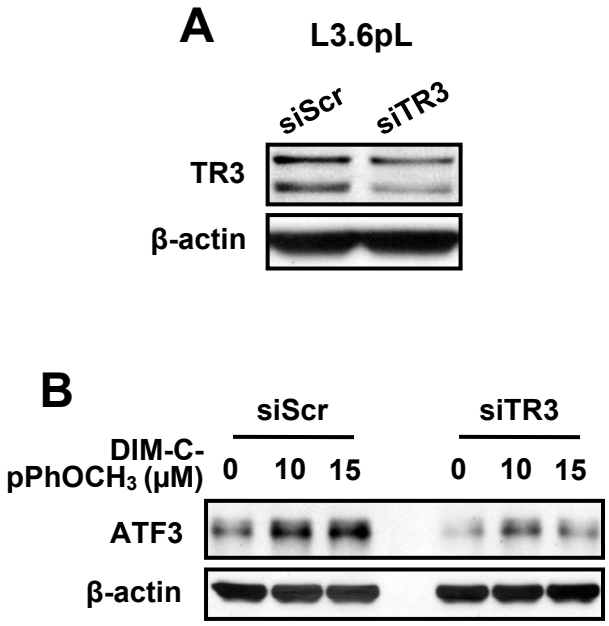
Supplementary Table 1. Induction of different classes of genes by DIM-C-pPhOCH$_3$ in L3.6pl cells using the Amersham Biosciences CodeLink human whole genome array.

Description	Genbank	Relative expression	
		2 h/DMSO	6 h/DMSO
Metabolism/homeostasis			
Asparagine synthase; ASNS	NM_001673	3.12	4.10
Dehydrogenase/reductase (SDR family) member 9; DHRS9	NM_005771	1.49	4.83
DIP2 disco-interacting protein 2 homolog C; DIP2C	BF726674	5.36	2.46
Glutamine-fructose-6-phosphate transaminase 1; GFPT1	NM_002056	0.91	2.58
Heme oxygenase (decycling); HMOX1	NM_002133	1.41	2.87
Homocysteine-inducible, endoplasmic reticulum stress-inducible, ubiquitin-like domain member 1; HERPUD1	NM_014685	1.40	5.09
Hyaluronan synthase 3; HAS3	NM_005329	3.03	2.57
Insulin induced gene 1; INSIG1	NM_198336	2.07	2.60
3-Ketodihydrosphingosine reductase; KDSR	BQ279242	2.93	4.17
Methylene tetrahydrofolate dehydrogenase (NAD+- dependent), methenyltetrahydrofolate cyclohydrolase; MTHFD2	NM_006636	1.33	2.64
Ornithine decarboxylase 1; ODC1	NM_002539	2.21	2.96
Prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase); PTGS2	NM_000963	4.22	6.38
TCDD-inducible poly(ADP-ribose) polymerase; TIPARP	NM_015508	3.36	1.88
Thioredoxin reductase 1	NM_003330	3.43	4.18
Very low density lipoprotein receptor; VLDLR	NM_003383	1.06	2.88
Signal transduction			
ADP-ribosylation factor-like 5B; ARL5B	NM_178815	2.85	1.62
Adrenomedullin 2; ADM2	NM_024866	0.93	3.22
Amphiregulin; AREG	NM_001657	3.01	3.68
Cholinergic receptor, muscarinic 2; CHRM2	AI221812	1.32	3.33
Connective tissue growth factor; CTGF	NM_001901	6.64	0.62
Diphtheria toxin receptor (heparin-binding epidermal growth factor-like growth factor); HBEGF	NM_001945	3.46	6.03
Epiregulin; EREG	NM_001432	3.06	3.5
Forkhead box C2 (MFH-1, mesenchyme forkhead 1); FOXC2	BF589934	2.62	1.36
GTP binding protein overexpressed in skeletal muscle; GEM	NM_005261	7.1	1.17
Inhibin, beta A; INHBA	NM_002192	2.77	2.70
Interleukin 11; IL11	NM_000641	3.19	2.59
Jun oncogene; JUN	NM_002228	3.78	2.27
Mitogen-activated protein kinase kinase kinase 8; MAP3K8	NM_005204	3.21	1.31
Plasminogen activator, urokinase; PLAU	NM_002658	2.69	2.91
Plasminogen activator, urokinase receptor; PLAUR	NM_002659	3.10	2.81
Protein tyrosine phosphatase, receptor type, E; PTPRE	NM_006504	2.31	4.51
Ras, dexamethasone-induced 1; RASD1	NM_016084	5.32	3.32
Rho GTPase activating protein 15; ARHGAP15	NM_018460	2.92	1.7
Stanniocalcin 2; STC2	NM_003714	2.06	4.73
Transmembrane protein 2; TMEM2	NM_013390	4.24	2.53
Tribbles homolog 1; TRIB1	NM_025195	4.57	3.9
Wingless-type MMTV integration site family member 9A; WNT9A	BF222744	4.43	3.31

