Figure S1. Effect of EMP3 overexpression on CSCs and EMT. (A) Comparison of EMP3 expression in lung cancer cell lines A549 and H460. (B) Expression of CSC marker proteins after EMP3 overexpression in H460 cells. (C) Confirmation of expression of CSC marker proteins using immunocytochemistry in EMP3 overexpressing H460 cells. (D) Sphere formation assay using conditioned media in EMP3 overexpressing cells. (E) Wound healing assay of H460 cells overexpressing EMP3. (F) Cell migration and invasion ability following overexpression of EMP3. Data are presented as the mean ± standard deviation of three repeats. Scale bar, 50 μm. ***P<0.001, ****P<0.0001. CSC, cancer stem cell; EMP3, epithelial membrane protein 3; EMT, epithelial-mesenchymal transition; ALDH1, aldehyde dehydrogenase 1.

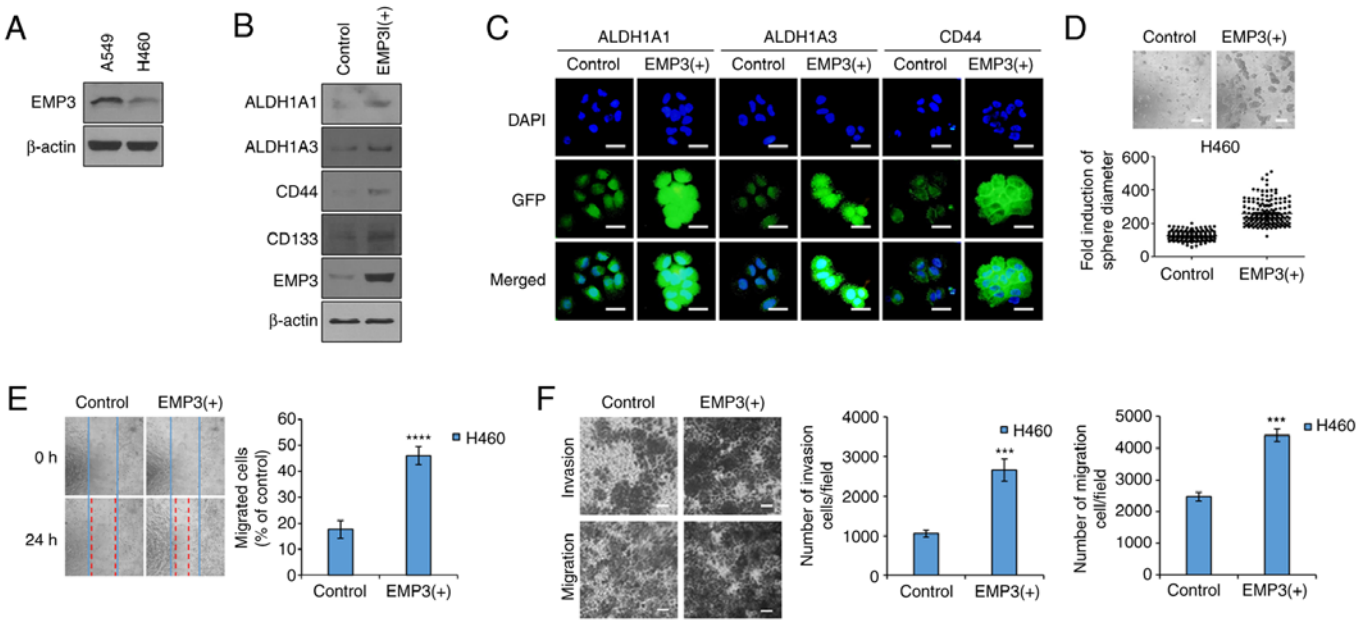

Table SI. Microarray analysis of EMP family members in the aldehyde dehydrogenase $1^{-/+}$ cells.

Gene	Normalized	Raw	Genbank accession no.
EMP3	14.749069	74358.16	NM_001425
Peripheral myelin protein 22	2.3388453	56314.58	NM_000304
EMP1	0.16880697	1884.578	NM_001423

EMP, epithelial membrane protein.

Table SII. Sequences of the small interfering RNAs used.

Target gene	Duplex	Sequence
Epithelial membrane	1	CUGCUUUUCGUGGCCACUU=tt(1-AS)
protein 3	2	AAGUGGCCACGAAAAGCAG=tt(1-AA)
Transforming growth	1	CAGUGAUCACACUCCAUGU=tt(1-AS)
factor β receptor 2	2	ACAUGGAGUGUGAUCACUG=tt(1-AA)

AS: A, amino acid, S, sense; AA: A, amino acid, A, anti sense.