

SUPPLEMENTAL MATERIAL

Kang et al., <http://www.jem.org/cgi/content/full/jem.20141254/DC1>**Table S1.** Gene counts for all genes commonly up-regulated by shPLD1 in DLD1 and HCT116 cells (>1.25-fold change)

RefSeq accession no.	GeneSymbol	shPLD1/shCTRL fold change	
		DLD1 cells	HCT116 cells
NM_001605.2	AARS	1.54	1.49
NM_005165.2	ALDOC	1.27	1.57
NM_000479.3	AMH	1.46	1.37
NM_001039667.2	ANGPTL4	1.36	1.47
NM_004723.3	ARHGEF2	1.47	1.49
NM_133436.2	ASNS	1.26	1.47
NM_006538.4	BCL2L11	2.05	1.85
NM_153274.2	BEST4	1.33	1.28
NM_001009894.2	C12orf29	1.28	1.42
NM_018353.4	C14orf106	1.26	1.46
NM_182597.2	C7orf53	1.27	1.25
NM_023925.4	CAPRIN2	1.30	1.25
NM_003655.2	CBX4	1.81	1.28
NM_175709.2	CBX7	1.36	2.51
NM_145697.2	CDCA1	1.30	1.34
NM_004064.3	CDKN1B	2.12	2.16
NM_001800.3	CDKN2D	1.36	2.87
NM_001806.3	CEBPG	1.43	1.49
NM_007007.2	CPSF6	1.27	1.40
NM_020248.2	CTNNBIP1	1.81	1.63
NM_019885.3	CYP26B1	2.21	2.89
NM_004083.5	DDIT3	1.29	1.82
XM_931833.2	DDX12	1.45	1.29
NM_031471.5	FERMT3	1.34	1.30
NM_002569.3	FURIN	1.39	1.37
NM_003857.3	GALR2	1.68	1.68
NM_001498.3	GCLC	1.75	1.32
NM_005347.3	HSPA5	1.41	1.54
NM_031207.3	HY1	1.30	1.29
NM_004523.3	KIF11	1.31	1.34
NM_001007075.2	KLHL5	1.42	1.37
NM_007043.6	KRR1	1.26	1.45
NM_022040.3	LAT2	1.41	1.28
NM_014981.1	MYH15	1.43	1.38
NM_173199.2	NR4A3	1.86	2.56
NM_003873.5	NRP1	1.38	1.43
NM_001042483.1	NUPR1	1.44	1.47
NM_000930.3	PLAT	1.50	1.29
NM_021127.2	PMAIP1	1.89	2.06
NM_006252.3	PRKAA2	2.32	2.32
NM_018663.2	PXMP2	1.28	1.29
NM_022912.2	REEP1	1.68	1.38
NM_144726.2	RNF145	1.31	1.38
NM_001013251.2	SLC3A2	1.33	1.28
NM_006939.2	SOS2	1.79	1.69
NM_003900.4	SQSTM1	1.32	1.44

Table S1. Gene counts for all genes commonly up-regulated by shPLD1 in DLD1 and HCT116 cells (>1.25-fold change)
(Continued)

RefSeq accession no.	GeneSymbol	shPLD1/shCTRL fold change	
		DLD1 cells	HCT116 cells
NM_007107.3	SSR3	2.11	1.35
NM_032431.2	SYVN1	1.43	1.68
NM_016111.3	TELO2	1.31	1.32
NM_017905.4	TMCO3	1.26	1.42
NM_173633.2	TMEM145	1.27	1.40
NM_003842.4	TNFRSF10B	1.28	1.80
NM_022371.3	TOR3A	1.68	1.25
NM_005427.2	TP73	2.06	2.00
NM_003364.3	UPP1	1.27	1.87
NM_003378.3	VGf	1.41	1.90
BC064139		1.31	1.32
AL833381		1.30	1.34
AK124299		1.30	1.34
DR977977		1.25	1.28
NM_213647.2	FGFR4	1.44	1.38
NM_000872.4	HTR7	1.37	1.41
NM_000028.2	AGL	1.36	1.31
NR_022014.1	C15orf21	1.28	1.28
NM_024511.5	C4orf15	1.33	1.29
NM_017423.2	GALNT7	1.37	1.33
NM_004491.4	GRLF1	1.34	1.26
NM_015275.2	KIAA1033	1.26	1.31
NM_001080429.2	KIAA1543	1.31	1.26
NM_003023.4	SH3BP2	1.26	1.26
NR_003199.1	SNORD114-7	1.31	1.28
NM_139171.1	STARD6	1.28	1.38

