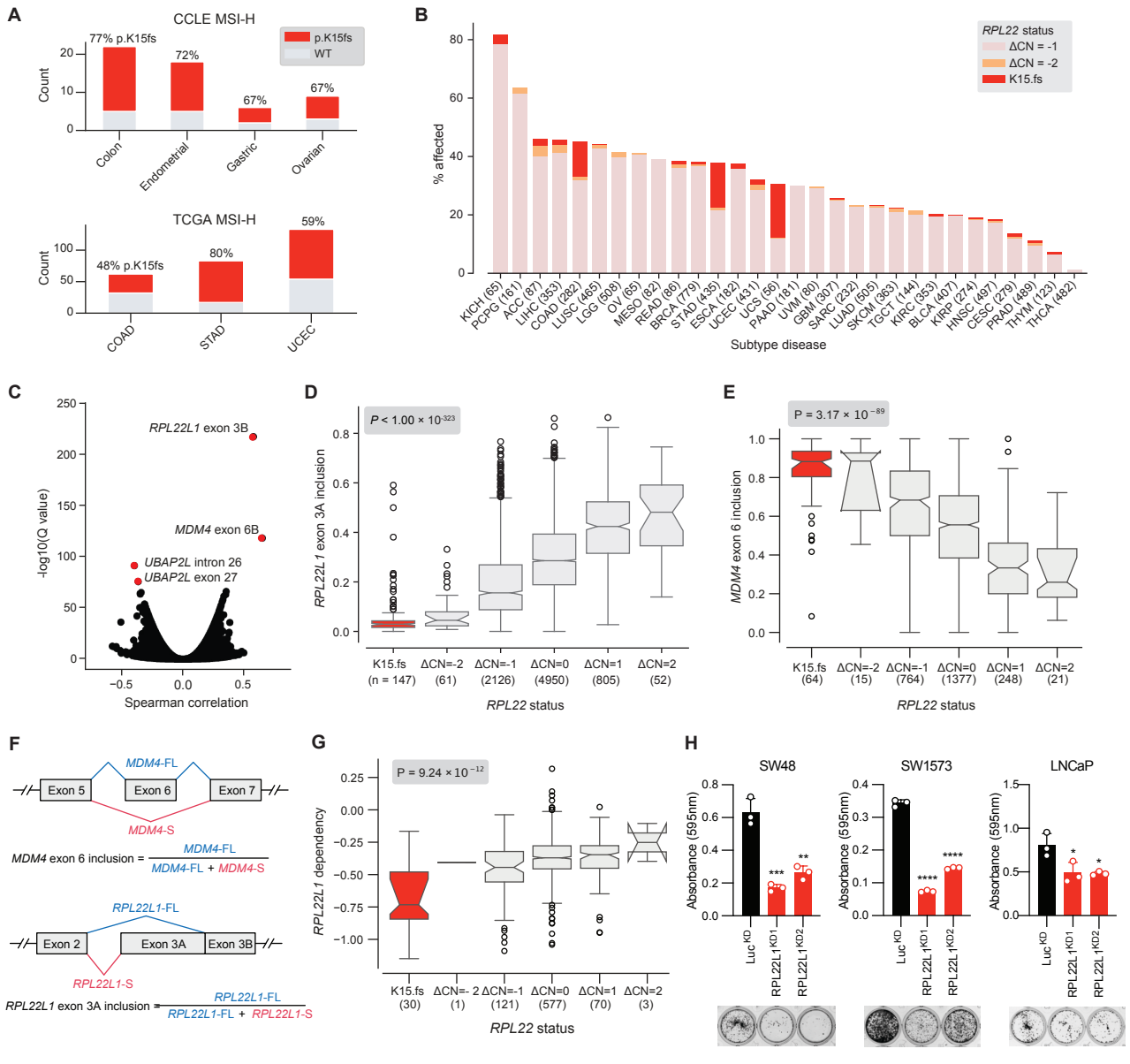
A
CCLE MSI-H
p.K15fs
WT
Count
77% p.K15fs
72%
67%
67%
Colon
Endometrial
Gastric
Ovarian
TCGA MSI-H
48% p.K15fs
80%
59%
COAD
STAD
UCEC
B
RPL22 status
ΔCN = -1
ΔCN = -2
K15.fs
% affected
KICH (65)
PCPG (161)
ACC (87)
LIHC (353)
COAD (282)
LUSC (465)
LGG (508)
OV (65)
MESO (82)
READ (86)
BRCA (779)
STAD (435)
ESCA (182)
UCEC (431)
UCS (56)
PAAD (181)
UVM (80)
GBM (307)
SARC (232)
LUAD (505)
SKCM (363)
TGCT (144)
KIRC (353)
BLCA (407)
KIRP (274)
HNSC (497)
CESC (279)
PRAD (489)
THYM (123)
THCA (482)
Subtype disease
C
RPL22L1 exon 3B
MDM4 exon 6B
UBAP2L intron 26
UBAP2L exon 27
-log10(Q value)
Spearman correlation
D
P < 1.00 × 10-323
RPL22L1 exon 3A inclusion
K15.fs (n = 147)
ΔCN=-2 (61)
ΔCN=-1 (2126)
ΔCN=0 (4950)
ΔCN=1 (805)
ΔCN=2 (52)
RPL22 status
E
P = 3.17 × 10-89
MDM4 exon 6 inclusion
K15.fs (64)
ΔCN=-2 (15)
ΔCN=-1 (764)
ΔCN=0 (1377)
ΔCN=1 (248)
ΔCN=2 (21)
RPL22 status
F
MDM4-FL
Exon 5
Exon 6
Exon 7
MDM4-S
MDM4 exon 6 inclusion = MDM4-FL / (MDM4-FL + MDM4-S)
RPL22L1-FL
Exon 2
Exon 3A
Exon 3B
RPL22L1-S
RPL22L1 exon 3A inclusion = RPL22L1-FL / (RPL22L1-FL + RPL22L1-S)
G
P = 9.24 × 10-12
RPL22L1 dependency
K15.fs (30)
ΔCN=-2 (1)
ΔCN=-1 (121)
ΔCN=0 (577)
ΔCN=1 (70)
ΔCN=2 (3)
RPL22 status
H
SW48
SW1573
LNCaP
Absorbance (595nm)
LucKD
RPL22L1KD1
RPL22L1KD2