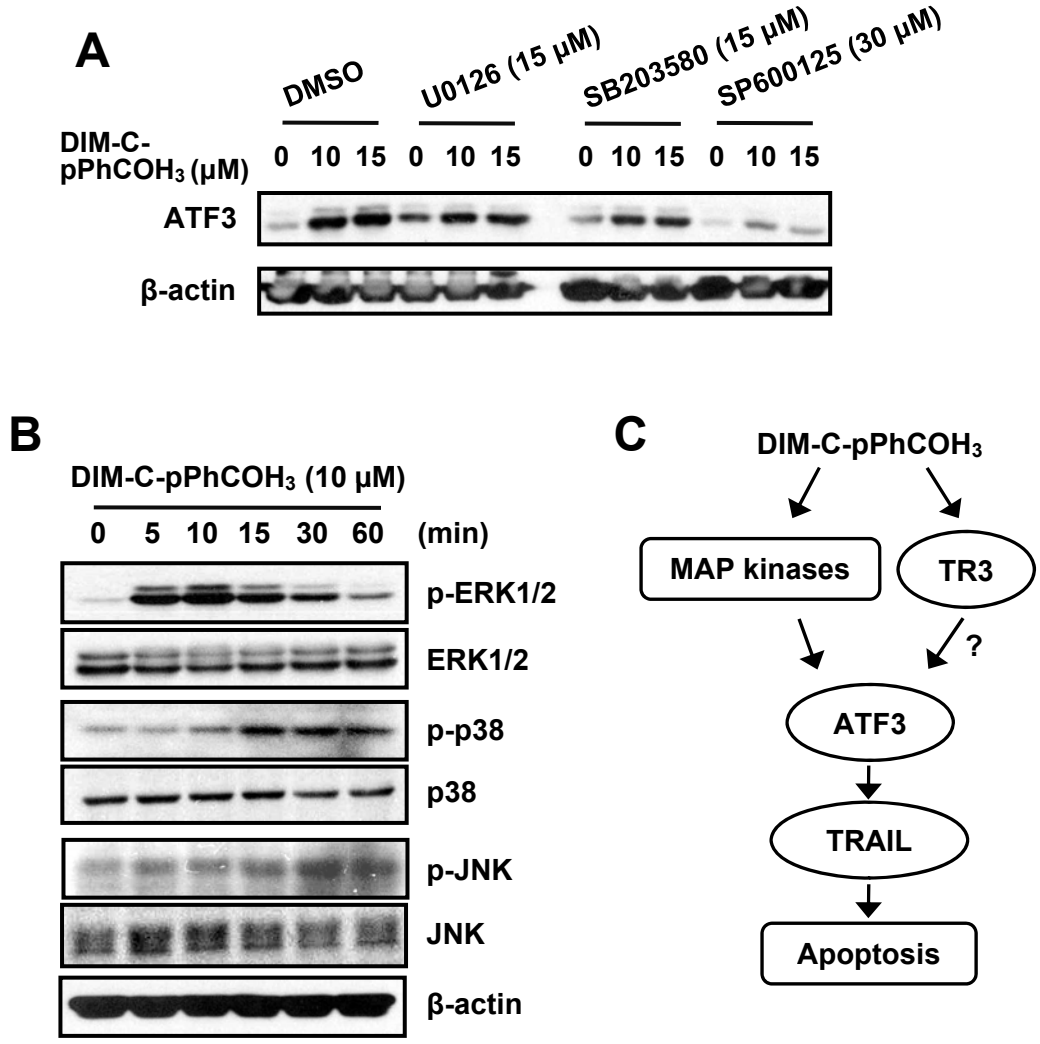
Description	Genbank	Relative expression	
		2 h/DMSO	6 h/DMSO
Transcription			
Cysteine-serine-rich nuclear protein 1; CSRNP1	NM_033027	3.72	2.32
E2F transcription factor 7; E2F7	BG033282	2.98	2.75
FOS-like antigen 1; FOSL1	NM_005438	3.22	1.87
Iroquois homeobox protein 5; IRX5	NM_005853	2.71	1.12
MAX dimerization protein 1	NM_002357	1.97	3.15
Nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2; NFATC2	AU185751	2.80	1.50
S100 calcium binding protein A1; S100A1	NM_006271	3.38	3.19
SERTA domain containing 1; SERTAD1	NM_013376	4.13	1.37
X-box binding protein 1; XBP1	NM_005080	1.58	2.78
Stress			
ERBB receptor feedback inhibitor 1; ERRFI1	NM_018948	2.64	3.09
Protein phosphatase 1, regulatory (inhibitor) subunit 15A; PPP1R15A	NM_014330	2.88	2.34
V-maf musculoaponeurotic fibrosarcoma oncogene homolog F (avian); MAFF	NM_012323	3.28	1.2
Transport			
Basic helix-loop-helix family, member a15; BHLHA15	AA367338	0.94	5.09
Casein alpha s1; CSN1S1	NM_001890	2.80	2.93
Neuronal pentraxin 1; NPTX1	NM_002522	6.10	6.10
Solute carrier family 30 (zinc transporter), member 1; SLC30A1	NM_021194	1.85	2.65
Sorting nexin 9; SNX9	NM_016224	2.16	3.14
Syntaxin 11; STX11	NM_003764	4.96	2.61
Immune response			
Chemokine (C-X-C motif) ligand 2; CXCL2	NM_002089	3.07	2.45
Colony stimulating factor 2 (granulocyte-macrophage); CSF2	NM_000758	1.67	2.56
Interleukin 1, alpha; IL1A	NM_000575	1.75	3.57
Secreted and transmembrane 1; SECTM1	NM_003004	3.69	3.04
V-ets erythroblastosis virus E26 oncogene homolog 1 (avian); ETS 1	NM_005238	3.09	1.55
Others			
Angiomotin like 2; AMOTL2	NM_016201	3.72	1.48