Table S2. Gene counts for all genes commonly down-regulated by shPLD1 in DLD1 and HCT116 cells (less than -1.25 -fold change)

RefSeq accession no.	GeneSymbol	shPLD1/shCTRL fold change	
		DLD1 cells	HCT116 cells
NM_001627.3	ALCAM	-1.81	-1.89
NM_030660.3	ATXN3	-1.27	-1.28
NM_004217.3	AURKB	-2.02	-1.94
NM_001195.3	BFSP1	-1.27	-1.76
NM_130851.2	BMP4	-1.90	-2.98
NM_004053.3	BYSL	-2.01	-1.98
NM_023938.5	C1orf116	-1.28	-1.27
NM_173518.4	C8orf45	-1.31	-1.28
NM_053056.2	CCND1	-1.79	-2.57
NM_001760.3	CCND3	-2.06	-2.15
NM_013230.3	CD24	-1.76	-3.72
NM_016579.3	CD320	-1.81	-1.96
NM_001001391.1	CD44	-2.02	-2.11
NM_001789.2	CDC25A	-2.08	-2.15
NM_005192.3	CDKN3	-1.92	-1.91
NM_001024912.2	CEACAM1	-1.44	-1.43
NM_152353.2	CLDND2	-2.02	-1.69
NM_001901.2	CTGF	-2.06	-2.39
NM_001098209.1	CTNNB1	-2.14	-1.79
NM_016229.4	CYB5R2	-1.50	-1.29
NM_032687.3	CYHR1	-1.30	-1.29
NM_004728.3	DDX21	-2.22	-1.75
NM_001037499	DEFB114	-1.26	-1.26
NM_021004.3	DHRS4	-1.46	-1.27
NM_004675.2	DIRAS3	-1.44	-1.28
NM_001363.3	DKC1	-1.96	-2.03
NM_004006.2	DMD	-1.30	-1.47
NM_004417.3	DUSP1	-1.65	-1.63
NM_003633.2	ENC1	-1.84	-2.11
NM_002354.2	EPCAM	-1.87	-2.05
NR_024241.1	FAM86D	-1.31	-1.27
NM_004114.3	FGF13	-1.38	-1.26
XM_028217.5	FLJ20021	-1.38	-1.52
NR_003661.2	FLJ43276	-1.37	-1.26
NM_005252.3	FOS	-2.24	-2.24
NM_006732.2	FOSB	-1.65	-1.54
NM_033260.3	FOXQ1	-1.97	-1.92
NM_198334.2	GANAB	-1.31	-1.25
NM_138737.2	HEPH	-1.26	-1.48
NM_138571.4	HINT3	-1.43	-1.78
NM_004838.3	HOMER3	-1.26	-1.26
NM_181353.2	ID1	-1.35	-1.36
NM_002166.4	ID2	-1.93	-3.32
NM_002167.3	ID3	-1.71	-2.08
NM_198267.1	ING3	-1.33	-1.27
NM_000214.2	JAG1	-2.11	-1.87
NM_002276.4	KRT19	-1.27	-1.26

Table S2. Gene counts for all genes commonly down-regulated by shPLD1 in DLD1 and HCT116 cells (less than -1.25 -fold change) (*Continued*)

