

Supplementary Table S1. List of sequenced bacteria containing *dfrA35* found in the NCBI GenBank database (accessed 30 November 2018).

Species	Strain	Origin	Country	Length in aa	Identity in %			NCBI Acc. No.	size of overlapping region (identity)	ISCR2- <i>dfrA35-sul2</i>
					aa	nt				
<i>E. coli</i>	2013C-4491	human	unknown	170	100	100	CP027355	48.7 kb (99%) complete	ISCR2- <i>dfrA35-sul2</i>	
<i>E. coli</i>	RiKo 2308/09 RIKO2308_155c	unknown	unknown	170	100	100	LCVI01000155	48.7 kb (99%) complete	ISCR2- <i>dfrA35-sul2</i>	
<i>E. coli</i>	364072-17	unknown	Switzerland	170	100	100	PYRP01000006	24.3 kb (99%)	'ISCR2- <i>dfrA35-NSA</i>	
<i>E. coli</i>	364062-17	unknown	Switzerland	170	100	100	PYSC01000001	24.3 kb (99%)	'ISCR2- <i>dfrA35-NSA</i>	
<i>E. coli</i>	364068-17	unknown	Switzerland	170	100	100	PYRX01000002	24.2 kb (99%)	'ISCR2- <i>dfrA35-sul2</i>	
<i>E. coli</i>	ecoli006	human	unknown	170	100	100	UWV101000001	23.8 kb (99%)	ISCR2- <i>dfrA35-sul2</i>	
<i>E. coli</i>	NT2	cattle	Czech Republic	170	100	100	QYZN01000009	23.8 kb (99%)	ISCR2- <i>dfrA35-sul2</i>	
<i>E. coli</i>	22593	cattle	France	170	100	100	LMBK01000112	21 kb (99%)	'ISCR2- <i>dfrA35-sul2</i>	
<i>E. coli</i>	MS 124-1	human	unknown	170	100	100	ADWT01000099	6 kb (100%)	NSA- <i>dfrA35-sul2</i>	
<i>E. coli</i>	G76	mastitis/cattle	Germany	170	100	100	LOPR01000045	5.8 kb (100%)/1.2 kb (84%)	NSA- <i>dfrA35-sul2</i>	
<i>E. coli</i>	RiKo 2305/09 RIKO2305_49c	unknown	unknown	170	100	100	JYPB01000049	5.8 kb (99%)	NSA- <i>dfrA35-sul2</i>	
<i>E. coli</i>	GER_MD02_1511_Eco_064	fecal/dog	Germany	170	100	100	PURJ01000057	5.8 kb (100%)	NSA- <i>dfrA35-sul2</i>	
<i>E. coli</i>	GER_MD06_1511_Eco_062	fecal/dog	Germany	170	100	100	PURL01000057	5.8 kb (100%)	NSA- <i>dfrA35-sul2</i>	
<i>E. coli</i>	MS 84-1	human	unknown	170	100	100	ADTK01000026	5.5 kb (99%)	NSA- <i>dfrA35-sul2</i>	
<i>Acinetobacter sp</i>	ANC 5318	nose/horse	Czech Republic	170	100	100	PGPB01000023	3 kb (100%)/1kb (100%)	'ISCR2- <i>dfrA35-NSA</i>	
<i>E. coli</i>	MS 85-1	human	unknown	170	100	100	ADWQ01000115	2.3 kb (99%)	NSA- <i>dfrA35-sul2'</i>	
<i>E. coli</i>	364073-17	unknown	Switzerland	170	100	100	PYRU01000163	2.3 kb (100%)	NSA- <i>dfrA35-sul2'</i>	
<i>E. coli</i>	GER_MD08_1505_Eco_019	fecal/dog	Germany	170	100	100	PUSY01000104	2.3 kb (100%)	NSA- <i>dfrA35-sul2'</i>	
<i>E. coli</i>	GER_MD08_1505_Eco_035	fecal/dog	Germany	170	100	100	PUSL01000111	2.2 kb (100%)	NSA- <i>dfrA35-sul2'</i>	
<i>E. coli</i>	RiKo 2340/09 RIKO2340_126c	unknown	unknown	170	100	100	LAGW01000126	2.1 kb (100%)	NSA- <i>dfrA35-sul2'</i>	
<i>E. coli</i>	G213	mastitis/cattle	Israel	170	100	100	LOOH01000094	2.1 kb (100%)	NSA- <i>dfrA35-sul2'</i>	
<i>E. coli</i>	STEC 514-2 514-2	calf	Israel	170	100	100	MRVZ01000194	1.8 kb (100%)	NSA- <i>dfrA35-NSA</i>	
<i>E. coli</i>	364064-17	unknown	Switzerland	170	100	100	PYSA01000272	1.8 kb (100%)	NSA- <i>dfrA35-NSA</i>	
<i>E. coli</i>	STEC 573-4 573-4	cow	Israel	170	100	100	MRWA01000125	1.7 kb (100%)	NSA- <i>dfrA35-NSA</i>	
<i>E. coli</i>	31_Esco_HA-NL 130741A	human	Netherlands	170	100	100	NXOD01000140	1.6 kb (100%)	NSA- <i>dfrA35-NSA</i>	
<i>E. coli</i>	RefSeq.	hospital	unknown	170	100	100	WP_024198497	no DNA sequence	no DNA sequence	
<i>Gammaproteobacteria</i>	RefSeq.	unknown	unknown	170	100	100	WP_000949574	no DNA sequence	no DNA sequence	

' : truncated

NSA: No sequence available due to termination of the contig