

Supplementary figure 4. The sequence of the components of the BphP1-QPAS1 system in combination with the VVD protein inserted into the plasmid construct carrying the 5×UAS-mini35S-pEGFP reporter at the PmeI/ClaI restriction sites.

PmeI
gtttaaacAGTTAATTAATGAGACTTTTCAACAAAGGGTAATATCCGGAACCTCCTCGGATTCCATTGCCAGCTATCTGTCACTTT

CaMV35S
ATTGTGAAGATAGTGAAAAAGGAAGGTGGCTCCTACAAATGCCATCATTGCGATAAAGGAAAGGCCATCGTTGAAGATGCCTCTGCCG
ACAGTGGTCCCAAAGATGGACCCCCACCCACGAGGAGCATCGTGAAAAAGAAGACGTTCCAACCACGCTTTCAAAGCAAGTGGATTG
ATGTGATATCTCCACTGACGTAAGGGATGACGCACAATCCCACTATCCTTCGCAAGACCCTTCCTCTATATAAGGAAGTTCATTTTCAT
TTGGAGAGAACAGGCGCGCCATGGTGGCAGGTCATGCCTCTGGCAGCCCCGCATTGGGACCGCCGATCTTTCGAATTGCGAACGTGA
AGAGATCCACCTCGCCGGCTCGATCCAGCCGCATGGCGCGCTTCTGGTCGTCAGCGAGCCGGATCATCGCATCATCCAGGCCAGCGCC
AACGCCGCGGAATTTCTGAATCTCGGAAGCGTGCTCGGCGTTCCGCTCGCCGAGATCGACGGCGATCTGTTGATCAAGATCCTGCCGC
ATCTCGATCCACCGCCGAAGGCATGCCGGTCGCGGTGCGCTGCCGGATCGGCAATCCCTCCACGGAGTACGACGGTCTGATGCATCG
GCCTCCGGAAGGCGGGCTGATCATCGAGCTCGAACGTGCCGGCCCGCCGATCGATCTGTCCGGCACGTGGCGCCGGCGCTGGAGCGG
ATCCGCACGGCGGGCTCGCTGCGCGCTGTGCGATGACACCGCGCTGCTGTTTCAGCAGTGCACCGGTACGACCGGGTGATGGTGT
ATCGCTTCGACGAGCAGGGCCACGGCGAAGTGTTCTCCGAGCGCCACGTGCCCGGGCTCGAATCCTATTTCCGGCAACCGCTATCCGTC
GTCGGACATTCCGCAGATGGCGCGGCGGCTGTACGAGCGGCAGCGCTCCGCGTGCTGGTCGACGTCAGCTATCAGCCGGTGCCGCTG
BphP1
GAGCCGCGGCTGTGCGCGCTGACCGGGCGCGATCTCGACATGTCGGGTGCTTCTGCGCTCGATGTGCGCGATCCATCTGCAGTACC
TGAAGAACATGGGCGTGCGCGCCACCCTGGTGGTGTGCTGGTGGTGGCGGCAAGCTGTTGGGCTGGTTCCTGTGCTCATCATTATCT
GCCGCGCTTCATGCATTTTCGAGCTGCGGGCGATCTGCGAACTGCTCGCCGAAGCGATCGCGACGCGGATCACCGCGCTTGAGAGCTTC
GCGCAGAGCCAGTCGGAGCTGTTCTGTCAGCGGCTCGAACAGCGCATGATCGAAGCGATTACCCGTGAAGGCGATTGGCGCGCAGCGA
TTTTCGACACCAGCCAATCGATCCTGCAGCCGCTGCACGCCCGGTTGCGCGCTGGTGTACGAAGACCAGATCAGGACCATCGGCGA
CGTGCCCTTCACGCAGGATGTGCGCGAGATCGCCGGGTGGCTCGATCGCCAGCCGCGCGCGGCGGTGACCTCGACCGCGTCTGCTCGGT
CTCGACGTGCCGGAGCTCGCGCATCTGACGCGGATGGCGAGCGGCGTGGTTCGCGGCGCGGATTTCCGATCATCGCGGCGAGTTTCTGA
TGTGGTTCCGCCCCGAGCGGTCCACACCGTTACCTGGGGCGGCGATCCGAAGAAGCCGTTACGATGGGCGATACACCGCGGATCT
GTCGCGCGGCGCTCCTTCGCCAAATGGCATCAGGTTGTGCAAGGCACGTCCGATCCGTGGACGGCCGCGGATCTCGCCGCGGCTCGC
ACCATCGGTGACACCGTCCCGACATCGTGCTGCAATTCGCGCGGTGCGGACACTGATCGCCCGGAACAGTACGAACAGTTTTCTGT
CCCAGGTGCACGCTTCGATGCAGCCGGTGCTGATCACCGACGCCGAAGGCCGCATCCTGCTGATGAACGACTCGTTCCGCGACATGTT
GCCGGCGGGTTCCGCATCCGCGTCCATCTCGACGATCTCGCGGGTCTTCGTCGAATCGAACGATTTCTGCGCAACGTGCGCGAA
CTGATCGATCACGGCCGCGGTGGCGCGGCGAAGTTCTGCTGCGCGGCGCAGGCAACGCCCCGTTGCCGCTGGCAGTGCGCGCCGATC
CGGTGACGCGCACGGAGGACCAGTCGCTCGGCTTCTGTGCTGATCTTCAGCGACGCTACCGATCGTCGCACCGCAGATGCCGCACGCAC
GCGTTTCCAGGAAGGCATTTCTGCCAGCGCACGTCCCGGCGTGCGGCTCGACTCCAAGTCCGACCTGTTGCACGAGAAGCTGCTGTCC
GCGCTGGTTCGAGAACCGCGCAGCTTGCCGCATTGGAAATCACTTACGGCGTCGAGACCGGACGCATCGCCGAGCTGCTCGAAGGCGTCC
GCCAGTCGATGCTGCGCACCGCCGAAGTGTCTGGCCATCTGGTGCAGCACGGCGCGCACGGCCGGCAGCGACAGCTCGAGCAATGG
CTCGCAGAACAGAAGGAATTCGATAGTGCTGGTAGTGCTGGTAGTGCTGGTACTAGAGCGTACAGCCGCGCGCTACGAAAAACAAT
TACGGGTCTACCATCGAGGGCCTGCTCGATCTCCCGGACGACGACGCCCCGAAGAGGCGGGGCTGGCGGCTCCGCGCTGTCTTTTC
VP16
TCCCCGCGGGACACACGCGCAGACTGTGACGCGCCCCCGACCGATGTCAGCCTGGGGGACGAGCTCCACTTAGACGGCGAGGACGT

