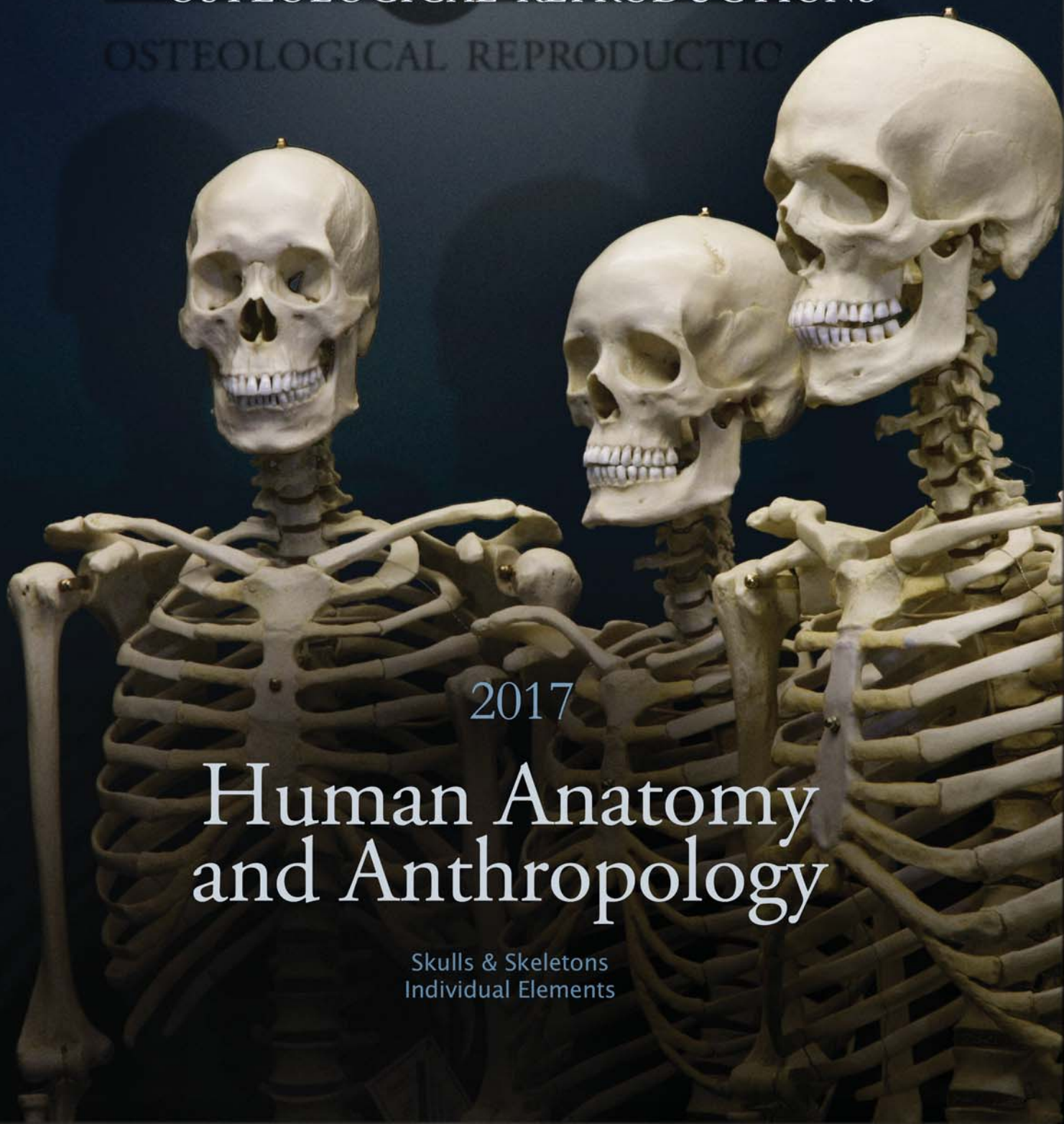


Bone Clones®

OSTEOLOGICAL REPRODUCTIONS

OSTEOLOGICAL REPRODUCTIO



2017

Human Anatomy and Anthropology

Skulls & Skeletons
Individual Elements



BONE CLONES

INCORPORATED

OSTEOLOGICAL  REPRODUCTIONS

This catalog represents the human, fossil hominid and non-human primate portion of our product line, which includes a wide range of specimens including: anatomically modern humans, archaic humans, early *homo*, and other hominids, examples of ancestry (African, Asian, European), sex, age (fetal, child, adolescent, adult), pathology, and trauma.

In these pages and on our website you will find an impressive collection of skulls, full and partial skeletons, individual cranial and postcranial bones, comparative sets and bone boxes, physical therapy joints, brains, endocasts, life casts, printed 3D scans, reduced and enlarged scale specimens, sculpture, and more.

Bone Clones® are hand-made from start to finish in the United States and are widely used in numerous educational settings from science centers to institutions of higher and lower education, and museum exhibits.



Bone Clones®
Co-Founder, Dave Kronen





HUMAN ANATOMY ANTHROPOLOGY 2017



**Exceptional Originals
Durable Custom Resin
Detail Fidelity
Hand Finished
Made in the USA**

All Bone Clones® products in this catalog are produced and handmade by Bone Clones, Inc. in the USA and are protected under State, Federal and International trademark laws. Photographs, text, descriptions or casts cannot be reproduced without the written consent of Bone Clones, Inc. Please note that prices are subject to change without notice.

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Whether referred to by their brand name, or as replicas, reproductions, casts, or models, Bone Clones® meet our original goal: to create duplicates of life-sized animals and humans cast in a custom-formulated polyurethane resin that are "Virtually Indistinguishable From the Original."™

Only Mother Nature Does It Better™

B

Bone Clones Osteological Reproductions



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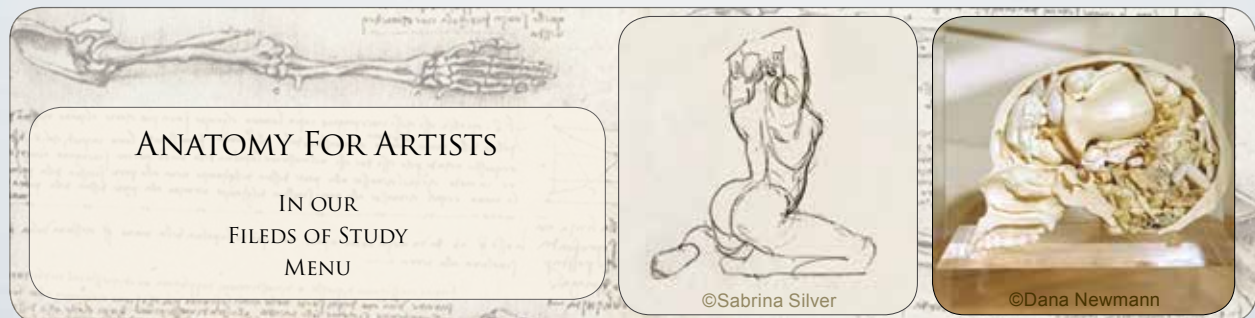
1-800-914-0091



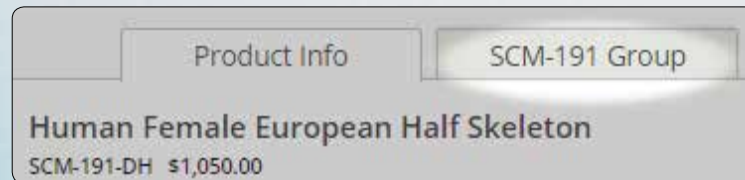
Fields of Study	Elements	Pathology & Trauma	Sets & Series	New Products	
Human Anatomy	Zoology	Fossil Hominids	Primates	Paleontology	Forensics

A fact that surprises many is that Bone Clones had an online store in 1995 – when the world-wide-web and e-commerce were just beginning. This original site helped spread the word about our unique product line for two decades.

As the diversity and scope of our products and customers grew we realized the need for a website with easier navigation. The twelve zoological products we had started with had grown to thousands, including extinct and extant animals and humans, products relevant to diverse fields of study, such as human anatomy, anthropology, forensics, as well as many other disciplines.

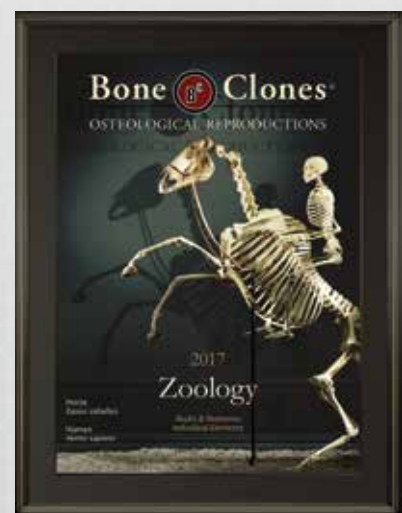


In 2015 we launched a new and improved website showcasing each of our osteological replicas on its own page with high quality photographs and informative descriptions of the item. Some products (skeletons, sets) feature a group tab on the upper right hand corner. Clicking this tab leads to a page showing multiple items from that particular skeleton or set. You can select and purchase multiple or single postcranial parts, whether it be a hand, foot, pelvis, tibia or femur, or, in the case of sets, one or more of the individual component parts.



As our product line grew, we found it practical to make two catalogs: one for our zoological products and one for our human anatomy, which includes fossil hominids and primates. We found that educational customers are often interested in one or the other of those categories, but of course, in some instances there is crossover interest. Non-human primates appear in both catalogs.

If you receive one of our catalogs and would like to receive the other, please let us know.



Order on our website: www.boneclones.com
 Order by phone: 818-709-7991 or 800-914-0091 (USA customers only)
 Order by Fax: 818-709-7993 Order by e-mail: order@boneclones.com
 Order by mail: Bone Clones, Inc. • 21416 Chase Street #1
 Canoga Park, CA 91304 • U.S.A.



Payment:



We accept Visa, Mastercard, American Express and Discover. Checks or money orders can be mailed to us, made payable to Bone Clones. Allow 10 days for personal checks to clear. Sorry, we do not ship COD.

Educational institutions can fax, mail or e-mail us your Purchase Order.

Shipping:

Your address: Please provide us with your shipping and billing address (if different), email, and a daytime phone number.

Our preferred shipping method is to a street address. If you have special shipping needs, please advise us.

Specify: Item #, description, quantity and price. Add shipping charges, per chart below. California residents, add Sales Tax.

Domestic Ground Charges: (Additional charges apply to Hawaii and Alaska)

Up to \$50	\$10.50	\$201 to \$250.....	\$21.00
\$51 to \$100.....	\$12.50	\$251 to \$300.....	\$25.00
\$101 to \$150.....	\$17.75	\$301 to \$400.....	\$29.00
\$151 to \$200.....	\$18.75	Over \$400.....	7% of order

We will be happy to quote you shipping charges for items that require special crating and shipping.

Rush orders: For expedited 2 day air service add \$20.00 to above charges. For next day air service add \$38.00.

International Orders: Shipping charges depend on size, weight and the level of service. We will quote you the shipping and handling charges. Please note that there may be additional charges in the recipient country such as customs duties, VAT taxes, etc., which are the responsibility of the recipient. Our commercial invoice indicates that Bone Clones® are educational products and in some instances, this can impact the charges favorably.

D

Bone Clones Osteological Reproductions



ORDERING

1-800-914-0091



Human Skeleton, Postcranial

Prices and part numbers listed are from our SC-092 Male Asian Skeleton.
(Each part is available from every human skeleton. Prices may vary.)

Hyoid	SC-092-02	\$35.00
Clavicle.....	SC-092-01	\$20.00
Scapula.....	SC-092-04	\$85.00
Sternum	SC-092-05	\$52.00
Humerus	KO-092-H	\$56.00
Radius	SC-092-61	\$40.00
Ulna	SC-092-62	\$40.00
Coccyx.....	SC-092-59A.....	\$15.00
Arm, Disarticulated w/ Semi-Articulated Hand.....	SC-092-67S.....	\$220.00
Arm, Articulated w/ Articulated Rigid Hand	SC-092-67-AS	\$393.00
Hand, Articulated Rigid	H-02-M.....	\$135.00
Hand, Articulated Premium Flexible	H-01-M.....	\$189.00
Hand, Disarticulated	H-04-M.....	\$145.00
Hand, Semi-Articulated.....	H-03-M.....	\$115.00
Vertebra, Cervical Single	SC-092-10	\$20.00
Vertebra, Thoracic Single	SC-092-20	\$20.00
Vertebra, Lumbar Single.....	SC-092-30	\$20.00
Cervical Verts, Set of 7	SC-092-14C.....	\$132.00
Thoracic Verts, Set of 12	SC-092-26T	\$228.00
Lumbar Verts, Set of 5.....	SC-092-31L	\$95.00
Set of 3 Cervical, Thoracic, Lumbar	SC-092-10-SET	\$56.00
Vertebral Column.....	SC-092-31S	\$390.00
Rib T-1	SC-092-33C.....	\$18.00
Rib T-6	SC-092-33T	\$18.00
Rib T-12.....	SC-092-33L	\$18.00
Full Ribs, Set of 24	SC-092-56S.....	\$390.00
Innominate.....	SC-092-57	\$75.00
Pelvis, Disarticulated	KO-093-PD	\$198.00
Pelvis, Articulated	KO-093-P.....	\$155.00
Femur	SC-092-F	\$56.00
Sacrum	SC-092-77	\$48.00
Tibia.....	SC-092-69	\$45.00
Fibula.....	SC-092-70	\$36.00
Patella.....	SC-092-72	\$18.00
Leg, Articulated w/ Articulated Rigid Foot.....	SC-092-75-A.....	\$333.00
Leg, Disarticulated w/ Disarticulated Foot	SC-092-75S.....	\$215.00
Foot, Articulated Rigid	F-02-M	\$135.00
Foot, Articulated Premium Flexible.....	F-01-M	\$189.00
Foot, Disarticulated.....	F-04-M	\$145.00
Foot, Semi-Articulated.....	F-03-M	\$115.00
Humerus, Scapula, Clavicle Set.....	SC-092-HSC.....	\$150.00



Please visit our website for an extensive listing of available human skeletons and their associated postcranial elements and individual parts.



www.boneclones.com



Bone Clones Osteological Reproductions

SKELETON POSTCRANIAL

E

Human European Skeletons, Maxwell Collection



**Human Male European
Articulated Skeleton**
5' 8" Tall
SCM-192-A.....\$2,495.00

**Human Female European
Articulated Skeleton**
5' 6" Tall
SCM-191-A.....\$2,495.00



**MAXWELL
MUSEUM**
OF ANTHROPOLOGY

The Maxwell Museum of Anthropology's Laboratory of Human Osteology, at the University of New Mexico, serves as a repository of human remains and includes prehistoric, historic, documented, and forensic remains. Information on the sex, age, population affinity, and cause of death is available for the majority of these individuals. A portion of the sales goes to further their work.

See pp 40-43 for additional pieces from the Maxwell Museum.

Bone Clones is grateful to the Maxwell Museum for allowing us to select specimens for reproduction from their valuable collection and granting us exclusive casting rights to these pieces. The license to cast from originals in the Maxwell Museum's collection provides the means for researchers in distant locations to study numerous and diverse osteological characteristics.

Please note that specimens from the Maxwell Collection can only be sold to recognized educational institutions and professionals associated with educational institutions.

See our website
for a complete
listing of available
human skeletons



**See pages E & 5
for individual parts and
articulation options.**

Human Asian Skeletons



**Human Male Asian
Articulated Skeleton**
6' Tall
SC-092-A..... \$2,395.00

**Human Female Asian
Articulated Skeleton**
5' Tall
SC-211-A..... \$2,395.00

**Human Male Asian Robust
Articulated Skeleton**
5' 6" Tall
SC-287-A..... \$2,395.00



www.boneclones.com



Bone Clones Osteological Reproductions

ASIAN SKELETONS

3

Pristine examples of adolescent skeletons are rare finds in teaching collections. The developing skeleton is very different from adult skeletons -- the numerous ossification centers and growth plates can dramatically change the appearance of individual bones. Learning how to assess and gauge the degree of skeletal maturation is a very basic but critical skill for students of anatomy. Thus, having such a specimen available for laboratory teaching purposes is invaluable. Furthermore, as even the busiest forensic osteologists and anthropologists only rarely encounter the skeletonized remains of adolescents, this specimen may serve as a useful reference tool during the evaluation of individual cases. The totality of features of this specimen, including those of the skull, dentition, epiphyseal union and bone length, suggests an age between 15 and 18 years. While race and sex cannot be reliably determined on subadult remains, the features of race of this individual are overwhelmingly Asian. Sexual attributes are suggestive but not diagnostic of male sex.



Stand Included



**Human Adolescent Skull
Calvarium Cut**
7 1/2" L, 5 1/2" W, 8" H
BC-305 \$279.00



Human Adolescent Skull
7 1/2" L, 5 1/2" W, 8" H
BC-301 \$230.00



**Human Adolescent
Half Skeleton, Disarticulated
with BC-305 Calvarium Cut Skull**
Skeleton provided with hand and
foot completely disarticulated.
SC-301-DH \$1,420.00



See our website
for postcranial
list and more
information.

**Human Adolescent
Skeleton,
Articulated**
5' 1/2" Tall
SC-301-A \$3,225.00



**Human Adolescent Skeleton,
Disarticulated**
One hand and foot rigidly articulated,
one hand and foot disarticulated.
SC-301-D \$2,025.00

Human Skeleton Options

The options shown below are available for every human skeleton. Prices may vary.

Shown:
SC-092-DH



Human Half Skeleton, Disarticulated with Calvarium Cut Skull

Skeleton provided with hand and foot completely disarticulated.

Male Asian SC-092-DH.....\$989.00
Female Asian SC-211-DH.....\$989.00
Male European SCM-192-DH.....\$1,095.00
Female European SCM-191-DH.....\$1,095.00
Male Asian Robust SC-287-DH.....\$990.00

See our website for
all half and partial
human skeletons



Human Adult Male Arm
with Scapula,
Articulated w/ rigid hand
SC-092-67-AS ...\$393.00

Human Adult Male Leg,
Articulated w/ rigid foot
SC-092-75-A\$333.00

See our website
for all human
arms and legs



Shown:
SC-092-D



Human Skeleton, Disarticulated

One hand and foot rigidly articulated,
one hand and foot disarticulated.

Male Asian SC-092-D.....\$1,450.00
Female Asian SC-211-D.....\$1,450.00
Male European SCM-192-D.....\$1,595.00
Female European SCM-191-D...\$1,595.00
Male Asian Robust SC-287-D....\$1,450.00



See our website for
all disarticulated
human skeletons



Premium Skeleton Case
Accommodates Bone
Clones® disarticulated
skeleton or 6 skulls. Hard
case construction with
black vinyl covering.
26" L, 15" W, 8" H
S-16.....\$189.00



**Skeleton Case
Corrugated Plastic**
Accommodates Bone
Clones® disarticulated
skeleton or 6 skulls. Light
weight and economical.
26" L, 15" W, 8" H
S-93.....\$89.00



www.boneclones.com



Bone Clones Osteological Reproductions

**HUMAN SKELETON
OPTIONS AND PARTS**

5



Bone Clones®

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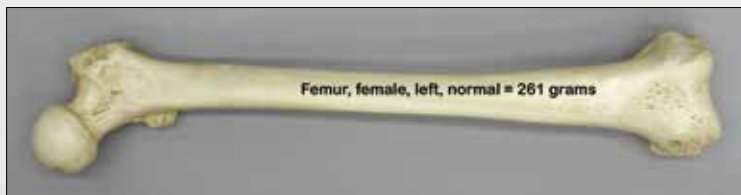
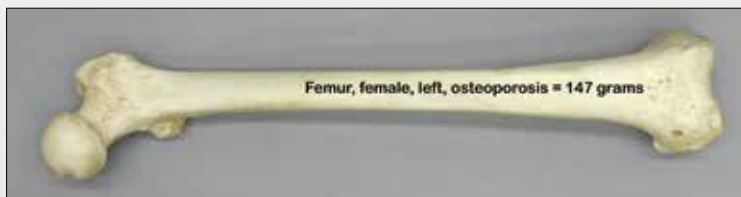


**Human Cervical
Vertebrae and
Occipital Assembly**

4" W x 9" H

KO-249.....\$186.00

Human Cervical Vertebrae and Occipital Assembly includes C1 through C7 with the occipital bone. This assembly allows educators and practitioners to point out the details of the architecture of each cervical vertebra.



**Human Adult Female Femur, Osteoporosis, Comparative Set
15 3/4" L**

KO-170-SET.....\$120.00

(Also Sold Individually)

This comparative pair of femurs illustrates that the condition created by osteoporosis is not detectable by merely looking at the outside of the bone. A bone density test would reveal the great difference between the healthy (261g) and osteoporotic bone (147g).



Bone Box – Left Side Only (Case S-82 Included)

Available for male or female, each kit comprises a selection of key bones from an adult skeleton (greater than 35 years of age), including long bones, the fifth rib, key vertebrae, rigidly articulated hand and foot, hyoid, clavicle, scapula, sternum, innominate, sacrum, coccyx and patella. The kit also provides an exceptionally detailed skull featuring a removable calvarium and spring-hinged jaw. Detailed enough to offer an excellent model for teaching anatomy to medical, dental, and nursing students. Plastic carrying case S-82 included.



