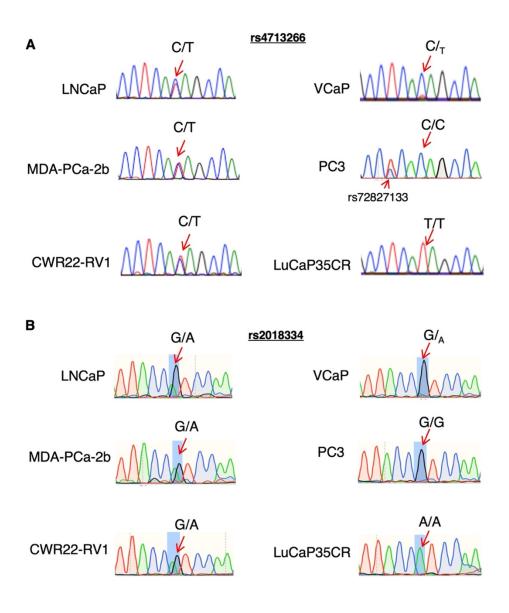
SNP ID	Position (GRCh37/hg19)	Nearby Genes
rs9623117	Chr22:40452119	TNRC6B
rs6983267	Chr8:128413305	CASC8, CCAT2
rs10896449	Chr11:68994667	LOC338694*
rs10993994	Chr10:51549496	MSMB
rs817826	Chr9:110156300	LINC01509*
rs4242382	Chr8:128517573	CASC8*
rs103294	Chr19:54797848	LILRB2, LILRA5
rs4749884	Chr10:9644800	LINC02663
rs1512268	Chr8:23526463	LOC107986930
rs10934853	Chr3:128038373	EEFSEC
rs6062509	Chr20:62362563	ZGPAT
rs7584330	Chr2:238387228	MLPH
rs11902236	Chr2:10117868	GRHL1
rs8102476	Chr19:38735613	PPP1R14A
rs12621278	Chr2:173311553	ITGA6
rs4713266	Chr6:11219030	NEDD9
rs10486567	Chr7:27976563	JAZF1
rs5759167	Chr22:43500212	BIK
rs6763931	Chr3:141102833	ZBTB38
rs1938781	Chr11:58915110	FAM111A
rs2273669	Chr6:109285189	ARMC2
rs7127900	Chr11:2233574	ASCL2*, IGF2*, TH*
rs339331	Chr6:117210052	RFX6
rs7210100	Chr17:47436749	ZNF652, LOC102724596
rs684232	Chr17:618965	VPS53
rs7611694	Chr3:113275624	SIDT1
rs6465657	Chr7:97816327	LMTK2
rs2121875	Chr5:44365545	FGF10
rs17632542	Chr19:51361757	KLK3
rs1983891	Chr6:41536427	FOXP4
rs1894292	Chr4:74349158	AFM
rs1933488	Chr6:153441079	RGS17
rs17694493	Chr9:22041998	CDKN2B-AS1
rs10875943	Chr12:49676010	TUBA1C, PRPH
rs17021918	Chr4:95562877	PDLIM5
rs11214775	Chr11:113807181	HTR3B
rs1016343	Chr8:128093297	PCAT2
.51010010	(* distance > 20kh)	

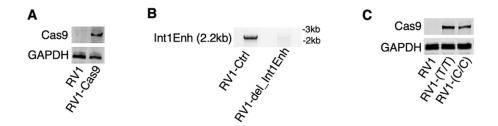
(* distance > 20kb)

Supplementary Figure 1. Candidate PCa susceptibility SNPs that are associated with men of African descent Previous analysis using GWAS database revealed a list of SNPs that are associated with PCa risk and enriched in men of African descent.



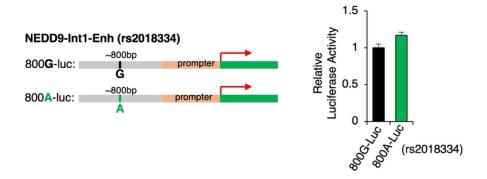
Supplementary Figure 2. Genotypes of rs4713266 and rs2018334 for PCa models

(A, B) Multiple PCa cell or xenograft lines were genotyped for rs4713266 (A) or rs2018334 (B) using Sanger sequencing on the PCR amplified genomic DNA fragments. LNCaP, MDA-PCa-2b, and CWR22-RV1 lines are heterozygous for both risk and non-risk alleles. VCaP line has gene amplification of the risk allele but may still contain a copy of the non-risk allele. PC-3 line is homozygous for risk alleles but also contains heterozygous T/C for a nonrelevant SNP rs72827133. LuCaP35CR (*TMPRSS2-ERG* positive) is homozygous for non-risk alleles.

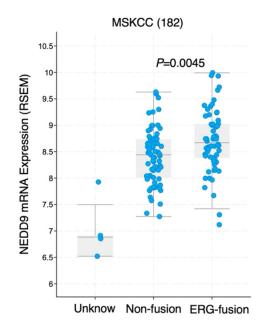


Supplementary Figure 3. CWR22-RV1 cells with CRISPR/Cas9 editing in NEDD9-Int1Enh region

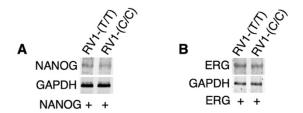
(A) Immunoblotting for Cas9 (anti-Cas9, ab210572, Abcam) in the previously established Cas9-expressing CWR22-RV1 stable cells. (B) Confirmation of Int1Enh deletion in CWR22-RV1-del_Int1Enh cells by PCR amplifying the enhancer region (~2.2kb) of genomic DNA. The primer sequences are: forward, 5'-TAAATGTCATCAGATTCCAACACAG-3' and reverse, 5'-CTACAAGTCACACCTCTCCGT-3'. (C) Immunoblotting for Cas9 in CWR22-RV1-T/T and -C/C isogenic cell lines.



Supplementary Figure 4. The nucleotide variation at rs2018334 does not significantly alter the reporter activity. DNA fragments (~800bp) containing G or A of rs2018334 were cloned into a luciferase reporter system containing a minimum promoter (800C-Luc and 800T-Luc). PC-3 cells were then transfected with 800C-Luc versus 800T-Luc and the luciferase activities were examined.



Supplementary Figure 5. *NEDD9* expression is increased in ERG fusion-positive PCa of MSKCC cohort Using provided online tools from cBioPortal, *NEDD9* expression was examined in fusion-positive versus fusion negative PCa of MSKCC cohort (Taylor PCa).



Supplementary Figure 6. Transfection of NANOG and ERG in CWR222-RV1 isogenic cell lines (**A**, **B**) Immunoblotting for NANOG (A) or ERG (B) in the CWR22-RV1 isogenic cell lines transfected by NANOG or ERG expressing plasmids.