

Reporting Summary

Nature Research wishes to improve the reproducibility of the work that we publish. This form provides structure for consistency and transparency in reporting. For further information on Nature Research policies, see our [Editorial Policies](#) and the [Editorial Policy Checklist](#).

Statistics

For all statistical analyses, confirm that the following items are present in the figure legend, table legend, main text, or Methods section.

n/a Confirmed

- The exact sample size (n) for each experimental group/condition, given as a discrete number and unit of measurement
- A statement on whether measurements were taken from distinct samples or whether the same sample was measured repeatedly
- The statistical test(s) used AND whether they are one- or two-sided
Only common tests should be described solely by name; describe more complex techniques in the Methods section.
- A description of all covariates tested
- A description of any assumptions or corrections, such as tests of normality and adjustment for multiple comparisons
- A full description of the statistical parameters including central tendency (e.g. means) or other basic estimates (e.g. regression coefficient) AND variation (e.g. standard deviation) or associated estimates of uncertainty (e.g. confidence intervals)
- For null hypothesis testing, the test statistic (e.g. F , t , r) with confidence intervals, effect sizes, degrees of freedom and P value noted
Give P values as exact values whenever suitable.
- For Bayesian analysis, information on the choice of priors and Markov chain Monte Carlo settings
- For hierarchical and complex designs, identification of the appropriate level for tests and full reporting of outcomes
- Estimates of effect sizes (e.g. Cohen's d , Pearson's r), indicating how they were calculated

Our web collection on [statistics for biologists](#) contains articles on many of the points above.

Software and code

Policy information about [availability of computer code](#)

Data collection No software was used for data collection.

Data analysis All custom codes used for data analyses are freely available from the following public repositories:

<https://github.com/mcieslik-mctp/papy>
<https://github.com/mcieslik-mctp/hpseq>
<https://github.com/mcieslik-mctp/bootstrap-rnascapc>
<https://github.com/mcieslik-mctp/codac>
<https://github.com/mcieslik-mctp/crisp>
<https://github.com/mcieslik-mctp/>
<https://github.com/mctp/>
https://github.com/dovetail-genomics/dovetail_tools

Computational tools used:

GraphPad Prism 9 and in-built statistical tools
 SAMtools (version 1.9 or 1.13)
 PICARD Mark Duplicates (version 2.9.0)
 HOMER (version v.4.10)
 MACS2 (version 2.1.1.20160309)
 bcl2fastq conversion software (v2.20)
 BWA (version 0.7.17-r1198-dirty)
 Pairtools (version 0.3.0)
 EdgeR (version 3.34.1)
 HTSeq-count (version 0.13.5)

deepTools (version 3.3.1)
 ChipPeakAnno (version 3.0.0)
 ChipSeeker (version 1.29.1)
 R (version 3.6.0)
 Cooler (version 0.8.11)
 juicertools(version 1.22.01)
 HiCExplorer (version 3.7)

For manuscripts utilizing custom algorithms or software that are central to the research but not yet described in published literature, software must be made available to editors and reviewers. We strongly encourage code deposition in a community repository (e.g. GitHub). See the Nature Research [guidelines for submitting code & software](#) for further information.

Data

Policy information about [availability of data](#)

All manuscripts must include a [data availability statement](#). This statement should provide the following information, where applicable:

- Accession codes, unique identifiers, or web links for publicly available datasets
- A list of figures that have associated raw data
- A description of any restrictions on data availability

All raw data for the graphs, immunoblots, and gel electrophoresis figures are included in the Source Data or Supplementary Information. All materials are available from the authors upon reasonable request. All the raw next-generation sequencing, ATAC, ChIP, RNA, and HiChIP-seq data generated in this study have been deposited in the Gene Expression Omnibus (GEO) repository at NCBI (accession code GSE171592).

Field-specific reporting

Please select the one below that is the best fit for your research. If you are not sure, read the appropriate sections before making your selection.

