

Supporting Information

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Table S1. Measurements (in mm) of integumentary filaments in several nonavian theropods

Measured area	<i>Sinosauropteryx</i> (IVPP V12415)	<i>Dilong</i> (IVPP V11579)	<i>Sinornithosaurus</i> (IVPP V12811)	<i>Beipiaosaurus</i>
Filament width	0.08–0.2	0.3	0.3	2–3
Filament length (skull)	9 (90)	?	25–45 (150)	100–150 (200)
Filament length (cervical 2)	12 (9)	?	X	130 (30)
Filament length (distal caudals)	40 (13)	20 (20)	X	>80 (12)

Numbers in parentheses pertain to the skeletal elements associated with the filaments. The length of the filaments associated with the distal caudals in *Beipiaosaurus* was obtained from the holotype, and other lengths were obtained from STM31-1. Measurements for *Sinornithosaurus* are from the neck and cranial region.