

Table S1. RNA isolation metrics

Detailed RNA sample information for the *in-vitro* experiment (A) and the *in-vivo* experiment (B).

A <i>In-vitro</i> MEF exposure							B <i>In-vivo</i> skin exposure							
Sample	Dose UV-C (J/m <sup>2</sup> )	Recovery time (hours)	rRNA (ng/ul)	RIN value	mRNA ng/ul	Array	Sample Mouse	Recovery time (hours)	Dose UV-B (J/m <sup>2</sup> )	rRNA ng/ul	RIN	mRNA ng/ul	Array	
36	0	0	40.05	10	695.61	448431A12	46	5	0	234.07	8.1	307.52	527442A01	
25	0	0.17	38.78	9.6	606.97	448431A01	22	5	3	79.58	7.4	274.96	527372A01	
19	0	0.5	42.25	9.6	629.11	447355A07	1	5	9	105.96	7.5	403.6	526839A01	
10	0	1	40.7	10	636.16	447333A10	19	5	24	141.92	7.3	350.88	527334A10	
11	0	3	43.9	10	787.2	447333A11	34	5	48	72.46	6.9	238	527374A01	
37	0	6	51.77	10	616.65	448536A01	27	6	0	122.78	8.2	165.84	527372A06	
20	0	12	70.37	9.8	592.6	447355A08	11	6	1	136.79	8.1	283.12	527334A02	
3	0	24	139.75	10	572.56	447333A03	42	6	6	215.69	7.7	328.48	527374A09	
46	0	48	231.13	9.5	412.83	448536A10	9	6	12	248.96	8.2	233.04	526839A09	
26	0.25	0.5	38.8	9.6	545.39	448431A02	52	6	48	129.96	7.4	177.2	527442A07	
45	0.25	1	45.85	9.9	770.15	448536A09	4	7	0	178.19	8.6	126.32	526839A04	
27	0.25	3	47.41	9.9	668.3	448431A03	12	7	3	121.41	7.4	172	527334A03	
43	0.25	6	39.04	10	573.75	448536A07	43	7	9	115.7	8.0	292.4	527374A10	
15	0.25	10	39.27	9.9	504.25	447355A03	55	7	24	155.61	8.7	424.88	527442A10	
4	0.25	12	74	10	571.87	447333A04	30	7	48	104.54	8.2	277.84	527372A09	
22	0.25	24	121.06	10	605.48	447355A10	29	8	0	117.99	9.0	108.16	527372A08	
5	0.25	48	263.89	10	622.86	447333A05	58	8	1	62.86	7.7	37.52	527334A11	
6	0.75	0.17	35.6	9.8	546.19	447333A06	20	8	6	157.97	7.9	419.76	527334A11	
48	0.75	0.5	41.99	9.3	455.29	448536A12	49	8	12	115.99	7.3	304.4	527442A04	
21	0.75	1	43.97	9.9	587.26	447355A09	40	8	48	92	7.8	322.56	527374A07	
47	0.75	3	49.29	10	637.41	448536A11	58	9	0	102.34	8.7	41.36	527372A04	
16	0.75	6	42.23	10	663.57	447355A04	25	9	3	180	191.56	7.9	281.68	527372A04
31	0.75	12	68.47	10	606.73	448431A07	17	9	9	180	190.63	7.7	426.08	527334A08
12	0.75	24	125.27	10	831.93	447333A12	39	9	24	180	117.45	8.3	374	527374A06
34	0.75	48	274.03	10	614.49	448431A10	53	9	48	180	151.17	7.9	379.52	527442A08
9	2.25	0.17	25.2	10	307.97	447333A09	47	10	0	139.22	8.7	328.64	527442A02	
40	2.25	0.5	44.01	10	747.89	448536A04	38	10	1	180	111.57	8.2	464.88	527374A05
17	2.25	3	48.18	9.8	763.07	447355A05	32	10	6	180	118.51	7.2	424.08	527372A11
30	2.25	6	53.82	9.9	570.79	448431A06	21	10	12	180	84.21	6.8	317.04	527334A12
39	2.25	12	68.38	10	575.98	448536A03	3	10	48	180	85.98	7.0	307.36	526839A03
13	2.25	24	128.85	10	717.27	447355A01	10	11	0	179.86	9.0	325.2	527334A01	
35	2.25	48	232.55	9.1	656.41	448431A11	44	11	3	360	142.98	8.8	334	527374A11
29	6.7	0.17	39.93	9.7	518.55	448431A05	23	11	9	360	162.81	7.5	350.32	527372A02
7	6.7	0.5	39.38	9.9	585.01	447333A07	8	11	24	360	146.81	8.7	287.04	526839A08
2	6.7	1	41.18	10	784.67	447333A02	50	11	48	360	167.58	8.0	384.96	527442A05
42	6.7	3	44.09	9.4	651.1	448536A06	35	12	0	85.9	8.4	293.6	527374A02	
28	6.7	6	57.23	9.4	558.46	448431A04	54	12	1	360	111.46	7.8	301.76	527442A09
24	6.7	12	54.41	10	607.17	447355A12	5	12	6	360	99.52	7.5	352.32	526839A05
44	6.7	24	115.51	10	587.45	448536A08	28	12	12	360	111.96	7.6	391.44	527372A07
18	6.7	48	184.63	10	671.64	447355A06	16	12	48	360	121.4	6.8	304.56	527334A07
41	20	0.17	41.53	10	570.63	448536A05	6	13	0	119.79	8.1	172.32	526839A06	
14	20	0.5	42.18	10	633.77	447355A02	48	13	3	540	139.17	7.0	321.12	527442A03
38	20	1	44.91	9.6	539.92	448536A02	45	13	9	540	108.84	7.0	444.16	527374A12
1	20	3	36.84	10	394.29	447333A01	26	13	24	540	128.71	8.2	381.12	527372A05
8	20	6	47.66	9.3	527.46	447333A08	13	13	48	540	235.67	8.7	318.64	527334A04
32	20	12	33.04	9.4	721.5	448431A08	18	14	0	113.11	8.3	152.24	527334A09	
33	20	24	48.81	10	645.08	448431A09	2	14	1	540	327.78	8.9	267.84	526839A02
23	20	48	51.51	10	747.69	447355A11	51	14	6	540	125.14	7.6	383.92	527442A06
							41	14	12	540	103.24	7.7	384.16	527374A08
							31	14	48	540	116.9	7.1	305.12	527372A10
							14	15	0	172.74	8.5	210.72	527334A05	
							7	15	3	720	141.55	8.2	293.28	526839A07
							56	15	9	720	99.31	8.6	417.68	527442A11
							24	15	24	720	137.65	7.7	412.8	527372A03
							37	15	48	720	197.32	8.0	380.32	527374A04
							36	16	0	178.48	8.3	335.12	527374A03	
							33	16	1	720	126.91	7.9	405.84	527372A12
							57	16	6	720	125.67	7.6	383.52	527442A12
							58	16	12	720	63.31	7.0	47.12	527372A06
							15	16	48	720	209.9	7.4	274.32	527334A06