Life sciences Behavioural & social sciences Ecological, evolutionary & environmental sciences

For a reference copy of the document with all sections, see [nature.com/documents/nr-reporting-summary-flat.pdf](https://www.nature.com/documents/nr-reporting-summary-flat.pdf)

Life sciences study design

All studies must disclose on these points even when the disclosure is negative.

| | |
|-----------------|--|
| Sample size | Sample sizes were empirically and statistically determined. For animal experiments, n=10-20 tumors were used for the pilot and efficacy studies. Using 20 tumors per treatment group, the statistical power to detect a 50% decrease in the mean tumor volume or metastatic burden in the treatment group is estimated to be 92.3% if the coefficient of variation (CV) is 40%. All in vitro experiments were performed with at least 3 technical replicates across two independent experiments. All samples sizes for various assays are listed in the Methods section or the figure legends. |
| Data exclusions | No data was excluded from the published publicly-available patient sequencing studies. For biological experiments, no data exclusions were made. |
| Replication | For all experiments, there are at least two independent biological repeats and multiple technical repeats in each. In all instances, all attempts at replicating the experiments produced similar results. |
| Randomization | For animal studies, mice were randomly assigned to treatment groups. For all other in vitro experiments, we used a common cell suspension to plate for both control and treatment groups. |
| Blinding | All histo-pathological evaluations of tissues and IHC/staining-based scoring for drug toxicity studies were carried out in a blinded manner by two independent pathologists. For all other experiments, the analyses did not require blinding as data quantification was carried out using instruments and automated workflows with no manual steps. |

Reporting for specific materials, systems and methods

We require information from authors about some types of materials, experimental systems and methods used in many studies. Here, indicate whether each material, system or method listed is relevant to your study. If you are not sure if a list item applies to your research, read the appropriate section before selecting a response.

Materials & experimental systems

Methods

| n/a | Involved in the study |
|-------------------------------------|---|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> Antibodies |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> Eukaryotic cell lines |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> Palaeontology and archaeology |
| <input type="checkbox"/> | <input checked="" type="checkbox"/> Animals and other organisms |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> Human research participants |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> Clinical data |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> Dual use research of concern |

| n/a | Involved in the study |
|-------------------------------------|---|
| <input type="checkbox"/> | <input checked="" type="checkbox"/> ChIP-seq |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> Flow cytometry |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> MRI-based neuroimaging |

Antibodies

Antibodies used

Target antigen; Vendor; Catalog number; Lot number; Application; Note
 BAF155 Cell Signaling Technology 11956S, Clone:D7F8S, Lot: 4, Western Blot, Co-IP 1:1000
 SMARCA2/BRM Bethyl laboratories A301-016A, Lot: 1, Western Blot 1:1000
 SMARCA4/BRG1 Cell Signaling Technoly 52251S, Lot: 1, Western Blot 1:1000
 PBRM1 Bethyl laboratories A301-591A, Lot: 3, Western Blot 1:1000
 BRD4 Cell Signaling Technology 13440S, Clone: E2A7X Western Blot 1:1000
 BRD7 Proteintech 51009-2-AP Western Blot 1:1000
 BRD9 Thermo Scientific PA5-113488, Lot: WE3273112, Western Blot 1:1000
 Vinculin Millipore Sigma V9131 Western Blot 1:5000
 VHL Thermo Fisher Scientific PA527322, Lot: UH2825110A, Western Blot 1:1000
 AR Millipore Sigma 06-680, Lot: 3256650, Western Blot, Co-IP 1:1000
 ERG Abcam ab92513 Western Blot, Co-IP 1:1000
 FOXA1 Thermo Fisher Scientific PA5-27157 Western Blot, Co-IP 1:1000
 c-Myc Cell Signaling Technology 5605S, Clone: D84C12, Western Blot 1:1000
 PSA DAKO A0562, Lot: 00093790, Western Blot 1:4000
 YY1 Diagenode C15410345 Western Blot 1:1000
 MED1 Bethyl laboratories A300-793A Western Blot 1:1000
 H3K27Me3 Diagenode C15410069 Western Blot 1:1000
 H3K27Ac Cell Signaling Technology 8173, Clone: D5E4, Western Blot 1:1000
 H3K4me3 Cell Signaling Technology 9751, Lot: 14, Clone: C42D8 Western Blot 1:1000
 H3K4Me1 Abcam ab8895 Western Blot 1:1000
 Cleaved PARP (Asp214) Cell Signaling Technology 9541, Clone: Asp214, Lot: 13, Western Blot 1:1000
 SMARCA2/BRM Millipore sigma HPA029981 IHC 1:100
 SMARCA4/BRG1 Abcam ab108318 IHC 1:100
 AR Millipore Sigma 06-680 IHC 1:100
 FOXA1 Thermo Fisher Scientific PA5-27157, Lot: VFS004672A, IHC 1:1000
 ERG Cell Signaling Technology 97249S, Clone: A7L1G, Lot: 1, IHC 1:500, ChIP-seq 10 mg/7-8M cells
 AR Millipore/Sigma 06-680 ChIP-seq 10 mg/7-8M cells
 FOXA1 Thermo Fisher Scientific PA5-27157 ChIP-seq 10 mg/7-8M cells
 H3K27Ac Abcam ab4729 ChIP-seq 10 mg/10M cells
 CTCF Cell Signaling Technology 3418, Clone: D31H2, Lot: 4, HiChIP-seq 1.14 mg per IP
 H3K4me3 Cell Signaling Technology 9751, Clone:C42D8, Lot: 14, HiChIP-seq 3.4 mg per IP
 H3K27Ac Cell Signaling Technology 8173, Clone: D5E4, HiChIP-seq 0.4 mg per IP

