

# **Regulation of Nuclear Receptor genes in NHDF cells treated with Metadichol**

**Primer Details:**

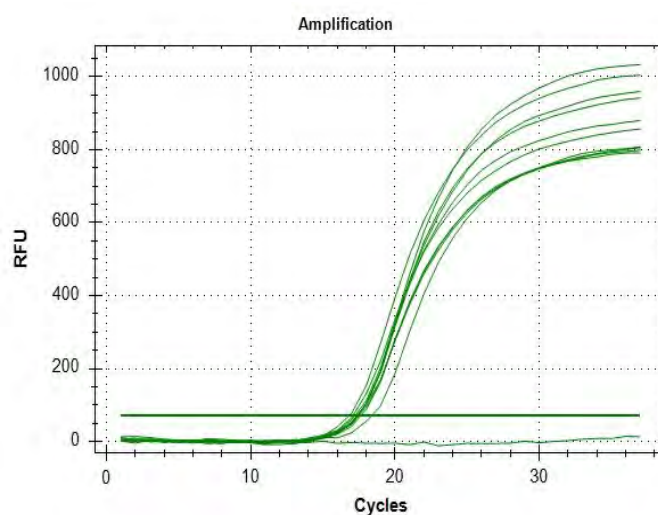
Primer	Nucleotide	Base pair
NR1B2	CCCCAGAACAAGACACCATG	160
	GCACTGAGAAGGCCTGTTTC	
NR1C2/PPARD	CCTTCTCAAGTATGGCGTGC	226
	GATGGCCGCAATGAATAGGG	
NR1D1/Rev-Erba	GCTGGTGAAGACATGACGAC	168
	GAAGTAGGTGGGACAGCCTTG	
NR1F3	CGTTTTGAGGAACACAGGCA	209
	GAGAAGATGTTGGAGCGCTG	
NR2B2/RXRB	GCAGGAGTAGGAGCCATCTT	188
	GCATACACTTTCTCCCGCAG	
NR2C2	TCACCACCTCAGACAACCTC	164
	ACTGACAGCCCCATAGTGAC	
NR2E3	GGAGTCCAACACTGAGTCCC	289
	GGCCATGAAGAGTAGGCGAG	
NR1D2	AGTTCTTCCAGCTCAGCCTC	226
	TTGTCATCCCAGGTGCACTC	
NR1F2/ROR beta	CTCACTTCTCCACCTGCTCA	212
	GGAGTTGGTGGCTGGGATAT	
NR1H1/VDR	CTCTGTTGTGTCCTGTTGCC	155
	CTTCTCCCTTTGCGTGTTCC	
NR2B1/RXR alpha	CTCTGTTGTGTCCTGTTGCC	155
	CTTCTCCCTTTGCGTGTTCC	
NR2F6	GGACTCTGGCTTCTCTCCTC	187
	TAGGGGTGCTGAGGAACAAG	
NR3B1/EsRRA	CAGGGGAGCATCGAGTACAG	303
	CTTCTCAGGCTCAACCACCA	
NR5A2	CTAGAAGCTGTAAGGGCCGA	164
	AGGTCAGAGGGCATAGCTTG	
NR1B3	AATTGACCCCTTCCTCCAGG	166
	GTAAACAGAGGGGAGGGGAC	
NR1H3/LXR alpha	GAGATCCTCCCGTGGCATT	151
	GAGAACCCTGTGCAAAGTGG	
NR2F1	CATTTTTGGGCGATCTCCAGG	261
	GCCTTCTTCTTTCGGGAGGT	
NR2F2	CTCAACTGCCACTCGTACCT	253
	TCAACACAAACAGCTCGCTC	
NR3B3/ERR3	CCAGCTGTTCTGTCCTTCATC	177
	CCAGGATAGGAGCAGAAGGG	
NR3C3	AGGGAATAGAATGTGGTGGC	173

	ATTTTCCATTTGGTGAAGCCAT	
NR1I3	CAGCAAACACCTGTGCAACT	189
	TGCGAAGTGTGTGACCAGAG	
NR6A1/SLC16A1	GAGGAACAGGTGCCAGTACT	175
	GGCCTCTTCCTCAAACCTCCT	
NR4A1/NUR77	GCCAATCTCCTCACTTCCCT	202
	CAGCAAAGCCAGGGATCTTC	
NR1A1/THRA	ACCTCCATCCCACCTATTCC	242
	CTCTTCAGGAGTGGGCTCTG	
NR2C1	CCCAAGGCAAGCAGTTCATT	157
	GCAGACAGATCAGGAGTGGT	
NR1A2/THRB	GCCTCCAATAGCTCCAGGAT	201
	CACCCAGTTCCAGGATTCCCT	
NR1C1/PPARalpha	CTGTCTGCTCTGTGGACTCA	247
	AGAACTATCCTCGCCGATGG	
NR1F1/RORA	TCGAACCAGTAGAAACCGCT	219
	TTGGCCGAGATGTTGTAGGT	
NR1H4	AACAGAACAAGTGGCAGGTC	201
	AGAGTCTCAGCTGGCATAACG	
NR2A1/HNF4A	CCCGAGAAAACAAACCCAGG	217
	CCCTCTCCCACACCATTCTT	
NR2A2/HNF4G	GGTTCCAAGTGCAGATCGGT	300
	CCAGTGTTGACATGGGACCT	
NR2E1	CAAGTGGGCTAAGAGTGTGC	158
	CGTTCATGCCAGATACAGCC	
NR4A2	CCGGTGTCTAGTTGCCAGAT	275
	ACGCCGTAGTGTTGGCAG	
NR0B1	CAGAGGCCAGGGGGTAAAG	137
	TGCGCTTGATTTGTGCTCGT	
NR3A2	GAGTCTGGTCGTGTGAAGGA	218
	ACTTCTCTGTCTCCGCACAA	
NR2E1	CAAGTGGGCTAAGAGTGTGC	158
	CGTTCATGCCAGATACAGCC	
NR3C1	GCTGTAGTAGCCCTTTCTGTGT	233
	AGCCCTTCCCTTCCCAGATTA	
NR3C2	CTGCCTCGTTTCCCTTTTCC	231
	CCATGATCTGTGCGTTCCTG	
NR3C4	TTGCATGTACGCCCCACTTT	261
	AGTGCTCCGGACTIONGTAGAGA	
NR3B2	AAGCAGGGATCAGAGCAACT	218
	TCACTCGCAGCAACACTAGA	
NR1B1	GTCTGCCTCCCTTCTGACTG	235
	GAAGTGTGCTCTGGGTCTC	
NR5A1	CGGACACTCGCCTACTAAGT	220

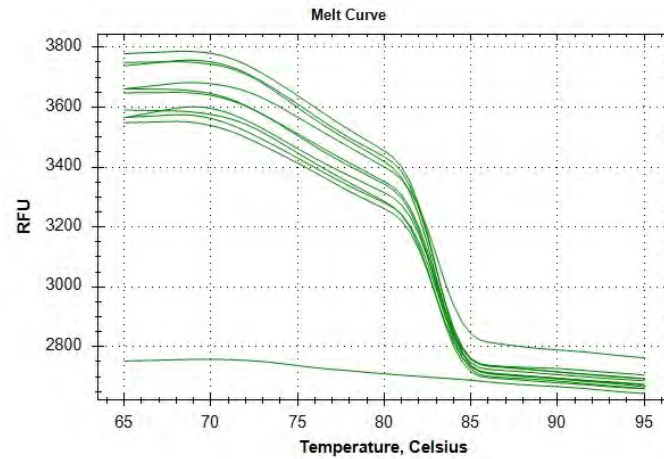
	ACAGAGAGGGGATCAACAGC	
NR1H2R	TCCCCAGCTTACACCTCAAG	197
	CCTCTCCATCTTGCACTCCA	
NR3A1	ACTCAACAGCGTGTCTCCG	184
	ACCCTGGCGTCGATTATCTG	
NR1C3	TTGCAGTGGGGATGTCTCAT	208
	TTTCCTGTCAAGATCGCCCT	

### Results:

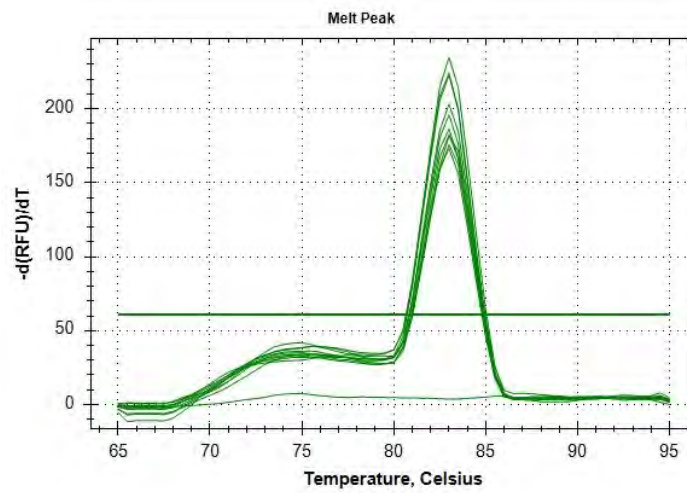
Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq	Mean Cq
SYBR	NR1B2	Unkn	Control	cDNA	17.25	17.54	17.40
SYBR	NR1B2	Unkn	1pg	cDNA	16.86	17.11	16.98
SYBR	NR1B2	Unkn	100pg	cDNA	17.43	17.41	17.42
SYBR	NR1B2	Unkn	1ng	cDNA	17.39	17.68	17.54
SYBR	NR1B2	Unkn	100ng	cDNA	17.44	18.40	17.92
SYBR	NR1B2	NTC	NTC	NTC	N/A	N/A	N/A



**Figure 1.1: NR1B2 Amplification curve**



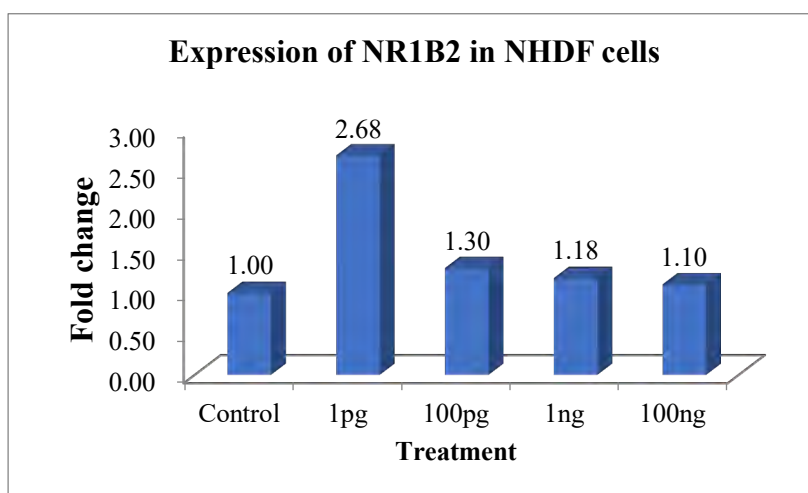
**Figure 1.2: NR1B2 melt curve**



**Figure 1.3: NR1B2 melt peak**

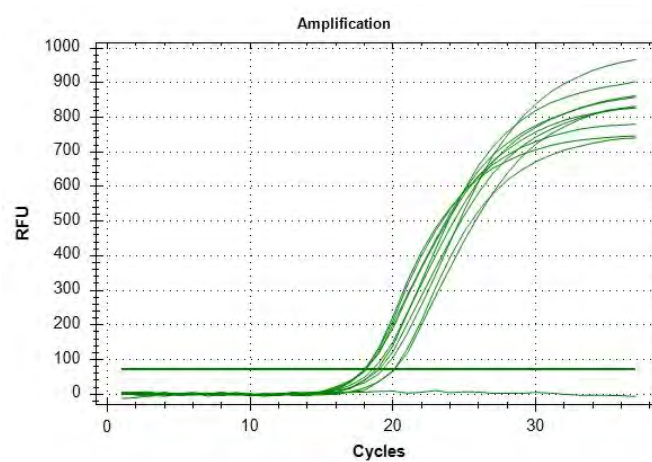
**Table 1: Relative expression of NR1B2 gene in NHDF cells**

Sample	Actin	NR1B2	Delta ct	Delta Delta ct	Fold change $2^{\Delta\Delta ct}$
Control	20.46	17.40	-3.06	0.0	1.00
1pg	21.47	16.98	-4.49	-1.4	2.68
100pg	20.87	17.42	-3.45	-0.4	1.30
1ng	20.84	17.54	-3.30	-0.2	1.18
100ng	21.13	17.92	-3.21	-0.1	1.10

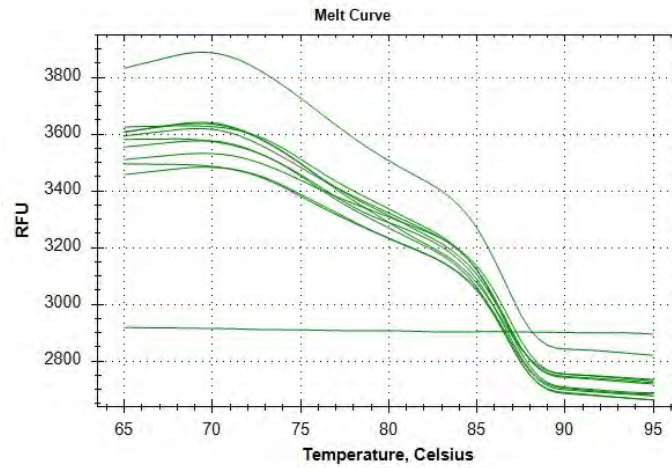


**Graph 1: Relative expression of NR1B2 in NHDF cells**

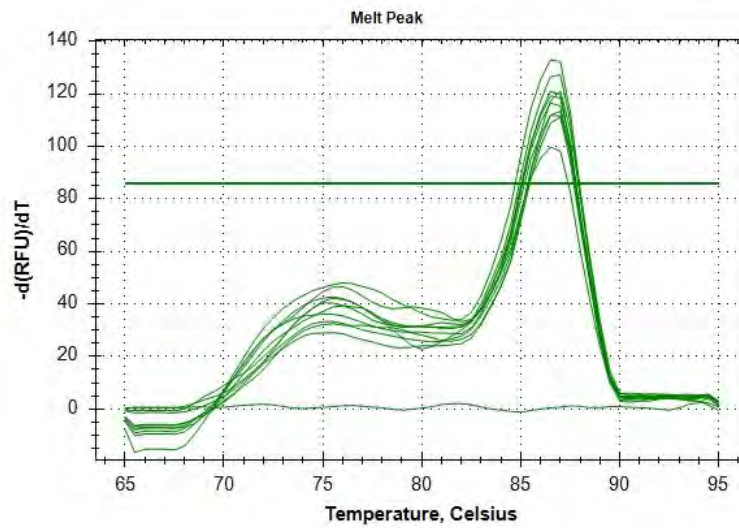
Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq	Mean Cq
SYBR	NR1C2	Unkn	Control	cDNA	19.30	19.05	19.18
SYBR	NR1C2	Unkn	1pg	cDNA	18.12	18.05	18.88
SYBR	NR1C2	Unkn	100pg	cDNA	18.17	18.36	18.21
SYBR	NR1C2	Unkn	1ng	cDNA	18.02	18.08	18.05
SYBR	NR1C2	Unkn	100ng	cDNA	20.09	20.11	20.10
SYBR	NR1C2	NTC	NTC	NTC	N/A	N/A	N/A



**Figure 2.1: NR1C2 Amplification curve**



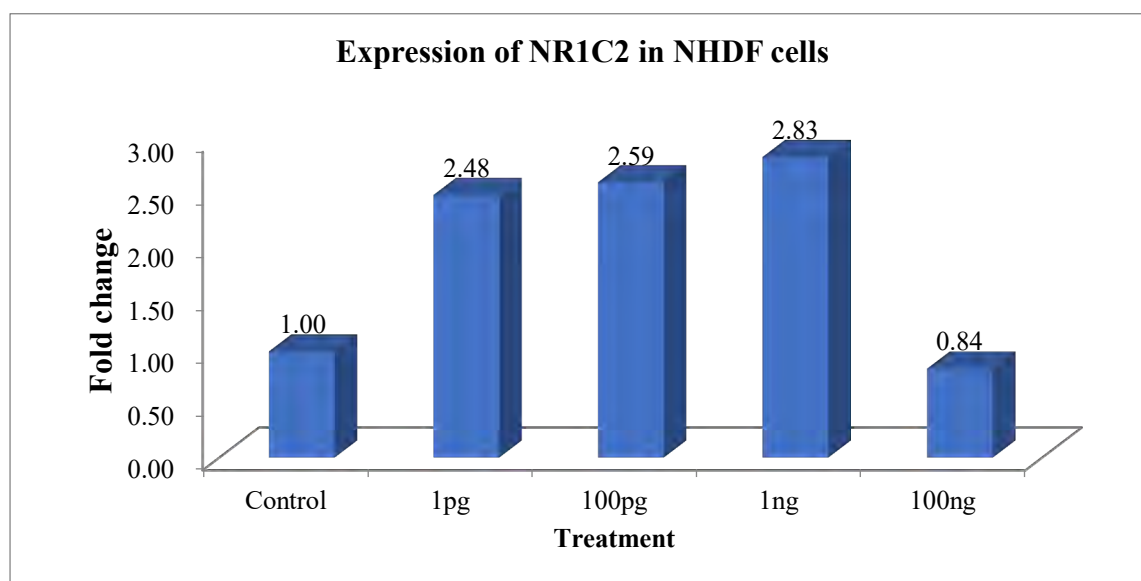
**Figure 2.2: NR1C2 melt curve**



**Figure 2.3: NR1C2 melt peak**

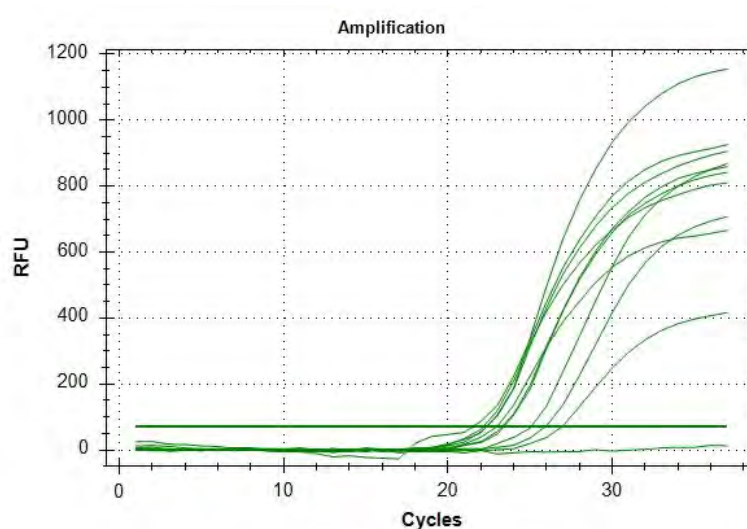
**Table 2: Relative expression of NR1C2 gene in NHDF cells**

Sample	Actin	NR1C2	Delta ct	Delta Delta ct	Fold change $2^{\Delta\Delta Ct}$
<b>Control</b>	20.46	19.18	-1.28	0.00	1.00
1pg	21.47	18.88	-2.59	-1.31	2.48
100pg	20.87	18.21	-2.66	-1.38	2.59
1ng	20.84	18.05	-2.79	-1.50	2.83
100ng	21.13	20.10	-1.03	0.26	0.84



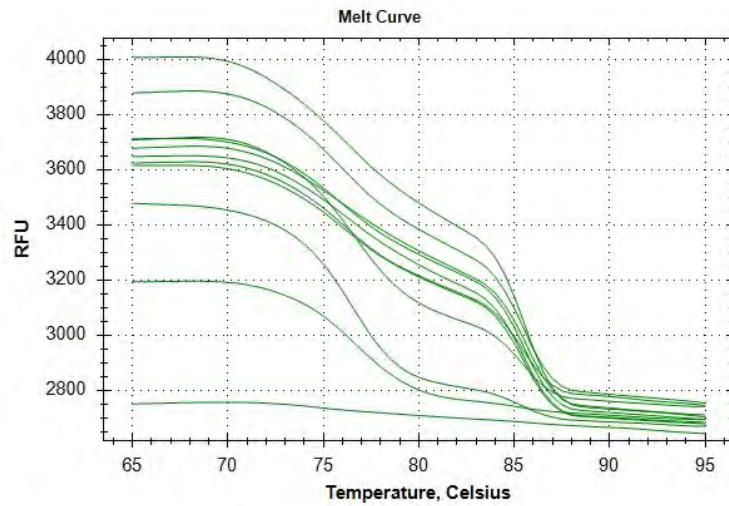
Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq	Mean Cq
SYBR	NR1D1	Unkn	Control	cDNA	22.37	22.18	22.27
SYBR	NR1D1	Unkn	1pg	cDNA	23.02	22.38	22.70
SYBR	NR1D1	Unkn	100pg	cDNA	21.57	25.09	23.33
SYBR	NR1D1	Unkn	1ng	cDNA	26.98	25.98	26.48
SYBR	NR1D1	Unkn	100ng	cDNA	23.42	23.31	23.37
SYBR	NR1D1	NTC	NTC	NTC	N/A	N/A	N/A

**Graph 2: Relative expression of NR1C2 in NHDF cells**

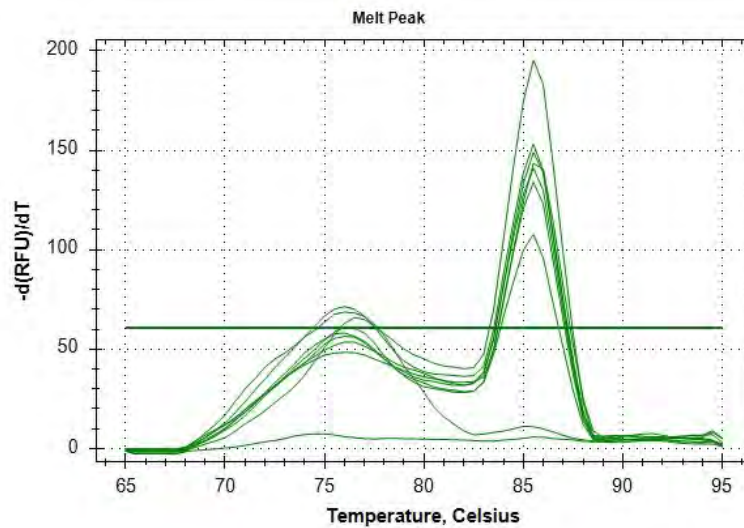


**Figure 3.1: NR1D1 Amplification curve**





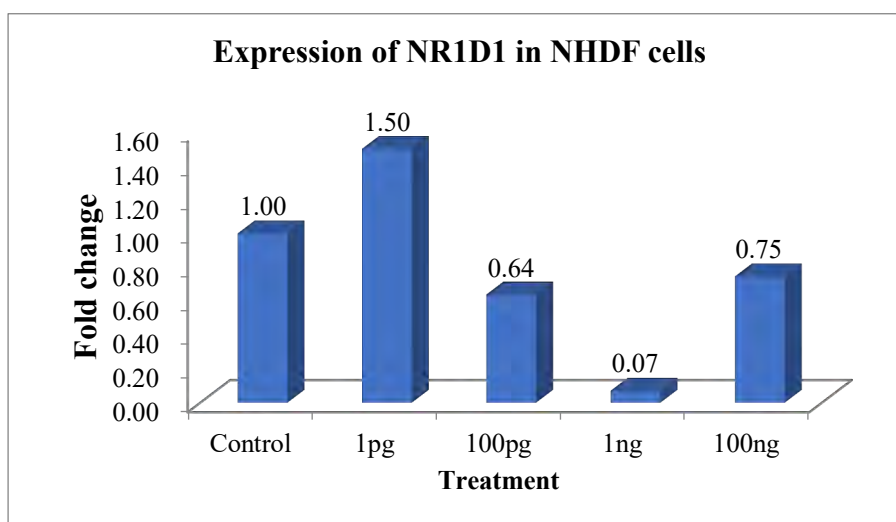
**Figure 3.2: NR1D1 melt curve**



**Figure 3.3: NR1D1 melt peak**

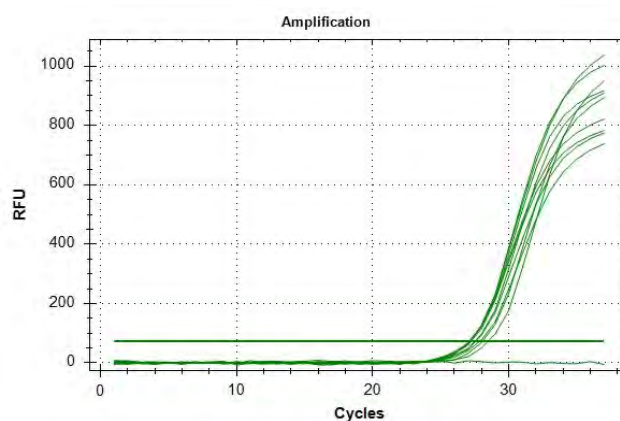
**Table 3: Relative expression of NR1D1 gene in NHDF cells**

Sample	Actin	NR1D1	Delta ct	Delta Delta ct	Fold change $2^{\Delta\Delta ct}$
Control	20.46	22.27	1.81	0.0	1.00
1pg	21.47	22.70	1.23	-0.6	1.50
100pg	20.87	23.33	2.46	0.6	0.64
1ng	20.84	26.48	5.64	3.8	0.07
100ng	21.13	23.37	2.24	0.4	0.75

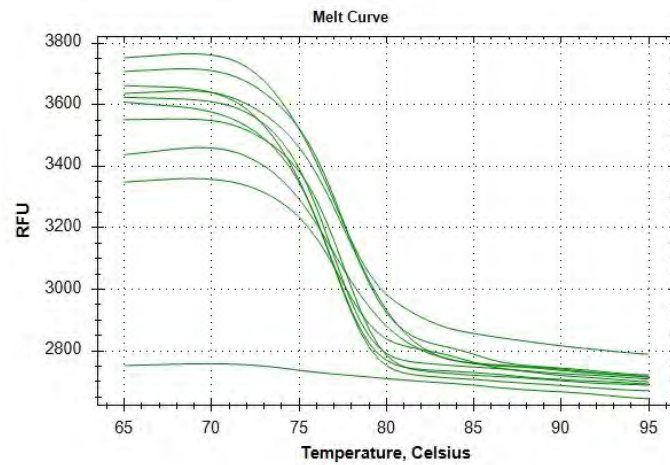


**Graph 3: Relative expression of NR1D1 gene in NHDF cells**

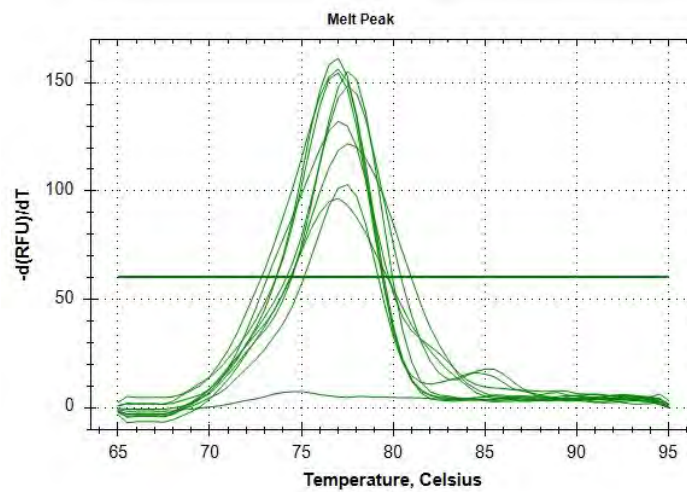
Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq	Mean Cq
SYBR	NR1F3	Unkn	Control	cDNA	27.18	27.21	27.19
SYBR	NR1F3	Unkn	1pg	cDNA	27.50	27.12	27.31
SYBR	NR1F3	Unkn	100pg	cDNA	27.08	28.07	27.57
SYBR	NR1F3	Unkn	1ng	cDNA	27.86	27.55	27.71
SYBR	NR1F3	Unkn	100ng	cDNA	27.15	28.47	27.81
SYBR	NR1F3	NTC	NTC	NTC	N/A	N/A	N/A



**Figure 4.1: NR1F3 Amplification curve**



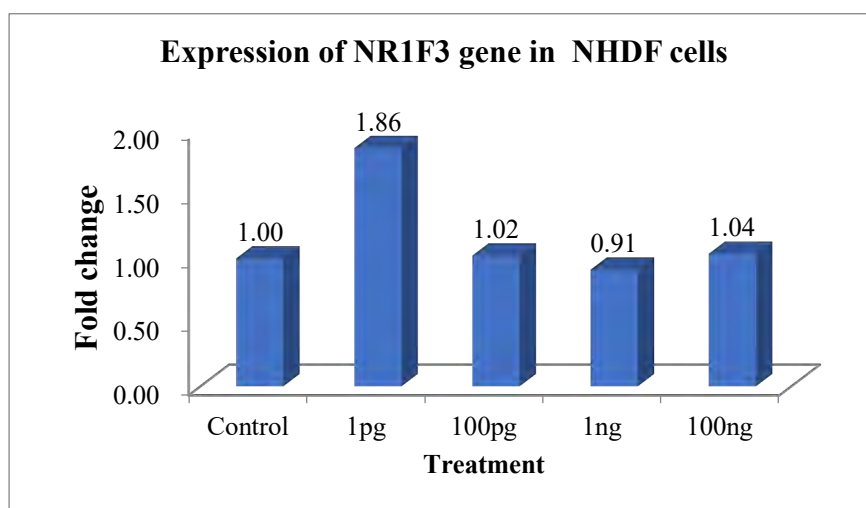
**Figure 4.2: NR1F3 melt curve**



**Figure 4.3: NR1F3 melt peak**

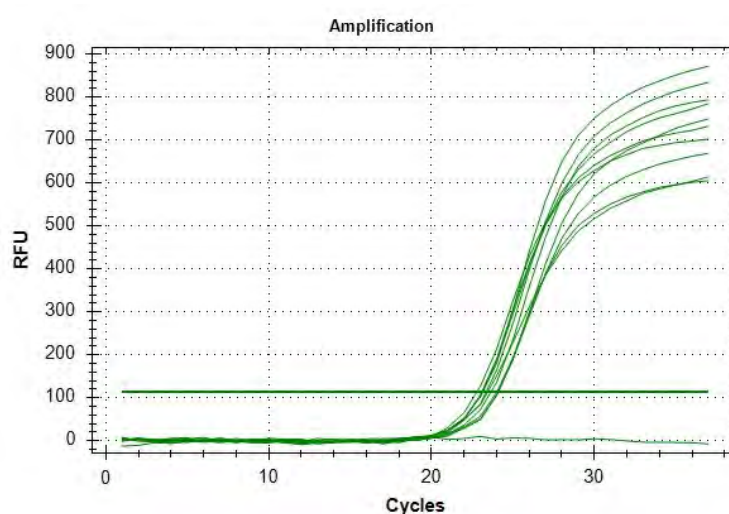
**Table 4: Relative expression of NR1F3 gene in NHDF cells**

Sample	Actin	NR1F3	Delta ct	Delta Delta ct	Fold change $2^{\Delta\Delta Ct}$
Control	20.46	27.19	6.73	0.00	1.00
1pg	21.47	27.31	5.84	-0.90	1.86
100pg	20.87	27.57	6.70	-0.03	1.02
1ng	20.84	27.71	6.87	0.13	0.91
100ng	21.13	27.81	6.68	-0.05	1.04

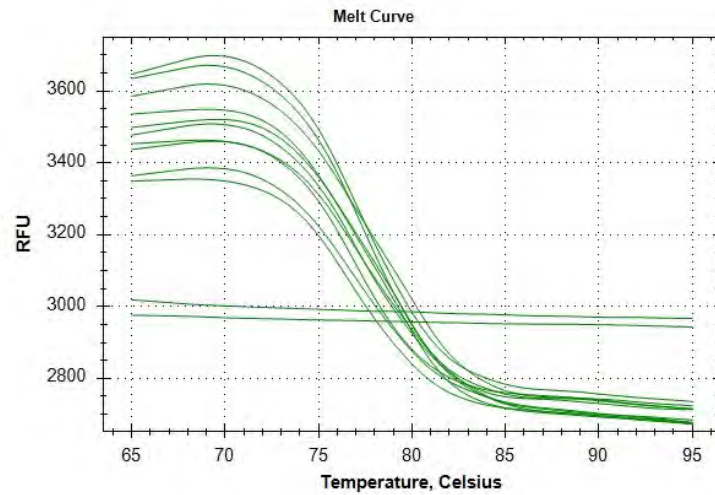


**Graph 4: Relative expression NR1F3 gene in NHDF cells**

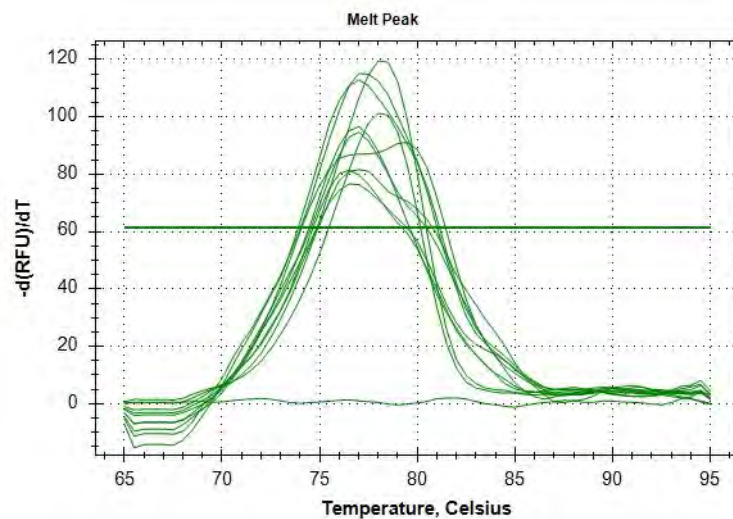
Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq	Mean Cq
SYBR	NR2B2	Unkn	Control	cDNA	22.64	23.38	23.01
SYBR	NR2B2	Unkn	1pg	cDNA	21.39	22.67	21.95
SYBR	NR2B2	Unkn	100pg	cDNA	22.41	23.00	22.70
SYBR	NR2B2	Unkn	1ng	cDNA	23.41	23.28	23.35
SYBR	NR2B2	Unkn	100ng	cDNA	22.38	22.12	22.25
SYBR	NR2B2	NTC	NTC	NTC	N/A	N/A	N/A



**Figure 5.1: NR2B2 Amplification curve**



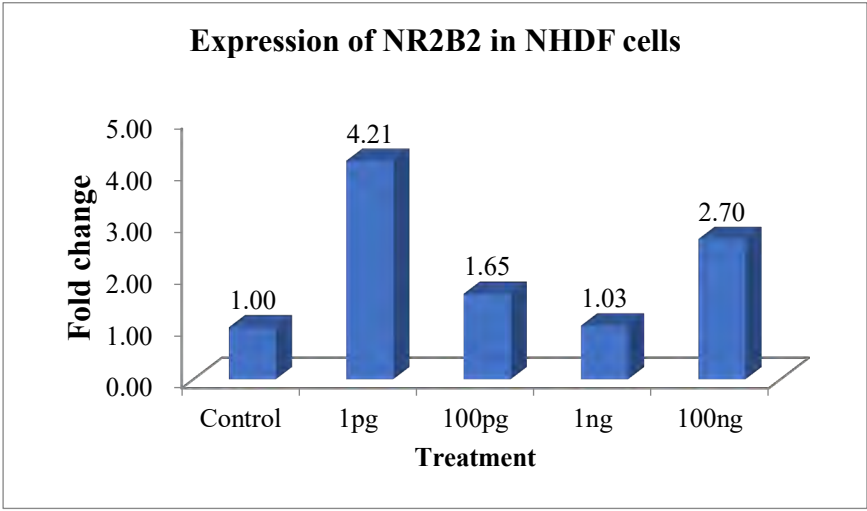
**Figure 5.2: NR2B2 melt curve**



**Figure 5.3: NR2B2 melt peak**

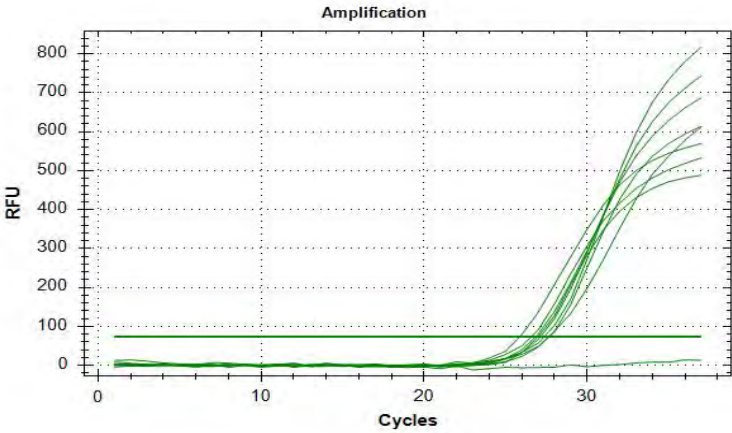
**Table 5: Relative expression of NR2B2 gene in NHDF cells**

Sample	Actin	NR2B2	Delta ct	Delta Delta ct	Fold change $2^{\Delta\Delta Ct}$
Control	20.46	23.01	2.55	0.00	1.00
1pg	21.47	21.95	0.48	-2.07	4.21
100pg	20.87	22.70	1.83	-0.72	1.65
1ng	20.84	23.35	2.51	-0.05	1.03
100ng	21.13	22.25	1.12	-1.43	2.70



