

Results transfection in seven human cell lines

Results transfections in seven human cell lines

Case Summaries

SKWe/l = SK cell+Wild type/H9+early/late promoter, SKVe = SK cell+Variant/UF1+early, HWe = HEK cell+Wild type/H9+early, HVe = HEK cell+Variant/UF1+early, BELWe=BEL cell+Wild type/H9+early		ratio=luc/protein concentration	RelativeRatio=r atio/meanRatio x 100%	RelativeRatio2 =ratio/meanRatio2 x 100%
BELHe	N	12	12	12
	Mean	11,3213	99,9827	99,9827
	Median	8,6175	101,9896	101,9896
	Std. Deviation	8,39754	18,68030	18,68030
	Minimum	1,70	63,45	63,45
	Maximum	26,93	131,26	131,26
BELHI	N	12	12	12
	Mean	22,6754	100,0335	246,4719
	Median	14,2473	99,1740	215,8608
	Std. Deviation	21,18865	11,30509	183,89991
	Minimum	4,14	85,96	51,06
	Maximum	62,07	116,52	532,31
BELUe	N	12	12	12
	Mean	51,8208	626,2552	626,2552
	Median	32,5267	529,0969	529,0969
	Std. Deviation	44,52618	421,88797	421,88797
	Minimum	17,75	155,56	155,56
	Maximum	153,98	1320,58	1320,58
BELUI	N	12	12	12
	Mean	48,7794	321,8155	774,7567
	Median	37,9151	292,5261	519,2039
	Std. Deviation	31,17919	165,12058	707,19811

	Minimum	18,32	153,21	153,21
	Maximum	105,19	560,77	1997,88
C33AHe	N	9	9	9
	Mean	964772,3469	100,0000	100,0000
	Median	689457,5893	103,1342	103,1342
	Std. Deviation	459878,81416	9,65341	9,65341
	Minimum	574882,35	85,88	85,88
	Maximum	1730706,47	111,82	111,82
C33AHI	N	9	9	9
	Mean	3070632,4128	100,0000	346,0499
	Median	2741740,5248	99,5685	389,3253
	Std. Deviation	817752,64344	12,17783	77,35476
	Minimum	2114814,81	83,77	221,96
	Maximum	4898584,91	122,79	422,66
C33AUe	N	9	9	9
	Mean	2839185,3606	335,7420	335,7420
	Median	3243407,7079	288,7011	288,7011
	Std. Deviation	822765,84585	154,09556	154,09556
	Minimum	1533044,44	171,07	171,07
	Maximum	3826086,96	588,50	588,50
C33AUI	N	9	9	9
	Mean	862054,7887	27,9527	96,4147
	Median	784569,7674	29,0800	101,4119
	Std. Deviation	227100,29157	2,49251	19,37709
	Minimum	592042,20	23,45	65,18
	Maximum	1219172,87	30,56	118,00
HEKHe	N	12	12	12
	Mean	763,6952	99,9853	99,9853

	Median	703,6146	98,9738	98,9738
	Std. Deviation	420,02811	18,82021	18,82021
	Minimum	271,88	57,51	57,51
	Maximum	1574,51	128,24	128,24
HEKHI	N	12	12	12
	Mean	3004,5692	100,1525	331,1995
	Median	2644,7232	98,4250	312,2218
	Std. Deviation	2245,26811	18,75196	179,73019
	Minimum	182,54	66,32	62,06
	Maximum	6709,38	132,48	556,84
HEKUe	N	12	12	12
	Mean	3078,7329	497,5071	497,5071
	Median	2822,7435	376,4573	376,4573
	Std. Deviation	856,12040	274,17135	274,17135
	Minimum	1927,39	270,94	270,94
	Maximum	4760,20	1120,26	1120,26
HEKUI	N	12	12	12
	Mean	4847,2184	486,2380	716,7112
	Median	4245,0400	138,3681	625,3852
	Std. Deviation	2605,29064	673,38174	401,46589
	Minimum	1984,69	80,69	326,62
	Maximum	10126,58	2065,16	1702,12
HELAHe	N	9	9	9
	Mean	59978,8837	99,9998	99,9998
	Median	33548,8127	101,2134	101,2134
	Std. Deviation	48372,99192	19,02066	19,02066
	Minimum	17741,74	67,26	67,26
	Maximum	145377,78	127,18	127,18

HELAHI	N	9	9	9
	Mean	54264,1857	100,0009	90,6030
	Median	33331,4917	100,0859	83,8070
	Std. Deviation	42713,96577	14,24418	16,90098
	Minimum	20145,95	74,30	75,74
	Maximum	127119,66	121,73	124,08
HELAUe	N	9	9	9
	Mean	28060,0776	47,4555	47,4555
	Median	15795,6731	48,9246	48,9246
	Std. Deviation	22949,41638	9,69537	9,69537
	Minimum	10876,75	34,04	34,04
	Maximum	73817,39	61,09	61,09
HELAUI	N	9	9	9
	Mean	19262,1154	35,2987	30,3175
	Median	12140,9922	37,9965	34,1043
	Std. Deviation	17759,12812	19,95866	15,20718
	Minimum	3345,61	10,44	10,64
	Maximum	44812,50	59,95	48,03
SKHe	N	12	12	12
	Mean	549,3852	100,0608	100,0608
	Median	467,9900	106,7869	106,7869
	Std. Deviation	426,65359	22,24295	22,24295
	Minimum	27,89	55,14	55,14
	Maximum	1307,48	123,70	123,70
SKHI	N	12	12	12
	Mean	1197,2878	100,0003	348,6782
	Median	739,3610	104,3274	304,4243
	Std. Deviation	1043,88636	15,40607	250,85098

	Minimum	194,91	73,49	43,74
	Maximum	2875,42	117,33	632,36
SKUe	N	12	12	12
	Mean	2955,8925	873,0944	873,0944
	Median	2915,8293	745,2803	745,2803
	Std. Deviation	1526,12410	579,12394	579,12394
	Minimum	715,07	285,58	285,58
	Maximum	4753,72	2101,13	2101,13
SKUI	N	12	12	12
	Mean	1921,0003	172,1900	477,7410
	Median	1733,5906	154,2552	374,2921
	Std. Deviation	1381,64219	69,66005	300,61632
	Minimum	205,47	77,47	122,49
	Maximum	4243,01	315,60	933,12
SWHe	N	15	15	15
	Mean	233,6555	100,1009	100,1009
	Median	201,7333	97,4895	97,4895
	Std. Deviation	180,05337	7,07023	7,07023
	Minimum	46,69	88,49	88,49
	Maximum	570,00	114,93	114,93
SWHI	N	15	15	15
	Mean	520,0577	99,9812	234,5721
	Median	567,2811	97,3756	260,6069
	Std. Deviation	354,54278	14,79878	142,80987
	Minimum	26,12	78,29	54,07
	Maximum	1056,12	130,77	505,63
SWUe	N	15	15	15
	Mean	306,1903	133,2945	133,2945