**Bone Box - Female, Left Side Only
COMP-110-F\$728.00
(Shown)**

**Bone Box - Male, Left Side Only
COMP-110-M.....\$728.00
(Not Shown)**

Also available, see pg 25:

Bone Box - 5-year-old Child

**Skeleton Case, Corrugated Plastic
17 1/2" L, 12" W, 10" H
S-82 (Included)**



**Premium Carrying Case
(Sold Separately)
26" L, 15" W, 8" H
S-16\$189.00**



Half Scale Skulls: Hominids, Ancestry/Sex

Introducing our latest project: replica half scale (1:2) versions of Bone Clones® skulls. We 3D scanned our full-sized skulls, printed them at half-scale, then meticulously prepared them for molding. The resulting cast—a perfect duplicate of the original Bone Clones® skull at half the scale—is then finely hand-finished. We think they're beautiful, useful, and a little addicting. They provide an affordable, compact solution for K-12 educators who want to give their students hands-on experience, and for collectors with great enthusiasm, but limited space. Plus, they make great gifts!

Full 1:1 scale *Homo neanderthalensis* Shanidar 1 Skull (BH-050, see pg. 48) for size comparison only, not included.

Set of 4 Half Scale Fossil Hominid Skulls

Ardipithecus ramidus, *Australopithecus afarensis* "Lucy", *Homo ergaster* "Turkana Boy", *Homo neanderthalensis* "Shanidar 1"

TSBH-COMP-1..... \$475.00

Also Available Individually, \$125.00 Each

(For full-scale (1:1) versions, see pp. 48-51.)



Male African
TSBC-110

Male Asian
TSBC-253

Male European
TSBC-107



Female African
TSBC-178

Female Asian
TSBC-149

Female European
TSBC-133

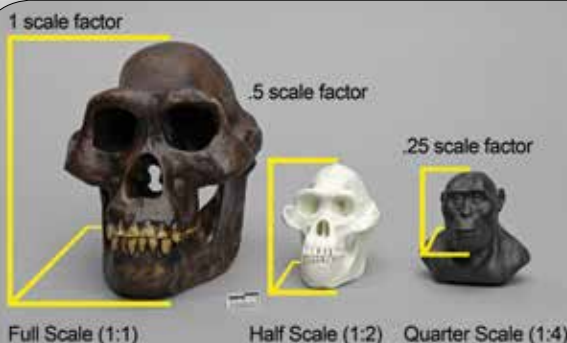
Set of 6 Half Scale Male & Female Skulls
TSCOMP-120.....\$625.00

Also Available Individually, \$110.00 Each

Set of 3 Half Scale Human Male Skulls
TSCOMP-121.....\$315.00

Set of 3 Half Scale Human Female Skulls
TSCOMP-122.....\$315.00

For full-scale (1:1)
versions, see pg. 18.



About Scale

Uniform scaling is a proportional increase or decrease in size from the original. The number by which the dimensions of a shape are multiplied (changed) is called the scale factor.

2d: Area = length x width (squared units)

3d: Volume = length x width x depth (cubic units)

Half scaled objects appear smaller than expected. This is because when a 3-dimensional object is scaled down, for example, by a factor of 1/2, its volume goes down to 1/8 the original: the object is half as wide, half as deep and half as tall. The change in volume is equal to the scale factor cubed (ex: $1/2^3 = 1/8$). To visualize: eight of the 1:2 scale objects fit into the volume of one 1:1 full scale object.



www.boneclones.com



Bone Clones Osteological Reproductions

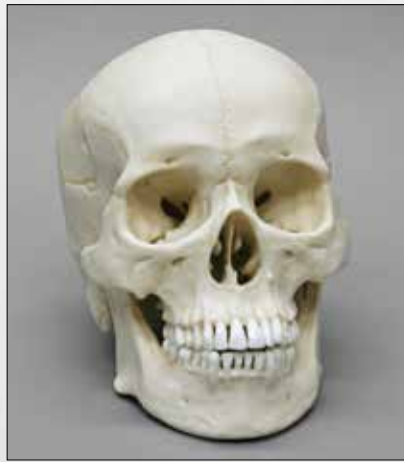
HALF SCALE SKULLS

7

Premium Human Skulls

Bone Clones® are an excellent alternative to natural bone. We are very selective in the originals we cast from and concentrate on retaining the organic elements that are essential for study. As the availability of natural bone skulls diminishes, Bone Clones® are being selected by many universities for their advanced teaching programs.

Bone Clones, Inc. produces an extensive selection of human skulls ranging from prenatal to elderly, sex, ancestry, trauma, and pathology.



Male Asian
8 ½" L, 5" W, 6" H
BC-016\$235.00



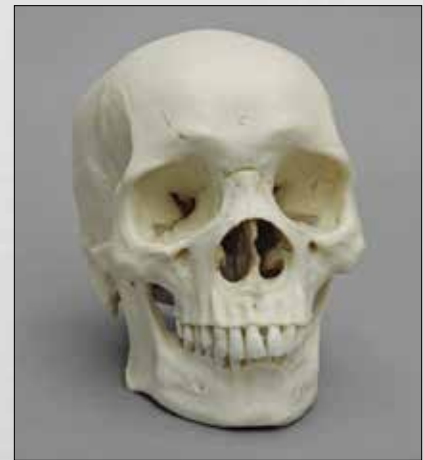
Human Male Asian, Robust
8" L, 6" W, 7 ½" H
BC-287\$255.00



Female American Indian
7 ½" L, 5 ½" W, 7 ½" H
BC-213\$270.00



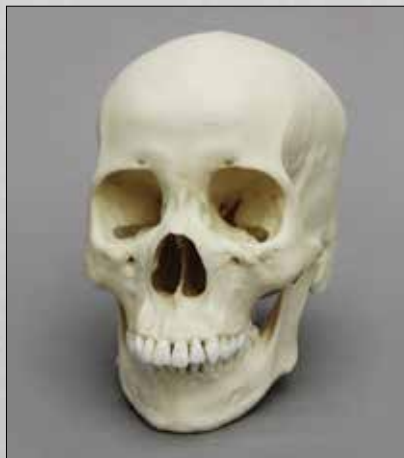
Male Australian Aboriginal
8 ½" L, 5" W, 6" H
BC-031\$245.00



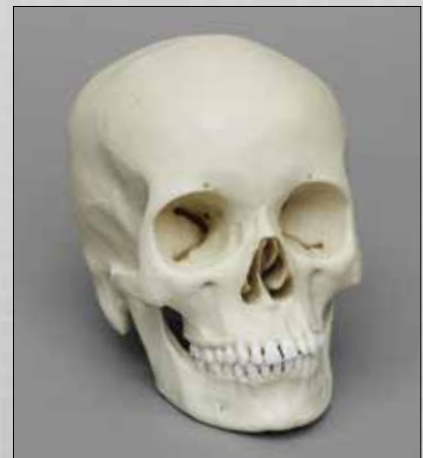
Male African
7 ½" L, 5" W, 6 ½" H
BC-110\$230.00



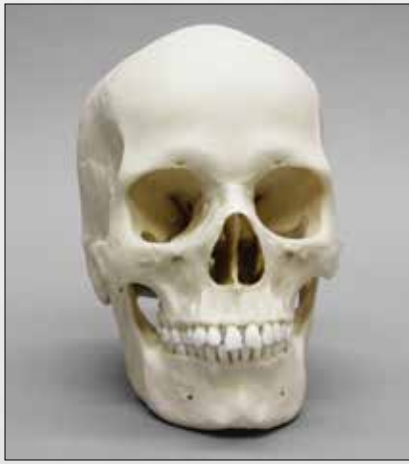
Female Asian
8 ¼" L, 4 ¾" W, 7 ¼" H
BC-211\$225.00



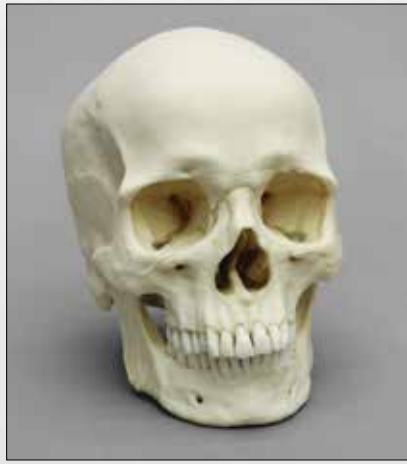
Female Asian
7 ¾" L, 5" W, 6 ¾" H
BC-149\$230.00



Female Asian
7" L, 5 ¼" W, 6 ¾" H
BC-299\$235.00



Female European
7 1/2" L, 5" W, 7 1/2" H
BC-133\$230.00



Male European
7 1/2" L, 5 1/2" W, 7" H
BC-107\$230.00



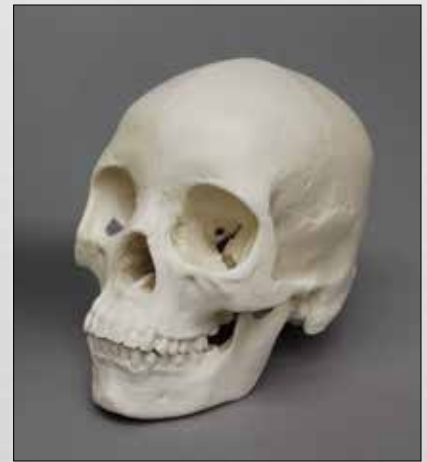
Female African-American
8" L, 5" W, 7" H
BC-178\$235.00



Male African-American
8" L, 5 1/2" W, 8" H
BC-203\$235.00



Male Asian
8" L, 5" W, 7 1/2" H
BC-253\$230.00



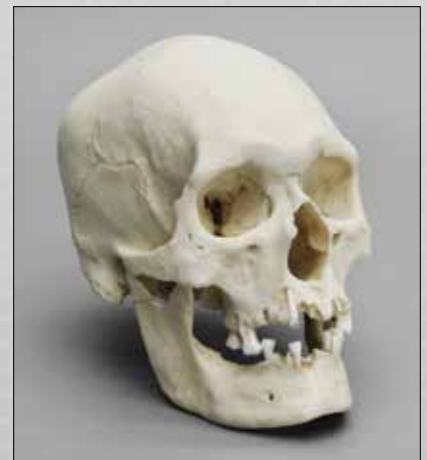
Female Asian, Economy
7" L, 5" W, 6 1/2" H
BC-059E\$140.00



Male European
8" L, 5 1/2" W, 7 1/2" H
BCM-892\$249.00



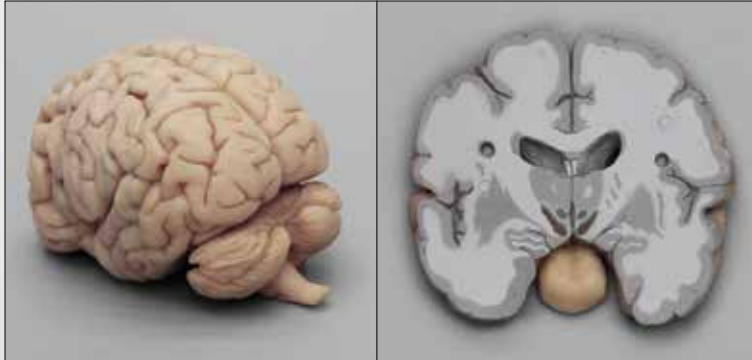
Female European
7 1/2" L, 5" W, 8" H
BCM-891\$249.00



Male Polynesian
8" L, 5 1/2" W, 8" H
BC-302\$295.00



Bone Clones® Exclusive Casting of the Brain



The ©Human Brain in Multiple Frontal (Coronal) Sections offers an innovative way to study the structure of the brain. Because of the three-dimensional characteristics of the adult brain, the appearance of gross neuronal structures differs depending on the plane of section. Current diagnostic tests available allow for various views of structures in the same patient. Given that neurologic anatomical markers are often used to confirm suspected diagnoses, students in Health Sciences must become adept at deciphering neurologic structures from various views. We are proud to offer the Bone Clones® Human Brain in frontal (coronal) section, which has been created in consultation with Cara Davies, Ph.D. Dr. Davies has also created an extensive lesson plan, which is provided with a KO-515 purchase.

Human Brain
Multiple Frontal Sections
KO-515..... \$775.00



Discreet built-in magnets and push-fit mating surfaces make it easy to fit and hold sections of the brain firmly together.



Osteological Evaluation Reports



Informative evaluation reports are available for most of our human skeletons, skulls and some postcranial items. These reports were prepared by Evan Matshes, M.D., Karen Ramey Burns, Ph.D., forensic anthropologist, or Tori D. Randall, Ph.D., biological anthropologist.

The reports contain information regarding general characteristics of the specimen, sections concerning the age, sex, and ancestral affiliation, with a clear indication of the non-metric measures that went into the determination (or inability to make a determination) of such. Pathologic or traumatic features are also assessed.

A listing of available osteological evaluation reports can be found on our website under the **Human Anatomy category**. A printed version of the 4-8 page report is sent with each Bone Clones® purchased for which a report exists.




See our website
for more
information.

Advice and review by clinical anatomists, forensic anthropologists and others have enabled us to concentrate on reproducing the osteological elements that are essential for understanding the complex anatomy of the human skull. Well-defined sutures, foramina, cranial nerves, cranial arteries, and other fine neural passages of the head distinguish Bone Clones® Advanced Anatomy Skulls from other available models of the human skull. On the following pages you will find a number of dissected skull replicas of incomparable quality, suitable for medical study.

<p>1.</p> 	<p>2.</p> 	<p>1. Human Female European, Calvarium Cut 7 ½" L, 5" W, 7 ½" H BC-150\$279.00</p> <p>2. Human Male European, Calvarium Cut 7 ¾" L, 5 ¼" W, 7 ¾" H BC-212\$279.00</p> <p>Human Male and Female Calvarium Cut Comparative Set (Includes Both Skulls) BC-150-212\$530.00</p> <p>Display Stands available for \$38 each</p> <p>Brains available (See Below)</p>
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Human Male and Female Calvarium Cut Skulls

These upgraded calvarium cut skulls accurately reproduce the internasal and median palatine sutures, and all foramina (lacerum, spinosum, ovale, stylomastoid, ethmoidal and that of the cribriform plate). Other details include the dorsum sellae and a clear distinction between the superior-posterior vomer and the body of the sphenoid. Removable calvarium and spring-hinged jaw.



Human Male Asian, Calvarium Cut Skull with Brain and Stand
8" L, 5 ½" W, 8" H
BC-092-SET\$435.00
BC-092 (Skull Only)\$259.00



Shown:

- BC-150 Human Female European Calvarium Cut Skull
- S-BC-150 Display Stand
- KO-510 Human Brain

(Each Sold Separately)



Human Brain
(Fits Skull BC-150)
5 ½" L, 4 ½" W
KO-510 \$195.00

Human Brain
(Fits Skulls BC-092 and BC-212)
6" L, 5" W, 5" H
KO-092 \$165.00

About Calvarium Cut Skulls

Bone Clones' production techniques allow for the representation of the following patent foramina at an economical price: optic canal, superior orbital fissure, inferior orbital fissure, foramen rotundum, foramen ovale, foramen lacerum, jugular foramen, hypoglossal canal, carotid canal.



Human Endocranium (From Skull BC-092)
7" L, 5 ½" W, 5" H
KO-092E \$135.00



www.boneclones.com



Bone Clones Osteological Reproductions

ADVANCED ANATOMY

11

Advanced Anatomy



Scale (14 to 1) Human Ossicles Set of 6, L & R

(Malleus, Incus, Stapes)

Human ear ossicles are the smallest bones in the body, making them difficult to see with the naked eye. Using micro-CT scans and 3D printing, we have enlarged them to 14:1 scale, allowing a clear view of the delicate anatomy.

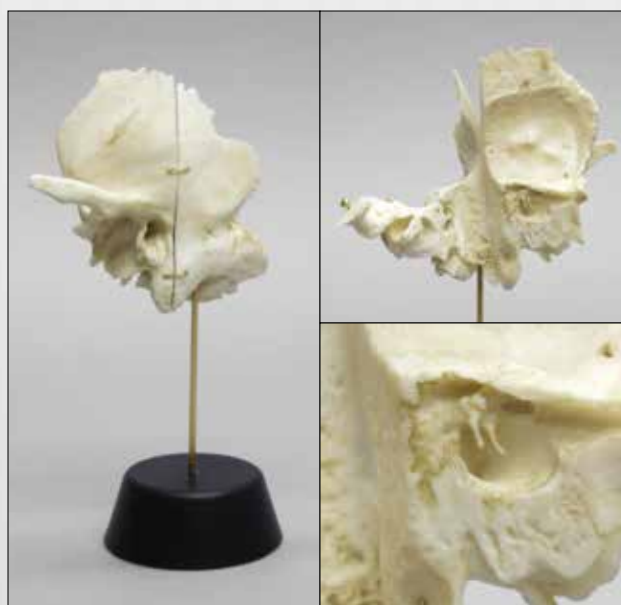
KO-236-SET\$145.00



Life-size Human Ossicles Set of 6, L & R

(Malleus, Incus, Stapes)

KO-234-SET\$79.00



Human Temporal Bone, Hinged

(Stand Included)

The complex temporal bone has been cut in three pieces and hinged together, while retaining the detail to reveal eight patent foramina and other intricacies. Ideal for instruction of the inner workings of the ear.

3 3/4" L, 2 1/2" W, 3 1/2" H (Off Stand)

8" H (On Stand)

KO-320.....\$210.00

Human Sphenoid, Ethmoid, and Temporal Bone Set

Set reveals all foramina, canals and other minute details.

KO-191-020-SET..... \$379.00



Human Sphenoid Bone in Plastic Case
KO-191-001.....\$145.00



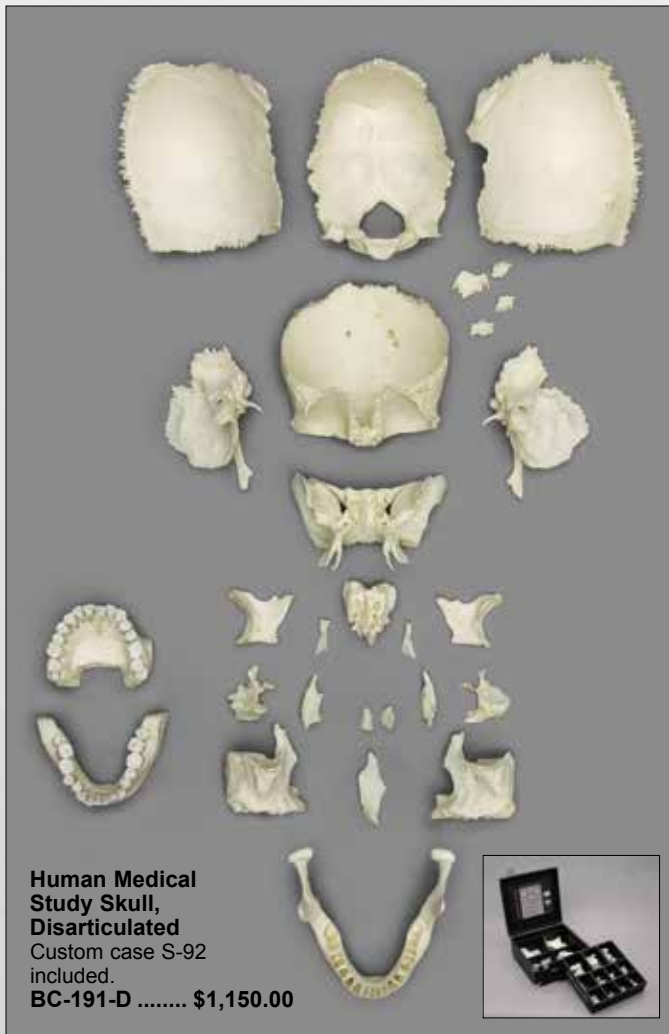
Human Ethmoid Bone in Plastic Case
KO-191-002.....\$128.00



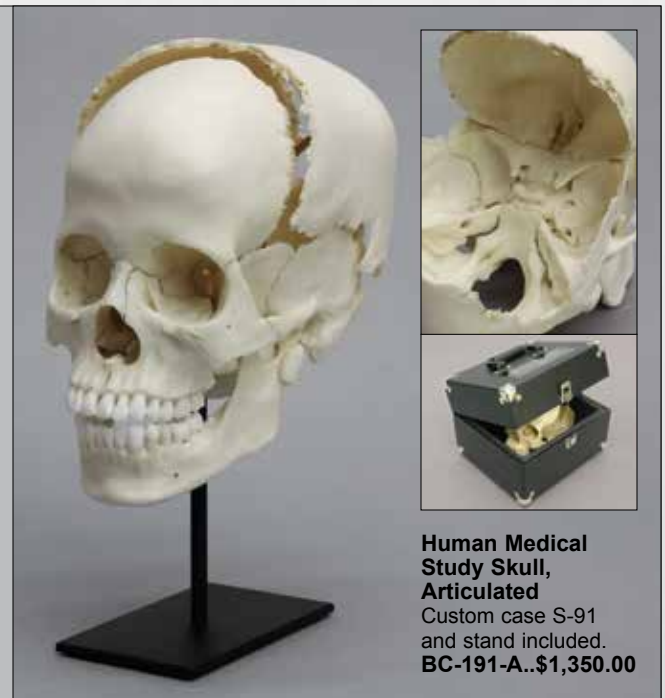
Human Temporal Bone in Plastic Case
KO-191-009.....\$136.00

Articulated and Disarticulated Bone Clones® Human Medical Study Skulls

For advanced study of foramina, canals, sutures and processes



Human Medical Study Skull, Disarticulated
Custom case S-92 included.
BC-191-D \$1,150.00



Human Medical Study Skull, Articulated
Custom case S-91 and stand included.
BC-191-A..\$1,350.00

Both products include neuroanatomical supplemental material: 2 charts and 1 poster by Noel Boaz Ph.D., M.D. & David Kronen

Our premier anatomy skull shows all the foramina, canals, sutures and fine details of bone edges of a real skull. Ideal for advanced study, foramina are bristle-patent, making student exploration of perforating cranial nerve branches and blood vessels possible. Comprising the 22 cranial bones (and 32 removable teeth) of our completely disarticulated version, our articulated skull is cradled on a stand, with parietal bones separated, giving access to the interior cranium.