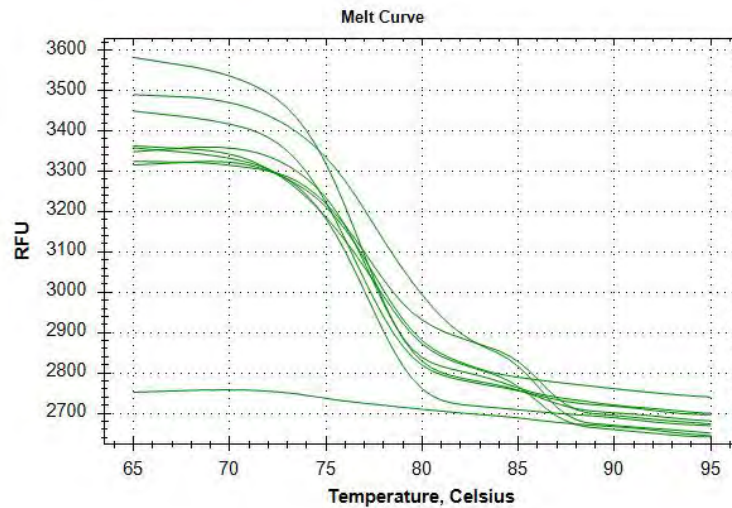
**Graph 5: Relative expression NR2B2 gene in NHDF cells**

Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq	Mean Cq
SYBR	NR2C2	Unkn	Control	cDNA	26.65	27.62	27.13
SYBR	NR2C2	Unkn	1pg	cDNA	26.27		26.27
SYBR	NR2C2	Unkn	100pg	cDNA	27.35	26.82	27.08
SYBR	NR2C2	Unkn	1ng	cDNA	27.12	27.64	27.38
SYBR	NR2C2	Unkn	100ng	cDNA	25.85	25.64	25.74
SYBR	NR2C2	NTC	NTC	NTC	N/A	N/A	N/A

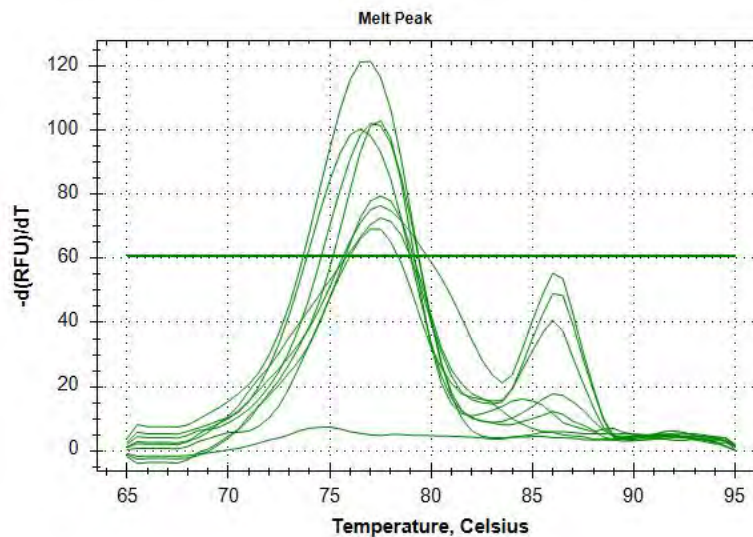


**Figure 6.1: NR2C2 Amplification curve**





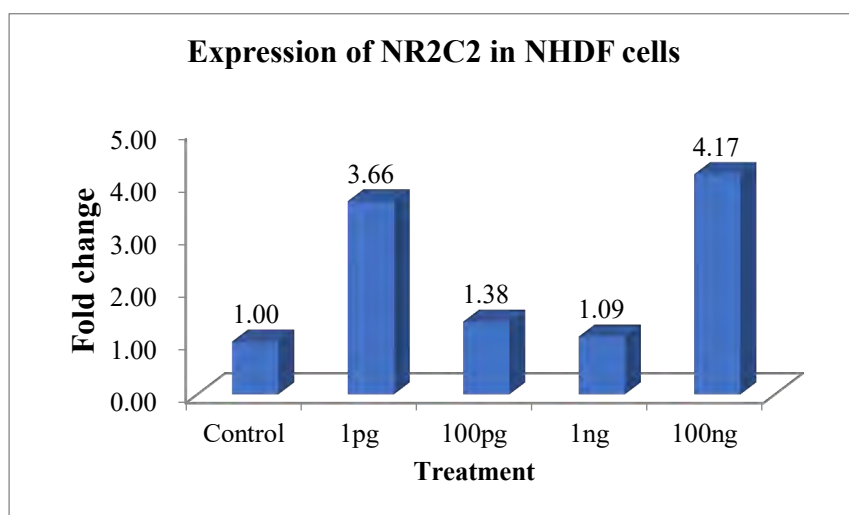
**Figure 6.2: NR2C2 melt curve**



**Figure 6.3: NR2C2 melt peak**

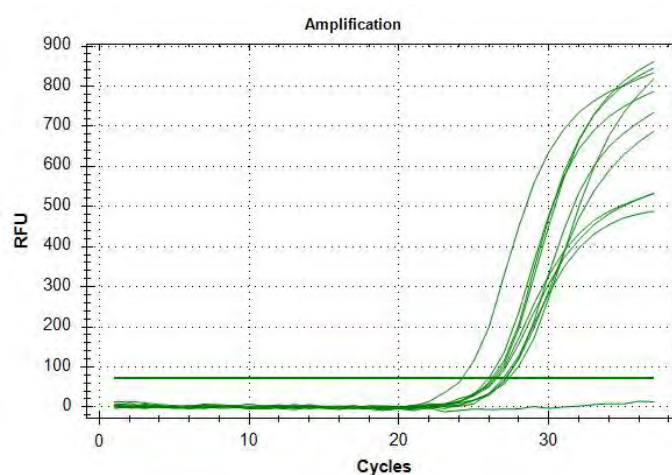
**Table 6: Relative expression of NR2C2 gene in NHDF cells**

Sample	Actin	NR2C2	Delta ct	Delta Delta ct	Fold change $2^{\Delta\Delta ct}$
Control	20.46	27.13	6.67	0.00	1.00
1pg	21.47	26.27	4.80	-1.87	3.66
100pg	20.87	27.08	6.21	-0.46	1.38
1ng	20.84	27.38	6.54	-0.13	1.09
100ng	21.13	25.74	4.61	-2.06	4.17



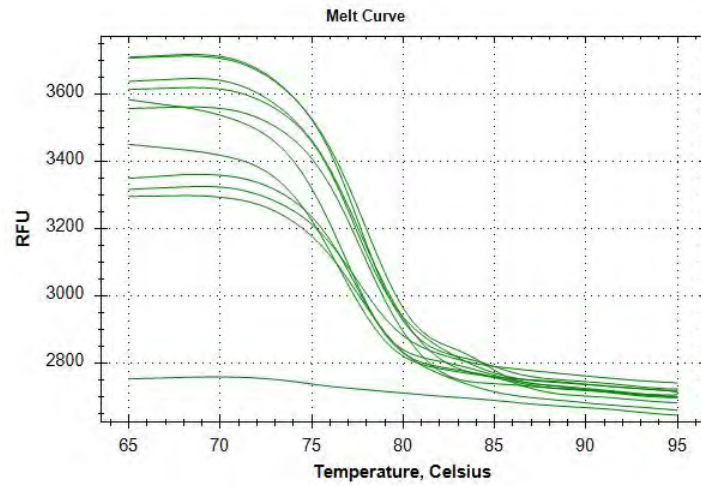
**Graph 6: Relative expression NR2C2 gene in NHDF cells**

Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq	Mean Cq
SYBR	NR2E3	Unkn	Control	cDNA	26.32	26.21	26.26
SYBR	NR2E3	Unkn	1pg	cDNA	26.55	26.97	26.76
SYBR	NR2E3	Unkn	100pg	cDNA	26.70	26.55	26.63
SYBR	NR2E3	Unkn	1ng	cDNA	24.21	26.05	25.13
SYBR	NR2E3	Unkn	100ng	cDNA	26.00	27.17	26.59
SYBR	NR2E3	NTC	NTC	NTC	N/A	N/A	N/A

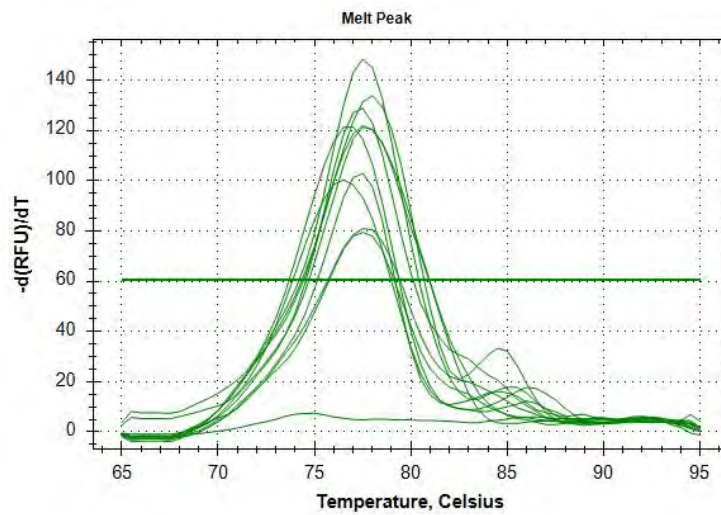


**Figure 7.1: NR2E3 Amplification curve**





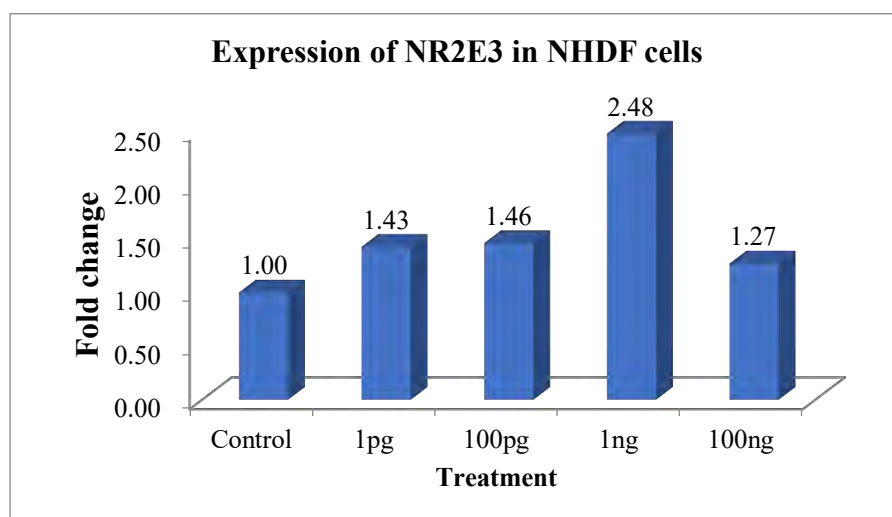
**Figure 7.2: NR2E3 melt curve**



**Figure 7.3: NR2E3 melt peak**

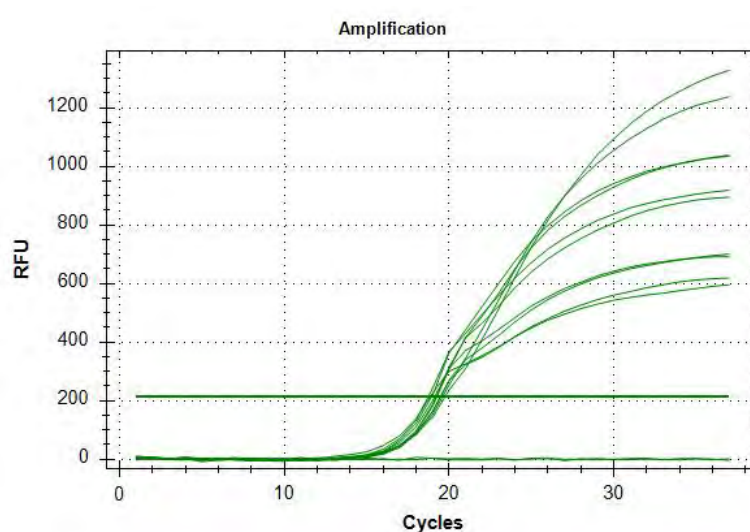
**Table 7: Relative expression of NR2E3 gene in NHDF cells**

Sample	Actin	NR2E3	Delta ct	Delta Delta ct	Fold change $2^{\Delta\Delta Ct}$
Control	20.46	26.26	5.80	0.00	1.00
1pg	21.47	26.76	5.29	-0.51	1.43
100pg	20.87	26.13	5.26	-0.55	1.46
1ng	20.84	25.33	4.49	-1.31	2.48
100ng	21.13	26.59	5.46	-0.34	1.27

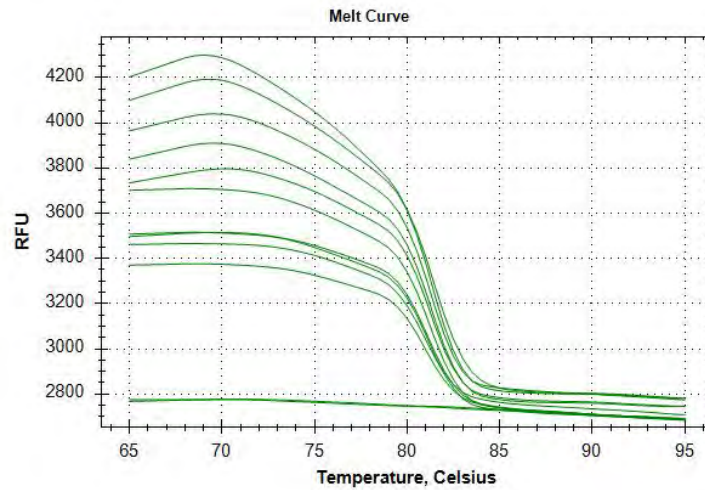


**Graph 7: Relative expression NR2E3 in NHDF cells**

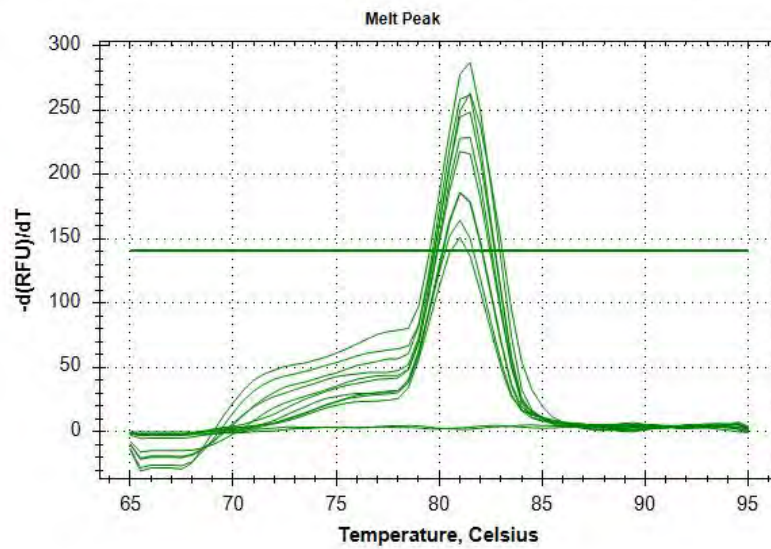
Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq	Mean Cq
SYBR	NR1D2	Unkn	Control	c DNA	19.24	19.45	19.34
SYBR	NR1D2	Unkn	1pg	c DNA	19.73	18.71	19.22
SYBR	NR1D2	Unkn	100pg	c DNA	19.58	19.46	19.52
SYBR	NR1D2	Unkn	1ng	c DNA	18.92	18.83	18.87
SYBR	NR1D2	Unkn	100ng	c DNA	19.19	19.11	19.15
SYBR	NR1D2	NTC	NTC	NTC	N/A	N/A	N/A



**Figure 8.1: NR1D2 Amplification curve**



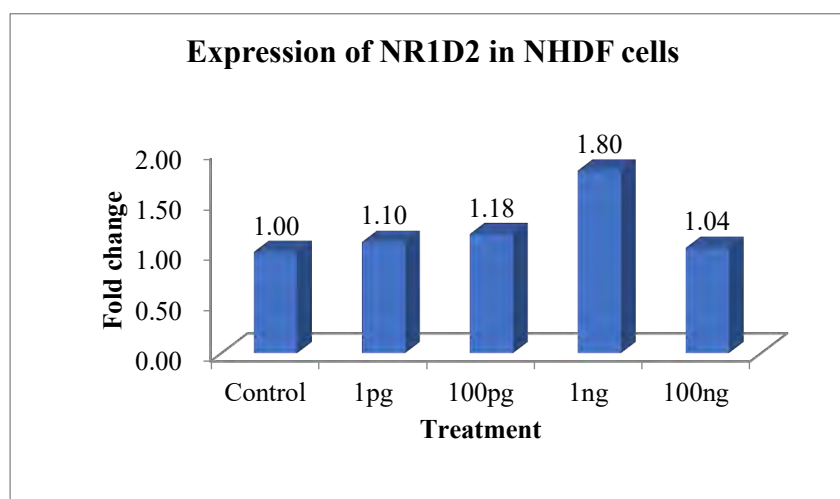
**Figure 8.2: NR1D2 melt curve**



**Figure 8.3: NR1D2 melt peak**

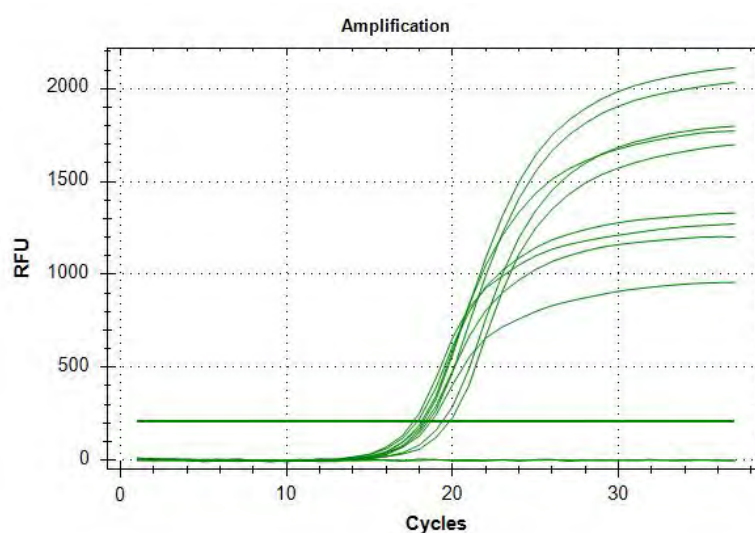
**Table 8: Relative expression of NR1D2 gene in NHDF cells**

Sample	Actin	NR1D2	Delta ct	Delta Delta ct	Fold change $2^{\Delta\Delta Ct}$
Control	20.46	19.34	-1.12	0.00	1.00
1pg	21.47	19.22	-2.25	-1.13	2.19
100pg	20.87	19.52	-1.35	-0.23	1.18
1ng	20.84	18.87	-1.97	-0.85	1.80
100ng	21.13	19.15	-1.98	-0.86	1.82

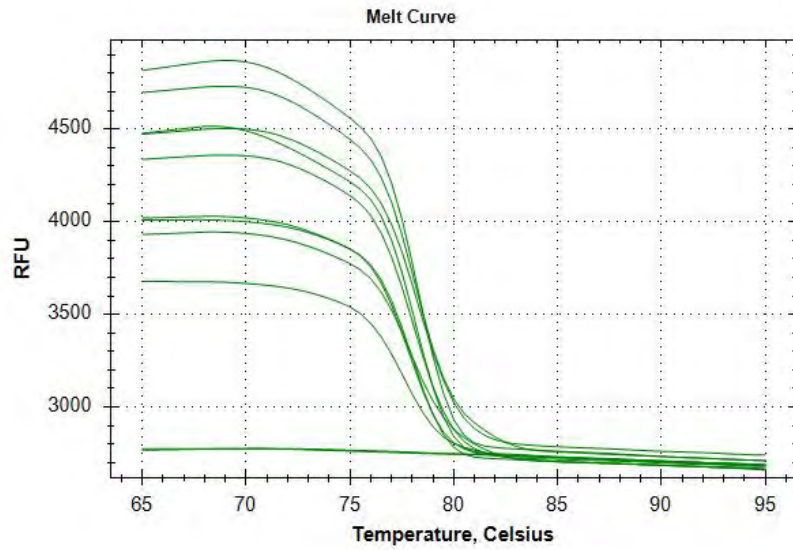


**Graph 8: Relative expression of NR1D2 gene in NHDF cells**

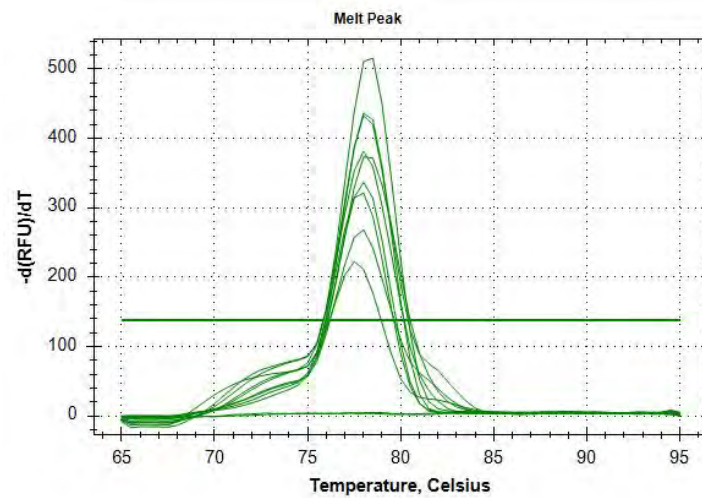
Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq	Mean Cq
SYBR	NR1F2	Unkn	Control	c DNA	18.25	18.14	18.20
SYBR	NR1F2	Unkn	1pg	c DNA	17.65	17.89	17.77
SYBR	NR1F2	Unkn	100pg	c DNA	18.53	18.71	18.62
SYBR	NR1F2	Unkn	1ng	c DNA	19.84	18.39	19.11
SYBR	NR1F2	Unkn	100ng	c DNA	19.39	18.70	19.05
SYBR	NR1F2	NTC	NTC	NTC	N/A	N/A	N/A



**Figure 9.1: NR1F2 Amplification curve**



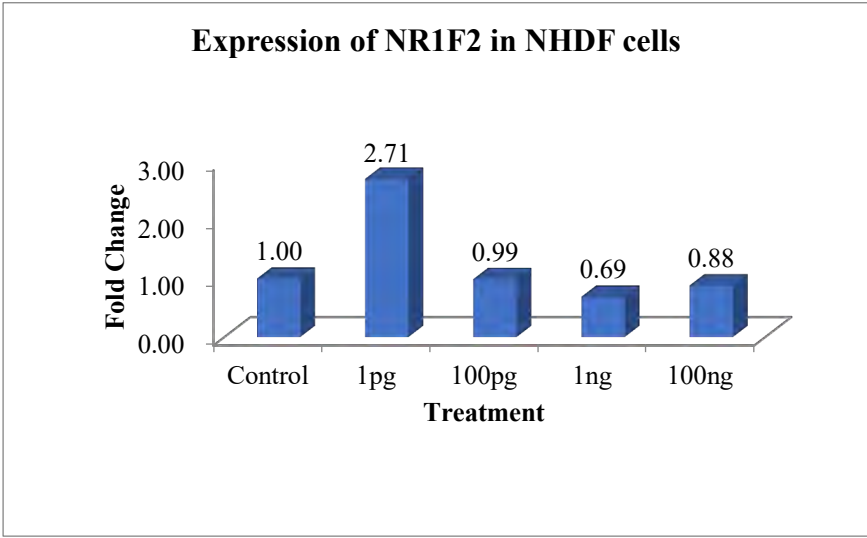
**Figure 9.2: NR1F2 melt curve**



**Figure 9.3: NR1F2 melt peak**

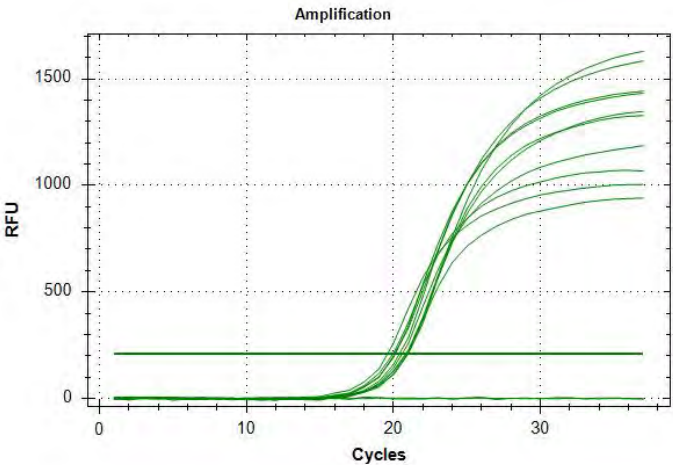
**Table 9: Relative expression of NR1F2 gene in NHDF cells**

Sample	Actin	NR1F2	Delta ct	Delta Delta ct	Fold change $2^{\Delta\Delta ct}$
Control	20.46	18.20	-2.26	0.00	1.00
1pg	21.47	17.77	-3.70	-1.44	2.71
100pg	20.87	18.62	-2.25	0.01	0.99
1ng	20.84	19.11	-1.73	0.53	0.69
100ng	21.13	19.05	-2.08	0.18	0.88



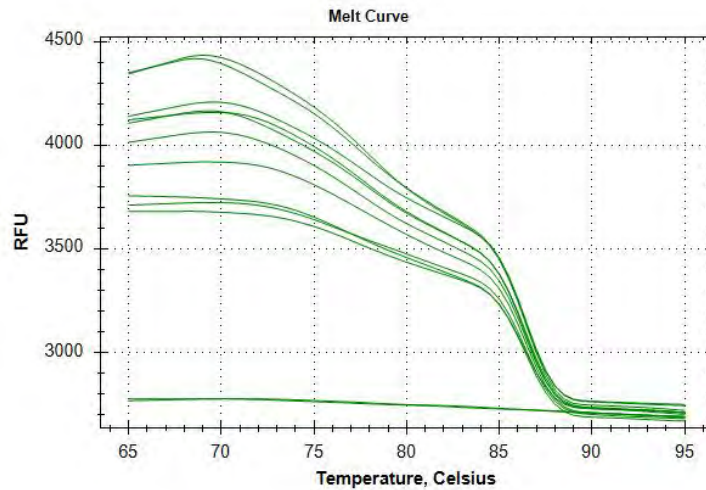
**Graph 9: Relative expression of NR1F2 in NHDF cells**

Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq	Mean Cq
SYBR	NR1I1	Unkn	Control	c DNA	20.85	20.98	20.92
SYBR	NR1I1	Unkn	1pg	c DNA	21.10	21.01	21.05
SYBR	NR1I1	Unkn	100pg	c DNA	19.82	20.10	20.10
SYBR	NR1I1	Unkn	1ng	c DNA	20.13	20.00	20.06
SYBR	NR1I1	Unkn	100ng	c DNA	21.01	20.92	20.97
SYBR	NR1I1	NTC	NTC	NTC	N/A	N/A	N/A

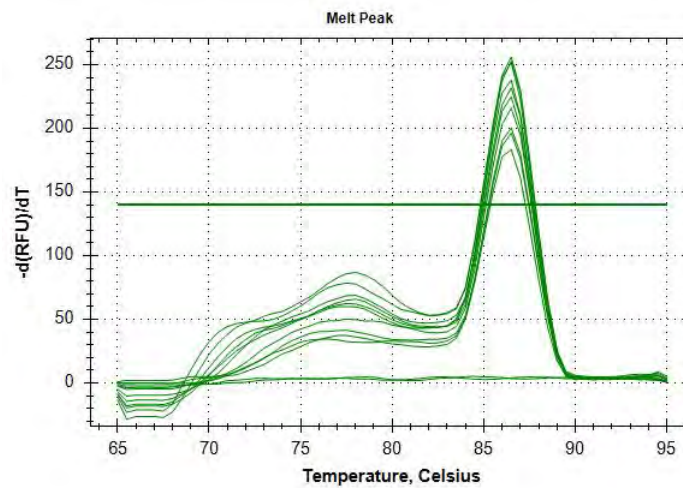


**Figure 10.1: NR1I1 Amplification curve**





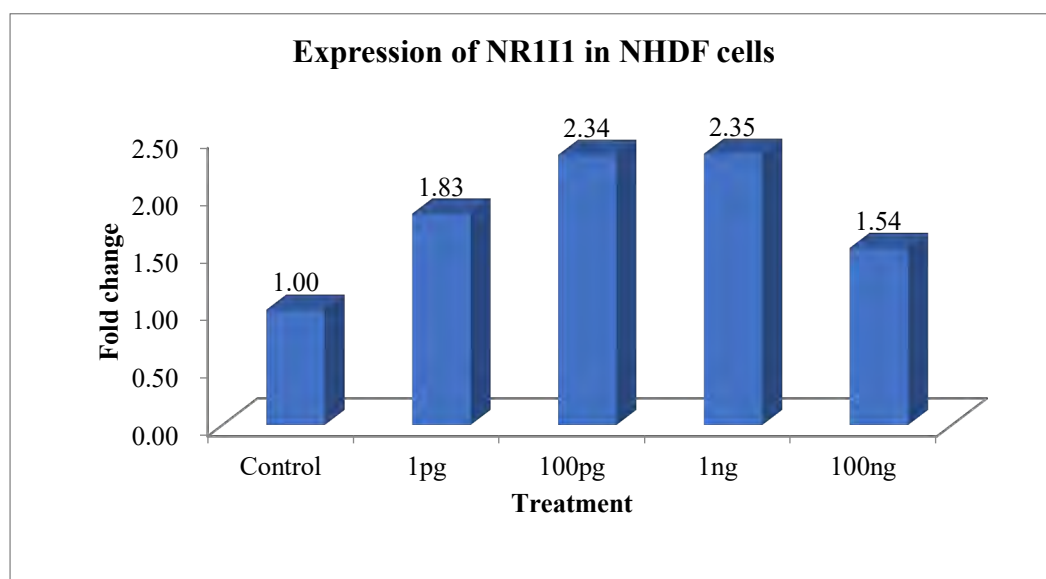
**Figure 10.2: NR1I1 melt curve**



**Figure 10.3: NR1I1 melt peak**

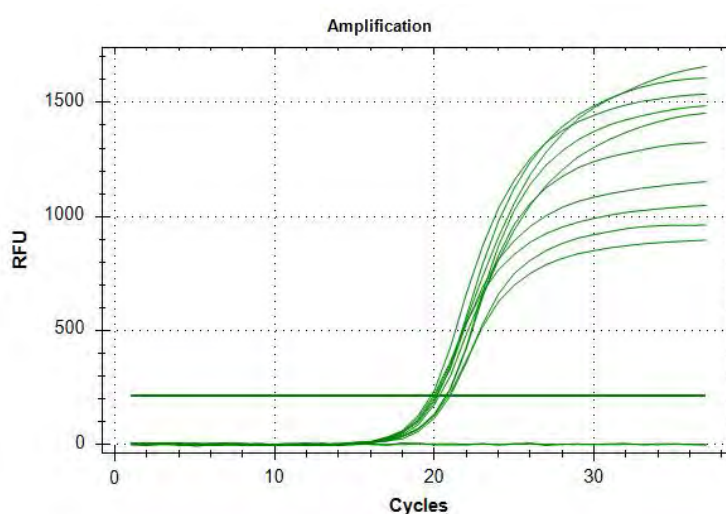
**Table 10: Relative expression of NR1I1 gene in NHDF cells**

Sample	Actin	NR1I1	Delta ct	Delta Delta ct	Fold change $2^{\Delta\Delta ct}$
<b>Control</b>	20.46	20.92	0.46	0.00	1.00
1pg	21.47	21.05	-0.42	-0.87	1.83
100pg	20.87	20.10	-0.77	-1.23	2.34
1ng	20.84	20.06	-0.78	-1.23	2.35
100ng	21.13	20.97	-0.16	-0.62	1.54



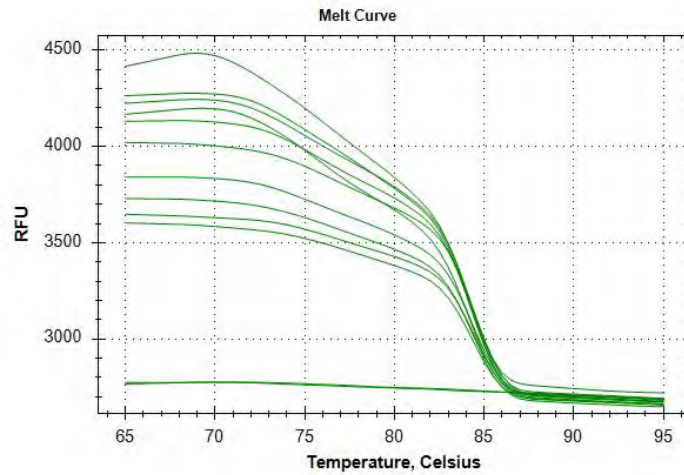
**Graph 10: Relative expression of NR1I1 gene in NHDF cells**

Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq	Mean Cq
SYBR	NR2B1	Unkn	Control	c DNA	20.03	20.29	20.16
SYBR	NR2B1	Unkn	1pg	c DNA	19.77	19.92	19.85
SYBR	NR2B1	Unkn	100pg	c DNA	20.71	20.85	20.78
SYBR	NR2B1	Unkn	1ng	c DNA	20.16	20.11	20.14
SYBR	NR2B1	Unkn	100ng	c DNA	20.71	20.99	20.85
SYBR	NR2B1	NTC	NTC	NTC	N/A	N/A	N/A

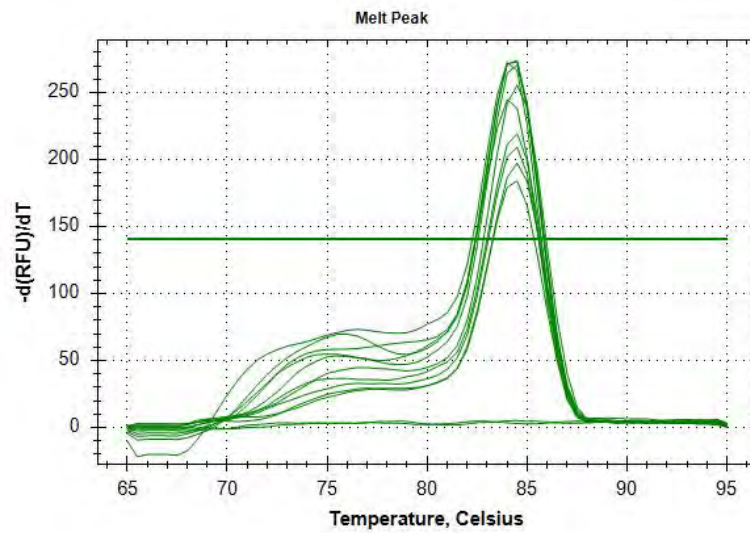


**Figure 11.1: NR2B1 Amplification curve**





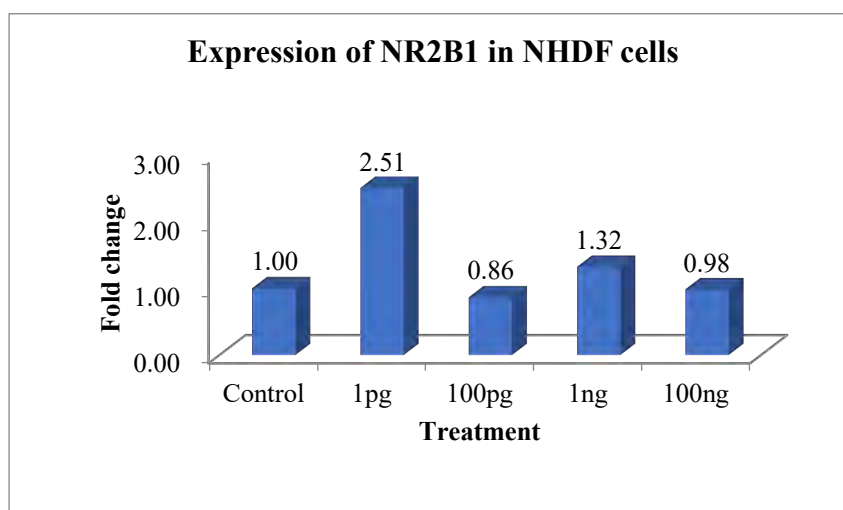
**Figure 11.2: NR2B1 melt curve**



**Figure 11.3: NR2B1 melt peak**

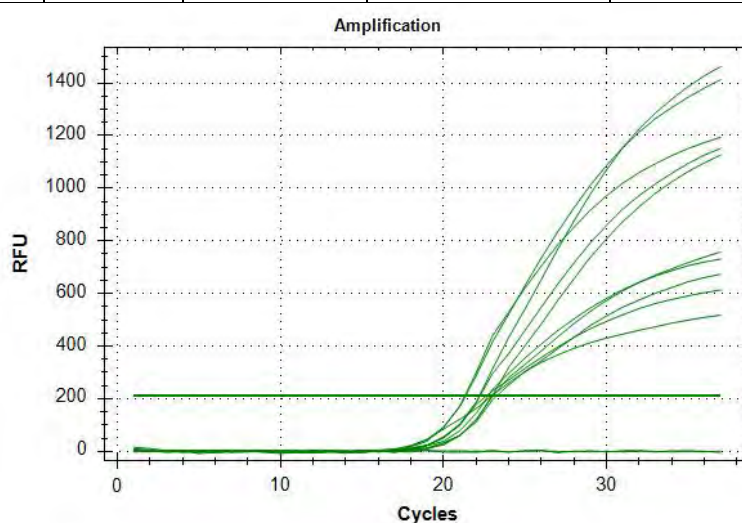
**Table 11: Relative expression of NR2B1 gene in NHDF cells**

