

SUPPLEMENTARY DATA

Supplementary Table S1. Three-Day Assay Signal Window and Z-Factor Coefficient Determination									
Class	Day	Plate	Max/Min	Mean	SD	CV	PL-PL	Z-Factor	S:B ratio
Intraplate	1	1	Max	4,578	292	6.4	1-3	0.75	7.7
		2	Max	4,478	285	6.4	1-4	0.75	7.7
		3	Min	592	41	6.9	2-3	0.75	7.6
		4	Min	593	42	7.2	2-4	0.75	7.6
		All plates					All	0.74	7.6
	2	1	Max	3,963	277	7.0	1-3	0.71	6.8
		2	Max	4,073	272	7.0	1-4	0.71	6.9
		3	Min	581	48	8.3	2-3	0.72	7.0
		4	Min	576	47	8.2	2-4	0.73	7.1
		All plates					All	0.71	7.0
	3	1	Max	1,945	125	6.4	1-3	0.74	6.8
		2	Max	1,981	163	8.2	1-4	0.74	6.6
		3	Min	288	21	7.2	2-3	0.67	6.9
		4	Min	293	20	7.0	2-4	0.67	6.8
		All plates					All	0.7	6.8
Interplate	1	1 and 2	Max	4,528	293	6.5		0.74	7.6
		3 and 4	Min	592	42	7.0			
	2	1 and 2	Max	4,018	278	7.0		0.71	7.0
		3 and 4	Min	578	48	8.3			
	3	1 and 2	Max	1,963	146	7.5		0.70	6.8
		3 and 4	Min	290	21	7.1			
Day to Day	Day 1 and 2	All plates	Max	4,273	383	9.0		0.65	7.30
			Min	585	45	7.8			
	Day 2 and 3	All plates	Max	2,990	1,052	35.2		-0.41	6.89
			Min	434	149	34.23			

The average inner intensity of AR-RFP (Ch3) within the TIF2-GFP-positive nucleoli (Ch2) data presented in *Table 2* was generated in three independent experiments of 2×384-well plates each of the maximum (20 nM DHT and 0.2% DMSO) and minimum (0.2% DMSO) plate controls conducted on 3 separate days.

AR, androgen receptor; CV, coefficient of variation; DHT, dihydrotestosterone; DMSO, dimethyl sulfoxide; GFP, green fluorescent protein; PL-PL, plate to plate comparison; RFP, red fluorescent protein; S:B, signal-to-background; SD, standard deviation; TIF2, transcriptional intermediary factor 2.