

Supplementary Materials: Quercetin-Resveratrol Combination for Prostate Cancer Management in TRAMP mice

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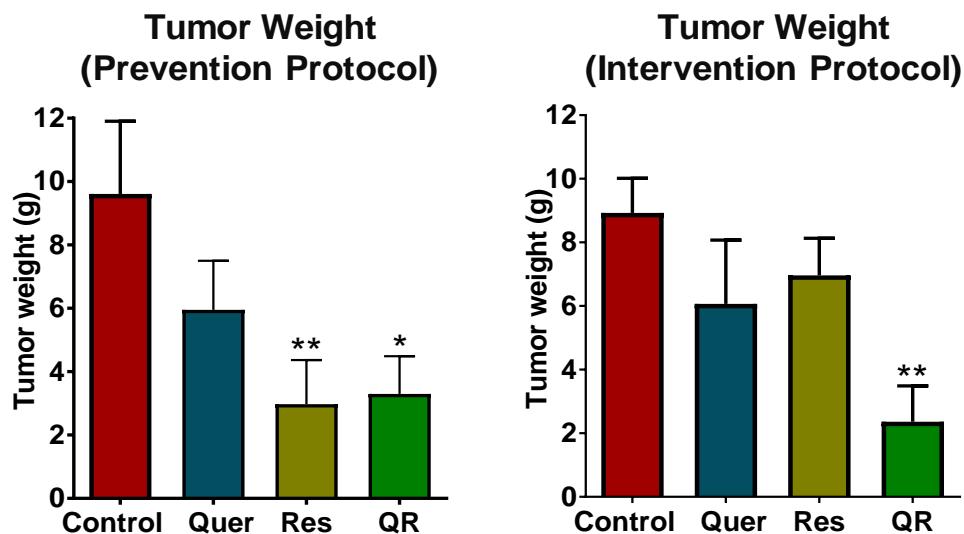


Figure S1. Tumor weight after removal of mice with no tumors at end of study. The re-analysis of tumor weight data presented in Figures 1C and 1E after the exclusion of TRAMP mice which failed to develop tumors (3 mice per group). Data is shown as mean \pm SEM of 9 animals per group. GraphPad Prism 5 Software (GraphPad Software Inc.) was used to perform statistical analyses on tumor data using a one-way analysis of variance (ANOVA) followed by Sidak multiple comparison tests (* p < 0.05, ** p < 0.01).

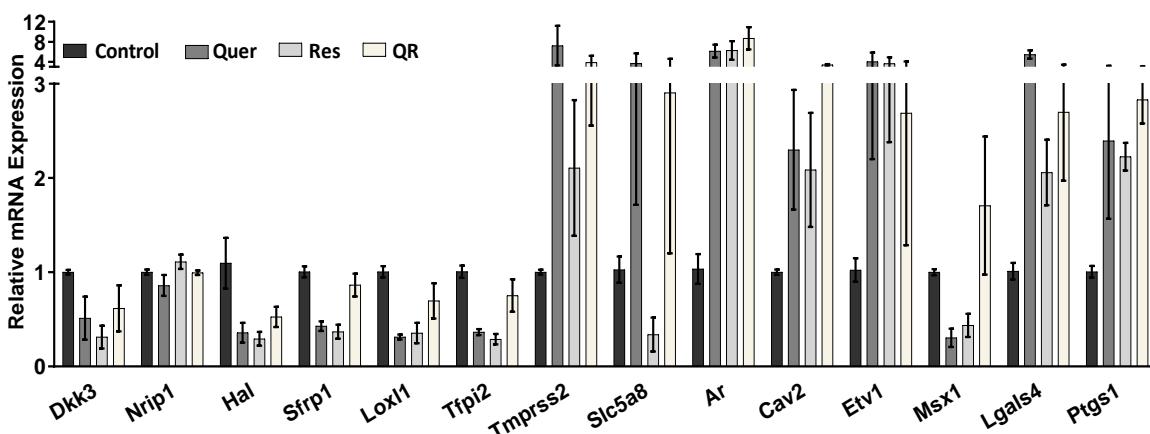


Figure S2. PCR array validation that resulted in inconclusive or non-significant outcomes. Data is presented as the mean \pm SEM of two biological pools of three animals per group ($n=6$) in technical triplicate. A one-way ANOVA with Tukey's multiple comparison test was performed using GraphPad Prism 5 Software (** p < 0.01, *** p < 0.001, **** p < 0.0001).

