Real time optical detection of gold in living cells through genetically-encoded probe

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FIG. S1. The BLAST result of GolB gene. The subject is the result of the sequencing, whereas the query is the original sequence.

| Score | Expect | Identities | Gaps | Strand |
|-------|--------|------------|------|--------|
| 361 bits(195) | 6e-105 | 195/195(100%) | 0/195(0%) | Plus/Plus |

Query 1
GGTATGCAGTCCACATCGACGATATGACCTCGGTGGCTGGCGCGAGCACCCTGAAGAAA 60

Sbjct 1
GGTATGCAGTCCACATCGACGATATGACCTCGGTGGCTGGCGCGAGCACCCTGAAGAAA 60

Query 61
ACCATTCTGACCGCTGAGCGAAGCGGAGCCGCCCCCTGTACCCGACCCCGCGACCCTGTCTGCTG 120

Sbjct 61
ACCATTCTGACCGCTGAGCGAAGCGGAGCCGCCCCCTGTACCCGACCCCGCGACCCTGTCTGCTG 120

Query 121
GATGGTGAGACCCAGCTGAGGCGGAAAGTTCTGTGGCGCCGTGCAAAAGGCCGCGGT 180

Sbjct 121
GATGGTGAGACCCAGCTGAGGCGGAAAGTTCTGTGGCGCCGTGCAAAAGGCCGCGGT 180

Query 181
CCGCCCGGTGAGCGT 195

Sbjct 181
CCGCCCGGTGAGCGT 195

FIG. S2. SDS-PAGE profile of the sensor protein. M: Marker, S: Sample.
FIG. S3. Confocal image of bacterial cells demonstrating effective expression of AuSEN-25, which is genetically encoded.

FIG. S4. Confocal image of yeast cells expressing AuSEN-25.