

Supplementary Table S4Primers Used for Tagging and Deletion of ORFsPrimers for C-terminal FP fusions

Primer Name	Sequence
ATP4_GFP_KI_F	TTTGTGCAACAGTCTATATCTGAAATTGAACAATTGCTTTCTAAATTGAAGggtcgacggatccccgggtt
ATP4_GFP_KI_R	TTTCTTTTCCTTTCTTTCTTTTCATTCTTGTGCGAGTTACTGTTGTGACgatgaattcgagctcggtt
HIS4_GFP_KI_F	CTGTGAAAATCAGAATGAGTAAGCTTGGGTTGATCCCAAAGGATTTCCAGggtcgacggatccccgggtt
HIS4_GFP_KI_R	ATATATACATATTATTTTCGTTAGTGTTTCGGTTTCCAAGTTAGAAATAATcgatgaattcgagctcggtt
RPS25A_GFP_KI_F	TCTCCAAGCACTCCAAGCAAGCTATCTACACCAGAGCTACTGCTTCTGAAGgtcgacggatccccgggtt
RPS25A_GFP_KI_R	AATATTATTGAAAATACAGATTATTTTAAATTATATAACCCGTTCCCTGTcgatgaattcgagctcggtt
TEF2-CTERM-KI-FWD	CTGAAAAGGCCGCTAAGGTTACCAAGGCTGCTCAAAAGGCTGCTAAGAAacggatccccgggtta
TEF2-CTERM-KI-REV	AAAAATAAGAGGTATATAAAAAATATTATATGGAAGCAATAATTATTACTCgaattcgagctcggtt

Check Primers to Confirm Integration

Primer Name	Sequence
ATP4_GFP_KI_CHKf	CGAGAAACAAGCATGTGCGAA
HIS4_GFP_KI_CHKf	TCCAACCAATATGCACCAGA
RPS25A_GFP_KI_CHKf	AATCATGCCTCCAAAGCAAC
Tomato_ChkR	CCCATGGTCTTCTTCTGCAT
GFP_ChkR	TACATAACCTTCGGGCATGG
TEF2-CTAG-CHK-FWD	GCTTTGGTCAAGTTCGTTCC
RFP-CTAG-CHK-REV	GGATGTCCAGGCGAAG

Supplementary Table S4, continued.Primers for Deletion of INP1

Primer Name	Sequence
INP1_KO_F	TGAAGGATACAAGGTCTACATTTTTCGTCTGATAACTCTCAGGAAATTAAACAAAGTGGTCggatccccgggttaattaa
INP1_KO_R	ATACTCCTTCACTTTGGTTTACACCTACATTCATTTGTGCAGTTATGCTTTGAACTTCATgaattcgagctcgtttaaac

Check Primers to Confirm Deletion

Primer Name	Sequence
INP1_SCRN_F	CGGAGGAAGTATTCCTTCACCT
FA6a_KAN_5' SCRN_R	ACATGGGGATGTATGGGCTA
FA6a_KAN_3' SCRN_F	CTGCCTCGGTGAGTTTTCTC
INP1_SCRN_R	AGATCAAATGTTCCAGCCATT

Primers for Making PTS1 Fusions

Primer Name	Sequence
GFP-SPEI-F	GCGACTAGTACCATGAGTAAAGGAGAAGAACTTTTCACTGG
GFP-PTS1-REV	GCGCTCGAGCTAGAGTTTTGAGTGCAGTGGTTTGTATAGTTCATCCATGCCA
GFP-PTS1X-REV	GCGCTCGAGCTATGGCAGGTGTGATTTGAGTTTGTATAGTTCATCCATGCCA

Supplementary Table S4, continued.Primers for “Knocking-In” ILS1-GFP-ADH1 Sequence

Primer Name	Sequence
AGA2KO-FWD	GTCACCTTGTGTGCCAAAATATTATACCTACTTCATACATTTTCAATTAAGCGGATCCCCGGGTAAATTAA
AGA2KO-REV	CTAGTTTATAAGTGTCACGAACGATGAAATGGAACTTGGGGGGGAAGGCATATAGGGAGACCGGCAGA
HIS3KO-FWD	TGCATTGGTGACTTACACATAGACGACCATCACACCACTGAAGACTGCGGCGGATCCCCGGGTAAATTAA
HIS3KO-REV	TCACTACGGTGATGATCATTCTTGCCCTCGCAGACAATCAACGTGGAGGGTACTATAGGGAGACCGGCAGA

Check Primers to Confirm Integration

Primer Name	Sequence
TEF_TM_FWD	TGGTCGCTATACTGCTGTCG
AGA2KO-CHKR	GCAATTGGTTGTTCCGTACC
HIS3KO-CHKR	ACCTTTGGTGGAGGGAACAT