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| **Species** | **Characters** | ***P*. *houi*** | |
| **ZMNH M12414** | **IVPP V12617** |
| *P*. *meileyingensis* | preorbital length only approximately 30% of skull length | - | - |
| subtriangular orbit with acute ventral corner | - | - |
| rugose quadratojugal eminence | - | - |
| *P*. *mongoliensis* | a raised lip on the orbital margin of the prefrontal | - | - |
| transverse expansion of the distal end of the ischial blade to approximately twice its width at mid-shaft | ? | ? |
| *P*. *neimongoliensis* | posterior end of the nasal contacting its opposite in the midline (not separated by the frontal) | ? | - |
| frontal interorbital width approximately 30% of frontal length | - | - |
| postorbital extending along the margin of the orbit (rather than inset from the margin by the frontal in dorsal view) | - | - |
| *P*. *sibiricus* | laterotemporal fenestra subequal in maximum height and anteroposterior length | - | - |
| postorbital ventral process with subvertical orientation set at an angle of approximately 95°to the posterior process | - | - |
| postorbital with small dorsal horn | - | - |
| enlarged palpebral subequal in transverse width to the adjacent skull roof | ? | ? |
| palpebral posterior margin nearly straight and angled anterolaterally | ? | ? |
| predentary dorsoventrally compressed with a wedge-shaped profile with external margins set at approximately 30° | - | - |
| angular with arcuate ventral extension of the dentary flange | - | - |
| angular process projecting laterally at posterior end of the ventral flange of the mandible | - | - |
| 14 dorsal vertebrae | ? | ? |
| *P*. *sinensis* | pendant rostrum that positions the ventral edge of the rostral bone below the level of the maxillary tooth row | - | - |
| anteroventral processes of the nasal separated in the midline by a narrow gap | - | - |
| short lower jaw that positions the anterior margin of the predentary in opposition to the premaxilla rather than the rostral | - | - |
| posteriorly flaring skull roof with postorbital-squamosal bars diverging at an angle of approximately 30° | ✓ | ✓ |
| absence of the maxillary fossa | - | - |
| absence of the maxillary protuberance | - | - |
| vertically elongate horn on the postorbital bar split between jugal and postorbital | - | - |
| frontal participation in the supratemporal fossa | ✓ | ✓ |
| ectopterygoid far removed from postpalatine foramen by broad maxilla-pterygoid contact | - | - |
| internal mandibular fenestra reduced to a foramen | ? | ? |
| absence of ossified tendons | ? | ? |
| prepubic and postpubic processes transversely broad throughout their length (transversely wider than dorsoventrally tall) | ? | ? |
| prepubic process projecting anteriorly as far as the preacetabular process of the ilium | ? | ? |
| *P*. *xinjiangensis* | hook-shaped palpebral with V-shaped posterior margin | ? | ? |
| dentary teeth with as many 21 denticles in the posterior center of the tooth row | ? | - |
| ossified tendons extending into mid-caudal vertebrae | ? | ? |
| narrow iliac postacetabular process with height at midlength less than 25% of the length of the process | ? | ? |
| *P*. *gobiensis* | pyramidal horn on the postorbital bar composed almost entirely of the postorbital | - | - |
| postorbital–jugal fossa | - | - |
| minimum width of the postorbital bar approximately 50 per cent the width of the base of the process | - | - |
| retroarticular process deflected posteromedially at an angle of 40 degrees from the axis of the mandible | - | - |
| thin and restricted enamel on medial and lateral aspects of the maxillary and dentary crowns, respectively | ? | ? |
| *P*. *amitabha* | a relatively longer snout than *Psittacosaurus* *mongoliensis*, with a less steeply inclined anterior rostronasal margin | ✓ | ✓ |
| a cranium dorsally convex rather than flat | - | - |
| a subtemporal length less than 40% of total skull length | ? | ? |
| 5 premaxillary foramina arranged in an arc | - | ? |
| posterior lamina of the maxilla cupped around the toothrow | - | - |
| an antorbital fossa as long as tall | - | - |
| a palpebral with a well-developed posterior tonguelike process | ? | ? |