Validation

All antibodies used in this study are from reputed commercial vendors and have been validated by the vendors (see website). QC data is directly available from all the vendor listed above and these antibodies have been commonly used in other publications. These details are included in the vendor web-links pasted below:
 BAF155, <https://www.cellsignal.com/products/primary-antibodies/smarcc1-baf155-d7f8s-rabbit-mab/11956>
 SMARCA2/BRM, <https://www.bethyl.com/product/A301-016A/SMARCA2+BRM+Antibody>
 SMARCA2/BRG, <https://www.sigmaaldrich.com/US/en/product/sigma/hpa029981>
 SMARCA4/BRG1, <https://www.cellsignal.com/products/primary-antibodies/brg1-e9o6e-mouse-mab/52251>
 SMARCA4/BRG1, <https://www.abcam.com/brg1-antibody-epr3912-ab108318.html>
 PBRM1, <https://www.bethyl.com/product/A301-591A/PBRM1+Antibody>
 BRD4, <https://www.cellsignal.com/products/primary-antibodies/brd4-e2a7x-rabbit-mab/13440>
 BRD7, <https://www.ptgcn.com/products/BRD7-Antibody-51009-2-AP.htm>
 BRD9, <https://www.thermofisher.com/antibody/product/BRD9-Antibody-Polyclonal/PA5-113488>
 Vinculin, <https://www.sigmaaldrich.com/US/en/product/sigma/v9131>
 VHL, <https://www.thermofisher.com/antibody/product/VHL-Antibody-Polyclonal/PA5-27322>
 AR, https://www.emdmillipore.com/US/en/product/Anti-Androgen-Receptor-Antibody,MM_NF-06-680
 ERG, <https://www.abcam.com/erg-antibody-epr3864-ab92513.html>
 ERG, <https://www.cellsignal.com/products/primary-antibodies/erg-a7l1g-rabbit-mab/97249>
 FOXA1, <https://www.thermofisher.com/antibody/product/FOXA1-Antibody-Polyclonal/PA5-27157>
 c-Myc, <https://www.cellsignal.com/products/primary-antibodies/c-myc-d84c12-rabbit-mab/5605>
 YY1, <https://www.diagenode.com/en/p/yy1-polyclonal-antibody-50-ug>
 MED1, <https://www.bethyl.com/product/A300-793A/MED1+Antibody>
 H3K27Me3, <https://www.diagenode.com/en/p/h3k27me3-polyclonal-antibody-classic-50-mg-34-ml>
 H3K27Ac, <https://www.cellsignal.com/products/primary-antibodies/acetyl-histone-h3-lys27-d5e4-xp-rabbit-mab/8173>

