



Figure S5. OLFML3 is essential for microglia migration in GBM.

(A) CLOCK shRNA knockdown decreases the expression *OLFML3*, but not *LGMN* and *LIPA* in GSC20. CLOCK shRNA knockdown efficiency (*left panel*) and quantification of RT-PCR analysis on shControl (shC) and shCLOCK GSC20 cells (*right panel*). $n = 3$ biological replicates; $**P < 0.01$; n.s. indicates not significant ($P > 0.05$).

(B) The correlation between *CX3CR1* or *RMEM119* with *OLFML3*, *LGMN* or *LIPA* in TCGA GBM patients. R and P values are indicated.

(C) Immunoblots for CLOCK and OLFML3 in cell lysates of QPP7 GSCs expressing shRNA control (shC), CLOCK shRNAs or CLOCK shRNAs having re-expression of human CLOCK.

(D) qRT-PCR showing OLFML3 shRNA knockdown efficiency in U87 cells. $n = 3$ biological replicates; $**P < 0.01$ and $***P < 0.001$.

(E) OLFML3-depleted U87 conditioned media impairs HMC3 microglia migration in transwell assay. Representative images (*left panel*) and quantification (*right panel*). Scale bar, 200 μm ; $n = 3$ biological replicates; $**P < 0.01$ and $***P < 0.001$.