

Table SI. Identification and information of epithelial ovarian cancer cell lines.

Attribute	Cell line		
	SK-OV-3	OVCAR-3	A2780
RRID	CVCL_0532	CVCL_DH37	CVCL_0134
Disease	Ovarian serous cystadenocarcinoma	High-grade ovarian serous adenocarcinoma	Ovarian endometrioid adenocarcinoma
Derived from	Ascites	Ascites	Ovary

The RRID was obtained from the RRID Portal (<https://scicrunch.org/resources>). RRID, Research Resource Identifier.

Table SII. Sequences of primers for Tet-On plasmid cloning.

Gene	Sequence (5'-3')	GenBank ID
STAT1 α		NM_007315.3
Forward	cgcctggagaattggctagcATGTCTCAGTGGTACGAAC	
Reverse	gagaagttagtgccaccggtTACTGTGTTTCATCATACTGTC	
STAT1 β		NM_139266.2
Forward	cgcctggagaattggctagcATGTCTCAGTGGTACGAAC	
Reverse	gagaagttagtgccaccggtCACTTCAGACACAGAAATCAAC	

The lowercase letters are non-gene-specific bases of a linker; the capital letters are the bases of the gene-specific core sequence. STAT1 α , https://www.ncbi.nlm.nih.gov/nucore/NM_007315.3/; STAT1 β , https://www.ncbi.nlm.nih.gov/nucore/NM_139266.2.

Table SIII. Inserted sequences of STAT1 α/β for Tet-On plasmids.