H3K27Ac, <https://www.abcam.com/histone-h3-acetyl-k27-antibody-chip-grade-ab4729.html>
 H3K4Me1, https://www.abcam.com/Histone-H3-mono-methyl-K4-antibody-ChIP-Grade-ab8895.html?gclid=CjwKCAjwzt6LBhBeEiwAbPGOGUFEy8GIMv4WYw4MgVMXASeZxmacJ3JbieaWOcgXasSovoW1pm9ypRoCEWMQAvD_BwE
 H3K4Me3, <https://www.cellsignal.com/products/primary-antibodies/tri-methyl-histone-h3-lys4-c42d8-rabbit-mab/9751>
 Cleaved PARP, <https://www.cellsignal.com/products/primary-antibodies/cleaved-parp-asp214-antibody-human-specific/9541>
 CTCF, <https://www.cellsignal.com/products/primary-antibodies/ctcf-d31h2-xp-rabbit-mab/3418>

Eukaryotic cell lines

Policy information about [cell lines](#)

| | |
|---|--|
| Cell line source(s) | Most cell lines were originally obtained from ATCC, DSMZ, ECACC, or internal stock. C4-2B cells were generously provided by Evan Keller, Ph.D. at the University of Michigan (who originally purchased them from ATCC), CWR-R1 cells, and a series of enzalutamide-resistant prostate cancer cell lines (LNCaP_Parental, LNCaP_EnzR, CWR-R1_Parental, CWR-R1_EnzR, VCaP_Parental and VCaP_EnzR) were generated in the lab of and generously provided by Donald Vander Griend, Ph.D. at the University of Illinois at Chicago. HeLa cells were purchased from ATCC. All the cells were genotyped to confirm their identity at the University of Michigan Sequencing Core and tested routinely for Mycoplasma contamination. Additionally, all the cell lines were genotyped every two months to confirm their identity. LNCaP, 22RV-1, CWR-R1, PC-3, and DU145 were grown in Gibco RPMI-1640 + 10% FBS (ThermoFisher, Waltham, MA). VCaP was grown in Gibco DMEM + 10% FBS (ThermoFisher, Waltham, MA). |
| Authentication | All cell lines were biweekly tested to be free of mycoplasma contamination and genotyped every month at the University of Michigan Sequencing Core using Profiler Plus (Applied Biosystems) and compared with corresponding short tandem repeat (STR) profiles in the ATCC database to authenticate their identity in culture between passages and experiments. In particular, we ensured that the STR profile of HeLa cells were always >90% similar to the original, early passage cells. Also, HeLa cells were cultured in a separate hood to avoid any cross-contamination. |
| Mycoplasma contamination | All cells were biweekly tested for mycoplasma contamination using the MycoAlert PLUS Mycoplasma Detection Kit (Lonza) and were found to be continually negative. More details are included in the Methods section |
| Commonly misidentified lines (See ICLAC register) | None |

Animals and other organisms

Policy information about [studies involving animals](#); [ARRIVE guidelines](#) recommended for reporting animal research

| | |
|-------------------------|--|
| Laboratory animals | Efficacy studies: 4-6 week old male CB17 severe combined immunodeficiency (SCID) mice were procured from the University of Michigan breeding colony. Pharmacokinetics study: 9-11 week old CD-1 male mice were used. All mice were maintained under the conditions of pathogen-free, 12 hours light/12 hours dark cycle, temperatures of 18-23°C, and 40-60% humidity. |
| Wild animals | No wild animals were used in the study. |
| Field-collected samples | No field collected samples were used in the study. |
| Ethics oversight | The Institutional Animal Care & Use Committee (IACUC) ensures that the highest animal welfare standards are maintained along with the conduct of accurate, valid scientific research through the supervision, coordination, training, guidance, and review of every project proposed to include the use of vertebrate animals at the University of Michigan. |

Note that full information on the approval of the study protocol must also be provided in the manuscript.

