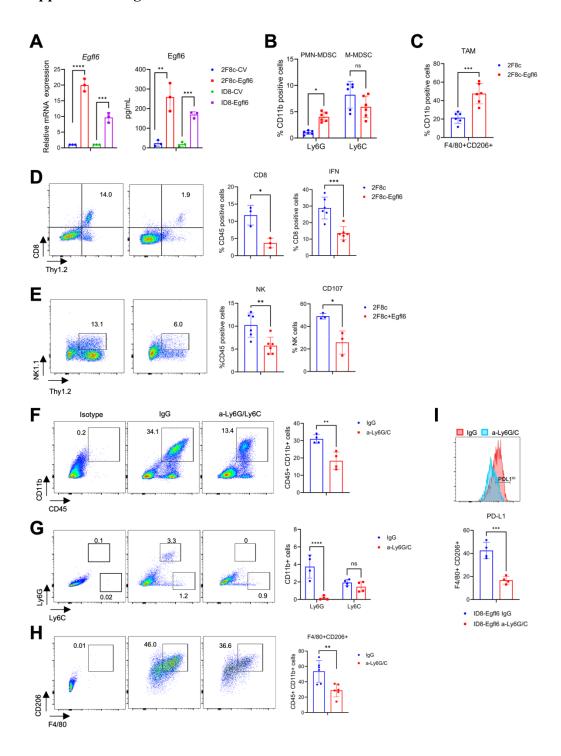
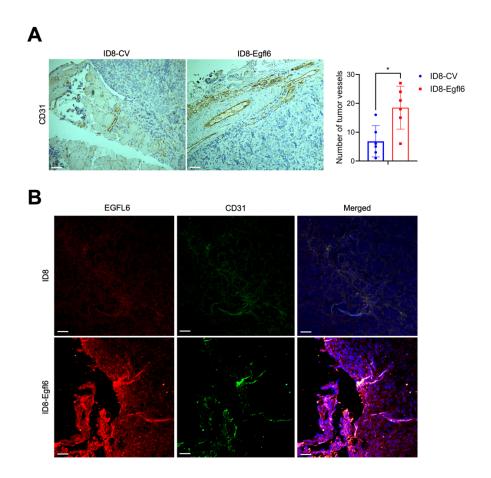


Supplemental Figure S1. Egfl6 modulates MDSC phenotype. A-B) Representative gating of CD11b⁺, B, CD8, and CD4 T cells in BM of WT (A) and Egfl6 transgenic mice (Egfl6.Tg) mice (B). C) qPCR analyses of Csf3r and Clec5a in sorted BM CD11b⁺ cells stimulated with rGM-CSF + rEgfl6. Stimulation with rGM-CSF alone was used as control. **D)** Graph represents the % proliferation of IL-2 + CD3/CD28 activated CD8 T cells and cultured directly with rEgfl6-induced BM-derived MDSC or MDSC cells at different ratio. **E)** ELISA assay of Perforin 1 (PRF1) in IL-2 + CD3/CD28 activated CD8 T cells and cultured with the conditioned media (CM) of rEgfl6- stimulated BM-derived MDSC cells or MDSC control. Unstimulated CD8 T cells were used as negative control (Neg Cont). Experiments were completed in triplicate. P values were calculated using unpaired two-tailed t test or ordinary one-way ANOVA analyses. Data are presented as mean \pm SEM. *P<0.05, **P<0.01, ***P<0.001, ****P<0.0001.

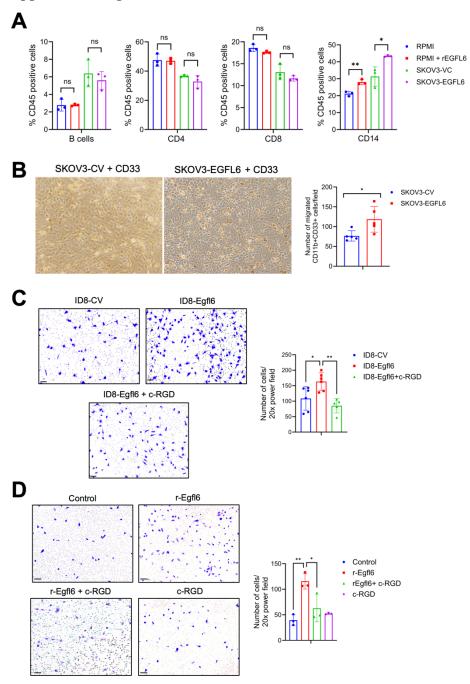


Supplemental Figure S2. Egfl6 induces accumulation of tumor-infiltrating myeloid cells and reduces the number of activated CD8 T and NK cells. A) Graphs showing qPCR analyses of *Egfl6* (left panel) and ELISA quantification of secreted Egfl6 protein (right panel) analyses in

