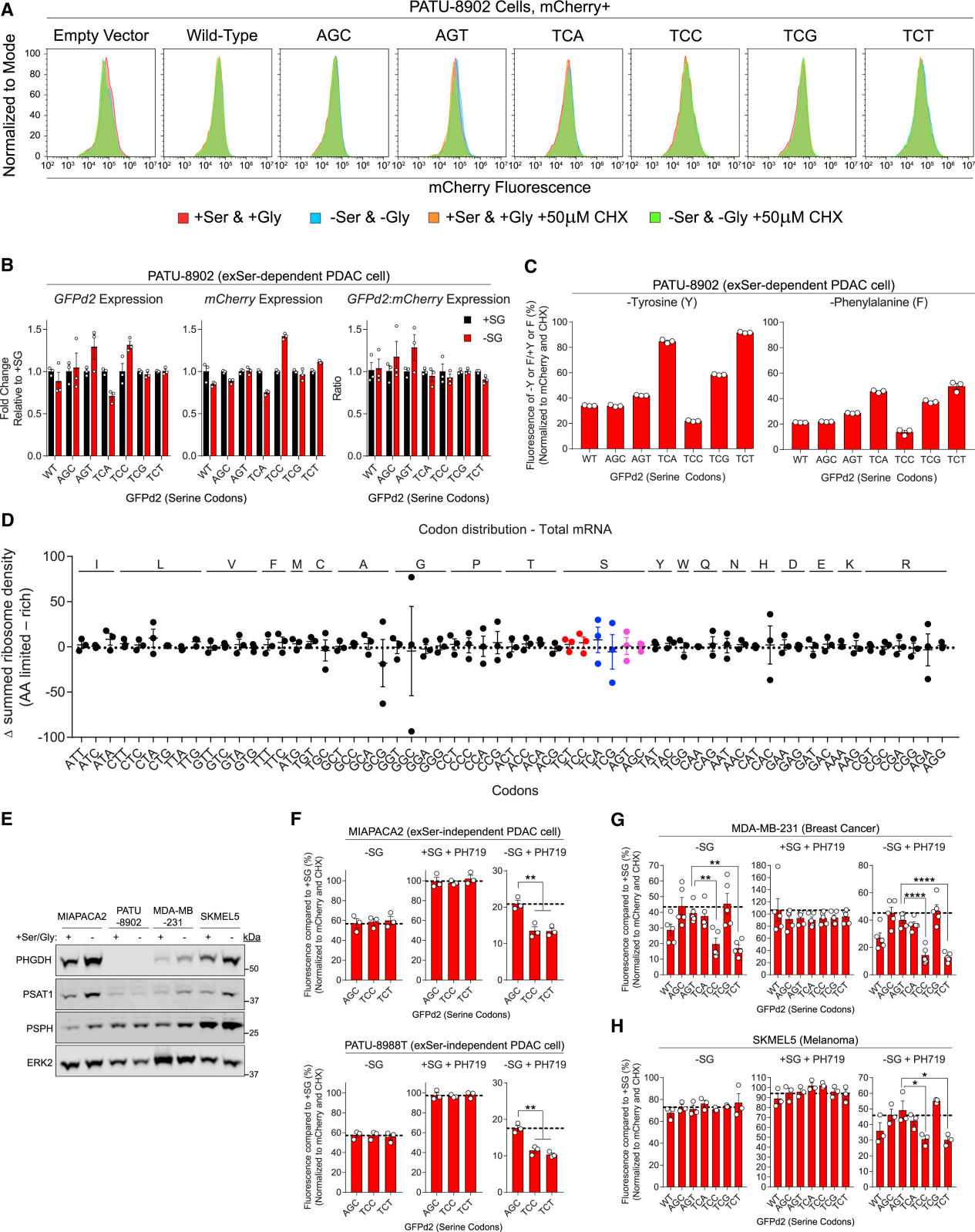
A
PATU-8902 Cells, mCherry+
Empty Vector
Wild-Type
AGC
AGT
TCA
TCC
TCG
TCT
Normalized to Mode
mCherry Fluorescence
+Ser & +Gly
-Ser & -Gly
+Ser & +Gly +50μM CHX
-Ser & -Gly +50μM CHX
B
PATU-8902 (exSer-dependent PDAC cell)
GFPd2 Expression
mCherry Expression
GFPd2:mCherry Expression
+SG
-SG
Fold Change Relative to +SG
Ratio
GFPd2 (Serine Codons)
C
PATU-8902 (exSer-dependent PDAC cell)
-Tyrosine (Y)
-Phenylalanine (F)
Fluorescence of -Y or F/+Y or F (%) (Normalized to mCherry and CHX)
GFPd2 (Serine Codons)
D
Codon distribution - Total mRNA
Δ summed ribosome density (AA limited – rich)
Codons
E
MIAPACA2
PATU -8902
MDA-MB -231
SKMEL5
+Ser/Gly:
kDa
PHGDH
PSAT1
PSPH
ERK2
F
MIAPACA2 (exSer-independent PDAC cell)
-SG
+SG + PH719
-SG + PH719
Fluorescence compared to +SG (%) (Normalized to mCherry and CHX)
GFPd2 (Serine Codons)
PATU-8988T (exSer-independent PDAC cell)
G
MDA-MB-231 (Breast Cancer)
H
SKMEL5 (Melanoma)