

Supplementary Table 1. List of analyzed *E. coli* strains for the prototype core variome database.

Strain	Origin	Syndrome	Pathotype
UTI89	Human	Cystitis	Extraintestinal (ExPEC)
536		Pyelonephritis	
CFT073		Pyelonephritis	
IAI39		Urinary tract infection	
UMN026		Urinary tract infection	
S88		Neonatal meningitis	
<i>S. boydii</i> (Sb227)		Diarrhea	<i>Shigella</i>
<i>S. sonnei</i> (Ss046)		Diarrhea	
<i>S. flexneri</i> (Sf_5a str. 8401)		Diarrhea	
<i>S. dysenteriae</i> (Sd197)		Diarrhea	
55989		Gastroenteritis	
042	Diarrhea		
EDL933		Diarrhea	Enterohemorrhagic (EHEC)
E2348/69		Diarrhea	
E24377A		Diarrhea	Enterotoxigenic (ETEC)
MG1655		Healthy	Non-clinical
IAI1		Healthy	
ATCC 8739		Healthy	
HS		Healthy	
SE11		Healthy	
Ed1a		Healthy	
SECEC SMS-3-5		Environment	

Supplementary Table 2. List of analyzed *S. enterica* strains for the prototype core variome database.

Strain	Origin	Serovar	Pathotype
LT2	Human	Typhimurium	Enteric
D23580	Human	Typhimurium	
14028S	Chicken	Typhimurium	
P125109	Human	Enteritidis	
SL476	Human	Heidelberg	
SL483	NA	Agona	
SL254	NA	Newport	
CVM19633	NA	Schwarzengrund	
SC-B67	Human	Choleraesuis	Systemic
CT_02021853	NA	Dublin	
SPB7	Human	Paratyphi B	
287/91	Chicken	Gallinarum	
CT18	Human	Typhi	
Ty2	Human	Typhi	
ATCC 9150	Human	Paratyphi A	
AKU_12601	Human	Paratyphi A	
RKS4594	Human	Paratyphi C	

NA: information not available