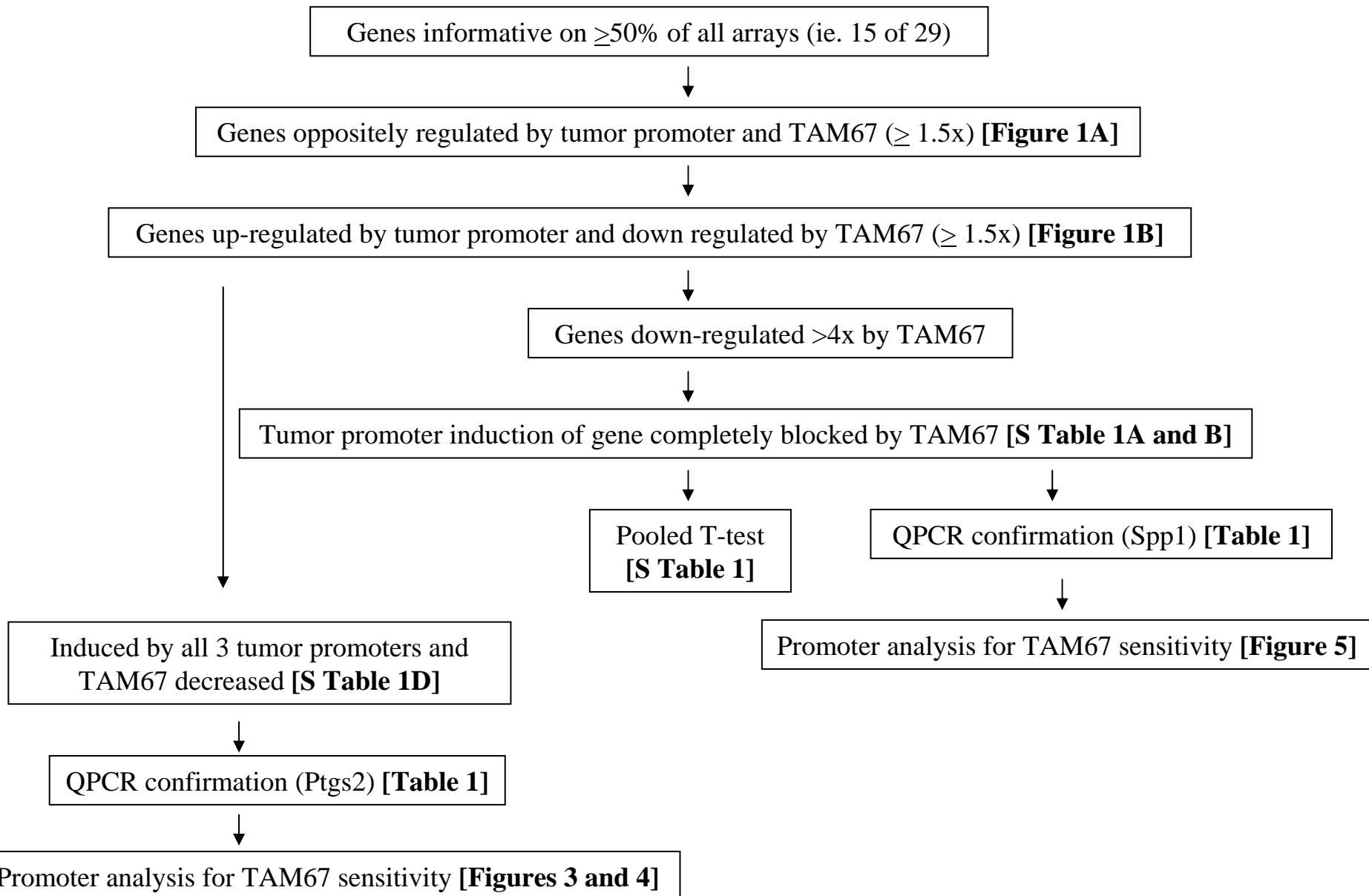


Figure S1: Data acquisition and analysis

Connie P. Matthews



S Table 1A: TPA-induction completely blocked by TAM67

Fold Change					
WT TPA/ WT	TAM TPA/TPA	p value TAM TPA/TPA	Entrez GeneID	Gene	Description
2.41	-6.99	0.004	11690	Alox5ap	arachidonate 5-lipoxygenase activating protein (Alox5ap).
7.23	-6.68	0.032	14288	Fpr-rs1	formyl peptide receptor, related sequence 1 (Fpr-rs1).
5.30	-6.60	0.062	20750	Spp1	secreted phosphoprotein 1 (Spp1).
2.19	-6.57	0.016	16774	Lama3	Laminin, alpha 3
5.79	-5.74	0.078	69677	Il1f8	PREDICTED: Mus musculus interleukin 1 family, member 8 (Il1f8).
2.19	-4.89	0.018	17970	Ncf2	neutrophil cytosolic factor 2 (Ncf2).
2.51	-4.86	0.015	72361	2210023G05Rik	RIKEN cDNA 2210023G05 gene (2210023G05Rik).
4.19	-4.81	0.023	66175	Mustn1	musculoskeletal, embryonic nuclear protein 1 (Mustn1).
4.68	-4.67	0.047	18793	Plaur	urokinase plasminogen activator receptor (Plaur).

S Table 1B: E7-induction completely blocked by TAM67

Fold Change					
E7/WT	E7 TAM/ E7	p value E7 TAM/ E7	Entrez GeneID	Gene	Description
10.98	-10.37	0.032	69781	1600010M07Rik	RIKEN cDNA 1600010M07 gene
5.17	-7.94	0.027	14825	Cxcl1	chemokine (C-X-C motif) ligand 1 (Cxcl1), mRNA.
2.95	-6.63	0.020	380797	Igh-6	Immunoglobulin heavy chain 6 (heavy chain of IgM)
2.06	-5.99	0.002	19411	Rarg	Retinoic acid receptor, gamma
4.41	-5.61	0.117	50527	Ero1l	ERO1-like (<i>S. cerevisiae</i>) (Ero1l), mRNA.
4.06	-4.70	0.188	20761	Sprr2g	small proline-rich protein 2G (Sprr2g), mRNA.