ChIP-seq

Data deposition

- Confirm that both raw and final processed data have been deposited in a public database such as [GEO](#).
- Confirm that you have deposited or provided access to graph files (e.g. BED files) for the called peaks.

| | |
|--|---|
| Data access links <i>May remain private before publication.</i> | We have deposited the raw as well as processed ATAC, RNA, ChIP and HiChIP sequencing files to the GEO superseries repository; accession #: GSE171592. |
| Files in database submission | <p>GSE171592 Targeting SWI/SNF ATPases in enhancer-addicted prostate cancer Oct 28, 2021</p> <hr/> <p>GSE171584 Targeting SWI/SNF ATPases in enhancer-addicted prostate cancer [ATAC-seq] Oct 28, 2021 approved None GSM5227748 VCaP_DMSO_R1_8h (ATAC-seq) Oct 28, 2021 approved BED GSM5227749 VCaP_DMSO_R2_8h (ATAC-seq) Oct 28, 2021 approved BED GSM5227750 VCaP_DMSO_R1_24h (ATAC-seq) Oct 28, 2021 approved BED GSM5227751 VCaP_DMSO_R2_24h (ATAC-seq) Oct 28, 2021 approved BED GSM5227752 VCaP_AU_R1_4h (ATAC-seq) Oct 28, 2021 approved BED GSM5227753 VCaP_AU_R2_4h (ATAC-seq) Oct 28, 2021 approved BED GSM5227754 VCaP_AU_R1_8h (ATAC-seq) Oct 28, 2021 approved BED</p> |

