

SUPPLEMENTARY TABLES

Supplementary Table 13. Metadata information for the samples used in qPCR analysis.

Name	Sex	Line	Tissue	Birth date	Death/Exit date	Age (weeks)
AgedB6-0278	Female	C57BL/6J	Heart	31-12-2017	24-08-2018	33
AgedB6-0279	Female	C57BL/6J	Heart	31-12-2017	24-08-2018	33
AgedB6-0283	Male	C57BL/6J	Heart	31-12-2017	24-08-2018	33
AgedB6-0284	Male	C57BL/6J	Heart	31-12-2017	24-08-2018	33
AgedB6-0266	Female	C57BL/6J	Heart	09-12-2017	24-08-2018	36
AgedB6-0270	Male	C57BL/6J	Heart	09-12-2017	24-08-2018	36
AgedB6-0215	Male	C57BL/6J	Heart	27-01-2017	24-08-2018	82
AgedB6-0216	Male	C57BL/6J	Heart	27-01-2017	24-08-2018	82
AgedB6-0217	Male	C57BL/6J	Heart	27-01-2017	24-08-2018	82
AgedB6-0206	Female	C57BL/6J	Heart	27-01-2017	24-08-2018	82
AgedB6-0207	Female	C57BL/6J	Heart	27-01-2017	24-08-2018	82
AgedB6-0208	Female	C57BL/6J	Heart	27-01-2017	24-08-2018	82
Type	Harvest Date	Line	Status	Source	Age (weeks)	Sex
Liver	24-08-2018	C57BL/6J	Available	AgedB6-0206	82	F
Liver	24-08-2018	C57BL/6J	Available	AgedB6-0207	82	F
Liver	24-08-2018	C57BL/6J	Available	AgedB6-0208	82	F
Liver	24-08-2018	C57BL/6J	Available	AgedB6-0215	82	M
Liver	24-08-2018	C57BL/6J	Available	AgedB6-0216	82	M
Liver	24-08-2018	C57BL/6J	Available	AgedB6-0217	82	M
Liver	24-08-2018	C57BL/6J	Available	AgedB6-0304	35	F
Liver	24-08-2018	C57BL/6J	Available	AgedB6-0278	33	F
Liver	24-08-2018	C57BL/6J	Available	AgedB6-0279	33	F
Liver	24-08-2018	C57BL/6J	Available	AgedB6-0283	33	M
Liver	24-08-2018	C57BL/6J	Available	AgedB6-0303	35	M
Liver	24-08-2018	C57BL/6J	Available	AgedB6-0303	35	M

Supplementary Table 16. Ranked average log₁₀ *p*-value for Aging Hallmark associated GO terms.

Hallmark	Average log ₁₀ (<i>p</i> -val)
EA	-0.213781602
CS	-0.411091613
AIC	-0.41500978
SCE	-0.645708596
MD	-1.387717035
GI	-1.475028755
TA	-1.758950891
DNS	-2.573837215
LOP	-19.6887982
Aging-invariant	-302.2073638