Human Male European Skull with Calvarium Cut, Numbered
BC-293 provides 79 numbered landmarks and a corresponding printed list.
7 3/4" L, 5 1/4" W, 7 1/2" H
BC-293 \$335.00



www.boneclones.com



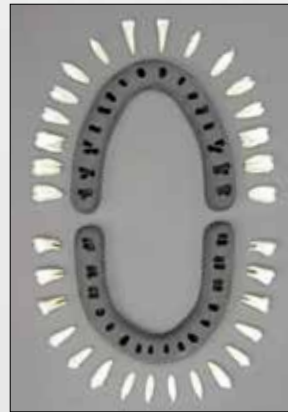
Bone Clones Osteological Reproductions

ADVANCED ANATOMY

13



Set of 5 Hyoids
Includes modern humans and Neanderthal.
KO-111-SET\$165.00



Set of 32 Human Adult Male Teeth
KO-164-SET..\$295.00



Set of 32 Human Adult Female Teeth (All Removeable)
KO-191-018.....\$290.00



Set of 11 Primate Hyoids
KO-110-SET\$385.00

- | | |
|---|---------|
| 1. KO-106 Male Gorilla | \$40.00 |
| 2. KO-105 Female Gorilla | \$40.00 |
| 3. KO-107 Male Orangutan | \$40.00 |
| 4. KO-108 Female Chimpanzee | \$40.00 |
| 5. KO-102 Male Chimpanzee | \$40.00 |
| 6. FM-533 Elderly Human Ossified | \$39.00 |
| 7. SC-092-02 Male Human..... | \$35.00 |
| 8. SC-211-02 Female Human | \$35.00 |
| 9. SC-187-02 Human Child 14-16-month-old. | \$33.00 |
| 10. KO-135 Neanderthal..... | \$45.00 |
| 11. KO-109 Siamang..... | \$40.00 |

Magnetic Osteological Teaching Skull, 22-pieces, color or natural

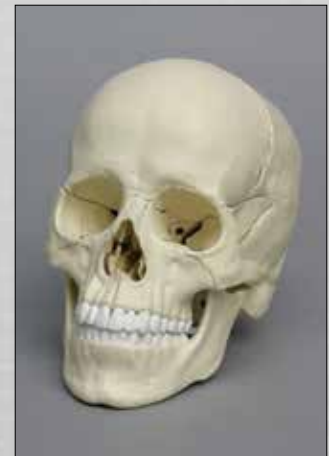


EZ-002 (Color)
\$379.00

Includes an excellent instructional video that identifies each bone by name and clearly demonstrates how the bones fit together.

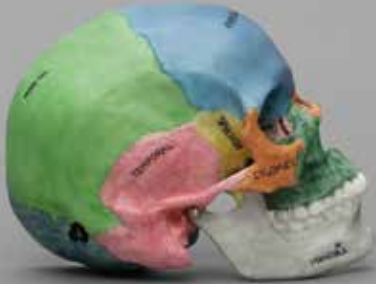





EZ-001 (Natural)
\$349.00



Designed to facilitate identification of bones individually and in context, this affordable, durable plastic skull developed by a European company has built-in magnets and push-fit mating surfaces which click together easily, making this an excellent teaching tool for introductory human anatomy courses. **Imported.**

Advanced Anatomy

		<p>Human Sagittal Cut Half Skull with Brain Hemisphere (Brain and Stand Included) 8" L, 2 1/2" W, 6 1/2" H</p> <p>Color-coded and Labeled BC-267-HP-BR.... \$550.00</p> <p>Natural Bone Color (Not Labeled) BC-267-H-BR..... \$450.00</p>
		<p>Sagittal Cut Half Skull Only (No Brain or Stand)</p> <p>Color-coded and Labeled BC-267-HP \$450.00</p> <p>Natural Bone Color (Not Labeled) BC-267-H \$350.00</p> <p>Stands are available separately for \$38 each</p>

<p>Our 7-part Study Skull facilitates study of the internal sections of the skull. Designed with removable bone groupings: sphenoid, ethmoid, and vomer.</p> <p>Human Female European 7-piece Color-Coded Study Skull BC-224\$750.00</p> <p>Also available in natural bone-color (Not Shown) BC-219\$690.00</p> <p>Display stands are available separately for \$38 each.</p>		
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We thank the following institutions for use of original materials for casting

Academy of Natural Sciences of Philadelphia • Babiarz Institute of Paleontological Studies, Inc. • Black Hills Institute of Geological Research
 Charleston Museum • Harvard Museum of Comparative Zoology • Dr. Ralph Holloway • Maxwell Museum of Anthropology
 Natural History Museum of Los Angeles County • Philadelphia Zoo • San Diego Museum of Man • San Diego Natural History Museum
 San Diego Zoo • Santa Barbara Museum of Natural History • Museum of Osteology • Racoviță Institute of Speleology
 The Estate of Grover Krantz • The National Aquarium • Triebold Paleontology • U.C. Davis Body Donation Program

We are always thankful for the numerous educators and consultants who enthusiastically offer Bone Clones invaluable pertinent advice so that we can make our products the best possible. There is no doubt that their professional interest and feedback make a great contribution to our company.



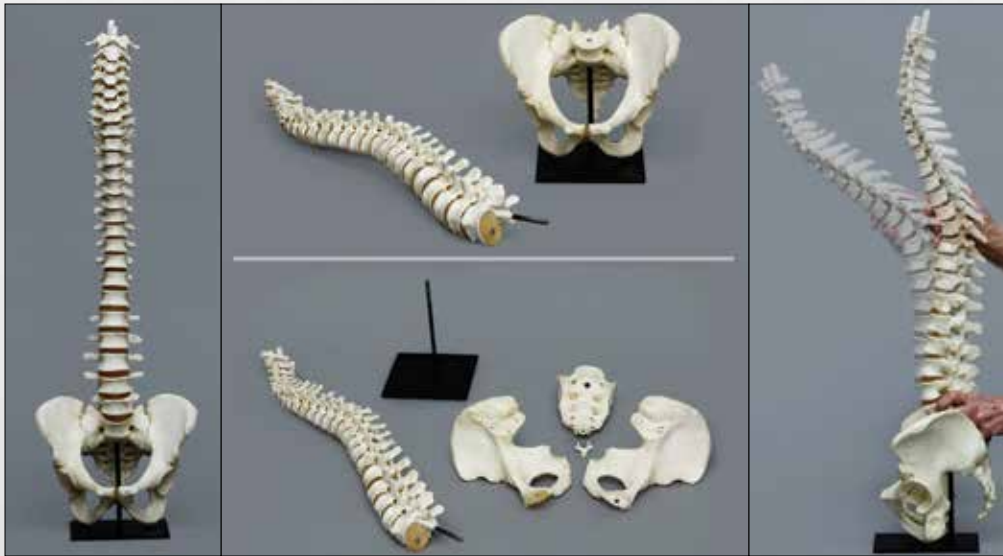
www.boneclones.com



Bone Clones Osteological Reproductions

ADVANCED ANATOMY

15



Human Male Vertebral Column with Magnetic Pelvis

(Stand Included)
10" W, 31" H

KO-315..... \$690.00

Human Male Magnetic Pelvis

(Stand Included)
10" W, 8" H

KO-316..... \$245.00



1.



2.



1. Human Female Vertebral Column with Sacrum & Coccyx, Flexible (Stand Included)

25 1/2" H

KO-321..... \$620.00

2. Human Female Vertebral Column with Pelvis, Flexible (Stand Included)

10 1/2" W, 25 1/2" H

KO-322..... \$690.00

3. Human Shoulder Joint

(scapula, clavicle & partial humerus)

KO-331..... \$145.00

4. Human Hip Joint

(innominate & partial femur)

KO-332..... \$145.00

5. Human Knee Joint

(patella, partial femur, tibia & fibula)

KO-333..... \$129.00

6. Human Flexible Foot Joint

(premium foot, partial tibia & fibula)

KO-334..... \$260.00

7. Human Flexible Hand Joint

(premium hand, partial radius & ulna)

KO-335..... \$260.00

8. Human Elbow Joint

(partial humerus, radius & ulna)

KO-337..... \$109.00



3.



4.



5.



6.



7.



8.



Detachable Pelvis with Flexible Coccyx, Male
Innominates, sacrum and L5 are separable. Construction with bolts makes assembly simple.
10" W, 8" H
KO-505-FLEX.....\$245.00



Human 5-year-old Child Pelvis, Articulated
6" W, 4" H
SC-183-P\$160.00



Human Male Pelvis, Articulated
10 3/4" W, 7" H
FO-103-P\$155.00



Human Female Pelvis, Articulated
9" W, 7" H
KO-193-P\$155.00



Human 5-year-old Child Pelvis, Disarticulated
SC-183-PD\$160.00



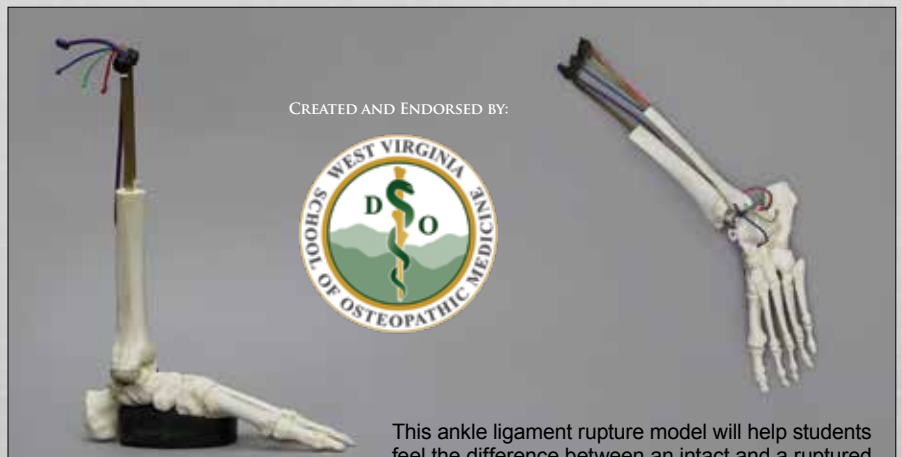
Human Male Pelvis, Disarticulated
FO-103-PD\$198.00



Human Female Pelvis, Disarticulated
KO-193-PD\$198.00



Human Male Adult Pelvis with Femora, Articulated
24" L, 13" W, 6" H
SC-092-PAF-SET ...\$308.00



Ankle Sprain Model
(Base Included)
12 1/2" L, 3 1/4" W, 9 1/2" H
KO-334-AJ \$395.00

This ankle ligament rupture model will help students feel the difference between an intact and a ruptured ligament. Each of the commonly ruptured ligaments of the ankle can be toggled. This model was created in conjunction with Dr. Peter Ward of the West Virginia School of Osteopathic Medicine. Lesson plan written by Dr. Ward included.



Sets of Human Male and Female Skulls (Full Scale 1:1)



Bone Clones offers a broad range of adult human skulls. The collection permits an examination of cranial traits that are suggestive of geographical ancestry and sex. Individuals with ancestral ties to a particular geographic region of the world sometimes possess cranial features indicative of that background. Important traits include palatal shape, maxillary incisor shape, subnasal prognathism, breadth of nasal aperture, shape of eye orbits and zygomatic form. Key features for sex analysis include the size of mastoid process, shape of chin, angle of ramus, shape and contour of forehead, among others. If a skull exhibits a particular collection of traits, a forensic anthropologist may be able to suggest the ancestry and sex of the unidentified remains.

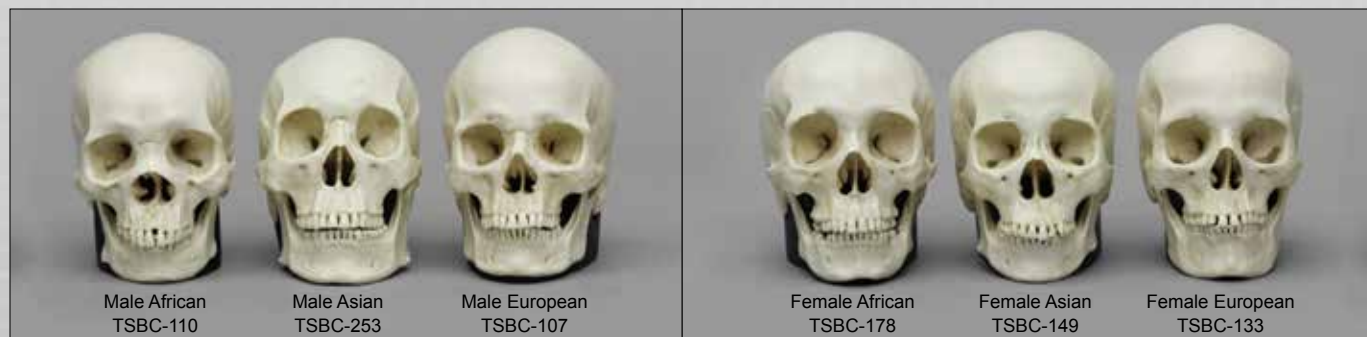
Set of 3 Human Male Skulls
African, Asian, and European
COMP-121-SET\$650.00

Set of 3 Human Female Skulls
African, Asian, and European
COMP-122-SET\$650.00

Set of 6 Male & Female Skulls
Includes all 6 skulls shown above.
COMP-120-SET\$1,295.00

Sets of Human Male and Female Skulls (Half Scale 1:2)

(Half scale versions of the 6 skulls shown above. See p 7 for more information)



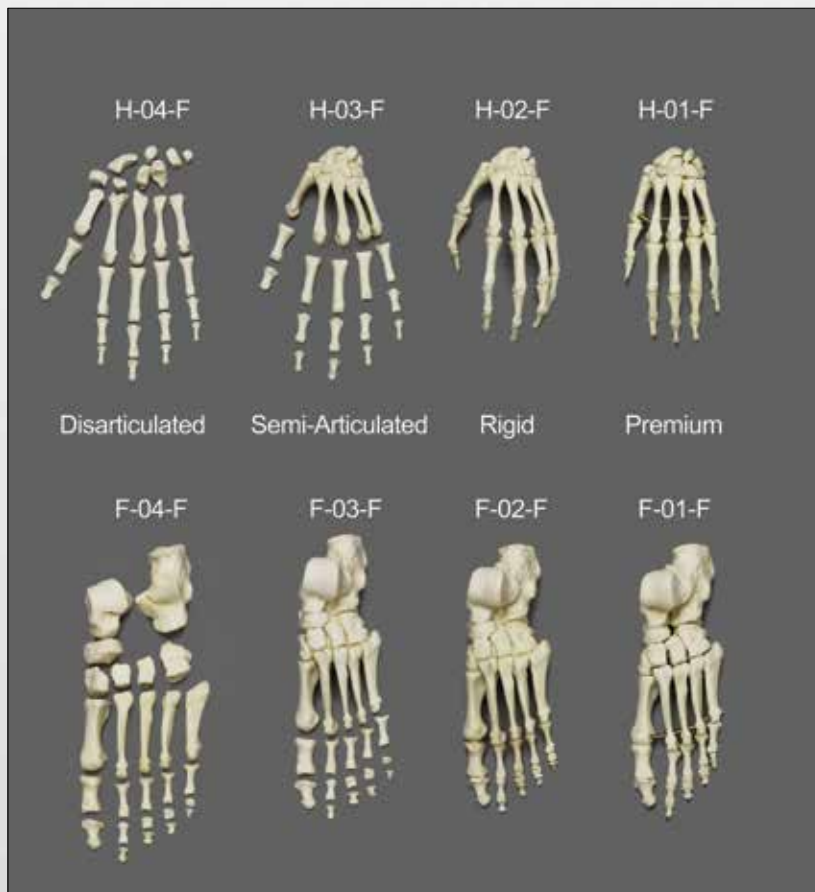
Set of 6 Half Scale Male & Female Skulls
TSCOMP-120\$625.00

Also Available Individually, \$110.00 Each

Set of 3 Half Scale Human Male Skulls
TSCOMP-121\$315.00

Set of 3 Half Scale Human Female Skulls
TSCOMP-122\$315.00

**For more information,
see pg. 7.**



Female (Shown)

H-04-F...\$145.00	H-03-F...\$115.00	H-02-F...\$135.00	H-01-F...\$189.00
F-04-F...\$145.00	F-03-F...\$115.00	F-02-F...\$135.00	F-01-F...\$189.00

Male (Not Shown)

H-04-M...\$145.00	H-03-M...\$115.00	H-02-M...\$135.00	H-01-M...\$189.00
F-04-M...\$145.00	F-03-M...\$115.00	F-02-M...\$135.00	F-01-M...\$189.00

This Beauchene-style hand and foot is designed so that the individual bones slide away from one another when one pulls on the nylon wire. This allows for the study of the articulating surfaces of each of the bones.



Strategically built-in magnets help guide assembly as students learn about the intricate features of the individual bones and their articulations. All but the medial and distal phalanges of the hand and foot are completely separable in this unique ©Magnetic Hand and Foot.



Axial & Appendicular Skeleton

Each bone of the human body, 206 in all, form the structure that protects the complex biological systems of the human body.


The human skeleton is cleverly divided in two major segments; each segment serving crucial functions. The axial skeleton is the center portion. It includes the skull, the hyoid, the vertebral column, ribs, sternum, sacrum and coccyx. This axis provides structure and strength for upright function, and protects the vital organs. Twenty-two cranial bones - sutured in impressive fashion - protect the brain and other delicate organs of the skull. The appendicular skeleton is composed of the clavicles, scapulae, innominates and the upper and lower limbs (appendages). Simply put - arms make it possible to manipulate objects and legs are the key to our mobility.

Each bone of each Bone Clones® skeleton can be purchased individually – and sets of bones or articulated sections (like arms and legs) are also available. A more complete listing of postcranial parts for each of our human skeletons is available on our website and many in this catalog.

Bone Clones® are the premiere osteological reproductions for use in comparative anatomy studies.