Sample	Actin	NR2B1	Delta ct	Delta Delta ct	Fold change $2^{\Delta\Delta ct}$
Control	20.46	20.16	-0.30	0.00	1.00
1pg	21.47	19.85	-1.62	-1.32	2.50
100pg	20.87	20.78	-0.09	0.21	0.86
1ng	20.84	20.14	-0.70	-0.40	1.32
100ng	21.13	20.85	-0.28	0.02	0.98

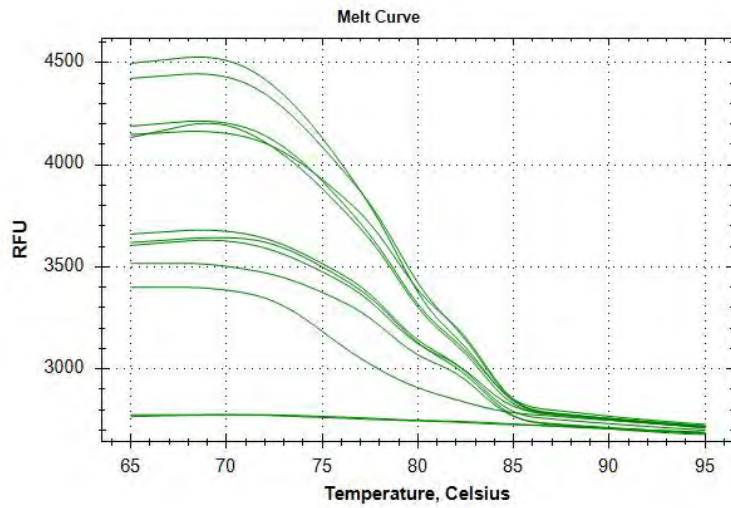


**Graph 11: Relative expression of NR2B1 gene in NHDF cells**

Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq	Mean Cq
SYBR	NR2F6	Unkn	Control	c DNA	22.23	22.74	22.49
SYBR	NR2F6	Unkn	1pg	c DNA	21.35	22.63	21.99
SYBR	NR2F6	Unkn	100pg	c DNA	22.20	23.03	22.61
SYBR	NR2F6	Unkn	1ng	c DNA	21.30	22.97	22.14
SYBR	NR2F6	Unkn	100ng	c DNA	22.98	23.27	23.13
SYBR	NR2F6	NTC	NTC	NTC	N/A	N/A	N/A



**Figure 12.1: NR2F6 Amplification curve**

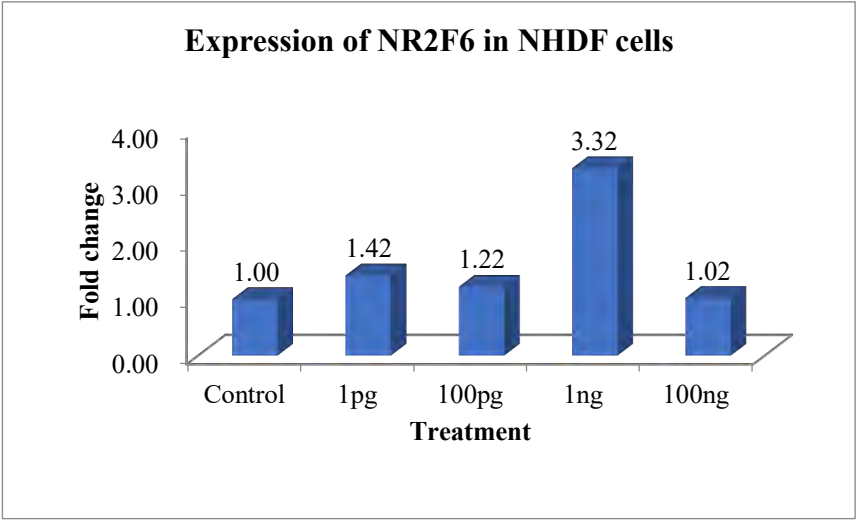


**Figure 12.2: NR2F6 melt curve**

**Figure 12.3: NR2F6 melt peak**

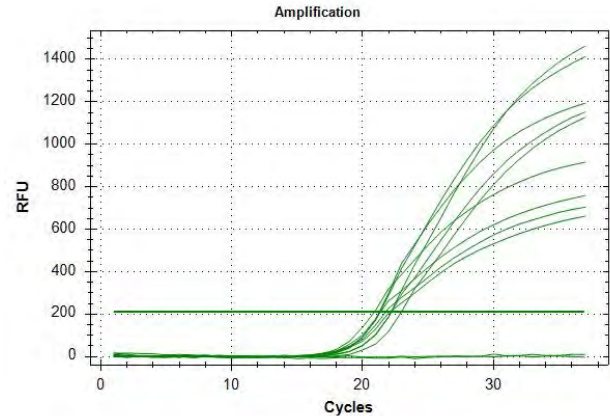
**Table 12: Relative expression of NR2F6 gene in NHDF cells**

Sample	Actin	NR2F6	Delta ct	Delta Delta ct	Fold change $2^{\Delta\Delta ct}$
Control	20.46	22.49	2.03	0.00	1.00
1pg	21.47	21.99	0.52	-1.50	2.84
100pg	20.87	22.61	1.74	-0.29	1.22
1ng	20.84	22.14	1.30	-0.73	1.66
100ng	21.13	23.13	2.00	-0.03	1.02

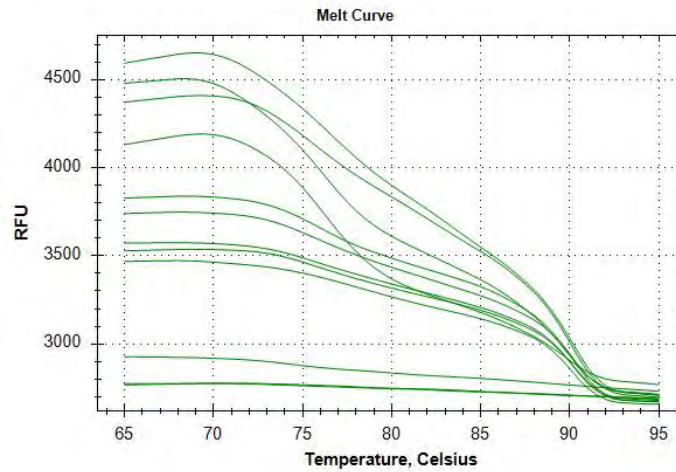


**Graph 12: Relative expression of NR2F6 in NHDF cells**

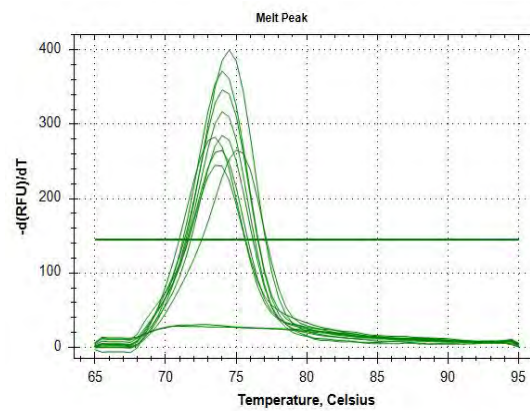
Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq	Mean Cq
SYBR	NR3B1	Unkn	Control	c DNA	26.95	22.11	24.53
SYBR	NR3B1	Unkn	1pg	c DNA	22.10	22.10	22.17
SYBR	NR3B1	Unkn	100pg	c DNA	22.08	21.90	21.89
SYBR	NR3B1	Unkn	1ng	c DNA	23.45	20.93	22.19
SYBR	NR3B1	Unkn	100ng	c DNA	21.66	21.79	21.73
SYBR	NR3B1	NTC	NTC	NTC	N/A	N/A	N/A



**Figure 13.1: NR3B1 Amplification curve**



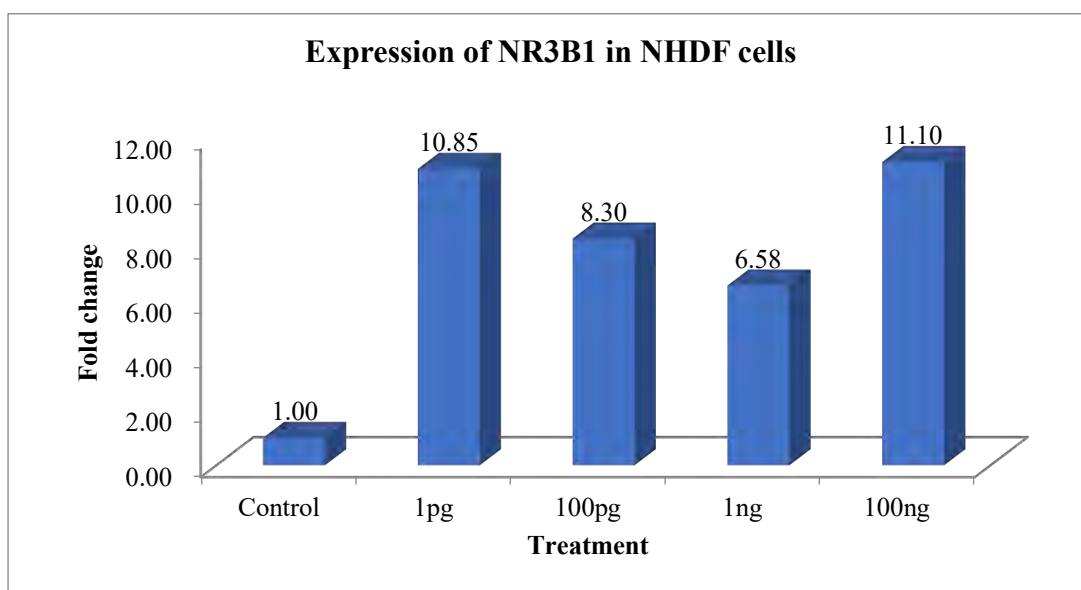
**Figure 13.2: NR3B1 melt curve**



**Figure 13.3: NR3B1 melt peak**

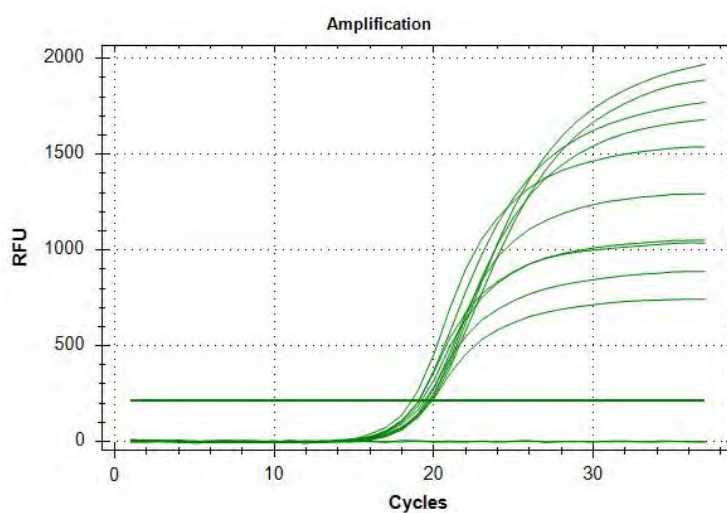
**Table 13: Relative expression of NR3B1 gene in NHDF cells**

Sample	Actin	NR3B1	Delta ct	Delta Delta ct	Fold change $2^{\Delta\Delta ct}$
Control	20.46	24.53	4.07	0.00	1.00
1pg	21.47	22.10	0.63	-3.44	10.85
100pg	20.87	21.89	1.02	-3.05	8.30
1ng	20.84	22.19	1.35	-2.72	6.58
100ng	21.13	21.73	0.60	-3.47	11.10



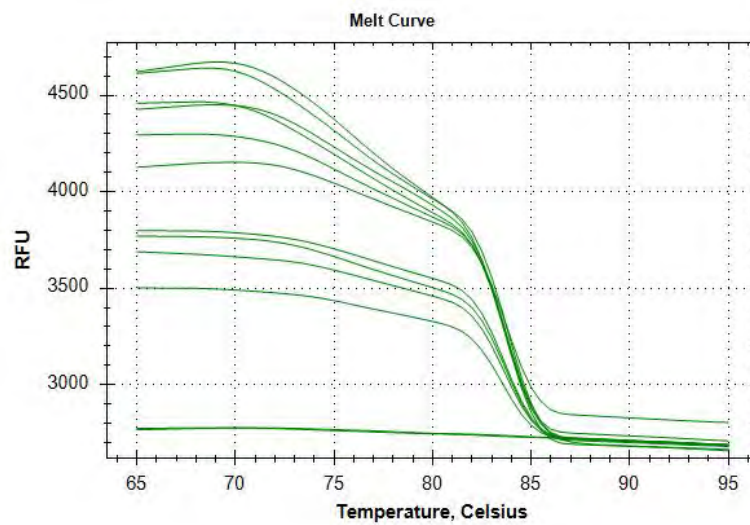
**Graph 13: Relative expression of NR3B1 in NHDF cells**

Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq	Mean Cq
SYBR	NR5A2	Unkn	Control	c DNA	19.68	19.38	19.53
SYBR	NR5A2	Unkn	1pg	c DNA	18.57	19.05	18.81
SYBR	NR5A2	Unkn	100pg	c DNA	19.01	19.16	19.10
SYBR	NR5A2	Unkn	1ng	c DNA	19.03	19.19	19.11
SYBR	NR5A2	Unkn	100ng	c DNA	19.19	19.19	19.19
SYBR	NR5A2	NTC	NTC	NTC	N/A	N/A	N/A

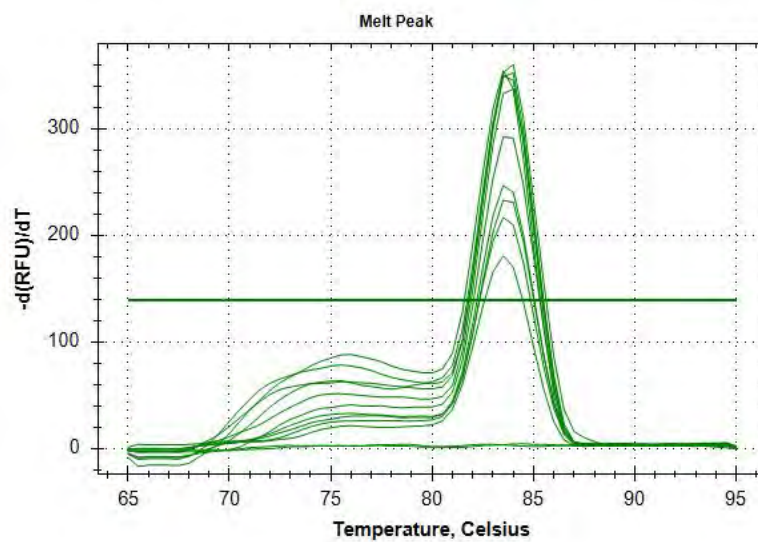




**Figure 14.1: NR5A2 Amplification curve**



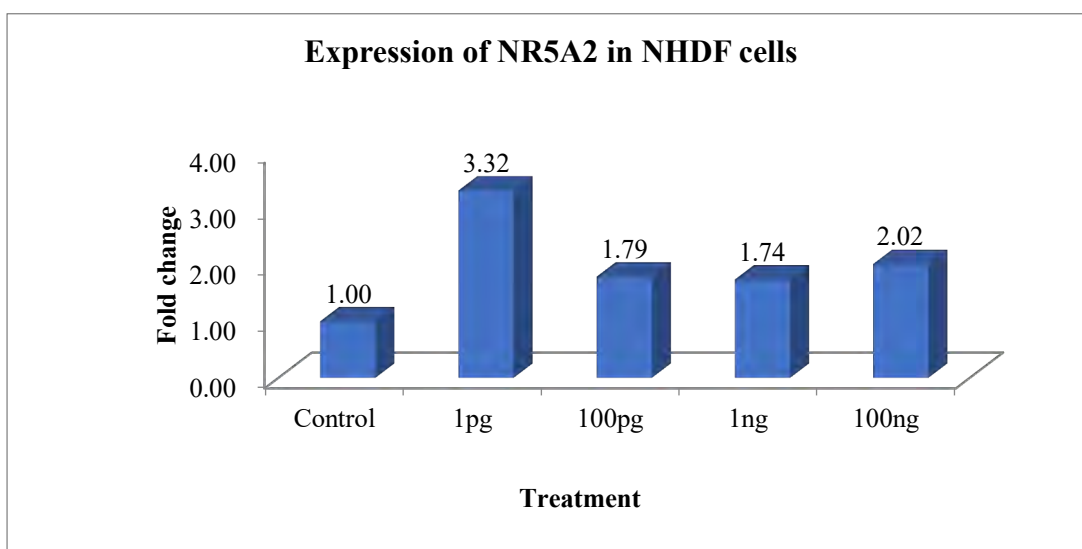
**Figure 14.2: NR5A2 melt curve**



**Figure 14.3: NR5A2 melt peak**

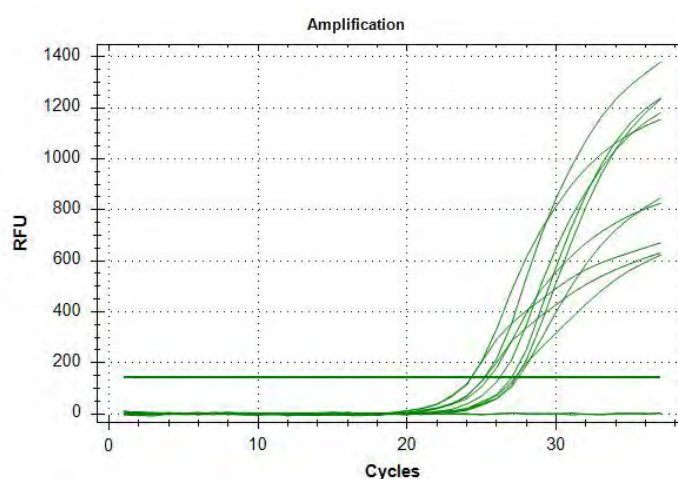
**Table 14: Relative expression of NR5A2 gene in NHDF cells**

Sample	Actin	NR5A2	Delta ct	Delta Delta ct	Fold change $2^{\Delta\Delta Ct}$
Control	20.46	19.53	-0.93	0.00	1.00
1pg	21.47	18.81	-2.66	-1.73	3.32
100pg	20.87	19.10	-1.77	-0.84	1.79
1ng	20.84	19.11	-1.73	-0.80	1.74
100ng	21.13	19.19	-1.94	-1.01	2.02



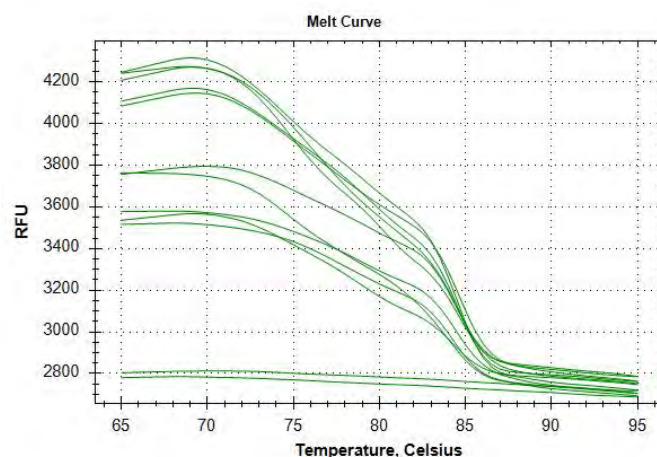
**Graph 14: Relative expression of NR5A2 gene in NHDF cells**

Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq	Mean Cq
SYBR	NR1B3	Unkn	Control	c DNA	26.94	26.24	26.59
SYBR	NR1B3	Unkn	1pg	c DNA	25.88	26.32	26.10
SYBR	NR1B3	Unkn	100pg	c DNA	25.72	25.15	25.44
SYBR	NR1B3	Unkn	1ng	c DNA	24.99	25.03	25.01
SYBR	NR1B3	Unkn	100ng	c DNA	27.18	27.1	27.14
SYBR	NR1B3	NTC	NTC	NTC	N/A	N/A	N/A

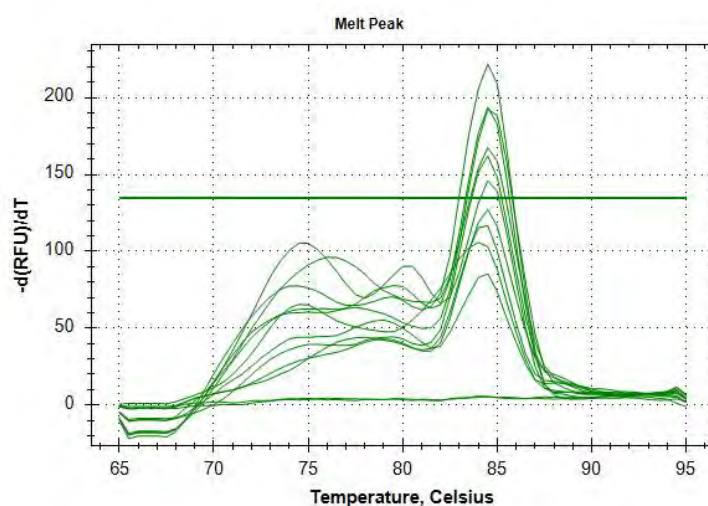


**Figure 15.1: NR1B3 Amplification curve**





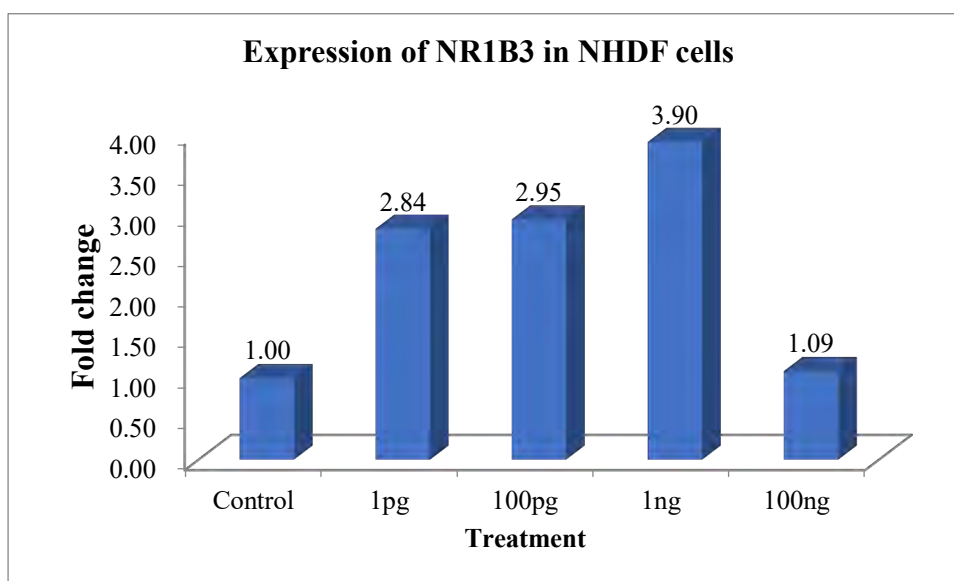
**Figure 15.2: NR1B3 melt curve**



**Figure 15.3: NR1B3 melt peak**

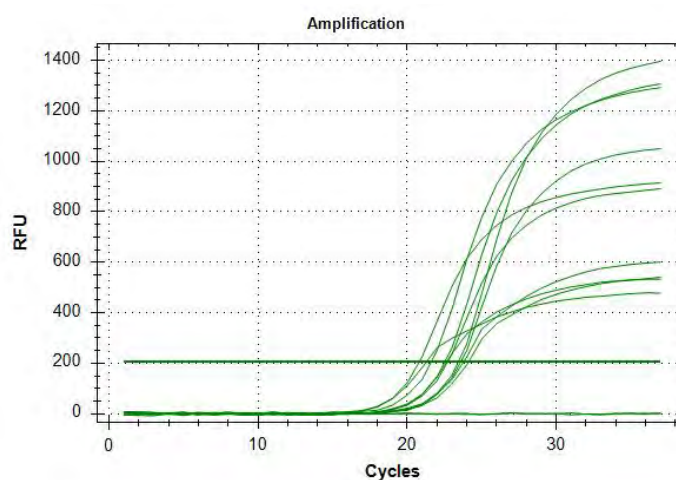
**Table 15: Relative expression of NR1B3 gene in NHDF cells**

Sample	Actin	NR1B3	Delta ct	Delta Delta ct	Fold change $2^{\Delta\Delta ct}$
Control	20.46	26.59	6.13	0.00	1.00
1pg	21.47	26.10	4.63	-1.50	2.84
100pg	20.87	25.44	4.57	-1.56	2.95
1ng	20.84	25.01	4.17	-1.97	3.90
100ng	21.13	27.14	6.01	-0.12	1.09

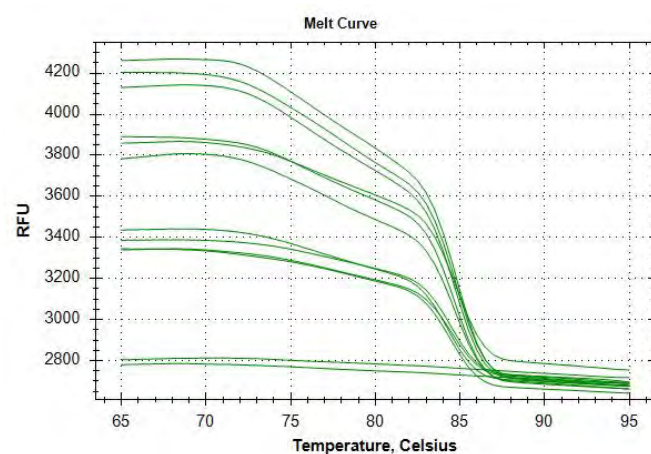


**Graph 15: Relative expression of NR1B3 in NHDF cells**

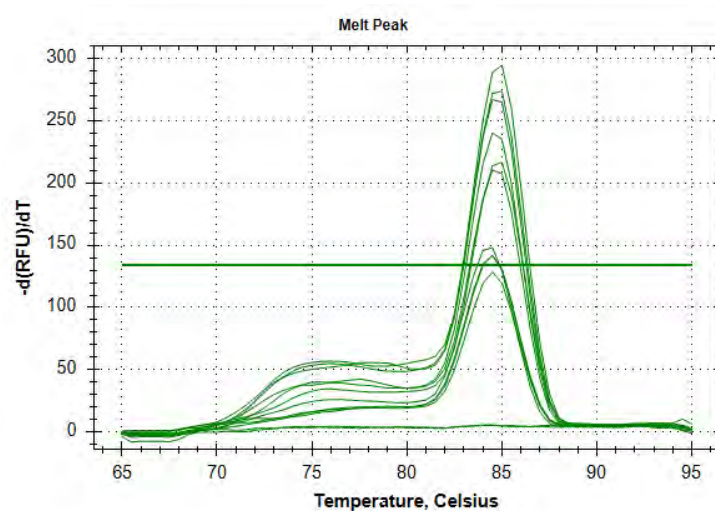
Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq	Mean Cq
SYBR	NR1H3	Unkn	Control	c DNA	22.52	22.71	22.61
SYBR	NR1H3	Unkn	1pg	c DNA	22.89	22.95	22.92
SYBR	NR1H3	Unkn	100pg	c DNA	22.09	22.29	23.19
SYBR	NR1H3	Unkn	1ng	c DNA	20.81	21.30	21.05
SYBR	NR1H3	Unkn	100ng	c DNA	23.43	24.12	23.77
SYBR	NR1H3	NTC	NTC	NTC	N/A	N/A	N/A



**Figure 16.1: NR1H3 Amplification curve**



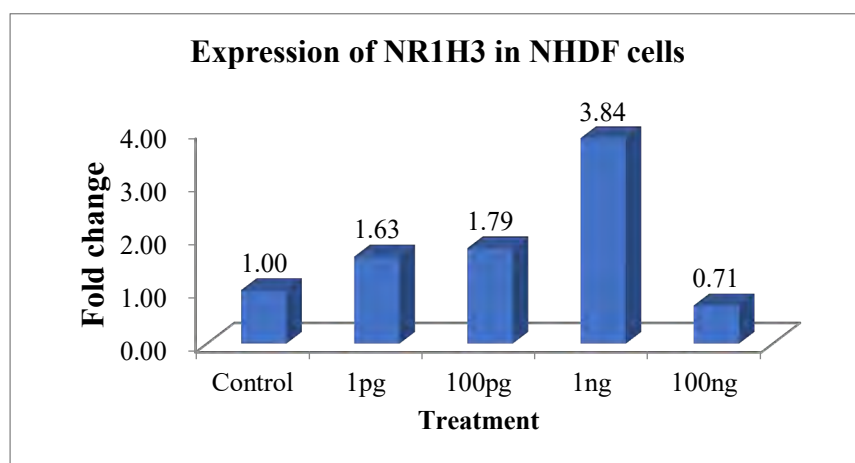
**Figure 16.2: NR1H3 melt curve**



**Figure 16.3: NR1H3 melt peak**

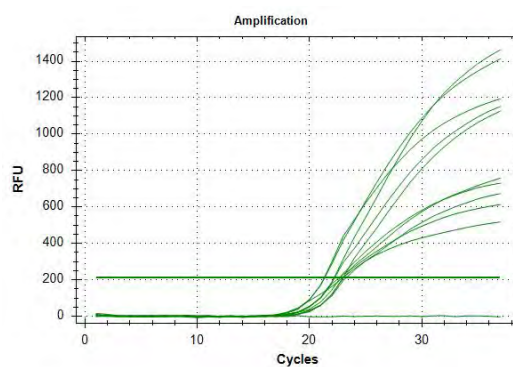
**Table 16: Relative expression of NR1H3 gene in NHDF cells**

Sample	Actin	NR1H3	Delta ct	Delta Delta ct	Fold change $2^{\Delta\Delta ct}$
<b>Control</b>	20.46	22.61	2.15	0.00	1.00
1pg	21.47	22.92	1.45	-0.70	1.63
100pg	20.87	22.19	1.32	-0.84	1.79
1ng	20.84	21.05	0.21	-1.94	3.84
100ng	21.13	23.77	2.64	0.49	0.71

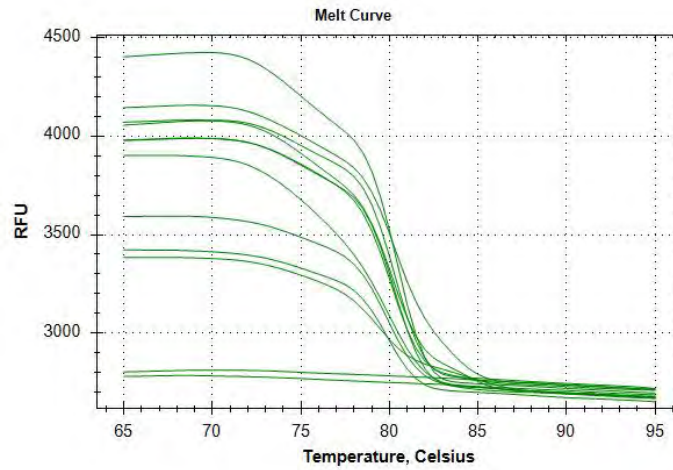


**Graph 16: Relative expression of NR1H3 in NHDF cells**

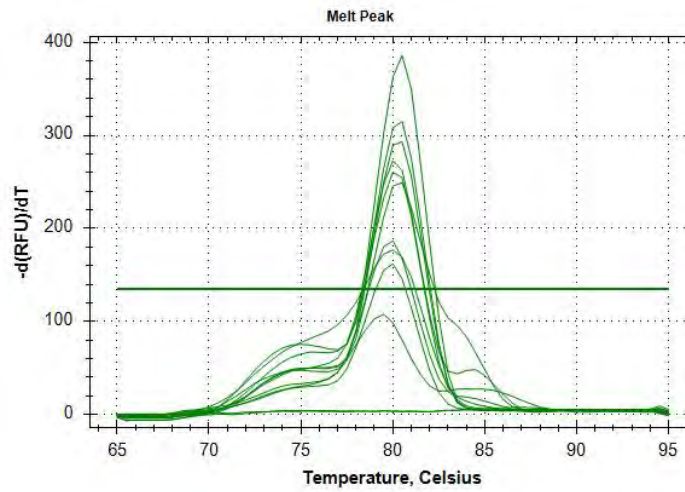
Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq	Mean Cq
SYBR	NR2F1	Unkn	Control	c DNA	21.60	21.44	21.52
SYBR	NR2F1	Unkn	1pg	c DNA	21.04	29.29	25.16
SYBR	NR2F1	Unkn	100pg	c DNA	23.17	20.99	22.08
SYBR	NR2F1	Unkn	1ng	c DNA	20.57	21.10	20.83
SYBR	NR2F1	Unkn	100ng	c DNA	22.56	23.80	23.18
SYBR	NR2F1	NTC	NTC	NTC	N/A	N/A	N/A



**Figure 17.1: NR2F1 Amplification curve**



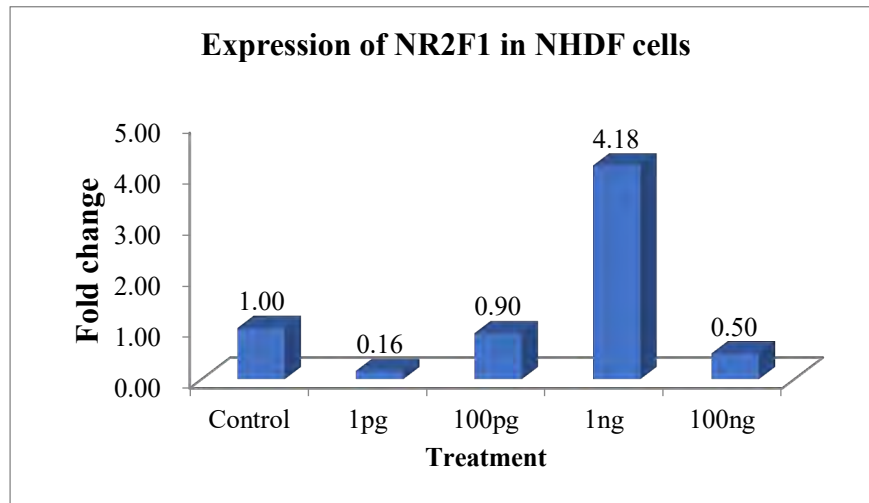
**Figure 17.2: NR2F1 melt curve**



**Figure 17.3: NR2F1 melt peak**

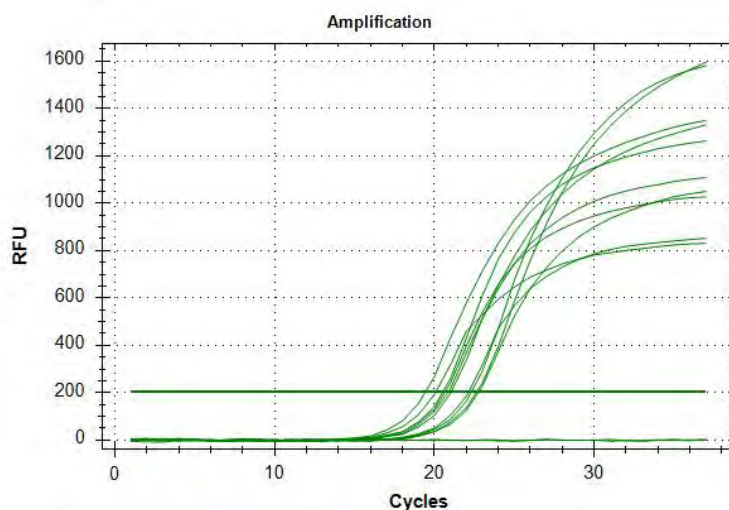
**Table 17: Relative expression of NR2F1 gene in NHDF cells**

Sample	Actin	NR2F1	Delta ct	Delta Delta ct	Fold change $2^{\Delta\Delta Ct}$
Control	20.46	21.52	1.06	0.00	1.00
1pg	21.47	25.16	3.69	2.63	0.16
100pg	20.87	22.08	1.21	0.15	0.90
1ng	20.83	19.83	-1.01	-2.06	4.18
100ng	21.13	23.18	2.05	0.99	0.50



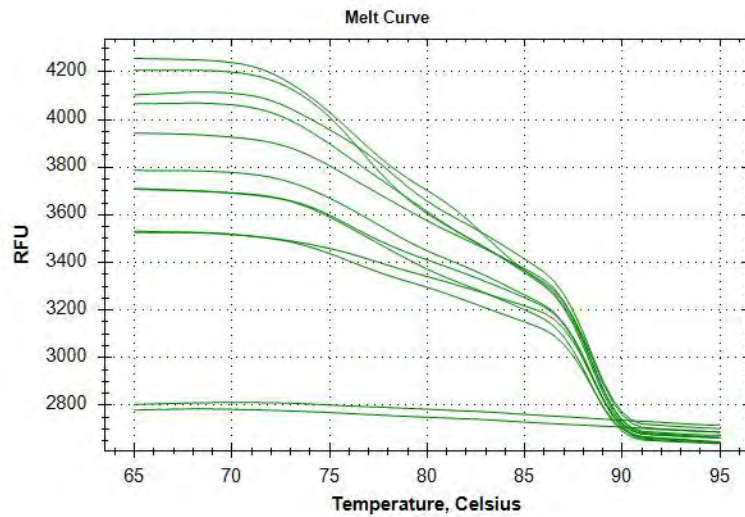
**Graph 17: Relative expression of NR2F1 in NHDF cells**

Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq	Mean Cq
SYBR	NR2F2	Unkn	Control	c DNA	20.89	21.06	20.97
SYBR	NR2F2	Unkn	1pg	c DNA	22.55	21.68	20.91
SYBR	NR2F2	Unkn	100pg	c DNA	21.03	21.229	22.56
SYBR	NR2F2	Unkn	1ng	c DNA	19.45	20.10	19.78
SYBR	NR2F2	Unkn	100ng	c DNA	22.66	22.16	22.41
SYBR	NR2F2	NTC	NTC	NTC	N/A	N/A	N/A

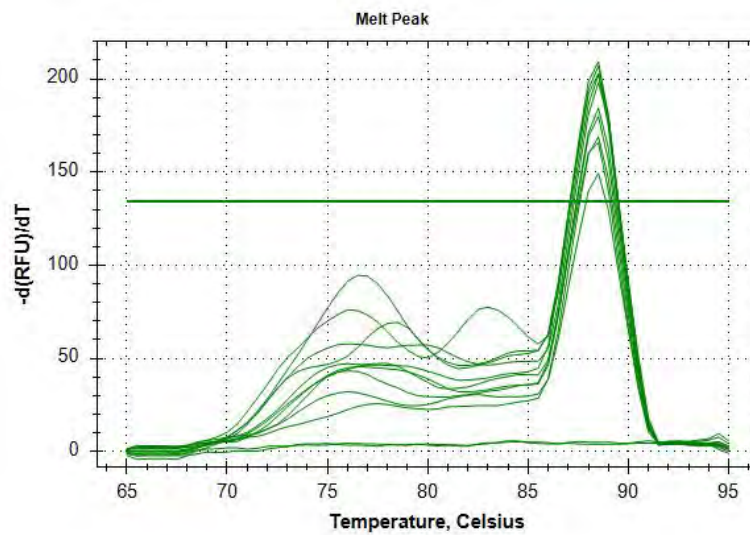


**Figure 18.1: NR2F2 Amplification curve**





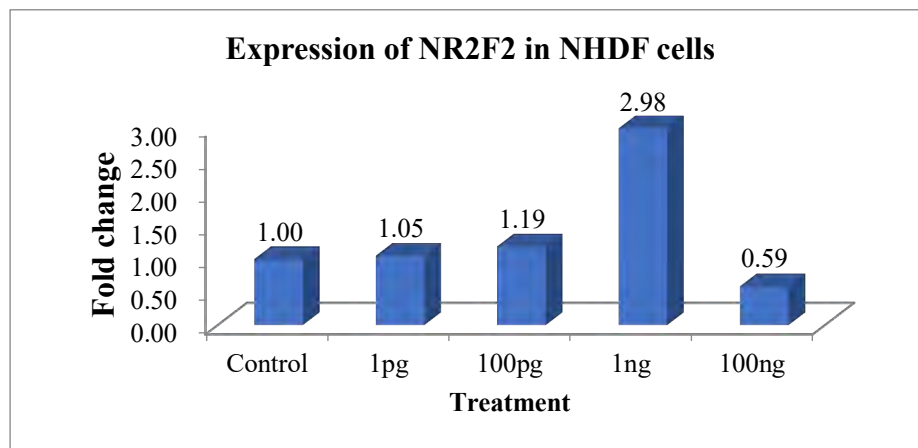
**Figure 18.2: NR2F2 melt curve**



**Figure 18.3: NR2F2 melt peak**

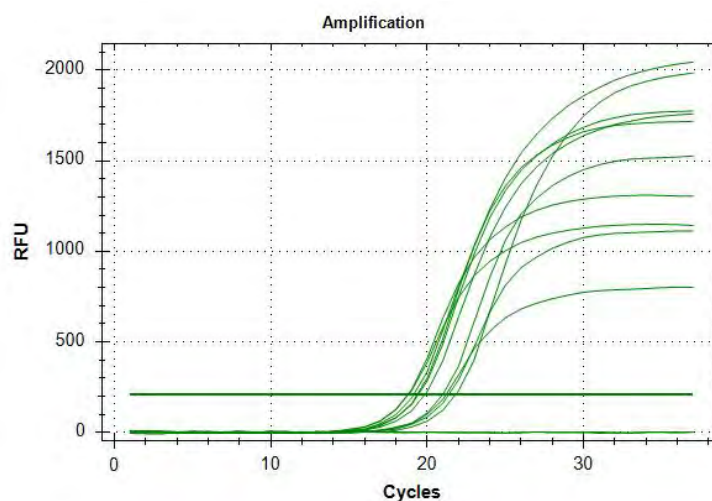
**Table 18: Relative expression of NR2F2 gene in NHDF cells**

Sample	Actin	NR2F2	Delta ct	Delta Delta ct	Fold change $2^{\Delta\Delta ct}$
Control	20.46	20.97	0.51	0.00	1.00
1pg	21.47	21.91	0.44	-0.07	1.05
100pg	20.87	21.13	0.26	-0.25	1.19
1ng	20.84	19.78	-1.06	-1.58	2.98
100ng	21.13	22.41	1.28	0.77	0.59



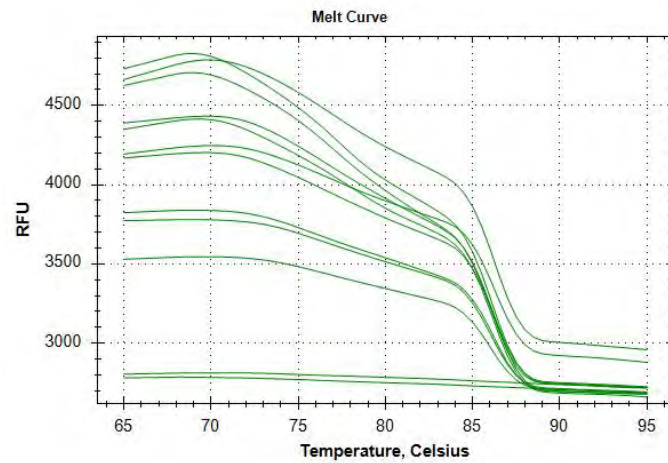
**Graph 18: Relative expression of NR2F2 gene in NHDF cells**

Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq	Mean Cq
SYBR	NR3B3	Unkn	Control	c DNA	19.11	19.40	19.25
SYBR	NR3B3	Unkn	1pg	c DNA	19.33	19.81	19.57
SYBR	NR3B3	Unkn	100pg	c DNA	19.77	19.34	21.56
SYBR	NR3B3	Unkn	1ng	c DNA	18.71	18.76	18.74
SYBR	NR3B3	Unkn	100ng	c DNA	20.95	21.18	21.07
SYBR	NR3B3	NTC	NTC	NTC	N/A	N/A	N/A

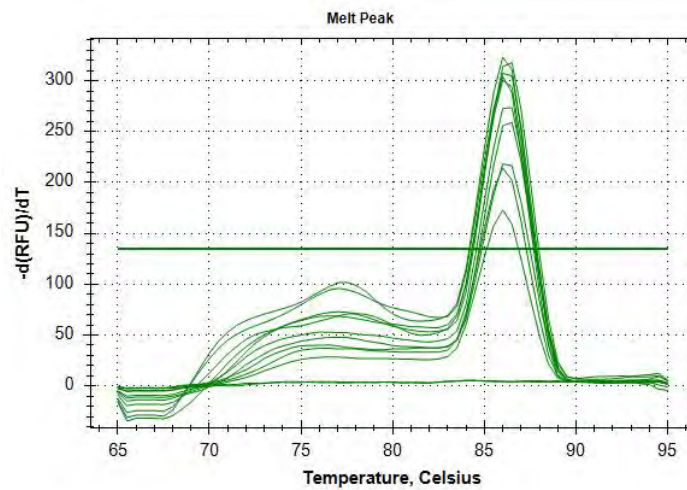


**Figure 19.1: NR3B3 Amplification curve**





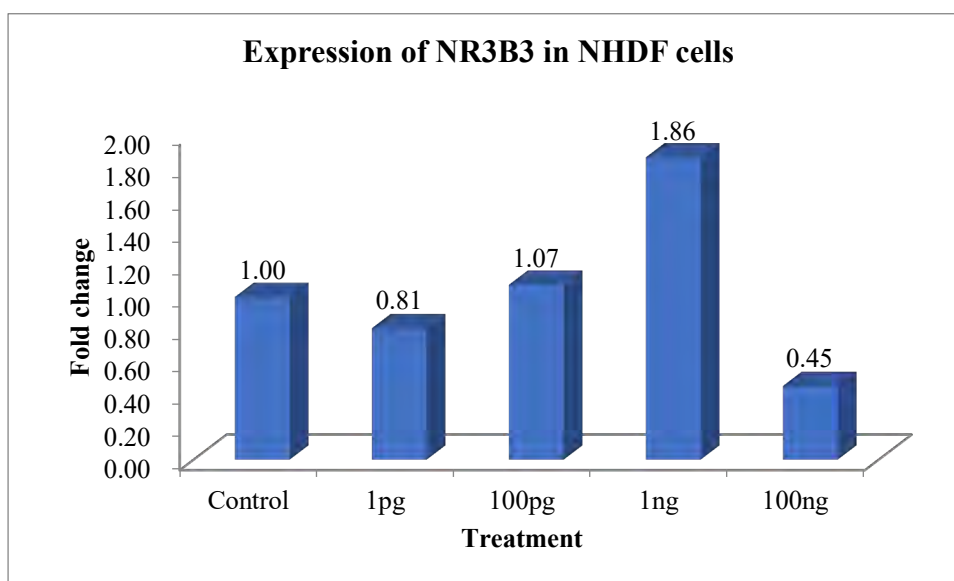
**Figure 19.2: NR3B3 melt curve**



**Figure 19.3: NR3B3 melt peak**

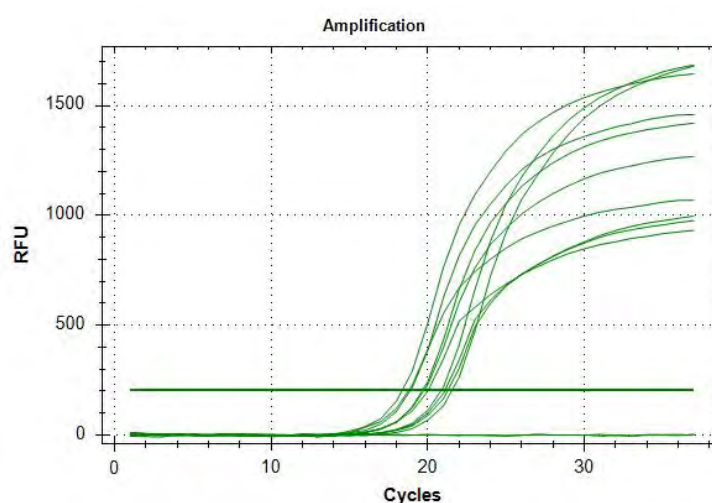
**Table 19: Relative expression of NR3B3 gene in NHDF cells**

Sample	Actin	NR3B3	Delta ct	Delta Delta ct	Fold change $2^{\Delta\Delta ct}$
Control	20.46	19.25	-1.21	0.00	1.00
1pg	21.47	20.57	-0.90	0.31	0.81
100pg	20.87	19.56	-1.31	-0.10	1.07
1ng	20.84	18.74	-2.10	-0.89	1.86
100ng	21.13	21.07	-0.06	1.14	0.45

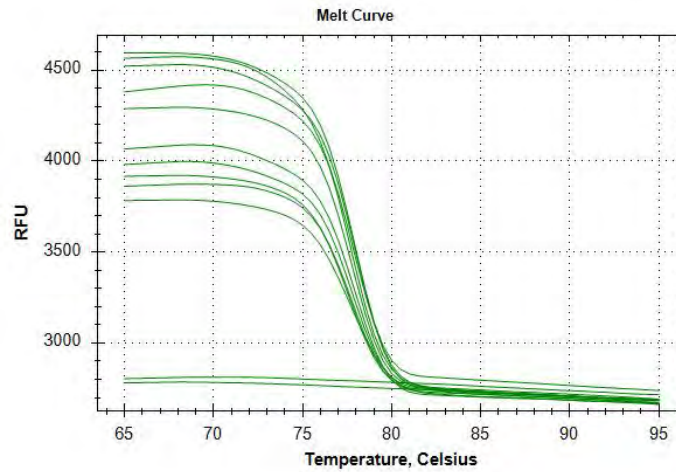


**Graph 19: Relative expression of NR3B3 in NHDF cells**

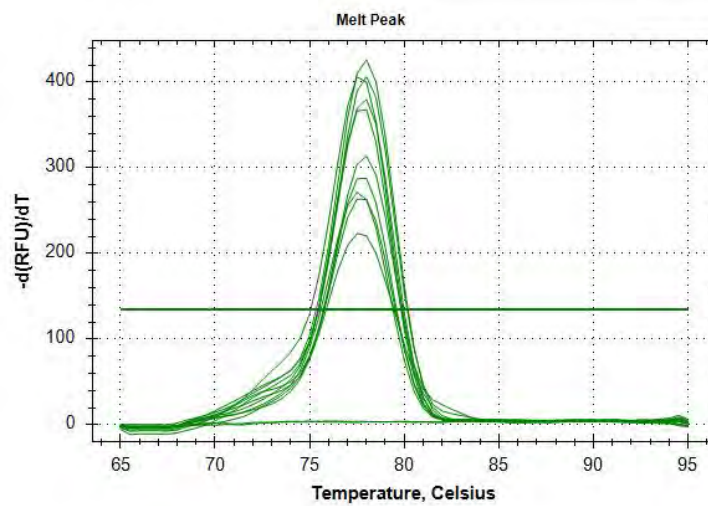
Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq	Mean Cq
SYBR	NR3C3	Unkn	Control	c DNA	18.90	19.77	19.34
SYBR	NR3C3	Unkn	1pg	c DNA	20.67	21.04	19.85
SYBR	NR3C3	Unkn	100pg	c DNA	19.55	19.29	19.42
SYBR	NR3C3	Unkn	1ng	c DNA	18.37	18.80	18.58
SYBR	NR3C3	Unkn	100ng	c DNA	20.87	21.10	20.99
SYBR	NR3C3	NTC	NTC	NTC	N/A	N/A	N/A



**Figure 20.1: NR3C3 Amplification curve**



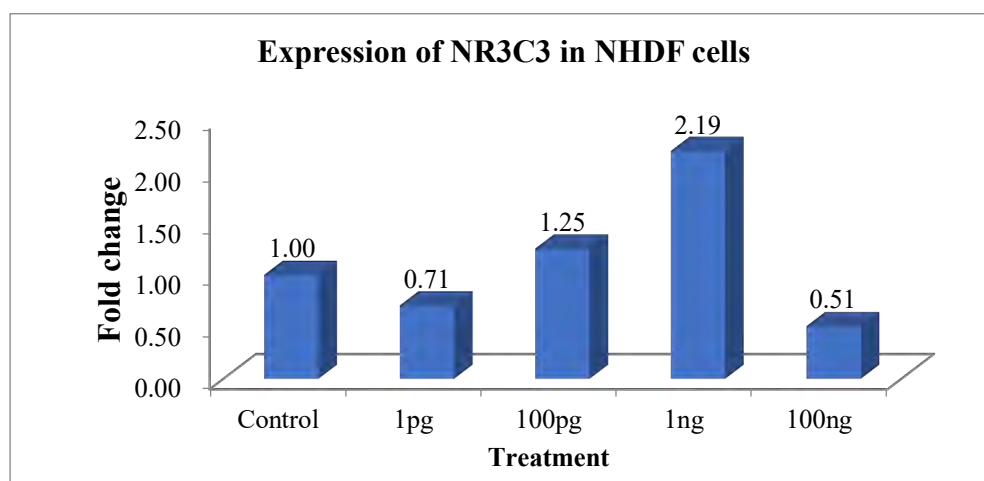
**Figure 20.2: NR3C3 melt curve**



**Figure 20.3: NR3C3 melt peak**

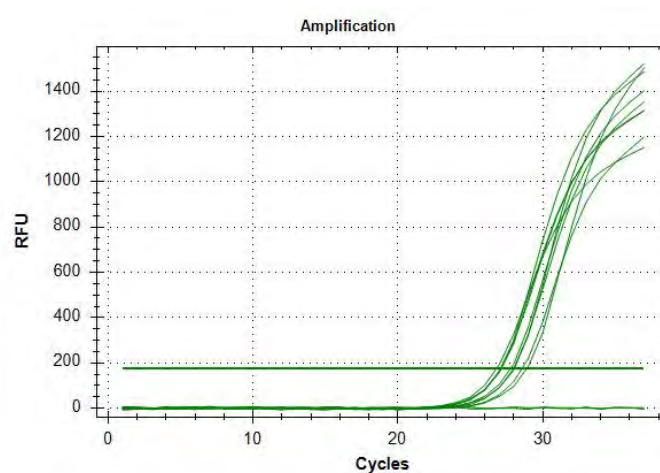
**Table 20: Relative expression of NR3C3 gene in NHDF cells**

Sample	Actin	NR3C3	Delta ct	Delta Delta ct	Fold change 2 <sup>^</sup> DDct
Control	20.46	19.34	-1.12	0.00	1.00
1pg	21.47	19.85	-0.62	0.50	0.71
100pg	20.87	19.42	-1.45	-0.33	1.25
1ng	20.84	18.58	-2.26	-1.13	2.19
100ng	21.13	20.99	-0.14	0.98	0.51

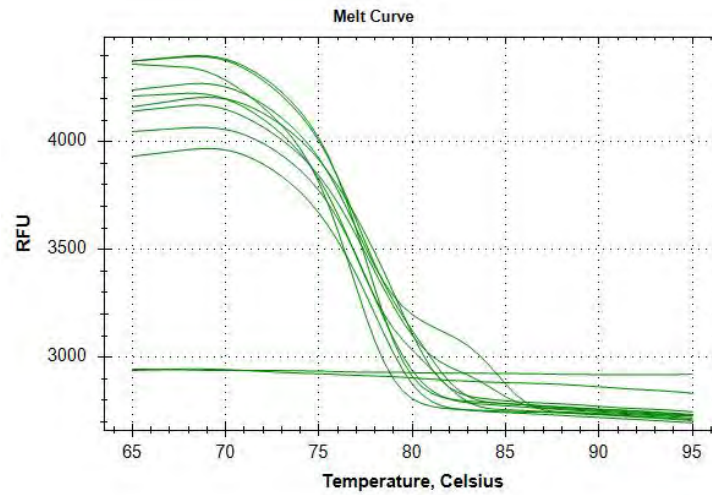


**Graph 20: Relative expression of NR3C3 in NHDF cells**

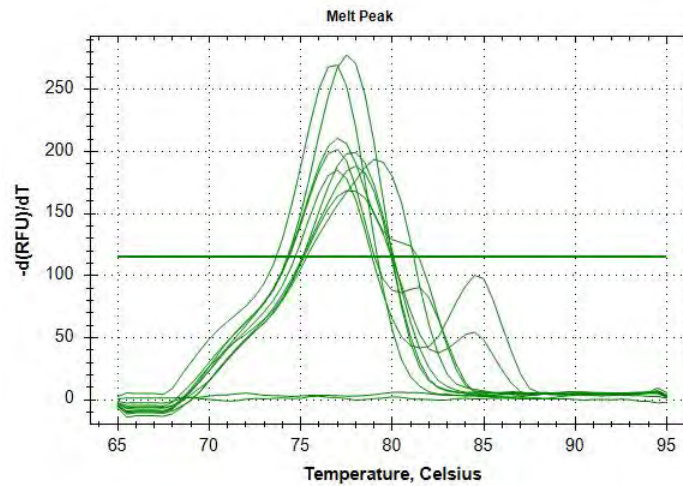
Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq	Mean Cq
SYBR	NR1I3	Unkn	Control	cDNA	24.12	28.90	26.51
SYBR	NR1I3	Unkn	1pg	cDNA	27.11	28.00	27.55
SYBR	NR1I3	Unkn	100pg	cDNA	28.34	27.77	27.50
SYBR	NR1I3	Unkn	1ng	cDNA	28.67	26.81	27.90
SYBR	NR1I3	Unkn	100ng	cDNA	27.08	27.14	28.10
SYBR	NR1I3	NTC	NTC	NTC	NA	NA	0.00



**Figure 21.1: NR1I3 Amplification curve**



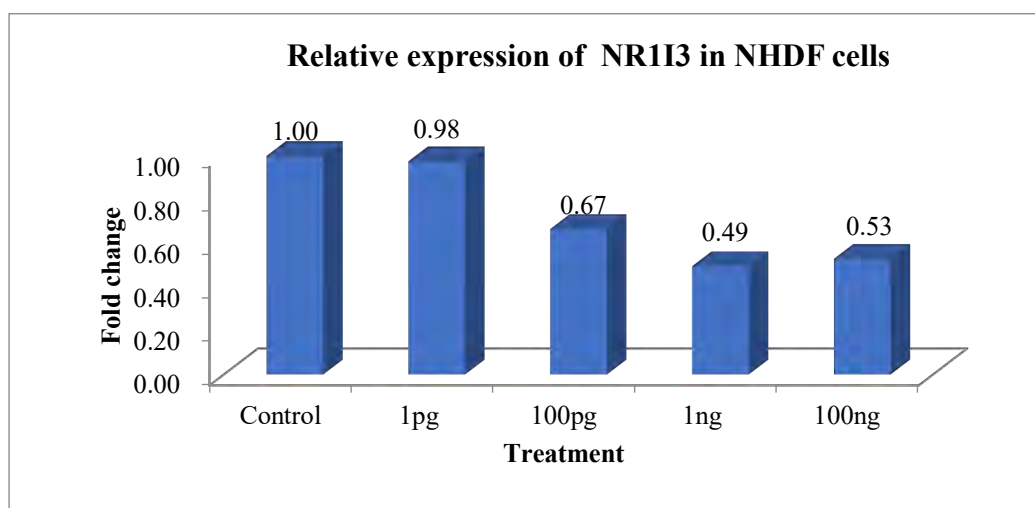
**Figure 21.2: NR1I3 melt curve**



**Figure 21.3: NR1I3 melt peak**

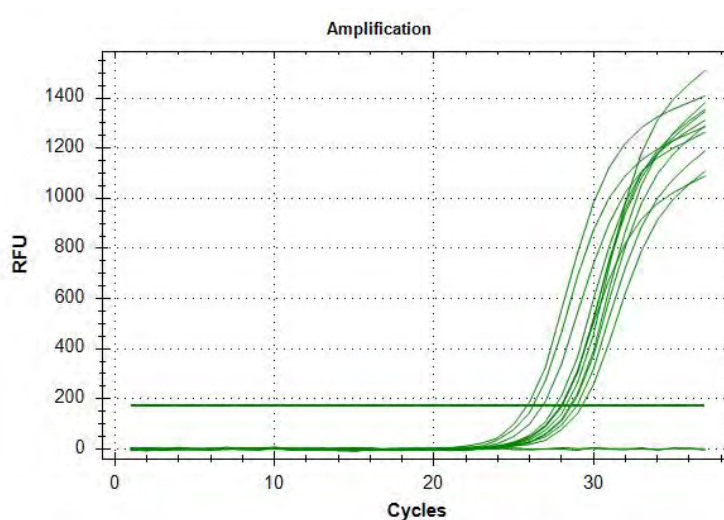
**Table 21: Relative expression of NR1I3 gene in NHDF cells**

Sample	Actin	NR1I3	Delta ct	Delta Delta ct	Fold change $2^{\Delta\Delta Ct}$
Control	20.46	26.51	6.051	0.000	1.00
1pg	21.47	27.55	6.087	0.0361	0.98
100pg	20.87	27.50	6.639	0.6	0.67
1ng	20.84	27.90	7.066	1.015	0.49
100ng	21.13	28.10	6.970	0.919	0.53



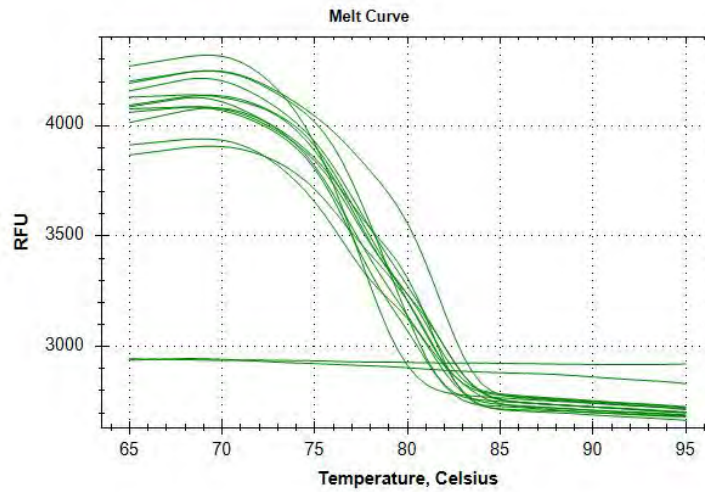
**Graph 21: Relative expression of NR1I3 in NHDF cells**

Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq	Mean Cq
SYBR	NR6A1	Unkn	Control	cDNA	26.82	28.01	27.42
SYBR	NR6A1	Unkn	1pg	cDNA	28.63	26.23	27.43
SYBR	NR6A1	Unkn	100pg	cDNA	28.55	27.64	28.10
SYBR	NR6A1	Unkn	1ng	cDNA	28.98	29.30	29.14
SYBR	NR6A1	Unkn	100ng	cDNA	28.05	25.86	26.95
SYBR	NR6A1	NTC	NTC	NTC	N/A	N/A	N/A

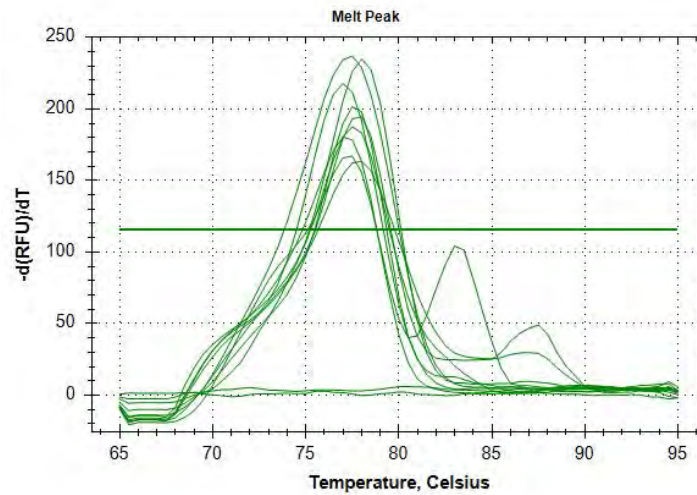


**Figure 22.1: NR6A1 Amplification curve**





**Figure 22.2: NR6A1 melt curve**

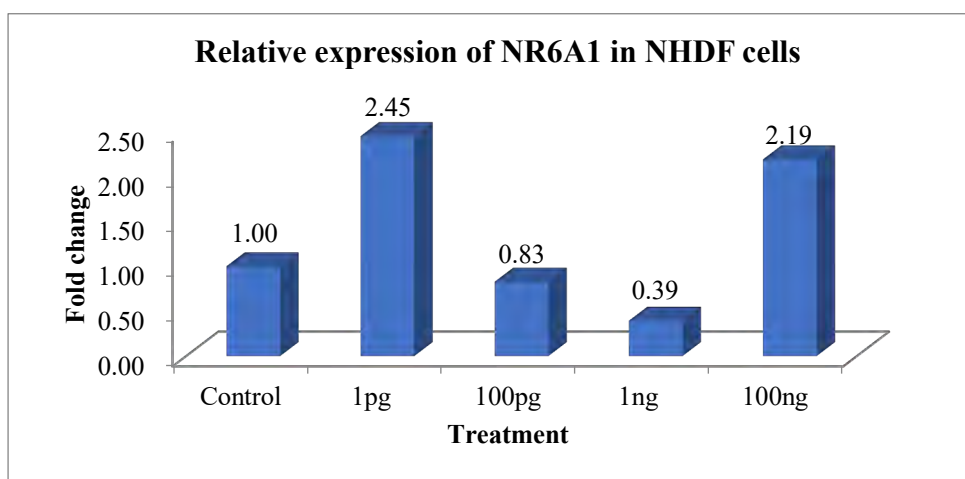


**Figure 22.3: NR6A1 melt peak**

**Table 22: Relative expression of NR6A1 gene in NHDF cells**

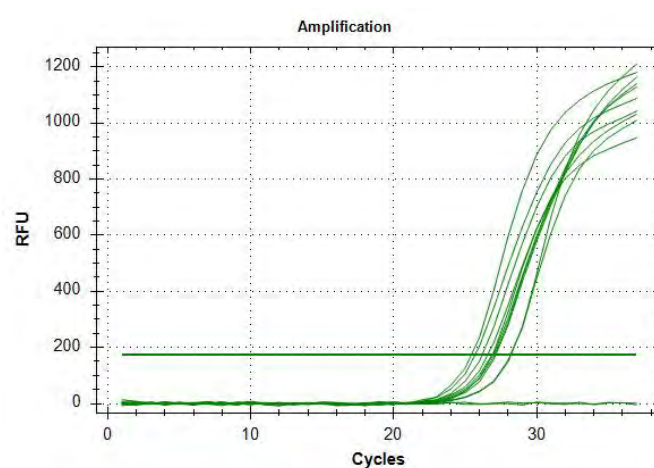
Sample	Actin	NR6A1	Delta ct	Delta Delta ct	Fold change $2^{\Delta\Delta ct}$
Control	20.46	27.42	7.34	0.000	1.00
1pg	21.47	27.13	7.51	0.173	0.89
100pg	20.87	28.10	7.68	0.341	0.79
1ng	20.84	29.14	8.95	1.618	0.33
100ng	21.13	26.95	6.99	-0.342	1.27



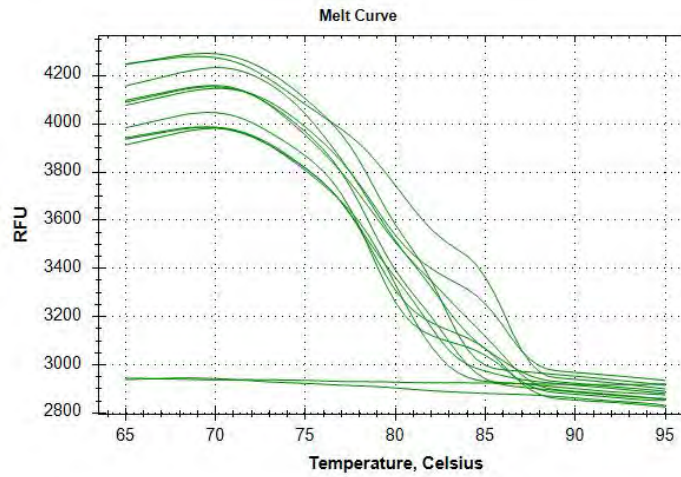


**Graph 22: Relative expression of NR6A1 in NHDF cells**

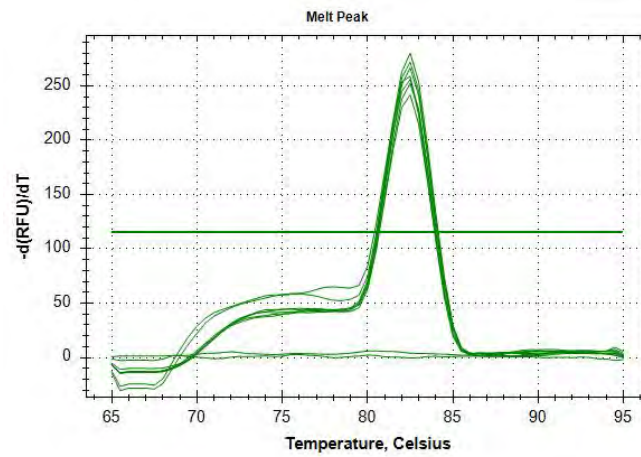
Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq	Mean Cq
SYBR	NR4A1	Unkn	Control	cDNA	26.97	27.15	27.06
SYBR	NR4A1	Unkn	1pg	cDNA	27.07	26.58	26.83
SYBR	NR4A1	Unkn	100pg	cDNA	28.21	25.45	26.83
SYBR	NR4A1	Unkn	1ng	cDNA	28.18	26.90	27.54
SYBR	NR4A1	Unkn	100ng	cDNA	25.70	26.20	25.95
SYBR	NR4A1	NTC	NTC	NTC	NA	NA	0.00



**Figure 23.1: NR4A1 Amplification curve**



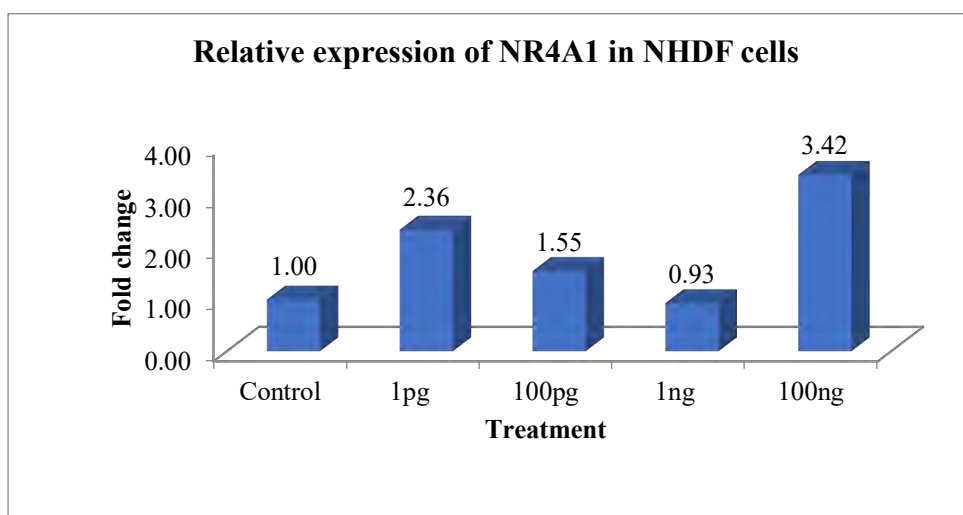
**Figure 23.2: NR4A1 melt curve**



**Figure 23.3: NR4A1 melt peak**

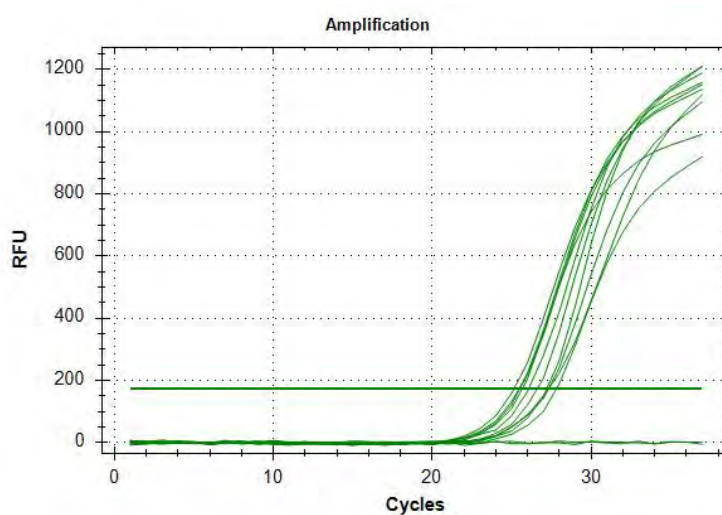
**Table 23: Relative expression of NR4A1 gene in NHDF cells**

Sample	Actin	NR4A1	Delta ct	Delta Delta ct	Fold change $2^{\Delta\Delta Ct}$
Control	20.46	27.06	6.60	0.00	1.00
1pg	21.47	26.83	5.36	-1.24	2.36
100pg	20.87	26.83	5.96	-0.64	1.55
1ng	20.84	27.54	6.70	0.10	0.93
100ng	21.13	25.95	4.82	-1.78	3.42

