**Table S1: Putative CRP binding targets on ETEC plasmids p948 and p666 identified by PREDetector**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Bina** | **Predicted CRP siteb** | **SCOREc** | **TARGETd** | **Bound *in vitro* (n.d. = not done)e** |
| 13 to 14 | ttt**tgtga**aattaa**tcaca**aaa | 13.78 | ETEC\_p666\_0090 | Yes |
|  | taaa**gtga**taaaaa**tcaca**taa | 13.77 | ETEC\_p948\_0870c, aatC | Yes |
| 12 to 13 | ttt**tgtga**tgtgta**tcata**cta | 12.57 | ETEC\_p948\_0360c, estA2 | Yes |
| 11 to 12 | ttt**t**a**tga**aatcaa**tcaca**aaa | 11.82 | ETEC\_p666\_0110 | No |
|  | ata**t**t**tga**acgaag**tca**a**a**ttt | 11.1 | ETEC\_p666\_0360, traJ | Yes |
| 10 to 11 | taa**tgt**a**a**aataaa**t**t**a**a**a**ata | 10.5 | ETEC\_p948\_0510 | No |
|  | ttt**tgtga**gttgca**tca**tgtta | 10.41 | ETEC\_p666\_0750, estA1 | Yes |
| 9 to 10 | ata**tgtga**tattaa**t**ag**ca**caa | 9.86 | ETEC\_p948\_0410, cfaC | No |
|  | tta**t**t**tga**agcaaa**tca**acttt | 9.85 | ETEC\_p948\_0490, traJ | n.d. |
|  | taa**tgtga**ttttga**t**a**a**tgaaa | 9.62 | ETEC\_p948\_0230c, repA2 | n.d. |
|  | aac**t**t**t**a**a**taaacac**caca**tta | 9.56 | ETEC\_p948\_0830 | n.d. |
|  | att**t**t**tga**tatgtc**t**g**aca**tta | 9.53 | ETEC\_p948\_0700 | n.d. |
|  | att**t**t**t**t**a**tatata**t**tg**ca**tta | 9.5 | ETEC\_p948\_0700 | n.d. |
|  | aat**t**a**tga**tgttgta**ca**t**a**taa | 9.36 | ETEC\_p58\_0005 | n.d. |
|  | aag**tg**c**ga**atctat**t**a**aca**ata | 9.08 | ETEC\_p948\_0800 | n.d. |
|  | aaa**t**aa**ga**tacaca**t**a**a**a**a**aaa | 9 | ETEC\_p52\_0001 | n.d. |
|  | att**tgtga**atcact**tcac**gacc | 9 | ETEC\_p52\_0006, rop | n.d. |
| 8 to 9 | ttt**tgtg**gagtggg**t**t**a**a**a**tta | 8.89 | ETEC\_p948\_0510 | No |
|  | aaac**gt**t**a**ctacgt**tcac**gttt | 8.73 | ETEC\_p666\_0880, relE | n.d. |
|  | aaaat**tg**taataga**t**a**a**a**a**aaa | 8.63 | ETEC\_p948\_0910, cexE | n.d. |
|  | atag**gt**a**a**atctgt**tca**a**a**aaa | 8.62 | ETEC\_p948\_0790 | n.d. |
|  | tgca**gt**a**a**ttaacg**tcaca**ttt | 8.59 | ETEC\_p948\_0020, eatA | n.d. |
|  | aaa**tg**c**ga**tgaagc**t**a**a**t**a**aat | 8.46 | ETEC\_p666\_0560, stbB | n.d. |
|  | aaac**g**g**ga**agctaa**tc**g**ca**taa | 8.43 | ETEC\_p948\_0530 | n.d. |
|  | aatct**tga**aaaata**t**a**ac**caaa | 8.28 | ETEC\_p948\_0870 | n.d. |
|  | tac**tgtga**attaat**t**a**ac**gttg | 8.28 | ETEC\_p948\_0120, etpB | n.d. |
|  | aat**tgtg**gaagaaa**t**t**aca**atg | 8.25 | 40522 -> 40543 | n.d. |
|  | ttt**t**act**a**tcaata**tca**t**a**tta | 8.24 | ETEC\_p666\_0750, sta1 | n.d. |
|  | ataat**tga**tataca**t**a**a**actta | 8.16 | ETEC\_p948\_0990 | n.d. |
|  | ttt**t**c**tga**atgaga**tc**g**c**cttt | 8.14 | ETEC\_p58\_0001 | n.d. |
|  | caa**tgt**t**a**tttata**tca**ttaaa | 8.12 | ETEC\_p948\_0990 | n.d. |
