



Figure S1: Comparison of fluorescence signal released from negative (with no β -xylosidase activity) and positive control (with high β -xylosidase activity).

MTLSVLTVASLVATALGSKVSVVVDASSKLGPWTPIHQYYGCDEPNYAYYPHGSAL
LKELGSLGKAQTYFRTHNLLTTGQPGLVGVPLKKGSTNAYTLDENGMPVYNFTIV
DEIFDHYLANNVKPFLEIGFMPEALAVDPDPYFFDFDPAAGPDNIYTGWTHPPKSYER
WGKLIYEFTKHLVDRYGAKENVQWPFEVWNEPNIPYWNGTTAEYYKLYDYTVRSV
LEALPTAHIGGPAVAGGASGSYLGDFLEHCSQGTNYATGEKGVPLDLISFHAKGV PQ
FINTTDTPGSSGYLQMDMSPQLQQIDEAFEVITSFHQYKQKPVFMSEYDPDGCAACTS
AAYDYRNGLMYGAYSAASFARAIDLAANRSVNLQAALTWAFEYEKNAILPNETGYF
DGFRVLSTQGIDKPVLNFHRMWSMLSGDRIKAESSAQIPIQEVLSNGIHGAQTDVGSL
ATLTEDGRALYVFLWHYHDNDLSFPDAQVSIDIEGLPAHF AEAKLTHYRVDNKHSNS
YAKWLSMGSPQSPTAEQYNELVAAGKLTTLGSPSMHAHKGRLSTDLSLPIQALSLL
VFTAL

Figure S2: Amino acid sequence of PpBXL. The six identified peptides are marked with underline.