Supplementary Table S1. List of 65 fatty acids from this study. Nine fatty acids indicated as **bold** were selected for further screening.

| No. | Name                                      | MW   | CAS          |
|-----|-------------------------------------------|------|--------------|
| 1   | Decanoic acid                             | 172.3| 334-48-5     |
| 2   | Undecanoic acid                           | 186.3| 112-37-8     |
| 3   | 10-Undecenoic acid                        | 184.3| 112-38-9     |
| 4   | Lauric acid (Dodecanoic acid)             | 200.3| 143-07-7     |
| 5   | 11-Dodecanoic acid                        | 198.3| 65423-25-8   |
| 6   | N-tridecanoic acid (tridecanoic acid)     | 214.3| 638-53-9     |
| 7   | 12-Methoxydodecanoic acid                | 230.3| 92169-28-3   |
| 8   | 12-Tridecanoic acid                       | 212.3| 6006-06-0    |
| 9   | Myristic acid (Tetradecanoic acid)        | 228.4| 544-63-8     |
| 10  | 9(Z)-Tetradecenoic acid                  | 226.4| 544-64-9     |
| 11  | 9(E)-Tetradecenoic acid                  | 226.4| 544-64-9     |
| 12  | Pentadecanoic acid                       | 242.4| 1002-84-2    |
| 13  | 10(Z)-Pentadecenoic acid                 | 240.4| 84743-29-3   |
| 14  | 10(E)-Pentadecenoic acid                 | 240.4| 321744-58-5  |
| 15  | Hexadecanoic acid                        | 256.4| 57-10-3      |
| 16  | 9(Z)-Hexadecenoic acid                   | 254.4| 373-49-9     |
| 17  | 9(E)-Hexadecenoic acid                   | 254.4| 10030-73-6   |
| 18  | Heptadecanoic acid                       | 270.5| 506-12-7     |
| 19  | 10(Z)-Heptadecenoic acid                 | 268.4| 29743-97-3   |
| 20  | 10(E)-Heptadecenoic acid                 | 268.4| 126761-43-1  |
| 21  | Octadecanoic acid                        | 284.5| 57-11-4      |
| 22  | 6(Z)-Octadecenoic acid                   | 282.5| 593-39-5     |
| 23  | 6(E)-Octadecenoic acid                   | 282.5| 593-40-8     |
| 24  | 9(Z)-Octadecenoic acid                   | 282.5| 112-80-1     |
| 25  | Eliadic acid (9(E)-Octadecenoic acid)     | 282.5| 112-79-8     |
| 26  | 11(Z)-Octadecenoic acid                  | 282.5| 506-17-2     |
| 27  | 11(E)-Octadecenoic acid                  | 282.5| 693-72-1     |
| 28  | 9(Z), 11(Z)-octadecadienoic acid         | 280.4| 60-33-3      |
| 29  | (9Z,11E)-Octadecadienoic acid            | 280.4| 2540-56-9    |
| 30  | 9(E),12(E)-Octadecadienoic acid          | 280.4| 506-21-8     |
| 31  | 9(Z), 12(Z), 15(Z)-Octadecatrienoic acid | 278.4| 463-40-1     |
| 32  | 6(Z), 9(Z), 12(Z)-Octadecatrienoic acid  | 278.4| 506-26-3     |
| 33  | Nonadecanoic acid                        | 298.5| 646-30-0     |
| 34  | 7(Z)-Nonadecanoic acid                   | 296.5| 118020-79-4  |
| 35  | 7(E)-Nonadecanoic acid                   | 296.5| 191544-99-7  |
| 36  | 10(Z)-Nonadecanoic acid                  | 296.5| 73033-09-7   |
| 37  | 10(E)-Nonadecanoic acid                  | 296.5| 147527-21-7  |
|   | Name                                                                                     | Molecular Formula | PubChem CID | CAS Number  |
|---|--------------------------------------------------------------------------------------------------------------------------------|------------------|-------------|-------------|
| 38| 10(Z),13(Z)-Nonadecadienoic acid                                                                                             | 294.5            | 29204-20-4 |
| 39| 6(Z), 9(Z), 12(Z), 15(Z)-Octadecatetraenoic acid                                                                               | 276.4            | 115610-41-8|
| 40| Eicosanoic acid                                                                                                                | 312.5            | 506-30-9   |
| 41| 11(E)-Eicosenoic acid                                                                                                         | 310.5            | 62322-84-3 |
| 42| 8(Z)-Eicosenoic acid                                                                                                          | 310.5            | 76261-96-6 |
| 43| 11(Z)-Eicosenoic acid                                                                                                         | 310.5            | 5561-99-9  |