	Median	191,0065	125,9118	125,9118
	Std. Deviation	235,72088	40,27364	40,27364
	Minimum	42,34	65,49	65,49
	Maximum	680,60	201,95	201,95
SWUI	N	15	15	15
	Mean	619,6890	164,1420	285,7477
	Median	774,4186	122,7968	288,7577
	Std. Deviation	375,17461	98,21836	78,54655
	Minimum	88,92	76,30	153,32
	Maximum	1045,71	412,56	388,15
U2OSHe	N	9	9	9
	Mean	158350,3096	99,9999	99,9999
	Median	179724,4898	101,7363	101,7363
	Std. Deviation	64853,25435	12,83040	12,83040
	Minimum	67796,95	83,18	83,18
	Maximum	245196,58	117,61	117,61
U2OSHI	N	9	9	9
	Mean	169879,1378	100,0001	131,7283
	Median	160762,8866	97,3641	86,1692
	Std. Deviation	13369,24594	6,70875	73,24035
	Minimum	157404,41	88,15	76,35
	Maximum	192394,74	107,88	245,54
U2OSUe	N	9	9	9
	Mean	42872,0784	25,2747	25,2747
	Median	49425,0000	26,2590	26,2590
	Std. Deviation	22074,40424	5,80517	5,80517
	Minimum	11381,17	14,53	14,53
	Maximum	63174,83	30,91	30,91

U2OSUI	N	9	9	9
	Mean	288272,2078	168,2910	250,3346
	Median	269908,4967	164,0203	143,3998
	Std. Deviation	93686,71738	48,61384	200,91130
	Minimum	173606,56	104,25	83,27
	Maximum	413372,73	231,51	527,56
Total	N	312	312	312
	Mean	247643,8384	197,2779	283,6549
	Median	1891,0346	106,8862	126,5459
	Std. Deviation	734273,64045	282,84962	333,63965
	Minimum	1,70	10,44	10,64
	Maximum	4898584,91	2101,13	2101,13

Statistics on luciferase values in seven human cell lines

Statistics luciferase values in 7 cell lines

Cells	plasmid	X _± SD	H9-E vs H9-L	UF1-E vs UF1-L	H9-E vs UF1-E	H9-E vs UF1-L	H9-L vs UF1-L	H9-L vs UF1-E
BEL7402	H9-E	11.321 _± 8.398	0.0984	0.8481	0.0053	0.0006	0.0254	0.0527
	H9-L	22.675 _± 21.189						
	UF1-E	51.821 _± 44.526						
	UF1-L	48.780 _± 31.179						
C33A	H9-E	964772 _± 459879	0.0001	0.0001	0.0001	0.5564	0.0001	0.5578
	H9-L	3070632 _± 817753						
	UF1-E	2839185 _± 822766						
	UF1-L	862055 _± 227100						
HEK293	H9-E	764 _± 420	0.0026	0.0360	0.0001	0.0001	0.0769	0.9157
	H9-L	3004 _± 2245						
	UF1-E	3079 _± 856						
	UF1-L	4847 _± 2605						
HeLa	H9-E	59979 _± 48373	0.7939	0.3766	0.0926	0.0307	0.0374	0.1245
	H9-L	54264 _± 42714						
	UF1-E	28060 _± 22949						
	UF1-L	19262 _± 17759						
SK-N	H9-E	549 _± 426	0.0591	0.0956	0.0001	0.0034	0.1618	0.0033
	H9-L	1197 _± 1044						
	UF1-E	2956 _± 1526						
	UF1-L	1921 _± 1382						
SW480	H9-E	234 _± 180	0.0094	0.0105	0.3519	0.0012	0.4614	0.0617
	H9-L	520 _± 355						
	UF1-E	306 _± 236						

	UF1-L	620+375						
U2OS	H9-E	158351+64853	0.6086	0.0001	0.0001	0.0035	0.0017	0.0001
	H9-L	169879+13369						
	UF1-E	42872+22074						
	UF1-L	288272+93687						

Original data luciferase values transfections in seven human cell lines

name	cell	promoter	promoterregio	paralell	repeat	ratio	RelativeRatio
BELHe	BEL	H9	e	1	1	1.6961326	79.4069568
BELHe	BEL	H9	e	2	1	2.58802817	121.162367
BELHe	BEL	H9	e	3	1	2.11827957	99.1703918
BELHe	BEL	H9	e	1	2	12.2707424	105.237928
BELHe	BEL	H9	e	2	2	15.3051643	131.26213
BELHe	BEL	H9	e	3	2	7.39776952	63.4457077
BELHe	BEL	H9	e	1	4	8.5	104.808878
BELHe	BEL	H9	e	2	4	7.10309278	87.5843746
BELHe	BEL	H9	e	3	4	8.73509934	107.70776
BELHe	BEL	H9	e	1	5	26.9341317	115.20159
BELHe	BEL	H9	e	2	5	22.6708861	96.9670063
BELHe	BEL	H9	e	3	5	20.5362319	87.8367489
BELHI	BEL	H9	l	1	1	8.27748691	108.771181
BELHI	BEL	H9	l	2	1	6.73267327	88.4713964
BELHI	BEL	H9	l	3	1	7.82307692	102.79996
BELHI	BEL	H9	l	1	2	62.0670391	112.746665
BELHI	BEL	H9	l	2	2	47.32	85.9582198
BELHI	BEL	H9	l	3	2	55.7740586	101.315274
BELHI	BEL	H9	l	1	4	4.14102564	89.0543149
BELHI	BEL	H9	l	2	4	5.35148515	115.085702
BELHI	BEL	H9	l	3	4	4.47208122	96.1737896
BELHI	BEL	H9	l	1	5	22.6862745	97.0328251
BELHI	BEL	H9	l	2	5	27.2427184	116.521465
BELHI	BEL	H9	l	3	5	20.2170543	86.4715751
BELUe	BEL	UF1	e	1	1	17.7528736	831.127039
BELUe	BEL	UF1	e	2	1	24.7346939	1157.99129
BELUe	BEL	UF1	e	3	1	19.2653061	901.933807
BELUe	BEL	UF1	e	1	2	153.979058	1320.57511
BELUe	BEL	UF1	e	2	2	82.1452145	704.504413
BELUe	BEL	UF1	e	3	2	124.353448	1066.49613
BELUe	BEL	UF1	e	1	4	27.2797203	336.371397
BELUe	BEL	UF1	e	2	4	28.6842105	353.689402
BELUe	BEL	UF1	e	3	4	28.3034483	348.99443
BELUe	BEL	UF1	e	1	5	36.3692308	155.557018
BELUe	BEL	UF1	e	2	5	40.9007634	174.939108
BELUe	BEL	UF1	e	3	5	38.0821918	162.883626
BELUI	BEL	UF1	l	1	1	39.0239521	512.798319
BELUI	BEL	UF1	l	2	1	36.8062827	483.656803
BELUI	BEL	UF1	l	3	1	42.6746988	560.771338
BELUI	BEL	UF1	l	1	2	100.728477	182.976343
BELUI	BEL	UF1	l	2	2	105.191638	191.08381
BELUI	BEL	UF1	l	3	2	89.2405063	162.108095
BELUI	BEL	UF1	l	1	4	22.1445087	476.225993
BELUI	BEL	UF1	l	2	4	19.5571429	420.583717
BELUI	BEL	UF1	l	3	4	18.3195266	393.968315
BELUI	BEL	UF1	l	1	5	35.8195489	153.20594