| | | | | |
|------------|---|--------------|----------|------|
| GSM5227755 | VCaP_AU_R2_8h (ATAC-seq) | Oct 28, 2021 | approved | BED |
| GSM5227756 | VCaP_AU_R1_12h (ATAC-seq) | Oct 28, 2021 | approved | BED |
| GSM5227757 | VCaP_AU_R2_12h (ATAC-seq) | Oct 28, 2021 | approved | BED |
| GSM5227758 | VCaP_AU_R1_24h (ATAC-seq) | Oct 28, 2021 | approved | BED |
| GSM5227759 | VCaP_AU_R2_24h (ATAC-seq) | Oct 28, 2021 | approved | BED |
| GSM5227760 | VCaP_ZBC260_R1_8h (ATAC-seq) | Oct 28, 2021 | approved | BED |
| GSM5227761 | VCaP_ZBC260_R2_8h (ATAC-seq) | Oct 28, 2021 | approved | BED |
| GSM5227762 | VCaP_ZBC260_R1_24h (ATAC-seq) | Oct 28, 2021 | approved | BED |
| GSM5227763 | VCaP_ZBC260_R2_24h (ATAC-seq) | Oct 28, 2021 | approved | BED |
| GSM5227764 | LNCaP_DMSO_R1_24h (ATAC-seq) | Oct 28, 2021 | approved | BED |
| GSM5227765 | LNCaP_DMSO_R2_24h (ATAC-seq) | Oct 28, 2021 | approved | BED |
| GSM5227766 | LNCaP_AU_R1_12h (ATAC-seq) | Oct 28, 2021 | approved | BED |
| GSM5227767 | LNCaP_AU_R2_12h (ATAC-seq) | Oct 28, 2021 | approved | BED |
| GSM5227768 | LNCaP_AU_R1_24h (ATAC-seq) | Oct 28, 2021 | approved | BED |
| GSM5227769 | LNCaP_AU_R2_24h (ATAC-seq) | Oct 28, 2021 | approved | BED |
| GSM5227770 | LNCaP_sgNC+shNC_R1_72h (ATAC-seq) | Oct 28, 2021 | approved | BED |
| GSM5227771 | LNCaP_sgNC+shNC_R2_72h (ATAC-seq) | Oct 28, 2021 | approved | BED |
| GSM5227772 | LNCaP_sgSMARCA2_R1 (ATAC-seq) | Oct 28, 2021 | approved | BED |
| GSM5227773 | LNCaP_sgSMARCA2_R2 (ATAC-seq) | Oct 28, 2021 | approved | BED |
| GSM5227774 | LNCaP_sgSMARCA4_R1 (ATAC-seq) | Oct 28, 2021 | approved | BED |
| GSM5227775 | LNCaP_sgSMARCA4_R2 (ATAC-seq) | Oct 28, 2021 | approved | BED |
| GSM5227776 | LNCaP_sgSMARCA2+shSMARCA4_R1_72h (ATAC-seq) | Oct 28, 2021 | approved | BED |
| GSM5227777 | LNCaP_sgSMARCA2+shSMARCA4_R2_72h (ATAC-seq) | Oct 28, 2021 | approved | BED |
| GSM5655507 | AU-CBH-15330 @1uM for 0.5h-R1 | Oct 28, 2021 | approved | BED |
| GSM5655508 | AU-CBH-15330 @1uM for 0.5h-R2 | Oct 28, 2021 | approved | BED |
| GSM5655509 | AU-CBH-15330 @1uM for 1h-R1 | Oct 28, 2021 | approved | BED |
| GSM5655510 | AU-CBH-15330 @1uM for 1h-R2 | Oct 28, 2021 | approved | BED |
| ----- | | | | |
| GSE171589 | Targeting SWI/SNF ATPases in enhancer-addicted prostate cancer [ChIP-seq] | Oct 28, 2021 | approved | None |
| GSM5228982 | VCaP_DMSO_6h_AR (ChIP-seq) | Oct 28, 2021 | approved | BED |
| GSM5228983 | VCaP_AU_6h_AR (ChIP-seq) | Oct 28, 2021 | approved | BED |
| GSM5228984 | VCaP_DMSO_6h_FOXA1 (ChIP-seq) | Oct 28, 2021 | approved | BED |
| GSM5228985 | VCaP_AU_6h_FOXA1 (ChIP-seq) | Oct 28, 2021 | approved | BED |
| GSM5228986 | VCaP_DMSO_6h_ERG (ChIP-seq) | Oct 28, 2021 | approved | BED |
| GSM5228987 | VCaP_AU_6h_ERG (ChIP-seq) | Oct 28, 2021 | approved | BED |
| GSM5228988 | VCaP_DMSO_6h_CTCF (ChIP-seq) | Oct 28, 2021 | approved | BED |
| GSM5228989 | VCaP_AU_6h_CTCF (ChIP-seq) | Oct 28, 2021 | approved | BED |
| GSM5228990 | VCaP_DMSO_24h_H3K27Ac (ChIP-seq) | Oct 28, 2021 | approved | BED |
| GSM5228991 | VCaP_AU_24h_H3K27Ac (ChIP-seq) | Oct 28, 2021 | approved | BED |
| GSM5228992 | LNCaP_DMSO_6h_AR (ChIP-seq) | Oct 28, 2021 | approved | BED |
| GSM5228993 | LNCaP_AU_6h_AR (ChIP-seq) | Oct 28, 2021 | approved | BED |
| GSM5228994 | LNCaP_DMSO_6h_FOXA1 (ChIP-seq) | Oct 28, 2021 | approved | BED |
| GSM5228995 | LNCaP_AU_6h_FOXA1 (ChIP-seq) | Oct 28, 2021 | approved | BED |
| GSM5228996 | LNCaP_DMSO_6h_CTCF (ChIP-seq) | Oct 28, 2021 | approved | BED |
| GSM5228997 | LNCaP_AU_6h_CTCF (ChIP-seq) | Oct 28, 2021 | approved | BED |
| GSM5228998 | LNCaP_DMSO_24h_H3K27Ac (ChIP-seq) | Oct 28, 2021 | approved | BED |
| GSM5228999 | LNCaP_AU_24h_H3K27Ac (ChIP-seq) | Oct 28, 2021 | approved | BED |
| GSM5655511 | VCaP_AU1h_AR_Milli | Oct 28, 2021 | approved | BED |
| GSM5655512 | VCaP_AU1h_FOXA1-TFS | Oct 28, 2021 | approved | BED |
| GSM5655513 | VCaP_AU1h_H3K27Ac_abcam | Oct 28, 2021 | approved | BED |
| GSM5655514 | VCaP_AU2h_AR_Milli | Oct 28, 2021 | approved | BED |
| GSM5655515 | VCaP_AU2h_FOXA1-TFS | Oct 28, 2021 | approved | BED |
| GSM5655516 | VCaP_AU2h_H3K27Ac_abcam | Oct 28, 2021 | approved | BED |
| GSM5655517 | VCaP_AU4h_AR_Milli | Oct 28, 2021 | approved | BED |
| GSM5655518 | VCaP_AU4h_FOXA1-TFS | Oct 28, 2021 | approved | BED |
| GSM5655519 | VCaP_AU4h_H3K27Ac_abcam | Oct 28, 2021 | approved | BED |
| ----- | | | | |
| GSE171523 | Targeting SWI/SNF ATPases in enhancer-addicted prostate cancer [RNA-seq] | Oct 28, 2021 | approved | None |
| GSM5226548 | VCaP_DMSO_R1_24h (RNA-seq) | Oct 28, 2021 | approved | TXT |
| GSM5226549 | VCaP_DMSO_R2_24h (RNA-seq) | Oct 28, 2021 | approved | TXT |
| GSM5226550 | VCaP_AU_R1_4h (RNA-seq) | Oct 28, 2021 | approved | TXT |
| GSM5226551 | VCaP_AU_R2_4h (RNA-seq) | Oct 28, 2021 | approved | TXT |
| GSM5226552 | VCaP_AU_R1_8h (RNA-seq) | Oct 28, 2021 | approved | TXT |
| GSM5226553 | VCaP_AU_R2_8h (RNA-seq) | Oct 28, 2021 | approved | TXT |
| GSM5226554 | VCaP_AU_R1_12h (RNA-seq) | Oct 28, 2021 | approved | TXT |
| GSM5226555 | VCaP_AU_R2_12h (RNA-seq) | Oct 28, 2021 | approved | TXT |
| GSM5226556 | VCaP_AU_R1_24h (RNA-seq) | Oct 28, 2021 | approved | TXT |
| GSM5226557 | VCaP_AU_R2_24h (RNA-seq) | Oct 28, 2021 | approved | TXT |
| GSM5226558 | VCaP_ZBC260_R1_8h (RNA-seq) | Oct 28, 2021 | approved | TXT |
| GSM5226559 | VCaP_ZBC260_R2_8h (RNA-seq) | Oct 28, 2021 | approved | TXT |
| GSM5226560 | VCaP_ZBC260_R1_24h (RNA-seq) | Oct 28, 2021 | approved | TXT |
| GSM5226561 | VCaP_ZBC260_R2_24h (RNA-seq) | Oct 28, 2021 | approved | TXT |
| GSM5226562 | LNCaP_DMSO_R1_24h (RNA-seq) | Oct 28, 2021 | approved | TXT |
| GSM5226563 | LNCaP_DMSO_R2_24h (RNA-seq) | Oct 28, 2021 | approved | TXT |
| GSM5226564 | LNCaP_AU_R1_12h (RNA-seq) | Oct 28, 2021 | approved | TXT |
| GSM5226565 | LNCaP_AU_R2_12h (RNA-seq) | Oct 28, 2021 | approved | TXT |

