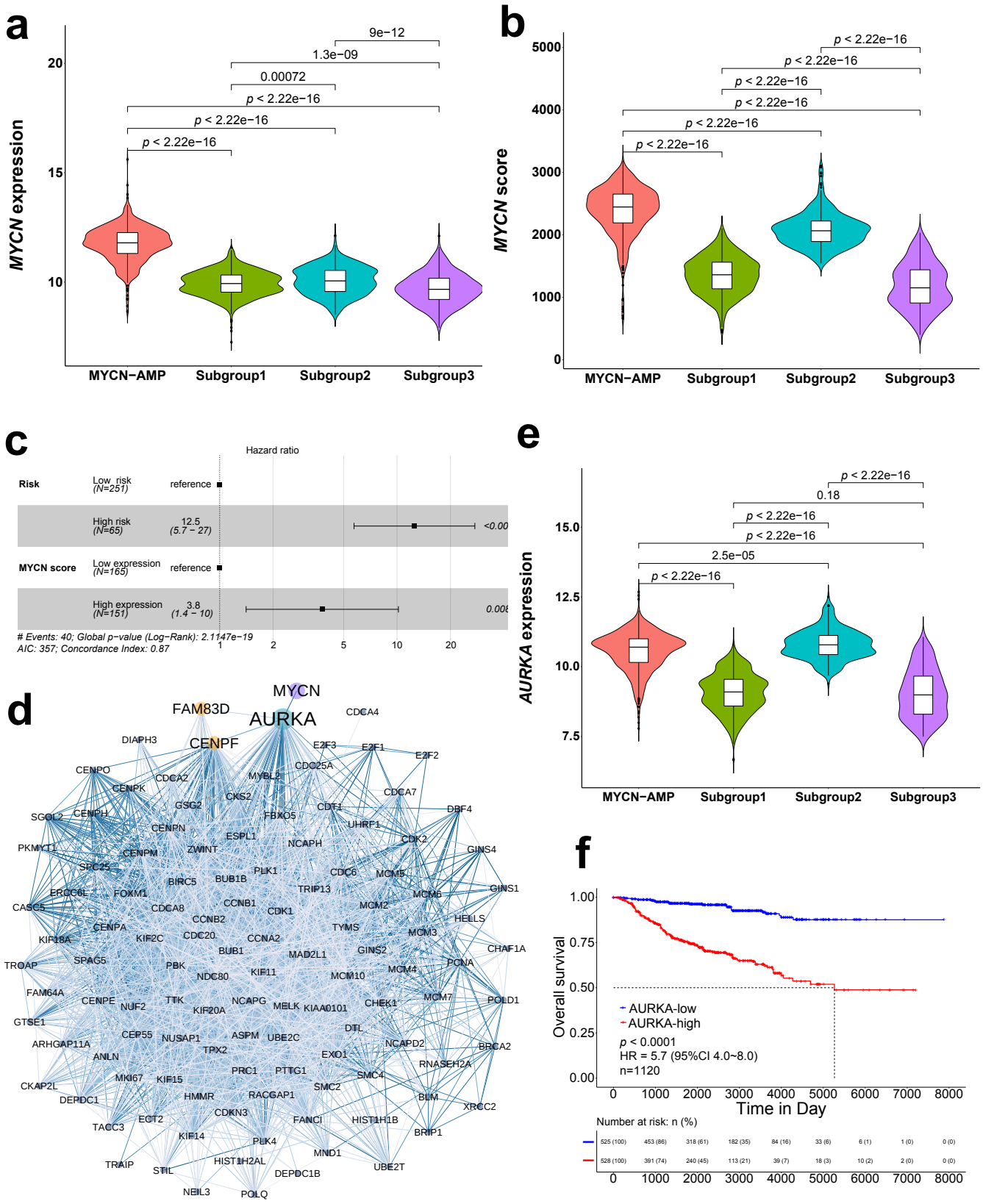
a
MYCN expression
20
15
10
9e−12
1.3e−09
0.00072
p < 2.22e−16
p < 2.22e−16
p < 2.22e−16
MYCN−AMP
Subgroup1
Subgroup2
Subgroup3
b
MYCN score
5000
4000
3000
2000
1000
0
p < 2.22e−16
p < 2.22e−16
p < 2.22e−16
p < 2.22e−16
p < 2.22e−16
p < 2.22e−16
MYCN−AMP
Subgroup1
Subgroup2
Subgroup3
c
Hazard ratio
Risk
Low risk (N=251) reference
High risk (N=65) 12.5 (5.7 − 27) <0.00
MYCN score
Low expression (N=165) reference
High expression (N=151) 3.8 (1.4 − 10) 0.008
Events: 40; Global p−value (Log−Rank): 2.1147e−19
AIC: 357; Concordance Index: 0.87
1
2
5
10
20
d
MYCN
FAM83D
AURKA
CDCA4
DIAPH3
CENPF
E2F3
E2F1
E2F2
CENPO
CDCA2
MYBL2
CDC25A
CENPK
CKS2
CDCA7
SGOL2
CENPH
GSG2
FBXO5
CDT1
DBF4
CENPN
UHRF1
ESPL1
PKMYT1
CENPM
ZWINT
NCAPH
CDK2
GINS4
SPC25
PLK1
CDC6
MCM5
BIRC5
BUB1B
TRIP13
GINS1
ERCC6L
FOXM1
CCNB1
MCM6
CASC5
CDCA8
CDK1
MCM2
CCNB2
HELLS
CENPA
TYMS
MCM3
KIF18A
KIF2C
CDC20
CCNA2
GINS2
CHAF1A
BUB1
MAD2L1
TROAP
SPAG5
PBK
KIF11
MCM4
PCNA
NDC80
MCM10
FAM64A
CENPE
TTK
NCAPG
MELK
KIAA0101
CHEK1
MCM7
POLD1
NUF2
KIF20A
GTSE1
DTL
CEP55
NUSAP1
ASPM
UBE2C
NCAPD2
ARHGAP11A
BRCA2
TPX2
ANLN
EXO1
RNASEH2A
PRC1
PTTG1
SMC4
MKI67
KIF15
CKAP2L
SMC2
HMMR
RACGAP1
BLM
DEPDC1
XRCC2
CDKN3
ECT2
FANCI
HIST1H1B
TACC3
BRIP1
KIF14
PLK4
MND1
TRAIP
HIST1H2AL
STIL
UBE2T
DEPDC1B
NEIL3
POLQ
e
AURKA expression
15.0
12.5
10.0
7.5
p < 2.22e−16
0.18
p < 2.22e−16
p < 2.22e−16
2.5e−05
p < 2.22e−16
MYCN−AMP
Subgroup1
Subgroup2
Subgroup3
f
Overall survival
1.00
0.75
0.50
0.25
0.00
AURKA-low
AURKA-high
p < 0.0001
HR = 5.7 (95%CI 4.0~8.0)
n=1120
0
1000
2000
3000
4000
5000
6000
7000
8000
Time in Day
Number at risk: n (%)
525 (100) 453 (86) 318 (61) 182 (35) 84 (16) 33 (6) 6 (1) 1 (0) 0 (0)
528 (100) 391 (74) 240 (45) 113 (21) 39 (7) 18 (3) 10 (2) 2 (0) 0 (0)