VP16GGCGATGGCGCATGCCGACGCGCTAGACGATTTTCGATCTGGACATGTTGGGGGACGGGGATTCCCCGGGTCCGGGATTTACCCCCCACGACTCCGCCCCCTACGGCGCTCTGGATATGGCCGACTTCGAGTTTGAGCAGATGTTTACCGATGCCCTTGGAATTGACGAGTACGGTG

T2AGGAGCGGCCCGCAGGGCAGAGGAAGTCTGCTAACATGCGGTGACGTCGAGGAGAATCCTGGCCCAATGCATACGCTCTACGCTCCCGCGGTTATGACATTATGGGCTATCTGATTCAGATTATGAAGAGGCCAAACCCCCAAGTAGAACTGGGACCTGTTGACACGTCAGTTGCTCTGATTCTGTGCGACCTGAAGCAAAAAGACACGCCAATTGTGTACGCCTCGGAAGCTTTTCTCTATATGACAGGATACAGCAATGCGG

VVDAGGTCTTGGGGAGAACTGCCGTTTTCTTCAGTCACCCGACGGAATGGTCAAGCCGAAATCGACAAGGAAGTACGTGACTCCAACACGATCAATACGATGAGGAAAGCGATTGATAGGAACGCCGAGGTGCAGGTTGAGGTGGTCAATTTTAAGAAGAACGGCCAACGGTTTGTCAACTTCTTGACGATGATTCGGGTGCGAGATGAAACAGGGGAATACCGGTACAGCATGGGTTTCCAGTGCGAAACGGAAGAATTCGATA

CAAXGTGCTGGTAGTGTCTGGTAGTGTCTGGTACTAGTGCTAGCGGTAAAAAGAAGAAAAAGAAGTCAAAGACAAAGTGTGTAATTATGTAAGATCGTTCAAACATTTGGCAATAAAGTTTCTTAAGATTGAATCCTGTTGCCGGTCTTGCGATGATTATCATATAATTTCTGTTGAATTAC

NOS terminatorGTTAAGCATGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGATTAGAGTCCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAAGTACGATAAAATATCGCGCGCGGTGTCTATCTATGTTACTAGATCGGTACCTATATCTAGAGAACC

NOS promoterGGAACCGCAACGTTGAAGGAGCCACTCAGCCGCGGGTTTCTGGAGTTTAATGAGCTAAGCACATACGTGAGAAACCATTTATGCGCGTTCAAAAGTCGCCTAAGGTCACTATCAGCTAGCAAATATTTCTTGTCAAAAATGCTCCACTGACGTTCCATAAAATCCCTCGGTAT

