表 7. 长寿物种中受到正选择的基因(branch-site方法)。

Ensembl ID	Symbol	P value	Information of Positively Selected Sites in longevity species (P>95%)
			A7T(Microcebus murinus);A7P(Heterocephalus glaber);L40R(Cebus capucinus);L40P(Saimiri boliviensis);L40P(Microcebus
			murinus);P40R(Heterocephalus glaber);L40P(Rousettus aegyptiacus);L151P(Microcebus murinus);L151P(Heterocephalus glaber);P166R(Microcebus murinus);L151P(Microcebus murinus);L151P(
			murinus);R166L(Heterocephalus glaber);H200P(Cebus capucinus);H200R(Microcebus murinus);H200R(Heterocephalus glaber);H200R(Rousettus
			aegyptiacus);H211R(Cebus capucinus);H211R(Nomascus leucogenys);H211R(Heterocephalus glaber);R229K(Saimiri
			boliviensis);R229K(Heterocephalus glaber);A233G(Microcebus murinus);A233V(Eptesicus fuscus);A233V(Rousettus aegyptiacus);H250R(Cebus
ENSG00000158445	KCNB1	6.75E-20	capucinus);H250R(Microcebus murinus);S275F(Cebus capucinus);S275F(Heterocephalus glaber);L316P(Microcebus murinus);L316R(Myotis
			lucifugus);L316R(Rousettus aegyptiacus);S327Y(Nomascus leucogenys);S327F(Heterocephalus glaber);L338S(Nomascus
			leucogenys);L338S(Microcebus murinus);Q339R(Nomascus leucogenys);Q339R(Microcebus murinus);N480S(Cebus capucinus);N480S(Microcebus
			murinus);(3516A(Cebus capucinus);(3516E(Eptesicus fuscus);R524Q(Homo sapiens);R524Q(Myotis brandtii);R524Q(Rousettus
			aegyptiacus):D644G(Microcebus murinus):D644G(Eptesicus fuscus);T769M(Salmiri boliviensis);M769T(Microcebus murinus):T769M(Myotis
			acgyptacus),D797G(Microcebus mannas),D797G(persicus macus), 1707M(manni our miss),M79R(Rousettus acgyptiacus),E780A(Saimiri boliviensis):E780A(Microcebus mannas),D783B(Microcebus mannis),D783B(Microcebus mannis),D783B(Mic
ENSG00000100813	ACINI	2 22E 06	ucingus),w/03/(Kouseius aegypiacus),E/03/(Kouseius Refo),E/03/(Wicioceous mui mus),E/03/(Kouseius Refo),E/03/(Kouseius Refo),E/03/(Kous
ENSCIOUUUUTUUSIS	ACINI		THOMAC I INDICAC I INDICAC I INDICACO II INDICACO III IND
ENSG00000172803	SNX32	2.73E-05	leucogenys);Q362R(Rousettus aegyptiacus);S381W(Cebus capucinus)
ENSG00000140798	ARCCIA	2 92E 05	reucogenys),(3002/rt(Kousettus aegyptiactus);5351 W(Cebus captientus) D74V(Eptescius flustus);P275C(Heterocephalus glaber);1398V(Nomascus leucogenys);V398I(Heterocephalus glaber)
ENSG00000140798 ENSG000000007866			12/47(Lipiesidus liucus),12/37(Litettocepinatus giaote),15/58 ((Noniascus ieucogenys), v 3/30((Teterocepinatus giaote)) V202T(Heterocepinatus glaber),V202A(Eptesicus fuscus)
ENSG00000007800			v 202 (Heterocepinans grave), v 202 A(Epiesicus fuscus) E507C(Samiri boliviensis)
ENSG00000174483			E30/C(Saliili toutvetiss) N7S(Homo sapiens);N7S(Eptesicus fuscus)
ENSG00000153090		0.00020	N/S(Holio sapiens),N/S(Epiesicus fuscus)