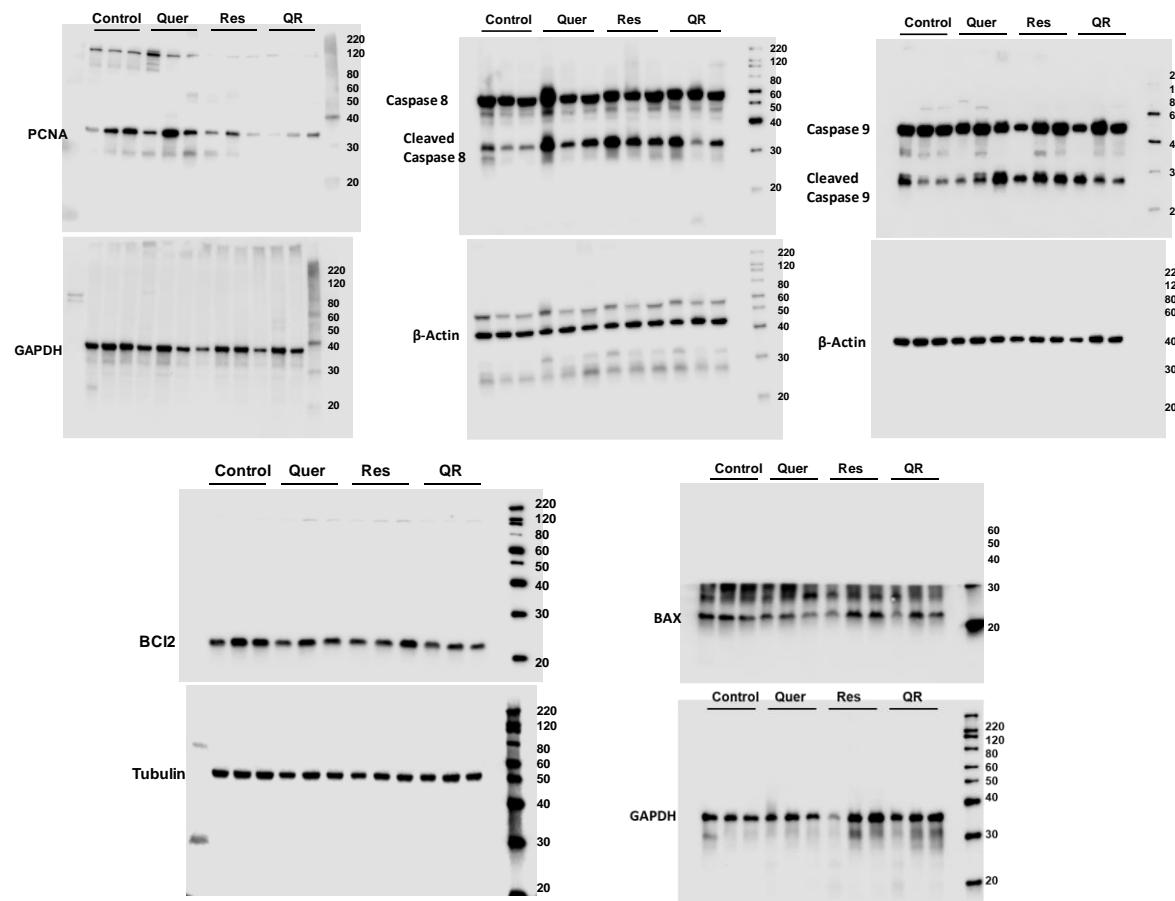
Immunoblots from Figure 3

Figure S3. Full immunoblots from images used in Figure 3. After incubating with appropriate primary and secondary antibodies, blots were exposed to chemiluminescent developer substrate and images were acquired using a Li-Cor Odyssey Fc imager. Numbers on the right indicate molecular weight markers (kDa), and lanes are labeled on the top. Quer = quercetin; Res = resveratrol, QR = quercetin+resveratrol combination treatments.

