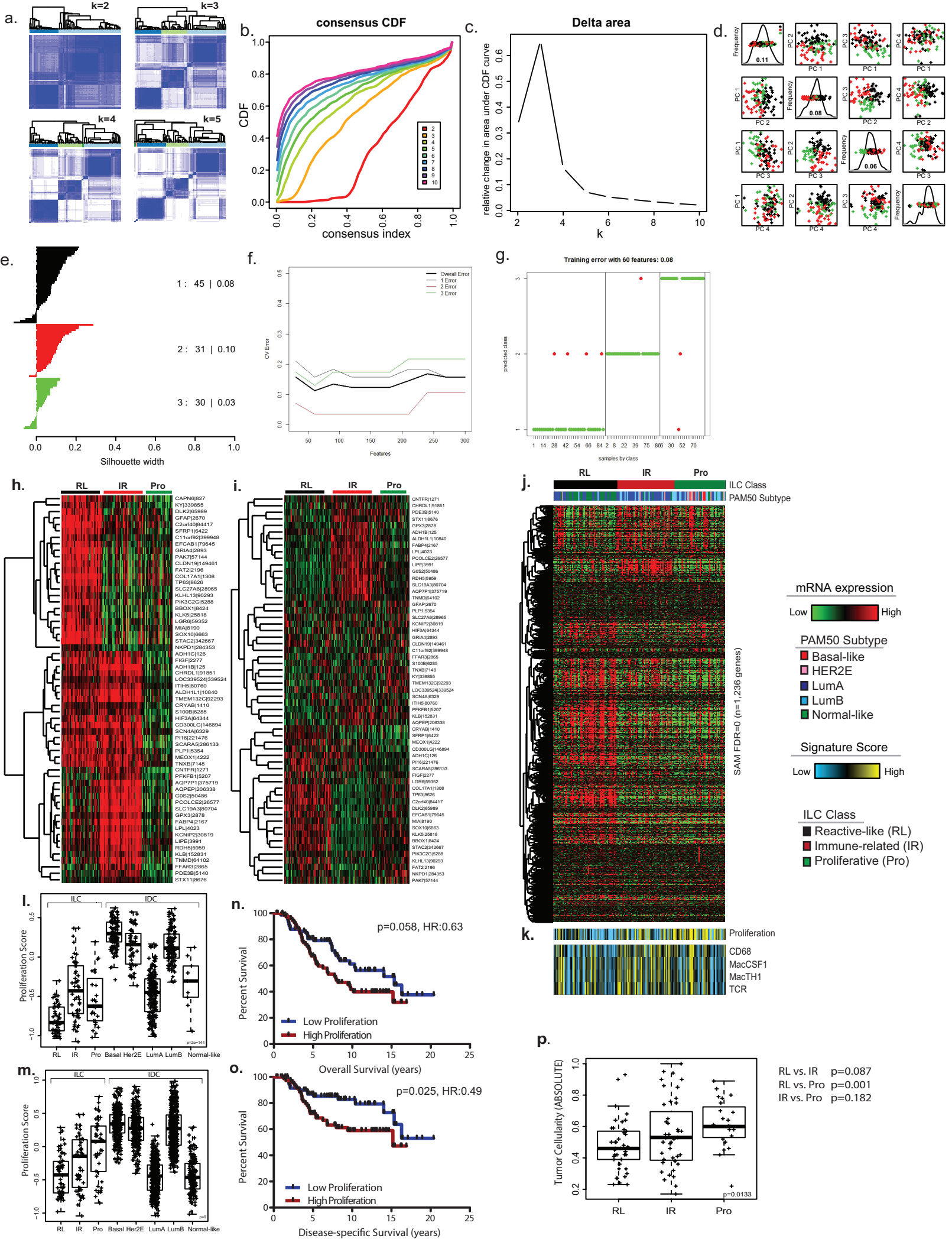
a.
k=2
k=3
k=4
k=5
b.
consensus CDF
CDF
consensus index
c.
Delta area
relative change in area under CDF curve
k
d.
Frequency
PC 1
PC 2
PC 3
PC 4
0.11
0.08
0.06
e.
1 : 45 | 0.08
2 : 31 | 0.10
3 : 30 | 0.03
Silhouette width
f.
Overall Error
1 Error
2 Error
3 Error
CV Error
Features
g.
Training error with 60 features: 0.08
predicted class
samples by class
h.
RL
IR
Pro
i.
RL
IR
Pro
j.
RL
IR
Pro
ILC Class
PAM50 Subtype
SAM FDR=0 (n=1,236 genes)
mRNA expression
Low
High
PAM50 Subtype
Basal-like
HER2E
LumA
LumB
Normal-like
Signature Score
Low
High
ILC Class
Reactive-like (RL)
Immune-related (IR)
Proliferative (Pro)
k.
Proliferation
CD68
MacCSF1
MacTH1
TCR
l.
ILC
IDC
Proliferation Score
RL
IR
Pro
Basal
Her2E
LumA
LumB
Normal-like
n.
p=0.058, HR:0.63
Percent Survival
Low Proliferation
High Proliferation
Overall Survival (years)
m.
ILC
IDC
Proliferation Score
RL
IR
Pro
Basal
Her2E
LumA
LumB
Normal-like
o.
p=0.025, HR:0.49
Percent Survival
Low Proliferation
High Proliferation
Disease-specific Survival (years)
p.
Tumor Cellularity (ABSOLUTE)
p=0.0133
RL
IR
Pro
RL vs. IR p=0.087
RL vs. Pro p=0.001
IR vs. Pro p=0.182