| 44| 5(Z)-Eicosenoic acid                                                                                                          | 310.5            | 7050-07-9  |
| 45| 5(Z), 8(Z)-Eicosadienoic acid                                                                                                 | 308.5            | 125535-07-1|
| 46| 5(Z),8(Z)-7Dimethyleicosadienoic acid                                                                                        | 336.6            | 89560-01-0 |
| 47| 11(Z), 14(Z)-Eicosadienoic acid                                                                                               | 308.5            | 2091-39-6  |
| 48| 5(Z), 8(Z), 11(Z)-Eicosatrienoic acid                                                                                         | 306.5            | 20590-32-3 |
| 49| 8(Z), 11(Z), 14(Z)-Eicosatrienoic acid                                                                                         | 306.5            | 1783-84-2  |
| 50| 11(Z), 14(Z), 17(Z)-Eicosatrienoic acid                                                                                       | 306.5            | 2091-27-2  |
| 51| 5(Z), 8(Z), 11(Z), 14(Z)-Eicosatetraenoic acid                                                                                | 304.5            | 506-32-1   |
| 52| 5(Z), 8(Z), 11(Z), 14(Z), 17(Z)-Eicosapentaenoic acid                                                                          | 302.5            | 10417-94-4 |
| 53| Heneicosanoic acid                                                                                                            | 326.6            | 2363-71-5  |
| 54| 12(Z) Heneicosenoic acid                                                                                                      | 324.5            | 3515-84-2  |
| 55| 13(Z)-Docosenoic acid                                                                                                         | 338.6            | 112-86-7   |
| 56| 13(E)-Docosenoic acid                                                                                                         | 338.6            | 506-33-2   |
| 57| 13(Z),16(Z)-Docosadienoic acid                                                                                               | 336.6            | 17735-98-7 |
| 58| 13(Z), 16(Z), 19(Z)-Docosatrienoic acid                                                                                       | 334.5            | 28845-86-5 |
| 59| 7(Z), 10(Z), 13(Z), 16(Z)-Ocosatetraenoic acid                                                                                | 332.5            | 28874-58-0 |
| 60| 7(Z), 10(Z), 13(Z), 16(Z), 19(Z)-Docosapentaenoic acid                                                                          | 330.5            | 2234-74-4  |
| 61| 4(Z), 7(Z), 10(Z), 13(Z), 16(Z), 19(Z)-Docosahexaenoic acid                                                                      | 328.5            | 6217-54-5  |
| 62| 14(Z)-Tricosenoic acid                                                                                                        | 352.6            | 105305-008 |
| 63| 14(E)-Tricosenoic acid                                                                                                        | 352.6            | 164414-85-1|
| 64| Tetracosanoic acid                                                                                                            | 368.6            | 557-59-5   |
| 65| 15(Z)-Tetracosenoic acid                                                                                                      | 366.6            | 506-37-6   |
Supplementary Figure S1. Persister formation of hipB mutant. Exponentially grown BW25113 ΔhipB cells were exposed to 5 μg/ml of ciprofloxacin and 1 mM of undecanoic acid, lauric acid, and N-tridecanoic acid for 6 and 48 h in LB medium. Error bars indicate the standard deviation of two independent cultures with three replicates.
Supplementary Figure S2. Stationary phase persister cell formation. Overnight *E. coli* BW25113 and EHEC cells were exposed to 5 μg/ml of ciprofloxacin and 1 mM of undecanoic acid, lauric acid, and N-tridecanoic acid for 3, 6, 24, 48, and 72 h in LB medium. Error bars indicate the standard deviation of two independent cultures with three replicates.