BELUI	BEL	UF1	l	2	5	36.3763441	155.587443
BELUI	BEL	UF1	l	3	5	39.4700855	168.819869
C33AHe	C33A	H9	e	1	1	1608322.27	103.134208
C33AHe	C33A	H9	e	2	1	1730706.47	110.982135
C33AHe	C33A	H9	e	3	1	1339310.64	85.8837458
C33AHe	C33A	H9	e	1	2	655355.556	95.7097895
C33AHe	C33A	H9	e	2	2	633195.846	92.4735292
C33AHe	C33A	H9	e	3	2	765643.939	111.816585
C33AHe	C33A	H9	e	1	3	686076.459	105.527658
C33AHe	C33A	H9	e	2	3	689457.589	106.04772
C33AHe	C33A	H9	e	3	3	574882.353	88.4245297
C33AHI	C33A	H9	l	1	1	3608080.81	90.4427109
C33AHI	C33A	H9	l	2	1	3461400.36	86.7659148
C33AHI	C33A	H9	l	3	1	4898584.91	122.791401
C33AHI	C33A	H9	l	1	2	2741740.52	101.622426
C33AHI	C33A	H9	l	2	2	2686327.08	99.56853
C33AHI	C33A	H9	l	3	2	2665834.89	98.8089885
C33AHI	C33A	H9	l	1	3	2114814.81	83.7691751
C33AHI	C33A	H9	l	2	3	2711009.17	107.384817
C33AHI	C33A	H9	l	3	3	2747899.16	108.846053
C33AUe	C33A	UF1	e	1	1	3520153.06	225.731001
C33AUe	C33A	UF1	e	2	1	3466267.33	222.27556
C33AUe	C33A	UF1	e	3	1	2667816.96	171.074661
C33AUe	C33A	UF1	e	1	2	1976828.9	288.701112
C33AUe	C33A	UF1	e	2	2	1997093.19	291.660561
C33AUe	C33A	UF1	e	3	2	1533044.44	223.889703
C33AUe	C33A	UF1	e	1	3	3243407.71	498.879118
C33AUe	C33A	UF1	e	2	3	3826086.96	588.502913
C33AUe	C33A	UF1	e	3	3	3321969.7	510.962994
C33AUI	C33A	UF1	l	1	1	1196969.23	30.0040791
C33AUI	C33A	UF1	l	2	1	1016380.33	25.4773098
C33AUI	C33A	UF1	l	3	1	1219172.87	30.5606512
C33AUI	C33A	UF1	l	1	2	808005.571	29.9486714
C33AUI	C33A	UF1	l	2	2	784569.767	29.0800249
C33AUI	C33A	UF1	l	3	2	694400	25.7378887
C33AUI	C33A	UF1	l	1	3	742593.83	29.4146193
C33AUI	C33A	UF1	l	2	3	592042.202	23.4511724
C33AUI	C33A	UF1	l	3	3	704359.296	27.9001248
HEKHe	HEK	H9	e	1	1	271.883289	92.4270088
HEKHe	HEK	H9	e	2	1	320.637584	109.001082
HEKHe	HEK	H9	e	3	1	289.96328	98.5733207
HEKHe	HEK	H9	e	1	3	517.987805	85.2458372
HEKHe	HEK	H9	e	2	3	603.838384	99.3743637
HEKHe	HEK	H9	e	3	3	701.075269	115.376748
HEKHe	HEK	H9	e	1	4	1400.57307	114.072689
HEKHe	HEK	H9	e	2	4	1574.5098	128.239341
HEKHe	HEK	H9	e	3	4	706.153846	57.5142204

HEKHe	HEK	H9	e	1	5	1094.88	118.249074
HEKHe	HEK	H9	e	2	5	848.52	91.6417362
HEKHe	HEK	H9	e	3	5	834.32	90.1081099
HEKHI	HEK	H9	l	1	1	228.431877	94.2181384
HEKHI	HEK	H9	l	2	1	316.389549	130.496824
HEKHI	HEK	H9	l	3	1	182.544987	75.2918074
HEKHI	HEK	H9	l	1	3	1930.43478	103.150169
HEKHI	HEK	H9	l	2	3	1820.07366	97.2531721
HEKHI	HEK	H9	l	3	3	1863.93443	99.5968125
HEKHI	HEK	H9	l	1	4	5217.48401	103.020306
HEKHI	HEK	H9	l	2	4	3359.01163	66.3243827
HEKHI	HEK	H9	l	3	4	6709.375	132.478004
HEKHI	HEK	H9	l	1	5	5155.88	107.212027
HEKHI	HEK	H9	l	2	5	4608.16	95.8226677
HEKHI	HEK	H9	l	3	5	4663.11	96.965305
HEKUe	HEK	UF1	e	1	1	1927.38589	655.216852
HEKUe	HEK	UF1	e	2	1	3295.3668	1120.26339
HEKUe	HEK	UF1	e	3	1	2678.62267	910.600581
HEKUe	HEK	UF1	e	1	3	2686.74699	442.160981
HEKUe	HEK	UF1	e	2	3	3591.24088	591.014561
HEKUe	HEK	UF1	e	3	3	2219.15888	365.209479
HEKUe	HEK	UF1	e	1	4	4425.65598	360.45708
HEKUe	HEK	UF1	e	2	4	3369.98255	274.475484
HEKUe	HEK	UF1	e	3	4	4760.20408	387.70507
HEKUe	HEK	UF1	e	1	5	2958.74	319.549416
HEKUe	HEK	UF1	e	2	5	2508.67	270.94102
HEKUe	HEK	UF1	e	3	5	2523.02	272.490847
HEKUI	HEK	UF1	l	1	1	3066.09808	1264.63109
HEKUI	HEK	UF1	l	2	1	3252.74725	1341.6157
HEKUI	HEK	UF1	l	3	1	5006.96864	2065.15514
HEKUI	HEK	UF1	l	1	3	1984.689	106.049169
HEKUI	HEK	UF1	l	2	3	2430.45113	129.867865
HEKUI	HEK	UF1	l	3	3	2216.32653	118.426407
HEKUI	HEK	UF1	l	1	4	8182.82548	161.57159
HEKUI	HEK	UF1	l	2	4	10126.5823	199.951472
HEKUI	HEK	UF1	l	3	4	7438.17204	146.868253
HEKUI	HEK	UF1	l	1	5	5971.68	124.175877
HEKUI	HEK	UF1	l	2	5	3880.62	80.694108
HEKUI	HEK	UF1	l	3	5	4609.46	95.8497
HELAHe	HELA	H9	e	1	1	35290.3226	112.203747
HELAHe	HELA	H9	e	2	1	31156.5934	99.0607701
HELAHe	HELA	H9	e	3	1	27907.9755	88.7319581
HELAHe	HELA	H9	e	1	2	33548.8127	127.180002
HELAHe	HELA	H9	e	2	2	27847.0255	105.565129
HELAHe	HELA	H9	e	3	2	17741.7417	67.2570671
HELAHe	HELA	H9	e	1	3	123587.591	101.213365
HELAHe	HELA	H9	e	2	3	145377.778	119.058669

