

Fig. S1

PbP450-1

1	<u>MSHFLPTLIILTSLLTVAYVLA</u> RMIIYNVFIYHPLSAFPGDAFFCATGLTKAY	50
51	HMIAGDLQLKVKDMHDKYGSVVRIAPTELSFSYCSAWKDIYGSRGGRELS	100
101	KFYDFYRVDEAMPQHIIISAGKAKHSILRRYLAHGFSNAMKAQEPVILDL	150
151	VNLLMQRLREHAEEGARVVDVNKWFNFATFEIIGKLTFTGADLGNLRNRDW	200
201	HPWVKGSANNMNVVGFMAAANSVGLGPIIKWCISNEILPRQKYLDELAEM	250
251	VQKRTGVTVERPDFIQGLLRDDVQLSNGEIVANVEALIGAGSESTATLLT	300
301	GTVCALLQNPDQLAKVIDEVRSTFRTEDEITLHSVQRLDYMLACLNETFR	350
351	YPPVTNGMPRVTPKEGAIIGGRLVPGNTVVAIWQWAICHDPALWKDPYT	400
401	FRPERFLEAPEFSTDVREALNPFVSGTRNCIGRNLSYAETRLILARLFYY	450
451	FDLELADPDQDWFGAQKAYLVWDAPALNMYLKPVVR	486

PbP450-2

1	MIKHSLSDCCLADPDHLIRIKSYVEAN <u>VRFLGLSLVTLLVTIQMFRA</u> L	50
51	LRLNKPLVGRRSILEPRWLVLGRFTKGGRELLRQAYKKYKDEIFKVQCND	100
101	TEICVLPHRYVEELRGLPASKVSSPQALYNKGLGSYTGLEVIVESHLEHFQ	150
151	AIQGHLLTPNLASALGIVLDELQDALKTVLPDCSDEWVPFDVHTVLSLV	200
201	RLSSRVFGGLELARNQQWIQLSTAYPRNAFACTMALRMVPRIIRPLLA	250
251	LPTYWRTRSNIIRDAKRIVGGIITKRRADGATDMSAKEHPCDLLQWMMNA	300
301	AAGTETHADDLAHRLLFISDASVMTTSLISHCLYDLVAHPEALSCIREE	350
351	VHNVLREGDNFQKTTLHKMRSLDSALKESQRLNPPFLMTFDRVVREPL	400
401	SDGTQIPVGTHLAMPTDAMLQDSSLLPQGGVAPDQFDPFRYARAREDP	450
451	AQRFQLATTEAKSLVFGHGKHACPGRFFASSEAKIILSHLLLLLYDFRY	500
501	GKGRPESWLFSENVDAIDPNARLLIKKRNDAAASNLAAMLAKAL	541

Fig. S1. Amino acid sequences of PbP450-1 and PbP450-2. Transmembrane domains predicted by Transmembrane Helix Prediction (<http://www.cbs.dtu.dk/services/TMHMM/>) are underlined in red.

