

Figure S1 related to Figure 1. Autoradiographic visualization showing non-crosslinked control vs crosslinked sample. The representative U2AF1 eCLIP-seq negative control, obtained from non-crosslinked U2AF1 S34F cells, is characterized by a faint, almost absent, RNA signal in comparison to the RNA signal in crosslinked U2AF1 S34F cells.

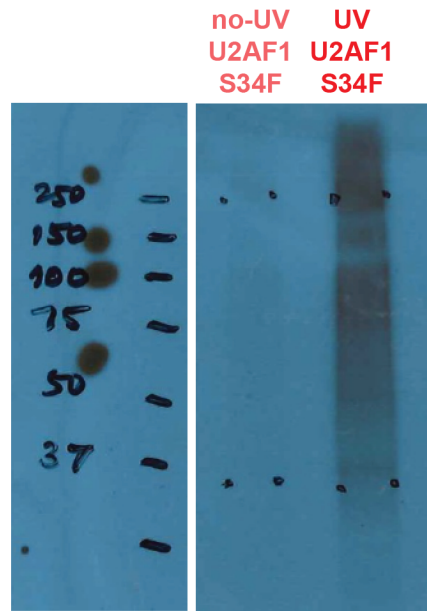


Table S1 related to Step 21. Illumina Pooling Guidelines.

Pooling Guidelines for 8-Plex Combinations

1		2		3		4		5		6	
D501	D705	D502	D706	D503	D701	D505	D702	D506	D704	D507	D703
D502	D704	D501	D702	D505	D703	D503	D706	D507	D705	D506	D701
D503	D703	D505	D705	D506	D706	D507	D701	D504	D702	D508	D704
D505	D701	D503	D704	D507	D702	D506	D703	D508	D706	D504	D705
D506	D710	D507	D712	D504	D707	D508	D708	D501	D709	D502	D711
D507	D709	D506	D708	D508	D711	D504	D712	D502	D710	D501	D707
D504	D711	D508	D710	D501	D712	D502	D707	D503	D708	D505	D709
D508	D707	D504	D709	D502	D708	D501	D711	D505	D712	D503	D710
7		8		9		10		11		12	
D501	D710	D502	D712	D503	D707	D505	D708	D506	D709	D507	D711
D502	D709	D501	D708	D505	D711	D503	D712	D507	D710	D506	D707
D503	D711	D505	D710	D506	D712	D507	D707	D504	D708	D508	D709
D505	D707	D503	D709	D507	D708	D506	D711	D508	D712	D504	D710
D506	D705	D507	D706	D504	D701	D508	D702	D501	D704	D502	D703
D507	D704	D506	D702	D508	D703	D504	D706	D502	D705	D501	D701
D504	D703	D508	D705	D501	D706	D502	D701	D503	D702	D505	D704
D508	D701	D504	D704	D502	D702	D501	D703	D505	D706	D503	D705

Pooling Guidelines for 6-Plex Combinations

1		2		3		4		5		6		7		8	
D501	D705	D501	D710	D502	D704	D502	D709	D503	D703	D503	D711	D505	D701	D505	D707
D502	D706	D502	D712	D501	D702	D501	D708	D505	D705	D505	D710	D503	D704	D503	D709
D503	D701	D503	D707	D505	D703	D505	D711	D506	D706	D506	D712	D507	D702	D507	D708
D505	D702	D505	D708	D503	D706	D503	D712	D507	D701	D507	D707	D506	D703	D506	D711
D506	D704	D506	D709	D507	D705	D507	D710	D504	D702	D504	D708	D508	D706	D508	D712
D507	D703	D507	D711	D506	D701	D506	D707	D508	D704	D508	D709	D504	D705	D504	D710
9		10		11		12		13		14		15		16	
D506	D710	D506	D705	D507	D709	D507	D704	D504	D711	D504	D703	D508	D707	D508	D701
D507	D712	D507	D706	D506	D708	D506	D702	D508	D710	D508	D705	D504	D709	D504	D704
D504	D707	D504	D701	D508	D711	D508	D703	D501	D712	D501	D706	D502	D708	D502	D702
D508	D708	D508	D702	D504	D712	D504	D706	D502	D707	D502	D701	D501	D711	D501	D703
D501	D709	D501	D704	D502	D710	D502	D705	D503	D708	D503	D702	D505	D712	D505	D706
D502	D711	D502	D703	D501	D707	D501	D701	D505	D709	D505	D704	D503	D710	D503	D705

Table S2 related to Pre-processing of next-generation sequencing data. 3' RNA linker sequences.

>X1A_linker ATATAGGNNNNNAGATCGGAAGAGCGTCGTGTAG
>X1B_linker AATAGCANNNNNAGATCGGAAGAGCGTCGTGTAG
>X2A_linker AAGTATANNNNNAGATCGGAAGAGCGTCGTGTAG
>X2B_linker AGAAGATNNNNNAGATCGGAAGAGCGTCGTGTAG
>RiL19_linker_input AGATCGGAAGAGCGTCGTG

Table S3 related to Pre-processing of next-generation sequencing data. Sequencing metrics of U2AF1 freCLIP-seq and Ago2 eCLIP-seq.

Sample	Raw reads	Deduplicated reads	Duplicates%	Post-trimming reads	Post-trimming reads %	Unique-mapped reads	Multi-mapped reads	Total-mapped reads	Mapping %	Average mapping length
U2AF1_WT_heavy_1	87045558	47552328	45.37%	46912474	98.65%	29967676	10265306	40232982	85.76%	62
U2AF1_WT_heavy_2	81620509	43373037	46.86%	42700777	98.45%	25925359	9340502	35265861	82.59%	56
U2AF1_WT_light_1	105709524	28975384	72.59%	28171271	97.22%	12220951	10186492	22407443	79.54%	49
U2AF1_WT_light_2	87500617	16315206	81.35%	15656052	95.96%	6326571	5920149	12246720	78.22%	55
Ago2_rep1	82698837	37723336	54.38%	36769823	97.47%	9442408	4586541	14028949	38.15%	70
Ago2_rep2	51389385	28419922	44.70%	27911154	98.21%	6224739	2790042	9014781	32.30%	73