

S11 Table. List of plasmids and primers used in the Bacterial Adenylate Cyclase Two-Hybrid System.

Plasmids	Relevant features
pUT18	High copy number vector that encodes the T18 fragment that is fused downstream of the MCS. This vector allows creating in-frame fusions at the N-terminal end of T18. BACTH System Kit from EUROMEDEX
pKNT25	Low copy number vector that encodes the T25 fragment that is fused in frame downstream from a MCS. This allows creating in-frame fusions at the N-terminal end of T25. BACTH System Kit from EUROMEDEX
pUT18C-ZIP	The plasmids pKT25-zip and pUT18C-zip serve as positive controls for complementation in the BACTH System Kit from EUROMEDEX. When pKT25-zip and pUT18C-zip are co-transformed into BTH101 E. coli cells, they restore a Cya+ phenotype. Vector pKT25-zip has a leucine zipper genetically fused in frame to the T25 fragment, while pUT18C-zip has a leucine zipper genetically fused in frame to the T18 fragment.
pKNT25-ZIP	
pEX-K4-HD1	Eurofins in-house standard vector with HD1 synthetic gene
pEX-K4-HD2	Eurofins in-house standard vector with HD2 synthetic gene
pKNT25+HD1	Plasmid with a HD1 in frame fusion at the N-terminal end of T25 subunit
pKNT25+HD2	Plasmid with a HD2 in frame fusion at the N-terminal end of T25 subunit
pUT18+HD1	Plasmid with a HD1 in frame fusion at the N-terminal end of T18 subunit
pUT18+HD2	Plasmid with a HD2 in frame fusion at the N-terminal end of T18 subunit
Primers (5'-3')	Relevant information
MP177(Hind III) - ACGCCAAGCTTGATGGAACCGAGTCCG	MP177-MP178 amplify a 1543 bp fragment containing HD1 synthesized gene present on plasmid pEX-K4-HD1, with restriction sites for Hind III and Pst I in the fragment extremities
MP178 (Pst I) - TCGACCTGCAGGCGCAGTCGAATACTTC	
MP179 (Hind III) - ACGCCAAGCTTGATGTATAGCTTCACC	MP179-MP180 amplify a 1261 bp fragment containing HD2 synthesized gene present on plasmid pEX-K4-HD2, with restriction sites for Hind III and Pst I in the fragment extremities.
MP180 (Pst I) - TCGACCTGCAGGCTTCCCGTTGTCATG	
MP191 - ACACTTTATGCTTCCGGC	Allow the amplification and sequencing of the constructions performed in plasmid pKNT25. Fragment MP191-MP192 amplified in: - empty pKNT25 plasmid: 176bp - pKNT25+HD1:1694bp - pKNT25+HD2:1412bp
MP192 - ACCAGCCTGATGCGATTGC	
MP193 - TGGCACGACAGGTTTCCC	
MP194 - ACAAGTCGATGCGTTCCG	Allow the amplification and sequencing of the constructions performed in plasmid pUT18. Fragment MP193-MP194 amplified in: - empty pUT18 plasmid: 284 bp - pUT18+HD1: 1802 bp - pUT18+HD2: 1520 bp