Figure S1: The map of hybrid plasmid pPL_ABCDExen [37]. Plasmid pPL_ABCDExen is romotorless shuttle vector with ewo replication origins from pMW118 and pBS72. The reporter genes are *luxABCDE* from *Photorhabdus luminescense*. The order of genes in the *lux*-operon and RBS upstream of each gene are optimized for *B. subtilis* expression. Resistance to trimethoprim (Tp[r]), chloramphenicol (Cm[r]), and ampicillin (Ap[r]).

Table S1. List of primers used in the study. Italicized sequences is complementary to pPL_ABCDExen around the SacI site and were used for Gibson assembly.

alkAdir	*TAAAGAAGAGCTTTCAGGAATTCG*TTAAATAATTATAAGAAAACTCACGCTGG
alkArev	*GGCCGCGGTACCGAGCT*TGTAATAGCAAGATAACAAAATGAGTAAA
mrgADir mrgADir	*TAAAGAAGAGCTTTCAGGAATTCG*TTCCGATCGCTTTTTCCTTG
mrgARev	*GGCCGCGGTACCGAGCT*GATCTGTTGACTTAATTATATCATATACT
dinCDi	*GCCGCGGTACCGAGCT*TAATTACATTAAAGCAAACATA
dinCRev	*G TAAAGAAGAGCTTTCAGGAATTCG*AAACAGAACAAGTGTTCTTTTTT
promrev	CTGTCCCATGTCATTTCCTCC
promdir	ATTTCATAGAGAGTCCTCCTCTTGCTT

The sequences of promoter regions used for constructing new biosensor plasmids by insertion into SacI site of pPL_ABCDExen are given below:

- *The mrgA gene promoter, which is inducible by oxidative stress*

133 bp fragment of *B. subtilis* 168 gDNA

ttccgatcgctttttccttggtctgcgtgggagtctatcctgaagaaaaagctattcagctgatctaaattataattattataatttagtattgattttttatttagtatatgatataattaagtcaacagatc

- *The dinC gene promoter, which is inducible by DNA damages*

62 bp fragment of *B. subtilis* 168 gDNA

aaacagaacaagtgttctttttctattgaataccgaacgtatgtttgctttaatgtaatta

- *The alkA gene promoter,which is inducible by DNA alkylation*

85 bp fragment of *B. subtilis* 168 gDNA

tgtaatagcaagataacaaaatgagtaaagatgattatgtgataaactaatttcaaccagcgtgagttttcttataattatttaa