

Document S2: Data S36-S38

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|---------------|-------------|----------|------------------|---------|
| Laboratory | ENCODE 3 | ENCODE 4 | GTE _x | GENCODE |
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| Gingeras | X | | | |
| Bernstein | X | X | | |
| Guigó | X | X | X | X |
| Schatz | | | | |
| Milosavljevic | | | | |
| Choudhary | | | | X |
| Snyder | X | X | X | |
| Myers | X | X | | |
| Gillis | | | | |
| Ren | X | X | | |
| Mortazavi | X | X | | |
| Wold | X | X | | |
| Dobin | | X | | |
| Levine | | | | |
| Weng | X | X | | |
| Noble | X | X | | |
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| Performed experiments and data deposition | J.D., C.D., C.A.D., A.S., L.H.S., C.Z., C.B.E., N.S., E.G., S.B., G.B.C., N.P.F., V.H., R.I., N.N., C.D., Joe.R., J.A., M.S., M.M., S.C., D.U.G., Y.Q., G.B.G., B.W., S.B.C., I.G., B.C.H., B.R.L., K.Z.L., C.A.S., J.S.S. and F.Y.T. |
| Supervised the project | K.A., J.M.C., E.M.M., W.S.N., Z.W., M.E.L., A.D., B.W., A.M., B.R., J.G., R.M.M., M.P.S., J.C., A.M., M.C.S., B.E.B., R.G., T.R.G. and M.G. |
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| Exhibit | Lead Contributors |
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| Figure 2 | 2A: Jason Liu, Kun Xiong, Christopher JF Cameron, Yunzhe Jiang 2B: Jason Liu, Kun Xiong, Yunzhe Jiang, Keyang Yu 2C: Jason Liu, Kun Xiong, Gamze Gursoy 2D: Timur Galeev, Jason Liu, Kun Xiong 2EF: Jason Liu, Kun Xiong |
| Figure 3 | 3A: Yucheng T. Yang, Jiahao Gao, Jason Liu 3B: Yucheng T. Yang, Jason Liu 3C: Yucheng T. Yang, Jason Liu, Yunzhe Jiang 3D: Yucheng T. Yang, Timur Galeev, Jason Liu 3E: Jason Liu 3F: Timur Galeev, Jason Liu |
| Figure 4 | 4A: Jason Liu 4B: Yucheng T. Yang, Jason Liu 4C: Yucheng T. Yang, Jason Liu, Ana Berthel 4D: Timur Galeev, Jason Liu |
| Figure 5 | 5A-G: Beatrice Borsari |
| Figure 6 | 6AB: Jiahao Gao 6C: Jiahao Gao, Jun Wang |
| Figure 7 | 7A-F: Tianxiao Li |
| Supplemental Figures | |
| Figure S1 | S1A: Joel Rozowsky, Jiahao Gao S1B: Michael Schatz |

