

**Supplementary Table 1 - KEY RESOURCES TABLE**

REAGENT or RESOURCE	SOURCE	IDENTIFIER
BV786 anti-mouse CD45	BD	RRID:AB_2716861
APC anti-mouse CD45	BD Biosciences	RRID:AB_10584326
BV711 anti-mouse CD11b	BD	RRID:AB_2716860
PE/Cy7 anti-mouse/human CD11b	BioLegend	RRID:AB_312799
APC anti-mouse F4/80	BioLegend	RRID:AB_893481
PE anti-mouse F4/80	BioLegend	RRID:AB_893486
BV421 MHC II (IA-IE)	BD	RRID:AB_2716857
APC-Cy7 anti-mouse Ly6C	BioLegend	RRID:AB_10640120
BUV395 anti-mouse Ly6G	BD	RRID:AB_2716852
BV605 anti-mouse CD11c	BD	RRID:AB_2737978
PE-Cy7 anti-mouse CD103	BioLegend	RRID:AB_2563691
BUV737 anti-mouse CD19	BD	RRID:AB_2716855
PerCP-Cy5.5 anti-mouse CD3e	BD	RRID:AB_1727463
BV650 anti-mouse CD4	BD	RRID:AB_2716859
BUV800 anti-mouse CD8a	BD	RRID:AB_2716856
Anti-rabbit Alexa Fluor 555	Fisher Scientific	RRID:AB_162543
Anti-rabbit Alexa Fluor 647	Fisher Scientific	RRID:AB_2536183
Anti-ERG antibody [EPR3864]	Abcam	RRID:AB_2630401
Anti-alpha smooth muscle Actin antibody	Sigma-Aldrich	RRID:AB_476856
Anti-Androgen Receptor antibody	Abcam	RRID:AB_11156085
<b>Bacterial and Virus Strains</b>		
-		
<b>Biological Samples</b>		
-		
<b>Chemicals, Peptides, and Recombinant Proteins</b>		
M-CSF	R&D Systems	Cat#416-ML-050
IFN- $\gamma$	R&D Systems	Cat#485-MI-100
LPS	Sigma Aldrich	Cat# L2630-10mg
IL-4	R&D Systems	Cat# 404-ML-050
Enzalutamide (MDV3100)	Selleck Chemicals	S1250-5mg
Charcoal stripped serum	Sigma-Aldrich	F6765-100ML
VECTASHIELD® Antifade Mounting Medium with DAPI	Vector Biolabs	H-1200
InVivoMAb Rat IgG1	BioXCell	BE0088
InVivoMAb anti-mouse CSF1 (clone 5A1)	BioXCell	BE0204
Dehydroepiandrosterone (DHEA) solution, 1.0 mg/mL in methanol	Sigma-Aldrich	D-063-1ML
DMEM, high glucose, HEPES	Fisher Scientific	12430054
DMEM, high glucose, HEPES, no phenol red	Thermo Fisher	21063029
Insulin from bovine pancreas	Sigma-Aldrich	6634-100MG
<b>Critical Commercial Assays</b>		
Zombie NIR™ Fixable Viability Kit	BioLegend	423105
Kappa Library quantification	Roche	Cat#KK4854
Ovation Mouse RNAseq System	Tecan	Cat#0348-32

Testosterone Parameter Assay Kit	R&D Systems	PKGE010	
Vybrant™ Alexa Fluor™ 555 Lipid Raft Labeling Kit	Fisher Scientific	Cat#V34404	
Image-iT™ LDL Uptake Kit, pHrodo™ Red	Thermo Fisher	I34360	
TaqMan™ RNA-to-CT™ 1-Step Kit	Thermo Fisher	4392938	
RNeasy isolation kit	Qiagen	Cat#74134	
Cellstripper non-enzymatic cell dissociation solution	Fisher Scientific	Cat#MT-25-056CI	
Deposited Data			
Whole tumor RNAseq		GSE180270	
Experimental Models: Cell Lines			
TRAMP-C2	ATCC	Cat# CRL-2731	
TRAMP-C3	ATCC	Cat# CRL-2732	
RAW 264.7	ATCC	Cat# TIB-71	
Experimental Models: Organisms/Strains			
Mouse: C57BL/6N (C57BL/6NHsd)	Envigo	N/A	
Mouse: C57BL/6NJ	The Jackson Laboratory	005304	
Mouse: Trp53 <sup>tm1Bm</sup> /J	The Jackson Laboratory	008462	
Mouse: Pten <sup>tm1Hwu</sup> /J	The Jackson Laboratory	006440	
Mouse: C57BL/6-Tg(Pbsn-cre/Esr1*)14Abch/J "ProbasinBAC-MerCreMer"	The Jackson Laboratory	020287	
Mouse: B6.129-Gt(ROSA)26Sor <sup>tm1(TMPRSS2/ERG)Key</sup> /J "Rosa26 <sup>ERG/ERG</sup> "	The Jackson Laboratory	024512	
Mouse: B6.Cg-Abca1 <sup>tm1Jp</sup> Abcg1 <sup>tm1Tail</sup> /J	The Jackson Laboratory	021067	
Mouse: B6.129P2-Lyz2 <sup>tm1(cre)lfo</sup> /J	The Jackson Laboratory	004781	
Oligonucleotides (Primers)			
Cd36	Mm00432403_m1	Thermo Fisher Scientific	4453320
Abcg1	Mm00437390_m1	Thermo Fisher Scientific	4453320
Ar	Mm00442688_m1	Thermo Fisher Scientific	4453320
Abca1	Mm00442646_m1	Thermo Fisher Scientific	4453320
Chga	Mm00514341_m1	Thermo Fisher Scientific	4453320
Krt18	Mm01601704_g1	Thermo Fisher Scientific	4453320
Krt8	Mm04209403_g1	Thermo Fisher Scientific	4331182
TBP	Mm01277042_m1	Thermo Fisher Scientific	4331182
Krt14	Mm00516876_m1	Thermofisher Scientific	4453320

fkbp5	Mm00487406_m1	Thermo Scientific	4331182
Scarb1	Mm00450234_m1	Thermo Fisher Scientific	4453320
Tmprss2	Mm00443687_m1	Thermo Fisher Scientific	4448892
Syp	Mm00436850_m1	Thermo Fisher Scientific	4453320
Recombinant DNA			
-			
Software and Algorithms			
R			N/A
Other			
-			