|  | taa**t**a**t**c**a**aataaag**caca**act | 8.08 | ETEC\_p948\_0120, etpB | n.d. |
|  | aaa**tgt**attccgtc**tcaca**tgt | 8.04 | ETEC\_p948\_0700 | n.d. |
|  | ttt**tgtga**ttttcta**c**tatatt | 8.04 | ETEC\_p948\_0890c | n.d. |
| 7 to 8 | att**t**t**t**t**a**acaact**t**t**a**t**a**ttt | 7.98 | ETEC\_p948\_0890c | No |
|  | aaa**t**t**t**t**a**tctaaaga**a**a**a**taa | 7.9 | 42550 -> 42571 | n.d. |
|  | aaagaca**a**cataaa**t**a**aca**ttt | 7.9 | ETEC\_p948\_0020c, eatA | n.d. |
|  | aatc**gtga**cgcaag**t**t**ac**gaaa | 7.85 | ETEC\_p948\_0500c, traM | n.d. |
|  | ttacact**a**taaaca**tcaca**gtt | 7.83 | 42327 -> 42348 | n.d. |
|  | taa**t**a**t**ttagaaca**tca**t**a**ata | 7.82 | 44227 -> 44248 | n.d. |
|  | caaat**tga**accaga**tca**a**a**atc | 7.77 | ETEC\_p948\_0490c, traJ | n.d. |
|  | att**t**c**tga**tacattaa**ac**gtat | 7.65 | 43228 -> 43249 | n.d. |
|  | aaa**tg**aattttcaa**tca**a**a**tta | 7.65 | ETEC\_p666\_0870c | n.d. |
|  | ttt**t**a**t**t**a**ttccata**caca**taa | 7.64 | ETEC\_p666\_0650c, eltB | n.d. |
|  | aag**tg**c**ga**atctat**t**a**aca**ata | 7.62 | ETEC\_p948\_0800c | n.d. |
|  | attca**tg**cagcaaa**tcaca**tca | 7.61 | ETEC\_p948\_0500c, traM | n.d. |
|  | aaa**tgt**t**a**tatcttc**c**t**c**ttta | 7.58 | ETEC\_p666\_0350c, traY | n.d. |
|  | tta**tgt**t**a**actcaa**t**tt**ca**ata | 7.52 | 37232 -> 37253 | n.d. |
|  | aaactca**a**attgag**tcaca**aca | 7.51 | ETEC\_p948\_0680, stbA | n.d. |
|  | aat**t**a**tg**gtgataa**t**a**a**t**a**ttt | 7.48 | 41344 -> 41365 | n.d. |
|  | aataa**t**a**a**taaaaag**ca**a**a**aaa | 7.47 | ETEC\_p948\_1070c | n.d. |
|  | aaa**tgt**a**a**ttgataat**a**a**a**aaa | 7.45 | 38188 -> 38209 | n.d. |
|  | aat**tgtg**gaagaaa**t**t**aca**atg | 7.44 | 40522 -> 40543 | n.d. |
|  | atc**t**tc**ga**ccatat**tc**g**ca**tat | 7.4 | 47921 -> 47942 | n.d. |
|  | cat**tgt**c**a**tattta**tca**g**a**aaa | 7.39 | ETEC\_p948\_0990c | n.d. |
|  | caa**tgt**t**a**tttata**tca**ttaaa | 7.39 | ETEC\_p948\_0990c | n.d. |
|  | att**t**c**t**t**a**tagaaa**t**t**ac**tttt | 7.38 | ETEC\_p948\_0800c | n.d. |
|  | aatg**g**c**ga**tgctaa**t**a**a**a**a**taa | 7.37 | ETEC\_p666\_0660c, eltA | n.d. |
|  | ttt**tgt**t**a**ttatta**tc**ta**a**gct | 7.31 | ETEC\_p948\_0870c | n.d. |
|  | gaaca**tga**gcagca**tca**t**a**aaa | 7.31 | ETEC\_p666\_0360c, traJ | n.d. |
|  | tac**tg**c**g**gcgcagt**tcac**gatt | 7.3 | ETEC\_p948\_0050c | n.d. |
|  | aat**t**t**tg**gtctcgg**tca**g**a**tat | 7.3 | ETEC\_p666\_0650c, eltB | n.d. |
|  | aatc**gtga**actgcgc**c**g**ca**gta | 7.3 | ETEC\_p948\_0240 | n.d. |
|  | ttt**t**t**t**t**a**attgcg**t**tg**ca**tat | 7.27 | ETEC\_p948\_0900c | n.d. |
|  | ataa**gtga**tagtct**t**a**a**t**a**cta | 7.26 | ETEC\_p948\_0470 | n.d. |
