Supplemental Figure 1. Histopathology of lung tumors in Dok2+/− Dusp4+/− mice. (A) H&E-stained adenocarcinoma from lung tissue of two Dok2+/− Dusp4+/− mice at 9 months of age. Scale bar, 50 μm. (B) H&E-stained adenocarcinoma with papillary features (*) and solid growth areas (**) from a Dok2+/− Dusp4+/− lung. Middle, close-up of solid growth region. Right, close-up of papillary growth region. Scale bar, 50 μm. (C) Serial sections of lung tissue stained with H&E and IHC for phosphorylated Erk and Ki67 from 18-month od WT and Dusp4+/− mice. Scale bars, 50 μm. Insets show the staining from enlarged normal lung tissues.
**A**

Chromosome 8p coordinates

**B**

DOK2

- **P = 0.06**
- **P = 0.001**

DUSP4

- **P = 0.01**
- **P = 0.04**

**C**

DOK2

- **P = 0.044**

DUSP4

- **P = 0.053**
Supplemental Figure 2. Compound loss of DOK2 and DUSP4 expression and its clinical implication in human lung adenocarcinomas. (A) Size and extent of chromosome 8p deletions (in blue) from individual lung adenocarcinomas based on aCGH data analysis. Red line indicates genomic position of DOK2 and DUSP4. (B) A plot shows the correlation of copy number and gene expression level for DOK2 and DUSP4 in lung cancer samples. (C) The comparison of overall Kaplan-Meier survival curve between lung adenocarcinoma patients with no alteration versus heterozygous loss for DOK2 or DUSP4. P values were determined by log-rank test.
Full unedited gel for Figure 2D

Full unedited gel for Figure 3A

Full unedited gel for Figure 3B

Full unedited gel for Figure 3C

Full unedited gel for Figure 3G
Full unedited gel for Figure 2D

Full unedited gel for Figure 3A

Full unedited gel for Figure 3B

Full unedited gel for Figure 3C

Full unedited gel for Figure 3G