**Table S7. Primers used in this study**

**rDNA sequencing**

18SrDNA1f gtagtcatatgcttgtct

18SrDNA2r tcactgattaatgaaaac

18SrDNA2f tgccaaggatgttttcat

18S-Teil2r acttccatcggcttgagccga

18S-Teil2f aattgcgataacgaacgagacc

18SrDNA3r cttgcatacggtcagcat

18SrDNA3f agtaaagaatgctgaccg

28SrDNAr ccgcttattgatatgcttaa

LROR acccgctgaacttaagc

28SrDNA2r ccaccagagtttcctctggc

28SrDNA2f ggctaggatgctggcgtaat

4\_2r tagtctgtgaactgcatccg

4\_2f tcaaattgcggggacgtcctg

LR7 tactaccaccaagatct

**qPCR**

GPDRT2s tctgctaaggattggcgcgg

GPDRT2as gcttgccgttgagctctggg

TSP\_RT\_F gagtccggtcttattgttgagcag

TSP\_RT\_R gctttcaataacgtcaccctcacg

**qRT-PCR**

GPDRT2as GCT TGC CGT TGA GCT CTG GG

GPDRT2s TCT GCT AAG GAT TGG CGC GG

RT-RcSP1f GCG CCA CCG CAC CCT CTT AT

RT-RcSP1r ATG AAA CCT CCG CCG ATC G

RT-RcSP2f TGC TCA AGG AGG CCC TTT C

RT-RcSP2r GCC GTC CTT AGG ACA GGG T

RT-RcSP3f TGG CCA TAA CTT CGT CGC TTG T

RT-RcSP3r TCT CGT TGT GGA CTC TCC CAT CG

RT-RcSP5f GCC GGC TGG GGG ATG ATT T

RT-RcSP5r GTG CGG CGA CGG TCC AAC A

RT-NIP2.6-UK7f TAT CAA GCT GTC GTC TGT ACG

RT-NIP2.6-UK7r TGA CGC CTG TGT ACA AGT G

RT-RcSP7f TTC ATG TTA CCG GAA CTC CTT TT

RT-RcSP7r CTC TTT GAC CAA TGC AAG AGG TA

RT-RcSP9f CGG CCC AAT TTG TAC GCA GAG A

RT-RcSP9r CTG GTG CAC GTT CCA TAA

**Gene deletion**

RcSP1-fusion1\_s aataatcactaagtacgcta

RcSP1-fusion2\_as ttctgtacctaggttaatggggttgcggtaggttggatct

RcSP1-fusion3\_s cactccacatctccactcgagaagggttcttgagagtatc

RcSP1-fusion4\_as atagctatagaaagagaata

RcSP1-fusionA\_s ggttcgctagtaataatcta

RcSP1-fusionB\_as agagactaggatttcgctta

RcSP2-fusion1\_s gagatttgctagaactgcta

RcSP2-fusion2\_as ttctgtacctaggttaatggtttcgttaacgatgatgaag

RcSP2-fusion3\_s cactccacatctccactcgatcaagacattgccctatgga

RcSP2-fusion4\_as agtcaacattgaaagccgag

RcSP2-fusionA\_s cactcctttacagagtaggg

RcSP2-fusionB\_as tgacaaggattctgctcctg

RcSP3-fusion1\_s cagcctatgtagacagcatc

RcSP3-fusion2\_as ttctgtacctaggttaatggtttgaagaatcaagtgagtt

RcSP3-fusion3\_s cactccacatctccactcgattgtattgatatatgtcaaa

RcSP3-fusion4\_as aatatggacattgctacaag

RcSP3-fusionA\_s gtatgccagctcgctgcgaa

RcSP3-fusionB\_as ccttacaatggctttacttc

RcSP5-fusion1\_s agctagaagggatggcggat

RcSP5-fusion2\_as ttctgtacctaggttaatggctttgcaagtgtcaggcaat

RcSP5-fusion3\_s cactccacatctccactcgaaggaggagagaaattacaga

RcSP5-fusion4\_as ccacaatttcgtgtatagac

RcSP5-fusionA\_s tttcaatctcgagaacctcc

RcSP5-fusionB\_as gtcgcctattcagagtgcat

RcSP6-fusion1\_s tgatcgacagtcgtccgatc

RcSP6-fusion2\_as ttctgtacctaggttaatggagtgagagtgatagaagtgg

RcSP6-fusion3\_s cactccacatctccactcgaacatgacatctggattcaag

RcSP6-fusion4\_as gcttttttcggagggggg

RcSP6-fusionA\_s cgtacctaattagtccatac

RcSP6-fusionB\_as tctccctattagtagaaaca

RcSP9\_fusion1\_s ctctgtgtactgggcttata

RcSP9\_fusion2\_as ttctgtacctaggttaatggagtagtaagcttgttgagta

RcSP9\_fusion3\_s cactccacatctccactcgaaggtgtacaagagagctatt

RcSP9\_fusion4\_as gagcttcaggcagtgaatta

RcSP9\_fusionA\_s cttaagcctttgcatcgcaa

RcSP9\_fusionB\_as gaacttgacttgcttgcttc

hph\_fusion\_s ccattaacctaggtacagaa

hph\_fusion\_as cactccacatctccactcga

HPH-r agtccggcacctcgtgcacg

HPH50-f gctgatgctttgggccgagg

**cDNA sequencing**

RcSP1-seq-s atgaagcttggcctcctttc

RcSP1-seq-as ctaatccttcctggcaaccc

RcSP2-seq-s atgaagcccatcaccttatg

RcSP2-seq-as tcaacctattgtatagcg

RcSP3-seq-s\* atgcatttctctattcttct

RcSP3-seq-as\* ttaagagcatgtaaggtagc

RcSP5-seq-s atgaagctcctcctcctcct

RcSP5-seq-as tcagagatctttattgccaa

RcSP6-seq-s atgaagcatctctctatcct

RcSP6-seq-as tcaacttaggacagcgtact

RcSP9\_seq\_s\* ataagacagctcctgtaccc

RcSP9\_seq\_as\* gtatccaagccagtacaacc

\* also used for proof of deletion

**Proof of deletion**

RcSP1\_dt\_s tcaccagacaccctcttgtt

RcSP1\_dt\_as ttatctcgcctcctgagaa

RcSP2\_dt\_s tcaaagccgaggatagagtc

RcSP2\_dt\_as ttctatcgtcaggttgcga

RcSP5\_dt\_s ttgatagcgagacaactgac

RcSP5\_dt\_as ttcatgtcctaagaagcgt

RcSP6\_dt\_s tccaggcacatcatcctcac

RcSP6\_dt\_as ttgtccctagcgcagtcgta

**Proof of integration**

gpdA\_KO\_as gaagtaggtagagcgagtac

trpC\_KO\_s cagaatgcacaggtacacttg