|  | taa**tgtg**ttaggca**t**t**a**acatt | 7.25 | 61025 -> 61046 | n.d. |
|  | tga**tgtg**gtatgtt**t**t**a**tcttt | 7.21 | ETEC\_p666\_0110c | n.d. |
|  | caa**t**a**tga**tttagt**t**a**ac**ggta | 7.2 | ETEC\_p666\_0550, stbA | n.d. |
|  | aaac**g**ca**a**tgtatt**tca**ttatt | 7.2 | 60523 -> 60544 | n.d. |
|  | tcag**gtga**tgcact**tca**a**a**aag | 7.19 | 29938 -> 29959 | n.d. |
|  | atc**t**t**tga**taattt**tc**t**ca**atg | 7.19 | 25210 -> 25231 | n.d. |
|  | ttactca**a**tcctct**tcaca**aca | 7.18 | ETEC\_p666\_0560, stbB | n.d. |
|  | att**tgtg**tcatggg**t**t**ac**cata | 7.16 | 75209 -> 75230 | n.d. |
|  | ata**t**t**tga**tatctg**t**g**a**t**a**tct | 7.14 | 43102 -> 43123 | n.d. |
|  | aga**t**taa**a**aaaacac**caca**aaa | 7.14 | 90310 -> 90331 | n.d. |
|  | aatga**tga**atatca**tca**attat | 7.13 | 39580 -> 39601 | n.d. |
|  | ttt**t**tcc**a**tctgca**tca**a**a**att | 7.12 | 67889 -> 67910 | n.d. |
|  | ttt**t**a**tga**tggata**t**agt**a**cta | 7.12 | 42475 -> 42496 | n.d. |
|  | aat**tgt**t**a**ttggtgaa**a**t**a**att | 7.12 | 5162 -> 5183 | n.d. |
|  | ttg**t**t**t**t**a**tcaaaa**tca**tgttt | 7.11 | 4348 -> 4369 | n.d. |
|  | tct**tgtga**gggaga**t**tgt**a**ttt | 7.11 | 77103 -> 77124 | n.d. |
|  | ata**t**ta**ga**acgata**t**tg**ca**taa | 7.11 | 74898 -> 74919 | n.d. |
|  | tac**tgtga**attaat**t**a**ac**gttg | 7.09 | ETEC\_p948\_0120c, etpB | n.d. |
|  | aac**t**t**t**a**a**taaacac**caca**tta | 7.09 | ETEC\_p948\_0830c | n.d. |
|  | tgt**t**t**t**ttacaaca**tcaca**ctt | 7.08 | ETEC\_p666\_0750c, sta1 | n.d. |
|  | tgt**t**t**t**ttacaaca**tcaca**ctt | 7.08 | ETEC\_p666\_0750c, sta1 | n.d. |
|  | atag**gt**a**a**atctgt**tca**a**a**aaa | 7.08 | ETEC\_p948\_0790c | n.d. |
|  | taac**gtg**gcattaac**cac**gtaa | 7.07 | ETEC\_p948\_0490c, traJ | n.d. |
|  | tga**t**t**tga**ctgctc**t**t**a**a**a**ttt | 7.06 | ETEC\_p666\_0870c | n.d. |
|  | aaac**g**g**ga**acgggt**tcaca**aac | 7.03 | 10961 -> 10982 | n.d. |
|  | aaa**tg**ca**a**acttta**t**g**a**t**a**tat | 7.02 | 37876 -> 37897 | n.d. |
|  | aaa**tgt**attccgtc**tcaca**tgt | 7 | 61211 -> 61232 | n.d. |

aPredicted CRP sites were organised into bins on the basis of the site score.

bSequence of the predicted CRP site. Matches to the consensus CRP binding sequence are shown in bold.

cThe score for each predicted site assigned by PREDetector. Higher scoring sites have a closer match to the Position Weight Matrix (PWM) used to identify potential CRP binding sites.

dThe position of predicted CRP targets with respect to adjacent genes. If the CRP binding target was between divergent genes both gene names are shown. If the target was between convergent genes the co-ordinates of the site are shown.

eSites tested for CRP binding *in vitro* using electrophoretic mobility shift assays.