RefSeq accession no.	GeneSymbol	shPLD1/shCTRL fold change	
		DLD1 cells	HCT116 cells
NM_016269.3	LEF1	-2.38	-2.07
NM_003667.3	LGR5	-1.92	-1.99
NM_005572.3	LMNA	-1.27	-1.32
XM_938779.2	LOC653972	-1.40	-1.26
NM_004811.2	LPXN	-1.36	-1.41
NM_024641.3	MANEA	-1.26	-1.29
NM_181509.2	MAP1LC3A	-1.36	-1.33
NM_000245.2	MET	-2.31	-2.03
NM_001004307.2	MGC33556	-1.33	-1.25
NM_153361.3	MGC42105	-1.44	-1.26
NM_002442.3	MSI1	-1.77	-1.90
NM_175617.3	MT1E	-1.32	-1.90
NM_002467.4	MYC	-1.98	-1.83
NM_032993.2	NOLA1	-2.16	-1.80
NM_005654.5	NR2F1	-1.38	-1.28
NM_006186.3	NR4A2	-1.34	-1.30
NM_022731.3	NUCKS1	-1.66	-1.81
NM_013248.2	NXT1	-1.64	-1.94
NM_001032409.1	OAS1	-1.26	-1.27
NM_000281.3	PCBD1	-1.28	-1.26
NM_003735.2	PCDHGA12	-1.28	-1.27
NM_017837.3	PIGV	-1.60	-1.46
NM_005084.3	PLA2G7	-1.33	-1.40
NM_002662.3	PLD1	-7.16	-4.08
NM_006017.2	PROM1	-1.94	-1.77
NM_004676.2	PRY	-1.27	-1.34
NM_002801.3	PSMB10	-1.34	-1.32
NM_000321.2	RB1	-2.26	-3.28
NM_002997.4	SDC1	-1.26	-1.52
NM_015685.4	SDCBP2	-1.32	-1.53
NR_003264.2	SDHALP1	-1.34	-1.28
NR_003142.2	SNHG9	-1.34	-1.33
NM_003107.2	SOX4	-2.09	-2.07
NM_018327.2	SPTLC3	-1.43	-1.26
NM_003146.2	SSRP1	-1.43	-1.42
NM_206928.2	SYTL2	-1.31	-1.48
NM_005645.3	TAF13	-1.33	-1.45
NM_201443.2	TEAD4	-1.95	-2.57
NM_033502.2	TRERF1	-1.40	-1.38
NM_017722.3	TRMT1	-1.91	-2.00
NM_005723.3	TSPAN5	-1.28	-1.33
NM_054035.2	UNC119	-1.44	-1.31
NM_199245.2	VAMP1	-1.29	-1.53
NM_020411.2	XAGE1D	-1.26	-1.25
NM_144684.2	ZNF480	-1.28	-1.33
NM_145806.3	ZNF511	-1.71	-1.99
NM_015871.4	ZNF593	-2.29	-1.59

Table S2. Gene counts for all genes commonly down-regulated by shPLD1 in DLD1 and HCT116 cells (less than -1.25 -fold change) (*Continued*)

RefSeq accession no.	GeneSymbol	shPLD1/shCTRL fold change	
		DLD1 cells	HCT116 cells
BE276063		-1.43	-1.30
AK091904		-1.27	-1.29
BU564425		-1.27	-1.28
BM702416		-1.53	-1.50

Table S3. The listed primer sets were used in promoter cloning of indicated genes

Promoter	Direction	Sequence
CD133	Forward	5'-AAAGGTACCCCCTTACCCTAGCCATCTGCGCCGC-3'
	Reverse	5'-CGCTCGAGCAAGAAGTACGATCGTGCACTTGCTTTCTTAAC-3'
CD44	Forward	5'-AAAGGTACCCTTCCCTCAGAAGTCCTGGCATGG-3'
	Reverse	5'-CCGCTCGAGTCAGGACAGAGGATGACCGA-3'
CD166	Forward	5'-CCTGAGCTCACCCCTGGCTTTACCATTGCT-3'
	Reverse	5'-CCGCTCGAGCGCCAATAAGAAGCAAGCAC-3'
EpCAM	Forward	5'-AAAGTACCACGCCCGGCTAATTTTGTAT-3'
	Reverse	5'-CCGCTCGAGGGGAGTTGGGGGAGTGAGTA-3'
β -catenin	Forward	5'-TTTGGTACCGTCTGAAGTGTGAAATAATCTTGCTTT-3'
	Reverse	5'-TTTAAGCTTCCAACGCTGCTGCCACAGACCGAGAGG-3'
miR-4496	Forward	5'-AAAGTACCCCACCCCGGCTAATTTTGTATTTATAG-3'
	Reverse	5'-TTTAAGCTTCTGATGTATGCAAAGCACCTACCAC-3'

Table S4. The listed primer sets were used in q-PCR for measuring gene expression relative to β -actin or 18S