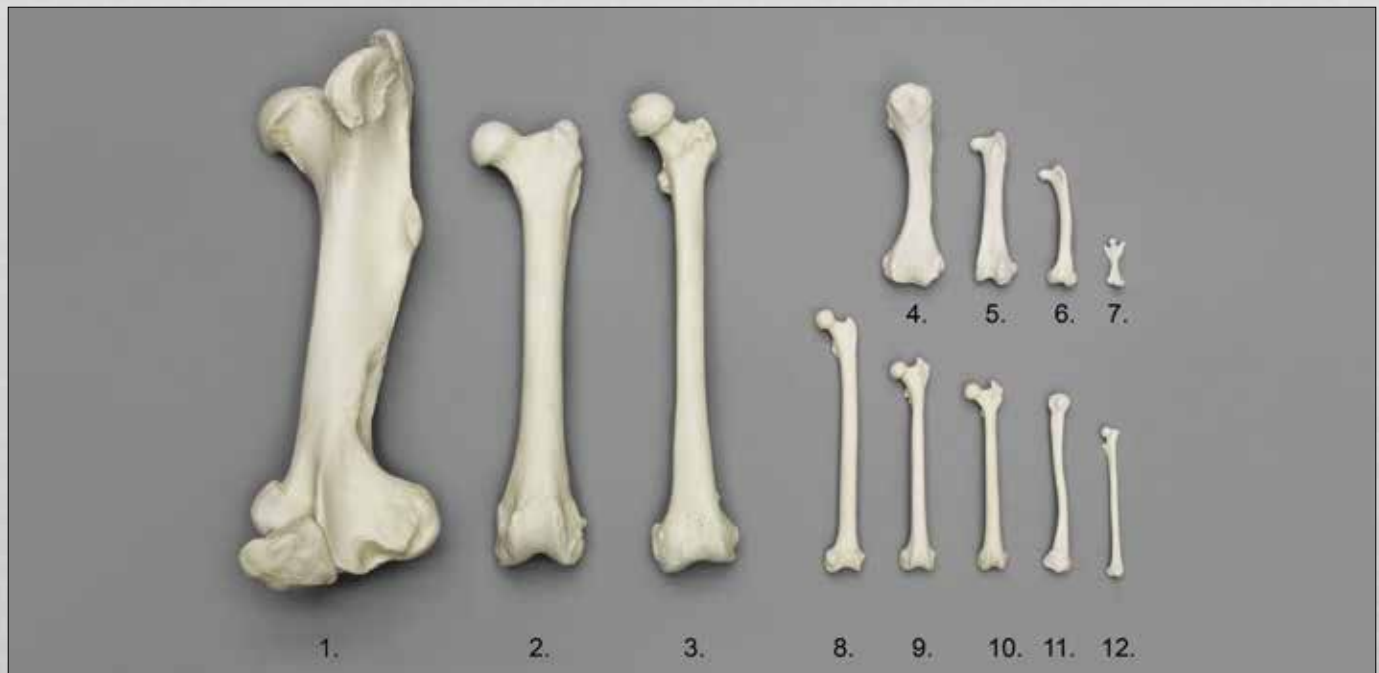


Human Femora

1. Human Adult Male Femur, African FM-401 \$66.00 2. Human Adult Female Femur, African FM-402 \$66.00 3. Human Adult Male Femur, European SCM-192-21 \$62.00 4. Human Adult Female Femur, European SCM-191-21 \$62.00 5. Human Adult Male Femur, Asian SC-092-F \$56.00 6. Human Adult Female Femur, Asian SC-211-F \$56.00	
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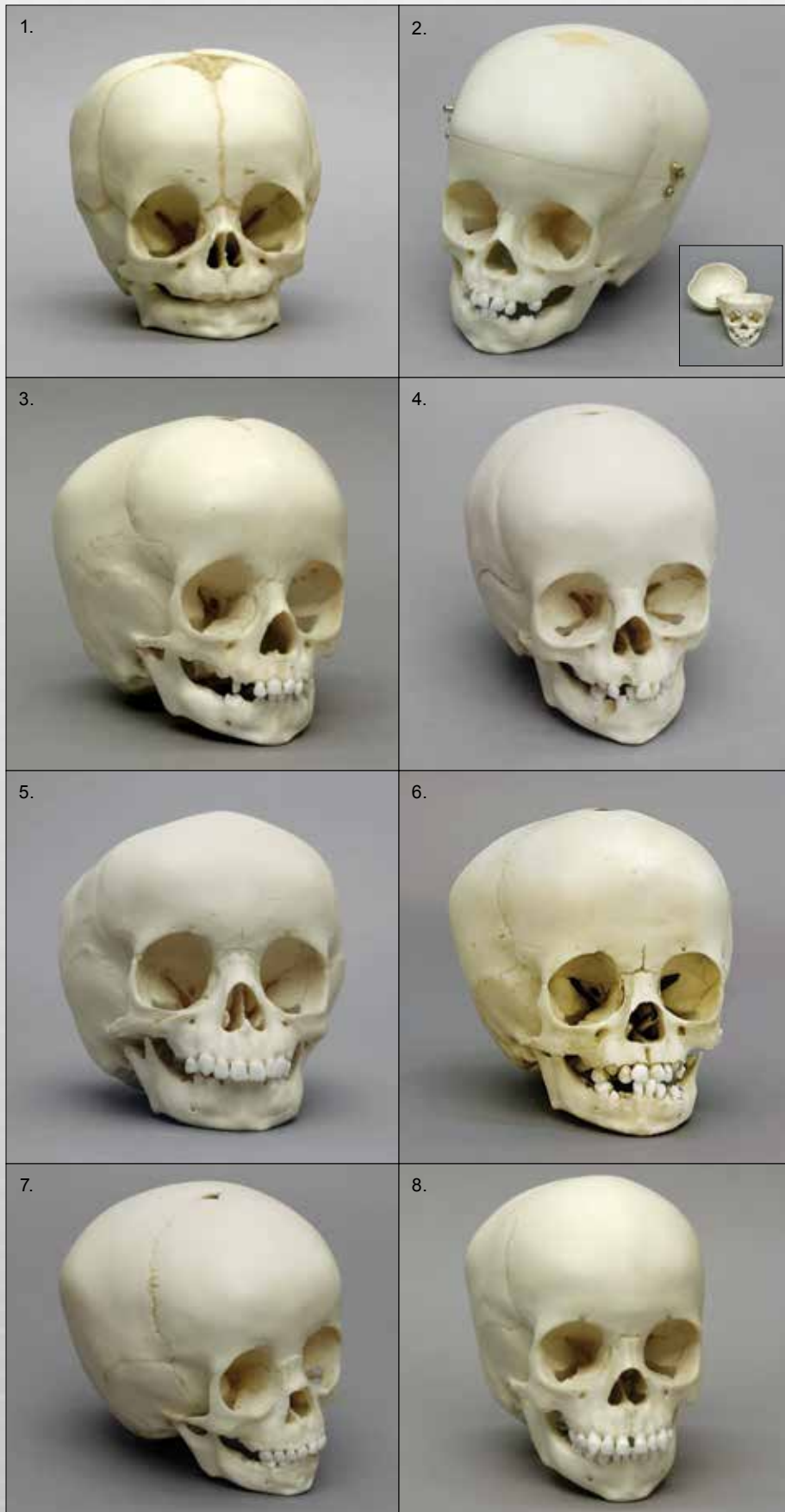
Bone Scaling Femur Set

Courses are being introduced in physics and life science departments specifically geared to providing pre-medical and life science students the type of foundation in biomechanics that will better inform their future careers. Understanding the physics of skeletal anatomy is one of the areas being added to course studies toward this end. Resurgent interest in Galileo's proposition on bone scaling, for example, is being tested and applied in many courses, with the aim of providing a better understanding of the relationship between physics and biology. Toward this aim, this Bone Clones® Bone Scaling Set was developed by Suzanne Amador Kane and Peter Love for use in the Haverford College Physics Department.



Bone Scaling Set of 12 Femora COMP-115.....\$729.00 1. SC-125-21 Horse\$185.00 2. SC-018A-23 Sabertooth Cat\$120.00	3. SC-211-F Human Adult Female\$56.00 4. SC-027-21 Komodo Dragon\$50.00 5. SC-043-21 Harpy Eagle\$40.00 6. SC-165-21 Kiwi\$40.00 7. SC-026-21 Platypus\$40.00	8. SC-265-21 Spider Monkey\$50.00 9. SC-137-21 Rhesus Macaque\$50.00 10. SC-069-21 Vervet Monkey\$50.00 11. SC-094-F Goliath Frog\$29.00 12. SC-049-21 Flying Lemur\$40.00
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About Child Skulls

The preferred method for estimating the age at time of death is dental morphology. The appearance of particular bones, the fusion of others, as well as the length of long bones, are also important indicators of age.

For the sake of simplicity, we refer to these skulls by a specific age. We realize that it is not possible to attribute so particular an age to a skull and that assigning a range may be much more accurate. In fact, such a range has been assigned to each skull in a report prepared by one of our osteological consultants. These reports are available on the website and to all who purchase the associated product.



1. 4-month-old Child

5" L, 4 ½" W, 5" H

BC-256\$225.00

2. 1-year-old Child, Calvarium Cut

5 ¾" L, 4 ½" W, 5 ¼" H

BC-280\$249.00

3. 1-year-old Child

5 ½" L, 4 ½" W, 5" H

BC-274\$225.00

4. 14-month-old Child

6" L, 4 ½" W, 5" H

BC-187\$225.00

5. 15-month-old Child

6" L, 4 ¾" W, 4 ¾" H

BC-111\$225.00

6. 16-month-old Child

5" L, 5" W, 5" H

BC-209\$225.00

7. 18-month-old Child

6" L, 5" W, 5" H

BC-216\$225.00

8. 2-year-old Child

6 ½" L, 4 ½" W, 5 ½" H

BC-275\$225.00

About Deciduous Teeth

This beautifully cast model replica of an entire set of deciduous (juvenile) teeth is from a 4-year-old child. No adult teeth are present. The evaluation of skeletonized remains from children can be challenging, particularly when fragmented or co-mingled with the remains of other children, and sometimes, adults. Having a solid understanding of tooth anatomy and morphologic differences present between adult and child tooth forms can be very important.

Adult male and female teeth available.
See page 14.

**9. 4-year-old Child Deciduous Teeth,
Set of 20**
KO-247-SET\$290.00

10. 4-year-old Child
6" L, 5" W, 6" H
BC-247\$225.00

11. 3-year-old Child
6" L, 5" W, 6" H
BC-210\$225.00

12. 6-year-old Child
6 ½" L, 5" W, 6" H
BC-268\$225.00

13. 8-year-old Child
6 ½" L, 5" W, 6 ½" H
BC-276\$225.00

14. 9-year-old Child
7" L, 5" W, 6 ½" H
BC-277\$225.00

**15. 12-year-old Child,
Dentition Exposed**
6 ½" L, 4 ½" W, 6" H
BC-135\$259.00

16. 13-year-old Child
7" L, 5" W, 7" H
BC-270\$225.00





**5-year-old Child,
Archaic**

(From Skeleton SC-116)
7" L, 4 1/2" W, 6" H
BC-116 \$225.00

**5-year-old Child,
Modern**

(From Skeleton SC-183)
6 1/2" L, 4 3/4" W, 6" H
BC-190 \$225.00

**5-year-old Child,
Mixed Dentition
Exposed**

6 1/2" L, 4 3/4" W, 6" H
BC-189 \$259.00

**5-year-old Child,
Calvarium Cut**

6 1/2" L, 4 3/4" W, 5 3/4" H
BC-188 \$269.00

**5-year-old Child,
Mixed Dentition Exposed,
Calvarium Cut**

6 1/2" L, 5" W, 6" H
BC-183 \$289.00

Human Five-Year-Old Skeletons



SC-183-A Modern



SC-116-A Archaic

Modern

Our 5-year-old skeleton is produced from the skeleton of an average 5-year-old. Age is confirmed by the pattern of tooth eruption and the developmental age of individual bones.

**5-year-old Child Skeleton,
Modern, Articulated**

37" Tall (Stand Included)
SC-183-A..... \$2,050.00

**5-year-old Child Skeleton,
Modern, Disarticulated**

(See pg. 25)
SC-183-D..... \$1,295.00

Archaic

This nearly complete archaic 5-year-old child skeleton is dated at approximately 6,000 years. An excellent comparison to our modern 5-year-old skeleton.

**5-year-old Child Skeleton,
Archaic, Articulated**

32 1/2" Tall (Stand Included)
SC-116-A..... \$2,190.00

**5-year-old Child Skeleton,
Archaic, Disarticulated**

(Not Shown)
SC-116-D..... \$1,150.00

**Comparative Set,
5-year-old Child Skeletons,
Modern and Archaic**

(Stands Included)
COMP-183..... \$3,600.00



Human Archaic and Modern Child Comparative Set

Pelvis, femur and humerus from archaic 5-year-old (Moroccan) and modern 5-year-old child.

COMP-106\$425.00

**1. 5-year-old Child Skeleton, Disarticulated
SC-183-D.....\$1,295.00**

**5-year-old Child Half Skeleton, Disarticulated
(Not Shown)
SC-183-DH.....\$850.00**

**2. 5-year-old Child Flexible Vertebral Column
with Sacrum & Coccyx on Stand
15" H
KO-323\$620.00**

**5-year-old Child Flexible Vertebral Column
with Pelvis on Stand (Not Shown)
15 ½" H
KO-324\$690.00**



An economical alternative to the 5-year-old child skeleton or half skeleton. An exceptionally detailed skull featuring a removable calvarium and spring hinged jaw is included. All paired bones are from the left side. The bones (some with epiphyses and diaphyses separated) may be used for understanding bone formation and growth, noting differences in the child and adult skeletons, and recognizing juvenile bones for forensic purposes. With the diminished availability of natural bone skeletons, Bone Clones® products are increasingly used in advanced anatomical and osteological instruction. Plastic carrying case S-81 included. **For adult bone boxes, see pg. 6.**

**Child Bone Box (Case S-81 Included)
COMP-110-C.....\$728.00**

**Case, Premium
S-91.....\$95.00**



www.boneclones.com

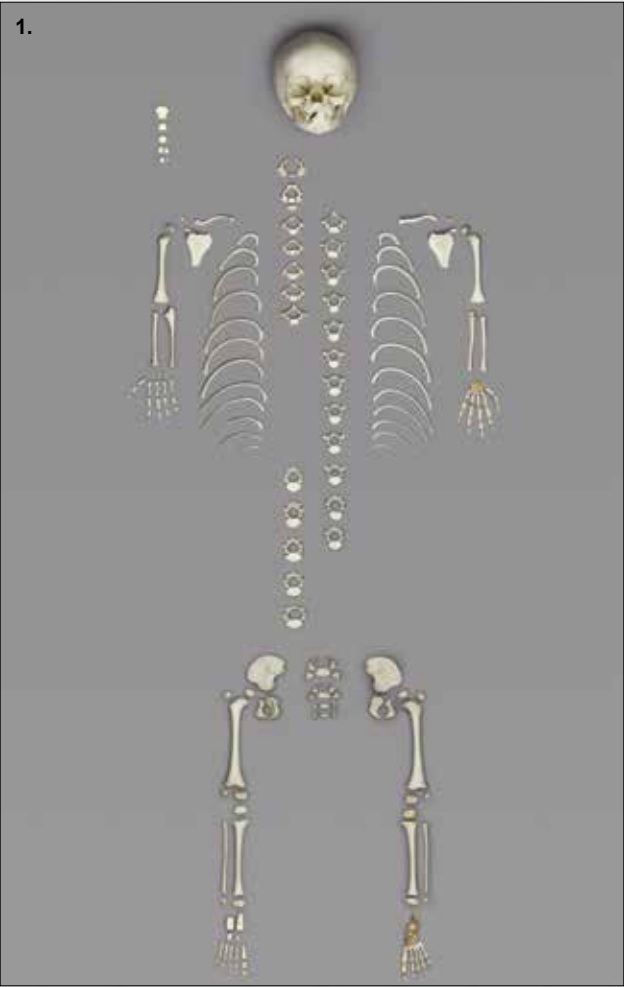


Bone Clones Osteological Reproductions

CHILD POSTCRANIAL

25

Bone Clones produces a series of child skulls and skeletons that provides excellent examples of ages ranging from the age of 4 months through adolescence. We produce specimens with visible underlying dentition, appropriate for all students learning about tooth development and eruption patterns, as well as with the calvarium cut, enabling the study of the endocranium. In addition to the skulls, we offer the skeleton of a 14 to 16-month-old, a 5-year-old (both modern and archaic), and an adolescent. All bones are available individually. See boneclones.com for details.



**1. 14 to 16-month-old
Child Skeleton,
Disarticulated**
SC-187-D.....\$1,295.00

**2. 14 to 16-month-old
Child Half Skeleton,
Disarticulated**
SC-187-DH.....\$850.00

**3. 14 to 16-month-old
Child Skeleton,
Articulated, Rigid**
(Stand Included)
25 1/2" Tall.
SC-187-A.....\$2,050.00





BC-281
40 weeks
Calvarium Cut

BC-227
35 weeks

BC-195
29 weeks

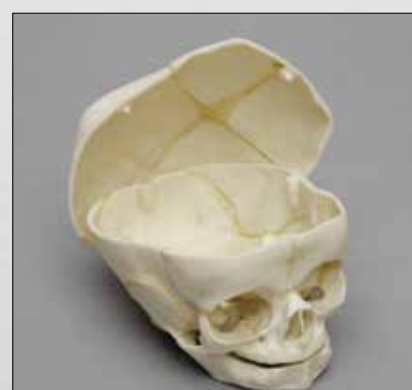
BC-194
20 weeks

Human Fetal Skull Set of 4 with Lesson Plan

(Base Included)

BC-281-Set\$498.00

This human fetal skull set of 4 with lesson plan will feature skulls at embryologically and osteologically critical stages of development where skull and brain formation are intricately intertwined. The skulls included in this set are a 20 week, 29 week, 35 week and 40 week with a calvarium cut. A collaboration between Bone Clones and Dr. Cara Davies, it includes a 2 part comprehensive lesson plan.



**Fetal Skull, 40 weeks,
Calvarium Cut**
4" L , 3 1/2" W, 3 1/2" H
BC-281\$195.00

Postcranial Fetal Bones

KO-340-CSET Set of 53 Postcranial Fetal bones (All 8 Sets) \$608.00

Cast from real bones, these 53 postcranial skeletal elements are excellent representations of human osteology during fetal development. For more information, please see our website.

Fetal, 4 months Set of 3
KO-328-SET\$35.00

Fetal, 7 months Set of 7
KO-374-SET\$95.00

Fetal, 4 1/2 months Set of 3
KO-325-SET\$35.00

Fetal, 8 months Set of 8
KO-366-SET\$95.00

Fetal, 5 months Set of 8
KO-389-SET\$95.00

Fetal, 9 months Set of 8
KO-358-SET\$95.00

Fetal, 6 months Set of 8
KO-381-SET\$95.00

Fetal, Full Term Set of 8
KO-350-SET\$95.00



www.boneclones.com



Bone Clones Osteological Reproductions

**FETAL SKULLS AND
POSTCRANIAL**

27

Human Fetal Skulls

Bone Clones offers a range of fetal skulls, from 13 week fetus to a full term fetus. This would be a valuable addition to any program studying skeletal fetal development.

**All Skulls Available
Individually, \$80.00 Each**

Human Fetal Skull Set of 3 BC-182-Set\$225.00



**BC-180
31 weeks**



**BC-181
32 weeks**



**BC-182
40 weeks**

Human Fetal Skull Set of 5 (Base Not Included)

BC-194-Set\$375.00

Base

S-BC-194-Set.....\$65.00



**BC-182
40 weeks**

**BC-181
32 weeks**

**BC-180
31 weeks**

**BC-195
29 weeks**

**BC-194
20 weeks**

**BC-228
40 ½ weeks**

**BC-182
40 weeks**

**BC-227
35 weeks**

**BC-226
34 weeks**

**BC-181
32 weeks**

**BC-180
31 weeks**



**BC-225
30 weeks**

**BC-195
29 weeks**

**BC-220
21 ½ weeks**

**BC-194
20 weeks**

**BC-218
17 weeks**

**BC-215
13 weeks**

Bone Clones offers the world's only fetal osteology reference set to span the intrauterine growth period from 13 weeks to full term. This set of fetal elements of known age permits detailed study of human skeletal morphology at all stages of development. The skulls and postcranial sets of bones can easily be utilized as reference material by laboratories that study fetal remains; alternatively, they can be evaluated by students as part of their hands-on training in human fetal osteology.

Human Fetal Skull Set of 12 (Base Not Included)

BC-228-Set\$900.00

Base

S-BC-228-Set.....\$85.00

This fetal skeleton (designed to flex at the joints and neck) will enable educators to physically demonstrate the impact gravity has on the underdeveloped/immature human skeleton. Educators can show positional deformation, thereby illustrating the impact of poor supportive positioning and the potential for associated lifelong morbidity. This model's anatomic accuracy provides the visual and functional evidence necessary to positively impact clinical practice in the neonatal intensive care unit.

Human Fetal Skeleton, 32 weeks, Flexible

(Stand Included)

16" Tall

SC-226-A.....\$1,195.00



**Human Fetal Full Term Cranial Set:
Sphenoid, Ethmoid & Temporal
Bones in Plastic Case**
KO-186-020-SET.....\$345.00



**1. Fetal Skeleton,
Articulated, Rigid**

An excellently detailed 32-week-old human fetal skeleton.

(Stand Included)

15 1/2" Tall.

SC-181-A.....\$669.00

**2. Fetal Skeleton, Full
Term, Articulated**

This excellent skeleton of a full term fetus is remarkable for its completeness. The skull is available with or without the calvarium cut. We thank the Maxwell Museum of Anthropology for the opportunity to cast this skeleton.

(Stand Included)

16 1/2" Tall.

SCM-186-A.....\$1,950.00

**3. Fetal Skeleton,
Full Term,
Disarticulated**

SCM-186-D.....\$949.00



www.boneclones.com



Bone Clones Osteological Reproductions

FETAL SKELETONS

29



Leishmaniasis Cranium

Transmitted by sandflies infected with a protozoa, this disease results in destructive lesions of the face and nose.

BCH-807..... \$309.00



Syphilis Cranium

Affected by syphilis, a bacterial infectious disease, this cranium shows lytic lesions and porotic hyperostosis.

BCH-808.....\$309.00



Meningioma Cranium

Massive development of spongy bone involving nearly all of the frontal squama and extending onto the parietals.

BCH-809.....\$309.00



Artificial Cranial Deformation Cranium

Pronounced flattening with well-developed external occipital protuberance.

BCH-810..... \$309.00



Healed Frontal Bone Fracture Cranium

Healed blunt force fracture involving left browridge and linear depression above glabella.

BCH-811.....\$309.00



Healed Parietal Bone Fracture Cranium

Area around fracture is raised due to new bone growth. Exhibits frontal bone fracture and temporomandibular osteoarthritis.

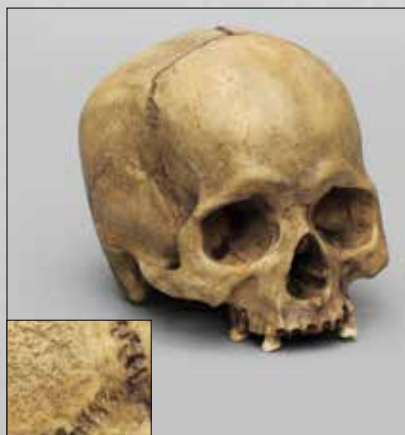
BCH-812.....\$309.00



Button Osteoma Cranium

Benign tumor on frontal bone in midline above the glabella.

BCH-814..... \$309.00



Porotic Hyperostosis Cranium

Pathological condition resulting in porous areas on both parietals and occipital bone.

BCH-815.....\$309.00



Cradle Board Cranium

Small skull with a flat occipital profile and an asymmetric parieto-occipital bulge.

BC-222\$295.00

We are grateful to the San Diego Museum of Man for allowing us to select specimens for reproduction and granting us exclusive casting rights to these pieces from their valuable Hrdlička Paleopathology, Stanford-Meyer Osteopathology, and Boring Collections. A portion of sales goes to further their work.

The Hrdlička Paleopathology Collection: This collection consists of approximately 1000 human bone specimens showing disease, trauma, and cranial surgery. The collection was assembled by Aleš Hrdlička of the Smithsonian Institution for the 1915 Panama-California Exposition. Most of the specimens were collected in Peru in 1913.