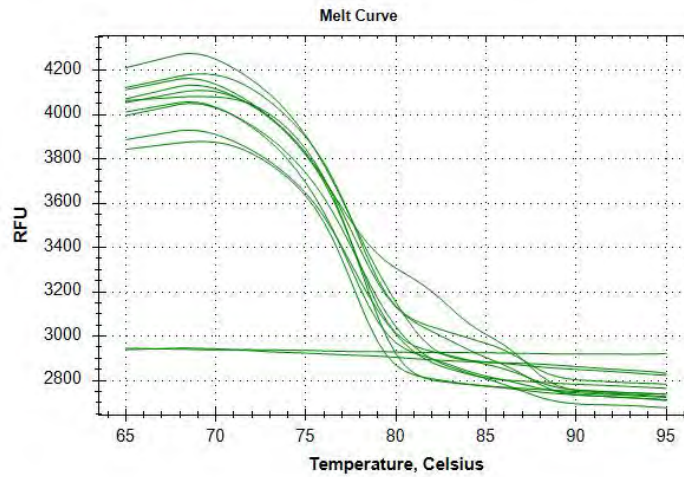


**Graph 23: Relative expression of NR4A1 in NHDF cells**

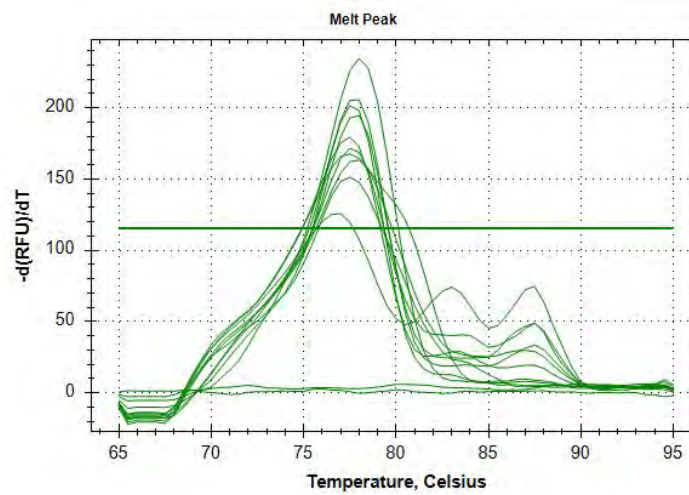
Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq	Mean Cq
SYBR	NR1A1	Unkn	Control	cDNA	25.49	25.51	25.50
SYBR	NR1A1	Unkn	1pg	cDNA	27.33	25.16	26.25
SYBR	NR1A1	Unkn	100pg	cDNA	26.18	27.22	26.20
SYBR	NR1A1	Unkn	1ng	cDNA	27.83	25.67	26.75
SYBR	NR1A1	Unkn	100ng	cDNA	27.33	26.08	26.71
SYBR	NR1A1	NTC	NTC	NTC	NA	NA	0.00



**Figure 24.1: NR1A1 Amplification curve**



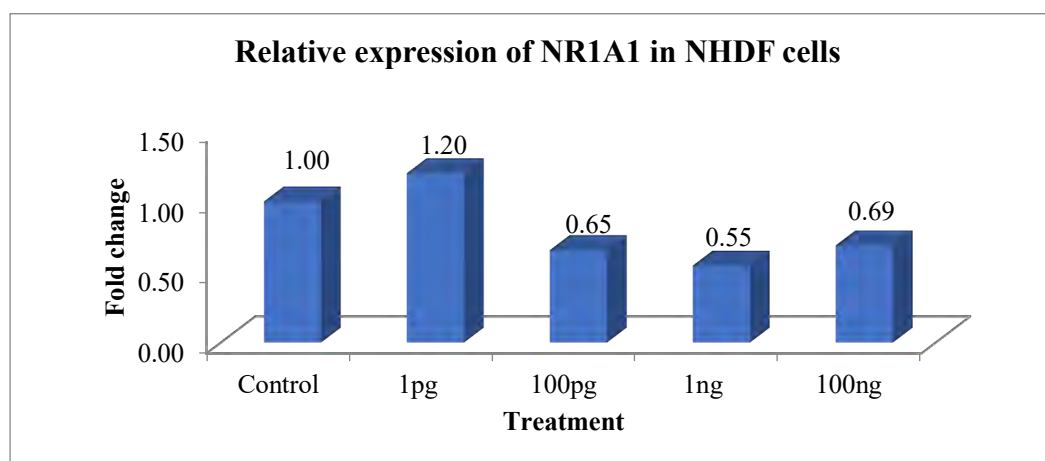
**Figure 24.2: NR1A1 melt curve**



**Figure 24.3: NR1A1 melt peak**

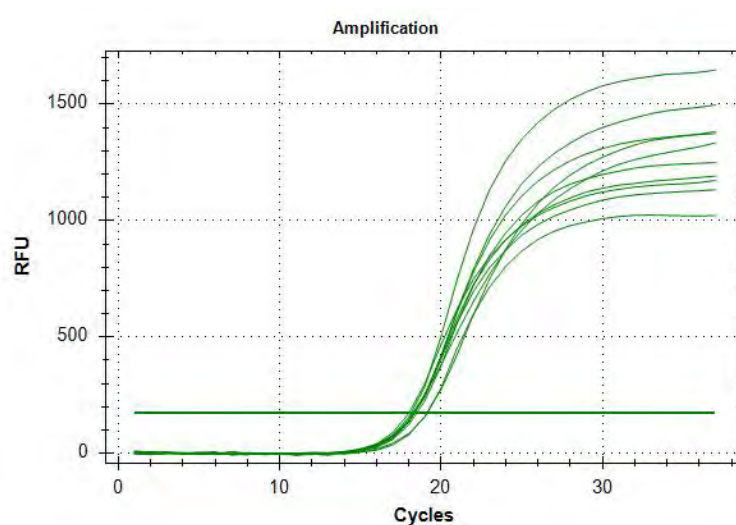
**Table 24: Relative expression of NR1A1 gene in NHDF cells**

Sample	Actin	NR1A1	Delta ct	Delta Delta ct	Fold change $2^{\Delta\Delta Ct}$
Control	20.46	25.50	5.04	0.00	1.00
1pg	21.47	26.25	4.78	-0.26	1.20
100pg	20.87	26.52	5.65	0.61	0.65
1ng	20.84	26.75	5.91	0.87	0.55
100ng	21.13	26.71	5.58	0.54	0.69

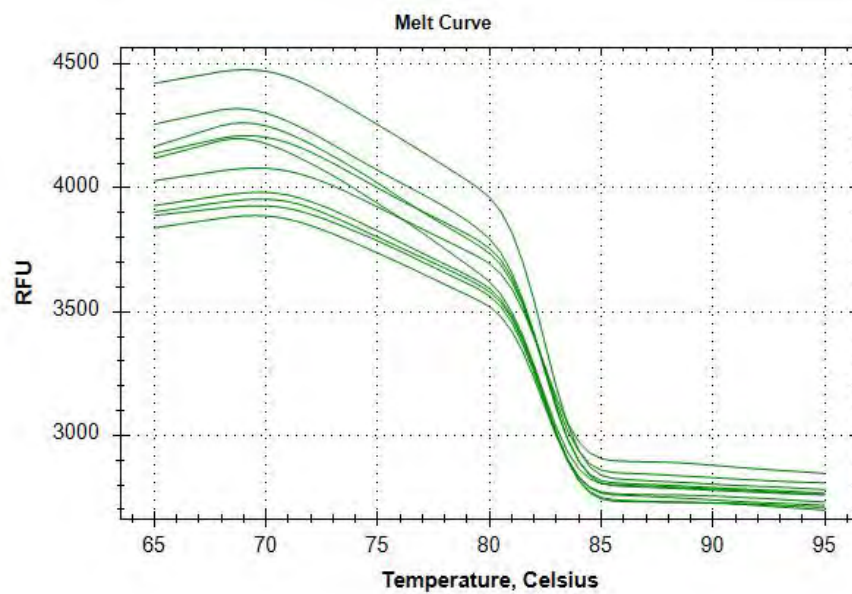


**Graph 24: Relative expression of NR1A1 in NHDF cells**

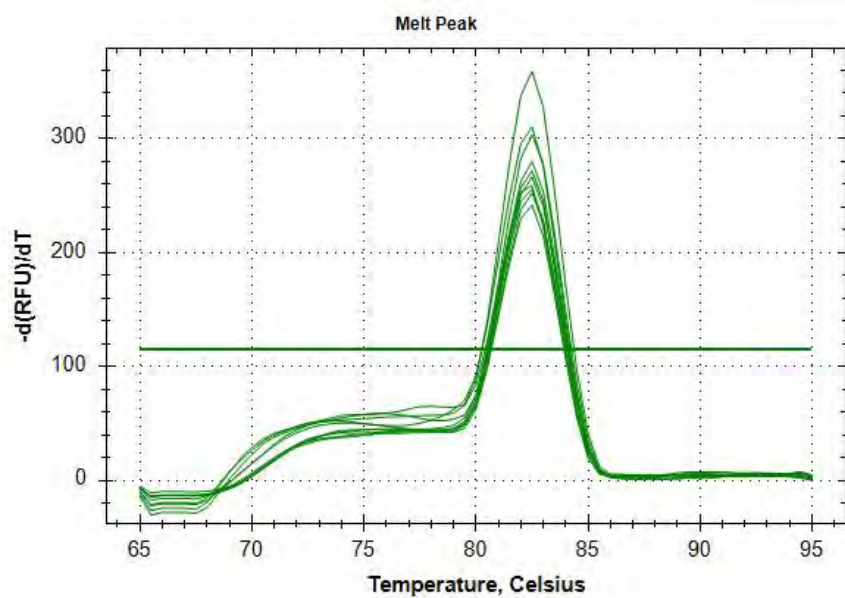
Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq	Mean Cq
SYBR	NR2C1	Unkn	Control	cDNA	18.15	18.31	18.23
SYBR	NR2C1	Unkn	1pg	cDNA	19.25	19.02	19.13
SYBR	NR2C1	Unkn	100pg	cDNA	18.35	18.49	18.42
SYBR	NR2C1	Unkn	1ng	cDNA	17.85	17.84	17.84
SYBR	NR2C1	Unkn	100ng	cDNA	19.15	19.12	19.14
SYBR	NR2C1	NTC	NTC	NTC	NA	NA	0.00



**Figure 25.1: NR2C1 Amplification curve**



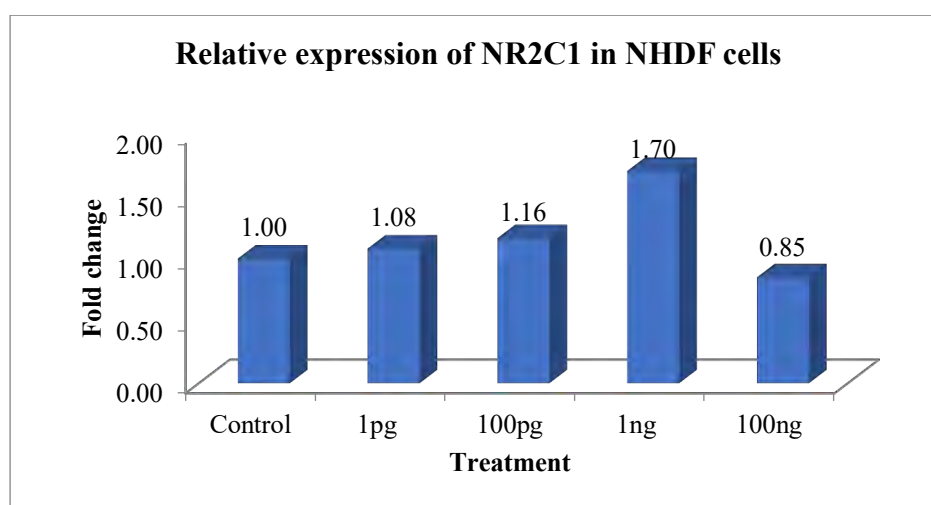
**Figure 25.2: NR2C1 melt curve**



**Figure 25.3: NR2C1 melt peak**

**Table 25: Relative expression of NR2C1 gene in NHDF cells**

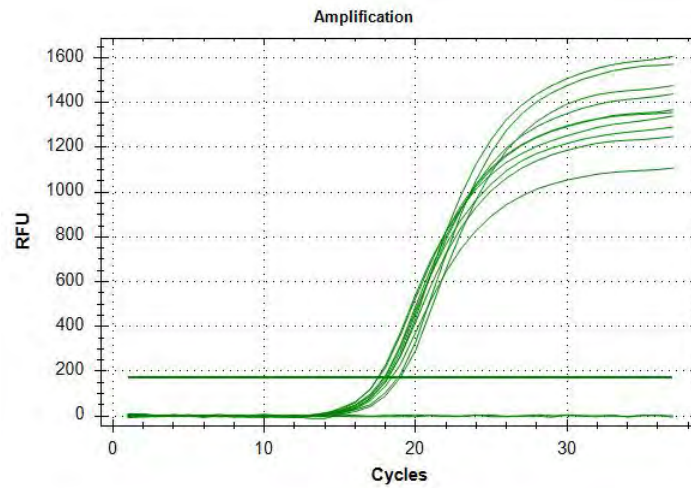
Sample	Actin	NR2C1	Delta ct	Delta Delta ct	Fold change 2 <sup>^</sup> DDct
Control	20.46	18.23	-2.23	0.00	1.00
1pg	21.47	19.13	-2.34	-0.11	1.08
100pg	20.87	18.42	-2.45	-0.22	1.16
1ng	20.84	17.84	-3.00	-0.77	1.70
100ng	21.13	19.14	-1.99	0.24	0.85



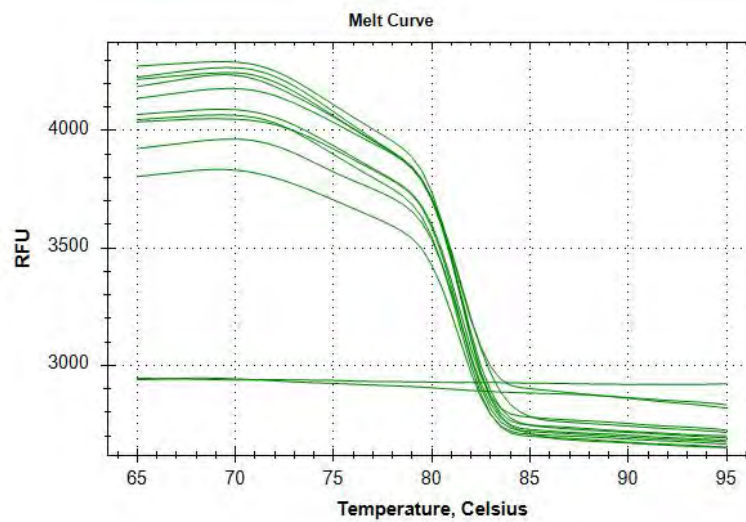
**Graph 25: Relative expression of NR2C1 in NHDF cells**

Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq	Mean Cq
SYBR	NR1A2	Unkn	Control	cDNA	18.10	18.20	18.15
SYBR	NR1A2	Unkn	1pg	cDNA	18.93	18.98	18.55
SYBR	NR1A2	Unkn	100pg	cDNA	18.21	18.43	18.32
SYBR	NR1A2	Unkn	1ng	cDNA	17.25	18.00	17.27
SYBR	NR1A2	Unkn	100ng	cDNA	19.01	18.86	18.94
SYBR	NR1A2	NTC	NTC	NTC	NA	NA	0.00

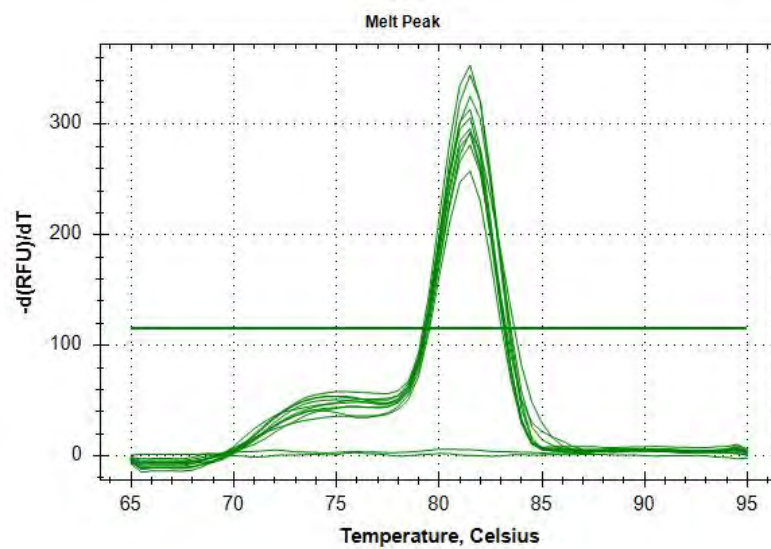




**Figure 26.1: NR1A2 Amplification curve**



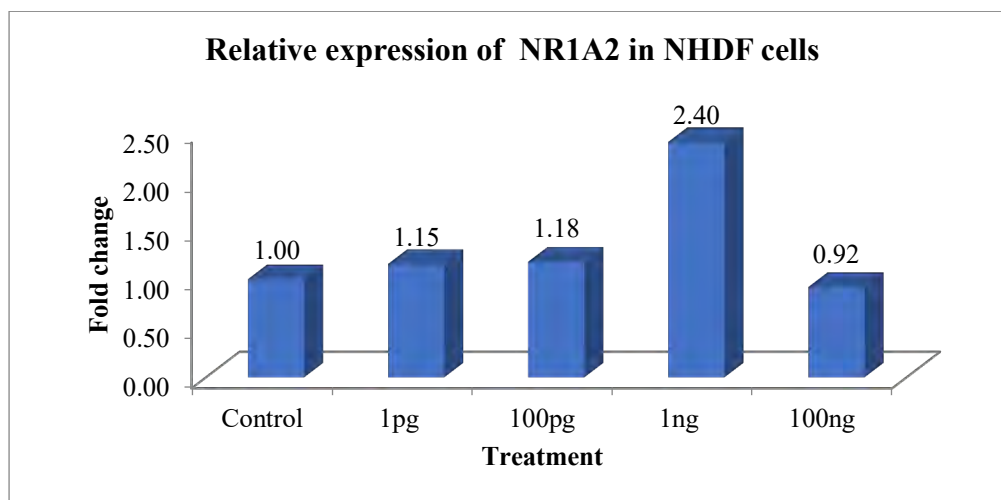
**Figure 26.2: NR1A2 melt curve**



**Figure 26.3: NR1A2 melt peak**

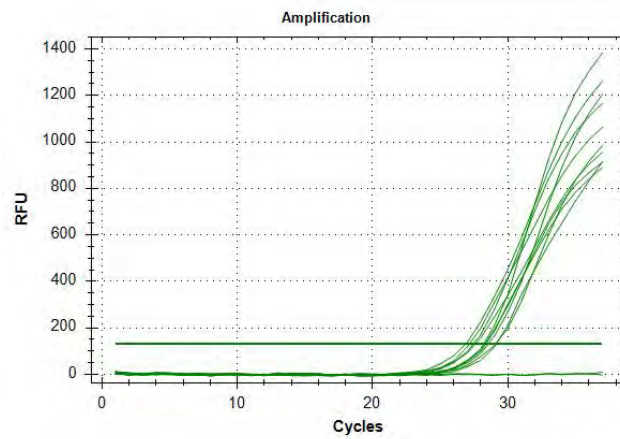
**Table 26: Relative expression of NR1A2 gene in NHDF cells**

Sample	Actin	NR1A2	Delta ct	Delta Delta ct	Fold change 2 <sup>^</sup> DDct
Control	20.46	18.15	-2.31	0.00	1.00
1pg	21.47	18.95	-2.52	-0.21	1.15
100pg	20.87	18.32	-2.55	-0.24	1.18
1ng	20.84	17.27	-3.57	-1.26	2.40
100ng	21.13	18.94	-2.19	0.12	0.92

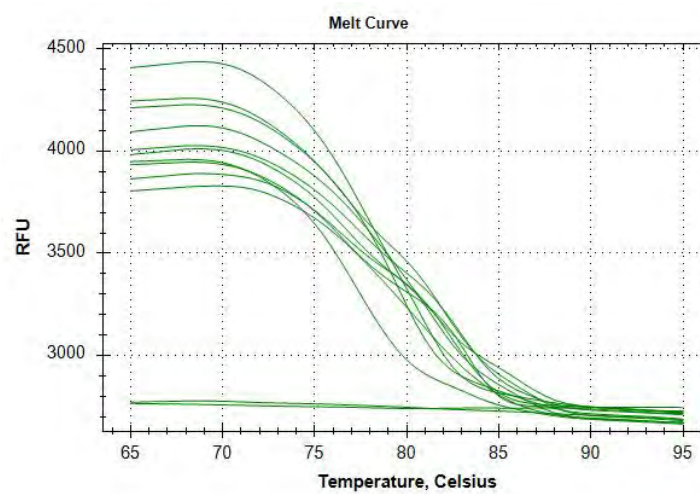


**Graph 26: Relative expression of NR1A2 in NHDF cells**

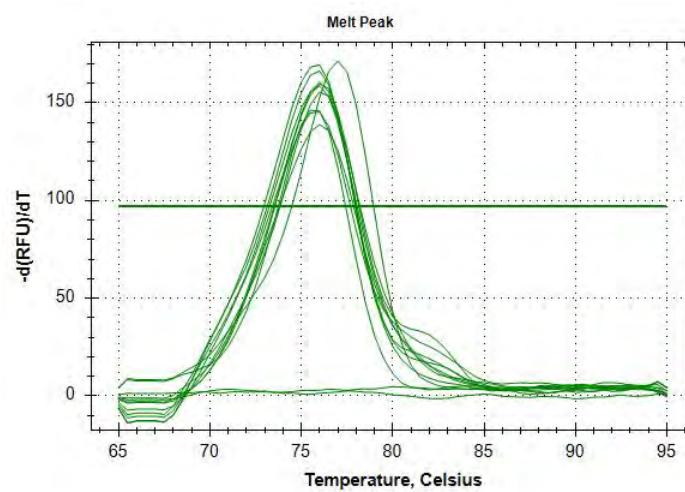
Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq	Mean Cq
SYBR	NR1C1	Unkn	Control	cDNA	28.24	27.64	27.94
SYBR	NR1C1	Unkn	1pg	cDNA	26.92	29.13	28.02
SYBR	NR1C1	Unkn	100pg	cDNA	28.60	27.49	28.04
SYBR	NR1C1	Unkn	1ng	cDNA	28.41	29.17	28.79
SYBR	NR1C1	Unkn	100ng	cDNA	27.19	28.33	27.76
SYBR	NR1C1	NTC	NTC	NTC	N/A	N/A	N/A



**Figure 27.1: NR1C1 Amplification curve**



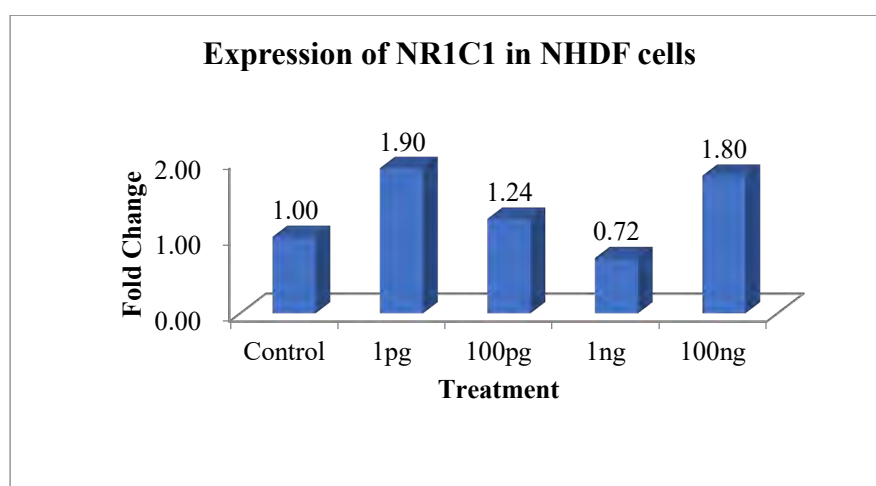
**Figure 27.2: NR1C1 melt curve**



**Figure 27.3: NR1C1 melt peak**

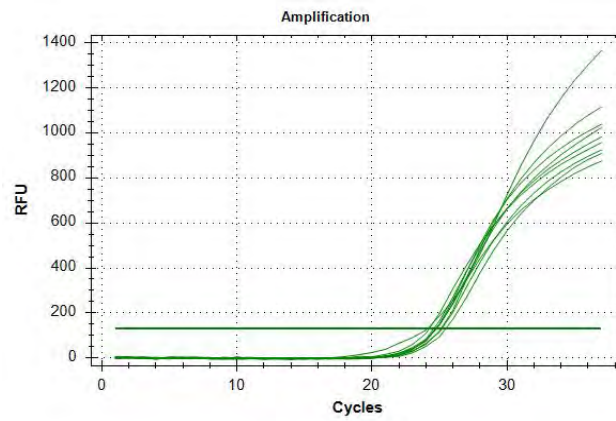
**Table 27: Relative expression of NR1C1 gene in NHDF cells**

Sample	Actin	NR1C1	Delta ct	Delta Delta ct	Fold change 2 <sup>^</sup> DDct
Control	20.46	27.94	7.48	0.00	1.00
1pg	21.47	28.02	6.55	-0.93	1.90
100pg	20.87	28.04	7.17	-0.31	1.24
1ng	20.84	28.79	7.95	0.47	0.72
100ng	21.13	27.76	6.63	-0.85	1.80

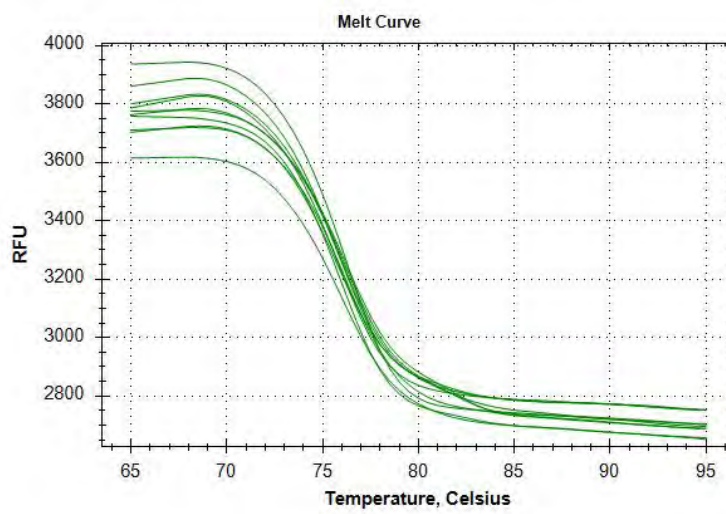


**Graph 27: Relative expression of NR1C1 in NHDF cells**

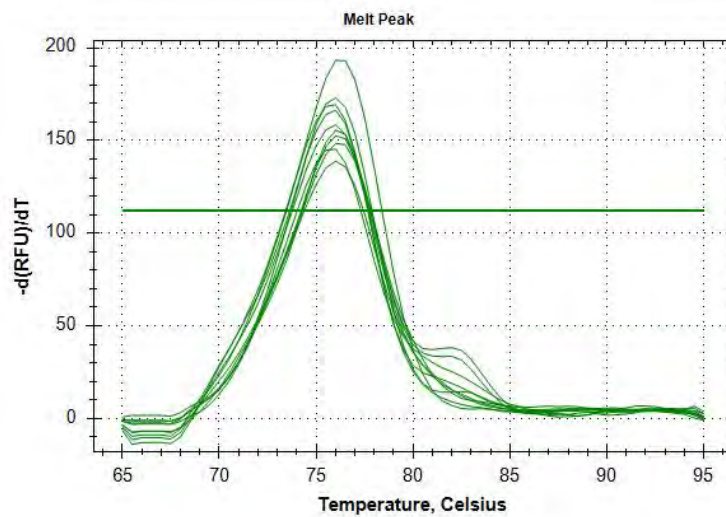
Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq	Mean Cq
SYBR	NR1F1	Unkn	Control	cDNA	24.27	25.20	24.74
SYBR	NR1F1	Unkn	1pg	cDNA	24.79	25.50	25.14
SYBR	NR1F1	Unkn	100pg	cDNA	25.15	24.76	24.95
SYBR	NR1F1	Unkn	1ng	cDNA	24.61	24.81	24.71
SYBR	NR1F1	Unkn	100ng	cDNA	20.40	20.38	20.39
SYBR	NR1F1	NTC	NTC	NTC	N/A	N/A	N/A



**Figure 28.1: NR1F1 Amplification curve**



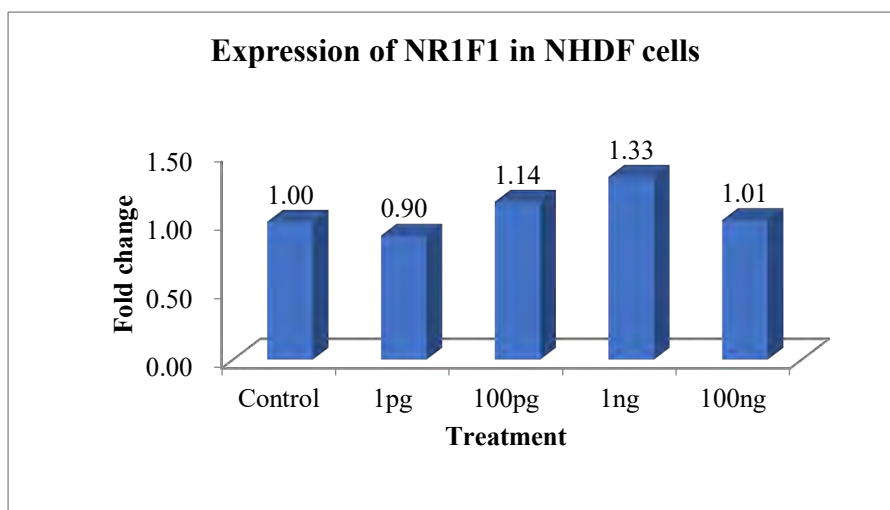
**Figure 28.2: NR1F1 melt curve**



**Figure 28.3: NR1F1 melt peak**

**Table 28: Relative expression of NR1F1 gene in NHDF cells**

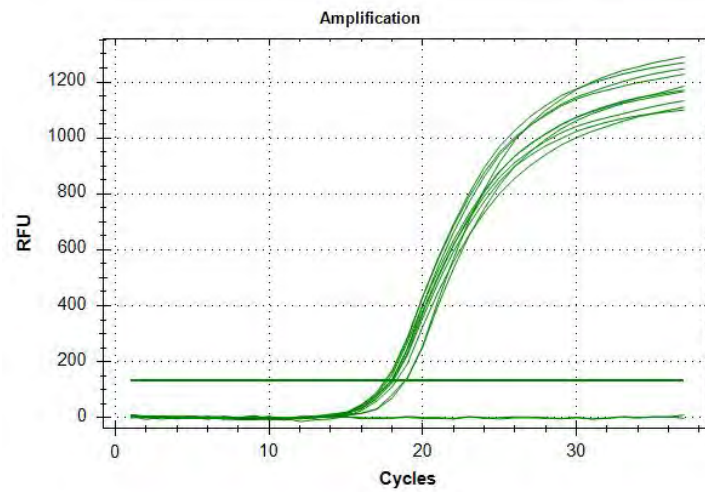
Sample	Actin	NR1F1	Delta ct	Delta Delta ct	Fold change 2 <sup>^</sup> DDct
Control	20.46	24.74	4.28	0.00	1.00
1pg	21.47	25.90	4.43	0.15	0.90
100pg	20.87	24.95	4.08	-0.20	1.14
1ng	20.84	24.71	3.87	-0.41	1.33
100ng	21.13	25.39	4.26	-0.02	1.01



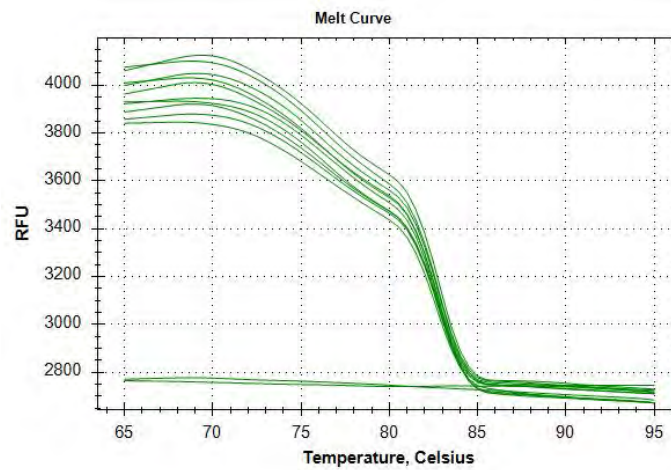
**Graph 28: Relative expression of NR1F1 in NHDF cells**

Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq	Mean Cq
SYBR	NR1H4	Unkn	Control	cDNA	17.94	18.04	17.99
SYBR	NR1H4	Unkn	1pg	cDNA	17.54	17.61	17.57
SYBR	NR1H4	Unkn	100pg	cDNA	17.73	18.28	18.00
SYBR	NR1H4	Unkn	1ng	cDNA	17.97	18.08	18.03
SYBR	NR1H4	Unkn	100ng	cDNA	18.88	18.84	18.86
SYBR	NR1H4	NTC	NTC	NTC	N/A	N/A	N/A

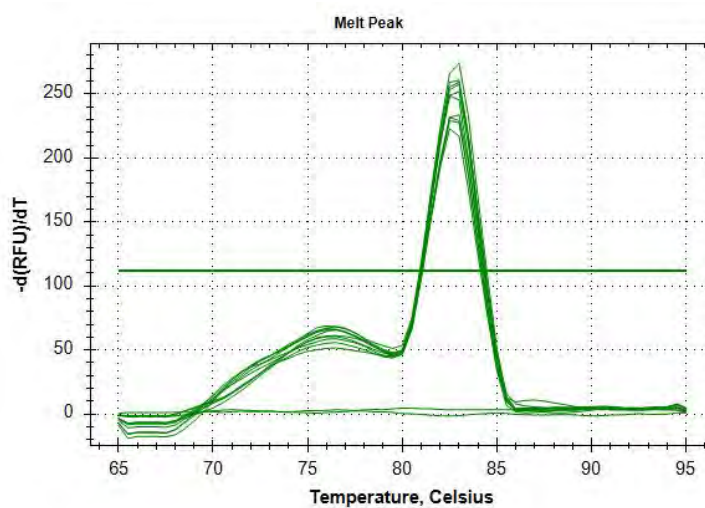




**Figure 29.1: NR1H4R Amplification curve**



**Figure 29.2: NR1H4R melt curve**

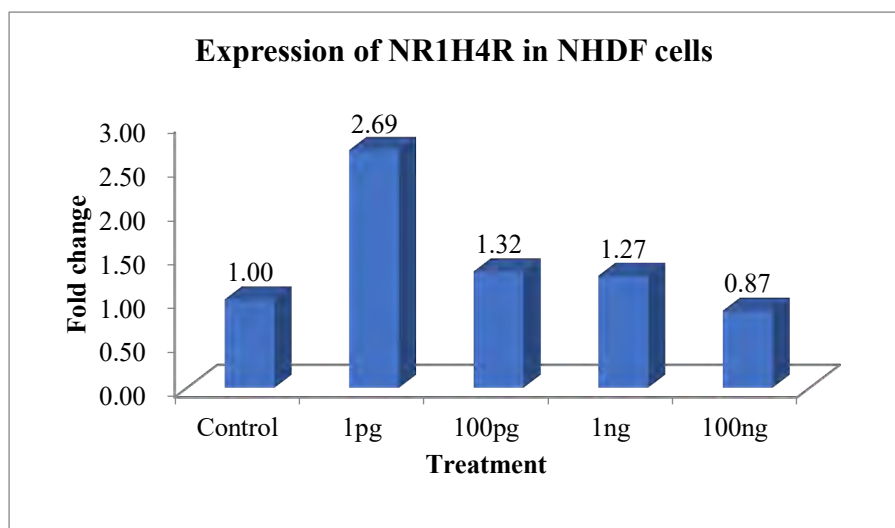


**Figure 29.3: NR1H4R melt peak**

**Table 29: Relative expression of NR1H4R gene in NHDF cells**

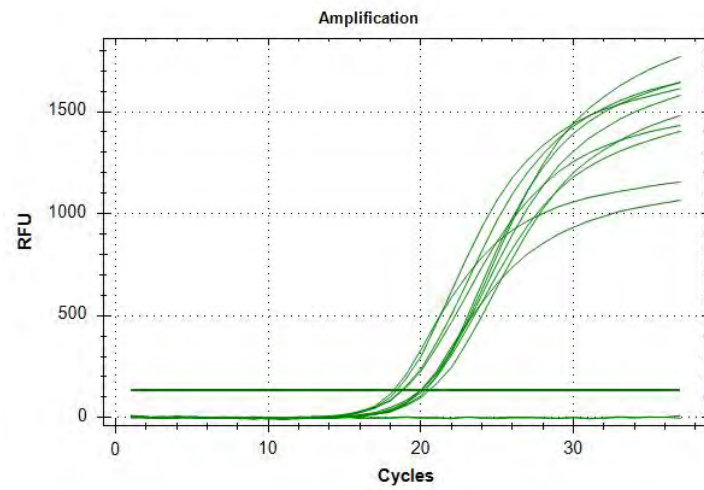


Sample	Actin	NR1H4R	Delta ct	Delta Delta ct	Fold change 2 <sup>^</sup> DDct
Control	20.46	17.99	-2.47	0.00	1.00
1pg	21.47	17.57	-3.90	-1.43	2.69
100pg	20.87	18.00	-2.87	-0.40	1.32
1ng	20.84	18.03	-2.81	-0.34	1.27
100ng	21.13	18.86	-2.27	0.20	0.87

