**Supplementary Material**

Targeting plasmid-encoded proteins that contain immunoglobulin-like domains to combat antimicrobial resistance.

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**Supplementary File 1a**. List of the strains and plasmids used in this work.

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| Strain | Genotype and relevant properties | Reference |
| *E. coli* DH10BT1R | F- *mcrA* Δ*mrr-hsdRMS-mcrBC* φ80lacZDM15 Δ*lacX74 recA1 endA1 araD139* Δ(*ara,leu*) *7697 galU galK rpsL (StrR) nupG tonA λ* | Invitrogen |
| *E. coli* BL21DE3 | *hsdS, gal, (λclts857, ind1, Sam7, nin5, lac-UV5-T7gene1)* | (Studier and Moffatt, 1986) |
| *S.* Typhimurium SL1344 | *rspLhisG* | (Hoiseth and Stocker, 1981) |
| *S.* Typhimurium SL1344 *ibpA::lacZ-Kmr* | *rspLhisG ibpA::lacZ-Kmr* | (Hüttener et al., 2018) |
| *S.* Typhimurium SL1344 *flhDC::Km*  | *rspLhisG flhDC::Km* | This work |

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| Plasmid | Description | Reference |
| R27 | IncHI1, Tcr | (Grindley et al., 1972) |
| R27 Δ*rsp* | R27 *rsp*::FRT | (Hüttener et al., 2019) |
| pHCM1 | IncHI1, Ampr | (Parkhill et al., 2001) |
| pKD4 | *bla* (Apr) FRT *ahp* FRT PS1 PS2 oriR6K Kmr | (Datsenko and Wanner, 2000) |
| pKD46 | *bla* (Apr) PBAD *gam bet exo* pSC101 oriTS | (Datsenko and Wanner, 2000) |
| pNeae2 | pNeae-derivative; for fusions to Neae-myc [IntiminEHEC (1-654)-E-His-myc tag | (Salema et al., 2013) |
| pNeae2 VHH-RSP #3 | VHH against RSP protein fused to Neae-myc [IntiminEHEC (1-654)-E-His-myc tag | This work |
| pNVFib1 | pNeae-myc-derivative; NVFib (clone 1) fusion [IntiminEHEC (1-654)-E-VFIBn-myc tag] | (Salema et al., 2016) |
| pMAL-RSP #5/7 | pMAL-p2E derivative, for fusion of C-terminal of RSP to MBP | This work |
| pIgΔCH1 | pIgγ1HC derivative vector lacking human IgG CH1 domain | (Casasnovas et al., 2022) |
| pIgΔCH1 VHH-RSP | IgH signal peptide, VHH-RSP fused to the human IgG1 hinge and Fc portion (Fc) | This work |

**Supplementary File 1b**. List of the oligonucleotides used in this work.

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| Oligonucleotide | Sequence (5’-3’) |
| RSP5 BamHI Fw | 5’ CGGGATCCTGGGGTGTATAAGTTTCCT 3’ |
| RSP PstI Rv | 5’ AACTGCAGTTACTGCGAGGTTTCAAC 3’ |
| flhDC p1 | 5’GGCTACGTCGCACAAAAATAAAGTTGGTTATTCTGGATGGGAGTGTAGGCTGGAGCTGCTTC 3’ |
| flhDC p2 | 5’TTACCGCTGCTGGAGTGTTTGTCCACACCGTTTCGGTTAAACCATATGAATATCCTCCTTAGT 3’ |
| flhDC p1 up | 5’ CGTTGTATGTCACGAAGCTGAC 3’ |
| flhDC p2 down | 5’ GCTGTTGACTATGACAGGATGC 3’ |
| VHH Sfi | 5’ GTCCTCGCAACTGCGGCCCAGCCGGCCATGGCTCAGGTGCAGCTGGTG GA 3’ |
| VHH Not | 5’ GGACTAGTGCGGCCGCTGAGGAGACGGTGACCTGGGT 3’ |
| VHH pIg AgeI | 5’ ACTGCAACCGGTGTACATTCTCAGGTGCAGCTGGTGGA 3’ |
| VHH pIg BamHI | 5’ ACCGGATCCACGCGGAACCAGCGCTGAGGAGACGGTGACCTG 3’ |
| *Il-1* βFw | 5’ GGTCAAAGGTTTGGAAGCAG 3’ |
| *Il-1* βRv | 5’ TGTGAAATGCCACCTTTTGA 3’ |
| *Il*-6 Fw | 5’ TGTGAAATGCCACCTTTTGA 3’ |
| *Il*-6 Rv | 5’ GGTCAAAGGTTTGGAAGCAG 3’ |
| *Tnf-α* Fw | 5’ CCACCACGCTCTTCTGTCTAC 3’ |
| *Tnf-α* Rv | 5’ AGGGTCTGGGCCATAGAACT 3’ |
| *Hprt1* Fw | 5’ TGGATACAGGCCAGACTTTGTT 3’ |
| *Hprt1* Rv | 5’ CAGATTCAACTTGCGCTCATC 3’ |