

MGGSHHHHHHGMASMTGGQQMGRDLYDDDDKVPKPKKRRKV⁽⁴²⁾AQAALPEGEKPYACPECGKS
FSQSGDLRRHQRTHTGEKPYKCECGKSFSSQSGHLTEHQRTHTGEKPYKCECGKSFSSKKHLA
EHQRTHTGEKPYACPECGKSFSDPGNLVRHQRTHTGEKPYKCECGKSFSTKNSLTEHQRTHTG
KKTSGQAG⁽¹⁹⁸⁾EDAKNIKKGPAPFYPLEDGTAGEQLHKAMKRYALVPGTIAFTDAHIEVNITYA
EYFEMSVRLAEAMKRYGLNTNHRIVVCSSENSLQFFMPVLGALFIGVAVAPANDIYNERELLNSM
NISQPTVVFVSKKGLQKILNVQKLPITIQKIIIMDSKTDYQGFQSMYTFVTSHLPPGFNEYDFV
PESFDRDKTIALIMNSSGSTGLPKGVALPHRTACVRFSHARDPIFGNQIIPDTAILSVPFHHG
FGMFTTLGYLICGFRVLMYRFEEELFLRSLQDYKIQSALLVPTLFSFFAKSTLIDKYDLSNLH
EIASGGAPLSKEVGEAVAKRFHLPGIRQGYGLTETTSAILITPEGDDKPGAVGKVVPPFEAKVV
DLDTGKTLGVNQRGELCVRGPMIMSGYVNNPEATNALIDKDGWLHSGDIAYWDEDEHFFIVDRL
KSLIKYKGYQVAPAELESILLQHPNIFDAGVAGLPDDDAGELPAAVVVLEKGCFAKGTNVLMD
GSIECIENIEVGNKVMGKDGRPREVIKLRGRETMYSVVQKSQHRAHKSDSSREVPELLKFTCN
ATHELVVRTPRSVRRLSRTIKGVEYFEVITFEMGQKKAPDGRIVELVKEVSKSYPISEGP
ELVESYRKASNKAYFEWTIEARDLSLLGSHVRKATYQTYAPILY⁽⁸⁷¹⁾

SUPPLEMENTARY FIG. S4. DGnA biosensor module 1 (His_NLS_ZF1_NLuc_NInt) amino acid sequence. ZF1, residue(42–198); NLuc_NInt, residue(199–871). DGnA, DNA-guided nano-assembly.