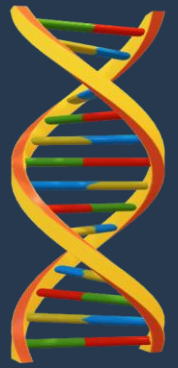
ZNF768 ChIP-seq analysis



CHRISTOPHE TAV

BILODEAU LAB

UPDATE

FEBRUARY 27TH, 2025

JOURNAL ARTICLE

MIR sequences recruit zinc finger protein ZNF768 to expressed genes

Michaela Rohrmoser, Michael Kluge, Yousra Yahia, Anita Gruber-Eber, Muhammad Ahmad Maqbool, Ignasi Forné, Stefan Krebs, Helmut Blum, Ann Katrin Greifenberg, Matthias Geyer ... Show more

Nucleic Acids Research, Volume 47, Issue 2, 25 January 2019, Pages 700–715, https://doi-org.acces.bibl.ulaval.ca/10.1093/nar/gky1148

Published: 22 November 2018 **Article history** ▾

Series GSE111879

https://www.ncbi.nlm.nih.gov/geo/query/acc.cgi?acc=GSE111879

Series GSE111879 Query DataSets for GSE111879

Status	Public on Oct 29, 2018
Title	MIR sequences recruit zinc finger protein ZNF768 to expressed genes
Organism	Homo sapiens
Experiment type	Genome binding/occupancy profiling by high throughput sequencing

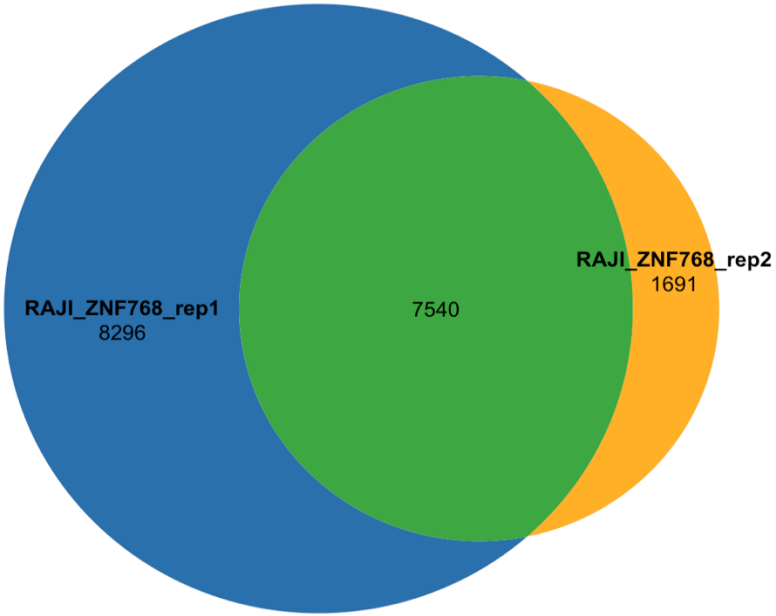
Samples (6)
Less...

GSM3043267 Raji ZNF768 ChIP-seq (rep. 1)
GSM3043268 Raji ZNF768 ChIP-seq (rep. 2)
GSM3043269 Raji input
GSM3043270 U2OS ZNF768 ChIP-seq (rep. 1)
GSM3043271 U2OS ZNF768 ChIP-seq (rep. 2)
GSM3043272 U2OS input

> 2 replicates per cell line

Raji

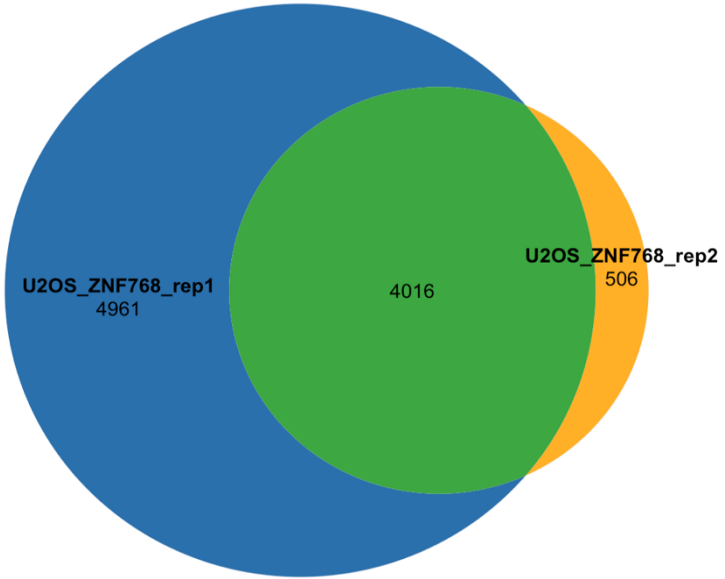
	number_of_peaks
RAJI_ZNF768_rep1	16000
RAJI_ZNF768_rep2	9348



