

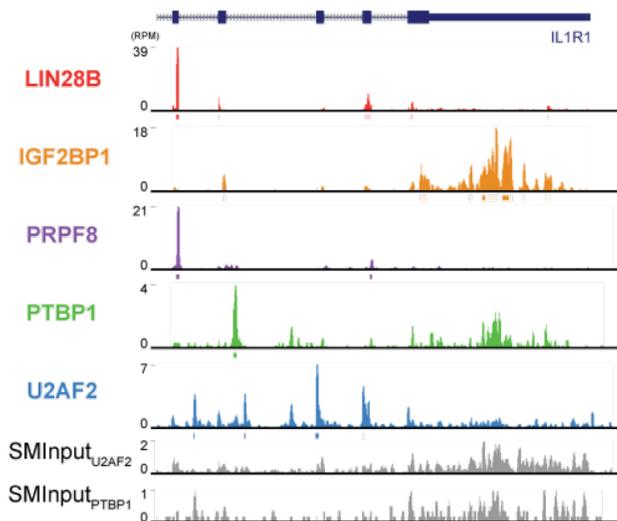
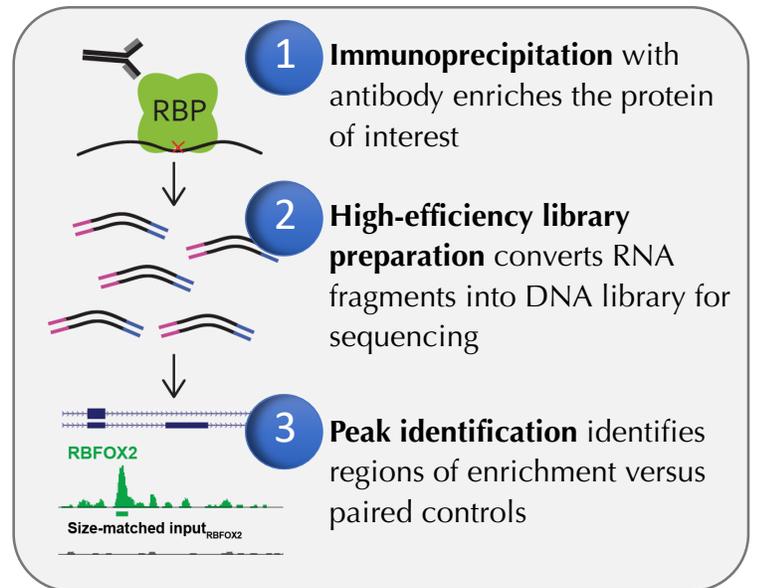


What is eCLIP?

Enhanced Crosslinking & Immunoprecipitation followed by high-throughput sequencing

Robust and simplified identification of RNA-binding protein gene targets

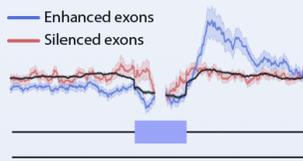
- ✓ **eCLIP** is a validated and reproducible method to identify RNA binding protein targets (Nature Methods, 2016).
- ✓ **eCLIP has thousand-fold improved** library prep efficiency compared to previous CLIP-seq methods, increasing experimental success rates and decreasing wasted sequencing due to PCR duplication.
- ✓ **eCLIP is robust** with over 150 proteins profiled to date
- ✓ Paired **size-matched input** significantly improves signal/noise to identify true *in vivo* targets.



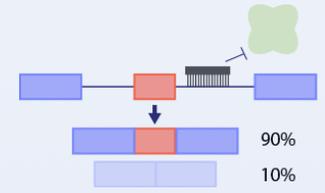
eCLIP identifies differential binding of 5 RBPs in HepG2

How can eCLIP help your research?

Identify **regulatory principles** with eCLIP and RNA-seq



Identify candidate **regulatory targets** for therapeutics



Identify **microRNA targets** with RISC complex eCLIP



"Eclipse Bio provides excellent technical service and a high-throughput platform for studying your RBP of interest!"

Prof Ioannis Aifantis, Eclipse Customer Chair, Dept of Pathology
Howard Hughes Medical Institute, NYU



ECLIPSE
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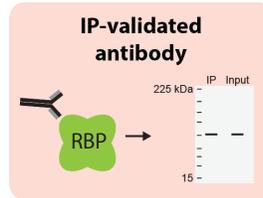
eCLIP with Eclipse Bio

eCLIP service: Use our expertise to get your CLIP experiment performed right!

Eclipse eCLIP service includes:

1. Cell or tissue lysis, RNA fragmentation, & immunoprecipitation
2. Library preparation of CLIP & size-matched input
3. Next-gen sequencing
4. Data analysis and delivery (includes peak calling and input normalization)

Customer provided:



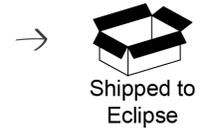
Model organisms

Cell lines

Human & mouse tissues

* 300 pre-validated Antibodies listed at http://www.eclipsebio.com/antibody_list.html

At Eclipse:



We perform eCLIP

You receive data

Rigorous in-line validation

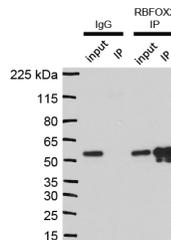
1. Crosslinking confirmed by input RNA yield
2. IP confirmed by western blot analysis
3. Library yield and size distribution confirmed by Tapestation and qPCR
4. Sequencing to yield 20 million reads

Paired size-matched input significantly improves signal/noise to identify true *in vivo* targets.

Read mapping and peak identification included!

Sample	Reads mapping to repetitive elements	Uniquely mapped reads	Uniquely mapped, non-PCR duplicate reads	PCR duplication Rate	Number of clusters	Significantly enriched peaks in IP versus input
RBFOX2 IP	11,386,804	6,187,663	5,284,957	14.6%	188,514	4,955
RBFOX2 Input	16,446,134	4,344,397	4,239,806	2.4%	-	-

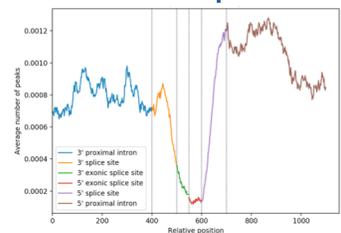
IP-western



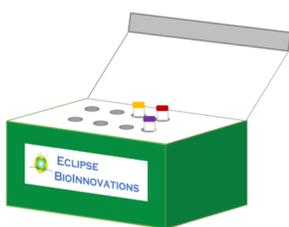
Motif enrichment

Rank	Motif	P-value
1	UUGCAUGC	1e-800
2	GCACCCUU	1e-99
3	CCUUUAG	1e-33
4	UAACCCUG	1e-29

Meta-exon and gene distribution plots



eCLIP kit: Simplified eCLIP experimentation in your own lab (coming soon)



Est. Q4 2018 launch

- Includes reagents, oligonucleotides, and simplified master mixes to streamline eCLIP in your laboratory
- Contact us to sign up for release information at eCLIPkit@eclipsebio.com



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