2F8c+/-Egfl6 and ID8+/-Egfl6 cells. **B-C**) Graphs showing the quantification of (B) PMN-MDSCs $(CD11b^+Ly6G^+Ly6C^-)$, M-MDSCs $(CD11b^+Ly6G^-Ly6C^+)$, (C) **TAMs** (CD11b+F4/80+CD206+) in 2F8c+/-Egfl6 tumors (n=6 mice per group). **D-E**) Flow cytometric evaluation and quantification of (D) CD8 T (CD45⁺Thy1.2⁺) and (E) NK cells and their expression of IFN-g and CD107, respectively, in 2F8c+/-Egfl6 tumors (n=6 mice per group). F-H) Flow cytometric quantification of (F) myeloid cells (CD45+CD11b+), (G) PMN-MDSCs (CD11b⁺Ly6G⁻Ly6C⁺), (CD11b⁺Ly6G⁺Ly6C⁻), M-MDSCs and (H) $CD206^{+}$ **TAMs** (F4/80⁺CD206⁺) in ID8-Egfl6 ascites treated with anti-Ly6G/Ly6C or IgG isotype control. I) Gating and quantification of CD206⁺ TAMs expressing PD-L1. Experiments were completed at least in triplicate. P values were calculated using unpaired two-tailed t test or two-way ANOVA analyses. Data are presented as mean \pm SEM. *P < 0.05, **P < 0.01, ***P < 0.001 and ***P < 0.0010.0001.



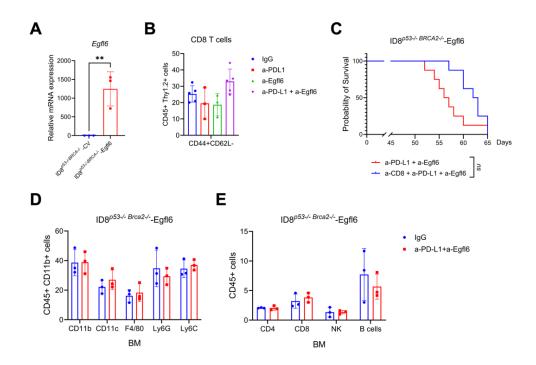
Supplemental Figure S3. Tumor Egfl6 increased the number of CD31⁺ cells. A) Representative immunohistochemistry images and quantification of CD31 expression in ID8-CV and ID8-Egfl6 tissue samples (n=6 per group). P values were calculated using unpaired two-tailed t test. Data are presented as mean \pm SEM. *P < 0.05. B) Representative immunofluorescence images showing the co-expression of Egfl6 in endothelial cells (CD31⁺ cells) (n=3 per group). Scale bars 100 μ m.



Supplemental Figure S4. Egfl6 induces migratory activities in myeloid cells via β3 integrin.

A) Graphs represent flow cytometry quantification of Transwell-migration assay showing the number of PBMCs (top chamber) that migrated toward complete RPMI media +/- rEGFL6 (bottom chamber). **B)** Representative IHC images and quantification of anti-CD11b on HGSOC ascites CD33⁺ migrated cells toward SKOV3-CV or SKOV3-EGFL6. **C-D)** Representative images and quantification of Transwell-migration assay showing the number of BM-isolated

CD11b⁺ cells seeded onto the top chamber migrated toward: (C) ID8-CV or ID8-Egfl6 cells plated in the lower chamber; (D) or complete media containing rEgfl6. In indicated experiments, c-RGD, a β 3 integrin inhibitor, was added to the bottom chamber. An average of five fields (20X) were acquired from each sample. Scale bars, 20 μ m. Experiments were completed at least in triplicate. Data are presented as mean \pm SEM, results were analyzed using unpaired two-tailed t test or ordinary one-way ANOVA. *P<0.05, **P<0.01.



Supplemental Figure S5. CD8 T cell depletion does not affect a-Egfl6 + a-PD-L1 in ID8 $^{p53-/-}$ Brca2-/--Egfl6 tumors. A) Graph shows qPCR analysis of Egfl6 expression in ID8 $^{p53-/-Brca2-/-}$ -Egfl6 vs ID8 $^{p53-/-Brca2-/-}$ -CV cells. B) Flow cytometry quantification of CD44+CD62L-CD8 T cells in ID8 $^{p53-/-Brca2-/-}$ -Egfl6 tumors receiving the indicated treatments. C) Kaplan-Meier survival analysis for ID8 $^{p53-/-Brca2-/-}$ -Egfl6 tumor bearing mice receiving the dual treatment, a-Egfl6 + a-PD-L1, or the triple treatment, a-CD8 + a-Egfl6 + a-PD-L1. Survival statistics were calculated using log-rank (Mantel-Cox) analysis from Kaplan-Meier survival plots. **D-E**) Flow cytometry quantification of the indicated immune cells isolated from BM of ID8 $^{p53-/-Brca2-/-}$ -Egfl6 tumor bearing mice treated with a-Egfl6 + a-PD-L1Abs or IgG isotype control. Results were analyzed using unpaired two-tailed t-test or two-way ANOVA. Experiments were completed at least in triplicate. Data are presented as mean \pm SEM. **P<0.01.