Fig.S4

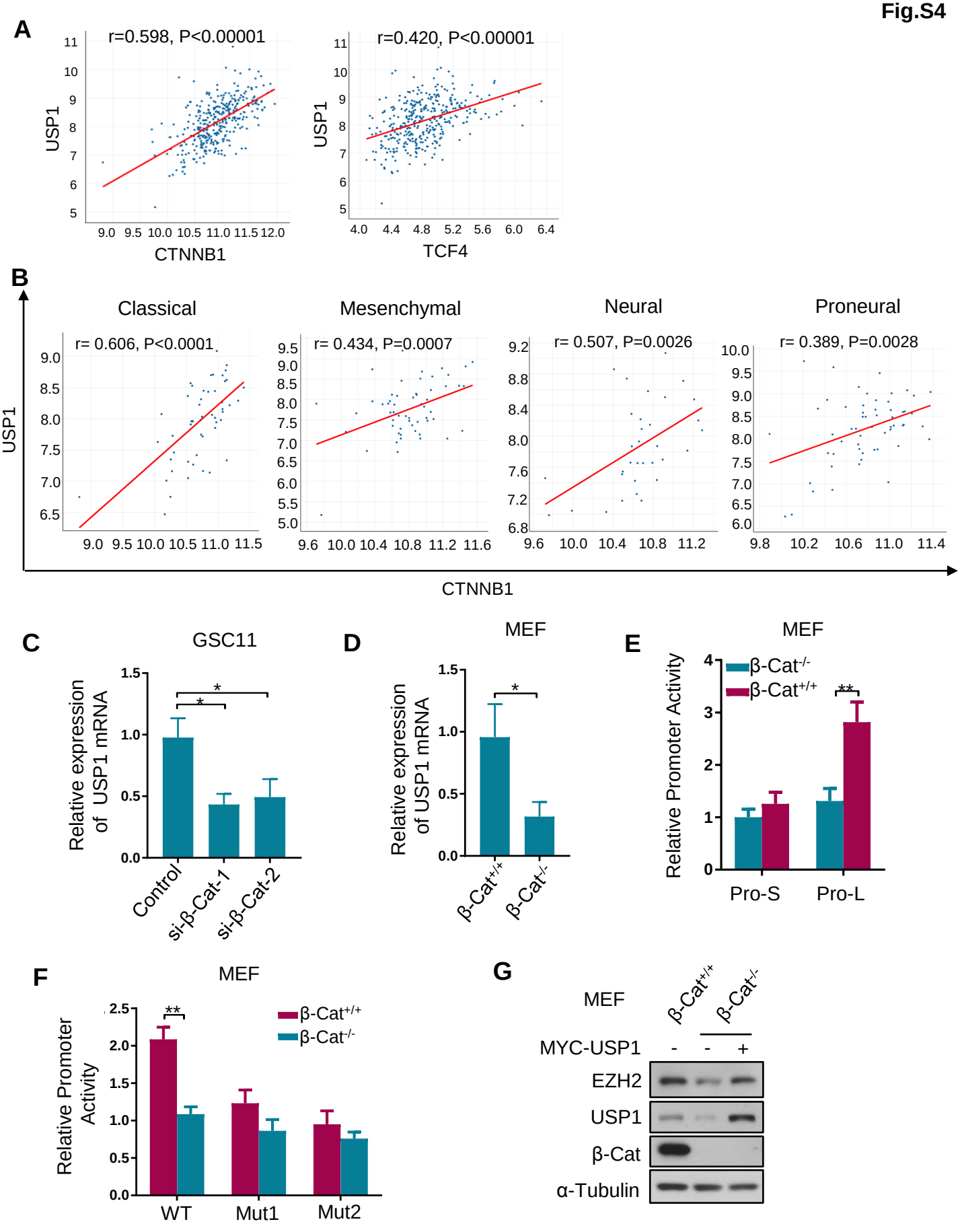
A
r=0.598, P<0.00001
USP1
CTNNB1
r=0.420, P<0.00001
USP1
TCF4
B
Classical
r= 0.606, P<0.0001
Mesenchymal
r= 0.434, P=0.0007
Neural
r= 0.507, P=0.0026
Proneural
r= 0.389, P=0.0028
USP1
CTNNB1
C
GSC11
Relative expression of USP1 mRNA
Control
si-β-Cat-1
si-β-Cat-2
D
MEF
Relative expression of USP1 mRNA
β-Cat+/+
β-Cat-/-
E
MEF
Relative Promoter Activity
β-Cat-/-
β-Cat+/+
Pro-S
Pro-L
F
MEF
Relative Promoter Activity
β-Cat+/+
β-Cat-/-
WT
Mut1
Mut2
G
MEF
β-Cat+/+
β-Cat-/-
MYC-USP1
EZH2
USP1
β-Cat
α-Tubulin

**Fig. S4 β-catenin promotes USP1 transcription in GBM.**

**(A)** Correlation of mRNA expression between USP1 and CTNNB1/TCF4 from the TCGA GBM dataset (n=356). **(B)** The correlation of mRNA levels between USP1 and CTNNB1 in different GBM subtypes from the TCGA dataset. In both (A) and (B), data were generated from Project Betastasis platform (www.betastasis.com) using "TCGA-Glioblastoma Two-gene scatterplot Affymetrix Human Exon 1.0 ST" dataset. **(C)** GSC11 cells were transfected with two independent β-catenin siRNAs, and USP1 mRNA expression was examined by qRT-PCR. **(D)** The mRNA levels of USP1 in β-Cat$^{-/-}$ and β-Cat$^{+/+}$ MEFs were detected by qRT-PCR. In (C) and (D), data were mean ± s.d. of n=3 independent experiments, Student's t-test, *P<0.05. **(E)** β-Cat$^{-/-}$ and β-Cat$^{+/+}$ MEFs were transfected with Pro-L or Pro-S plasmid. **(F)** β-Cat$^{-/-}$ and β-Cat$^{+/+}$ MEFs were transfected with wild-type Pro-L plasmid (WT) or TCF4 binding site mutant Pro-L plasmid (Mut). In (E) and (F), reporter gene activities were measured by dual luciferase assays. Renilla luciferase (pRL-TK) was used as an internal control. Data were mean ± s.e.m., n=3 independent experiments, Student's t-test. **P<0.01. **(G)**β-Cat$^{-/-}$ MEFs were transfected with MYC-USP1, and the cell lysates were analyzed by immunoblotting using the indicated antibodies.