Human gene	Forward	Reverse
<i>PLD1</i>	5'-AATCGTTGGAGGTTGGACTG-3'	5'-AGCATTTTCGAGCTGCTGTTGAA-3'
<i>RB1</i>	5'-TTGGGAGAAAGTTTCATCTGTGG-3'	5'-CGACATCTCATCTAGGTCAACTGC-3'
<i>CTNNB1</i>	5'-GGTTGCCTTGCTCAACAAAA-3'	5'-TCCCAAGGAGACCTTCCATC-3'
<i>E2F1</i>	5'-GTGTCGTCGACCTGAACTGG-3'	5'-CT1p7TCTTGGCAATGAGCTGGA-3'
<i>c-Myc</i>	5'-CGAGGAGGAGAACTTCTACCAGC-3'	5'-CGAGAAGCCGCTCCACATACAGTC-3'
<i>CCND1</i>	5'-TGCTCCTGGTGAACAAGCTC-3'	5'-AGGACAGGAAGTTGTTGGGG-3'
<i>PROM1</i>	5'-CAAAGAGGCGTTGGAGAAC-3'	5'-GCAGGCTAGTTTTTCACGCTG-3'
<i>CD44</i>	5'-TCCAACACCTCCCAGTATGACA-3'	5'-GGCAGGTCTGTGACTGATGTACA-3'
<i>ALCAM</i>	5'-AGATTGGTGATGCCCTACCC-3'	5'-GACGCTTCCACTGCCAGTAA-3'
<i>EpCAM</i>	5'-GGCCGTAAACTGCTTTGTGA-3'	5'-TTGAGCCATTCATTTCTGCC-3'
<i>CD24</i>	5'-TTCCTCCTGAGGCTTTGGATT-3'	5'-GAGGCTGAGGCAGGAGAATC-3'
<i>18S</i>	5'-CGTCTGCCCTATCAACTTTCG-3'	5'-TTCCTTGGATGTGGTAGCCG-3'
Mouse gene		
<i>PLD1</i>	5'-GACACAGAGACGGTCCCATC-3'	5'-CATTGGGAAGGCACCCGAAG-3'
<i>RB1</i>	5'-GAGCTACAGAAAAGCATAGAAAC-3'	5'-ACACGTCCGTTCTAATTTGCTG-3'
<i>β-catenin</i>	5'-GAGTAGCTGCAGGGTCTC-3'	5'-GGACAGCAGCTGCGTATGTT-3'
<i>E2F1</i>	5'-AAGGCCCATTTGATGTTTTTC-3'	5'-ATGTGGAGGGAGGTGATGGT-3'
<i>c-Myc</i>	5'-AAGCAGATCAGCAACAACCG-3'	5'-GCCTCTTGTGTTTTCTCC-3'
<i>cyclin D1</i>	5'-GCAAGCATGCACAGACCTTT-3'	5'-GCTTCAATCTGTTCTGGCA-3'
<i>CD133</i>	5'-GGATCAAAGGGACCCAGAAA-3'	5'-GGTCTGTTTGTGCGTGTGCG-3'
<i>CD44</i>	5'-TACCCACCATGGACCAATG-3'	5'-GTTGGCTGCACAGATAGCGT-3'
<i>CD166</i>	5'-ATGCCATCAAAGAAGGGGACAA-3'	5'-GACTGGAAAAGGAAGGGCTG-3'
<i>EpCAM</i>	5'-GGCGATGAAAGCAGAAATGA-3'	5'-AGTGGTCGTAGGGGCTTTCTCT-3'
<i>CD24</i>	5'-GACCGTGAAAGGTTTTGAGA-3'	5'-TCCAGCAGATTCAATAGCCG-3'
<i>β-actin</i>	5'-AAGGAAGGCTGAAAAGAGC-3'	5'-GCTACAGCTTCACCACCACA-3'

Table S5. Sequences of the promoter-specific primers used in ChIP assay

IP/anti-E2F1	Forward	Reverse
miR-4496	5'-GTTTTAAATGAAAACCAGAGACC-3'	5'-CTGATGTATGCAAAGCACCT-3'
IP/anti-β-catenin		
CD133	5'-GGTGAGTGTGCGAACTGGAC-3'	5'-TCTTGCCAGAGAGAAGGGGT-3'
CD44	5'-GAAGTCCTGGCATGGTTCCT-3'	5'-GGGGAAGCCTTTTGAGATTG-3'
CD166	5'-ACCCTGGCTTTACCATTGCT-3'	5'-GGGACGAAGGCAACAATACA-3'
EpCAM	5'-CAGGCTGGTCTCGAACTTCA-3'	5'-CACAGGCAGAGAACCTTCCA-3'