>NM_007315.3 <i>Homo sapiens</i> STAT1, transcript variant α , mRNA	>NM_139266.2 <i>Homo sapiens</i> STAT1, transcript variant β , mRNA
ATGTCTCAGTGGTACGAACTTCAGCAGCTTGACT CAAAATTCCTGGAGCAGGTTACCAGCTTTATGA TGACAGTTTTCCCATGGAAATCAGACAGTACCTG GCACAGTGGTTAGAAAAGCAAGACTGGGAGCAC GCTGCCAATGATGTTTCATTTGCCACCATCCGTTT TCATGACCTCCTGTCACAGCTGGATGATCAATATA GTCGCTTTTCTTTGGAGAATAACTTCTTGCTACAG CATAACATAAGGAAAAGCAAGCGTAATCTTCAGG ATAATTTTCAGGAAGACCCAATCCAGATGTCTATG ATCATTTACAGCTGTCTGAAGGAAGAAAGGAAAA TTCTGGAAAACGCCCAGAGATTTAATCAGGCTCA GTCGGGGAATATTCAGAGCACAGTGATGTTAGAC AAACAGAAAGAGCTTGACAGTAAAGTCAGAAAT GTGAAGGACAAGGTTATGTGTATAGAGCATGAAA TCAAGAGCCTGGAAGATTTACAAGATGAATATGA CTTCAAATGCAAAACCTTGCAGAACAGAGAACA CGAGACCAATGGTGTGGCAAAGAGTGATCAGAA ACAAGAACAGCTGTTACTCAAGAAGATGTATTTA ATGCTTGACAATAAGAGAAAAGGAAGTAGTTCACA AAATAATAGAGTTGCTGAATGTCACTGAACTTACC CAGAATGCCCTGATTAATGATGAACTAGTGGAGT GGAAGCGGAGACAGCAGAGCGCCTGTATTGGGG GGCCGCCCAATGCTTGCTTGATCAGCTGCAGAA CTGGTTCACTATAGTTGCGGAGAGTCTGCAGCAA GTTTCGGCAGCAGCTTAAAAAGTTGGAGGAATTGG AACAGAAATACACCTACGAACATGACCCTATCAC AAAAAACAACAAGTGTTATGGGACCGCACCTTC AGTCTTTTCCAGCAGCTCATTAGAGCTCGTTTGT GGTGGAAGACAGCCCTGCATGCCAACGCACCC TCAGAGGCCGCTGGTCTTGAAGACAGGGGTCCA GTTCACTGTGAAGTTGAGACTGTTGGTGAAATTG CAAGAGCTGAATTATAATTTGAAAGTCAAAGTCT TATTTGATAAAGATGTGAATGAGAGAAATACAGTA AAAGGATTTAGGAAGTTCAACATTTTGGGCACGC ACACAAAAGTGATGAACATGGAGGAGTCCACCA ATGGCAGTCTGGCGGCTGAATTTTCGGCACCTGCA ATTGAAAGAACAGAAAAATGCTGGCACCAGAAC GAATGAGGGTCCTCTCATCGTTACTGAAGAGCTT CACTCCCTTAGTTTTGAAACCCAATTGTGCCAGC CTGGTTTGGTAATTGACCTCGAGACGACCTCTCT GCCC GTTGTGGTGATCTCCAACGTCAGCCAGCTC CCGAGCGGTTGGGCCTCCATCCTTTGGTACAACA TGCTGGTGGCGGAACCCAGGAATCTGTCCTTCTT CCTGACTCCACCATGTGCACGATGGGCTCAGCTT TCAGAAGTGCTGAGTTGGCAGTTTTCTTCTGTCA CCAAAAGAGGTCTCAATGTGGACCAGCTGAACAT GTTGGGAGAGAAGCTTCTTGGTCCTAACGCCAGC CCCGATGGTCTCATTCCGTGGACGAGGTTTTGTGTA AGGAAAATATAAATGATAAAAATTTTCCCTTCTGG CTTTGGATTGAAAGCATCCTAGAACTCATTAATAA AACACCTGCTCCCTCTCTGGAATGATGGGTGCAT CATGGGCTTCATCAGCAAGGAGCGAGAGCGTGCC CTGTTGAAGGACCAGCAGCCGGGGACCTTCCTGC TGCGGTTCAAGTGAAGAGCTCCCGGGAAGGGGCCA TCACATTCACATGGGTGGAGCGGTCCCAGAACGG	ATGTCTCAGTGGTACGAACTTCAGCAGCTTGACT CAAAATTCCTGGAGCAGGTTACCAGCTTTATGA TGACAGTTTTCCCATGGAAATCAGACAGTACCTG GCACAGTGGTTAGAAAAGCAAGACTGGGAGCAC GCTGCCAATGATGTTTCATTTGCCACCATCCGTTT TCATGACCTCCTGTCACAGCTGGATGATCAATATA GTCGCTTTTCTTTGGAGAATAACTTCTTGCTACAG CATAACATAAGGAAAAGCAAGCGTAATCTTCAGG ATAATTTTCAGGAAGACCCAATCCAGATGTCTATG ATCATTTACAGCTGTCTGAAGGAAGAAAGGAAAA TTCTGGAAAACGCCCAGAGATTTAATCAGGCTCA GTCGGGGAATATTCAGAGCACAGTGATGTTAGAC AAACAGAAAGAGCTTGACAGTAAAGTCAGAAAT GTGAAGGACAAGGTTATGTGTATAGAGCATGAAA TCAAGAGCCTGGAAGATTTACAAGATGAATATGA CTTCAAATGCAAAACCTTGCAGAACAGAGAACA CGAGACCAATGGTGTGGCAAAGAGTGATCAGAA ACAAGAACAGCTGTTACTCAAGAAGATGTATTTA ATGCTTGACAATAAGAGAAAAGGAAGTAGTTCACA AAATAATAGAGTTGCTGAATGTCACTGAACTTACC CAGAATGCCCTGATTAATGATGAACTAGTGGAGT GGAAGCGGAGACAGCAGAGCGCCTGTATTGGGG GGCCGCCCAATGCTTGCTTGATCAGCTGCAGAA CTGGTTCACTATAGTTGCGGAGAGTCTGCAGCAA GTTTCGGCAGCAGCTTAAAAAGTTGGAGGAATTGG AACAGAAATACACCTACGAACATGACCCTATCAC AAAAAACAACAAGTGTTATGGGACCGCACCTTC AGTCTTTTCCAGCAGCTCATTAGAGCTCGTTTGT GGTGGAAGACAGCCCTGCATGCCAACGCACCC TCAGAGGCCGCTGGTCTTGAAGACAGGGGTCCA GTTCACTGTGAAGTTGAGACTGTTGGTGAAATTG CAAGAGCTGAATTATAATTTGAAAGTCAAAGTCT TATTTGATAAAGATGTGAATGAGAGAAATACAGTA AAAGGATTTAGGAAGTTCAACATTTTGGGCACGC ACACAAAAGTGATGAACATGGAGGAGTCCACCA ATGGCAGTCTGGCGGCTGAATTTTCGGCACCTGCA ATTGAAAGAACAGAAAAATGCTGGCACCAGAAC GAATGAGGGTCCTCTCATCGTTACTGAAGAGCTT CACTCCCTTAGTTTTGAAACCCAATTGTGCCAGC CTGGTTTGGTAATTGACCTCGAGACGACCTCTCT GCCC GTTGTGGTGATCTCCAACGTCAGCCAGCTC CCGAGCGGTTGGGCCTCCATCCTTTGGTACAACA TGCTGGTGGCGGAACCCAGGAATCTGTCCTTCTT CCTGACTCCACCATGTGCACGATGGGCTCAGCTT TCAGAAGTGCTGAGTTGGCAGTTTTCTTCTGTCA CCAAAAGAGGTCTCAATGTGGACCAGCTGAACAT GTTGGGAGAGAAGCTTCTTGGTCCTAACGCCAGC CCCGATGGTCTCATTCCGTGGACGAGGTTTTGTGTA AGGAAAATATAAATGATAAAAATTTTCCCTTCTGG CTTTGGATTGAAAGCATCCTAGAACTCATTAATAA AACACCTGCTCCCTCTCTGGAATGATGGGTGCAT CATGGGCTTCATCAGCAAGGAGCGAGAGCGTGCC CTGTTGAAGGACCAGCAGCCGGGGACCTTCCTGC TGCGGTTCAAGTGAAGAGCTCCCGGGAAGGGGCCA TCACATTCACATGGGTGGAGCGGTCCCAGAACGG

