

Supplemental Table A7. *In situ* Nd isotope of apatite in the Jindong melanosome

Sample	$^{147}\text{Sm}/^{144}\text{Nd}$	2SD	$^{143}\text{Nd}/^{144}\text{Nd}$	2SD	$(^{143}\text{Nd}/^{144}\text{Nd})_i$	$\epsilon_{\text{Nd}}(t)$
YK17-56-01	0.30229	0.00018	0.512192	0.000026	0.511721	-11.9
YK17-56-02	0.30811	0.00005	0.512168	0.000027	0.511688	-12.6
YK17-56-03	0.31571	0.00007	0.512185	0.000026	0.511693	-12.5
YK17-56-04	0.31249	0.00010	0.512195	0.000023	0.511708	-12.2
YK17-56-05	0.30198	0.00009	0.512187	0.000025	0.511717	-12.0
YK17-56-06	0.30519	0.00018	0.512195	0.000026	0.511720	-11.9
YK17-56-07	0.30968	0.00017	0.512203	0.000023	0.511720	-11.9
YK17-56-08	0.31895	0.00008	0.512198	0.000023	0.511701	-12.3
YK17-56-09	0.31187	0.00011	0.512206	0.000023	0.511720	-11.9
YK17-56-10	0.31434	0.00008	0.512153	0.000023	0.511663	-13.1
YK17-56-11	0.30311	0.00006	0.512125	0.000025	0.511653	-13.2
YK17-56-12	0.30891	0.00009	0.512174	0.000024	0.511693	-12.5
YK17-56-13	0.31530	0.00016	0.512172	0.000024	0.511680	-12.7
YK17-56-14	0.31263	0.00005	0.512187	0.000028	0.511700	-12.3
YK17-56-15	0.31275	0.00009	0.512192	0.000024	0.511705	-12.2

Note: $\epsilon_{\text{Nd}}(t) = [(^{143}\text{Nd}/^{144}\text{Nd})_s / (^{143}\text{Nd}/^{144}\text{Nd})_{\text{CHUR}} - 1] \times 10000$; $t = 238$ Ma. In the calculation, $(^{143}\text{Nd}/^{144}\text{Nd})_{\text{CHUR}} = 0.512638$, $(^{147}\text{Sm}/^{144}\text{Nd})_{\text{CHUR}} = 0.1967$, $(^{143}\text{Nd}/^{144}\text{Nd})_{\text{DM}} = 0.51315$, $(^{147}\text{Sm}/^{144}\text{Nd})_{\text{DM}} = 0.2136$, $(^{147}\text{Sm}/^{144}\text{Nd})_c = 0.118$, $\lambda = 6.54 \times 10^{-6}$.