

Table S1. List of the primers used to construct and verify the *Salmonella* mutant strains.

mutant strain	Strain reference	GFP-tagged strain reference	Oligos for mutant strains	Oligos for verification
<i>ΔsopD</i>	JVS-2890	JVS-8706	JVO-2463- TATCGTCACCACAAAGGATTACCAACCATAAATGTGCTGTGTAGGCTGGAGCTGCTTC JVO-2464- TCCGGCAGGCAGCCGGATTTTAAATTGGTTATATTACTGAGGTCCATATGAATATCCTCCTTAG	JVO-1919- CCAGTAACCCACAGCC JVO-1920- TGCATGAAGGGTAATTGTC
<i>ΔpipB</i>	JVS-3453	JVS-8693	JVO-3048- ATGTGACTTGACTCACACCTATAAGGAGTCGGCTCACTTCGTGTAGGCTGGAGCTGCTTC JVO-3049- GTAACGCTATGATTACAGACAAAGCCAACAAGTAATACGCTGGTCCATATGAATATCCTCCTTAG	JVO-3100- TGTCAGATGCCAGACACC JVO-3101- ATCTGTAGGTGACCGGAAG
<i>ΔgogB</i>	JVS-3455	JVS-8689	JVO-3050- ACGATCGGTATTAGGCTAGGTTCTAAATCTTGCTGAATGGTGTAGGCTGGAGCTGCTTC JVO-3051- ACTCCAATAGGCTGCTCTATATATAAATATATTAATTGCGGTCCATATGAATATCCTCCTTAG	JVO-3096- CAGTCAGTCTGACTAAACAGC JVO-3097- CCTTGCCAAACAGATATGTAG
<i>ΔpipB2</i>	JVS-3469	JVS-8694	JVO-3046- ATGGAGCGTTCCTACTCGATAGTCTGGCTGGTATGGCTAAGTGTAGGCTGGAGCTGCTTC JVO-3047- CTCTCAGCTACTATTACAGTACGAGATTGTTATTCTTACATGGTCCATATGAATATCCTCCTTAG	JVO-3098- AGCAACGCGTGTGATAC JVO-3099- ACAGGCACCTTATACATCCAGG
<i>ΔsifA</i>	JVS-3471	JVS-8690	JVO-3136- TCCTTACCAACTCCCAAGGAATACGAAAGAAGCATGGTGGTGTAGGCTGGAGCTGCTTC JVO-3137- TCCGATCCGGTCCATATGCGGCATTATTGTGCCTGGCAAGGGTCCATATGAATATCCTCCTTAG	JVO-3138- ACGCTATCACAGACAGTAATGC JVO-3139- AGCCAGGAAGAAGCAAGC
<i>ΔslrP</i>	JVS-3473	JVS-8695	JVO-3054- ATCCTTATCTGTTACTTTAGGTTACGTTACAGATCAGGTAGGTGTAGGCTGGAGCTGCTTC JVO-3055- AGTAGTACGCTCTGCGTCAGAGTCGCTGCTATTCTTAGGTCCATATGAATATCCTCCTTAG	JVO-3104- AGCGTGTGATGGCAACAG JVO-3105- TCATGAGCGAGCTCACCTC
<i>ΔsifB</i>	JVS-3582	JVS-8696	JVO-3170- AATCACTTGTGGTCTACATTATGCCAATTACTATCGGGAGGTGTAGGCTGGAGCTGCTTC JVO-3171- TCCATACTATTTATGGTGTGATCAACTCTGGTGTAGGCTGGTCCATATGAATATCCTCCTTAG	JVO-3172- ATGTTGACGGTTCAGGAC JVO-3173- AACGAGCCAATTCGTTTC
<i>ΔspvB</i>	JVS-3621	JVS-8707	JVO-3187- TCGTCAGACGGCCAGTTTCAGGAGATAGTGTATGTTGATACGTGTAGGCTGGAGCTGCTTC JVO-3188- AGCTGGCTTGCAAAGTCTTGGGATCCACAATTTACAATGCGGTCCATATGAATATCCTCCTTAG	JVO-3189- TAGAGCAGACGCTGTAAGC JVO-3190- TGTGTCAGCAGTTGCATC
<i>ΔspvC</i>	JVS-3622	JVS-8708	JVO-3191- AAACATCCCTCCTTTGAATATTGTAGCTGCTTATGATGGGGTGTAGGCTGGAGCTGCTTC JVO-3192- TTAGTGTCCGGTGTCTCCCAAACCCATACTACTCTGTGCGGTCCATATGAATATCCTCCTTAG	JVO-3193- ATCCATATCGCAAAGGAG JVO-3194- ATGAGCGTTATTCTTTACG