Mid-facial Trauma Cranium

Healed fractures of the face, and fresh depressed fractures at lambda and on both parietals.

BCH-816.....\$309.00



Sling Shot Wound Cranium

Circular depressed fracture thought to have been caused by a stone hurled by a sling.

BCH-817.....\$309.00



Sharp-force Trauma Cranium

Caused by a sharp rectangular object, resulting in several puncture wounds. Calvarium cut held in place by magnets.

BCH-818.....\$320.00



Incomplete Trephination Cranium

Caused by a drilling tool, resulting in a series of circular holes.

BCH-819.....\$309.00



Partial Cranium with Cribra Orbitalia
Pathological condition manifesting as porous areas on the roofs of the orbitals.
BCH-813.....\$279.00



Mandible with Dental Abscessing
This mandible displays abscesses (holes) caused by a dental infection.
KOH-450.....\$90.00



Auditory Exostosis, Temporal Bone
Also known as surfer's ear, this benign lesion may be a response to cold water immersion.
KOH-445.....\$170.00



Left Humerus with Healed Distal Fracture
Exhibits angulation and override (fractured bone parts overlap each other). Osteoarthritis also present on distal joint surfaces.
KOH-447\$90.00



Left Humerus with Amputation
Amputated at the midshaft and showing complete healing.
KOH-449\$75.00



Left Femur with Healed Comminuted Fracture
Exhibits considerable displacement and irregular union, resulting in numerous large openings.
KOH-446\$129.00



Left Tibia with Squatting Facet
A smooth, flat depression on the distal end of the tibia caused by long periods of squatting.
KOH-448\$90.00



Ankylosing Spondylitis
Displaying compression fracture of T9 and fusion of all 8 verts, caused by progressive inflammatory disease.
KOH-441\$260.00



Tuberculosis, Innominate and Sacrum
Displaying numerous circular lytic lesions with little new bone development involving the sacro-iliac region.
KOH-442\$265.00

Stanford-Meyer Osteopathology Collection: This collection was a gift from Stanford University in 1981. It consists of approximately 3500 human bone specimens from 1500 dissecting room cadavers. It was used from the early 1900s to 1960 by the Anatomy Department of Stanford University to train medical students in bone diseases and disorders.



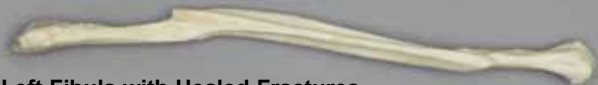
Tibia Fracture with Sagittal Cut
KO-445..... \$120.00



Left Tibia with Healed Fracture
KO-274.....\$90.00



Tibia with Bone Graft
KO-446..... \$110.00



Left Fibula with Healed Fractures
KO-277.....\$90.00



Osteosarcoma, Left Femur
KO-444..... \$150.00



Left Ulna with Healed Parry Fracture
KO-271.....\$85.00



Left Clavicle with Healed Double Fracture
KO-270.....\$85.00



Patella with Osteoarthritis
KO-273.....\$28.00



Rickets: Femur, Tibia, Fibula
KO-443.....\$220.00



Partial Left Femur with Healed Hip Fracture
KO-272.....\$129.00



Left Tibia and Fibula, Amputation
KO-275.....\$129.00



Left Tibia and Fibula, Amputation with Fusion
KO-276.....\$129.00

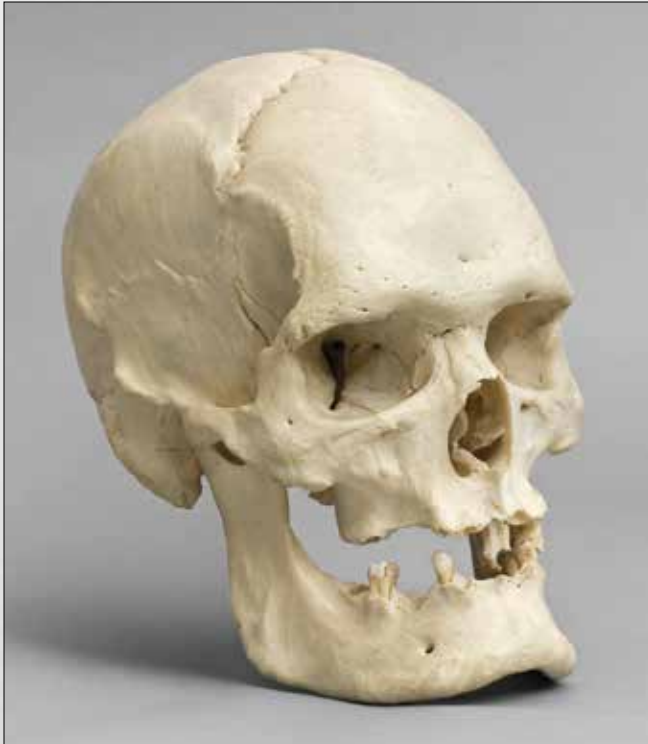


Left Scapula with Healed Fracture
KO-269.....\$90.00



Sacrum with Spina Bifida Occulta
KO-268.....\$129.00

Acromegaly and Hydrocephalic Skulls

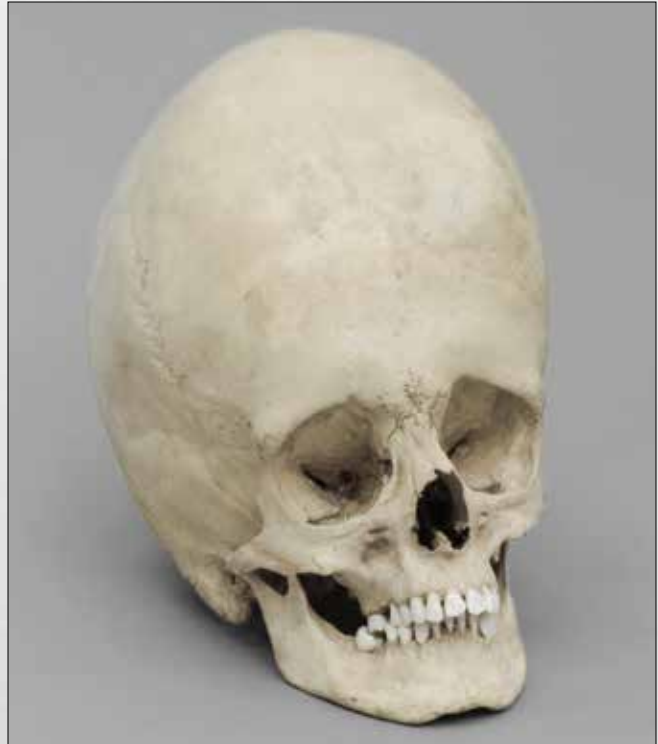


Acromegaly Skull

This skull is from a 20-year-old male who suffered from acromegaly. Acromegaly is an endocrine disorder caused by hypersecretion of growth hormone from the pituitary gland. This condition causes bone deposition leading to bone enlargement, increased thickness in the skull vault, prominent insertion points for tendons and ligaments, and extreme height.

This is a photograph of the real specimen and the Bone Clones® cast will be available soon. Please note the Bone Clones® cast may vary in color from this photograph. Please visit www.boneclones.com for pricing and further information.

BC-341



Hydrocephalic Skull

This incredible example of a Hydrocephalic skull is from a 22-year-old male. Hydrocephaly is a disorder of the central nervous system where the absorption rate of cerebral spinal fluid (CSF) is disrupted by a specific disease syndrome, a genetically induced malformation or a unique clinical condition. The usual clinical presentation of this condition is the enlargement and elongation of the bones of the brain case in infancy and childhood.

This photograph shows the real specimen, and the Bone Clones® cast will be available soon. Please note the Bone Clones® cast may vary in color from this photograph. Please visit www.boneclones.com for pricing and further information.

BC-340



Plastic Carrying Case

Corrugated plastic skull case which requires easy four-flap assembly and handle insertion. Functional storage and carrying case at an economical price.

10 ½" L, 7 ½" W, 8 ½" D
S-81\$29.00



Storage Bag for Skulls

Soft gray flannel with braided cord and silkscreened Bone Clones logo. Fits all human, fossil hominid, and primate skulls, as well as select skeletal parts.

18" L x 12" W
BA-100\$7.50

Bone Clones® Quality



Whether for exhibit or for detailed study of human or animal anatomy of extinct or extant species, Bone Clones® are the best osteological reproductions available. Cast from diverse originals licensed to us from museums and private collections, our product selection encompasses many fields of study: from anatomy to zoology—with anthropology, archaeology, biology, forensics, paleontology, and primatology in between—you will only find this incomparable product line at Bone Clones, Inc.

Another important component to our success is our dedicated staff: from the informed ideas that go into developing new products, to creating the molds, manufacturing the casts, to quality control and careful packaging, many individuals are dedicated to achieving outstanding results for our product, and continuing with equal dedication once the products are made, are the fine artists on board who create and manage our website and the creation of our catalogs. Lastly, our Customer Service staff is unequalled in their commitment to our customers by email, phone and in-person at conferences.

Bone Clones® on Exhibit

The variety of Bone Clones® replicas, their fidelity, and preservation of gross and fine detail has inspired museum directors and curators worldwide to create exhibits not previously possible. Bone Clones® can be found on display in the following institutions, *to name a few*:

Max-Planck Institut • Field Museum • AMNH (*New York*) • Apenheul Primate Park (*Netherlands*) • Amici del Museo di Scienze Naturali • Musee De La Civilisation (*Canada*) • Museo del Desierto (*Mexico*) • Museo Nacional de Ciencias (*Spain*) • National Museums Liverpool • Natural History Museum Vienna • Natural History Museum, London • Yale Peabody Museum of Natural History • Ashoro Museum of Paleontology • Croatian Natural History Museum • Hayashibara Museum of Natural Sciences • Maxwell Museum • Museum of Man • New York Hall of Science • California Academy of Sciences • Harvard Museum of Comparative Zoology • NHMLA (*Los Angeles*) • Royal Tyrrell Museum • Smithsonian Institution • Museum d'Histoire Naturelle (*France*) • Museo de la Plata (*Argentina*) • National History Museum (*Denmark*) • Peabody Museum of Archaeology • State Museum of Archaeology (*Germany*) • Australian Museum • Moravske Zemske Muzeum (*Czech Republic*) • Houston Museum of Natural Science • SBMNH (*Santa Barbara*) • Shaoxing Science & Technology Museum (*China*)



Shaoxing Science & Technology Museum (*China*)



Apenheul Primate Park (*Netherlands*)



www.boneclones.com



Bone Clones Osteological Reproductions

QUALITY ON EXHIBIT

35

Female African-American Postcranial



**Pelvis with Pits of
Parturition**
KO-178-P ...\$155.00



**Pelvis with Pits of
Parturition, Disarticulated**
KO-178-PD\$198.00

Tibia
14 1/2"
KO-178-T...\$42.00

Fibula
14 3/4"
KO-178-FA...\$46.00

Radius
9 1/4"
KO-178-R ..\$42.00

Ulna
9 3/4"
KO-178-U ..\$42.00

Humerus
12 1/2"
KO-178-H ..\$58.00



UC Davis Pathology and Trauma

Bone Clones wishes to thank the UC Davis Body Donation Program for the opportunity to cast these specimens.

**Specimens from UC Davis will be sold only to
recognized educational
institutions and professionals associated
with educational institutions.**
Visit www.boneclones.com for additional pictures.



Human Female Achondroplasia Dwarf Skeleton, Articulated
40 1/2" tall. (Stand Included)
SCD-279-A \$6,800.00

Human Female Achondroplasia Dwarf Skeleton, Disarticulated
SCD-279-D \$5,800.00

Human Female Achondroplasia Dwarf Skull
7 1/2" L, 6" W, 7 1/2" H
BCD-279..... \$380.00

Human Female Achondroplasia Dwarf Femur
10" L
SCD-279-21..... \$195.00



Human Male Skull, 22 Caliber Bullet Wound, Calvarium Cut
9" L, 6" W, 7" H
BCD-323.....\$325.00

Comparative Economy Sets

1. Economy Set Male Asian

Skull BC-253,
pelvis, humerus, femur.
COMP-113.....\$345.00



2. Economy Set Male Asian

Skull BC-016,
pelvis, humerus, femur.
COMP-101.....\$345.00



3. Economy Set Female Asian

Skull, pelvis, humerus, femur.
COMP-102.....\$345.00



4. Economy Set Child

Skull, pelvis, humerus, femur.
COMP-103.....\$329.00



5. Economy Set Female African-American

Skull, pelvis, humerus, tibia.
COMP-109.....\$345.00



6. Economy Set Female African-American

Skull, pelvis, humerus, femur.
COMP-112.....\$345.00



7. Economy Set Male European

Skull, pelvis, humerus, femur.
COMP-M-405-SET\$355.00



8. Economy Set Female European

Skull, pelvis, humerus, femur.
COMP-M-406-SET\$355.00



Carrying Case for Skeletal Material (Corrugated Plastic)

17 1/2" L, 12" W, 10" D
S-82.....\$59.00



Forensic Osteology

Osteology plays a significant role in identifying remains encountered at crime scenes and war-devastated regions. Forensic anthropologists are able to interpret information found on bones to infer cause of death, estimate age, and suggest sex and ancestry. Evidence of trauma and/or illness provides valuable clues. Bone Clones has been able to use its expertise in reproducing the finest details of skeletonized material to create Forensicclones®, a collection of skulls and skeletons that are specifically suited for this area of study. These replicas, cast from original natural bone skulls and skeletons, can help in understanding the important osteological details and features examined during a forensic investigation. **See pg. 38**





Forensic Osteology Set

This valuable set was created to introduce the student to human osteology. Contains:

- Female European Skull (BCM-891)
- Male African Skull (BC-110)
- Gunshot-wound Skull (BC-152)
- Human Bullet Rib (FO-101)
- Male Asian Comparative Set (COMP-113)
- Female African-American Set (COMP-112)

COMP-114.....\$1,408.00

Also Includes:

- 10-page lesson plan, "Building the Biological Profile"
- Human Skeletal Features handout

(Forensics Primary Set, Comp-104 also available. Visit boneclones.com for more information.)



Spanish Conquistador Skull (1530 AD)

Spanish soldier's skull from the 16th century, as found in Chama, New Mexico, with a "broad ax" deeply planted in the cranium.

10 1/2" L, 5 1/2" W, 9 1/2" H
BC-199\$385.00



Forensic Black Bear Paw

Without claws, an ideal comparison to the human hand for forensics courses.

7" L
FO-075\$100.00



Human Bullet Rib

Rib with embedded bullet from a .32 caliber gun. New bone growth shows that the wound was nonfatal.

8" L
FO-101\$40.00



Healed Blunt Force Trauma Skull

Comminuted fracture of the left cheek healed without effective medical treatment.

8" L, 5 1/2" W, 7" H
BC-303 \$295.00



Comparative Human Maxilla, Set of 3

African, Asian and European.
COMP-105..... \$155.00



Roman Gladiator Skull
(72 AD to 472 AD)
8" L, 6" W, 8" H
BC-198 \$385.00



Masculinized Skull
European female. 68-year-old
7 1/2" L, 5 1/2" W, 7 1/2" H
BC-197 \$295.00



Gunshot-wound Skull
European male
7 1/2" L, 5 1/2" W, 7" H
BC-152 \$310.00



Human Male Skull
European, elderly
8" L, 5 1/2" W, 7" H
BC-204 \$295.00



Shotgun-wound Skull
The skull is that of a woman in her early 20's. The cranium was penetrated by two rounds from a .410 shotgun fired at close-range.
8" L, 5" W, 7" H
BC-196 \$310.00



Human Male Cranium, Hammer Blows
Smooth, rounded edges of depressed wounds are indicative of healing, suggesting a substantial period of survival.
8 1/2" L, 5 1/2" W, 6" H
BC-217 \$310.00



Machete-wound Skull
Machete strikes caused all of the skull fractures.
8 1/2" L, 5" W, 6 1/2" H
BC-185 \$385.00



Multiple Gunshot-wound Skull
Human female skull with three small gunshot wounds making entry through occipital.
8" L, 5 1/2" W, 8" H
BC-202 \$340.00



Scaphocephalic Skull
Premature closure of the sagittal suture, causing an abnormally long and narrow skull.
8 1/2" L, 5" W, 8" H
BC-193 \$309.00



The Maxwell Collection

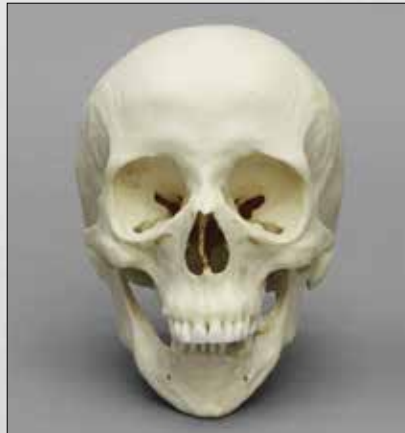
The Maxwell Museum of Anthropology's Laboratory of Human Osteology, at the University of New Mexico, specializes in numerous facets of physical anthropology. The laboratory serves as a repository of human remains and includes prehistoric, historic, documented, and forensic remains. The skeletal remains in the Maxwell Museum's Documented Skeletal Collection are obtained by donation, either by the individual before death, or by the family of a deceased loved one. Information on the sex, age, population affinity, and cause of death is available for the majority of these individuals.

Bone Clones is grateful to the Maxwell Museum for allowing us to select specimens for reproduction from their valuable collection and granting us exclusive casting rights to these pieces. A portion of the sales goes to further their work.

Please note that specimens from the Maxwell Collection can only be sold to recognized educational institutions and professionals associated with educational institutions.



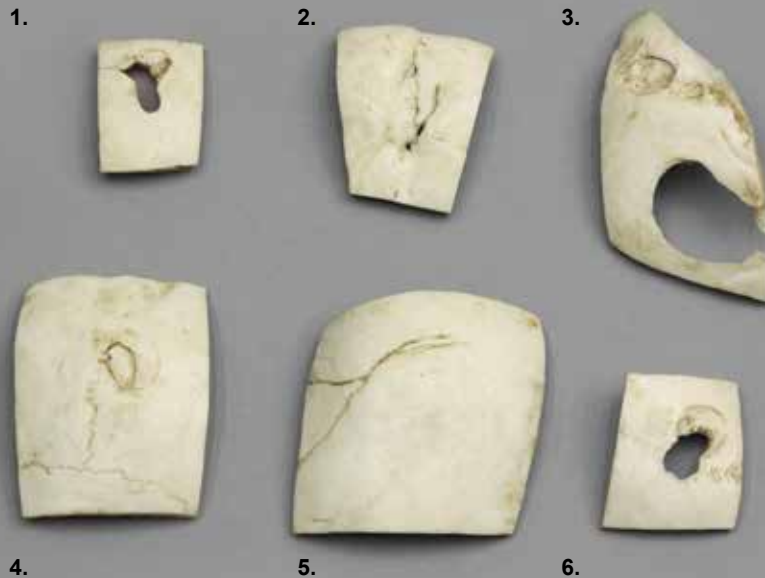
**Blunt Force Trauma
Cranium, Eye Orbit**
7 1/2" L, 5 1/2" W, 6" H
BCM-805.....\$290.00



Human Skull, Down Syndrome
66-year-old Hispanic female.
7" L, 5" W, 7" H
BCM-801.....\$295.00



Gunshot Trauma Cranium
Classic entrance and exit wounds.
7" L, 5 1/2" W, 6" H
BCM-806.....\$290.00



Skull Fracture Set of Six Fragments

From six individuals and different areas of the skull, illustrates different types of blunt force traumatic injuries, wounds from assorted weapons (hammers, guns), and variable stages of healing (from none at all to well-healed fractures).

1. Bursting Fracture
2. Depressed Fracture
3. Circular Fracture
4. Crushing Injury
5. Shearing Fracture
6. Keyhole Gunshot

KOM-804-SET...\$189.00



Detailed
information on
each fragment
is available on
our website.

Human Female, Blunt Force Trauma
(American Indian female who died when hit by an 18-wheel truck.)



Blunt Force Trauma Skull
This skull shows perimortem fractures and hyperostosis.
BCM-803\$279.00



Innominate and Femur Set
The innominate, one of the strongest bones in the body, has clean breaks. Also, the fracture of the femur includes a fragment broken from the posterior shaft, a clear indication that the fracturing force came from the front.
Set Includes FM-540 and FM-541.
FM-540-SET\$170.00

Innominate (L)
7 3/4" L, 5 3/4" W
FM-540...\$59.00

Femur (R)
Three segments.
FM-541...\$111.00



Partial Skull with Shotgun Pellets Embedded
Skull of a 39-year-old European American female shows damage from a shotgun wound, with pellets embedded in the bone.
7" L, 5" W, 4" H
BCM-802\$259.00



Male Skull for Facial Reconstruction
Comes with 8 photographs of individual during lifetime, allowing for comparison to facial approximation based on the skull.
8" L, 6" W, 7 1/2" H
BCM-804\$450.00



Calvarium with Hyperostosis Frontalis Interna
6 3/4" L, 6" W, 3" H
FM-601 \$75.00

**Stands are available
for select products.
Visit boneclones.com for details.**



**Human Male,
65-year-old, Heart Disease**

From a 65-year-old European American male who died of heart disease (as a complication of alcoholism). There is fusion of the 5th lumbar vertebra and the sacrum, a relatively common condition. Set includes FM-528 through FM-530.