Fig. S2

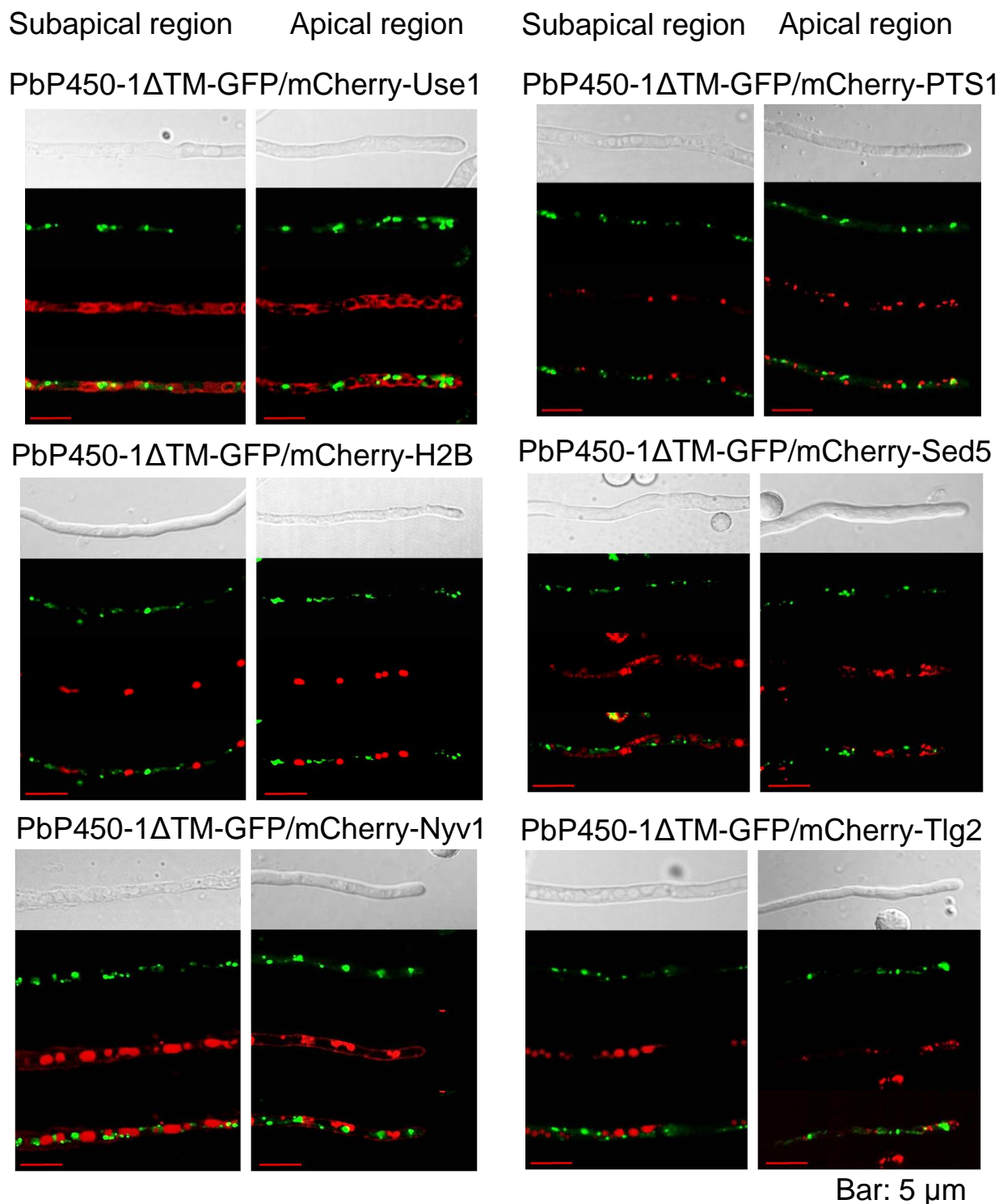


Fig. S2. Colocalization analysis of GFP-fused PbP450-1 Δ TM-GFP and mCherry-fused organelle markers. Hyphae were examined by a laser scanning confocal microscope.

Fig. S3

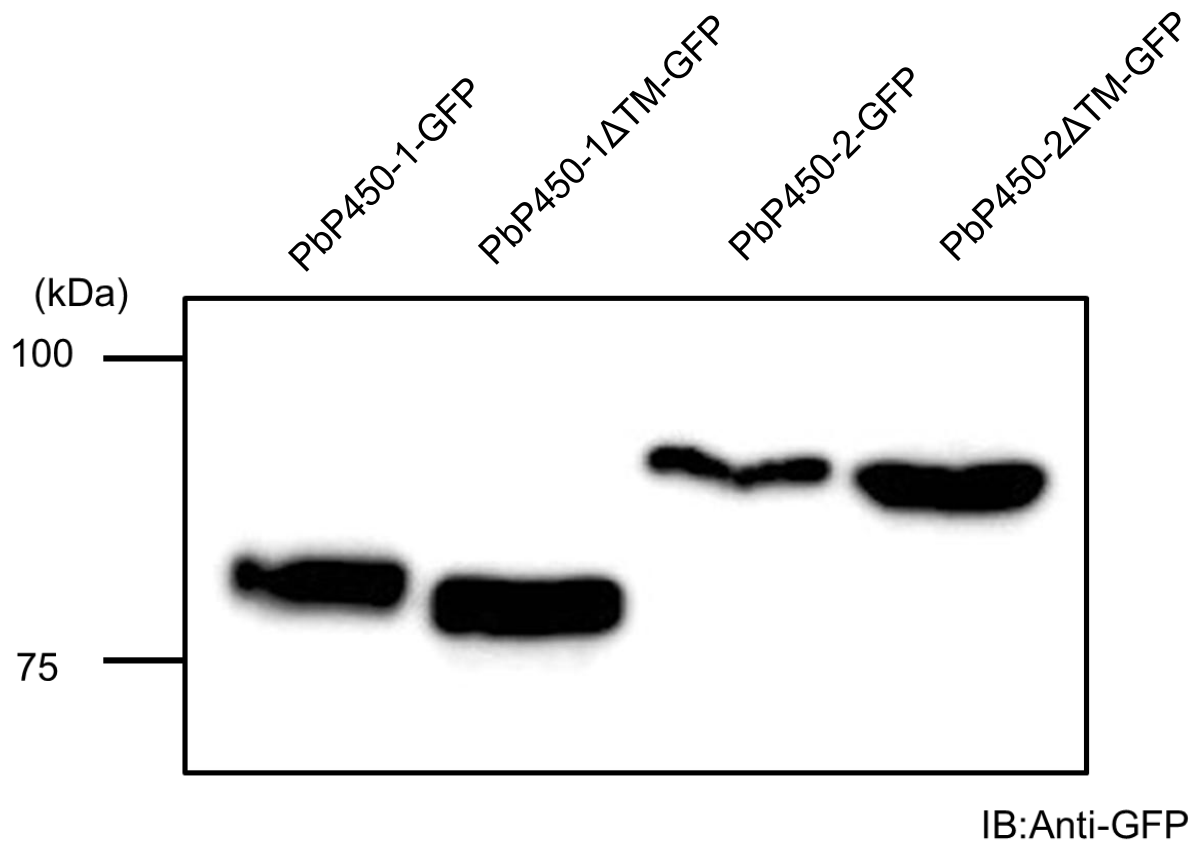


Fig. S3 Western blot analysis of PbP450-1ΔTM-GFP and PbP450-2ΔTM-GFP. Mycelia grown for 36 h in MM with 1% casamino acids as the sole carbon source were transferred to fresh MM with 1% maltose, and incubated for 6 h. Cell lysates extracted from harvested mycelia were subjected to western blot analysis using anti-GFP antibody.