4.05	-4.32	0.070	20763	Sprr2i	small proline-rich protein 2I (Sprr2i), mRNA.
2.80	-4.21	0.113	11621	2310047C17Rik	RIKEN cDNA 2310047C17 gene
2.55	-4.16	0.004	67770	5830433M19Rik	RIKEN cDNA 5830433M19 gene

S Table 1C: E7/TPA-induction completely blocked by TAM67

Fold Change					
E7 TPA/ WT	E7 TAM TPA/ E7 TPA	P value E7 TAM TPA/ E7 TPA	Entrez GeneID	Gene	Description
3.52	-3.56	0.167	70405	Calml3	calmodulin-like 3 (Calml3), mRNA.
2.38	-2.22	0.127	14915	Guca2a	guanylate cyclase activator 2a (guanylin) (Guca2a), mRNA.
2.08	-2.17	0.048	71609	Tradd	TNFRSF1A-associated via death domain

S Table 1D: Induced by all 3 tumor promotion treatments and decreased by TAM67

Gene	Description	Fold change			Fold change			Fold change			Entrez ID
		TPA/ WT	TAM67 TPA/ TPA	p value TAM67 TPA/ TPA	E7/WT	E7 TAM67/ E7	p value E7 TAM67/ E7	E7TPA/ WT	E7 TAM67 TPA/E7 TPA	p value E7 TAM67 TPA/E7 TPA	
Ptgs2/COX-2	prostaglandin-endoperoxide synthase 2	4.99	-2.04	0.103	2.07	-1.79	0.323	6.41	-1.61	0.127	19225
Ncam1	Neural cell adhesion molecule 1	2.80	-1.61	0.158	2.29	-2.34		5.09	-1.70	0.308	17967
Rgs11	Mus musculus regulator of G-protein signaling	6.62	-2.65	0.060	2.29	-1.84		18.59	-1.83	0.049	50782
Il1r1l	interleukin 1 receptor-like 1	3.09	-1.63	0.441	5.46	-3.66	0.302	3.50	-1.67	0.193	17082
Ser tRNA	Mouse transfer RNA-Ser	9.64	-1.68	0.378	4.05	-2.18	0.029	9.84	-1.80	0.047	
	(clone DE-2) mRNA fragment.	2.72	-1.66	0.269	1.64	-1.56	0.383	10.48	-2.62	0.035	