FM-528-SET..... \$210.00



**Manubrium with Fused
Ossified Cartilage**
2" L, 3 3/4" W
FM-528\$62.00



Sacrum and L-5 Fused
5 1/2" L, 4 1/4" W, 3" H
FM-529\$120.00



L-4 Vertebra
1 3/4" L, 1 1/4" W
FM-530\$39.00

**Human Male,
68-year-old Hyperostosis**

These remains come from a 68-year-old European American male who died of heart disease. The fused vertebrae and ribs provide an excellent example of diffuse idiopathic skeletal hyperostosis (DISH). Set includes FM-531 through FM-533.

FM-531-SET \$210.00



Thyroid Ossified
1 3/4" L, 2" W
FM-531 \$45.00



C-4 through T-3 and 2 Ribs Fused
6" L, 6 1/4" W, 5 1/4" H
FM-532 \$134.00



Hyoid Ossified
1 1/2" W
FM-533 \$39.00

**Human Female, Cervical Ribs
with Vertebra and 2 Humeri**



Cervical Ribs with Vertebra and 2 Humeri

Both humeri show evidence of head degeneration. Bilateral supernumerary (extra) cervical ribs are attached to the seventh cervical vertebra (above the normal first ribs). We have attached one cervical rib, but the other remains unattached. These associated cervical ribs, the C7 vertebra, and both humeri are examples of congenital abnormalities. Many of these defects can be compatible with life and maturity. In other words, they are not lethal, as evidenced here, as this set of pathological specimens is known to be from an older female.

KOM-801-SET\$169.00

Human 13-year-old Partial Skeleton

Growth development study and research set. These bones are from a 13-year-old, 5' 3" and 120 lbs., European American male. All epiphyses are included. Individual parts available separately. Includes FM-509 through FM-527.

FM-509-SET..... \$1,169.00



See our website
for postcranial
list and more
information.

Human Male European, 62-year-old

This individual's death was due to alcoholism. There are poorly aligned healed fractures of the right and left tibiae and fibulae and left femur. The left femur head is separate from the shaft at the neck and pseudoarthrosis (false joint) has formed at the site.

FM-501-SET.....\$615.00



See our website
for postcranial
list and more
information.

Human Female, 39-year-old

European American female, who died due to a shotgun wound to the head. The pelvis is a typical one for a European American woman of this age. She had at least one child and may have been pregnant at the time of her death.

FM-534-SET \$320.00



See our website for
postcranial list and
more information.



www.boneclones.com



Bone Clones Osteological Reproductions

**PATHOLOGY AND TRAUMA
THE MAXWELL COLLECTION**

43

Trephined & Elongated Skulls



**Human Female,
Trephined Cranium**
7 3/4" L, 5 1/4" W, 5 1/2" H
BC-115\$240.00



**Human Female Skull,
Cranial Binding**
8" L, 5" W, 9" H
BC-200\$260.00



**Human Male Skull,
Trephined and Cranial Binding**
8 1/2" L, 5" W, 8" H
BC-201\$260.00



**Human Sternum
with Anomaly**
7 1/2" L, 3" W
FO-114.....\$65.00

Stands Sold Separately. \$38.00 Each. Please visit www.boneclones.com for more details.



Human Child Vertebrae, Ribs and Sacrum, Scoliosis
An excellent example of extreme childhood scoliosis. Vertebral column has ribs attached. The sacrum is included and detached.
12 1/2" L
FO-113.....\$479.00

Surgically-altered Human Radius, Ulna, Innominate

The badly fractured radius and ulna had been repaired with bone grafts from the anterior iliac crest—an important finding for forensic pathologists and anthropologists.

FO-102.....\$280.00



Human Femoric Hip Fracture, Remote

In this example of an impacted hip fracture, the anatomical neck of the femur is wedged into the cancellous bone of the proximal femur.

6 1/2" L
FO-109.....\$89.00



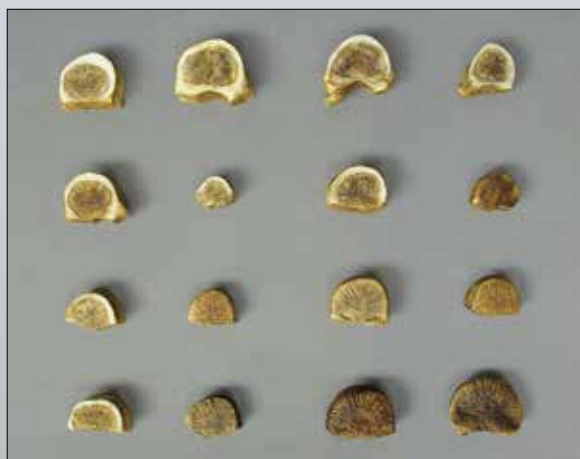
Human Femur, Remote Amputation

The distal end of the femur is remodeled in response to change in function after amputation. Compression necrosis is apparent at the distal point of contact.

9 3/4" L
FO-108.....\$89.00



Human Vertebral Centrum Union Set



Set of 16 vertebral centra unions for determining age of teenage and young adult skeletons by observations of epiphyseal union of the thoracic and first two lumbar vertebral centra. Set includes the 16 selected centra and a 22-page booklet of guidelines for research and teaching. Included in the booklet is the 11-page original paper by Albert and Maples (1995), published in the *Journal of Forensic Sciences*.

FO-110-SET.....\$319.00



Booklet

Comparative Lumbar Vertebra Set of 10 (Arthritic and Normal)

Homo sapiens

The normal vertebrae are typical of a young adult who has experienced no unusual back trauma. The edges of the vertebral bodies are smooth and regular in shape. The osteoarthritic vertebrae are typical of an older adult or a person with a history of heavy labor (or both). The edges of the vertebral bodies are sharp and irregular. Bony outgrowths (osteophytes) are present.

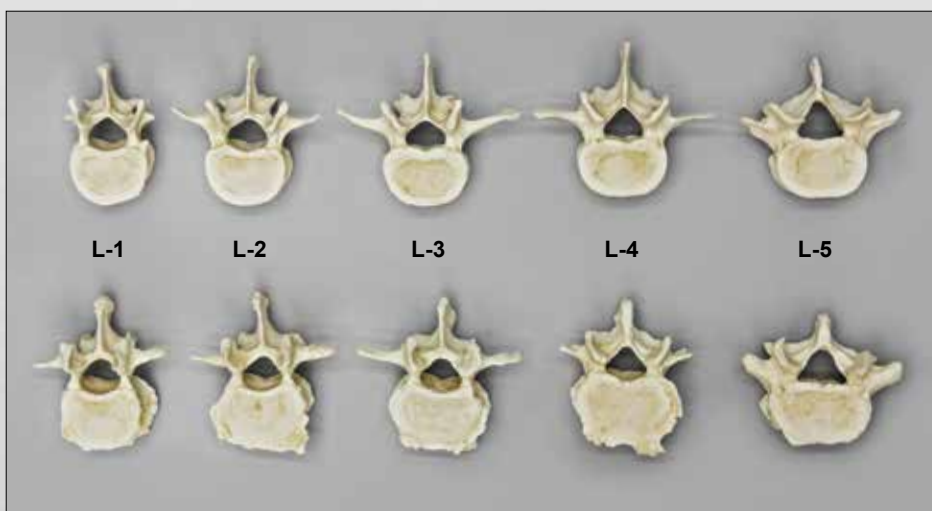
FO-105-SET\$360.00

Comparative Lumbar (L-3) Vertebra Set of 2 (Arthritic and Normal)

Homo sapiens

One normal and one arthritic vertebra.

FO-105-P\$72.00



Each display set is mounted on a modified sacrum with a rod down the center, allowing the vertebrae and intervertebral discs to be removed and replaced easily.

1. Comparative Lumbar Vertebra Display Set of 10 (Arthritic and Normal)
FO-105-AY.....\$420.00

2. Lumbar Vertebra Display Set of 5 (Normal)
FO-105-N.....\$210.00



www.boneclones.com



Bone Clones Osteological Reproductions

PATHOLOGY AND FORENSICS

45

Anatomically Modern Humans (*Homo sapiens*)

**1. *Homo sapiens*
Oase 1 mandible and
Oase 2 cranium
with sagittal cut**
(CT Scan Output)
35,000 YA.
Peștera cu Oase, Romania
8 ½" L, 5 ½" W, 7 ½" H
BH-048 \$359.00

**2. *Homo sapiens*
Oase 1 mandible and
Oase 2 cranium
assembled and
reconstructed**
35,000 YA.
Peștera cu Oase, Romania
8 ½" L, 5 ½" W, 7 ½" H
BH-049 \$359.00

**3. *Homo sapiens*
Kennewick Man**
9,000-9,500 YA.
8 ½" L, 5 ½" W, 8 ½" H
BH-047 \$389.00

**4. *Homo sapiens*
Cro-Magnon**
30,000-32,000 YA.
Les-Eyzies, France.
8 ¼" L, 6" W, 6 ¾" H
BH-017 \$195.00

5. *Homo sapiens* Skhul 5
100,000 YA.
Mount Carmel, Israel.
8" L, 5 ½" W, 7 ½" H
BH-032 \$295.00

**6. *Homo sapiens idaltu*
BOU-VP-16/1 "Herto"**
154,000-160,000 YA.
Herto, Ethiopia
9" L, 6" W, 6 ½" H
BH-045 \$349.00

Other Fossil Primates



Proconsul africanus
14-23 MYA.
Rusinga Island, Kenya.
5" L, 3" W, 3" H
BH-023 \$149.00



Sivapithecus indicus
GSP 15000 8.5-12.5 MYA.
Potwar Plateau, Pakistan.
5 ½" L, 4 ½" W, 6" H
BH-024 \$210.00



Aegyptopithecus zeuxis
29 MYA.
Faiyum, Egypt
4" L, 2 ½" W, 2 ½" H
BH-025 \$149.00



Saadanius hijazensis
SGS-UM 2009-002 28-29 MYA.
Al Hijaz, Saudi Arabia.
3 ½" L, 2 ½" W, 4 ½" H
BH-043 \$149.00

Bone Clones® Fossil Hominids

Interest in the evolution of man continues unabated. Each new discovery feeds into the stream of information about our ancient human history.

The Bone Clones® Fossil Hominid line is composed of finds from anatomically modern humans, archaic humans, early homo, early hominins, and other hominids. These classifications of human ancestors are provided for general categorization of casts available, and we hope it will help to place them in a timeline of human development.

The majority of the casts in this series have been recreated by our team of anatomical sculptors, while others have been produced from original material or scans of original material provided by researchers and/or the country of origin.

We continue our effort to produce new finds as they occur, leaving time for original papers to be published and enough scientific data to be obtained so we may produce our casts as precisely as possible. Each hominid is carefully researched and produced based on some or all of the following: casts of original fossils, the latest literature (descriptions and/or published measurements), input from the scientific community, and full color, life-size photographs, or any combination thereof.

The recreated hominids offered in this series are high quality, artistic recreations that can be advantageously used by educators as important visual aids in the classroom and appreciated by the general public. They are not intended for advanced graduate work or to be used for precise research purposes. Special thanks to our paleoanthropological and archaeological consultants.

Featured New Fossil Hominids

***Homo erectus* skulls 1-5 from Dmanisi, Georgia**—The five Dmanisi hominins offer an incredible glimpse of early human development, hominin migration patterns, and provide a unique insight into the morphological variation within this small population sample of human ancestors.

**1. *Homo erectus*
Dmanisi Skull 1
D2280**
1.7 MYA.
Dmanisi, Georgia.
6 ¾" L, 5 ¼" W, 4 ¼" H
BH-057\$220.00

**2. *Homo erectus*
Dmanisi Skull 2
D2282 / D211**
1.7 MYA.
Dmanisi, Georgia.
7 ¾" L, 5 ½" W, 7 ½" H
BH-056\$379.00

Stands Available
\$38.00 each

1.



2.



**3. *Homo erectus*
Dmanisi Skull 3
D2700 / D2735**
1.7 MYA. Dmanisi, Georgia.
7" L, 5" W, 6 ½" H
BH-028\$305.00

**4. *Homo erectus*
Dmanisi Skull 4
D3444 / D3900**
1.7 MYA. Dmanisi, Georgia.
6 ½" L, 5 ½" W, 5" H
BH-054\$350.00

**5. *Homo erectus*
Dmanisi Skull 5
D4500 / D2600**
1.7 MYA. Dmanisi, Georgia.
8" L, 5 ½" W, 7" H
BH-053\$379.00

3.



4.



5.



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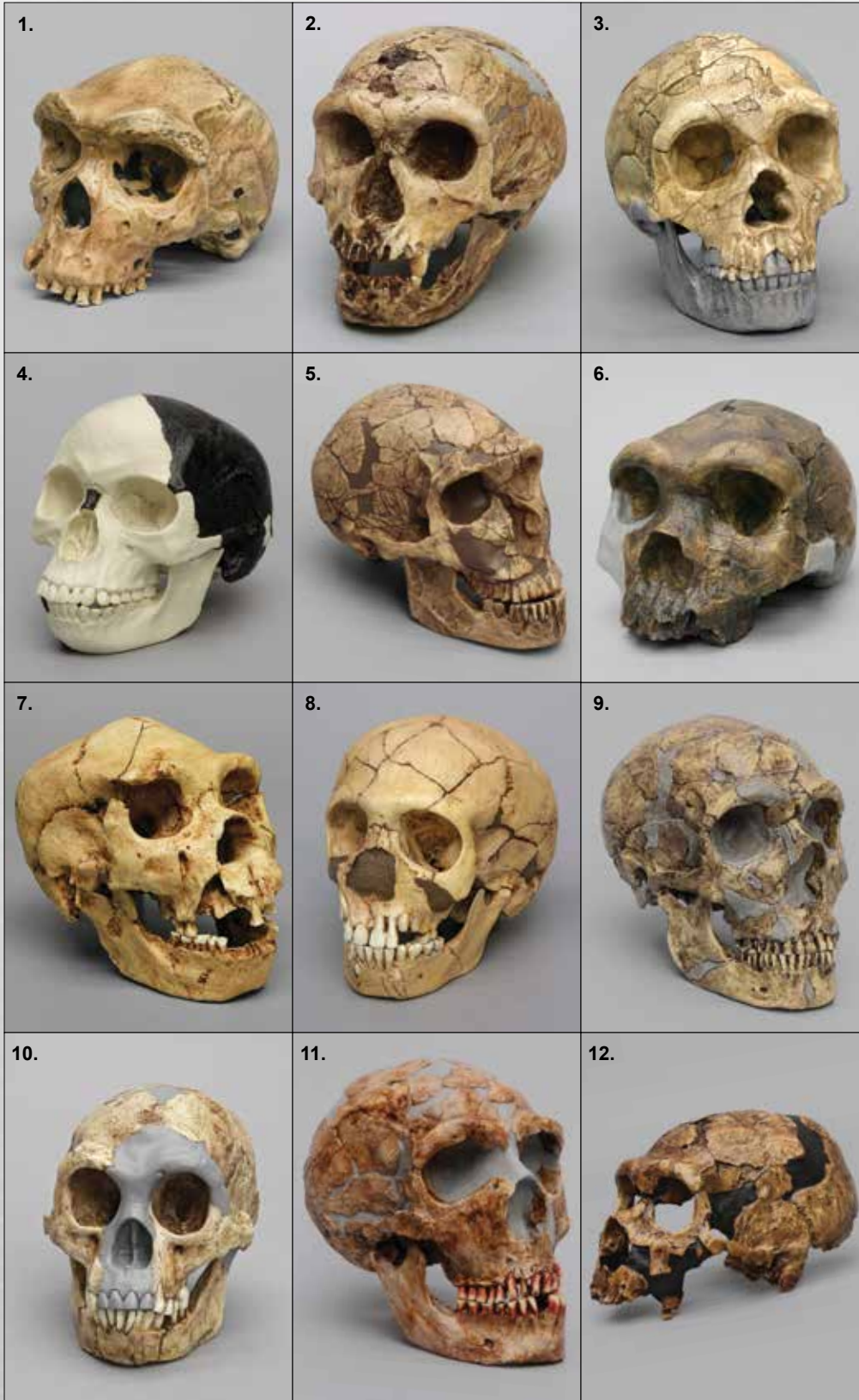


Bone Clones Osteological Reproductions

FOSSIL HOMINID SKULLS

47

Archaic Humans
(*Homo neanderthalensis*, *heidelbergensis*, *floresiensis*)



1. *Homo heidelbergensis*
Broken Hill 1
125,000-400,000 YA.
Kabwe, Zambia
9" L, 6" W, 6" H
BH-004\$195.00
2. *Homo neanderthalensis*
La Chapelle-aux-Saints
50,000 YA.
La Chapelle-aux-Saints, France.
9" L, 6" W, 7" H
BH-009-2\$280.00
3. *Homo neanderthalensis*
Gibraltar 1
28,000-200,000 YA.
Forbes' Quarry, Gibraltar
8" L, 6" W, 7" H
BH-040\$295.00
4. **Pitldown Man (1912 Fraud)**
8 1/2" L, 6" W, 7 1/2" H
BH-014\$255.00
5. *Homo neanderthalensis*
La Ferrassie 1
50,000 YA.
La Ferrassie, France.
9" L, 6" W, 7 1/2" H
BH-019\$280.00
6. *Homo heidelbergensis*
"Bodo" 600,000 YA.
Bodo D'ar, Ethiopia
8 3/4" L, 6" W, 6 1/4" H
BH-041\$245.00
with Jaw (not shown).
9" L, 6" W, 7 1/2" H
BH-041-C\$325.00
7. *Homo heidelbergensis*
Atapuerca 5
350,000-500,000 YA.
Atapuerca, Spain.
8" L, 5 1/2" W, 7 1/2" H
BH-022\$305.00
8. *Homo neanderthalensis*
(Child) Teshik-Tash
70,000 YA.
Teshik-Tash, Uzbekistan.
7 1/2" L, 5 1/2" W, 6 1/2" H
BH-027\$280.00
9. *Homo neanderthalensis*
La Ferrassie 1
Sawyer/Maley Reconstruction
50,000 YA.
La Ferrassie, France.
8 1/2" L, 6" W, 7 1/2" H
BH-030\$478.00
10. *Homo floresiensis*
Flores LB1 "The Hobbit"
18,000 YA. Flores, Indonesia.
6" L, 4 1/4" W, 5 1/4" H
BH-033-2\$325.00
11. *Homo neanderthalensis*
Shanidar 1
40,000-73,000 YA.
Shanidar Cave, Iraq
8 1/2" L, 6" W, 7 1/2" H
BH-050\$389.00
12. *Homo neanderthalensis*
Shanidar 5
40,000-73,000 YA.
Shanidar Cave, Iraq
8 1/2" L, 5 1/2" W, 5" H
BH-051\$238.00

Early Homo

(*Homo habilis*, *ergaster*, *erectus*, *antecessor*, *rudolfensis*)

Stands Available
\$38.00 each

1. *Homo habilis*

KNM-ER 1813

1.9 MYA. Koobi Fora, Kenya.

6 ½" L, 4 ½" W, 4 ½" H

BH-002 \$195.00

2. *Homo habilis* Jaw OH 7

1.75 MYA.

Olduvai Gorge, Tanzania.

3" L, 2" W

KO-196 \$149.00

3. *Homo habilis* OH 24

1.8 MYA.

Olduvai Gorge, Tanzania.

7" L, 5" W, 4" H

BH-010 \$195.00

4. *Homo ergaster*

KNM-ER 3733

1.75 MYA. Koobi Fora, Kenya.

7 ½" L, 5" W, 5 ½" H

BH-011 \$195.00

5. *Homo ergaster*

KNM-WT 15000

1.6 MYA. Nariokotome, Kenya.

8" L, 5 ½" W, 7" H

BH-012 \$280.00

6. *Homo rudolfensis*

KNM-ER 1470

1.8-1.9 MYA. Koobi Fora, Kenya.

8" L, 5 ½" W, 5" H

BH-013 \$195.00

1.



2.



3.



4.



5.



6.



7.



8.



9.



10.



7. *Homo erectus*

Sangiran 17

700,000-1.6 MYA.

Java, Indonesia.

9" L, 5 ½" W, 5" H

BH-018 \$200.00

8. *Homo antecessor*

800,000 YA.

Atapuerca, Spain

4" L, 4 ½" W, 5" H

BH-031 \$220.00

9. *Homo habilis*

KNM-ER 1813 with Jaw

1.9 MYA.

Koobi Fora, Kenya.

6" L, 5" W, 6" H

BH-034 \$385.00

10. *Homo erectus*

"Peking Man"

300,000-600,000 YA.