> great consistency between replicates

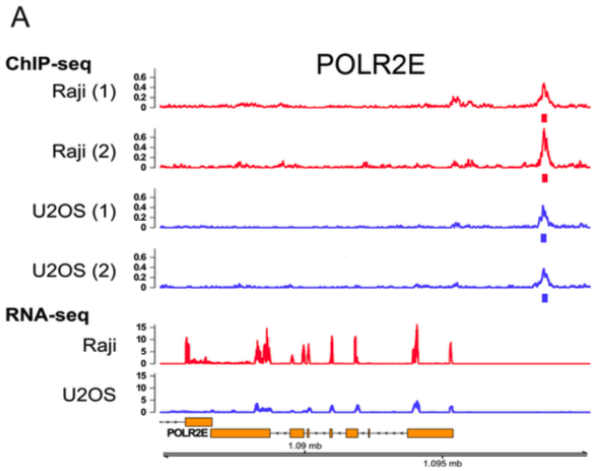
U2OS

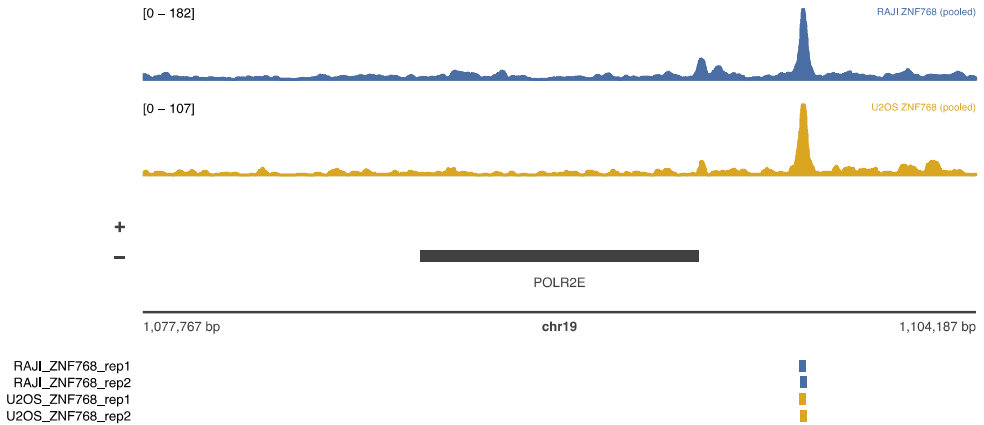
	number_of_peaks
U2OS_ZNF768_rep1	9032
U2OS_ZNF768_rep2	4540