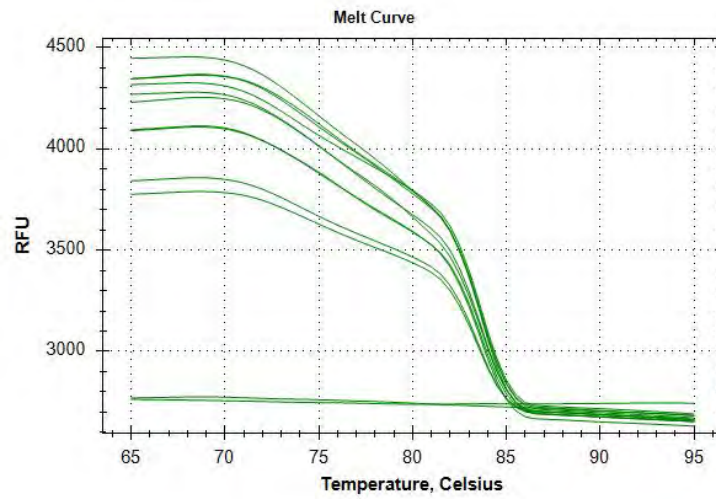


**Graph 29: Relative expression of NR1H4R in NHDF cells**

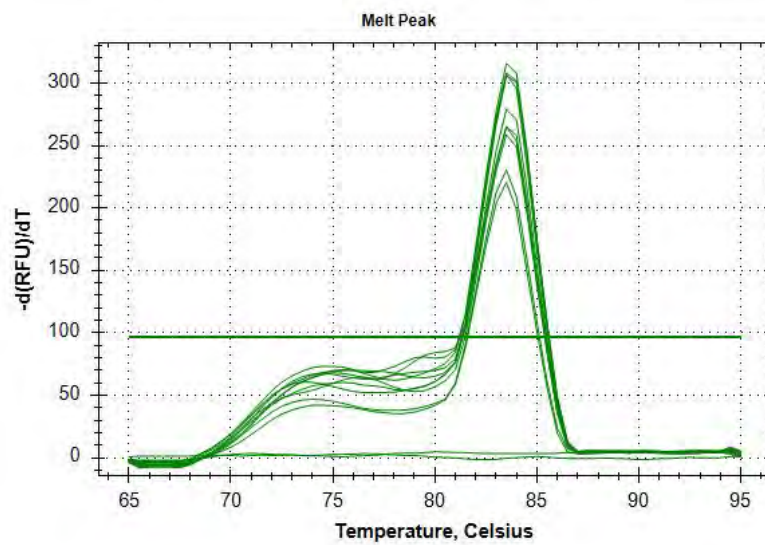
Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq	Mean Cq
SYBR	NR2A1	Unkn	Control	cDNA	20.52	20.13	20.33
SYBR	NR2A1	Unkn	1pg	cDNA	18.70	18.79	18.74
SYBR	NR2A1	Unkn	100pg	cDNA	19.97	19.99	19.98
SYBR	NR2A1	Unkn	1ng	cDNA	18.38	18.18	18.28
SYBR	NR2A1	Unkn	100ng	cDNA	20.29	19.98	20.13
SYBR	NR2A1	NTC	NTC	NTC	N/A	N/A	N/A



**Figure 30.1: NR2A1 Amplification curve**



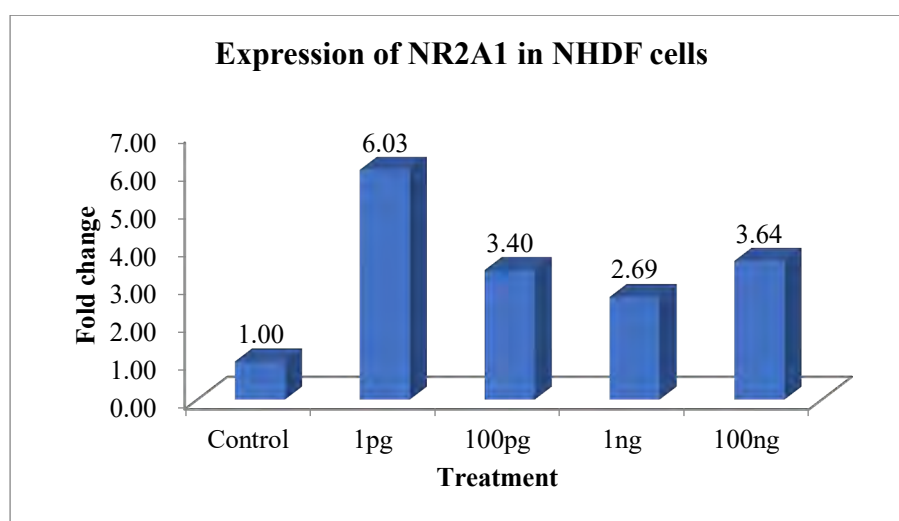
**Figure 30.2: NR2A1 melt curve**



**Figure 30.3: NR2A1 melt peak**

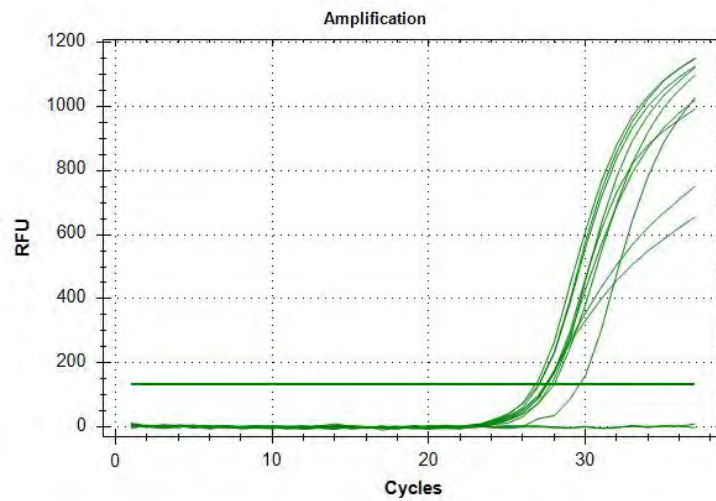
**Table 30: Relative expression of NR2A1 gene in NHDF cells**

Sample	Actin	NR2A1	Delta ct	Delta Delta ct	Fold change $2^{\Delta\Delta Ct}$
Control	20.46	20.33	-0.13	0.00	1.00
1pg	21.47	18.74	-2.73	-2.59	6.03
100pg	20.87	18.97	-1.90	-1.77	3.40
1ng	20.84	19.28	-1.56	-1.43	2.69
100ng	21.13	19.13	-2.00	-1.87	3.64

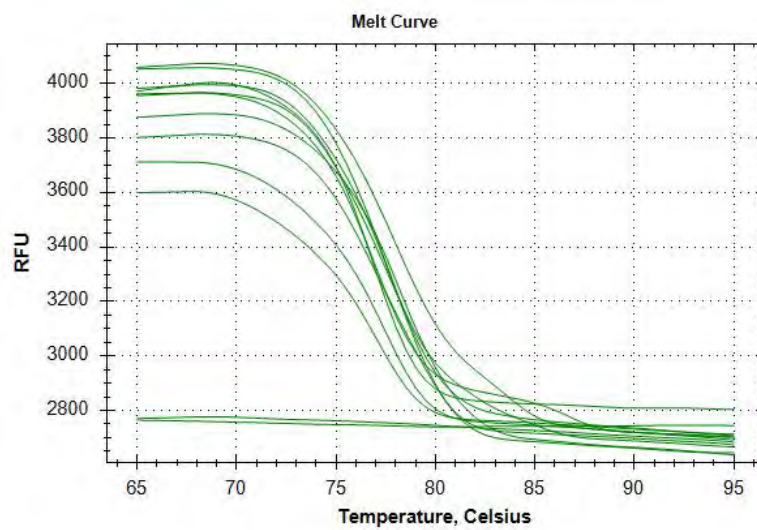


**Graph 30: Relative expression of NR2A1 in NHDF cells**

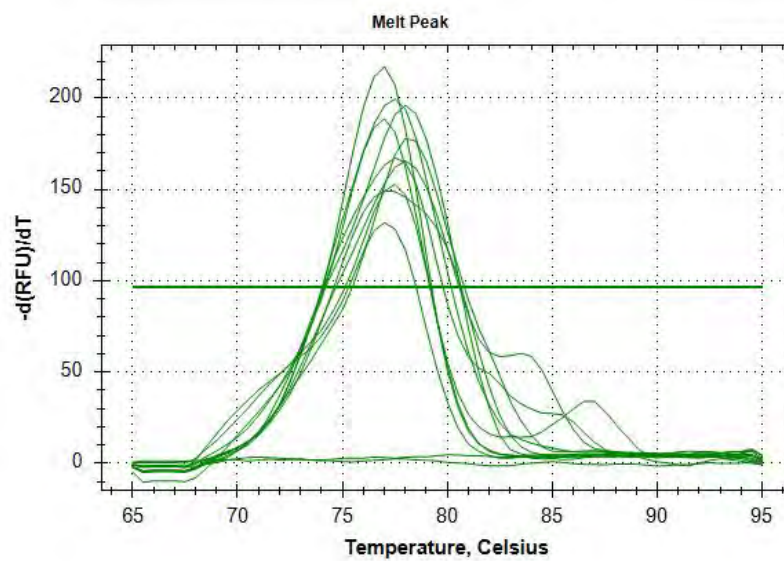
Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq	Mean Cq
SYBR	NR2A2	Unkn	Control	cDNA	27.03	27.54	27.28
SYBR	NR2A2	Unkn	1pg	cDNA	26.82	27.56	27.19
SYBR	NR2A2	Unkn	100pg	cDNA	27.04	27.39	27.22
SYBR	NR2A2	Unkn	1ng	cDNA	27.38	27.42	27.40
SYBR	NR2A2	Unkn	100ng	cDNA	29.06	26.92	26.99
SYBR	NR2A2	NTC	NTC	NTC	N/A	N/A	N/A



**Figure 31.1: NR2A2 Amplification curve**



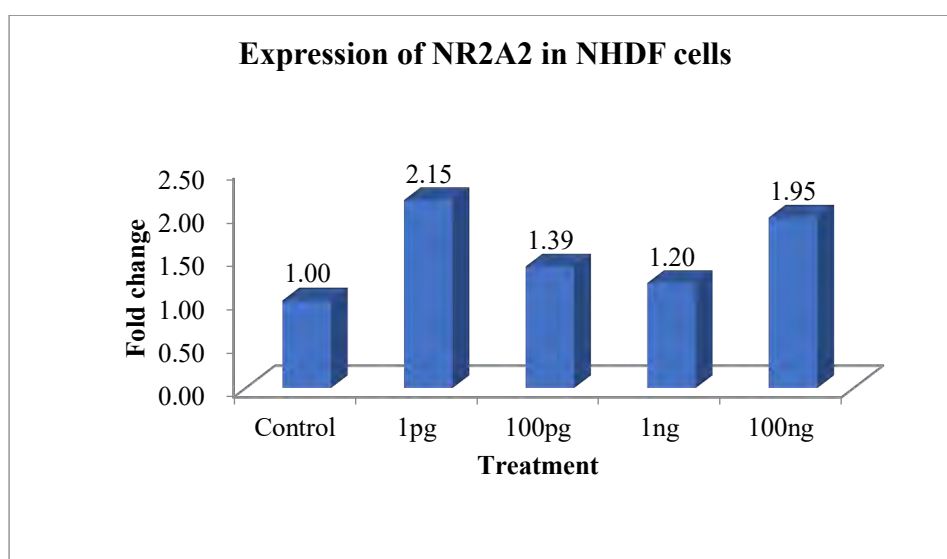
**Figure 31.2: NR2A2 melt curve**



**Figure 31.3: NR2A2 melt peak**

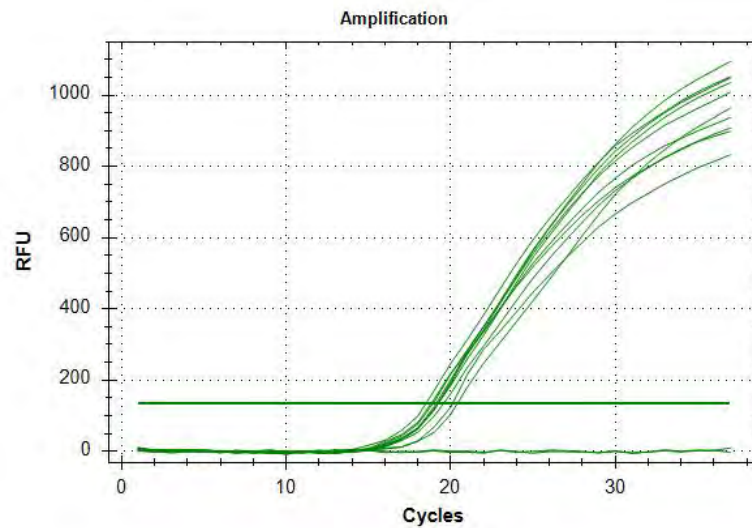
**Table 31: Relative expression of NR2A2 gene in NHDF cells**

Sample	Actin	NR2A2	Delta ct	Delta Delta ct	Fold change 2 <sup>^</sup> DDct
Control	20.46	27.28	6.82	0.00	1.00
1pg	21.47	27.19	5.72	-1.10	2.15
100pg	20.87	27.22	6.35	-0.47	1.39
1ng	20.84	27.40	6.56	-0.26	1.20
100ng	21.13	26.99	5.86	-0.96	1.95

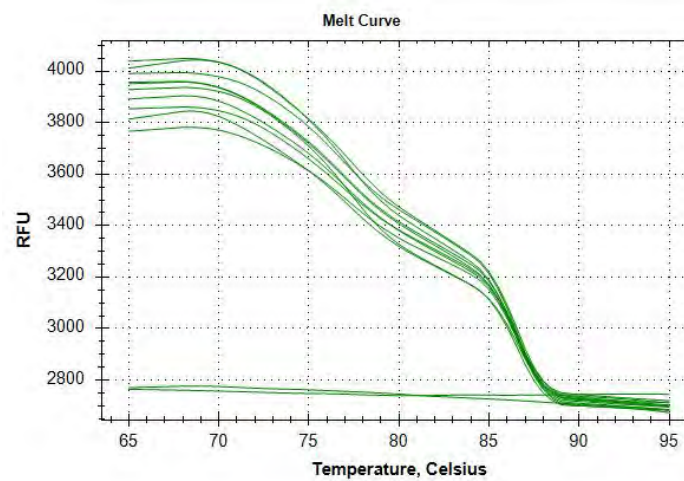


**Graph 31: Relative expression of NR2A2 in NHDF cells**

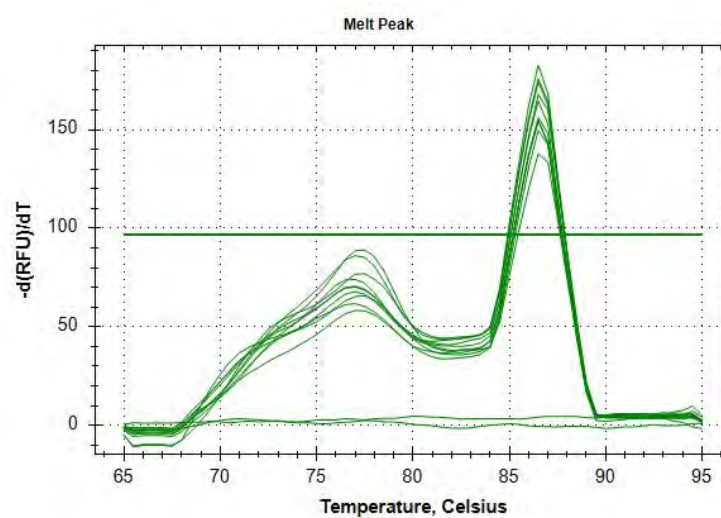
Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq	Mean Cq
SYBR	NR2E1	Unkn	Control	cDNA	19.22	19.54	19.38
SYBR	NR2E1	Unkn	1pg	cDNA	18.48	18.79	18.64
SYBR	NR2E1	Unkn	100pg	cDNA	19.22	19.21	19.21
SYBR	NR2E1	Unkn	1ng	cDNA	18.91	19.10	19.00
SYBR	NR2E1	Unkn	100ng	cDNA	20.39	20.10	20.24
SYBR	NR2E1	NTC	NTC	NTC	N/A	N/A	N/A



**Figure 32.1: NR2E1 Amplification curve**



**Figure 32.2: NR2E1 melt curve**

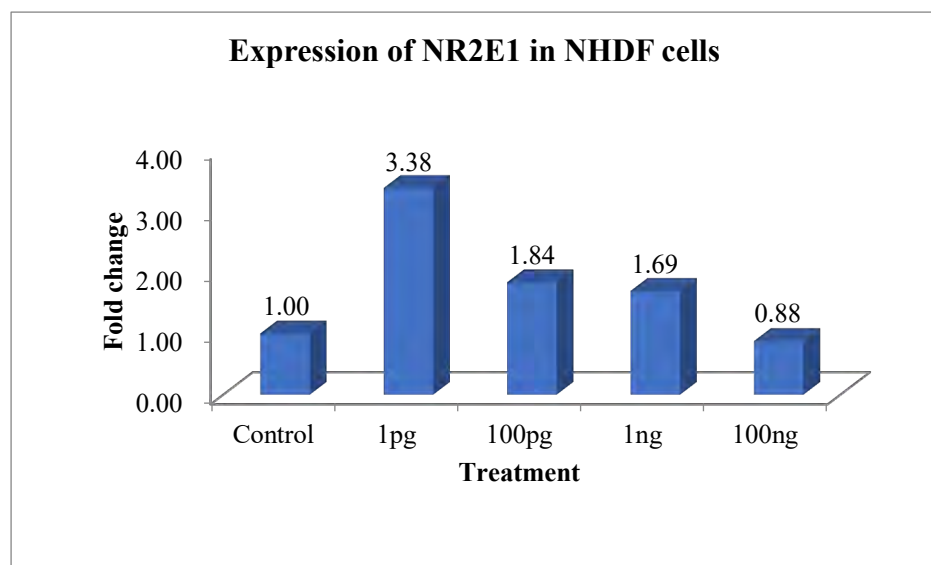


**Figure 32.3: NR2E1 melt peak**

**Table 32: Relative expression of NR2E1 gene in NHDF cells**



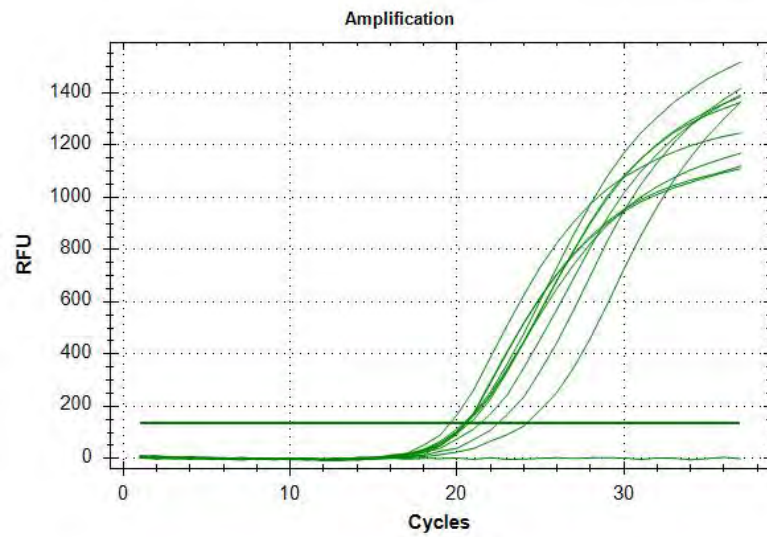
Sample	Actin	NR2E1	Delta ct	Delta Delta ct	Fold change 2 <sup>^</sup> DDct
Control	20.46	19.38	-1.08	0.00	1.00
1pg	21.47	18.64	-2.83	-1.76	3.38
100pg	20.87	18.91	-1.96	-0.88	1.84
1ng	20.84	19.00	-1.84	-0.76	1.69
100ng	21.13	20.24	-0.89	0.19	0.88



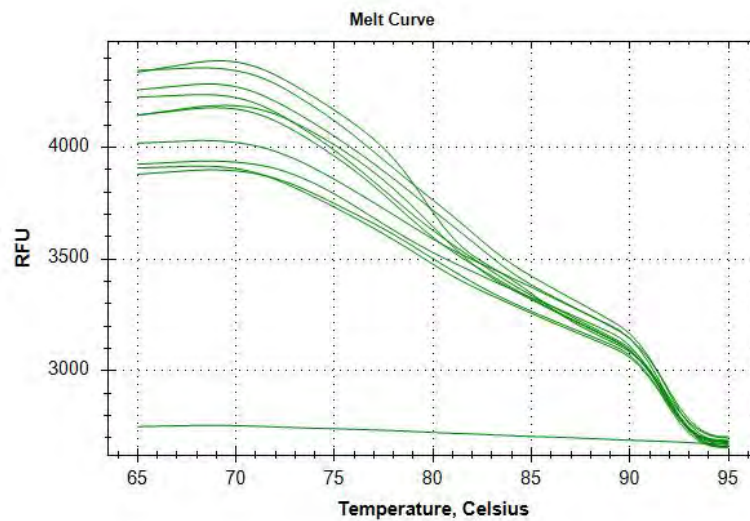
**Graph 32: Relative expression of NR2E1 in NHDF cells**

Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq	Mean Cq
SYBR	NR4A2	Unkn	Control	cDNA	24.15	21.36	22.75
SYBR	NR4A2	Unkn	1pg	cDNA	21.36	21.51	20.43
SYBR	NR4A2	Unkn	100pg	cDNA	19.70	21.43	21.57
SYBR	NR4A2	Unkn	1ng	cDNA	19.56	20.47	20.02
SYBR	NR4A2	Unkn	100ng	cDNA	20.46	20.51	20.49
SYBR	NR4A2	NTC	NTC	NTC	N/A	N/A	N/A

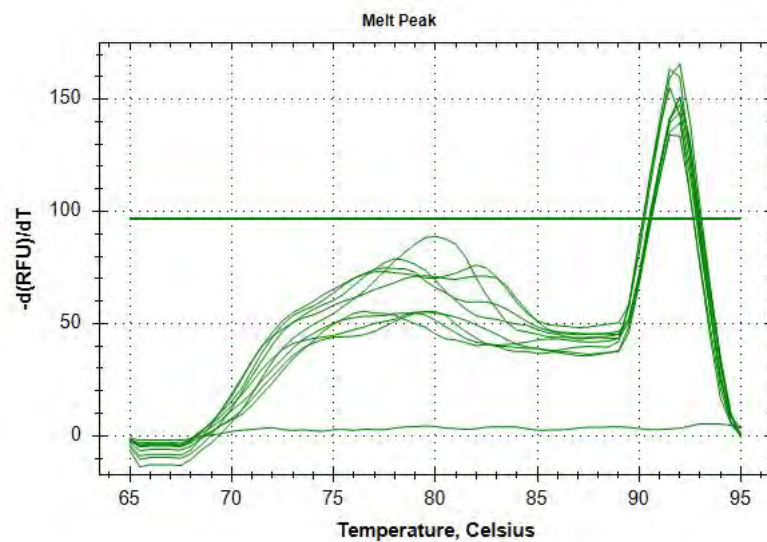




**Figure 33.1: NR4A2 Amplification curve**



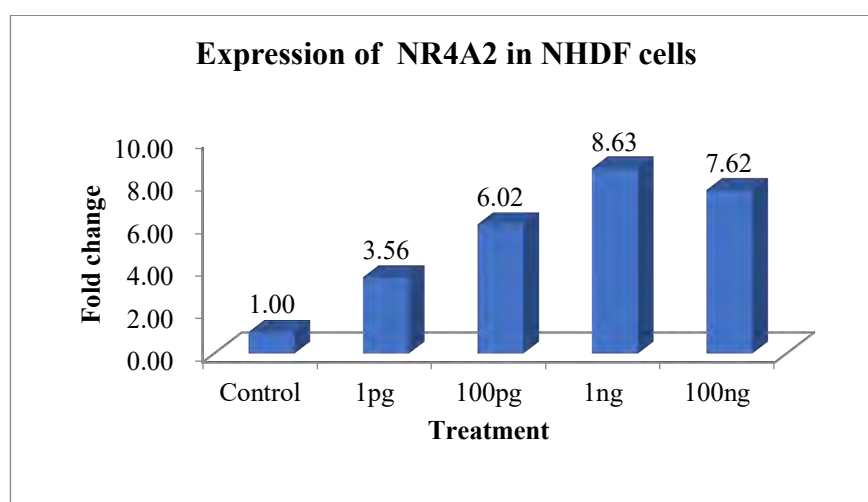
**Figure 33.2: NR4A2 melt curve**



**Figure 33.3: NR4A2 melt peak**

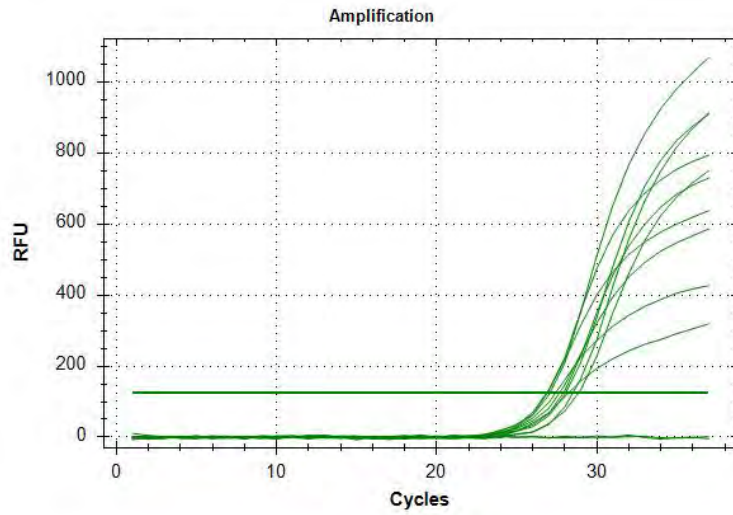
**Table 33: Relative expression of NR4A2gene in NHDF cells**

Sample	Actin	NR4A2	Delta ct	Delta Delta ct	Fold change 2 <sup>^</sup> DDct
Control	20.46	22.75	2.29	0.00	1.00
1pg	21.47	21.93	0.46	-1.830	3.56
100pg	20.87	20.57	-0.30	-2.59	6.02
1ng	20.84	20.02	-0.82	-3.11	8.63
100ng	21.13	20.49	-0.64	-2.93	7.62

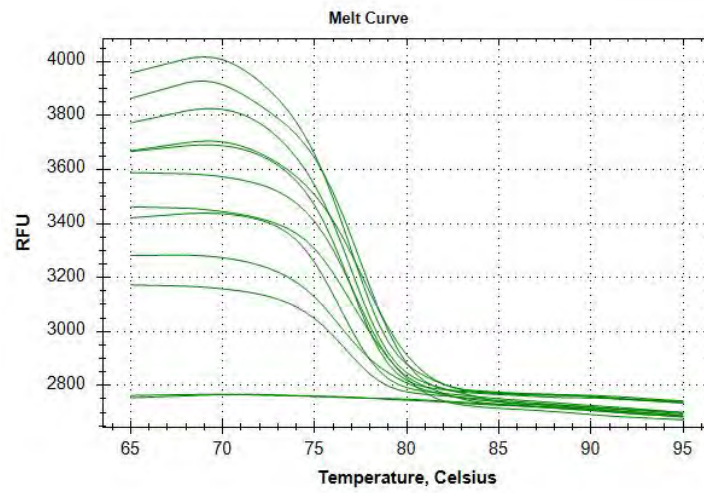


**Graph 33: Relative expression of NR3A2 in NHDF cells**

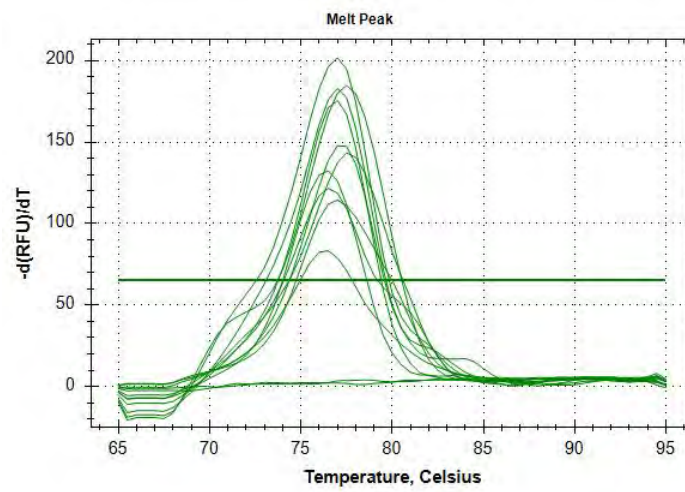
Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq	Mean Cq
SYBR	NR3A2	Unkn	Control	cDNA	28.51	27.68	28.10
SYBR	NR3A2	Unkn	1pg	cDNA	27.08	27.92	27.50
SYBR	NR3A2	Unkn	100pg	cDNA	26.93	26.88	26.90
SYBR	NR3A2	Unkn	1ng	cDNA	28.87	27.44	28.16
SYBR	NR3A2	Unkn	100ng	cDNA	28.07	28.27	28.17
SYBR	NR3A2	NTC	ntc	NTC	N/A	N/A	N/A



**Figure 34.1: NR3A2 Amplification curve**



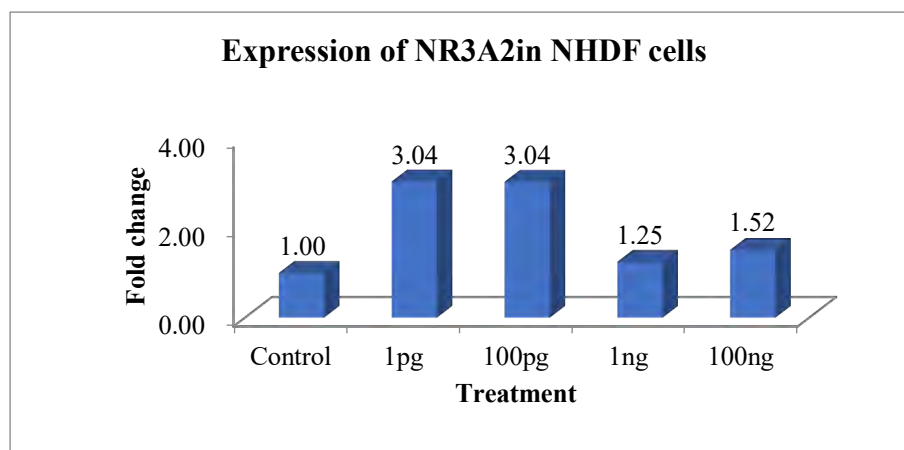
**Figure 34.2: NR3A2 melt curve**



**Figure 34.3: NR3A2 melt peak**

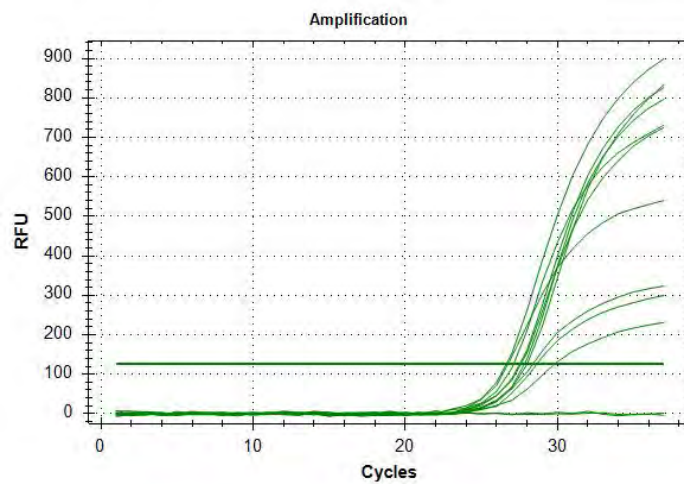
**Table 34: Relative expression of NR3A2 gene in NHDF cells**

Sample	Actin	NR3A2	Delta ct	Delta Delta ct	Fold change 2 <sup>^</sup> DDct
Control	20.46	28.10	7.64	0.00	1.00
1pg	21.47	27.50	6.03	-1.60	3.04
100pg	20.87	26.90	6.03	-1.60	3.04
1ng	20.84	28.16	7.32	-0.32	1.25
100ng	21.13	28.17	7.04	-0.60	1.52

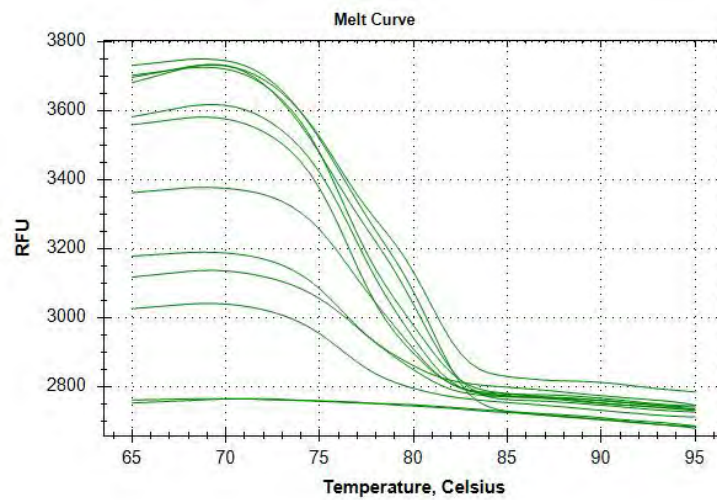


**Graph 34: Relative expression of NR3A2 in NHDF cells**

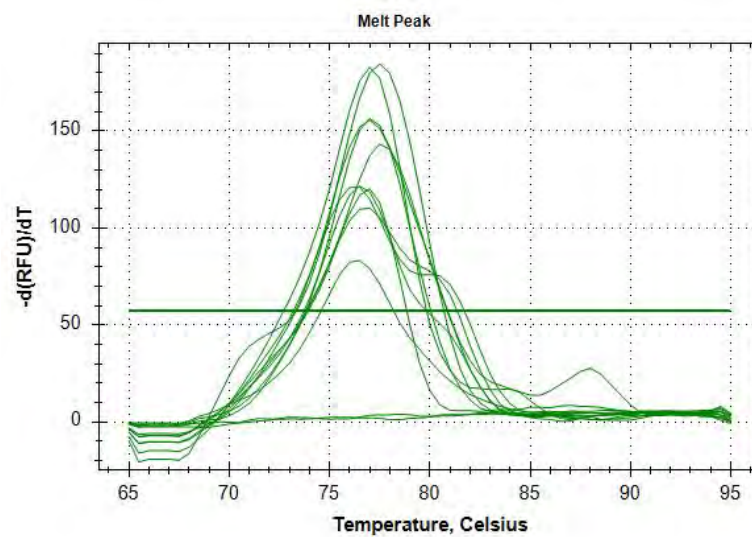
Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq	Mean Cq
SYBR	NR3B2	Unkn	Control	cDNA	27.50	26.63	27.07
SYBR	NR3B2	Unkn	1pg	cDNA	27.18	29.20	28.19
SYBR	NR3B2	Unkn	100pg	cDNA	27.81	28.00	27.91
SYBR	NR3B2	Unkn	1ng	cDNA	28.63	28.37	28.50
SYBR	NR3B2	Unkn	100ng	cDNA	27.11	26.73	26.92
SYBR	NR3B2	NTC	ntc	NTC	N/A	N/A	N/A



**Figure 35.1: NR3B2 Amplification curve**



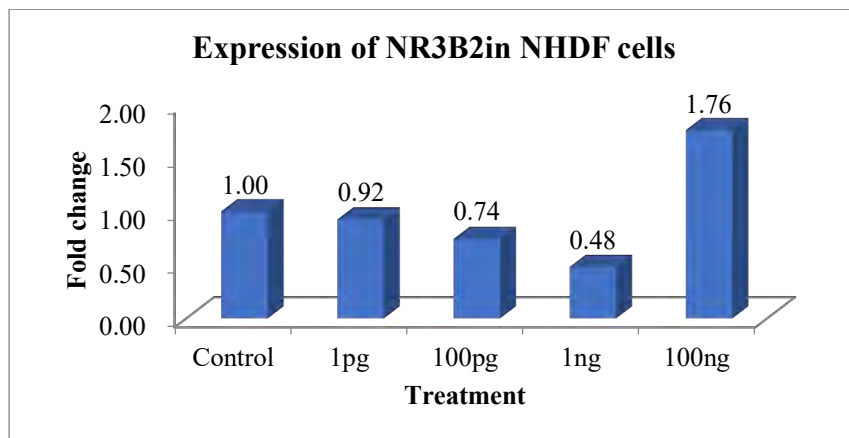
**Figure 35.2: NR3B2 melt curve**



**Figure 35.3: NR3B2 melt peak**

**Table 35: Relative expression of NR3B2 gene in NHDF cells**

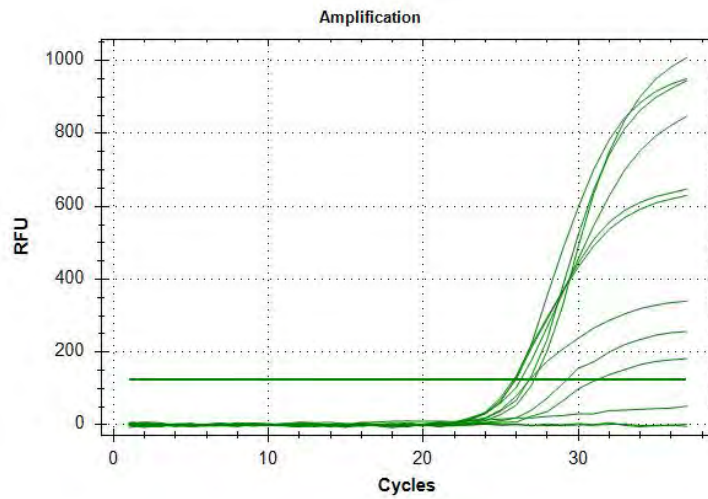
Sample	Actin	NR3B2	Delta ct	Delta Delta ct	Fold change 2 <sup>^</sup> DDct
Control	20.46	27.07	6.61	0.00	1.00
1pg	21.47	28.19	7.22	0.62	0.65
100pg	20.87	27.91	7.04	0.43	0.74
1ng	20.84	28.50	7.66	1.06	0.48
100ng	21.13	26.92	5.79	-0.81	1.76



