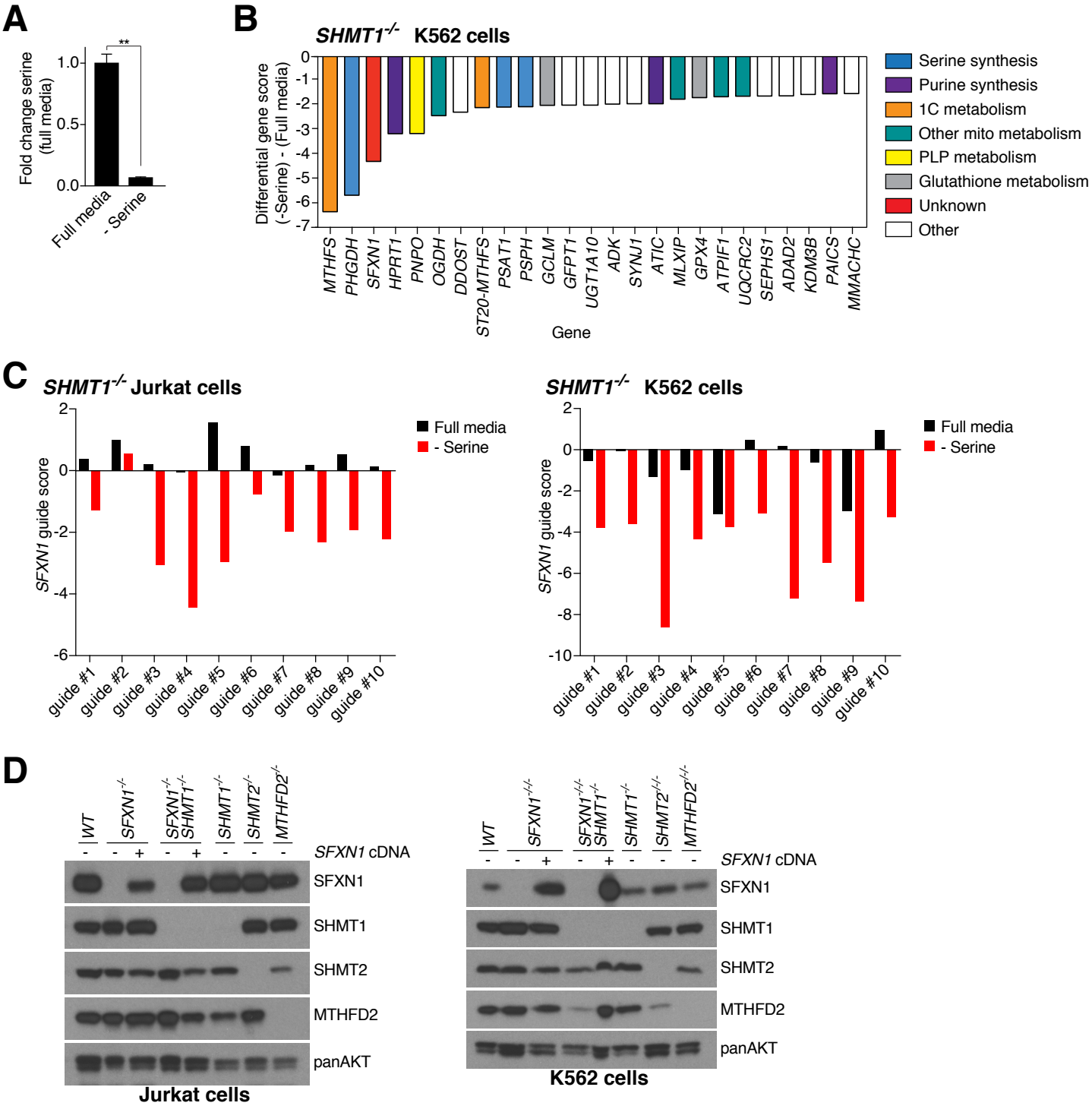
A
Fold change serine (full media)
1.0
0.5
0.0
**
Full media
- Serine
B
SHMT1-/- K562 cells
Differential gene score (-Serine) - (Full media)
0
-1
-2
-3
-4
-5
-6
-7
MTHFS
PHGDH
SFXN1
HPRT1
PNPO
OGDH
DDOST
ST20-MTHFS
PSAT1
PSPH
GCLM
GFPT1
UGT1A10
ADK
SYNJ1
ATIC
MLXIP
GPX4
ATPIF1
UQCRC2
SEPHS1
ADAD2
KDM3B
PAICS
MMACHC
Gene
Serine synthesis
Purine synthesis
1C metabolism
Other mito metabolism
PLP metabolism
Glutathione metabolism
Unknown
Other
C
SHMT1-/- Jurkat cells
SFXN1 guide score
2
0
-2
-4
-6
guide #1
guide #2
guide #3
guide #4
guide #5
guide #6
guide #7
guide #8
guide #9
guide #10
Full media
- Serine
SHMT1-/- K562 cells
SFXN1 guide score
2
0
-2
-4
-6
-8
-10
guide #1
guide #2
guide #3
guide #4
guide #5
guide #6
guide #7
guide #8
guide #9
guide #10
Full media
- Serine
D
WT
SFXN1-/-
SFXN1-/- SHMT1-/-
SHMT1-/-
SHMT2-/-
MTHFD2-/-
SFXN1 cDNA
SFXN1
SHMT1
SHMT2
MTHFD2
panAKT
Jurkat cells
WT
SFXN1-/-
SFXN1-/- SHMT1-/-
SHMT1-/-
SHMT2-/-
MTHFD2-/-
SFXN1 cDNA
SFXN1
SHMT1
SHMT2
MTHFD2
panAKT
K562 cells