LIN3G00000131838	CCDC173		S292R(Saimiri boliviensis);S292H(Heterocephalus glaber);R292H(Myotis brandtii);P435R(Saimiri boliviensis);P435L(Nomascus
ENSG00000090061	CCNK	0.00060	leucogenys);P435R(Heterocephalus glaber);P435R(Rousettus aegyptiacus)
ENSG00000180035	ZNF48	0.00074	A201E(Microcebus murinus);A201T(Heterocephalus glaber);R507C(Nomascus leucogenys);C507H(Heterocephalus glaber);C507R(Eptesicus fuscus);C507R(Rousettus aegyptiacus)
EN 10 00000001 00 45	1.07.020	0.00150	
ENSG00000176945			G428S(Homo sapiens);G428S(Nomascus leucogenys) T127L(Saimiri boliviensis);C281K(Saimiri boliviensis);S282H(Saimiri boliviensis);T2385L(Microcebus murinus)
ENSG00000074755 ENSG00000076382		0.00203	112/L(Saimiri boliviensis);C281K(Saimiri boliviensis);S282H(Saimiri boliviensis);12385L(Microcebus murinus)
ENSG00000076382 ENSG00000135077			T166A(Eptesicus fuscus);S166V(Rousettus aegyptiacus)
ENSG00000133077 ENSG00000121741		0.00278	1100A(Epiesicus iuscus),5100 v(Rouseitus aegyptiacus)
ENSG00000121741		0.00775	
LIN3G00000104434	LKKCI	0.00773	S143D(Myotis lucifugus);W144Q(Myotis lucifugus);V351I(Saimiri boliviensis);V351A(Microcebus murinus);V351T(Heterocephalus
ENSG00000168297	PXK	0.00808	glaber);1390V(Heterocephalus glaber);1390V(Myotis lucifugus)
			E137S(Eptesicus fuscus);E137D(Myotis lucifugus);E145N(Eptesicus fuscus);E145V(Myotis brandtii);P155H(Cebus capucinus);P155A(Eptesicus
ENSG00000135253	KCP	0.01407	fuscus);P170A(Homo sapiens);P170G(Eptesicus fuscus);P177R(Microcebus murinus);P177N(Eptesicus fuscus);V182Y(Eptesicus
			fuscus);T1099Y(Nomascus leucogenys)
ENSG00000114270			E865D(Microcebus murinus);E865A(Heterocephalus glaber);E865A(Rousettus aegyptiacus);E1737D(Cebus capucinus);E1737R(Heterocephalus glaber);E1737D(Cebus capucinus);E1737R(Heterocephalus glaber);E1737R(Heterocephalus glaber);E1737R(He
ENSG00000198056			N62S(Cebus capucinus);N62S(Microcebus murinus);N62S(Heterocephalus glaber)
ENSG00000162367			A2578(Nomascus leucogenys);A257G(Microcebus murinus);A257G(Heterocephalus glaber);G261A(Microcebus murinus);G261S(Eptesicus fuscus)
ENSG00000130305			R74E(Myotis lucifugus);Q75K(Heterocephalus glaber);Q75T(Myotis lucifugus);L99S(Microcebus murinus);L99Q(Rousettus aegyptiacus)
ENSG00000162849			N397S(Saimiri boliviensis);N397S(Eptesicus fuscus);N397K(Myotis brandtii)
ENSG00000153002			G260P(Eptesicus fuscus);C271A(Eptesicus fuscus);K296W(Eptesicus fuscus)
ENSG00000159082			G410R(Cebus capucinus);G410T(Heterocephalus glaber);M718C(Nomascus leucogenys);L719C(Nomascus leucogenys)
ENSG00000145907			S170G(Eptesicus fuscus);S170P(Rousettus aegyptiacus)
ENSG00000186395			G53M(Saimiri boliviensis);G53R(Heterocephalus glaber);L377G(Rousettus aegyptiacus)
ENSG00000123444	KBTBD4	0.04933	