> great consistency between replicates

Fig6A: POLR2E





Rohrmoser *et al*., Nucleic Acids Research, 2019

Fig6B: GAS2L1

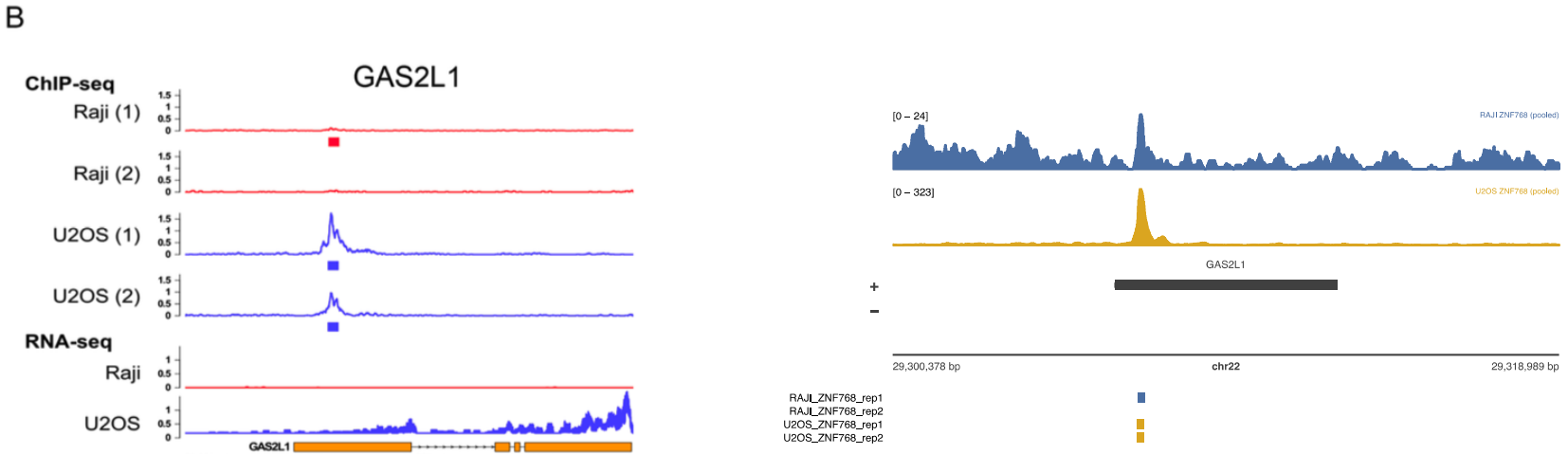
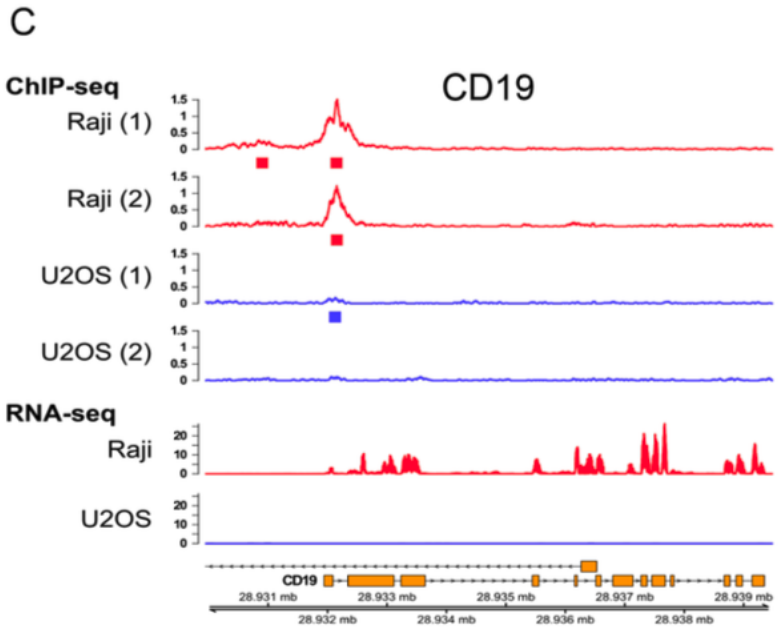
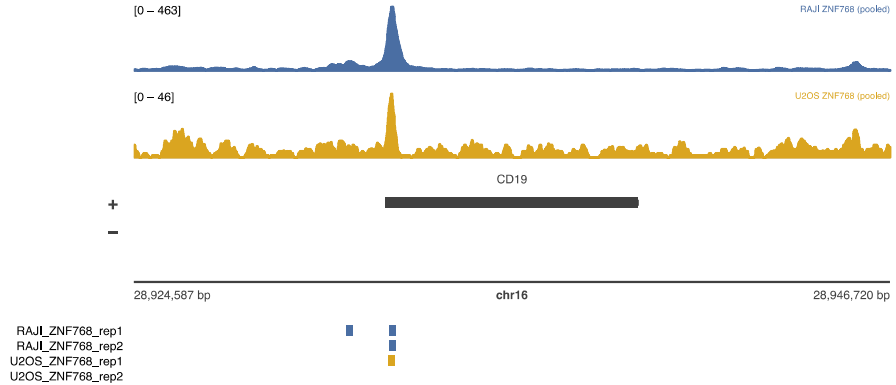


