

Table S2. Strains and plasmids used in this study

| Strains | Genotype or description | Source or reference |
|------------------------------|---|---------------------|
| G2734 | Wild-type EHEC O157:H7 EDL933 | ATCC* |
| $\Delta uvrY$ | <i>uvrY</i> deletion mutant in G2734 | This study |
| Δler | <i>ler</i> deletion mutant in G2734 | This study |
| $\Delta barA$ | <i>barA</i> deletion mutant in G2734 | This study |
| $\Delta ler\Delta uvrY$ | <i>ler</i> and <i>uvrY</i> double deletion mutant in G2734 | This study |
| $\Delta uvrY^+$ | $\Delta uvrY$ containing pTrc99a- <i>uvrY</i> | This study |
| $\Delta ler\Delta uvrY^+$ | $\Delta ler\Delta uvrY$ double deletion mutant containing pTrc99a- <i>uvrY</i> | This study |
| <i>uvrY</i> -6 x His | BL21(DE3) containing pET28a- <i>uvrY</i> | This study |
| <i>uvrY</i> -3 x FLAG | $\Delta uvrY$ containing pTRC99a- <i>uvrY</i> -3×FLAG | This study |
| Plasmids | | |
| pKD3 | Containing a chloramphenicol resistance cassette and the flipase recognition sites, CmR | BfR† |
| pKD4 | Containing a kanamycin resistance cassette and the flipase recognition sites, KmR | BfR† |
| pKD46 | Red recombination plasmid, ApR | Lab collection |
| pET28a | T7 expression vector, KmR | Lab collection |
| pTRC99a | Expression vector, ApR | Lab collection |
| pTRC99a- <i>uvrY</i> -3×FLAG | pTRC99a carrying <i>uvrY</i> -3x FLAG, ApR | This study |
| pTRC99a- <i>uvrY</i> | pTRC99a carrying <i>uvrY</i> , ApR | This study |
| pET28a- <i>uvrY</i> | pET28a carrying <i>uvrY</i> , KmR | This study |

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