NLSCCAATTACAATGCGCCAAGAAGAAGAGGAAGGGAGGTGGTGGAAAGCAAGCTACTGTCTTCTATCGAACAAGCATGCGATATTTGCCGACTTAAAAAGCTCAAGTGCTCCAAAGAAAAACCGAAGTGCGCCAAGTGTCTGAAGAACAAC

Gal4AGAGACCTTGACATGATTTTGAAAATGGATTCTTTACAGGATATAAAAGCATTGTTAACAGGATTATTTGTACAAGATAATGTGAATAAAGATGCCGTCACAGATAGATTGGCTTCAGTGAGACTGATATGCCTCTAACATTGAGACAGCATAGAATAAGTGCGACATCATCATCGGAAGAGAGTAGTAACAAAGGTCAAAGACAGTTGACTGTATCGCCGGAATTCGGCAAGAACATGCAGGCGGTACCGAGCTGCATTC

QPAS1CCGGCTGATCGCTGCGCAGCAGGCGATGGAGCGCGACTATTGGCGGTTGCGTGAATTGGAGACTCGCTACCGCCTGGTGTTGCGACGCTGCCGCCGATGCGGTGATGATCGTCTCCGCCGGCGACATGCGCATCGTCGAAGCCAACGGGCGGCGGTGAATGCGATCAGCCGCGTCGAGCGCGCAATGACGACCTTGCGGGGCGTGATTTCTCGCCGAAGTGGCGGCTGCCGATCGCGATGCGGTGCGCGACATGCTGGCCCA

VVDGGTGCGTCAGCGCGGCACCGCACTCAGCGTCCTCGTTTCTCGGCCGTTACGACCGCGCCTGGATGCTGCGCGGTTGCTGATGTCGTCCGAGCGTCGTCAGGTTTTCTGCTGCACTTCACCCCGGTGACCACGACTCCCGCGATCGACGACGACGACAAAGGTGTCGTTGCTTCTGCTGCCGACGGTGAGAGGGCGCTCAGACGACGAGAGGATGACGACGACCTAGGCACCATGCATACGCTCTACGCTCCCGGCGGTTATGACATTATGGGCTATCTGATTCAGATTATGAAGAGGCCAAACCCCCAAGTAGAACTGGGACCTGTTGACACGTCAGTTGCTCTGATTCTGTGCGACCTGAAGCAAAAAGACACGCCAATTGTGTACGCCTCGGAAGCTTTTCTCTATATGACAGGATACAGCAATGCGGAGG

NOS terminatorTCTTGGGGAGAACTGCCGTTTTCTTCAGTCACCCGACGGAATGGTCAAGCCGAAATCGACAAGGAAGTACGTGACTCCAACACGATCAATACGATGAGGAAAGCGATTGATAGGAACGCCGAGGTGCAGGTTGAGGTGGTCAATTTTAAGAAGAACGGCCAACGGTTTGTC AAC

TTCTTGACGATGATTCGGGTGCGAGATGAAACAGGGGAATACCGGTACAGCATGGGTTTCCAGTGCGAAACGGAATAAGGGCCCGCGCTCCACATCAACGGCGTCGGCGGCGACTGCCCAGGCAAGACCGAGATGCACCGCGATATCTTGCTGCGTTCCGATATTTTCGTGGAGTTCCCGCCACAGACCCGGATGATCCCCGATCGTTCAAACATTTGGCAATAAAGTTTCTTAAGATTGAATCCTGTTGCCGGTCTTGCGATGATTATCATATAATTTCTGTTGAATTACGTTAAGCATGTAATAATTAACATGTAATGCATGACGTTATTTATGAGATGGGTTTTTATGA

NOS
terminator

TTAGAGTCCCGCAATTATACATTTAATACGCGATAGAAAACAAAATATAGCGCGCAAAC TAGGATAAATTATCGCGCGCGGTGTCATC
TATGTTACTAGATCGGGCCTCCTGTCAATGCTGGCGGCGGCTCTGGTGGTGGTTCTGGTGGCGGCTCTGAGGGTGGTGGCTCTGAGGG
TGGCGGTTCTGAGGGTGGCGGCTCTGAGGGAGGCGGTTCCGGTGGTGGCTCTGGTTCCGGTGATTTTGATTATGAAAAGATGGCAAAC
GCTAATAAGGGGGCTATGACCGAAAATGCCGATGAAAACGCGCTACAGTCTGACGCTAAAGGCAAAC TTGATTCTGTCGCTACTGATT
ACGGTGCTGCTatcgat