<i>ΔsseF</i>	JVS-3623	JVS-8699	JVO-3195- AGTCGATGGTAATAGTCTCTTCCGATATACAAGCGAAGGTGTAGGCTGGAGCTGCTTC JVO-3196- AGGCAATAATCCAGTACCGCACCTATCGCCGTGAGGCTAACGGTCCATATGAATATCCTCCTTAG	JVO-3197- TCATGGAGTGAGATTGCGC JVO-3198- ATCGGCATGAAGTTTCATC
<i>ΔsseG</i>	JVS-3624	JVS-8700	JVO-3199- ATTGCCACATCCGGAAACCAATATGGAGAGTGGTAGAATAGTGTAGGCTGGAGCTGCTTC JVO-3200- ATTGCCACATCCGGAAACCAATATGGAGAGTGGTAGAATAGTGTAGGCTGGAGCTGCTTC	JVO-3201- TGGACAGTTCTGATCATAATC JVO-3202- TGTCTGCGGTTACCTGAG
<i>Δssel</i>	JVS-3626	JVS-8701	JVO-3203- TATGCCCTTTTCATATTGGAAGCGGATGTCTTCCCGCCATCGTGTAGGCTGGAGCTGCTTC JVO-3204- ATCGCCGATTGACAGGGTCTGACAGACGTCCTCCACGGGTCCATATGAATATCCTCCTTAG	JVO-3205- AGGAAGAGATGATGTCTGTGCG JVO-3206- TCTGTCATCTGTGATAGTGTCC
<i>ΔsseK1</i>	JVS-3627	JVS-8703	JVO-3178- TTATGATCCCACCATTAAATAGATATGTTCCCGCGCTTTCGTGTAGGCTGGAGCTGCTTC JVO-3179- TTCAATAGCATGATTATTGCCATTTCCGCTACTGCACATGGGTCCATATGAATATCCTCCTTAG	JVO-3180- TAGCTGACAGCGATTGCAAC JVO-3181- TGCCGTATATCTCCGTTCTG

<i>ΔsseL</i>	JVS-3628	JVS-8705	JVO-3211- ACAGCTTATATACAGAAGAGGTGAGCGATGAGGCGCTTACGTGTAGGCTGGAGCTGCTTC JVO-3212- ACCACAGCCGTTGGGTACATTGTTCTGTAAATTCATTCGGTCCATATGAATATCCTCCTTAG	JVO-3213- TTCGCTACTTTCCTTACCAG JVO-3214- AGTGTGGTAGCAGGATCG
<i>ΔsteC</i>	JVS-3630	JVS-8711	JVO-3227- AGTTGCCAGATATCAGAAAGGTATTTAAGAGATATCATCGGTGTAGGCTGGAGCTGCTTC JVO-3228- TTCATCCTTTAATACCTTAGCCACAAGAGTCCCTTCCCGGTCCATATGAATATCCTCCTTAG	JVO-3229- TCAGAGGATGAGACATATGC JVO-3230- ATCTGTAGCGAATGTGCC
<i>ΔsteA</i>	JVS-3632	JVS-8709	JVO-3219- AGGATATGCCATATACATCAGTTTCTACCTATGCCAGAGCGGTGTAGGCTGGAGCTGCTTC JVO-3220- TGAGGTAAGGCATTATATGCTGCCATTCGCTCTCTGACGGGGTCCATATGAATATCCTCCTTAG	JVO-3221- TCGTCATAATGAGAGAGGAGTAG JVO-3222- AGAATCTCTTTGCGACACG
<i>ΔspiC</i>	JVS-3634	JVS-8691	JVO-3174- ATAGAACTCCATTTATGCTGTGAGGAGGATTCATGCGTGTAGGCTGGAGCTGCTTC JVO-3175- TACTTGTGGTATAATAACCGTTTAACCATCCCCATCCGCGGTCCATATGAATATCCTCCTTAG	JVO-3176- AGGTATATGTAGACAGCATCC JVO-3177- AATAGCAATAAGCTCAGAGC
<i>ΔsseK2</i>	JVS-3637	JVS-8704	JVO-3182- TCCCGGATTAGAGGTTTGATTTTCATGTCAAAGTAATACTCGTGTAGGCTGGAGCTGCTTC JVO-3183- AATGCTGGATGCTCGCTGCGGTTAACAGCAATAATCCGGTCCATATGAATATCCTCCTTAG	JVO-3184- TTAGCATTGTGACGTTAACG JVO-3185- AACCTTTACTGAGCCAGTC
