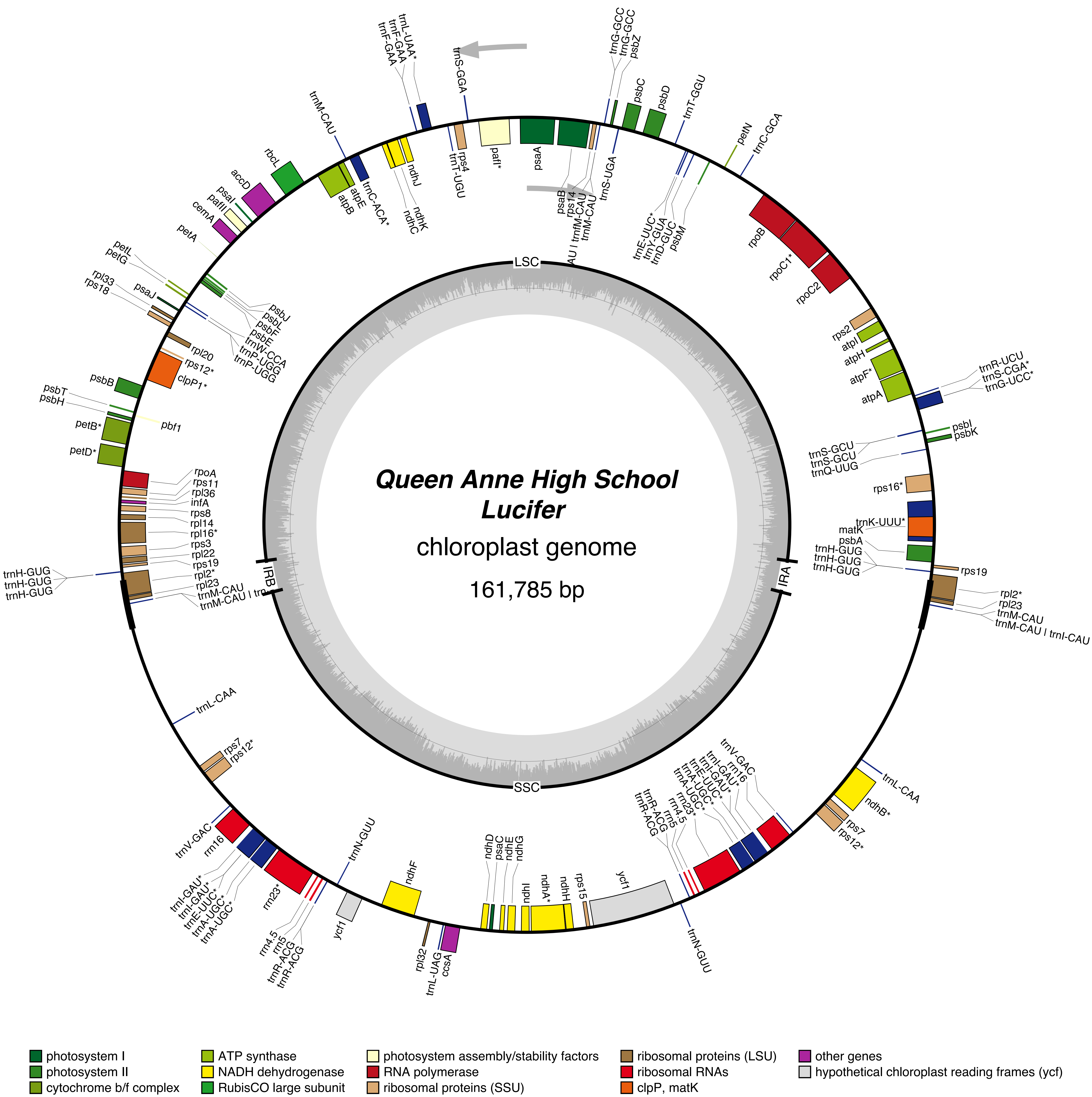
Queen Anne High School Lucifer
chloroplast genome
161,785 bp
LSC
IRA
SSC
IRB
trnL-UAA*
trnF-GAA
trnF-GAA
trnS-GGA
trnG-GCC
trnG-GCC
psbZ
psbC
psbD
trnT-GGU
petN
trnC-GCA
trnM-CAU
rbcL
accD
psaI
pafII
cemA
petA
atpE
atpB
trnC-ACA*
ndhJ
ndhK
ndhC
rps4
trnT-UGU
pafI*
psaA
psaB
rps14
trnfM-CAU
trnM-CAU
trnS-UGA
trnE-UUC*
trnY-GUA
trnD-GUC
psbM
rpoB
rpoC1*
rpoC2
rps2
atpI
atpH
atpF*
atpA
trnR-UCU
trnS-CGA*
trnG-UCC*
psbI
psbK
trnS-GCU
trnS-GCU
trnQ-UUG
rps16*
trnK-UUU*
matK
psbA
trnH-GUG
trnH-GUG
trnH-GUG
rps19
rpl2*
rpl23
trnM-CAU
trnM-CAU | trnI-CAU
petL
petG
rpl33
rps18
psaJ
psbJ
psbL
psbF
psbE
trnW-CCA
trnP-UGG
trnP-UGG
rpl20
rps12*
clpP1*
psbB
psbT
psbH
pbf1
petB*
petD*
rpoA
rps11
rpl36
infA
rps8
rpl14
rpl16*
rps3
rpl22
rps19
rpl2*
rpl23
trnM-CAU
trnM-CAU | trnI
trnH-GUG
trnH-GUG
trnH-GUG
trnL-CAA
rps7
rps12*
trnV-GAC
rrn16
trnI-GAU*
trnI-GAU*
trnE-UUC*
trnA-UGC*
trnA-UGC*
rrn23*
rrn4.5
rrn5
trnR-ACG
trnR-ACG
trnN-GUU
ycf1
ndhF
rpl32
trnL-UAG
ccsA
ndhD
psaC
ndhE
ndhG
ndhI
ndhA*
ndhH
rps15
ycf1
trnN-GUU
trnR-ACG
trnR-ACG
rrn5
rrn4.5
rrn23*
trnA-UGC*
trnA-UGC*
trnE-UUC*
trnI-GAU*
trnI-GAU*
rrn16
trnV-GAC
trnL-CAA
ndhB*
rps7
rps12*
photosystem I
photosystem II
cytochrome b/f complex
ATP synthase
NADH dehydrogenase
RubisCO large subunit
photosystem assembly/stability factors
RNA polymerase
ribosomal proteins (SSU)
ribosomal proteins (LSU)
ribosomal RNAs
clpP, matK
other genes
hypothetical chloroplast reading frames (ycf)