GSM5226566 LNCaP_AU_R1_24h (RNA-seq) Oct 28, 2021 approved TXT
 GSM5226567 LNCaP_AU_R2_24h (RNA-seq) Oct 28, 2021 approved TXT
 GSM5226568 LAPC4_DMSO_R1_24h (RNA-seq) Oct 28, 2021 approved TXT
 GSM5226569 LAPC4_DMSO_R2_24h (RNA-seq) Oct 28, 2021 approved TXT
 GSM5226570 LAPC4_AU_R1_24h_0.1uM (RNA-seq) Oct 28, 2021 approved TXT
 GSM5226571 LAPC4_AU_R2_24h_0.1uM (RNA-seq) Oct 28, 2021 approved TXT
 GSM5226572 LAPC4_AU_R1_24h_1uM (RNA-seq) Oct 28, 2021 approved TXT
 GSM5226573 LAPC4_AU_R2_24h_1uM (RNA-seq) Oct 28, 2021 approved TXT
 GSM5655526 VCaP_DMSO_2h_1 Oct 28, 2021 approved TXT
 GSM5655527 VCaP_DMSO_2h_2 Oct 28, 2021 approved TXT
 GSM5655528 VCaP_AU-15330_1 uM_0.5h_1 Oct 28, 2021 approved TXT
 GSM5655529 VCaP_AU-15330_1 uM_0.5h_2 Oct 28, 2021 approved TXT
 GSM5655530 VCaP_AU-15330_1 uM_1h_1 Oct 28, 2021 approved TXT
 GSM5655531 VCaP_AU-15330_1 uM_1h_2 Oct 28, 2021 approved TXT
 GSM5655532 VCaP_AU-15330_1 uM_2h_1 Oct 28, 2021 approved TXT
 GSM5655533 VCaP_AU-15330_1 uM_2h_2 Oct 28, 2021 approved TXT