8 ½" L, 5 ½" W, 7" H

BH-038 \$349.00



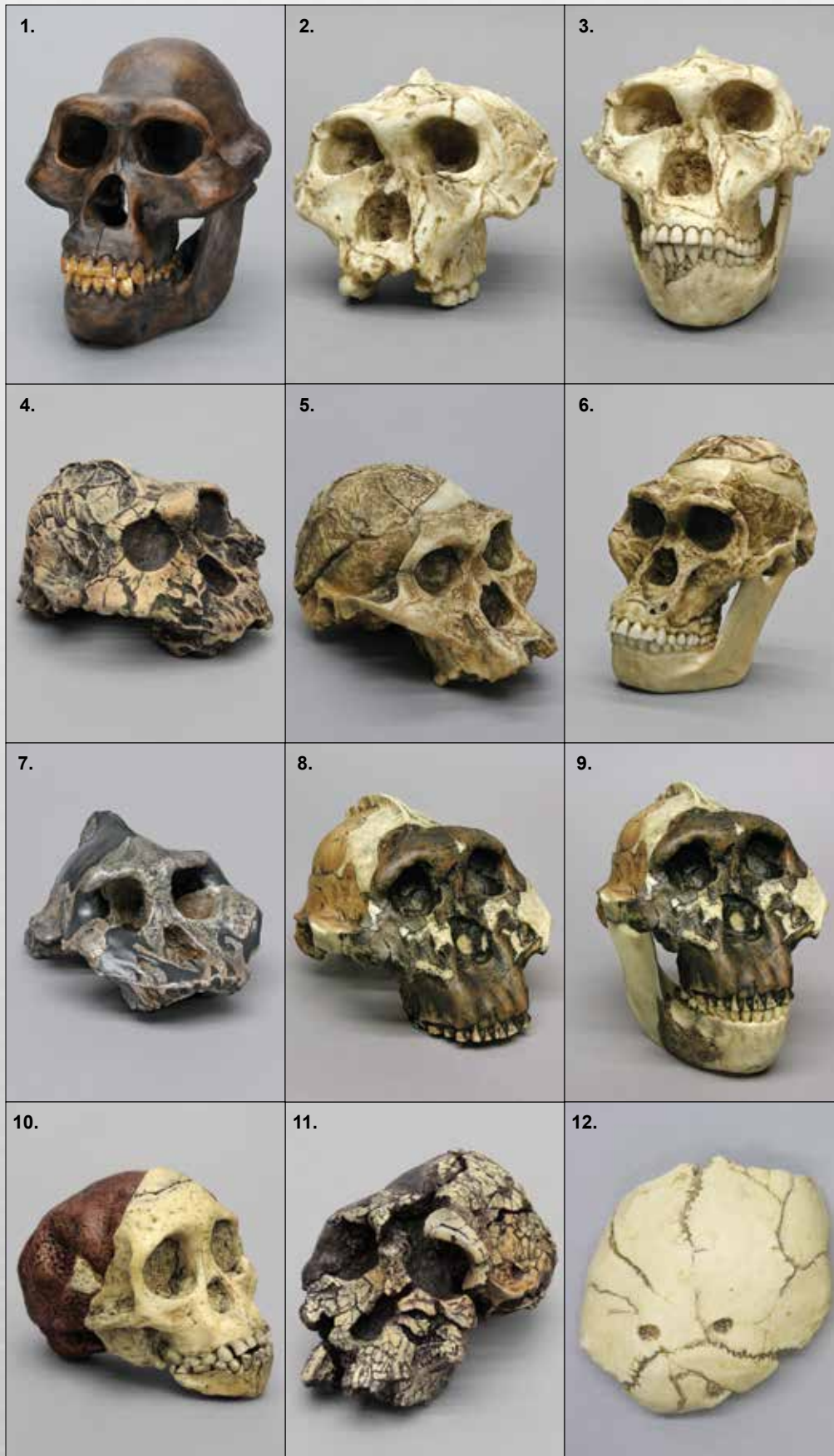
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Bone Clones Osteological Reproductions

FOSSIL HOMINID SKULLS

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1. *Australopithecus afarensis*
2.9-3.9 MYA. Ethiopia.
7 ½" L, 6" W, 7" H
BH-001 \$255.00
2. *Australopithecus*
(*Paranthropus*) *robustus*
SK 48 1.5-2 MYA.
Swartkrans, South Africa.
6 ¼" L, 6" W, 4 ¾" H
BH-003 \$195.00
3. *A. (P.) robustus*
SK 48 with Jaw
6 ½" L, 6" W, 6" H
BH-003-C \$280.00
4. *Australopithecus*
(*Paranthropus*) *boisei*
KNM-ER 406
1.7 MYA. Koobi Fora, Kenya.
7 ½" L, 6 ½" W, 5" H
BH-006 \$195.00
5. *Australopithecus africanus*
Sts 5 "Mrs. Ples"
2.5 MYA. Sterkfontein,
Transvaal, South Africa.
6 ¾" L, 4 ¾" W, 5 ¼" H
BH-007 \$195.00
6. *Australopithecus africanus*
Sts 5 "Mrs. Ples" with Jaw
2.5 MYA. Sterkfontein,
Transvaal, South Africa.
6 ½" L, 5" W, 6 ½" H
BH-007-C \$280.00
7. *Australopithecus*
(*Paranthropus*) *aethiopicus*
KNM-WT 17000 "Black Skull"
2.5 MYA. Lake Turkana, Kenya.
9" L, 6" W, 4" H
BH-008 \$195.00
8. *Australopithecus*
(*Paranthropus*) *boisei*
OH 5 (*Zinjanthropus*)
1.8 MYA.
Olduvai Gorge, Tanzania.
7 ¾" L, 6 ¼" W, 6 ¾" H
BH-015 \$195.00
9. *A. (P.) boisei* OH 5 with jaw
8 ½" L, 6 ½" W, 7 ½" H
BH-015-C \$280.00
10. *Australopithecus africanus*
(Taung Child)
2.3 MYA. Taung, South Africa.
5" L, 3" W, 4" H
BH-016 \$195.00
11. *Kenyanthropus platyops*
KNM-WT 40000
3.5 MYA. Lake Turkana, Kenya.
6 ½" L, 4 ½" W, 5" H
BH-020 \$265.00
12. *A. (P.) robustus*
SK 54 (Juvenile)
Cranium Section 1.5 MYA.
Swartkrans, South Africa.
4" W
BHK-001 \$149.00

Early Hominins

(*Australopithecus*, *Paranthropus*, *Ardipithecus*, *Sahelanthropus*, *Kenyanthropus*)

Stands Available
\$38.00 each

1. *Australopithecus afarensis*

A.L. 288-1 "Lucy"

3.2 MYA. Hadar, Ethiopia.

6 1/2" L, 5" W, 6" H

BH-021-A\$280.00

2. "Lucy" (Dark Finish)

BH-021-T\$280.00

3. *Australopithecus*

(*Paranthropus*) *boisei*

Female KNM-ER 732

1.7 MYA. Koobi Fora, Kenya.

6 1/2" L, 5 1/2" W, 4" H

BH-026\$195.00

4. *Sahelanthropus tchadensis*

"Toumai"

6-7 MYA. Toros-Manalla, Chad.

7" L, 4" W, 4" H

BH-029\$280.00

5. *Australopithecus africanus*

Sts 71 2.3-2.8 MYA.

Sterkfontein, South Africa.

6 1/2" L, 3 1/2" W, 4" H

BH-035\$185.00

6. *A. africanus* Sts 52

Maxilla & Mandible

4" L, 4" W, 4 1/2" H

BH-036\$210.00

1.



2.



3.



4.



5.



6.



Ardipithecus ramidus

4.4 MYA.

Afar, Ethiopia

6" L, 5" W, 5" H

BH-039.....\$379.00



Australopithecus afarensis

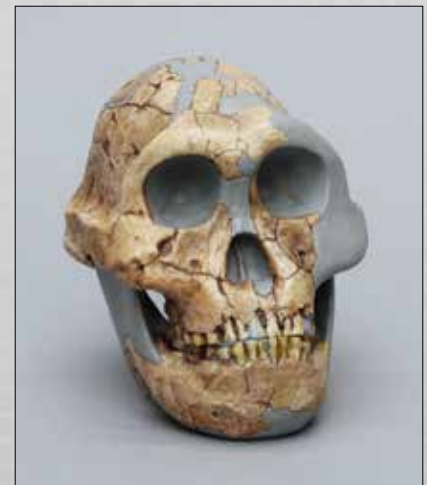
Male A.L. 444-2

3 MYA.

Hadar, Ethiopia

8" L, 6 1/2" W, 7" H

BH-044.....\$349.00



Australopithecus

(*Paranthropus*) *robustus* DNH 7

1.5-2 MYA.

Drimolen, South Africa

7" L, 5" W, 6" H

BH-046.....\$325.00



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Bone Clones Osteological Reproductions

FOSSIL HOMINID SKULLS

51



Skull (Dark Finish)

6 1/2" L, 5" W, 6" H

BH-021-T..... \$280.00

Skull (Light Finish)

(See pg 51)

BH-021-A \$280.00

***Australopithecus afarensis*
"Lucy" A.L. 288-1**

3.2 MYA. Discovered by D. Johanson in 1974 in Hadar, Ethiopia. Bone Clones reconstructed the Articulated "Lucy" Skeleton by using bones from the disarticulated version, which were based on the original find. In addition, by extrapolating from published data, relationships to other bones, and partial bone fragments, we created brass parts to indicate missing skeletal elements.

Articulated Skeleton, Walking

Note that the arms and legs of the skeleton in walking position are rigid and fixed.

(Stand and Base Included)

3' 7" Tall on an 18" Diameter Base

SC-036-AW \$7,250.00

Articulated Skeleton, Standing

(Stand and Base Included)

3' 7" Tall on an 18" Diameter Base

SC-036-A..... \$6,500.00

Disarticulated Skeleton

Skeleton is provided disarticulated along with a numbered photo to help identify the parts.

SC-036-D..... \$2,100.00



Pelvis, Disarticulated

KO-036-PD.....\$265.00



Pelvis, Articulated

9" L, 5" W

KO-036-PA\$250.00



Femur Assembled

10 3/4" Long

KO-036-FA\$115.00



Cranium Fragments
6 parts
KO-036-C\$125.00



Jaw
4" L, 3 3/4" W, 2 1/4" H
KO-036-J \$95.00



Innominate and Sacrum
KO-036-PS\$175.00



Innominate Only
KO-036-P \$90.00



Sacrum Only
KO-036-S \$88.00



Chimpanzee Skeleton, Male
Bipedal, Articulated
Pan troglodytes
4' 9" H (on stand)
SC-003-BP \$3,200.00



Innominate, Femur and Sacrum
5 parts
KO-036-PF\$270.00



Femur Parts
KO-036-F \$130.00



Chimpanzee Pelvis and Femur, Female
Pan troglodytes
KO-187-PF \$259.00





Neanderthal Humerus
12 ¾" L
KO-083.....\$140.00

Neanderthal Ulna
10 ½" L
KO-090.....\$110.00

Neanderthal Radius
9 ¼" L
KO-089.....\$115.00



Neanderthal Atlas
1 ¾" L, 3" W
KO-077.....\$80.00

Neanderthal Scapula
7" L, 6" W
KO-080.....\$245.00



Neanderthal Clavicle
6 ¾" L
KO-078.....\$87.00



Neanderthal Tibia and Fibula (attached)
14 ½" L
KO-091.....\$285.00



Neanderthal Femur
17 ¾" L
KO-082.....\$260.00



Comparative Hyoid Set, Neanderthal and Modern Human
Serving an anchoring function for the tongue, the hyoid is implicated in the evolution of speech development.
COMP-135.....\$70.00



Neanderthal Foot, Articulated
Based on a mixture of La Ferrassie 1 and a robust modern human.
9" L, 3 ½" W
KO-087.....\$365.00

Neanderthal Hand, Articulated
7" L, 6 ½" W
KO-086.....\$365.00

Neanderthal Patella
(Not Shown)
1 ½" L, 1 ½" W
KO-088.....\$45.00



Neanderthal Skeleton Reconstruction, Partially Disarticulated
See our website for all postcranial details.
SC-019-D.....\$8,800.00



Neanderthal Set
Includes: Skull (BH-030), pelvis, femur, humerus
KO-085.....\$1,650.00



Homo neanderthalensis
La Ferrassie 1, Sawyer/Maley
 50,000 YA. La Ferrassie, France.
 8 ½" L, 6" W, 7 ½" H
BH-030\$478.00



Neanderthal Pelvis
 This pelvis is a complicated mosaic drawn from three distinct Neanderthal specimens: Kebara 2, Feldhofer and La Ferrassie 1.
 12" W, 8" H
KO-081.....\$840.00



Neanderthal Hyoid, from Kebara
 The hyoid lies between the mandible and larynx, where it anchors the muscles necessary for speech. This important discovery demonstrates that Neanderthals had the capacity for speech and possibly language.
 2" L, 1 ½" W
KO-135.....\$45.00



Neanderthal Pelvis, Femur and Humerus Set
KO-084.....\$1,175.00

Neanderthal Pelvis and Femur (left)
SC-019-PF.....\$1,080.00



Neanderthal Thorax Assembly
 21 ½" L, 13" W
KO-079.....\$2,920.00



Comparative Pelvis, Femur and Humerus Set, Neanderthal and Modern
 Contains modern *Homo sapiens* and *Homo neanderthalensis* pelvis, femur and humerus. An excellent, economical way to compare structures.
COMP-107.....\$1,375.00



Neanderthal Skeleton, Articulated

Homo neanderthalensis

The most complete Neanderthal skeleton ever offered, this skeleton was reconstructed and articulated by anthropologists Gary J. Sawyer, of the American Museum of Natural History, and Blaine C. Maley. It was based primarily on the La Ferrassie 1 specimen, with missing or incomplete elements filled in from other Neanderthal casts. This reconstruction vividly illustrates how Neanderthals differed from modern humans. Contrasts with modern humans can be noted in the structure of the pelvis and rib cage.

(Stand and Base Included) 5' 2 ½" Tall on 23" Diameter Base
SC-019-A.....\$13,900.00





***Homo ergaster* Skeleton, KNM-WT 15000, Articulated**

Bone Clones reconstructed the "Nariokotome Boy" or "Turkana Boy" skeleton by using bones from the disarticulated version, which were based on the original find. In addition, by extrapolating from published data, relationships to other bones, and partial bone fragments, we reconstructed several vertebrae and the sternum, painting these black to differentiate them from the found bones. We used brass parts to indicate other missing bones.

(Stand and Base Included) 60" Tall on 18" Diameter Base
SC-012-A.....\$6,200.00



***Homo ergaster* Skull, KNM-WT 15000**
 1.6 MYA. Nariokotome, Kenya.
 8" L, 5 1/2" W, 7" H
BH-012.....\$280.00

***Homo ergaster* Skeleton, KNM-WT 15000, Disarticulated**
 1.6 MYA.

Discovered in Nariokotome, Kenya. The completeness of the skull allowed scientists to get accurate measurements of brain size. Many other skeletal parts were also recovered, giving anthropologists a great deal of information regarding body size, limb proportions, approximate age of death (early adolescence) and whether or not language was possible. Skeleton is provided disarticulated along with a numbered photo.

SC-012-D.....\$2,800.00



***H. ergaster* KNM-WT 15000 Pelvis and Femur**
SC-012-PF..... \$330.00

Pelvis Only
 8 1/2" W, 7 1/2" H
KO-312-P \$245.00

Femur Only
 16 3/4" L
SC-012-F\$110.00

Ardipithecus ramidus

4.4 MYA. *Ardipithecus ramidus* was discovered by Tim White and associates in 1994 in the Afar region of Ethiopia and published in 2009. The partial skeleton ARA-VP-6/500, now is considered by many to be the oldest skeleton of a supposed human ancestor. The discovery team's examination of the pelvis indicates that this species was able to walk upright, not with the same fluidity of later humans or even "Lucy" but with much more efficiency than chimpanzees. However, the lower part of the pelvis offers evidence that the species possessed the musculature required for tree-climbing. The bones of the wrist indicate, according to the discovery team, that while moving quadrupedally, weight was placed on the palms of the hands rather than on the knuckles. White and associates hypothesize that *Australopithecus* is a descendant of *Ardipithecus*, while others hypothesize that *Ardipithecus* might be an extinct sister species to Lucy's genus. Note that the skull, pelvis, left hand and foot are currently available. The remainder of the skeleton is in process.



Ardipithecus ramidus Skull
6" L, 5" W, 5" H BH-039....\$379.00

1.



1. A. ramidus
Pelvis, Disarticulated
SC-039-PD...\$350.00

2.



2. A. ramidus
Hand, Articulated
SC-039-184-A....\$310.00

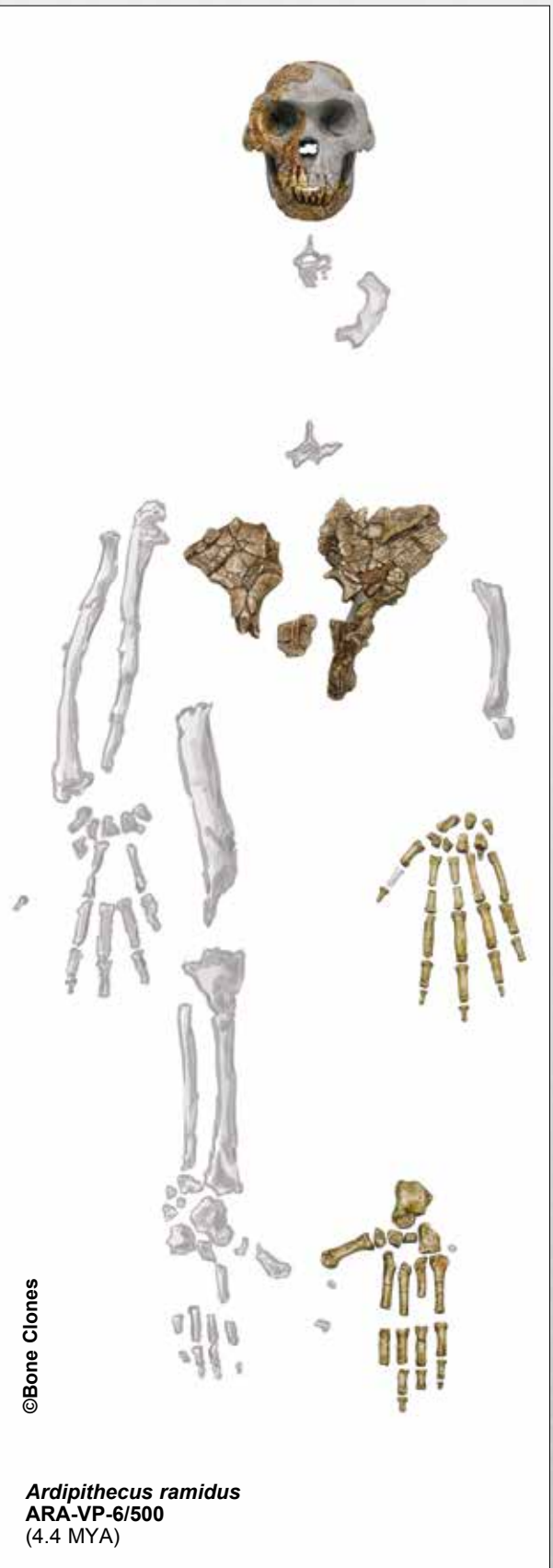
3. A. ramidus
Hand, Disarticulated
SC-039-184-D...\$250.00

4.



4. A. ramidus
Foot, Articulated
SC-039-185-A...\$310.00

5. A. ramidus
Foot, Disarticulated
SC-039-185-D...\$250.00



©Bone Clones

Ardipithecus ramidus
ARA-VP-6/500
(4.4 MYA)

Please visit our website for updated information.



www.boneclones.com



Bone Clones Osteological Reproductions

FOSSIL HOMINID
ARDIPITHECUS RAMIDUS

57

Fossil Hominid Sets

Set of 9 Fossil Hominid Skulls

Nine milestone discoveries representing a timeline of, and the diversity in, human lineage. Discounted when bought as a set:

Includes:

- BH-002 *H. habilis*
- BH-007 *A. africanus*
- BH-009-2 *H. neanderthalensis*
- BH-012 *H. ergaster*
- BH-015 *A. (P.) Boisei*
- BH-016 *A. africanus*
- BH-020 *K. platyops*
- BH-021-T *A. afarensis*
- BH-038 *H. erectus*

BH-KRO-1.....\$2,098.00



Set of 7 Primate Skulls with Lesson Plan

The lesson plan, intended for high school through introductory level college students, is designed to introduce students to hominid evolution and the scientific method through the use of research, data collection, and analysis using this set of seven primates.

BH-KRO-7.....\$1,695.00

Includes:

- BC-001 Gorilla
- BC-016 Human
- BC-003 Chimpanzee
- BH-001 *A. afarensis*
- BH-015-C *A. boisei*
- BH-019 *H. neanderthalensis*
- BH-038 *H. erectus*
- Teacher Guide
- Lab Activity
- 4 Calipers

Set of 7 Skulls

This set of 7 skulls is a full-size companion to our KAM SET-7, 1:2 scale Primate Skulls. (see next page)

Includes:

- BC-001 Gorilla
- BC-016 Human
- BC-003 Chimpanzee
- BH-001 *A. afarensis*
- BH-015-C *A. boisei*
- BH-019 *H. neanderthalensis*
- BH-038 *H. erectus*

BH-KRO-3.....\$1,745.00



Set of 6 Fossil Hominid Skulls

This set of 6 skulls represents a range of fossil hominids based on age and historical importance. Ages range from 50,000 YA to 3.2 MYA.