HELAHe	HELA	H9	e	3	3	97352.1127	79.7275422
HELAHI	HELA	H9	l	1	1	39025.0696	121.728905
HELAHI	HELA	H9	l	2	1	23820.6522	74.3025427
HELAHI	HELA	H9	l	3	1	33331.4917	103.969218
HELAHI	HELA	H9	l	1	2	22107.438	104.601079
HELAHI	HELA	H9	l	2	2	20145.9459	95.3203026
HELAHI	HELA	H9	l	3	2	21153.1532	100.085891
HELAHI	HELA	H9	l	1	3	95442.8571	87.084488
HELAHI	HELA	H9	l	2	3	127119.658	115.987206
HELAHI	HELA	H9	l	3	3	106231.405	96.9282331
HELAUe	HELA	UF1	e	1	1	15795.6731	50.2215219
HELAUe	HELA	UF1	e	2	1	15387.7551	48.9245679
HELAUe	HELA	UF1	e	3	1	11132.2751	35.3944904
HELAUe	HELA	UF1	e	1	2	16114.9425	61.0900433
HELAUe	HELA	UF1	e	2	2	13518.2927	51.2464183
HELAUe	HELA	UF1	e	3	2	10876.7507	41.2326119
HELAUe	HELA	UF1	e	1	3	73817.3913	60.4535332
HELAUe	HELA	UF1	e	2	3	54335.5263	44.4986539
HELAUe	HELA	UF1	e	3	3	41562.0915	34.0377144
HELAUI	HELA	UF1	l	1	1	3751.91816	11.7031665
HELAUI	HELA	UF1	l	2	1	3404.68227	10.6200514
HELAUI	HELA	UF1	l	3	1	3345.60907	10.4357873
HELAUI	HELA	UF1	l	1	2	12669.5157	59.945662
HELAUI	HELA	UF1	l	2	2	10887.931	51.5161156
HELAUI	HELA	UF1	l	3	2	12140.9922	57.4449594
HELAUI	HELA	UF1	l	1	3	40702.4793	37.1379764
HELAUI	HELA	UF1	l	2	3	41643.4109	37.9965062
HELAUI	HELA	UF1	l	3	3	44812.5	40.8880637
SKHe	SK	H9	e	1	2	27.887931	55.1362812
SKHe	SK	H9	e	2	2	61.2669683	121.128842
SKHe	SK	H9	e	3	2	62.5675676	123.700213
SKHe	SK	H9	e	1	3	1304.49102	115.356952
SKHe	SK	H9	e	2	3	780.511182	69.0210891
SKHe	SK	H9	e	3	3	1307.47664	115.620972
SKHe	SK	H9	e	1	4	422.916667	75.4844391
SKHe	SK	H9	e	2	4	607.894737	108.500319
SKHe	SK	H9	e	3	4	650	116.015493
SKHe	SK	H9	e	1	5	431.63	94.9242374
SKHe	SK	H9	e	2	5	458.2	100.767522
SKHe	SK	H9	e	3	5	477.78	105.073563
SKHI	SK	H9	l	1	2	194.90982	73.4926359
SKHI	SK	H9	l	2	2	309.494163	116.697773
SKHI	SK	H9	l	3	2	291.229236	109.810805
SKHI	SK	H9	l	1	3	677.744807	110.962001
SKHI	SK	H9	l	2	3	660.05291	108.065441
SKHI	SK	H9	l	3	3	494.578313	80.9735446
SKHI	SK	H9	l	1	4	800.977199	75.0519756

SKHI	SK	H9	l	2	4	1252.1978	117.331578
SKHI	SK	H9	l	3	4	1148.52941	107.617797
SKHI	SK	H9	l	1	5	2875.42	101.036927
SKHI	SK	H9	l	2	5	2793.75	98.1671943
SKHI	SK	H9	l	3	5	2868.57	100.79623
SKUe	SK	UF1	e	1	2	1062.75168	2101.13024
SKUe	SK	UF1	e	2	2	715.065913	1413.73253
SKUe	SK	UF1	e	3	2	757.08061	1496.79836
SKUe	SK	UF1	e	1	3	3479.86577	307.726694
SKUe	SK	UF1	e	2	3	3229.42643	285.580187
SKUe	SK	UF1	e	3	3	4388.57143	388.0841
SKUe	SK	UF1	e	1	4	2602.23214	464.460375
SKUe	SK	UF1	e	2	4	2587.6652	461.860388
SKUe	SK	UF1	e	3	4	2497.56098	445.778103
SKUe	SK	UF1	e	1	5	4730.99	1040.44116
SKUe	SK	UF1	e	2	5	4753.72	1045.43995
SKUe	SK	UF1	e	3	5	4665.78	1026.10015
SKUI	SK	UF1	l	1	2	262.598425	99.0152804
SKUI	SK	UF1	l	2	2	409.803922	154.520539
SKUI	SK	UF1	l	3	2	205.46875	77.4739829
SKUI	SK	UF1	l	1	3	1927.67123	315.602946
SKUI	SK	UF1	l	2	3	1385.14851	226.779829
SKUI	SK	UF1	l	3	3	1692.56198	277.110297
SKUI	SK	UF1	l	1	4	1774.61929	166.28274
SKUI	SK	UF1	l	2	4	1643.42629	153.989889
SKUI	SK	UF1	l	3	4	1918.13472	179.73021
SKUI	SK	UF1	l	1	5	4243.01	149.091503
SKUI	SK	UF1	l	2	5	3503.62	123.11071
SKUI	SK	UF1	l	3	5	4085.94	143.572355
SWHe	SW	H9	e	1	1	201.733333	96.5832017
SWHe	SW	H9	e	2	1	240.063291	114.934309
SWHe	SW	H9	e	3	1	184.819277	88.4853148
SWHe	SW	H9	e	1	2	87.3700306	92.3768562
SWHe	SW	H9	e	2	2	104.537572	110.528201
SWHe	SW	H9	e	3	2	91.8154762	97.0770524
SWHe	SW	H9	e	1	3	49.6978852	102.894172
SWHe	SW	H9	e	2	3	46.6927083	96.672274
SWHe	SW	H9	e	3	3	48.5100287	100.434842
SWHe	SW	H9	e	1	4	523.193717	96.7909345
SWHe	SW	H9	e	2	4	526.969697	97.4894914
SWHe	SW	H9	e	3	4	570	105.450105
SWHe	SW	H9	e	1	5	292.86	106.560419
SWHe	SW	H9	e	2	5	279.76	101.793836
SWHe	SW	H9	e	3	5	256.81	93.4432194
SWHI	SW	H9	l	1	1	1056.11511	114.477818
SWHI	SW	H9	l	2	1	875.531915	94.9034648
SWHI	SW	H9	l	3	1	836	90.6183947

