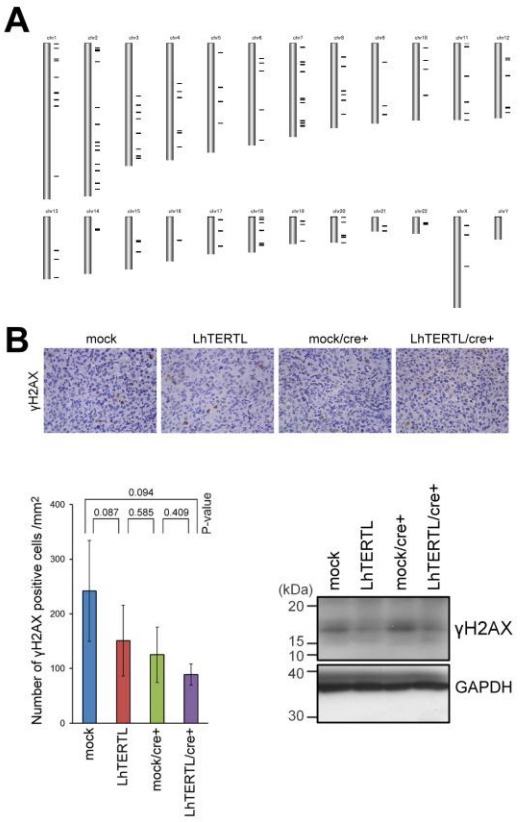

C

Expressions of human prostate SASP in telomere-elongated and control PC-3 xenograft tumors

Gene name in ref. 31	Symbol name	Affymetrix probe ID	Fold Change (long/short)	up/down	Signal Value control	Signal Value long telomere
IL-6	IL6	205207_at	1.76	down	161.60	90.99
uPAR	PLAUR	211924_s_at	1.40	up	478.19	659.13
MIF	MIF	217871_s_at	1.38	up	4825.19	6678.24
MIP-3a	CCL20	205476_at	1.82	down	154.05	81.51
MCP-1	CCL2	216598_s_at	1.03	up	10.51	10.86
GM-CSF	CSF2RB	205159_at	1.01	down	14.24	14.12
IL-1a	IL1A	208200_at	1.17	down	49.94	42.63
ICAM-1	ICAM1	202638_s_at	1.73	down	209.61	115.05
TIMP-2	TIMP2	203167_at	1.26	up	245.79	310.75
GRO (-a, -b, -g)	CXCL2	209774_x_at	1.83	down	531.74	233.35
VEGF	VEGFA	210512_s_at	1.38	down	984.35	711.38
Amphiregulin	AREG	205239_at	1.82	up	605.67	1106.59
IL-8	IL8	202859_x_at	1.61	down	2256.38	1214.24
ENA-78	CXCL5	214974_x_at	1.69	down	14.71	8.02
IL-1b	IL1B	205067_at	1.08	up	127.15	138.60
Angiogenin	ANG	205141_at	1.26	up	87.31	111.92
GRO-a	CXCL1	204470_at	1.13	down	257.15	211.06
sTNF RI	TNFRSF1A	207643_s_at	1.21	down	654.68	541.07
MCP-4	CCL13	216714_at	1.12	down	28.69	25.56
GCP-2	CXCL6	206336_at	1.01	down	1282.74	971.31
PDGF-BB	PDGFB	204200_s_at	1.31	down	79.07	63.23
IL-6R	IL6R	205945_at	1.10	down	185.95	168.85
sgp130	IL6ST	211000_s_at	1.28	up	179.45	221.56
IGFBP-2	IGFBP2	202718_at	1.02	down	23.50	22.88
GITR	TNFRSF18	224553_s_at	1.12	down	45.07	41.68
I-TAC	CXCL11	211122_s_at	2.78	down	43.11	15.73
Osteoprotegerin	TNFSF11	211153_s_at	1.03	up	14.43	14.87
EGF-R	EGFR	211551_at	1.15	up	38.64	44.87
bFGF	FGF2	204422_s_at	1.58	down	204.95	125.71
PIGF	PIGF	205077_s_at	1.07	down	848.11	794.79
IGFBP-6	IGFBP6	203851_at	1.02	down	1680.44	1714.89
MIP-1a	CCL3	205114_s_at	1.10	down	26.77	24.37
TIMP-1	TIMP1	201666_at	1.03	up	3156.89	3267.62
IL-2R-a	IL2RA	206341_at	1.02	down	17.10	16.77
HCC-4	CCL16	207354_at	1.03	down	14.68	14.31
sTNF RII	TNFRSF1B	203508_at	1.00	down	39.59	39.32
Thrombopoietin	THPO	211831_s_at	1.12	up	26.67	29.94
MSP-a	MST1	216320_x_at	1.27	down	250.12	196.98
CTACK	CCL27	207955_at	1.00	up	21.20	21.20

FIG S7 The telomere length-dependent regulation of innate immune system related-genes is not mediated by telomere position effect, DNA damage signaling or senescence-associated secretory phenotype (SASP). (**A**) Region map of the 190 probes (151 genes) affected by telomere elongation in tumors. The horizontal black bars depict each gene locus in the chromosomes; no deflections were observed in the vicinity of telomeres. (**B**) Detection of γH2AX in four PC-3 xenograft tumors. No substantial differences were found in terms of Immunohistochemical staining, the rate of γH2AX positive cells per unit area or accumulation of γH2AX between control xenograft tumors and xenograft tumors with elongated telomeres. Original magnification, 200×.

(**C**) A list of microarray expression data of human prostate SASP. Among them, no gene expressions, except for CXCL11, were changed with fold changes of > 2.0 by telomere elongation.