

Description of Additional Supplementary Files

File Name: Supplementary Data 1

Description: Oligonucleotides used to construct library L1.

File Name: Supplementary Data 2

Description: Protein sequences of the best hits from each library.

File Name: Supplementary Data 3

Description: Oligonucleotides used to construct library L4.

File Name: Supplementary Data 4

Description: Oligonucleotides used to encode the parent clone L1-9.

File Name: Supplementary Data 5

Description: Oligonucleotides used to construct library L7.

File Name: Supplementary Data 6

Description: Oligonucleotides used to generate point mutants of hit clone L7-A11 at the 17 positions constituting the ligand-binding pocket.

File Name: Supplementary Data 7

Description: Oligonucleotides used to construct library L10.

File Name: Supplementary Data 8

Description: Oligonucleotides used to construct library L11.

File Name: Supplementary Data 9

Description: Oligonucleotides used to encode hit clone L7-A11 with the six cysteines mutated.

File Name: Supplementary Data 10

Description: Oligonucleotides used to construct library L12.

File Name: Supplementary Data 11

Description: Oligonucleotides used to construct library L13.

File Name: Supplementary Data 12

Description: Oligonucleotides used to construct library L15.

File Name: Supplementary Data 13

Description: Oligonucleotides used to construct library L2.

File Name: Supplementary Data 14

Description: Oligonucleotides used to construct library L6.

File Name: Supplementary Data 15

Description: Oligonucleotides used to construct library L8.

File Name: Supplementary Data 16

Description: Oligonucleotides used to encode hit clone L6-4D10 with the six cysteines diversified.

File Name: Supplementary Data 17

Description: Oligonucleotides used to generate point mutants of hit clone L8-3F01 at the 17 positions constituting the ligandbinding pocket.

File Name: Supplementary Data 18

Description: Oligonucleotides used to construct library CsL3.

File Name: Supplementary Data 19

Description: Oligonucleotides used to construct library CsL4.2.