SWHI	SW	H9	l	1	2	246.481994	101.663021
SWHI	SW	H9	l	2	2	286.646707	118.229205
SWHI	SW	H9	l	3	2	193.610451	79.8558265
SWHI	SW	H9	l	1	3	43.6239782	130.767321
SWHI	SW	H9	l	2	3	30.3286385	90.9131849
SWHI	SW	H9	l	3	3	26.118068	78.2915707
SWHI	SW	H9	l	1	4	503.921569	86.4997457
SWHI	SW	H9	l	2	4	567.281106	97.3756125
SWHI	SW	H9	l	3	4	676.506024	116.124418
SWHI	SW	H9	l	1	5	780.43	95.224325
SWHI	SW	H9	l	2	5	863.59	105.371109
SWHI	SW	H9	l	3	5	814.68	99.4033457
SWUe	SW	UF1	e	1	1	201.698113	96.5663394
SWUe	SW	UF1	e	2	1	189.558824	90.7544518
SWUe	SW	UF1	e	3	1	136.789668	65.4903375
SWUe	SW	UF1	e	1	2	191.006494	201.952309
SWUe	SW	UF1	e	2	2	160.027322	169.197846
SWUe	SW	UF1	e	3	2	168.516484	178.173486
SWUe	SW	UF1	e	1	3	61.7473684	127.841342
SWUe	SW	UF1	e	2	3	42.3364486	87.6531027
SWUe	SW	UF1	e	3	3	53.216	110.178054
SWUe	SW	UF1	e	1	4	671.484375	124.224734
SWUe	SW	UF1	e	2	4	680.603448	125.911764
SWUe	SW	UF1	e	3	4	667	123.395123
SWUe	SW	UF1	e	1	5	520	189.207874
SWUe	SW	UF1	e	2	5	435.47	158.450679
SWUe	SW	UF1	e	3	5	413.4	150.42026
SWUI	SW	UF1	l	1	1	774.418605	83.9432665
SWUI	SW	UF1	l	2	1	703.921569	76.3017255
SWUI	SW	UF1	l	3	1	810.731707	87.8794328
SWUI	SW	UF1	l	1	2	273.10705	112.644689
SWUI	SW	UF1	l	2	2	269.59799	111.197356
SWUI	SW	UF1	l	3	2	297.720798	122.796782
SWUI	SW	UF1	l	1	3	137.630522	412.561517
SWUI	SW	UF1	l	2	3	111.20462	333.347184
SWUI	SW	UF1	l	3	3	88.9151874	266.532336
SWUI	SW	UF1	l	1	4	1027.09677	176.30444
SWUI	SW	UF1	l	2	4	1041.34078	178.749469
SWUI	SW	UF1	l	3	4	828.75	142.257583
SWUI	SW	UF1	l	1	5	999.77	121.98714
SWUI	SW	UF1	l	2	5	885.42	108.034701
SWUI	SW	UF1	l	3	5	1045.71	127.592518
U2OSHe	U2OS	H9	e	1	1	216618.557	115.087348
U2OSHe	U2OS	H9	e	2	1	156555.556	83.1764551
U2OSHe	U2OS	H9	e	3	1	191489.13	101.736326
U2OSHe	U2OS	H9	e	1	2	245196.581	117.614381
U2OSHe	U2OS	H9	e	2	2	200504.505	96.176762

U2OSHe	U2OS	H9	e	3	2	179724.49	86.2091329
U2OSHe	U2OS	H9	e	1	3	85841.1765	109.554178
U2OSHe	U2OS	H9	e	2	3	81425.8373	103.919134
U2OSHe	U2OS	H9	e	3	3	67796.9543	86.5253708
U2OSHI	U2OS	H9	l	1	1	160220.43	97.3641088
U2OSHI	U2OS	H9	l	2	1	159465.241	96.9051888
U2OSHI	U2OS	H9	l	3	1	173989.529	105.731431
U2OSHI	U2OS	H9	l	1	2	179641.304	107.877125
U2OSHI	U2OS	H9	l	2	2	160762.887	96.5403705
U2OSHI	U2OS	H9	l	3	2	159168.317	95.582809
U2OSHI	U2OS	H9	l	1	3	185865.385	104.094192
U2OSHI	U2OS	H9	l	2	3	157404.412	88.1545808
U2OSHI	U2OS	H9	l	3	3	192394.737	107.750966
U2OSUe	U2OS	UF1	e	1	1	58181.8182	30.9114382
U2OSUe	U2OS	UF1	e	2	1	48105.2632	25.5578619
U2OSUe	U2OS	UF1	e	3	1	49425	26.2590253
U2OSUe	U2OS	UF1	e	1	2	63174.8252	30.3033098
U2OSUe	U2OS	UF1	e	2	2	63078.7402	30.2572204
U2OSUe	U2OS	UF1	e	3	2	60756.3025	29.1432078
U2OSUe	U2OS	UF1	e	1	3	17207.5472	21.9610072
U2OSUe	U2OS	UF1	e	2	3	11381.1659	14.5251304
U2OSUe	U2OS	UF1	e	3	3	14538.0435	18.5540725
U2OSUI	U2OS	UF1	l	1	1	278218.391	169.07011
U2OSUI	U2OS	UF1	l	2	1	252579.235	153.48949
U2OSUI	U2OS	UF1	l	3	1	269908.497	164.020283
U2OSUI	U2OS	UF1	l	1	2	203801.724	122.385797
U2OSUI	U2OS	UF1	l	2	2	202137.931	121.386666
U2OSUI	U2OS	UF1	l	3	2	173606.557	104.253175
U2OSUI	U2OS	UF1	l	1	3	401345.133	224.773954
U2OSUI	U2OS	UF1	l	2	3	413372.727	231.510026
U2OSUI	U2OS	UF1	l	3	3	399479.675	223.729201

Effect of HPyV9 LTA_g on HPyV9 and UF-1 promoters in BEL7402, HEK293 and HeLa cells

EFFECT OF HPyV9 LTA_g ON THE H9 AND UF1 EARLY AND LATE PROMOTERS IN BEL7401, HEK293 AND HeLa CELLS

Effect HPyV9 LTA_g on **H9-E** and **UF1-E** promoters in **BEL7401** cells

plasmid	LUC	Average LUC±SD	protein	LUC/prot	Average±SD
H9-E+EV	799 761 817	792±29	0,291 0,252 0,333	2746 3020 2453	2740±284
H9-E+LT	2612 2503 2567	2561±55	0,267 0,248 0,251	9783 10093 10227	10034±228
p (EV versus LT)		p=0.0001			p=0.0001 (3.7x)
UF1-E+EV	6959 7350 6375	6895±491	0,217 0,215 0,237	32069 34186 26899	31051±3749
UF1-E+LT	8068 8463 7297	7943±593	0,237 0,339 0,272	34042 24965 26827	28611±4794 (0.9x)
p (EV versus LT)		p=0.0778			p=0.5256

plasmid	LUC	protein	LUC/prot	Average±SD
H9-E+EV	1662 1640 1795	0,186 0,176 0,195	8935 9318 9205	9153±197
H9-E+LT	6221 7261 5334	0,222 0,244 0,216	28023 29758 24694	27492±2573 (3.0x)
p (EV versus LT)				p=0.0003
UF1-E+EV	9302 10143 9013	0,194 0,219 0,208	47948 46315 43332	45865±2341
UF1-E+LT	8738 8320 6895	0,224 0,205 0,185	39009 40585 37270	38965±1658 (0.8x)
p (EV versus LT)				p=0.0140

plasmid	LUC	prot	LUC/prot	Average±SD
H9-E+EV	3696	0,219	16877	17028±741
	3504	0,214	16374	
	3317	0,186	17833	
H9-E+LTA _g	7670	0,230	33348	36073±2365
	8426	0,226	37283	
	9209	0,245	37588	
LTA _g				P=0.0002 (2.1x)
UF1-E+EV	8567	0,275	31153	31828±2685
	6943	0,235	29545	
	8488	0,244	34787	
UF1-E+LTA _g	13117	0,237	55346	57167±1980
	12457	0,219	56881	
	12981	0,219	59274	
LTA _g				P=0.0002 (1.8x)