Fig6C: CD19





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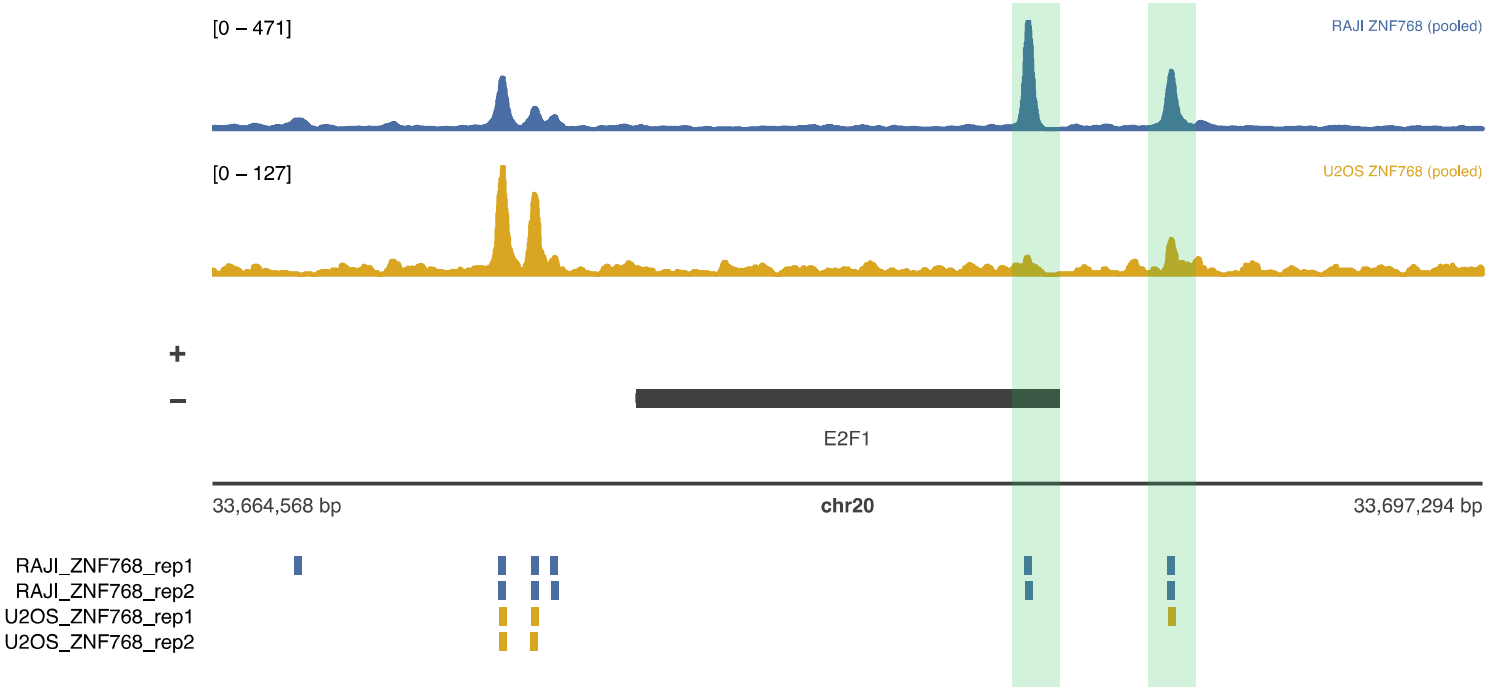
E2F1


[0 – 471]
RAJI ZNF768 (pooled)
[0 – 127]
U2OS ZNF768 (pooled)
+
–
E2F1
33,664,568 bp
chr20
33,697,294 bp
RAJI_ZNF768_rep1
RAJI_ZNF768_rep2
U2OS_ZNF768_rep1
U2OS_ZNF768_rep2

UCSC Tracks

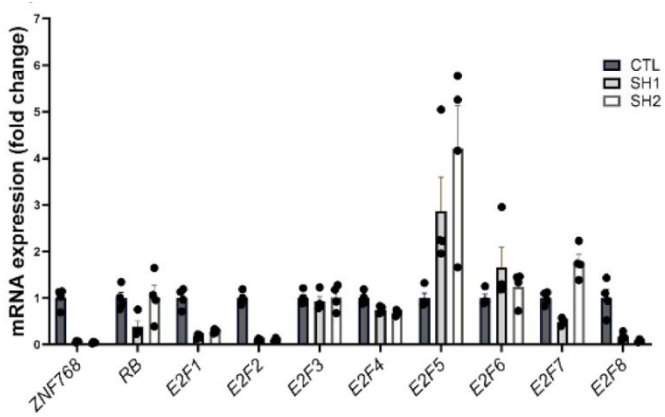
a link to UCSC Tracks will be available soon
(once the server error is resolved)

RAJI_ZNF768_rep1
RAJI_ZNF768_rep2
RAJI_ZNF768_pooled

U2OS_ZNF768_rep1
U2OS_ZNF768_rep2
U2OS_ZNF768_pooled

Perspectives

- Generate a UCSC track session
- Evaluate ZNF768 binding at ZNF768, RB and all E2FX genes
- Process available RNA-seq data if needed



Raji: GSE111880

GSM3043273 Raji total RNA (replicate 1)
GSM3043274 Raji total RNA (replicate 2)
GSM3043275 Raji total RNA (replicate 3)
GSM3043276 Raji total RNA (replicate 4)

U2OS: GSE111881

GSM3043277 U2OS cells ZNF768-DN (replicate 1)
GSM3043278 U2OS cells ZNF768-DN (replicate 2)
GSM3043279 U2OS cells ZNF768-DN (replicate 3)
GSM3043280 U2OS cells ZNF768-DN (replicate 4)
GSM3043281 U2OS cells control (replicate 1)
GSM3043282 U2OS cells control (replicate 2)
GSM3043283 U2OS cells control (replicate 3)
GSM3043284 U2OS cells control (replicate 4)