Claudin 4; CLDN4	NM_001305	2.83	1.46
Endothelial cell-specific molecule 1; ESM1	NM_007036	3.12	3.66
Cytochrome P450, family 1, subfamily B, polypeptide 1; CYP1B1	NM_000104	4.36	3.03
DnaJ (Hsp40) homolog, subfamily B, member 1; DNAJB1	NM_006145	2.73	1.27
DnaJ (Hsp40) homolog, subfamily B, member 9; DNAJB9	NM_012328	1.81	5.48
Interferon stimulated gene 20kDa; ISG20	NM_002201	1.25	2.65
Interleukin 13 receptor, alpha 2; IL13RA2	NM_000640	1.15	4.80
Matrix metalloproteinase 3 (stromelysin 1, progelatinase); MMP3	NM_002422	1.46	4.58
N-myc downstream regulated gene 1; NDRG1	NM_006096	3.11	3.67

Supplementary Figure 1



Supplemental Figure 1. TR3-dependent induction of ATF3 by DIM-C-pPhOCH$_3$ in L3.6pl cells. (A) and (B) L3.6pL cells were transfected with either siScr or siTR3, and treated with different concentrations of DIM-C-pPhCH$_3$ for 6 hr. Whole cell lysates were analyzed by western blot analysis, and β-actin was used as a loading control.

Supplementary Figure 2



Supplemental Figure 2. TR3-independent induction of ATF3 by DIM-C-pPhOCH$_3$ through MAP kinase pathways. (A) Panc1 cells were pretreated with each MAP kinase inhibitor for 1 hr, and cells were then treated with DIM-C-pPhOCH$_3$ for 6 hr. (B) Panc1 cells were treated with DIM-C-pPhCH$_3$, and the cells were harvested at the indicated time points. Whole cell lysates were analyzed by western blot analysis, and β-actin was used as a loading control. (C) Schematic diagram summarizing DIM-C-pPhOCH$_3$-induced apoptosis through TR3-dependent and -independent induction of ATF3 in human pancreatic cancer cells.