plasmid	LUC	protein	LUC/prot	Average±SD
H9-E+pcDNA3.1	2383	0,197	12096	11359±1296
	2160	0,219	9863	
	2339	0,193	12119	
H9-E+LTA _g	5246	0,263	19947	23935±3562 (2.1x)
	5896	0,220	26800	
	5964	0,238	25059	
EV vs LTA _g				p=0.0045
UF1-E+pcDNA3.1	6100	0,235	25957	29271±3012
	6933	0,231	30013	
	8884	0,279	31842	
UF1-E+LTA _g	11572	0,191	60586	68154±6823 (2.3x)
	12888	0,184	70043	
	12921	0,175	73834	
EV vs LTA _g				p=0.0008

plasmid	LUC	protein	LUC/protein	Average±SD
UF1-E+EV	6605	0,198	33359	30429±2852
	5892	0,213	27662	
	6689	0,221	30267	
UF1-E+LTA _g	12239	0,180	67994	61971±5225 (2.0x)
	12319	0,210	58662	
	10133	0,171	59257	
EV vs. LTA _g				p=0.0008

Effect HPyV9 LTA_g on **H9-L** and **UF1-L** promoters in **BEL7401** cells

plasmid	LUC	Protein conc	LUC/prot	Average±SD
H9-L+pcDNA3.1	8917	0,198	45035	41890±7885
	7637	0,232	32918	
	10164	0,213	47718	
H9-L+LTA _g	14912	0,249	59888	54149±5118
	11914	0,238	50059	
	12285	0,234	52500	
pcDNA3.1 vs LTA _g				0.0868 (1.3x)
UF1-L+pcDNA3.1	4154	0,258	16101	16757±1049
	3755	0,209	17967	
	3808	0,235	16204	
UF1-L+LTA _g	19776	0,227	87119	81069±6103 (4.8x)
	20699	0,255	81173	
	16706	0,223	74915	
pcDNA3.1 vs LTA _g				0.0001

plasmid	LUC	protein	LUC/prot	Average+SD
H9-L+pcDNA3.1	13875	0,193	71891	72621±5322
	14715	0,188	78271	
	12931	0,191	67702	
H9-L+LTag	23074	0,242	95347	98318±2851
	25864	0,256	101031	
	23067	0,234	98577	
pcDNA3.1 vs LTag				0.0018 (1.4x)
UF1-L+pcDNA3.1	6209	0,228	27232	24843±4401
	6112	0,222	27532	
	5356	0,271	19764	
UF1-L+LTag	46358	0,273	169810	153146±14870 (6.2x)
	37143	0,263	141228	
	35616	0,240	148400	
pcDNA3.1 vs LTag				0.0001

plasmid	LUC	protein	LUC/prot	Average±SD
H9-L+EV	8284 8397 9557	0,126 0,115 0,140	65746 73017 68264	69009±3692
H9-L+LTag	14969 14864 14866	0,175 0,157 0,152	85537 94675 97803	92672±6374 (1.3x)
EV vs LTag				p=0.0051
UF-1+EV	3253 3952 2932	0,141 0,146 0,128	23071 27068 22906	24348±2357
UF1-L+LTag	15757 16353 13807	0,155 0,139 0,130	101658 117647 106208	108504±8238 (4.5x)
EV vs LTag				p=0.0001

Effect HPyV9 LTA_g on **H9-E** and **UF1-E** promoters in **HEK293** cells

plasmid	LUC	Protein conc	LUC/prot	Average±SD
H9-E+EV	3685000	0,243	15164609	15930607±1753680
	4269000	0,238	17936975	
	4363000	0,297	14690236	
H9-E+LTA _g	6110000	0,313	19520767	18563802±2387613
	6890000	0,339	20324484	
	7210000	0,455	15846154	
LTA _g				P=0.1985 (1.2x)
UF1-E+EV	15840	1,011	15668	15236±1239
	11846	0,856	13839	
	10693	0,660	16202	
UF1-E-LTA _g	52761	0,907	58171	72303±25413
	39640	0,390	101641	
	45277	0,793	57096	
LTA _g				P=0.0178 (4.7x)

plasmid	LUC	prot	LUC/prot	Average±SD
H9-E+EV	40622	0,638	63671	87918±21841
	57923	0,616	94031	
	72115	0,680	106051	
H9-E+LTA _g	136159	0,531	256420	272991±21469
	148043	0,558	265310	
	173293	0,583	297244	
LTA _g				P=0.0005 (3.1x)
UF1-E+EV	3768	0,737	5113	5700±1757
	3302	0,766	4311	
	6040	0,787	7675	
UF1-E-LTA _g	45766	0,880	52007	40674±10731
	34547	0,878	39347	
	23706	0,773	30668	
LTA _g				P=0.0051 (7.1x)

plasmid	LUC	prot	LUC/prot	Average±SD
H9-E+EV	2799000	0,445	6289888	6779145+899549
	3166000	0,405	7817284	
	2841000	0,456	6230263	
H9-E+LTA _g	4278000	0,444	9635135	9896748+650001
	3805000	0,404	9418317	
	4510000	0,424	10636792	
LTA _g				P=0.0082 (1.5x)
UF1-E+EV	8172	0,509	16055	17203+2246
	9203	0,465	19791	
	7629	0,484	15762	
UF1-E+LTA _g	15993	0,440	36348	39582+3589
	21852	0,503	43443	
	18581	0,477	38954	
LTA _g				P=0.0008 (2.3x)

plasmid	LUC	prot	LUC/prot	Average±SD
H9-E+EV	2704000	0,284	9521127	8849607+628660
	2557000	0,309	8275081	
	2512000	0,287	8752613	
H9-E+LTA _g	5160000	0,326	15828221	15496269+333072
	5519000	0,364	15162088	
	5161000	0,333	15498499	
LTA _g				P=0.0001 (1.8x)
UF1-E+EV	75256	0,378	199090	236064+35109
	99781	0,371	268951	
	92939	0,387	240152	
UF1-E+LTA _g	328587	0,333	986748	929506+87386
	302556	0,365	828921	
	336606	0,346	972850	
LTA _g				P=0.0002 (3.9x)