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| | S1C: Jiahao Gao S1D: Jiahao Gao, Kun Xiong |
| Figure S2 | S2A: Timur Galeev, Beatrice Borsari S2B: Yucheng T. Yang, Beatrice Borsari S2CD: Jinrui Xu, Jiahao Gao |
| Figure S3 | S3A: Jiahao Gao S3B-D: Timur Galeev, Jiahao Gao S3EF: Timur Galeev |
| Figure S4 | S4A: Timur Galeev, Gamze Gursoy, Kun Xiong S4B: Beatrice Borsari, Kun Xiong S4C: Kun Xiong |
| Figure S5 | S5A: Yucheng T. Yang, Jason Liu S5B: Yucheng T. Yang S5C: Timur Galeev, Kun Xiong S5D: Kun Xiong |
| Figure S6 | S6A-E: Beatrice Borsari |
| Figure S7 | S7A: Jiahao Gao S7B: Jun Wang S7C-E: Tianxiao Li |
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| Data S2 | S2A-C: Michael Schatz S2D: Kun Xiong, Joel Rozowsky S2EF: Michael Schatz S2G: Timur Galeev, Jiahao Gao S2H: Timur Galeev S2I: Yucheng T. Yang, Jiahao Gao, Beatrice Borsari |
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| Data S4 | S4A-D: James Wright, Kun Xiong |
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| Data S7 | S7A: Timur Galeev S7BC: Kun Xiong |
| Data S8 | S8AB: Timur Galeev S8C: Kun Xiong, Timur Galeev |
| Data S9 | S9A: Keyang Yu S9B: Keyang Yu, Timur Galeev |
| Data S10 | S10A-D: Gamze Gursoy |
| Data S11 | S11A: Timur Galeev S11B: Jun Wang |
| Data S12 | S12AB: Timur Galeev |
| Data S13 | S13A: Timur Galeev, Ana Berthel S13B-E: Ana Berthel |
| Data S14 | S14A-D: Christopher JF Cameron S14E-G: Gamze Gursoy S14H: Kun Xiong |
| Data S15 | S15A-E: Kun Xiong |
| Data S16 | S16A-E: Kun Xiong |
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| Data S20 | S20A-C: Jun Wang S20DE: Yucheng T. Yang, Yunzhe Jiang |
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| Data S22 | S22A-D: Yucheng T. Yang S22E: Joel Rozowsky S22F: Joel Rozowsky, Timur Galeev S22G: Timur Galeev S22H-J: Jun Wang |
| Data S23 | S23A-G: Jason Liu |
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| Data S25 | S25A-F: Yucheng T. Yang |
| Data S26 | S26A: Timur Galeev, Kun Xiong S26B: Timur Galeev S26C: Timur Galeev, Tianxiao Li S26DE: James Wright, Kun Xiong S26F: Keyang Yu, Timur Galeev |
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| Data S28 | S28A-G: Beatrice Borsari |
| Data S29 | S29A-D: Beatrice Borsari |
| Data S30 | S30A-J: Jiahao Gao S30K: Jun Wang |
| Data S31 | S31A-F: Jun Wang |
| Data S32 | S32A-F: Tianxiao Li |
| Data S33 | S33AE: Justin Chang, Joel Rozowsky S33F-H: Gamze Gursoy, Joel Rozowsky S33I: Jinrui Xu, Zhiping Weng |
| Data S34 | S34AB: Jinrui Xu, Morgan Levine S34C: Beatrice Borsari |
| Data S35 | S35: Jun Wang |
| Ancillary Files (extex.encodeproject.org) | |
| imprinted_genes_in_ENTEx_ASE.tsv | Timur Galeev |
| phased_block.tar.gz | Jiahao Gao |
| fithic2_out.tar.gz | Gamze Gursoy |
| TopDomTADcalls.tar.gz | Gamze Gursoy |
| Supp_data_proteomics.xlsx | James Wright, Kun Xiong |
| table.DE.genes.tsv: Beatrice Borsari | Beatrice Borsari |
| table.DE.genes.techReps.liver.tsv | Beatrice Borsari |
| table.DE.genes.GM12878.tsv | Beatrice Borsari |
| differentially_marked_H3K27ac_cCREs.txt | Yucheng T. Yang |
| Similarity_of_functional_genomic_activities_of_cCREs.xlsx | Jinrui Xu |
| normalized_proteomics_RNA-seq.dat | James Wright, Kun Xiong |
| sample_signal_track.tar.gz | Kun Xiong |
| AlleleSeq2_workflow_examples.tar.gz | Timur Galeev |
| hetSNVs_default_AS.tsv | Timur Galeev, Ana Berthel |
| ENTEx.TissueStacked.phased.final.txt | Keyang Yu |
| hic_files.tar.gz | Gamze Gursoy |
| genes_default_AS.tsv | Timur Galeev, Ana Berthel |
| cCREs_default_AS.tsv | Timur Galeev, Ana Berthel |
| Associated_AS_Disease_Genes.xlsx | Max Sun, Joel Rozowsky |
| hetSNVs_pooled_AS.tsv | Timur Galeev, Ana Berthel |
| ENTEx.TissueAggregated.final.txt | Keyang Yu |
| pgenome_NA12878.tar.gz | Timur Galeev |

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| pgenome_STL-002.tar.gz | Timur Galeev |
| pgenome_STL-003.tar.gz | Timur Galeev |
| hetSNVs_high-confidence_AS.tsv | Timur Galeev, Ana Berthel |
| hetSNVs_high-power_AS.tsv | Ana Berthel |
| Supp_Data SVs associated with eQTL.xlsx | Kun Xiong |
| cCRE_histoneSignals_qnorm.tar.gz | Jinrui Xu |
| cCRE_decoration.matrix | Yucheng T. Yang |
| active.combined_set.txt.zip | Yucheng T. Yang |
| bivalent.combined_set.txt.zip | Yucheng T. Yang |
| repressed.combined_set.txt.zip | Yucheng T. Yang |
| Repressive_ccre_dnamethy_repressiveHM.zip | Yucheng T. Yang, Yunzhe Jiang |
| Repressive_cCRE_DNAMethy_repressiveHM_summary.csv | Yucheng T. Yang, Yunzhe Jiang |
| cCRE_DNAme_subset.tsv.zip | Yunzhe Jiang, Jason Liu |
| stringent.regions.MF.hg38.bed | Jason Liu |
| ENTEx_fully_repressed_regions_independent_of_cCREs.bed | Jun Wang |
| Tissue_specificity.zip | Yucheng T. Yang |
| QTL_enrichment.zip | Yucheng T. Yang |
| GWAS_enrichment.zip | Yucheng T. Yang |
| Supp_Data_Compatibility.xlsx | Kun Xiong |
| AS_ratios_and_eQTL_effect.tsv | Timur Galeev, Tianxiao Li |
| R6_RData.objects | Beatrice Borsari |
| R6_RData.4hm.objects | Beatrice Borsari |
| perTissue.likely.eQTLs.tsv | Beatrice Borsari |
| predictions.blood.eQTLs.tar.gz | Beatrice Borsari |
| motif_ranking.tsv | Jiahao Gao |
| SNPs_motif_cCRE.txt.gz | Jiahao Gao |
| ASB-predictions-on-GTEEx-cohort.tsv.zip | Jun Wang |
| ENTEx.Explorer.cCRE.Combined.zip | Justin Chang, Joel Rozowsky |
| ENTEx.Explorer.Expression.Combined.zip | Justin Chang, Joel Rozowsky |
| ENTEx.Proteomics.cCRE.Combined.zip | Justin Chang, Joel Rozowsky |
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