S Table 2: TAM67 inhibits previously published AP-1/cJun targets

WT TPA/ WT	TAM TPA/TPA	E7/WT	E7 TAM/ E7	E7 TPA/ WT	E7 TAM TPA/ E7 TPA	Gene	Entrez GeneID	Change by TAM67 p value
5.30	-6.60	-2.02	1.05	-1.03	-1.19	Spp1	20750	0.062
4.68	-4.67	-1.21		1.30	-1.03	Plaur	18793	0.047
4.18	-3.80	1.28	-1.07	1.70	1.18	FlnC	68794	0.072
21.92	-2.07	1.00	1.34	11.88	-1.26	Dtr	15200	0.132
2.76	-2.03	-1.15	1.02	1.61	1.62	Mmp10	17384	0.013
2.41	-2.04	1.05	-1.08	-1.41	1.43	Vim	22352	0.116
4.99	-2.04	2.07	-1.79	6.41	-1.61	Ptgs2	19225	0.103,0.323,0.127
3.09	-1.63	5.46	-3.66	3.50	-1.67	Il1rl1	17082	0.441,0.321,0.192
5.44	1.02	2.20	-2.28	5.08	1.49	Bcl3	12051	0.051
6.51	-1.19	2.98	-2.43	7.83	1.00	Cd44	12505	0.107
-1.73	-1.62	-2.58	1.61	-8.05	2.00	Mgst1	56615	0.011
-3.55	-1.46	-1.63	-1.42	-7.24	2.66	Cav1	12389	0.035
-1.43	1.23	1.62	-1.22	-6.84	3.52	Car3	12350	0.156
-1.23	-1.31	-2.14	1.91	-2.62	-1.12	Mvd	192156	0.033
-1.58	1.48	-2.33	2.92	-1.37	1.20	Spry1	24063	0.005
-2.46	2.46	1.07	-1.31	-1.94	2.25	Lbh	77889	0.000
-4.33	3.26	1.87	-1.18	-1.70	-1.04	Stmn1	16765	0.012

Figure S2: Epidermal expression of COX-2 and OPN proteins in response to TPA and TAM67.

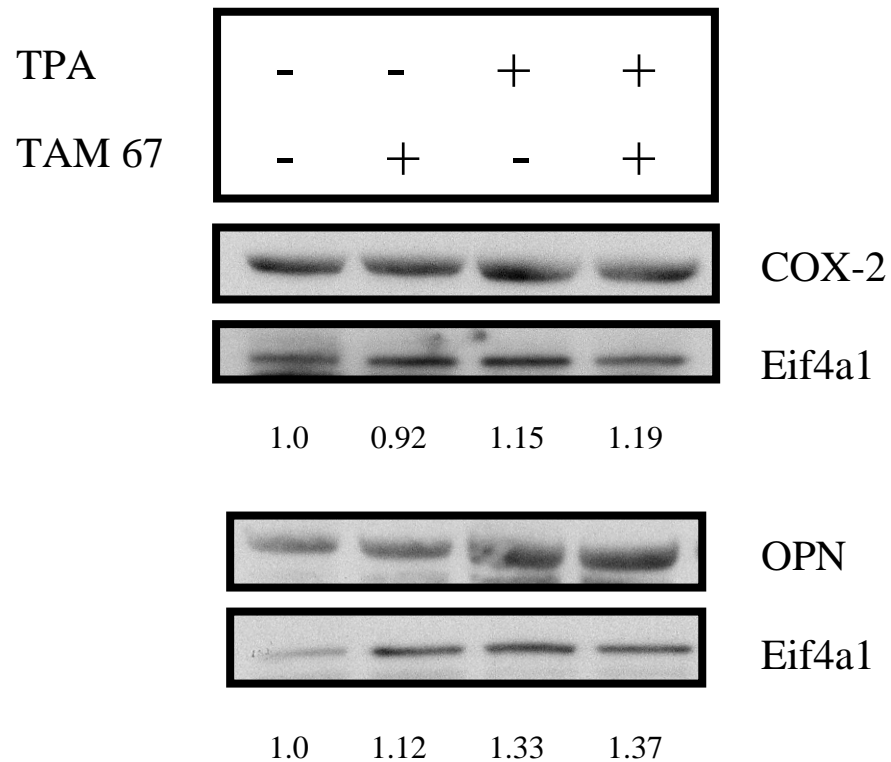


Figure S3: TAM67 inhibits TPA-induced AP-1 activity without inhibiting SRE, a marker of proliferation.

