

Longevity Candidate Genes: SNPs of Interest

	Chr	Trait Associated with the Gene	References	SNP	Directly Genotyped?	Call Rate	Imputed using 1000 Genomes?	Imputation Quality	Minor Allele in Full Sample	MAF in Full Sample	MW
6 (IL6 polymorphism)	1	longevity	14,18	rs1800795	No		Yes	0.995	C	0.349	0.4
Factor alpha (polymorphism)	6	longevity	18	rs1800629	Yes	0.998221	Yes	1	A	0.1457	0.
Gene C-III (polymorphism)	11	longevity		rs2542052	Yes	0.9993531	Yes	1	A	0.4164	0

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Gene Name	Chr	Start	End	Trait Studied for Association with the Gene	References	Number of Genotyped SNPs with Call Rate >95%	Number of Additional SNPs Imputed from 1000 Genomes with INFO>0.8	Number of Functional SNPs (Stop, I
regulator of calcineurin 1	21	35885440	35987441	longevity		151	817	
adiponectin, C1Q and collagen domain containing	3	186560463	186576252	longevity	18	31	108	
v-akt murine thymoma viral oncogene homolog 1	14	105235686	105235686	longevity	6	7	53	
apolipoprotein C-I	19	45417504	45422606	longevity	1,7	10	51	
apolipoprotein C-III	11	116700422	116703788	longevity		11	102	
apolipoprotein E	19	45409011	45412650	longevity	1,7, 14	13	49	
catalase	11	34460472	34493609	longevity		83	137	
calcium/calmodulin-dependent protein kinase IV	18	110559351	110830584	longevity	3,7	0	0	
cyclin-dependent kinase inhibitor 2A	9	21967751	21995300	longevity	6,8, 16	18	118	
cyclin-dependent kinase inhibitor 2B	9	22002902	22009362	longevity		10	54	

cholesteryl ester transfer protein	16	56995762	57017757	Longevity	6,14	72	187	
MT-CYB mitochondrially encoded cytochrome b	Mitochondrial?	14747	15887	longevity		0	0	
fatty acid desaturase 1		61567099	61596790	longevity		13	95	
) forkhead box O1	13	41129817	41240734	longevity		59	444	
forkhead box O3	6	108881038	109005977	longevity	6,7	55	482	
mechanistic target of rapamycin	1	11166592	11322564	longevity	15, 17	65	789	
GATA binding protein 2	3	128198270	128212028	longevity		26	93	
GATA binding protein 3	10	8095567	8117161	longevity	11	49	170	
GATA binding protein 4	8	11534468	11617511	longevity		128	595	
GATA binding protein 5	20	61038553	61051026	longevity		33	102	
GATA binding protein 6	18	19749404	19782491	longevity		18	135	
glutathione peroxidase 1	3	49394609	49396033	longevity	12,13	9	27	
glutathione peroxidase 4	19	1103936	1106787	longevity	13	12	84	
interleukin 6	7	22765503	22771621	longevity	14,18	82	366	
Interleukin 6 receptor	1	154377669	154441926	longevity		55	292	

interleukin 13	5	131991955	131996802	longevity	20	15	75	
klotho	13	33590207	33640282	longevity		67	358	
lamin A/C	1	156052364	156109880	longevity	6	43	247	
methionine adenosyltransferase I, alpha	10	82031576	82049440	longevity	17	39	140	
methionine adenosyltransferase II, alpha	2	85766288	85772403	longevity	17	13	74	
multiple inositol-polyphosphate phosphatase 1	10	89264632	89313217	longevity	4,6	36	253	
matrix metalloproteinase 20	11	102447566	102496063	longevity		72	432	
otolin 1	3	161214596	161221730	longevity	10	13	117	
poly (ADP-ribose) polymerase 1	1	226548392	226595780	longevity		44	290	
phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit beta	3	138372860	138553780	longevity	2	54	695	
paraoxonase 1	7	94926988	95025673	longevity	6	193	529	
superoxide dismutase 1	21	33031935	33041244	longevity	13	17	73	
superoxide dismutase 2	6	160100096	160183561	longevity	6, 13	62	449	
superoxide dismutase 3	4	24797085	24802464	longevity	13	29	27	
synaptojanin 1	21	33997269	34100359	longevity	17	51	265	

synaptojanin 2	6	158402888	158520208	longevity	17	136	721	
tumor necrosis factor alpha	6	31543344	31546113	longevity	18	38	35	
Translocase of outer mitochondrial membrane 40	19	45393826	45406946	longevity	5	23	95	
telomerase RNA component	3	169482398	169482835	longevity	19	9	36	
telomerase reverse transcriptase	5	1253262	1295184	longevity	16,19	53	166	

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