<i>ΔsspH2</i>	JVS-3639	JVS-8692	JVO-3215- TCAGTAATCGCCGATTTATCGTATTGCCTGGTCTGATACGTGTAGGCTGGAGCTGCTTC JVO-3216- TATCTTTGTGCGACCCGACCTCATTCACTGGTGCATCAGGGTCCATATGAATATCCTCCTTAG	JVO-3217- ATGCCCTTTCATATTGGAAG JVO-3218- ACCTGTACATCATCCGCTACTG
<i>ΔsteB</i>	JVS-3641	JVS-8710	JVO-3223- TCAGGTAATAATCCATGCCTATTTTCGATTTGTAACATGGGTGTAGGCTGGAGCTGCTTC JVO-3224 - AGTGACAGGTTAGCAGATGTTTCAGGCCAAACCAAGTTGGGTCCATATGAATATCCTCCTTAG	JVO-3225- TTCCAGGCTTAGTCAATGTG JVO-3226- AAGGACATGGCATGACAC
<i>ΔsseJ</i>	JVS-3642	JVS-8702	JVO-3207- AGCAGTCAGATAATATGTACCAGGCATTAACCTCACGTTGGTGTAGGCTGGAGCTGCTTC JVO-3208- ATGGACTTCTGGGTTGGATGGACAAGGTGCGTTGAAGACGGTCCATATGAATATCCTCCTTAG	JVO-3209- AGCTCATACTCACGCCAG JVO-3210- ATCGGCAGCAAGATAGC
<i>ΔsspH1</i>	JVS-3667	JVS-8698	JVO-3245- TCTGTAAGTATGCAGGCTATTGCTGGTGCAGCGGCACCAGGTGTAGGCTGGAGCTGCTTC JVO-3246- AAGCGTTCCGGCACTTTGCGTTCCAGCACGCTGTGTAACGGGTCCATATGAATATCCTCCTTAG	JVO-3247- ATGTTTAAATATCCGCAATACAC JVO-3248- TCAGCACTTCGTACATACAG
<i>ΔsopD2</i>	JVS-4373	JVS-8697	JVO-4032- ATGTGTCCAAAGAACGTTATGCGCTGTCCAGCGCCTGGCGGTGTAGGCTGGAGCTGCTTC JVO-4033- GAACAGCAGCAGGACGTTATTACTCGTACCTTCACGCAGACCATATGAATATCCTCCTTAG	JVO-3572- GTTTTTTGACGTCCATAGCGCCCTGGTTTTACT JVO-3037- GTTTTAACTCCCCTGACGAAAG
<i>ΔssaM</i>		JVS-8712	JVO-5227- AATATTCAGCTTTTTATTCAATTAGCAGGATTAGCTGAACGGTGTAGGCTGGAGCTGCTTC JVO-5228- GAGCTCGGCGGAGCTGGAAAGAGGTGGAGAACGGTCCATATGAATATCCTCCTTAG	JVO-5229- GATTGGGATCTCATTACTGAAC JVO-5230- GCGACTCCAGAAATTTTATTG
<i>ΔssaL</i>		JVS-8713	JVO-5231- GTTATTTGCGCTTCAATGTTAGCTCTCCAGGAGTTACGTGTAGGCTGGAGCTGCTTC JVO-5232- TCAGAATAAAACCTGATTTATCTTTACTTCCAGAAAGCGTTTCGAGGGTCCATATGAATATCCTCCTTAG	JVO-5233- GCCAGGTTATAGAGGAACAAG JVO-5234- GAGCCAGAAAGCCAATTTA
Δ SPI-2	JVS-1103	JVS-5294	The SPI-2 knockout strain was kindly provided by Karsten Tedin	
<i>ΔspiC</i> +pLuc		JVS-8714	JVS-8691 was transformed with the plasmid pXG0-amp	
<i>ΔspiC</i> +p <i>spiC</i>		JVS-8715	JVS-8691 was transformed with the plasmid pXG0-amp-SpiC	

$\Delta spvB$ +pLuc		JVS-8716	JVS-8707 was transformed with the plasmid pXG0-amp	
$\Delta spvB$ +pspvB		JVS-8717	JVS-8691 was transformed with the plasmid pXG0-amp-SpvB	
$\Delta spvB$ + pspvB_mut		JVS-8718	JVS-8691 was transformed with the plasmid pXG0-amp-SpvB_mut	