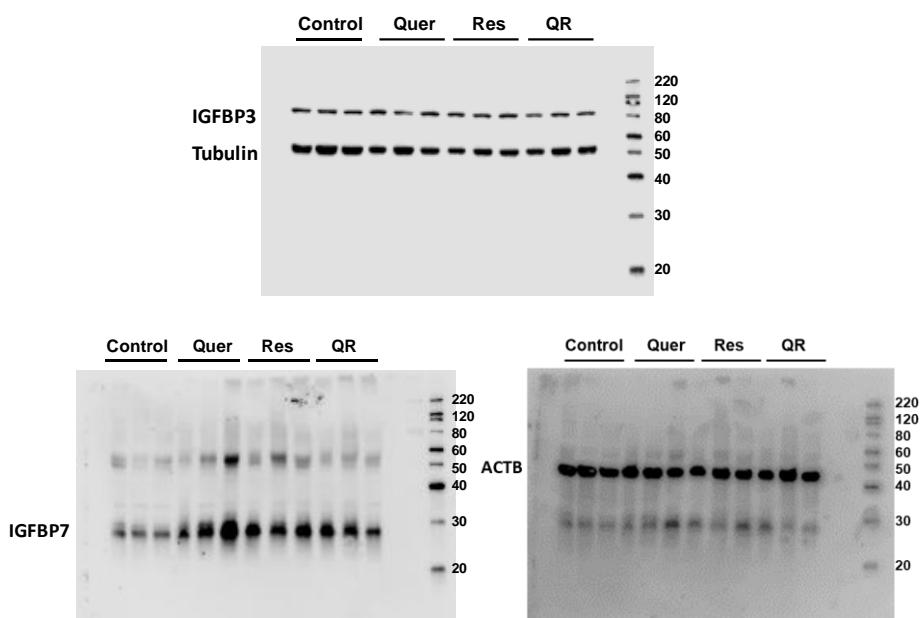
Immunoblots from Figure 5

Figure S4. Full immunoblots from images used in Figure 5. After incubating with appropriate primary and secondary antibodies, blots were exposed to chemiluminescent developer substrate and images were acquired using a Li-Cor Odyssey Fc imager. Numbers on the right indicate molecular weight markers (kDa), and lanes are labeled on the top. IGFBP3 molecular weight appeared higher than the antibody company suggested, but we tried multiple antibodies and the same band arose, so we are confident that this is the correct band. Quer = quercetin; Res = resveratrol, QR = quercetin+resveratrol combination treatments.

