

Fig. S1. Comparative virulence of various M. massiliense strains in zebrafish embryos. (A) Zebrafish embryos at 30 hpf were infected via caudal vein injection with approximately 200-250 CFU of each corresponding strain. Embryonic survival was monitored daily over a 12-day period. Represented data is the merged of 4 independent experiments, with approximately 20 embryos per group. * P < 0.05, **** P < 0.001. (B) Representative images taken at 5 dpi, highlighting the heterogeneity in disease phenotypes between the different isolates. Scale bars represent 1 mm. Red areas highlight the bacterial localisation using fluorescence microscopy. Data shown is the merge of three independent experiments (n=30/group for each replicate).

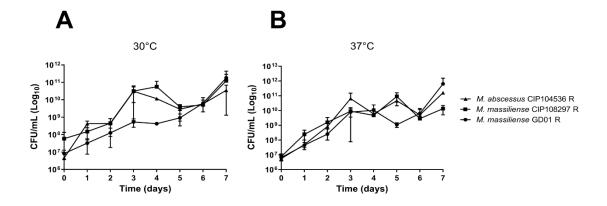
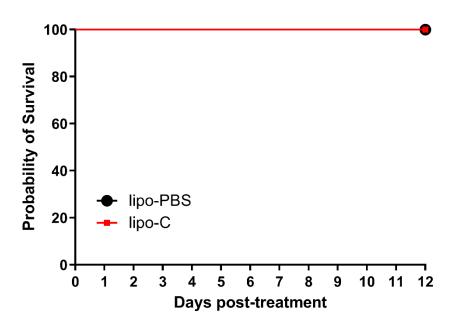


Fig. S2. Growth curves of rough strains carrying pTEC27 at 30°C and 37°C. M. abscessus CIP104536^T, M. massiliense CIP108297 and GD01 were grown for 7 days in Middlebrook 7H9 supplemented with OADC, 0.025% tyloxapol and 500 µg/ml hygromycin. CFU counts determined by plating serial dilutions onto in Middlebrook 7H10 and enumeration of the colonies after 4 days of incubation at 30°C (A) or 37°C (B). Data shown is the mean \pm standard deviation of two independent experiments run in triplicate.





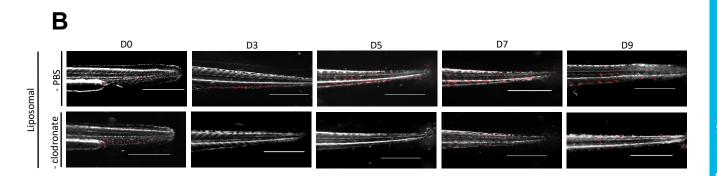


Fig. S3. Impact of liposomal-clodronate on zebrafish survival and macrophage depletion. Tg(mpeg1:mCherry) embryos harbouring red fluorescent macrophages were injected with 3 nL of either liposomal-PBS (lipo-PBS) or liposomal-clodronate (lipo-C) in the caudal vein at 24 hpf. (A) Embryo survival was monitored daily over a 12 day period (n=30/group). (B) Representative images of zebrafish tails showing transient macrophage depletion with lipo-clodronate. Macrophages are labelled in red. Scale bars represent 500 μ m.

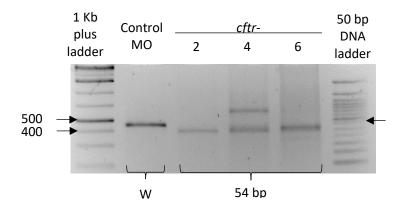


Fig. S4. Targeted knockdown of cftr using splincing morpholino in embryos. cftr specific products were amplified from RNA isolated from whole embryos at 2, 4 and 6 dpf. The cftr-MO blocks normal splicing resulting a deletion in exon 3, resulting in a 54 bp deletion in exon 3, and leading to the knockdown of CFTR expression (Bernut et al., 2019; Johansen and Kremer, 2020a).

Table S1. Drug susceptibility/resistance profile of *M. massiliense* GD01. Rough *M. abscessus* CIP104536^T and *M. massiliense* CIP108297^T were included for comparison. MIC (μ g/mL) were determined after 4 days of incubation, following the CLSI guidelines.

Strain	MIC (μg/mL)														
(morphotype)	IPM	CFX	CLR ¹	TGC	CFZ	AMK	CIP	ZEO	KAN	BDQ	LNZ	GEN	RFB	Cpd12	E JMCh-6
M. abscessus (R)	16	64	4	1	1	64	128	32	16	0.03	64	64	12.5	0.06	0.125
M. massiliense (R)	32	64	0.5	2	0.5	32	64	>128	16	0.06	64	64	25	0.06	0.125
GD01 (R)	32	64	>128	2	0.5	>128	64	>128	>128	0.015	64	> 128	25-50	0.25	0.125-0.25

IPM, imipenem; CFX, cefoxitin; CLR, clarithromycin; TGC, tigecycline; CFZ, clofazimine; AMK, amikacin; CIP, ciprofloxacin; ZEO, zeocin; KAN, kanamycin; BDQ, bedaquiline; LNZ, linezolid; GEN, gentamycin; RFB, rifabutin; Cpd12, indole-2 carboxamide; EJMCh-6, benzimidazole.