

Supplementary Information

A New Fluorescence Complementation Biosensor for Detection of Estrogenic Compounds

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Table S1. Primers used in this work. Restriction enzyme sites are shown in italics.

| Primer | Sequence |
|------------------------|--|
| mVenus-Asmbl F1 | AACGTCTATATCACCGCCGACAAGCAGAAGAACGGCATCAAGGCCAACTTCAAGATCCGC |
| mVenus-Asmbl R2 | GGTAGTGGTCGGCGAGCTGCACGCCGCCGTCCTCGATGTTGTGGCGGATCTTGAAGTTGG |
| mVenus-Asmbl F3 | TCGCCGACCACTACCAGCAGAACACCCCCATCGGCGACGGCCCCGTGCTGTGCCCGACA |
| mVenus-Asmbl R4 | CTTTGCTCAGCTTGGACTGGTAGCTCAGGTAGTGGTTGTCGGGCAGCAGCAC |
| mVenus F64L-For | AAGCTGCCCGTGCCCTGGCCACCCTCGTGACCACCCTGGGCTAC |
| mVenus F46L-Rev | CCAGGGCACGGGCAGCTTGCCGGTGGTGCAGATCAGCTTCAGGGT |
| mVenus-For-KpnI | AAAAAAGGTACCATGGTGAGCAAGGGCGAGGAG |
| mVenus-Rev-BamHI | TTTTTTGGATCCTTACTTGTACAGCTCGTCCATGCCG |
| mVn154-Stop-Rev-BamHI | TTTTTTGGATCCTCAGGCCGGTGATATAGACGTTGTGGCT |
| mVc155-For-KpnI | AAAAAAGGTACCATGGCCGACAAGCAGAAGAAC |
| mVenus154noStopRevSalI | AAAAAAGTCGACGGCGGTGATATAGACGTTGTGGCT |
| mVenus155-SalI-For | AAAAAAGTCGACATGGACAAGCAGAAGAACGGCATCAAGGCCAA |
| ER281-For-SalI | AAAAAAGTCGACATGGGGTCTGCTGGAGACATGAGAGCT |
| ER312-For-SalI | AAAAAAGTCGACGCCGACCAGATGGTCAAGTGC |
| ER532-noStop-Rev-SalI | AAAAAAGTCGACGTTCTTGCACTTCATGCTGTACAGATG |
| ER549-noStop-Rev-SalI | AAAAAAGTCGACTAGGCCGGTGGGCGTCCAGCAT |
| ER595-noStop-Rev-SalI | AAAAAAGTCGACGACTGTGGCAGGAAACCCTCT |

Fig. S1. Fluorescence of mVenus and its N and C terminal halves in HeLa cells. Plasmid was lipofected into HeLa cells (along with non-fluorescent β -galactosidase plasmid to bring the total DNA to 800 ng) in 24-well plates. Samples from left to right are β -galactosidase, 100 ng Vn, 100 ng Vc, 100 ng mVenus, 10 ng of Vn and Vc, 100 ng of Vn and Vc, 400 ng of Vn and Vc.