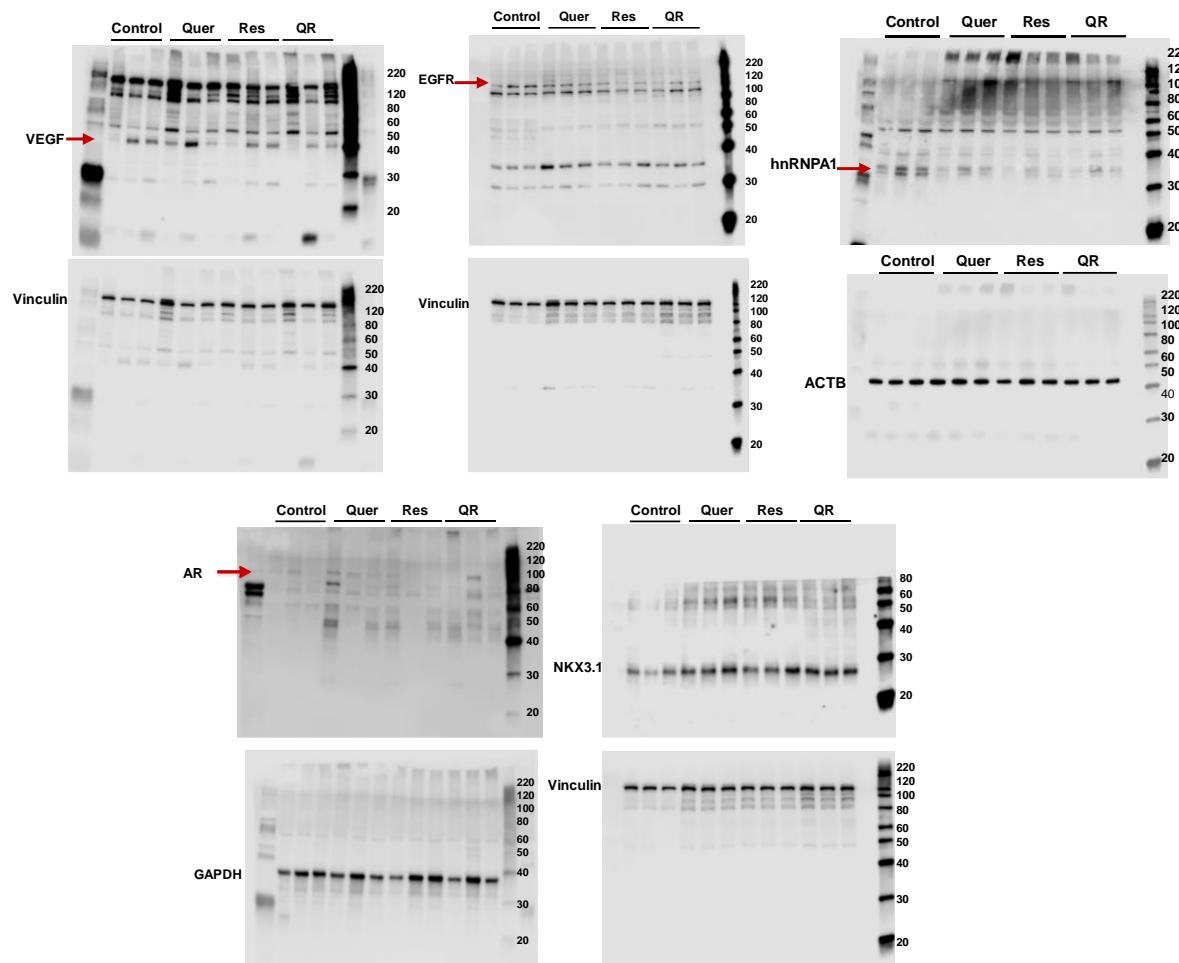
Immunoblots from Figure 6

Figure S5. Full immunoblots from images used in Figure 6. After incubating with appropriate primary and secondary antibodies, blots were exposed to chemiluminescent developer substrate and images were acquired using a Li-Cor Odyssey Fc imager. Numbers on the right indicate molecular weight markers (kDa), and lanes are labeled on the top. Quer = quercetin; Res = resveratrol, QR = quercetin+resveratrol combination treatments.

NM_013700	<i>Usp5</i>	Ubiquitin specific peptidase 5 (isopeptidase T)	1.07	0.1824	1.31	0.0055	1.2	0.0672
NM_009505	<i>Vegfa</i>	Vascular endothelial growth factor A	1.08	0.0586	1.18	0.1779	-1.33	0.0086

Table S3. Antibodies used for immunohistochemistry and immunoblotting.

Protein Name	Supplier	Catalog Number	WB Dilution	Molecular Weight (kDa)	IHC Dilution
Ki67	Cell Signaling	12202	–	–	1:500
PCNA	Invitrogen	PA5-27214	–	–	1:500
Survivin	Cell Signaling	2802	–	–	1:500
4-Hydroxynonenal	Abcam	ab46545	–	–	1:150
PCNA	Santa Cruz Biotec.	sc-56	1:500	36	–
Caspase 8	Cell Signaling	9746	1:1000	43, 18	–
Caspase 9	Cell Signaling	9505	1:1000	47, 35	–
BCL2	Santa Cruz Biotec.	sc-7382	1:500	26	–
BAX	Cell Signaling	2772	1:1000	20	–
IGFBP3	Santa Cruz Biotec.	sc-6003	1:500	40	–
IGFBP7	Santa Cruz Biotec.	sc-6064	1:2000	29	–
VEGF	Proteintech	19003-1-AP	1:500	46	–
EGFR	Proteintech	18986-1-AP	1:1000	134	–
AR	Proteintech	22089-1-AP	1:1000	99	–
NKX3.1	Proteintech	10365-1-AP	1:500	26	–
hnRNPA1	Cell Signaling	8443	1:1000	34, 40	–
GAPDH	Proteintech	10494-1-AP	1:2000	36	–
Vinculin	Cell Signaling	13901	1:1000	124	–
ACTB	Cell Signaling	3700	1:1000	45	–
TUBB	Cell Signaling	2128	1:1000	55	–



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