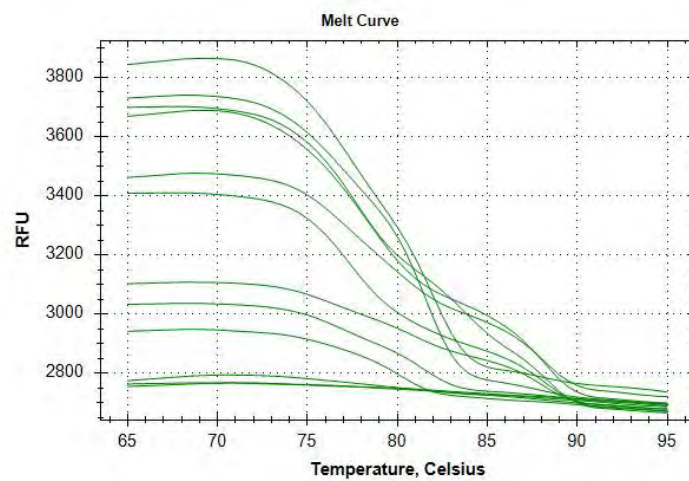
**Graph 35: Relative expression of NR3B2 in NHDF cells**

Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq	Mean Cq
SYBR	NR1B1	Unkn	Control	cDNA	26.30	26.90	26.60
SYBR	NR1B1	Unkn	1pg	cDNA	25.84	27.16	26.50
SYBR	NR1B1	Unkn	100pg	cDNA	26.84	31.29	29.06
SYBR	NR1B1	Unkn	1ng	cDNA	29.30	26.00	27.64
SYBR	NR1B1	Unkn	100ng	cDNA	25.93	28.44	27.18
SYBR	NR1B1	NTC	ntc	NTC	N/A	N/A	N/A

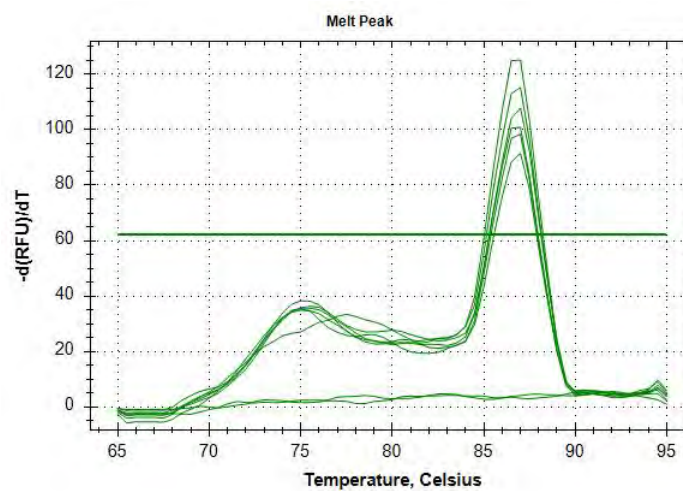




**Figure 36.1: NR1B1 Amplification curve**



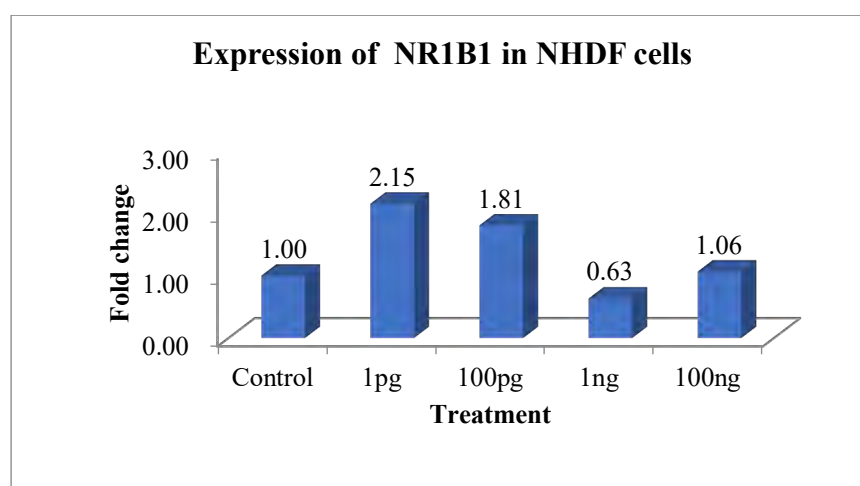
**Figure 36.2: NR1B1 melt curve**



**Figure 36.3: NR1B1 melt peak**

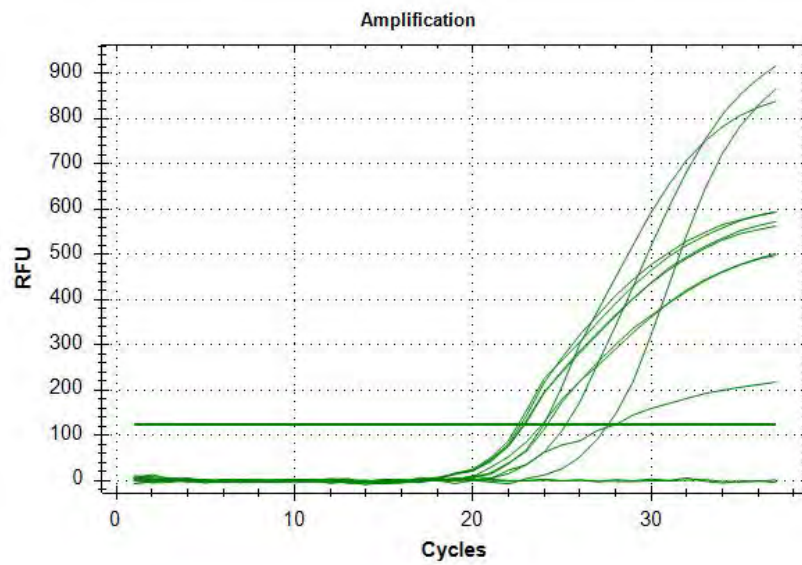
**Table 36: Relative expression of NR1B1 gene in NHDF cells**

Sample	Actin	NR1B1	Delta ct	Delta Delta ct	Fold change $2^{\Delta\Delta Ct}$
Control	20.46	26.60	6.14	0.00	1.00
1pg	21.47	26.50	5.03	-1.11	2.15
100pg	20.87	26.16	5.29	-0.85	1.81
1ng	20.84	27.64	6.80	0.66	0.63
100ng	21.13	27.18	6.05	-0.09	1.06

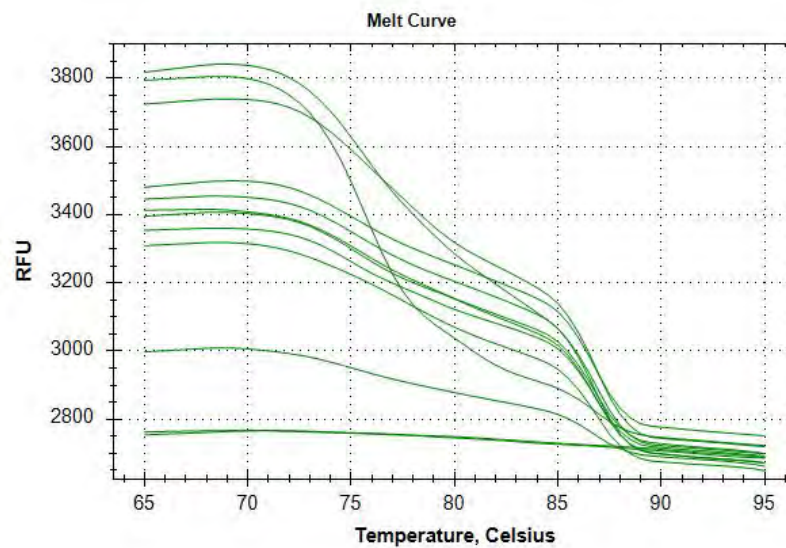


**Graph 36: Relative expression of NR1B1 in NHDF cells**

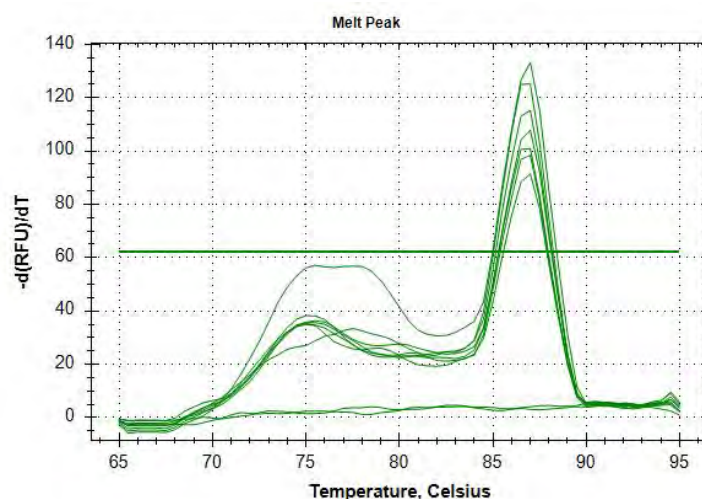
Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq	Mean Cq
SYBR	NR5A1	Unkn	Control	cDNA	25.23	28.07	26.65
SYBR	NR5A1	Unkn	1pg	cDNA	22.93	22.85	22.89
SYBR	NR5A1	Unkn	100pg	cDNA	24.00	22.55	23.28
SYBR	NR5A1	Unkn	1ng	cDNA	22.71	23.90	23.30
SYBR	NR5A1	Unkn	100ng	cDNA	27.60	24.19	25.89
SYBR	NR5A1	NTC	ntc	NTC	N/A	N/A	N/A



**Figure 37.1: NR5A1 Amplification curve**



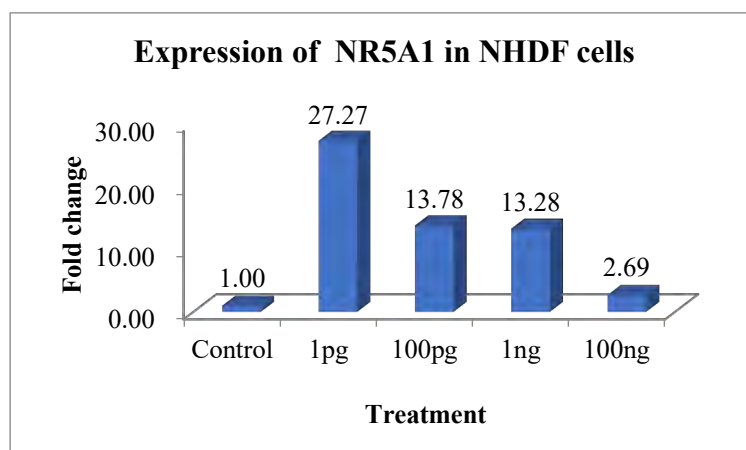
**Figure 37.2: NR5A1 melt curve**



**Figure 37.3: NR5A1 melt peak**

**Table 37: Relative expression of NR5A1 gene in NHDF cells**

Sample	Actin	NR5A1	Delta ct	Delta Delta ct	Fold change $2^{\Delta\Delta Ct}$
Control	20.46	26.65	6.19	0.00	1.00
1pg	21.47	22.89	1.42	-4.77	27.27
100pg	20.87	23.28	2.41	-3.78	13.78
1ng	20.84	23.30	2.46	-3.73	13.28
100ng	21.13	25.89	4.76	-1.43	2.69



**Graph 37: Relative expression of NR5A1 in NHDF cells**

Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq	Mean Cq
SYBR	NR1H2	Unkn	Control	cDNA	19.85	22.17	21.01
SYBR	NR1H2	Unkn	1pg	cDNA	19.54	19.89	19.71

SYBR	NR1H2	Unkn	100pg	cDNA	20.80	21.95	21.37
SYBR	NR1H2	Unkn	1ng	cDNA	30.38	22.78	26.58
SYBR	NR1H2	Unkn	100ng	cDNA	20.89	20.93	20.91
SYBR	NR1H2	NTC	ntc	NTC	N/A	N/A	N/A

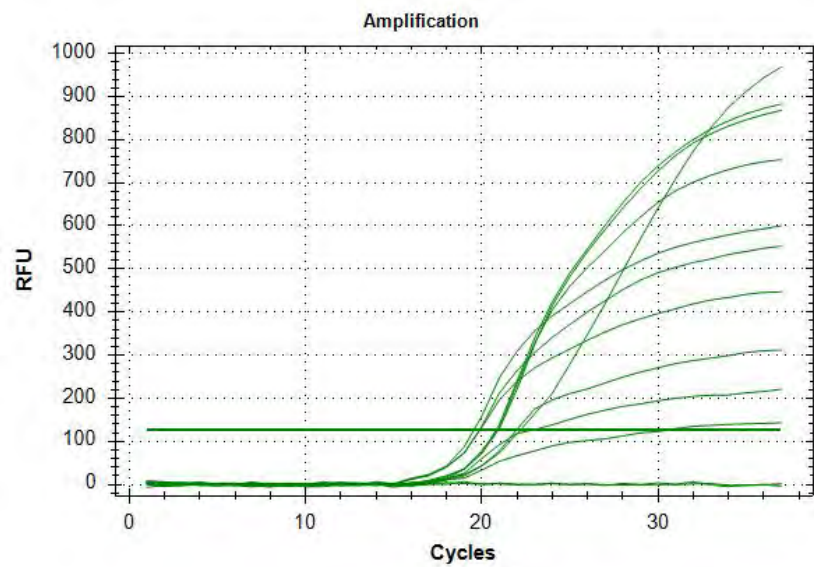


Figure 38.1: NR1H2 Amplification curve

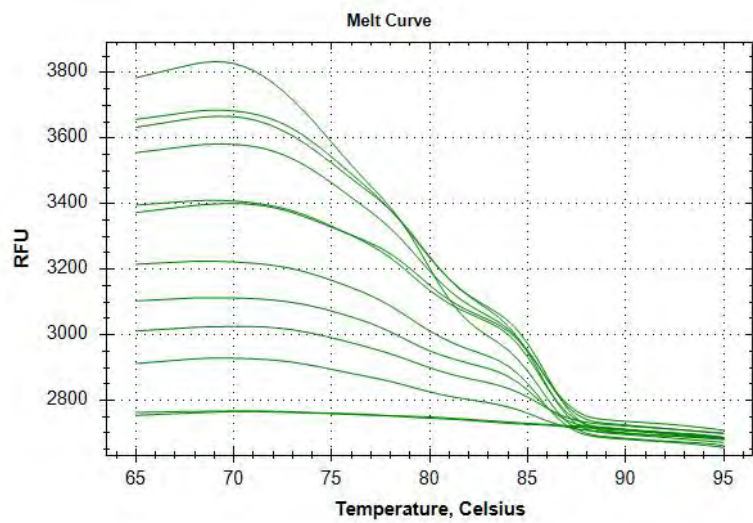
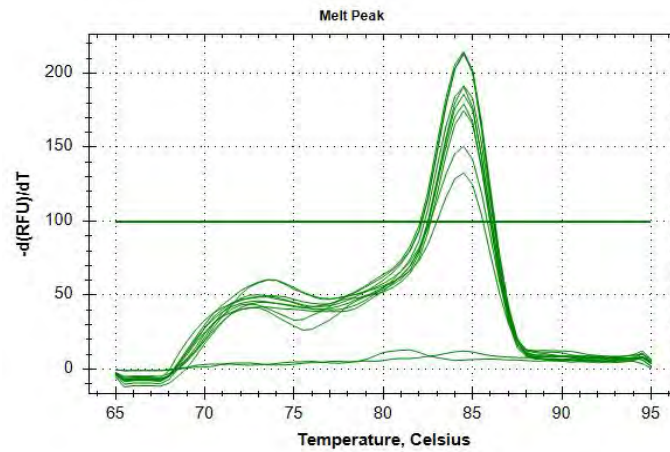


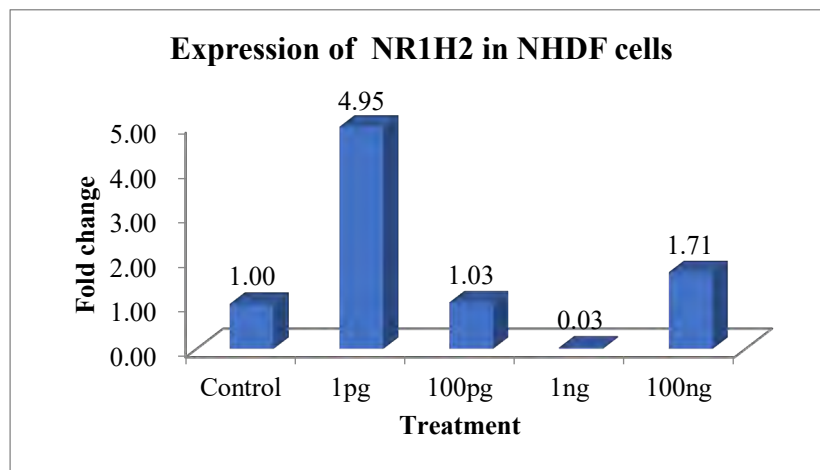
Figure 38.2: NR1H2 melt curve



**Figure 38.3: NR1H2 melt peak**

**Table 38: Relative expression of NR1H2 gene in NHDF cells**

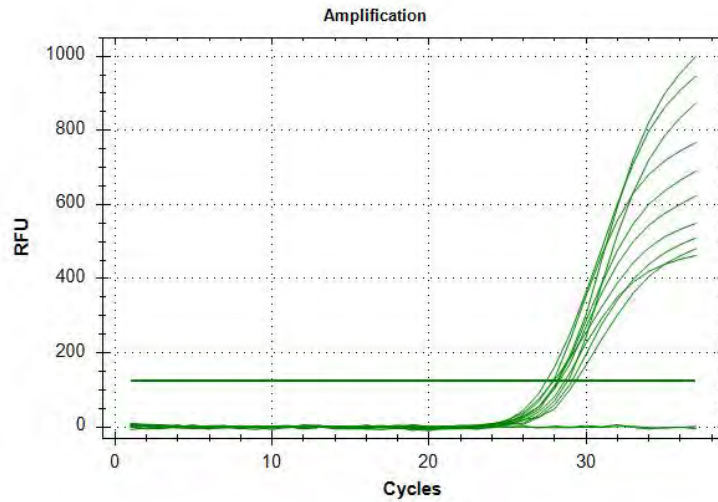
Sample	Actin	NR1H2	Delta ct	Delta Delta ct	Fold change $2^{\Delta\Delta Ct}$
<b>Control</b>	20.46	21.01	0.55	0.00	1.00
1pg	21.47	19.71	-1.76	-2.31	4.95
100pg	20.87	21.37	0.50	-0.05	1.03
1ng	20.84	26.58	5.74	5.19	0.03
100ng	21.13	20.91	-0.22	-0.77	1.71



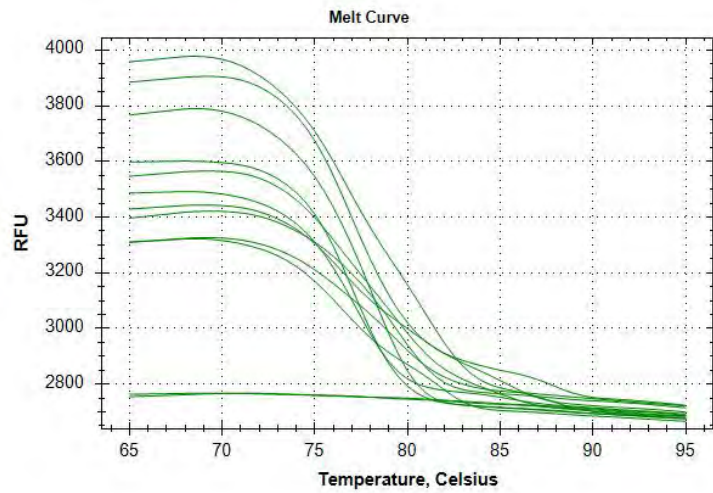
**Graph 38: Relative expression of NR1H2 in NHDF cells**



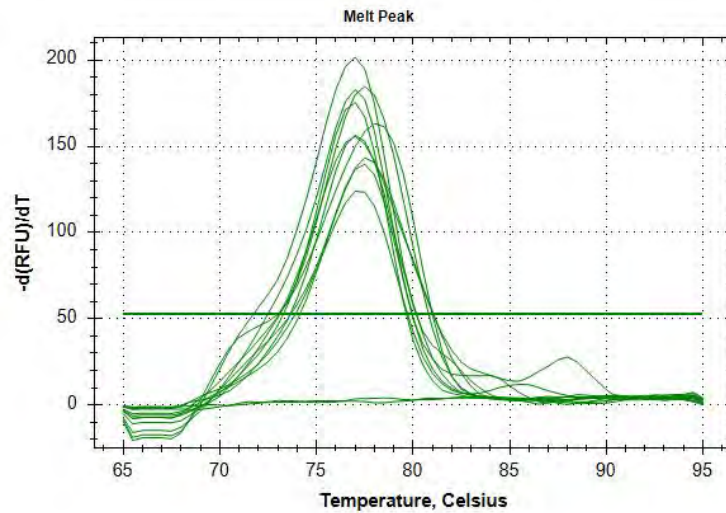
Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq	Mean Cq
SYBR	NR3A1	Unkn	Control	cDNA	28.65	28.16	28.41
SYBR	NR3A1	Unkn	1pg	cDNA	27.97	28.31	28.14
SYBR	NR3A1	Unkn	100pg	cDNA	27.48	28.84	28.16
SYBR	NR3A1	Unkn	1ng	cDNA	29.12	29.35	29.24
SYBR	NR3A1	Unkn	100ng	cDNA	27.89	28.23	28.06
SYBR	NR3A1	NTC	ntc	NTC	N/A	N/A	N/A



**Figure 39.1: NR3A1 Amplification curve**



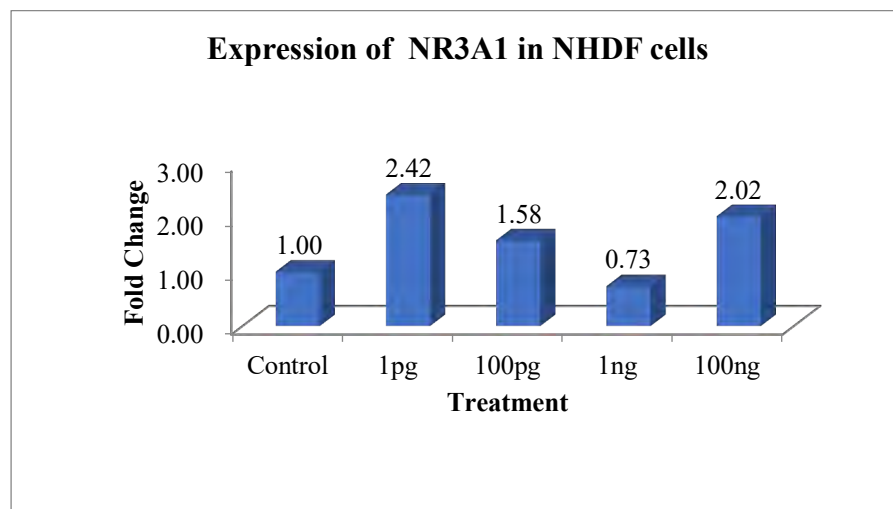
**Figure 39.2: NR3A1 melt curve**



**Figure 39.3: NR3A1 melt peak**

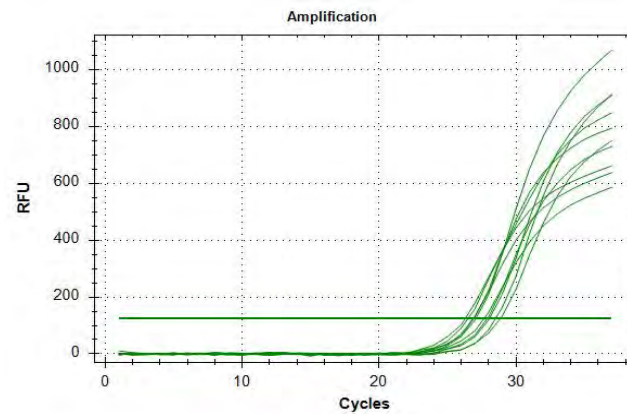
**Table 39: Relative expression of NR3A1 gene in NHDF cells**

Sample	Actin	NR3A1	Delta ct	Delta Delta ct	Fold change $2^{\Delta\Delta Ct}$
<b>Control</b>	20.46	28.41	7.95	0.00	1.00
1pg	21.47	28.14	6.67	-1.27	2.42
100pg	20.87	28.16	7.29	-0.66	1.58
1ng	20.84	29.24	8.40	0.45	0.73
100ng	21.13	28.06	6.93	-1.02	2.02

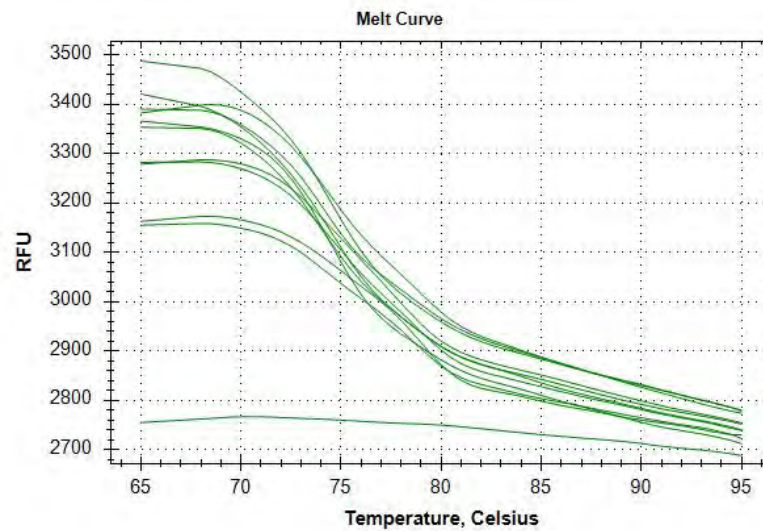


**Graph 39: Relative expression of NR3A1 in NHDF cells**

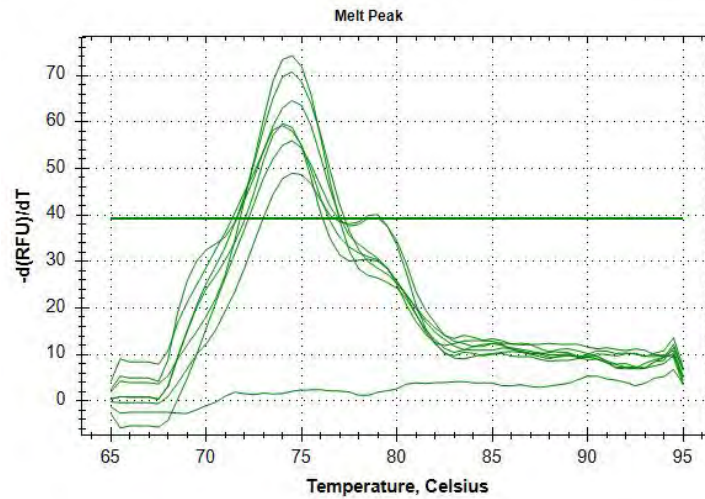
Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq	Mean Cq
SYBR	NR1C3	NTC	Control	cDNA	28.66	28.04	28.35
SYBR	NR1C3	Unkn	1pg	cDNA	27.24	27.64	27.44
SYBR	NR1C3	Unkn	100pg	cDNA	26.27	26.02	26.15
SYBR	NR1C3	Unkn	1ng	cDNA	25.93	25.78	25.86
SYBR	NR1C3	Unkn	100ng	cDNA	27.21	27.59	27.40
SYBR	NR1C3	NTC	ntc	NTC	N/A	N/A	N/A



**Figure 40.1: NR1C3 Amplification curve**



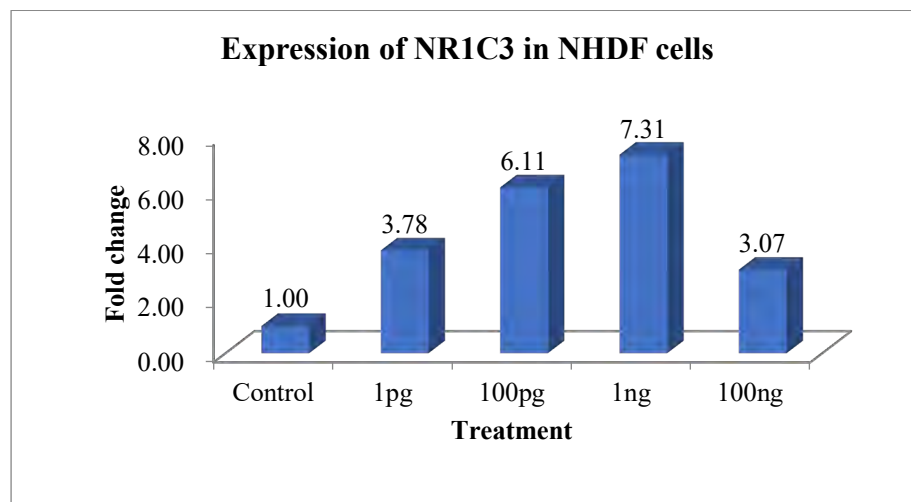
**Figure 40.2: NR1C3 melt curve**



**Figure 40.3: NR1C3 melt peak**

**Table 40: Relative expression of NR1C3 gene in NHDF cells**

Sample	Actin	NR1C3	Delta ct	Delta Delta ct	Fold change $2^{\Delta\Delta Ct}$
Control	20.46	28.35	7.89	0.00	1.00
1pg	21.47	27.44	5.97	-1.92	3.78
100pg	20.87	26.15	5.28	-2.61	6.11
1ng	20.84	25.86	5.02	-2.87	7.31
100ng	21.13	27.4	6.27	-1.62	3.07



**Graph 40: Relative expression of NR1C3 in NHDF cells**

Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq	Mean Cq
SYBR	NR3C1	Unkn	Control	cDNA	21.29	20.76	21.02
SYBR	NR3C1	Unkn	1pg	cDNA	21.26	21.26	21.26
SYBR	NR3C1	Unkn	100pg	cDNA	24.89	23.59	24.24
SYBR	NR3C1	Unkn	1ng	cDNA	22.09	21.47	21.78
SYBR	NR3C1	Unkn	100ng	cDNA	22.54	23.07	22.81
SYBR	NR3C1	NTC	NTC	NTC	N/A	N/A	N/A

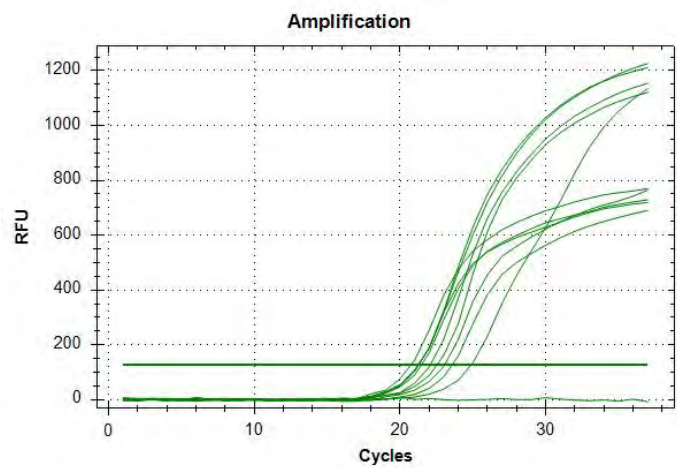


Figure 41.1: NR3C1 Amplification curve

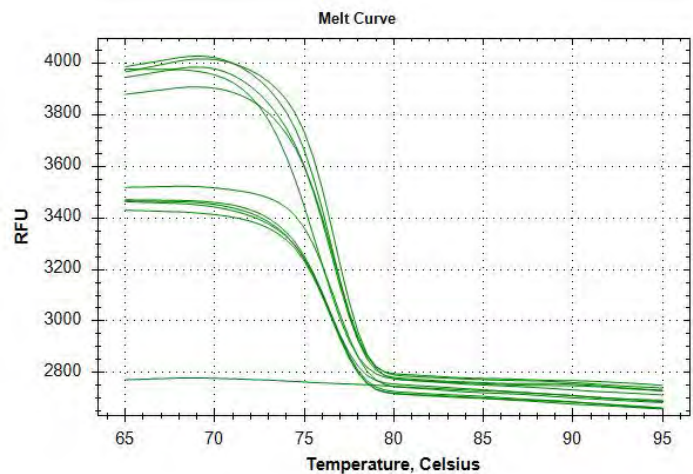
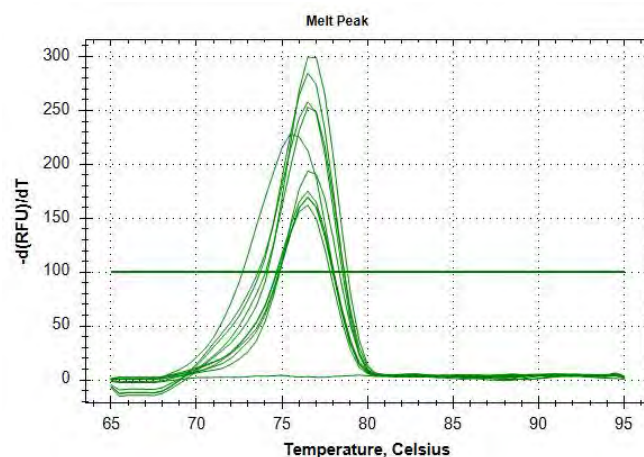


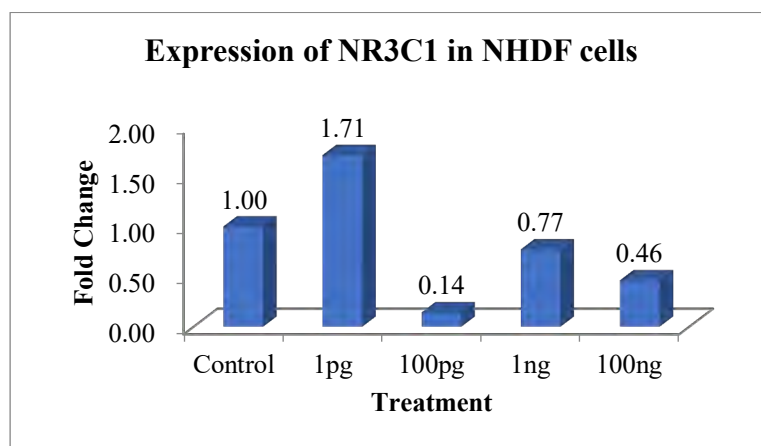
Figure 41.2: NR3C1 melt curve



**Figure 41.3: NR3C1 melt peak**

**Table 41: Relative expression of NR3C1 gene in NHDF cells**

Sample	Actin	NR3C1	Delta ct	Delta Delta ct	Fold change $2^{\Delta\Delta Ct}$
Control	20.46	21.02	0.56	0.00	1.00
1pg	21.47	21.26	-0.21	-0.77	1.71
100pg	20.87	24.24	3.37	2.80	0.14
1ng	20.84	21.78	0.94	0.38	0.77
100ng	21.13	22.81	1.68	1.11	0.46



**Graph 41: Relative expression of NR3C1 in NHDF cells**

Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq	Mean Cq
SYBR	NR3C2	Unkn	Control	cDNA	22.13	21.73	21.93



SYBR	NR3C2	Unkn	1pg	cDNA	20.98	21.13	21.05
SYBR	NR3C2	Unkn	100pg	cDNA	24.09	24.43	24.26
SYBR	NR3C2	Unkn	1ng	cDNA	22.31	22.20	22.26
SYBR	NR3C2	Unkn	100ng	cDNA	23.81	23.88	23.85
SYBR	NR3C2	NTC	NTC	NTC	N/A	N/A	N/A

