomex
Cryostat	CM-3050S	Leica
Spinning disk microscope	Nikon Ti-E inverted microscope equipped with a Perfect Focus system (TI-ND6-PFS Perfect Focus Unit) and a Yokogawa confocal spinning disk unit (CSU-W1)	Nikon
Inverted widefield microscope	Equipped with a CoolSnap2 camera (Roeper Scientific)	Nikon
CytoFlex S		
N/A	N/A	Beckman Coulter
StepOnePlus™ Real-Time PCR System	#15320855	ThermoFisher Scientific
Homogénéisateur FastPrep-24	#S6005	MP Biomedicals
AccuTis SmartReader plate reader	#Z742713	Benchmark Scientific
GoMax Discover Microplate Reader	N/A	Promega
Other		
Microscope Slides Superfrost plus	#10149870	ThermoFisher Scientific
Lysing Matrix B	#116911500	MP Biomedicals
Lamelle 12 mm	#30164	Dutscher Dominique SAS
Polypropylene plate 24 wells	#290-6324-03F	Dutscher Dominique SAS
Antibodies		
HRP-conjugated sheep anti-mouse	N/A	GE Healthcare
Polyclonal Rabbit Anti-Human Myeloperoxidase	#A036829-2	Agilent
Polyclonal Rabbit Chondroitin Sulfate	#BS-5178R	ThermoFisher Scientific
Anti-C. difficile Slp-RT027 (CD9) (mouse polyclonal)	N/A	Hunault et al., 2024
Anti-C. difficile Slp-RT012 (IE2) (mouse polyclonal)	N/A	Hunault et al., 2024
Goat-anti-Rabbit IgG Alexa fluor 488	#A32731	Invitrogen
Alexa Fluor® 647 AffiniPure F(ab') ₂ Fragment Rabbit Anti-Mouse IgG, Fcy fragment specific	#155-606-046	Interchim
Goat anti-rabbit immunoglobulin G (IgG) (H&L) pre-adsorbed	#a66039	Abcam
CD23sa (Glycophorin A) MicroBeads, human	#130-050-501	MILTENYI BIOTEC
Phalloidine Alexa Fluor 647	#A22287	ThermoFisher Scientific
Activated Mac-1 (CD11b) Mouse anti-Human, Brilliant Violet 421	#566313	BD BIOSCIENCES
Goat anti-rabbit immunoglobulin G (IgG) (H&L) (Cy3) pre-adsorbed	#a66939	abcam
Donkey anti-mouse IgG (H+L) Highly Cross-Absorbed Secondary Antibody, Alexa Fluor 647	#A-31571	ThermoFisher Scientific
CD6aboe-PE human	#130-124-503	MILTENYI BIOTEC
CD62L Antibody anti-human - APC - REAdey	#130-121-379	MILTENYI BIOTEC
Anti-Rabbit HRP	#W4011	Promega
Toxine A of Clostridium Difficile (PCG4.1)	#NB600-1066	Bio-Techne
Toxin B (C. Difficile) monoclonal antibody 1mg	#BM347-NA48-1mg	Euromedex
Poly-HRP Streptavidin 0,25 ml	#N200	ThermoFisher Scientific
Polyclonal Chicken anti-Clostridium difficile Clostridium difficile A HRP	#L.S.-C128215-100	Sigma-Aldrich
CdIB capture antibody	#MBS396782	MyBioSource
Hypoxypore-Green Kit (1000 mg pimodazole HCl plus 2 units of 11.23.22 r Rat FITC-Mab)	#HP6-1000Kit	Hypoxypore Store