Effect HPyV9 LTA_g on **H9-L** and **UF1-L** promoters in **HEK293** cells

plasmid	LUC	Prot. Conc.	LUC/port	Average±SD
H9-L+EV	57474	0,972	10354595	9353901±1316846
	80457	0,893	9845039	
	135893	1,467	7862069	
H9-L+LTA _g	1565000	0,917	5439349	5043589±369754
	2114000	1,012	4706970	
	2233000	1,079	4984448	
LTA _g				P=0.0055 (0.1x)
UF1-L+EV	1318000	2,017	653446	700480±51042
	716263	0,949	754756	
	811090	1,170	693239	
UF1-L+LTA _g	282865	0,380	744382	680883±177858
	826461	1,010	818278	
	602388	1,255	479990	
LTA _g				P=0.8634 (1.0x)

plasmid	LUC	Prot. Conc.	LUC/port	Average±SD
H9-L+EV	42771000	0,725	58994483	55485532±3386046
	40811000	0,739	55224628	
	44872000	0,859	52237485	
H9-L+LTA _g	24416000	0,960	25433333	28393784±2624391
	24652000	0,810	30434568	
	23099000	0,788	29313452	
LTA _g				P=0.0004 (0.5x)
UF1-L+EV	331057	0,749	441999	490558±53382
	453039	0,940	481956	
	479801	0,876	547718	
UF1-L+LTA _g	957553	0,833	1149523	919159±200168
	615229	0,750	820305	
	559230	0,710	787648	
LTA _g				P=0.0231 (1.9x)

plasmid	LUC	prot	LUC/prot	Average±SD
H9-L+EV	8096000	0,341	23741935	23101164±633020
	7552000	0,336	22476190	
	7572000	0,328	23085366	
H9-L+LTAg	5657000	0,263	21509506	19499907±2470950
	6095000	0,301	20249169	
	6077000	0,363	16741047	
LTAg				P=0.0708 (0.8x)
UF1-L+EV	29573000	0,820	36064634	33566830±2471330
	23560000	0,757	31122853	
	28352000	0,846	33513002	
UF1-L+LTAg	22872000	0,775	29512258	26425622±2725533
	21653000	0,852	25414319	
	21063000	0,865	24350289	
LTAg				P=0.0283 (0.8x)

plasmid	LUC	protein	LUC/prot	Average±SD
H9-L+EV	3710786	0,247	15023425	15409685±496912
	3108013	0,204	15235358	
	3241965	0,203	15970271	
H9-L+LTAg	2290525	0,297	7712205	8380007±690414
	2034182	0,244	8336811	
	2172750	0,239	9091004	
LTAg				P=0.0001 (0.5x)
UF1-L+EV	1619123	0,247	6555154	6566337±1116000
	1314889	0,241	5455971	
	1560641	0,203	7687887	
UF1-L+LTAg	4427185	0,288	15372170	16197588±1962261
	4523559	0,306	14782873	
	5512879	0,299	18437722	
LTAg				P=0.0018 (2.5x)

Effect HPyV9 LTA_g on **H9-E** and **UF1-E** promoters in **HeLa** cells

plasmid	LUC	Prot conc	LUC/prot	Average±SD
H9-E+EV	23519	0,283	83106	79738±12062
	23289	0,351	66350	
	26209	0,292	89757	
H9-E+LTA _g	182138	0,391	465826	459752±33569
	169001	0,399	423561	
	165576	0,338	489870	
LTA _g				P=0.0001 (5.8x)
UF1-E+EV	40718	0,390	104405	108402±12553
	41497	0,422	98334	
	57559	0,470	122466	
UF1-E+LTA _g	73832	0,390	185508	189335±21939
	66129	0,531	169562	
	113069	0,523	212936	
LTA _g				P=0.0052 (1.8x)

plasmid	LUC	Prot conc	LUC/prot	Average±SD
H9-E+EV	14288	0,250	57152	63163±5367
	12888	0,191	67476	
	12064	0,186	64860	
H9-E+LTA _g	47580	0,173	275029	272355±17776
	56000	0,221	253394	
	53976	0,187	288642	
LTA _g				P=0.0001 (4.3x)
UF1-E+EV	20553	0,488	42117	39214±4425
	22008	0,645	34121	
	22896	0,553	41403	
UF1-E+LTA _g	21307	0,523	40740	41966±5163
	22625	0,475	47632	
	19026	0,507	37527	
LTA _g				P=0.5218 (1.1x)

plasmid	LUC	prot	LUC/prot	Average±SD
H9-E+EV	23610	0,238	99202	96272±5903
	23332	0,233	100137	
	20222	0,226	89478	
H9-E+LTA _g	212182	0,247	859036	844088±78955
	215822	0,236	914500	
	185888	0,245	758727	
LTA _g				P=0.0001 (8.8x)
UF1-E+EV	22771	0,244	93324	95488±7050
	25635	0,248	103367	
	24598	0,274	89774	
UF1-E+LTA _g	39880	0,275	145018	150212±18277
	40393	0,299	135094	
	41437	0,243	170523	
LTA _g				P=0.0084 (1.6x)

plasmid	LUC	prot	LUC/prot	Average±SD
H9-E+EV	9318	0,137	68015	68301±3573
	8785	0,122	72008	
	8629	0,133	64880	
H9-E+LTA _g	61630	0,162	380432	330797±43636
	47755	0,160	298469	
	46710	0,149	313490	
LTA _g				P=0.0005 (4.8x)
UF1-E+EV	44784	0,250	179136	161113±17953
	45394	0,282	160972	
	42253	0,295	143231	
UF1-E+LTA _g	50968	0,246	207187	228217±18642
	68687	0,283	242710	
	57045	0,243	234753	
LTA _g				P=0.0109 (1.4x)

plasmid	LUC	Prot	LUC/prot	Average±SD
H9-E+EV	12279 13077 9742	0,190 0,173 0,148	64626 75590 65824	68680±6014
H9-E+LTA _g	147342 104549 100081	0,183 0,241 0,161	805148 433813 621621	620194±185672
LTA _g				P=0.0068 (9.0x)
UF1-E	4206 4655 4129	0,198 0,214 0,221	21242 21752 18683	20559±1645
UF1-E+LTA _g	38814 45311 41244	0,197 0,190 0,157	197025 238479 262701	232735±33213
LTA _g				P=0.7160 (1.0x)

Effect HPyV9 LTA_g on **H9-L** and **UF1-L** promoters in **HeLa** cells

plasmid	LUC	Prot conc	LUC/prot	Average±SD
H9-L+EV	49243	0,388	126915	144364±20255
	61564	0,441	139601	
	73793	0,443	166576	
H9-L+LTA _g	113079	0,257	439996	413311±68559
	159329	0,343	464516	
	148592	0,443	335422	
LTA _g				P=0.0029 (2.9x)
UF1-L+EV	30553	0,433	70561	70657±8373
	33971	0,545	62332	
	33450	0,423	79078	
UF1-L+LTA _g	525728	0,341	1541724	1615167±68425
	709223	0,436	1626658	
	597054	0,356	1677118	
LTA _g				P=0.0001 (22.9x)

plasmid	LUC	Prot conc	LUC/prot	Average±SD
H9-L+EV	4722	0,440	10732	9943±979
	4100	0,400	10250	
	4450	0,503	8847	
H9-L+LTA _g	117883	0,625	188613	258458±72035
	165269	0,650	254260	
	119700	0,360	332500	
LTA _g				P=0.0039 (2.9x)
UF1-L+EV	13929	0,151	92245	62251±26956
	7896	0,145	54455	
	7770	0,194	40052	
UF1-L+LTA _g	575011	0,179	3212352	3169334±943410
	621756	0,152	4090500	
	729905	0,331	2205151	
LTA _g				P=0.0047 (50.9x)

plasmid	LUC	prot	LUC/prot	Average±SD
H9-L+EV	11128 7175 9897	0,103 0,084 0,088	108039 85417 112466	101974±14509
H9-L+LTA _g	26093 15124 17259	0,121 0,113 0,097	215645 133841 177928	175805±40943
LTA _g				P=0.0422 (1.7x)
UF1-L+EV	8674 6907 7831	0,181 0,220 0,155	47923 31395 50523	43280±10375
UF1-L+LTA _g	166997 288318 212557	0,169 0,177 0,158	988148 1628915 1345297	1320787±321086
LTA _g				P=0.0023 (31x)

plasmid	LUC	protein	LUC/prot	Average±SD
H9-L+EV	5293 4226 4048	0,088 0,082 0,079	60148 51537 51241	54309±5059
H9-L+LTA _g	15106 10482 14818	0,145 0,090 0,099	104179 116467 149677	123441±23537
LTA _g				P=0.0076 (2.3x)
UF1-L+EV	3682 3936 3765	0,094 0,085 0,083	39170 46306 45361	43612±3876
UF1-L+LTA _g	172326 170863 217762	0,116 0,108 0,112	1485569 1582065 1944304	1670646±241856
LTA _g				P=0.0003 (38x)