GSE171591 Targeting enhancer addiction in prostate cancer by impeding chromatin accessibility [HiChIP-seq] Oct 28, 2021 approved None
 GSM5229035 VCaP_DMSO_4h_H3K4me3 (HiChIP-seq) Oct 28, 2021 approved HIC
 GSM5229036 VCaP_AU_4h_H3K4me4 (HiChIP-seq) Oct 28, 2021 approved HIC
 GSM5229037 VCaP_DMSO_4h_H3K27Ac (HiChIP-seq) Oct 28, 2021 approved HIC
 GSM5229038 VCaP_AU_4h_H3K27Ac (HiChIP-seq) Oct 28, 2021 approved HIC
 GSM5229039 VCaP_DMSO_4h_CTCF (HiChIP-seq) Oct 28, 2021 approved HIC
 GSM5229040 VCaP_AU_4h_CTCF (HiChIP-seq) Oct 28, 2021 approved HIC

Genome browser session
(e.g. [UCSC](#))

No longer applicable

Methodology

Replicates

Multiple biological as well as technical replicates are included.

Sequencing depth

ATACseq: Sequenced to 65-70M total reads, paired-end mode, 125bp read lengths. Over 97% of uniquely mapped reads.
 ChIPseq: Sequenced to 50-70M total reads, paired-end mode, 125bp read lengths. Over 97% of uniquely mapped reads.
 RNAseq: Sequenced to 25-30M total reads, paired-end mode, 125bp read lengths. Over 97% of uniquely mapped reads.
 HiChIPseq: Sequenced to 200-225M total reads, paired-end mode, 125bp read lengths. Over 95% of uniquely mapped reads.

Antibodies

See Supplementary Table 2.

Peak calling parameters

MACS2 (Version 2.1.1.20160309) callpeak was used for performing peak calling with the following option: 'macs2 callpeak--call-summits--verbose 3 -g hs -f BAM -n OUT--qvalue 0.05'. For H3K27ac data, the broad option was used.

Data quality

FastQC was used to quality check the raw sequencing data using standard metrics and default thresholds.

Software

Using deepTools (version 3.3.1) bamCoverage, a coverage file (bigWig format) for each sample was created. The coverage was calculated as the number of reads per bin, where bins are short consecutive counting windows. While creating the coverage file, the data was normalized with respect to each library size. ChIP peak profile plots and read-density heat maps were generated using deepTools, and cistrome overlap analyses were carried out using the ChIPpeakAnno (version 3.0.0) or ChIPseeker (version 1.29.1) packages in R (version 3.6.0).