Supplementary material

Table S1. Relative mRNA expression of genes.

Gene	Gene ID	Relative mRNA expression ration versus control			P value
		NHDF /NHEK treated with OdLe 0.5µg/ml	**NHDF/NHEK treated with UVA irradiation**	**NHDF/NHEK treated with UVA irradiation and OdLe 0.5µg/ml**	
INHBA	3624	1,104830868	1,062833434	1,457237	0.05
OCLN	100506658	1,604012814	0,611515564	1,604530	<0.05
KLK7	5650	0,914961012	1,121626665	1,506556	0.05
UGCG	7357	1,117272316	1,051485902	2,009714	0.05
GBA1	2629	1,059501314	1,082324154	2,048326	0.05
CDSN	1041	1,126131501	1,151772818	1,554953	0.05
CD44	960	1,185017824	1,013537015	1,397923	0.05
COL3A1	1281	2,209398891	1,092896166	3,256626	0.05
FOXO3	2309	2,086426039	0,896079594	1,367389	0.05
MMP14	4323	1,882440673	0,855582899	5,885722	<0.05
SIRT1	23411	1,581721763	1,325760925	3,766153	<0.05
SIRT2	22933	1,567952038	0,945430748	3,375954	<0.05

Table S2. Gene name, Accesion No, Kegg pathway, Primer.

Gene Symbol	**Gene Name**	**Accession No**	**Kegg pathway**	**Primmer F (5'-3')**	**Primmer R (5'-3')**
INHBA	inhibin subunit beta A	NM_002192.4	map04350	GCAGAAGTCTGGCTCTTCCTAA	CCCCTCCTCTTCTTTCTTCTTC
OCLN	Occludin	NM_001205254.2	map04670	TTTGCTGTGAAAACTCGAAGAA	CGCCAGTTGTGTAGTCTGTCTC
KLK7	kallikrein related peptidase 7	NM_001207053.2		ATCCATGGTGAAGAAAGTCAGG	TTGAGTGTAGACTCCTGGGTCA
UGCG	UDP-glucose ceramide glycosyltransferase	NM_003358.3	map00600	TCCCAAATATGAAGTGCTCCTT	TTCCTGTCACACATTTGAAACC
GBA1	b-glycocerebrosidase	NM_000157.4	map00600	GCTCAAGATACCCCTGATTCAC	CGGACATTGTGGTGAGTACTGT
CDSN	Corneodesmosin	NM_001264.5		CTCTTCCTCTTCCCAGACCTTT	TGAAGTAGCCCACAGGGTAGAT

SIRT1	sirtuin 1	NM_001142498.1	hsa04068	GGAGCAGATTAGTAGGCGGCTT	GCGCCATGGAAAATGTAACG
SIRT2	sirtuin 2	NM_001193286.1	hsa04068	TGACGCCCAAGTGTGAAGACT	ATACAGGAGAAGAAACGCGCTG
FOXO3	forkhead box O3	NM_001455.3		CAGGCACCATGAATCTGAATGA	GGAGCGTGATGTTATCCAGCA
CD44	CD44 molecule	NM_000610.3	hsa04512	TCATCTTGGCATCCCTCTTG	CCATTGCCACTGTTGATCACTA
COL3A1	collagen, type III, alpha 1	NM_000090.4	hsa04512	GGAGTTTAGAAGTGCGCCATTC	CCAAAAGCTGTAAGCGTTTGC
MMP14	matrix metallopeptidase 14	**NM_004995.4**	hsa04668	ACGACGTCTTCCAGTACCGAGA	TAGGTCACGTAGCCCACTTGGT
ACTB	actin, beta	NM_003254.2	hsa04066	TTTATCCATCCCCTGCAAACTG	TTTTCAGAGCCTTGGAGGAGC
GAPDH	glyceraldehyde-3-phosphate dehydrogenase	NM_001101.3	hsa04810	CTGTCCACCTTCCAGCAGATGT	AGCATTTGCGGTGGACGAT