AGGCGAACCTGACTTCCATGCGGTTGAACCCTAC
ACGAAGAAAGAACTTTCTGCTGTTACTTTCCCTG
ACATCATTCGCAATTACAAAGTCATGGCTGCTGA
GAATATTCCTGAGAATCCCCTGAAGTATCTGTATC
CAAATATTGACAAAGACCATGCCTTTGGAAAGTA
TTACTCCAGGCCAAAGGAAGCACCAGAGCCAAT
GGAAC TTGATGGCCCTAAAGGAACTGGATATATC
AAGACTGAGTTGATTTCTGTGTCTGAAGTTCACC
CTTCTAGACTTCAGACCACAGACAACCTGCTCCC
CATGTCTCCTGAGGAGTTTGACGAGGTGTCTCGG
ATAGTGGGCTCTGTAGAATTCGACAGTATGATGAA
CACAGTATAG

AGGCGAACCTGACTTCCATGCGGTTGAACCCTAC
ACGAAGAAAGAACTTTCTGCTGTTACTTTCCCTG
ACATCATTCGCAATTACAAAGTCATGGCTGCTGA
GAATATTCCTGAGAATCCCCTGAAGTATCTGTATC
CAAATATTGACAAAGACCATGCCTTTGGAAAGTA
TTACTCCAGGCCAAAGGAAGCACCAGAGCCAAT
GGAAC TTGATGGCCCTAAAGGAACTGGATATATC
AAGACTGAGTTGATTTCTGTGTCTGAAGTGTA

STAT1 α , https://www.ncbi.nlm.nih.gov/nuccore/NM_007315.3/; STAT1 β :
https://www.ncbi.nlm.nih.gov/nuccore/NM_139266.2.

Table SIV. Primer sequences for reverse transcription-quantitative PCR.

Gene	Sequence (5'-3')	GenBank ID	Position
Total STAT1		-	
Forward	TCCGTTTTTCATGACCTCCTG		-
Reverse	TGAATATTCCCCGACTGAGC		-
STAT1 α		NM_007315	
Forward	GGAAGCACCAGAGCCAATG		nt 2,364-2,382
Reverse	GAAGGAAAACGTGCGCCAGAG		nt 2,604-2,584
STAT1 β		NM_139266	
Forward	GGAAGCACCAGAGCCAATG		nt 2,364-2,382
Reverse	CATGTCACTCTTCTGTGTTCAC		nt 2,470-2,449
CASP8		NM_001080125	
Forward	CGGACTCTCCAAGAGAACAGG		nt 1,000-1,020
Reverse	TCAAAGGTCGTGGTCAAAGCC		nt 1,198-1,178
FAS		NM_000043	
Forward	AGATTGTGTGATGAAGGACATGG		nt 392-414
Reverse	TGTTGCTGGTGAGTGTGCATT		nt 566-546
β -actin		NM_001101	
Forward	TCATCACCATTGGCAATGAG		nt 824-843
Reverse	CACTGTGTTGGCGTACAGGT		nt 978-959

STAT1 α , https://www.ncbi.nlm.nih.gov/nucore/NM_007315.3/; STAT1 β , https://www.ncbi.nlm.nih.gov/nucore/NM_139266.2; CASP8, https://www.ncbi.nlm.nih.gov/nucore/NM_001080125; FAS, https://www.ncbi.nlm.nih.gov/nucore/NM_000043; β -actin, https://www.ncbi.nlm.nih.gov/nucore/NM_001101. CASP8, caspase-8; FAS, Fas cell surface death receptor; nt, nucleotide.

Table SV. Primer sequences for the dual-luciferase reporter gene assay.

Genes and primers	Sequence (5'-3')	Position in sequence	Name of plasmid
CASP8			
Forward 1	actggccggtacctgagctcGTGTGGTTTCTCTCTGAGCC	-2,078 bp~TSS	pGL4-CASP8-2000
Forward 2	actggccggtacctgagctcCTATGCGATCTCAGGCAAG	-1,557 bp~TSS	pGL4-CASP8-1557
Forward 3	actggccggtacctgagctcCTCAGCCTTCAGATTAGCTGG	-1,249 bp~TSS	pGL4-CASP8-1249
Forward 4	actggccggtacctgagctcCATCTAACTCTCAGTATGAAGGC	-863 bp~TSS	pGL4-CASP8-863
Reverse	cgaggccagatcttgatataCTTACTCTCACGATGGTAGC	-	-
FAS			
Forward 1	actggccggtacctgagctcTATAATTACCCAACCCTTTGACATTAGC	-2,109 bp~TSS	pGL4-CASP8-2000
Forward 2	actggccggtacctgagctcCAGAGTGAGGTGCAGAGCTTG	-1,019 bp~TSS	pGL4-CASP8-1019
Reverse	cgaggccagatcttgatataCAGAGGTAGGAGGGTCCAGATG	-	-

The lowercase letters indicate a linker of non-gene-specific 5' overhangs; the capital letters are the bases of the promoter-specific sequence. The numbers of bp indicate the sequences located at the upstream positions from the TSS. GenBank accession number: CASP8, NM_001080125; FAS, NM_000043. CASP8, caspase-8; FAS, Fas cell surface death receptor; TSS, transcription start site.