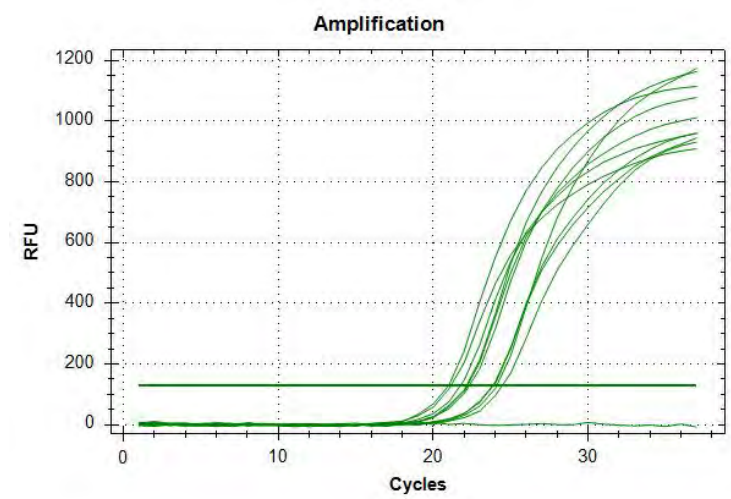


Figure 42.1: NR3C2 Amplification curve

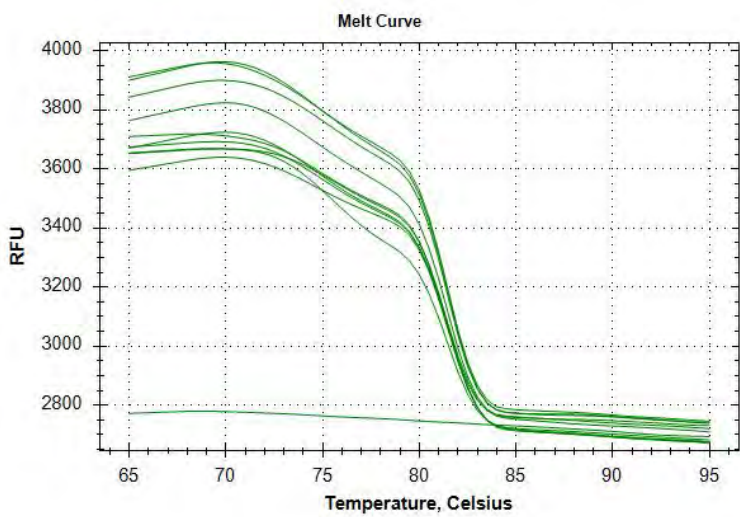
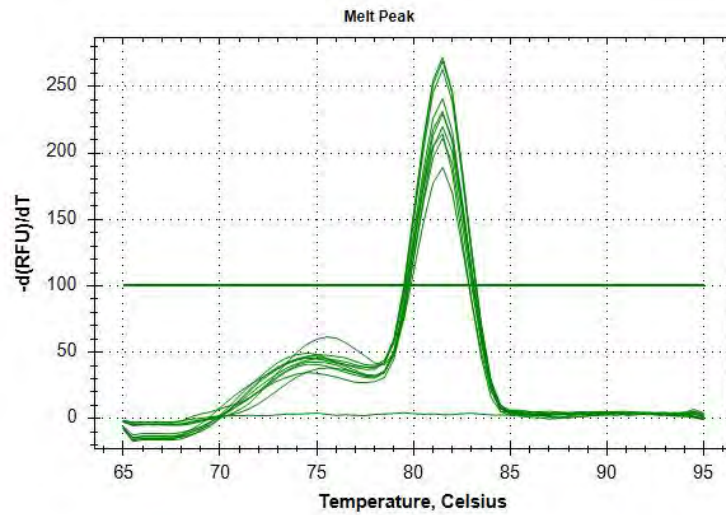


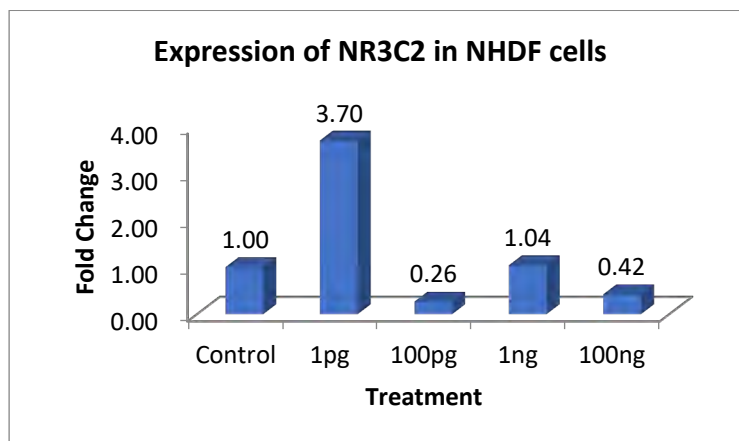
Figure 42.2: NR3C2 melt curve



**Figure 42.3: NR3C2 melt peak**

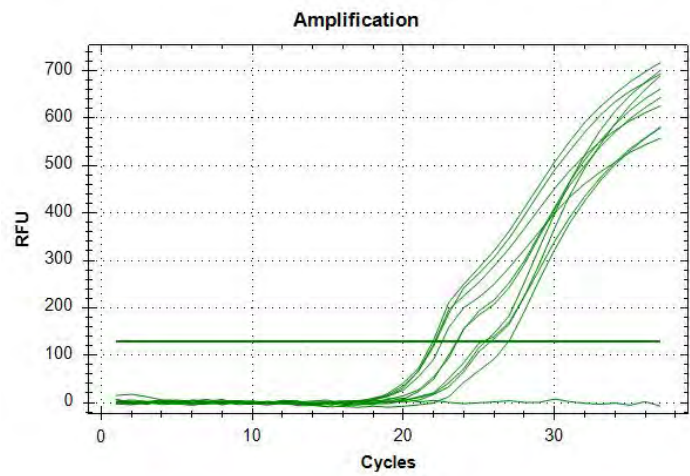
**Table 42: Relative expression of NR3C2 gene in NHDF cells**

Sample	Actin	NR3C2	Delta ct	Delta Delta ct	Fold change $2^{\Delta\Delta ct}$
Control	20.46	21.93	1.47	0.00	1.00
1pg	21.47	21.05	-0.42	-1.89	3.70
100pg	20.87	24.26	3.39	1.92	0.26
1ng	20.84	22.26	1.42	-0.06	1.04
100ng	21.13	23.85	2.72	1.25	0.42

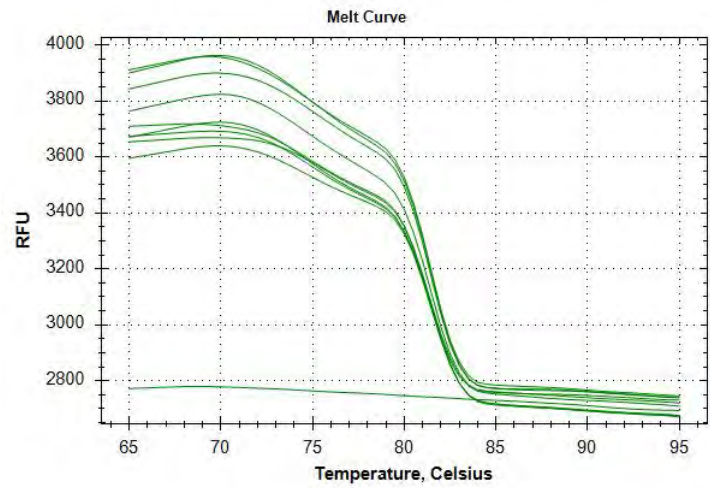


**Graph 42: Relative expression of NR3C2 in NHDF cells**

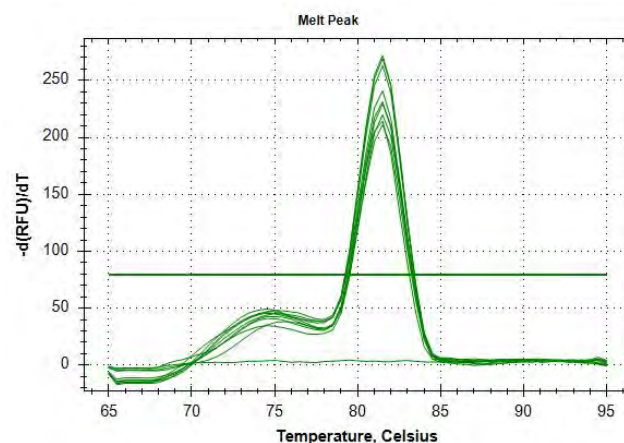
Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq	Mean Cq
SYBR	NR3C4	Unkn	Control	cDNA	22.14	22.55	22.34
SYBR	NR3C4	Unkn	1pg	cDNA	21.94	22.07	22.01
SYBR	NR3C4	Unkn	100pg	cDNA	25.76	25.24	25.50
SYBR	NR3C4	Unkn	1ng	cDNA	23.51	23.55	23.53
SYBR	NR3C4	Unkn	100ng	cDNA	25.41	26.96	26.18
SYBR	NR3C4	NTC	NTC	NTC	N/A	N/A	N/A



**Figure 43.1: NR3C4 Amplification curve**



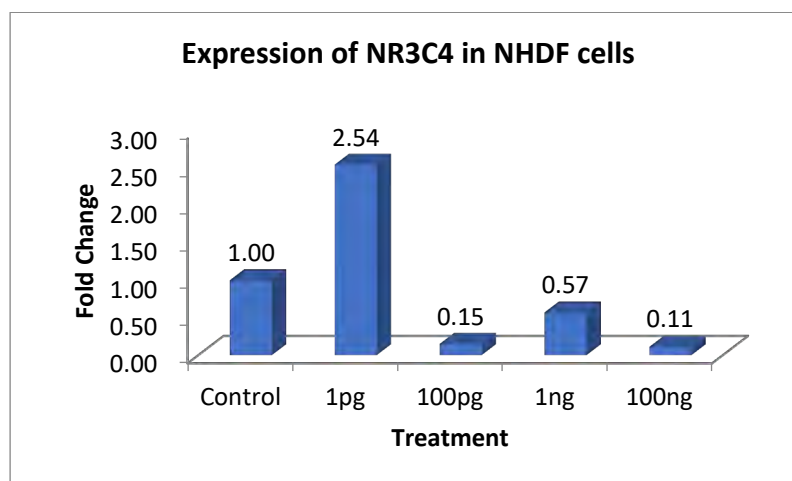
**Figure 43.2: NR3C4 melt curve**



**Figure 43.3: NR3C4 melt peak**

**Table 43: Relative expression of NR3C4 gene in NHDF cells**

Sample	Actin	NR3C4	Delta ct	Delta Delta ct	Fold change $2^{\Delta\Delta Ct}$
Control	20.46	22.34	1.88	0.00	1.00
1pg	21.47	22.01	0.54	-1.35	2.54
100pg	20.87	25.50	4.63	2.74	0.15
1ng	20.84	23.53	2.69	0.81	0.57
100ng	21.13	26.18	5.05	3.17	0.11



**Graph 43: Relative expression of NR3C4 in NHDF cells**

Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq	Mean Cq
SYBR	NR2E1	Unkn	Control	cDNA	19.22	19.54	19.38
SYBR	NR2E1	Unkn	1pg	cDNA	18.48	18.79	18.64
SYBR	NR2E1	Unkn	100pg	cDNA	19.22	19.21	19.21
SYBR	NR2E1	Unkn	1ng	cDNA	18.91	19.10	19.00
SYBR	NR2E1	Unkn	100ng	cDNA	20.39	20.10	20.24
SYBR	NR2E1	NTC	ntc	NTC	N/A	N/A	N/A

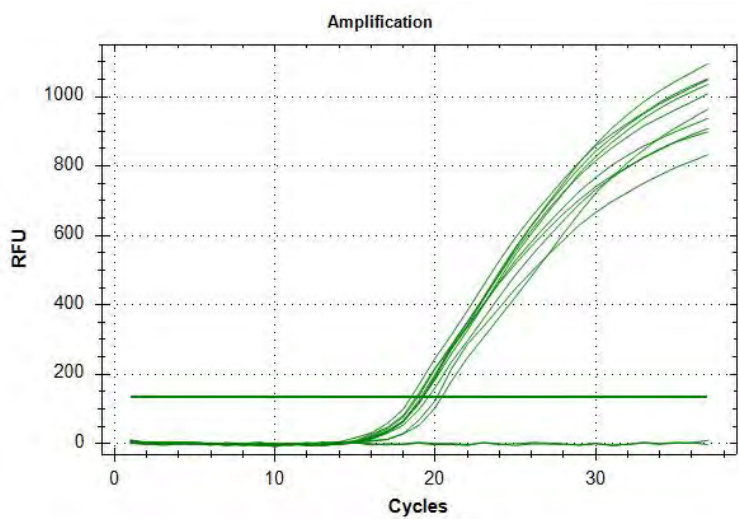


Figure 44.1: NR2E1 Amplification curve

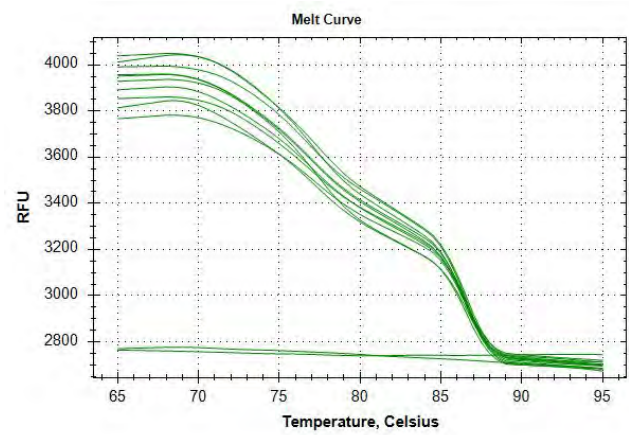
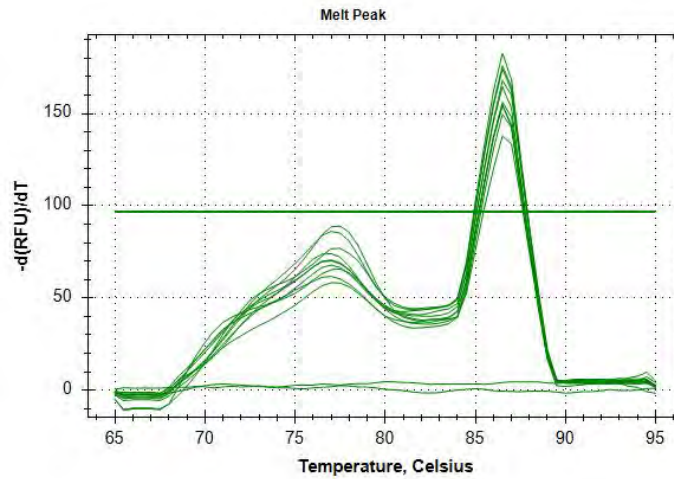


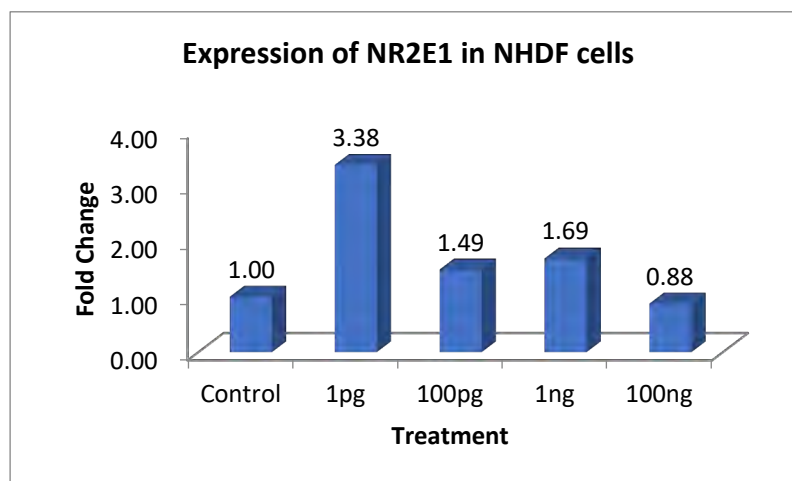
Figure 44.2: NR2E1 melt curve



**Figure 44.3: NR2E1 melt peak**

**Table 44: Relative expression of NR2E1 gene in NHDF cells**

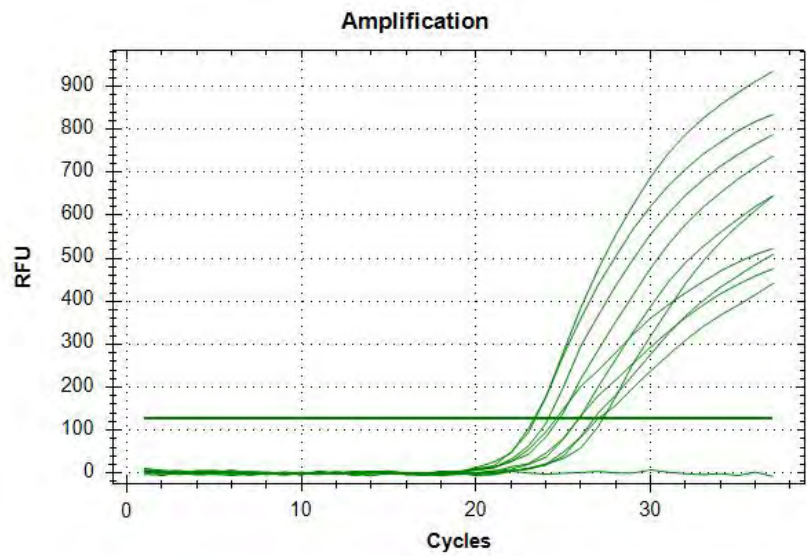
Sample	Actin	NR2E1	Delta ct	Delta Delta ct	Fold change $2^{\Delta\Delta Ct}$
Control	20.46	19.38	-1.08	0.00	1.00
1pg	21.47	18.64	-2.83	-1.76	3.38
100pg	20.87	19.21	-1.66	-0.58	1.49
1ng	20.84	19.00	-1.84	-0.76	1.69
100ng	21.13	20.24	-0.89	0.19	0.88



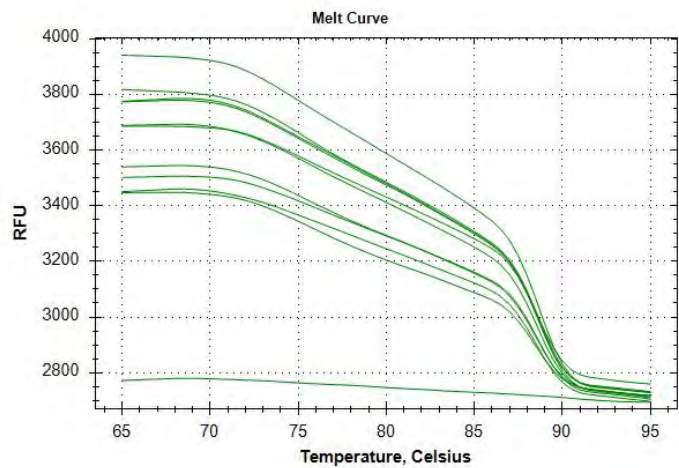
**Graph 44: Relative expression of NR2E1 in NHDF cells**



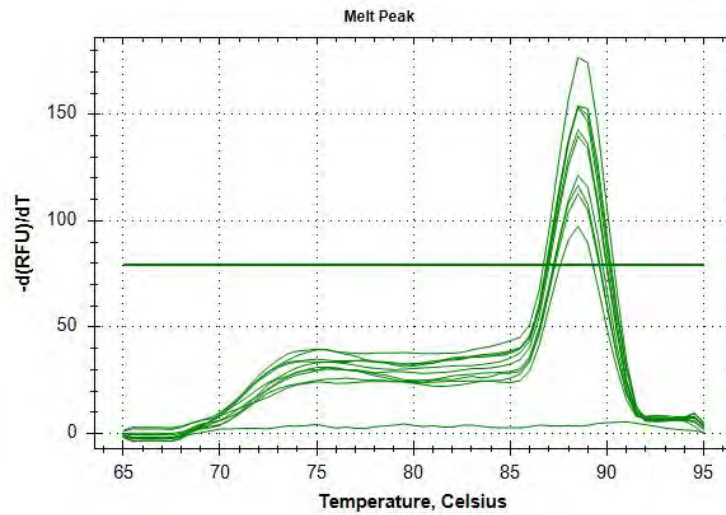
Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq	Mean Cq
SYBR	NR0B1	Unkn	Control	cDNA	23.41	24.15	23.78
SYBR	NR0B1	Unkn	1pg	cDNA	23.33	24.61	23.97
SYBR	NR0B1	Unkn	100pg	cDNA	27.28	26.78	27.03
SYBR	NR0B1	Unkn	1ng	cDNA	24.78	25.90	25.34
SYBR	NR0B1	Unkn	100ng	cDNA	25.93	27.04	26.49
SYBR	NR0B1	NTC	NTC	NTC	N/A	N/A	N/A



**Figure 45.1: NR0B1 Amplification curve**



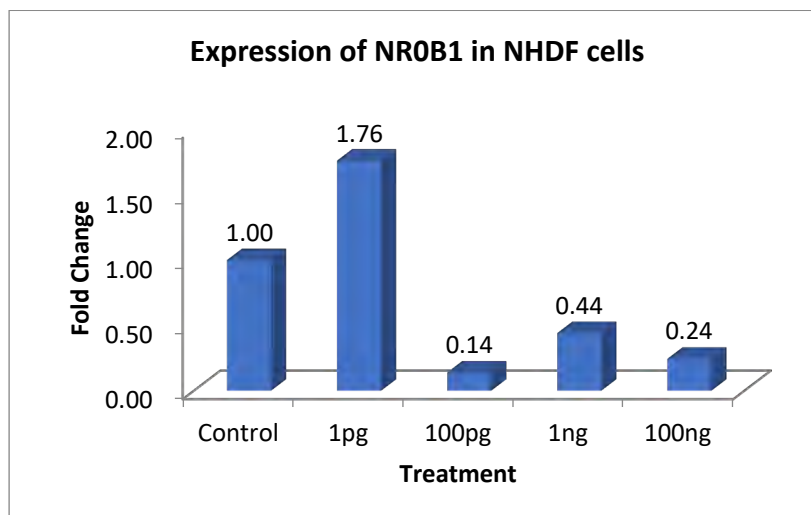
**Figure 45.2: NR0B1 melt curve**



**Figure 45.3: NR0B1 melt peak**

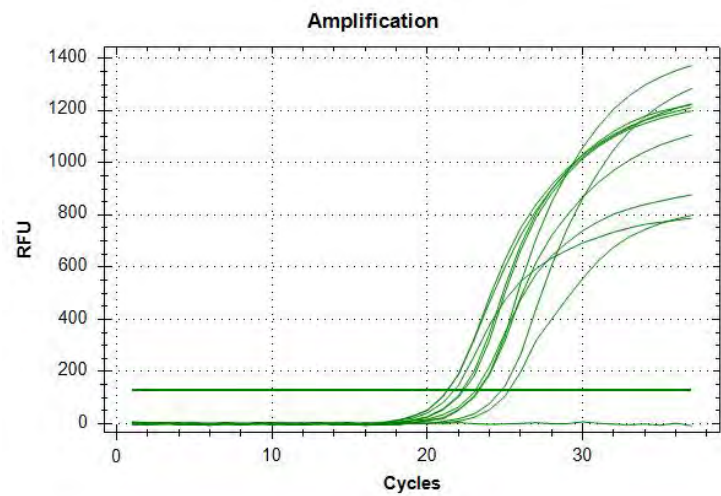
**Table 45: Relative expression of NR0B1 gene in NHDF cells**

Sample	Actin	NR0B1	Delta ct	Delta Delta ct	Fold change $2^{\Delta\Delta Ct}$
Control	20.46	23.78	3.32	0.00	1.00
1pg	21.47	23.97	2.50	-0.82	1.76
100pg	20.87	27.03	6.16	2.84	0.14
1ng	20.84	25.34	4.50	1.18	0.44
100ng	21.13	26.49	5.36	2.03	0.24

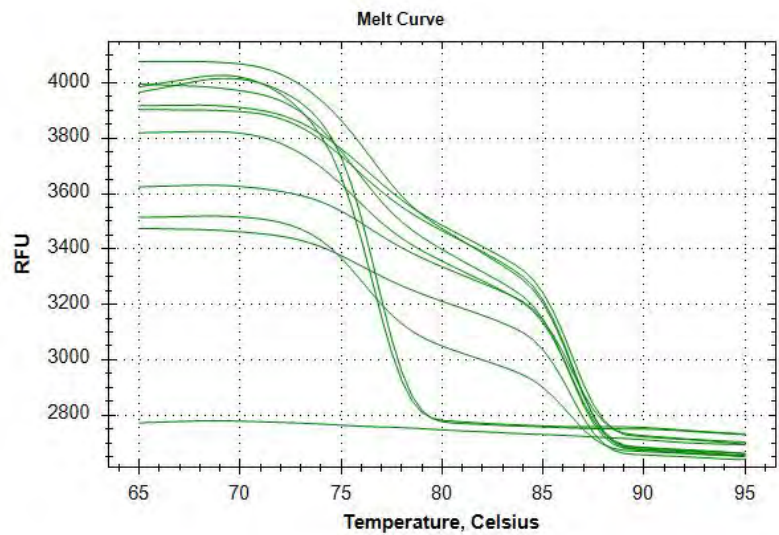


**Graph 45: Relative expression of NR0B1 in NHDF cells**

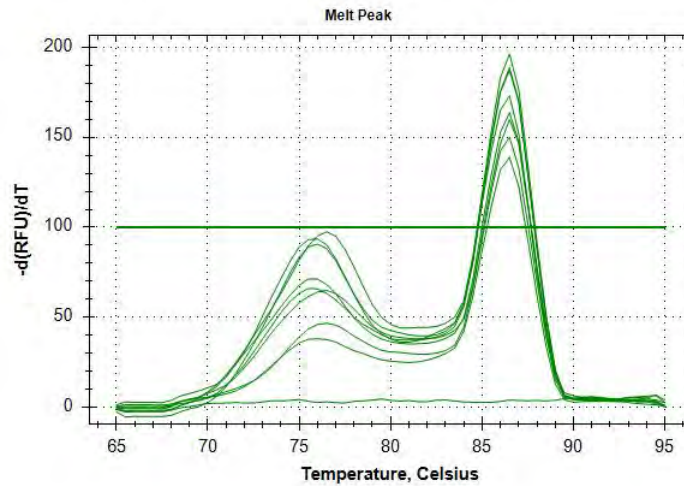
Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq	Mean Cq
SYBR	CD33	Unkn	Control	cDNA	22.32	23.09	22.71
SYBR	CD33	Unkn	1pg	cDNA	22.22	21.72	21.97
SYBR	CD33	Unkn	100pg	cDNA	24.75	25.24	25.00
SYBR	CD33	Unkn	1ng	cDNA	23.25	23.32	23.28
SYBR	CD33	Unkn	100ng	cDNA	24.34	25.87	25.11
SYBR	CD33	NTC	NTC	NTC	N/A	N/A	N/A



**Figure 46.1: CD33 Amplification curve**



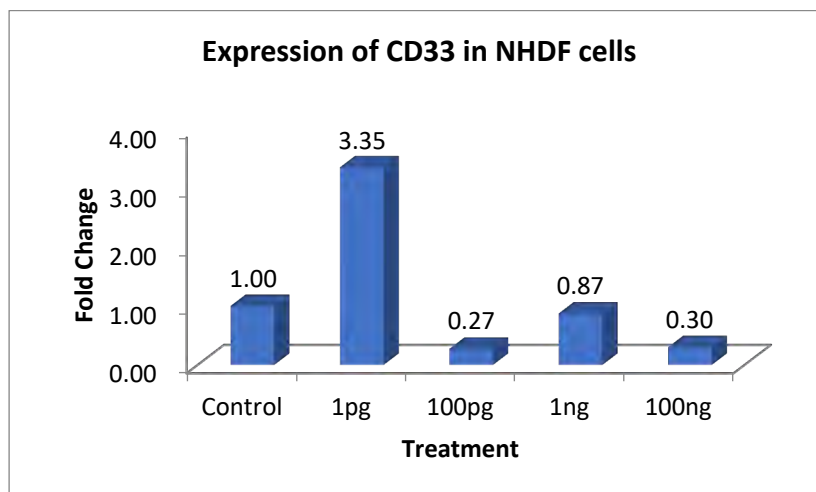
**Figure 46.2: CD33 melt curve**



**Figure 46.3: CD33 melt peak**

**Table 46: Relative expression of CD33 gene in NHDF cells**

Sample	Actin	CD33	Delta ct	Delta Delta ct	Fold change $2^{\Delta\Delta ct}$
Control	20.46	22.71	2.25	0.00	1.00
1pg	21.47	21.97	0.50	-1.75	3.35
100pg	20.87	25.00	4.13	1.88	0.27
1ng	20.84	23.28	2.44	0.20	0.87
100ng	21.13	25.11	3.98	1.73	0.30



**Graph 46: Relative expression of CD33 in NHDF cells**

Fluor	Target	Content	Sample	Biological Set Name	Cq	Cq	Mean Cq
SYBR	CD34	Unkn	Control	cDNA			
SYBR	CD34	Unkn	1pg	cDNA			
SYBR	CD34	Unkn	100pg	cDNA	36.95		36.95
SYBR	CD34	Unkn	1ng	cDNA			
SYBR	CD34	Unkn	100ng	cDNA	32.02		32.02
SYBR	CD34	NTC	NTC	NTC	N/A	N/A	N/A

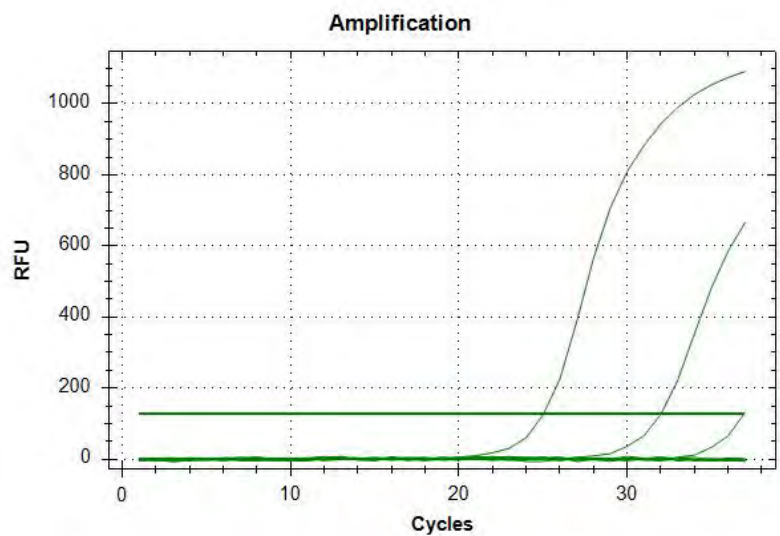


Figure 47.1: CD34 Amplification curve

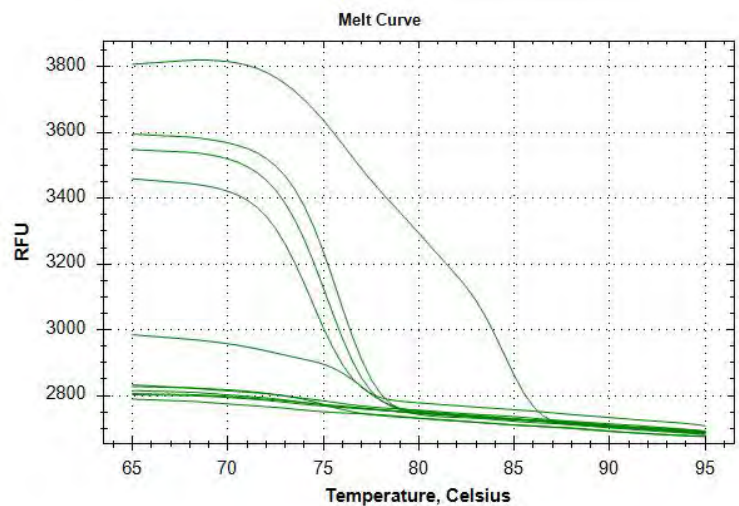
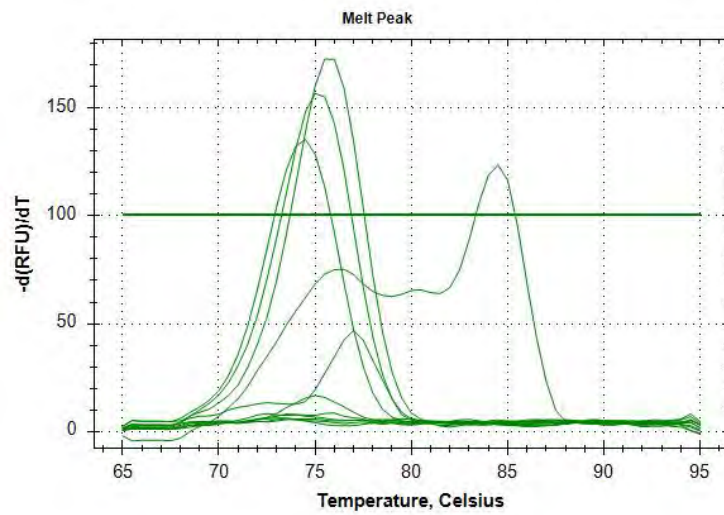
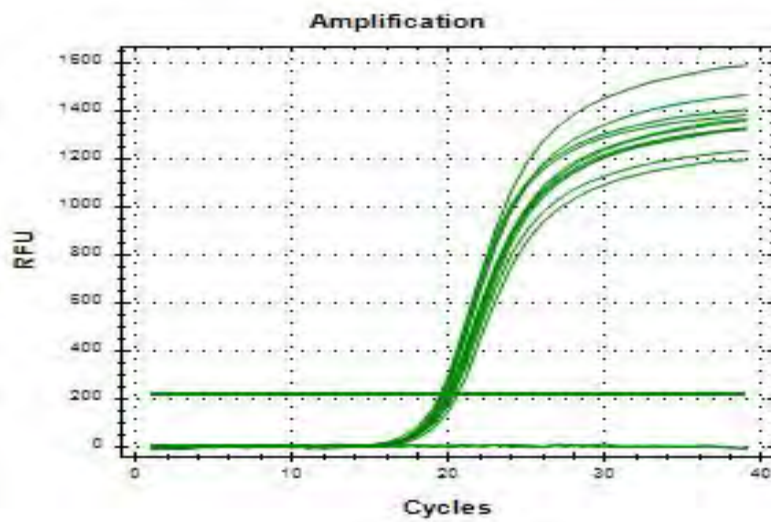


Figure 47.2: CD34 melt curve

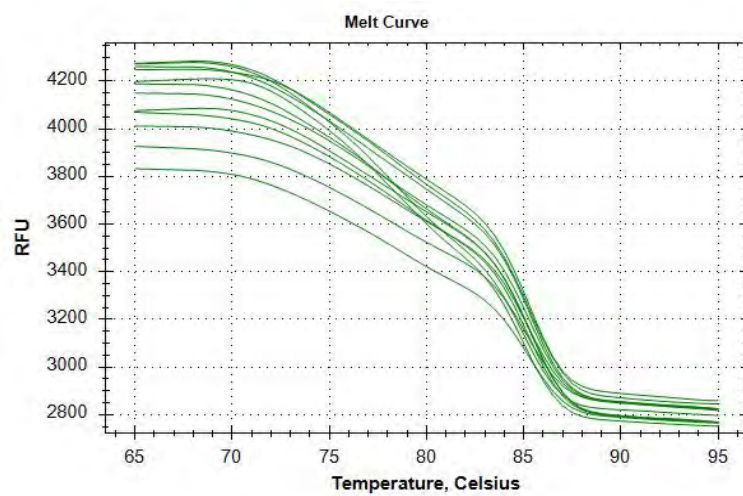




**Figure 47.3: CD34 melt peak**

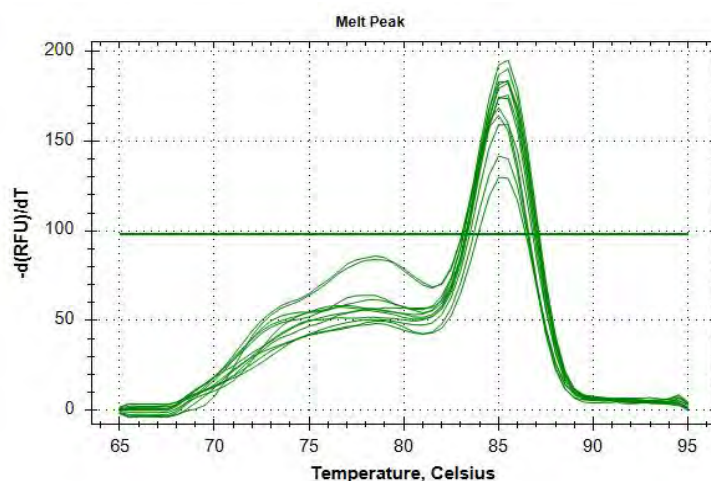


**48.1. Beta Actin Amplification curve**



**48.2. Beta Actin Melt curve**





### 48.3. Beta Actin Melt peak

#### Comments

The qPCR analysis of human dermal fibroblast cells treated with Metadichol at various concentrations for 24hrs was carried out to determine the effects of treatment on transcriptional regulation of nuclear receptor genes. The results show that the majority of genes across the nuclear receptor family are markedly regulated at either 1ng or 1pg concentration. At 1ng/ml treatment, NR1A2, NR1B3, NR1C2, NR1F1, NR1H3, NR2E3, NR2F2, NR3C3, NR4A2, NR5A2, NR2C1, NR2F1 genes were observed to be upregulated compared to the other treatment groups of respective nuclear receptor families, However, the genes NR1B1, NR1B2, NR1C1, NR1C3, NR1D1, NR1D2, NR1F2, NR1F3, NR1H2R, NR1H4R, NR1I1, NR2A1, NR2A2, NR2B1, NR2B3, NR2F6, NR3A1, NR3A2, NR5A1 and NR6A1. has shown the marked upregulation at 1pg/ml treatment compared to other respective treatment groups. NR2B2, NR2C2, NR4A1, NR3B1, NR3B2 has shown the upregulation at 100ng/ml treatment, NR3B3 expression is observed to be increased at 100pg/ml whereas, NR3B2 and NR1L3 is found to be down regulated compared to control

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