Effect of mutation of the Sp1 sites

Transfection 06.09.2017: UF1-E and mutUF1-E in HeLa

plasmid	LUC	prot	LUC/prot	Average±SD
UF1-E+EV	16250	0,223	72870	69602±5423
	12795	0,202	63342	
	16261	0,224	72594	
UF1-E+LTA _g	39201	0,200	196005	203070±8016
	34944	0,165	211782	
	39076	0,194	201423	
UF1-E vs mutUF1-E				P=0.0007
EV vs LTA _g				P=0.0001 (2.9x)
mUF1-E+EV	24350	0,211	115403	117386±7073
	24422	0,219	111516	
	23670	0,189	125238	
mUF1-E+LTA _g	57555	0,215	267698	263163±38611
	44942	0,202	222485	
	53875	0,180	299306	
EV vs LTA _g				P=0.0030 (2.2x)

Transfection 06.09.2017: UF1-L and mutUF1-L in HeLa

plasmid	LUC	protein	LUC/prot	Average±SD
UF1-L+EV	9146	0,154	59390	54452±4348
	10495	0,205	51195	
	8338	0,158	52772	
UF1-L+LTA _g	482715	0,178	2711882	2372769±398393
	395586	0,160	2472413	
	330716	0,171	1934012	
UF1-L vs mutUF1-L				P=0.0641 (ns)
LTA _g				P=0.0005 (44x)
mutUF1-L+EV	17254	0,138	125029	94166±26742
	11293	0,145	77883	
	10346	0,130	79585	
mutUF1-L+LTA _g	90909	0,158	575373	573791±101653
	107943	0,160	674644	
	63633	0,135	471356	
LTA _g				P=0.0014 (6.1x)

Transfection HeLa 08.09.2017

Early

plasmid	LUC	protein	LUC/prot	Average±SD
UF1-E+EV	20366	0,117	174068	158675±16266
	21480	0,134	160299	
	18982	0,134	141657	
UF1-E+LTA _g	23635	0,126	187579	207056±17443
	20598	0,097	212351	
	23230	0,105	221238	
UF1-E vs mutUF1-E				P=0.7806
EV vs LTA _g				P=0.0246 (1.3x)
mutUF1-E+EV	15203	0,088	172761	154467±18271
	15442	0,100	154420	
	13077	0,096	136219	
mutUF1-E+LTA _g	23791	0,082	290134	271161±28038
	27015	0,094	287394	
	21745	0,091	238956	
UF1-E vs mutUF1-E				P=0.7806
EV vs LTA _g				P=0.0038 (1.8x)

Late

plasmid	LUC	protein	LUC/prot	Average±SD
UF1-L+EV	7894	0,117	67470	62790±5507
	6523	0,115	56722	
	7509	0,117	64179	
UF1-L+LTA _g	155364	0,118	1316644	1642526±359965
	284047	0,140	2028907	
	223066	0,141	1582028	
UF1-L vs mutUF1-L				P=0.0020
EV vs LTA _g				P=0.0016 (26x)
mutUF1-L+EV	19324	0,117	165162	144758±18948
	14815	0,116	127716	
	14988	0,106	141396	
mutUF1-L+LTA _g	31129	0,089	349764	412543±98517
	55505	0,107	518738	
	30792	0,095	324126	
EV vs LTA _g				P=0.0099 (2.8x)

Transfection HeLa 13.09.2017

Early

plasmid	LUC	protein	LUC/prot	Average±SD
UF1-E+EV	22693 16286 21990	0,107 0,102 0,133	212084 159667 165338	179030±28766
UF1-E+LTA _g	15729 21012 24778	0,088 0,110 0,149	178739 191018 166295	178684±12362
UF1-E vs mutUF1-E				P=0.0513
EV vs LTA _g				P=0.9857 (0.998x)
mutUF1-E+EV	13195 10991 11531	0,093 0,101 0,090	141882 108822 128122	126275±16607
mutUF1-E+LTA _g	34252 19590 24957	0,129 0,099 0,097	265519 197879 257289	240229±36906
EV vs LTA _g				P=0.0082 (1.9x)

Late

plasmid	LUC	protein	LUC/prot	Average±SD
UF1-L+EV	7732 6295 6503	0,109 0,111 0,090	70936 56712 72256	66635±8619
UF1-L+LTA _g	209056 202895 212890	0,129 0,099 0,097	1620589 2049444 2194742	1954925±298519
UF1-L vs mutUF1-L				P=0.0650
EV vs LTA _g				P=0.0004 (29x)
mutUF1-L+EV	15531 9281 12672	0,100 0,105 0,115	155310 88390 110191	117964±34131
mutUF1-L+LTA _g	56053 81420 51723	0,098 0,116 0,089	571969 701897 581157	618341±72507
EV vs LTA _g				P=0.0004 (5.2x)

Transfection 15092017; HeLa cells; early promoter

plasmid	LUC	protein	LUC/prot	Average±SD
UF1-E+EV	9750	0,089	109551	81600±24897
	8590	0,139	61799	
	8300	0,113	73451	
UF1-E+LTA _g	6754	0,087	77632	82050±4269
	6754	0,082	82366	
	6203	0,072	86153	
mutUF1-E+EV	5192	0,064	81125	85731±9092
	5271	0,066	79864	
	5195	0,054	96204	
mutUF1-E+LTA _g	2481	0,055	45109	43609±1621
	2542	0,058	43828	
	3016	0,072	41889	
UF1-E vs mutUF1-E				P=0.8006
LTA _g UF1-E				P=0.9769 (1.0x)
LTA _g mutUF1-E				P=0.0014 (0.5x)

Late promoter

plasmid	LUC	protein	LUC/prot	Average±SD
UF1-L+EV	1945	0,065	29923	30428±900
	1888	0,060	31467	
	1704	0,057	29895	
UF1-L+LTA _g	46663	0,081	576086	606604±163901
	34508	0,075	460107	
	55637	0,071	783620	
mutUF1-L+EV	5322	0,073	72904	59953±12624
	3734	0,063	59270	
	3624	0,076	47684	
mutUF1-L+LTA _g	9875	0,063	156746	167408±14693
	9356	0,058	161310	
	13076	0,071	184169	
UF1-L vs mutUF1-L				P=0.0156
LTA _g UF1-L				P=0.0037 (20x)
LTA _g mutUF1-L				P=0.0007 (2.8x)