Includes:

- BH-007 *A. africanus*
- BH-009-2 *H. neanderthalensis*
- BH-012 *H. ergaster*
- BH-015 *A. (P.) Boisei*
- BH-021-T *A. afarensis*
- BH-038 *H. erectus*

BH-KRO-2.....\$1,435.00

Scale Primate Sets



KAM-02
A. afarensis

KAM-01
A. (P.) boisei

KAM-05
H. erectus

KAM-06
H. neanderthalensis

KAM-04
Gorilla

KAM-03
Chimpanzee

KAM-07
H. sapiens



**Set of 7 Primate
Skulls, 1:2 scale,
(Base Not Included)**
KAM-SET-7.....\$546.00

**All Skulls Also Available
Individually, \$78.00 Each**

**Base for Set of 7 Primate
Skulls, 1:2 scale**
24" L, 9" W, 1 1/4" H
S-KAM-SET-7-2\$85.00

Set of 7 Sculpted Hominid Busts (1:4 scale) by Atelier Daynes

1:4 scale models based on CT scans of life-size fossil hominid sculptures by Atelier Daynes of Paris, France. These seven miniature busts beautifully capture Elisabeth Daynes' superb artistry in her specialized field of reconstructions. Endorsed by prominent scientists and exhibited in many museums around the world, each hominid sculpture depicts a unique and specific early human face. Made of polyurethane resin with a bronze finish. Distributed exclusively by Bone Clones, Inc. **Imported.**



**See pg. 7 for more scale
products and information.**



1. AD-001

2. AD-002

3. AD-003

4. AD-004

5. AD-005

6. AD-006

7. AD-007

Set of all 7 Sculpted Busts
AD-SET-7 \$359.00

1. A. afarensis, female
2 1/4" L, 2 3/4" W, 2 3/4" H
AD-001 \$54.00

2. A. afarensis, male
2 3/4" L, 3 1/4" W, 3 1/4" H
AD-002 \$54.00

3. A. africanus
2 1/2" L, 3" W, 3 1/4" H
AD-003 \$54.00

4. Homo habilis
2" L, 2 3/4" W, 2 1/2" H
AD-004 \$54.00

5. A. (P.) boisei
3" L, 3 1/2" W, 3 1/2" H
AD-005 \$54.00

6. H. neanderthalensis
2 3/4" L, 3 1/4" W, 3 3/4" H
AD-006 \$54.00

7. H. sapiens, Cro-Magnon
2" L, 2 1/4" W, 3 1/2" H
AD-007 \$54.00



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Bone Clones Osteological Reproductions

SCALE PRIMATE SETS

59



**1. Human Adult
Knee Joint
KO-336-KJ \$69.00**

**2. Chimpanzee
Knee Joint
Pan troglodytes
SC-003-KJ..... \$130.00**

**3. *Homo erectus*
Knee Joint
KNM-ER 1481
1.89 MYA
KO-211-KJ \$161.00**

**4. *A. afarensis*
Knee Joint
A.L. 129 1a + 1b
3.4 MYA
KO-392-KJ \$150.00**

***Homo erectus* KNM-ER
1481, Femur and Partial
Tibia
1.89 MYA
Femur 15 1/4" L
Partial Tibia 4 1/2" L
KO-211-PR..... \$185.00**

**Femur Only
15 1/4" L
KO-211 \$136.00**



***Homo habilis* OH 8
Foot
3 3/4" L, 2 1/4" W, 1 1/2" H
KO-242.....\$162.00**



***Australopithecus
africanus*
Disarticulated Pelvis
KO-195-PD.....\$260.00**

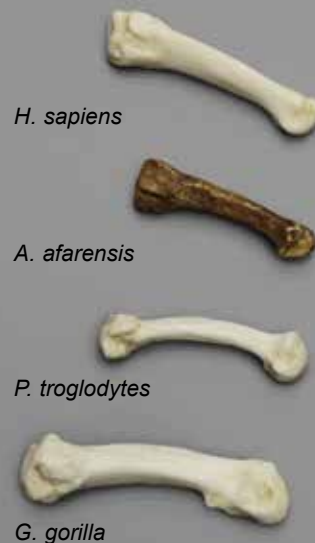
***Australopithecus anamensis* KO-136-SET (8 Pieces)**



***Australopithecus anamensis*
Cranial and
Postcranial Set
KO-136-SET.....\$370.00**



***Homo neanderthalensis*
Shanidar 1
Humerus
KO-064.....\$85.00**



**Set of 4th metatarsals from:
Human, *A. afarensis*,
Chimpanzee, Gorilla
KO-390-4MT-SET.....\$84.00**

Neanderthal Tools

**Neanderthal Tools,
Set of 21 Stone Tools**
MS-100-SET.....\$998.00

Neanderthal Tools

Set of 6 selected tools to represent the different types.

Set includes:

MS-101

MS-105

MS-112

MS-115

MS-117

MS-120

MS-100-6-SET.....\$308.00



See our website
for individual
tools and more
information.



Stone Tools, Set of 6

Includes artifacts from Africa, dated from 1.2 to 1.5 MYA.

MS-201-SET...\$358.00

MS-206.....\$72.00

MS-205.....\$72.00

MS-204.....\$95.00

MS-201.....\$43.00

MS-202.....\$52.00

MS-203.....\$45.00



Farpoint Clovis Spearpoint

The 8-inch Farpoint Clovis spearpoint was found in 2005 by Edgar Perez at a residential construction site in Malibu. The first such artifact found on the west coast, the Clovis spearpoint indicates the presence of Clovis people 11,000 years ago and raises questions about the origins of the earliest inhabitants of the Americas. It is currently curated at the Santa Barbara Museum of Natural History.

5 1/4" L, 2" W

MS-220.....\$95.00



Banded Hand-Axe

Acheulian, SW Morocco, (Flint).
4 3/4" L x 2 1/2" W

MS-001.....\$92.00

Triangular Bi-facial Hand-Axe

Mousterian, Roye, Picardie
Region, France.

40,000 - 120,000 years old,
Neanderthal.

1 3/4" L x 1 1/2" W

MS-002.....\$70.00

Levallois Blade

Mousterian, Verberie, Picardie
Region, France. Distinct from
Acheulian; Bi-facial ovate point.

2 1/2" L x 1 3/4" W

MS-003.....\$70.00

Cordiform Bi-facial Hand-Axe

Mid-Acheulian, Montealegre
del Castillo, Albacete, Spain.
6 3/8" L x 3 1/2" W

MS-004.....\$70.00

Scraper

Mousterian, Cairo, Egypt,
40,000 years old.

4" L x 1 1/2" W

MS-005.....\$55.00

Bi-facial Hand-Axe

Acheulian,
Ergttersine, Libya,
over 250,000 years old.

6 3/8" L x 3 1/2" W

MS-006.....\$70.00



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Bone Clones Osteological Reproductions

FOSSIL HOMINID TOOLS

61



Orangutan Infant, 11 months old
Pongo pygmaeus
 4 ½" L, 3 ½" W, 4" H
 BC-208 \$175.00



Chimpanzee Infant, 11 months old
Pan troglodytes
 4 ½" L, 3 ½" W, 3 ½" H
 BC-207 \$175.00



Gorilla Infant, 6 months old
Gorilla gorilla
 4 ¾" L, 3 ½" W, 3 ¾" H
 BC-339 \$175.00



Orangutan Fetal, Near-term
Pongo pygmaeus
 3 ½" L, 2 ½" W, 3" H
 BC-206 \$135.00



Chimpanzee Fetal, Near-term
Pan troglodytes
 3 ½" L, 2 ½" W, 2 ½" H
 BC-205 \$135.00



Orangutan and Chimpanzee fetal postcranial bones are also available. See our website for more information.

Set of 6 Primate Skulls BC-1234-SET.....\$1,327.00

Human BC-016



Orangutan BC-002B



Gorilla BC-001



Siamang BC-047



Chimpanzee BC-003



Bonobo BC-123



- 1. Gorilla, Male**
Gorilla gorilla
 12" L, 6 ½" W, 9" H
BC-001 \$290.00
- 2. Gorilla, Male, X-large**
Gorilla gorilla
 11 ½" L, 7" W, 10" H
BC-036 \$298.00
- 3. Mountain Gorilla, Male**
Gorilla gorilla beringei
 12 ½" L, 7 ½" W, 9" H
BC-124 \$325.00
- 4. Gorilla, Female**
Gorilla gorilla
 8 ½" L, 5 ½" W, 7" H
BC-035 \$268.00
- 5. Sumatran Orangutan, Male**
Pongo abelii
 9" L, 7" W, 10" H
BC-002S \$270.00
- 6. Bornean Orangutan, Male**
Pongo pygmaeus
 9 ½" L, 6 ½" W, 8" H
BC-002B \$255.00
- 7. Bornean Orangutan, Female**
Pongo pygmaeus
 7" L, 5" W, 6 ½" H
BC-255 \$240.00
- 8. Chimpanzee, Male**
Pan troglodytes
 8" L, 5 ½" W, 6" H
BC-003 \$238.00
- 9. Chimpanzee, Female**
Pan troglodytes
 7" L, 5" W, 6" H
BC-248 \$238.00
- 10. Bonobo, Female**
Pan paniscus
 7" L, 4" W, 5" H
BC-123 \$238.00
- 11. Bonobo, Male**
Pan paniscus
 7" L, 5" W, 5 ½" H
BC-252 \$245.00
- 12. White-handed Gibbon, Male**
Hylobates lar
 4" L, 2 ½" W, 3" H
BC-291 \$180.00
- 13. Siamang, Female**
Symphalangus (Hylobates) syndactylus
 5" L, 3" W, 4" H
BC-047 \$170.00
- 14. Siamang, Male, X-large**
Symphalangus (Hylobates) syndactylus
 5" L, 4" W, 3 ½" H
BC-290 \$180.00
- 15. Chimpanzee, Juvenile**
Pan troglodytes
 7" L, 4 ½" W, 5" H
BC-325 \$228.00





1. Hanuman Langur
Semnopithecus entellus
 5" L, 4" W, 4" H
BC-084\$179.00

2. Howler Monkey
Alouatta palliate
 5" L, 3" W, 4 ½" H
BC-017\$172.00

3. Titi Monkey
Callicebus torquatu
 1 ¾" L, 1 ½" W, 2 ¼" H
BC-319\$98.00

4. Talapoin Monkey
Miopithecus talapoin
 2 ¾" L, 1 ¾" W, 2" H
BC-298\$135.00

5. Squirrel Monkey
Saimiri sciureus
 2 ¾" L, 1 ¾" W, 2" H
BC-320\$98.00

6. Howler Monkey Hyoid
Alouatta palliate
 An extra large hyoid, allows this large New World monkey to make its voice heard across a distance of two miles.
 2 ¾" L, 1 ½" W, 1 ¾" H
KO-179\$55.00



Baboon

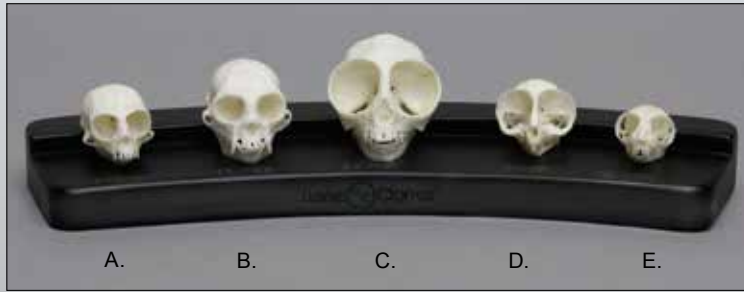
6. Mandrill Baboon, Female
Mandrillus sphinx
 7" L, 4" W, 4 ½" H
BC-261\$215.00

7. Mandrill Baboon, Male
Mandrillus sphinx
 9" L, 5 ½" W, 5" H
BC-010\$240.00

8. Chacma Baboon, Female
Papio ursinus
 Found on the savannahs of southern Africa, it has a dog-like muzzle, which motivates one of its common names, the dog-faced monkey.
 7" L, 4" W, 4 ½" H
BC-259\$215.00

9. Chacma Baboon, Male
Papio ursinus
 Able to run 35-40 mph, these primates also possess sharp hearing and eyesight.
 9" L, 5" W, 5" H
BC-258\$235.00





**Comparative Set of 5
Lesser Primates**
(Base Included)
COMP-108.....\$499.00

- A. BC-081 Pygmy Marmoset
- B. BC-080 Cotton-top Tamarin
- C. BC-109 Owl Monkey
- D. BC-050 Tarsier
- E. BC-136 Mouse Lemur



Tarsier
Tarsius syrichta
1 ½" L, 1" W, 1" H
BC-050.....\$85.00

Cotton-top Tamarin
Saguinus oedipus
2" L, 1 ½" W, 1 ½" H
BC-080.....\$98.00

Owl Monkey
Aotus trivirgatus
2" L, 1 ½" W, 2" H
BC-109.....\$109.00

Pygmy Marmoset
Cebueella pygmaea
1 ½" L, 1" W, 1" H
BC-081.....\$98.00

Mouse Lemur
Microcebus murinus
1 ½" L, 1" W, ¾" H
BC-136.....\$90.00



Slender Loris
Loris tardigradus
2" L, 1" W, 1" H
BC-266.....\$98.00

Aye-Aye
Daubentonia madagascariensis
3" L, 2" W, 2" H
BC-163...\$170.00

Aye-Aye Arm
D. madagascariensis
7"
KO-163.....\$170.00

Slow Loris
Nycticebus coucang
2 ½" L, 1 ½" W, 1 ½" H
BC-264.....\$98.00

Common Marmoset
Callithrix jacchus
1 ¾" L, 1" W, 1 ½" H
BC-311.....\$98.00



Saki Monkey
Pithecia pithecia
3" L, 2" W, 2 ½" H
BC-304.....\$145.00

Ring-tailed Lemur
Lemur catta
3 ½" L, 2" W, 2" H
BC-087.....\$119.00

Indri Lemur (See p 73)
Indri indri
4" L, 2 ½" W, 2 ½" H
BC-282.....\$145.00

Sifaka Lemur
Propithecus verreauxi
3" L, 2 ¼" W, 2 ½" H
BC-284.....\$145.00



1. Gorilla Skeleton, Articulated

Gorilla gorilla

Each bone—over 180 pieces—was individually cast from a very large male silverback lowland gorilla. Licensed by the Philadelphia Zoo.

(Stand Included)

48" L, 26" W, 48" H

SC-028-A..... \$4,800.00

Disarticulated

(Not Shown)

SC-028-D..... \$3,300.00

Bipedal, Articulated

(Not Shown, Stand Included)

6' 1" H (on stand)

SC-028-BP \$4,500.00

2. Orangutan Skeleton, Articulated

Pongo abelii

From a male Sumatran orangutan. Restricted to a small part of Sumatra, this endangered species verges on extinction.

(Stand and Base Included)

5' H on a 24" Diameter Base

SC-002-A..... \$4,800.00

Orangutan Skeleton, Disarticulated

(Not Shown)

SC-002-D..... \$3,100.00

3. Chimpanzee Skeleton, Articulated

Pan troglodytes

This specimen is a particularly large male.

(Stand Included)

34" L, 19" W, 31" H

SC-003-A..... \$3,200.00

Wood Base for Display

(Not Shown) 35 1/4" L, 16 1/4" W

S-SC-003..... \$125.00

Disarticulated (Not Shown)

SC-003-D..... \$2,250.00

Bipedal, Articulated

(See p 53, Stand Included)

4' 9" H (on stand)

SC-003-BP \$3,200.00



See our website for
postcranial list and
more information.



1.



1. Mandrill Baboon Skeleton, Articulated

Mandrillus sphinx (Stand Included)

33" L, 12" W, 25" H

SC-010-A..... \$3,300.00

Mandrill Baboon Skeleton, Disarticulated (Not Shown)

SC-010-D..... \$2,300.00



Mandrill Baboon Hand, Articulated, Rigid

6" L

SC-010-24-A \$145.00

2. Bonobo Skeleton, Articulated

Pan paniscus

A 9-year-old female from the Democratic Republic of the Congo. Sometimes called the pygmy chimpanzee, the smaller bonobo species is distinct from the common chimpanzee, *P. troglodytes*. Exclusively licensed to Bone Clones by the San Diego Natural History Museum.

(Stand and Base Included)

14" W, 45" H

SC-123-A..... \$3,300.00

Bonobo Skeleton, Disarticulated

(Not Shown)

SC-123-D..... \$2,300.00

3. Siamang Skeleton, Articulated

Symphalangus (Hylobates) syndactylus

The smallest of the great apes, gibbons and siamangs are known for their remarkable gymnastic ability and extremely long arms. While they have much in common, several characteristics distinguish the siamang from gibbons. Most noticeable is the siamang's impressive throat sac, which inflates to a size equal to the size of its head.

(Stand and Base Included)

16" W, 30" H

SC-047-A..... \$2,250.00

Siamang Skeleton, Disarticulated

(Not Shown)

SC-047-D..... \$1,750.00



See our website for postcranial list and more information.

2.



3.



www.boneclones.com



Bone Clones Osteological Reproductions

APES AND
MANDRILL BABOON

67

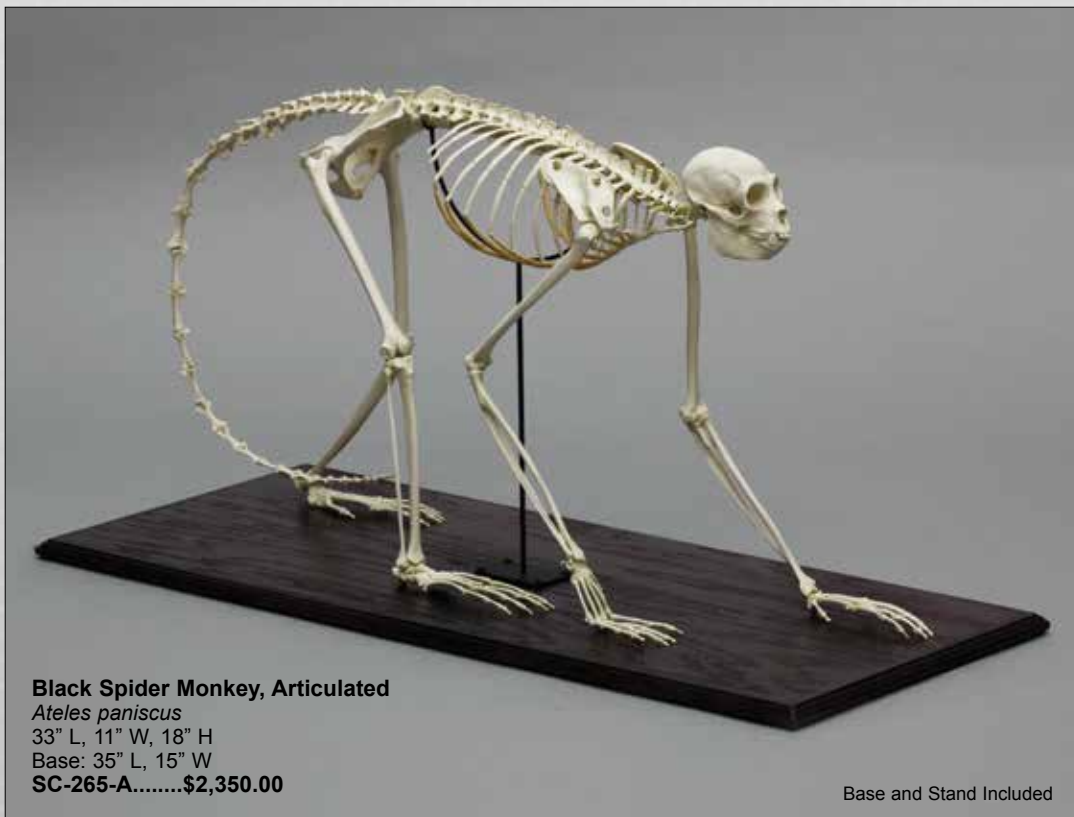
New World Monkey Skeletons



Weeping Capuchin
 4" L, 3" W, 3" H
 BC-263.....\$155.00
Weeping Capuchin
Skeleton, Disarticulated
 SC-263-D.....\$1,750.00



See our website for
 postcranial list and
 more information.



Black Spider Monkey
 4 1/4" L, 2 1/2" W, 3 1/2" H
 BC-265.....\$160.00

Black Spider Monkey
Skeleton, Disarticulated
 SC-265-D.....\$1,725.00



See our website for
 postcranial list and
 more information.

Old World Monkey Skeletons



Vervet Monkey
 4 1/2" L, 3" W, 3" H
BC-069\$164.00

Vervet Monkey
 Skeleton, Disarticulated
SC-069-D.....\$1,750.00



See our website for
 postcranial list and
 more information.



Rhesus Macaque
 5" L, 3 1/2" W, 3 1/2" H
BC-137\$170.00

Rhesus Macaque
 Skeleton, Disarticulated
SC-137-D.....\$1,750.00



See our website for
 postcranial list and
 more information.





Jane Goodall and Chimpanzee "Hand-in-Hand" Life Cast

50% of sales goes
directly to



the Jane Goodall Institute



Jane Goodall and Chimpanzee

"Hand-in-Hand" Life Cast on Base - Limited Edition

Limited edition of 200, with brass plaque hand-signed by Dr. Jane Goodall and individually hand-numbered. Made of bronze-finished resin on a brass stand and resin base. Includes certificate of authenticity.

JG-01.....\$1500.00



Set of 10 Primate Femora

Excellent for comparative studies and discounted when purchased as a set.

KF-001.....\$698.00

A. Human 5-year-old Child

Homo sapiens 9" L

SC-183-F\$50.00

B. Human Male

Homo sapiens 18 ½" L

SC-092-F\$56.00

C. *H. ergaster* KNM-WT 15000

Homo ergaster 16 ¾" L

SC-012-F\$110.00

D. *A. afarensis* "Lucy" Assembled

Australopithecus afarensis 10" L

KO-036-FA\$115.00

E. Bonobo

Pan paniscus 11" L

SC-123-F\$75.00

F. Mandrill Baboon

Mandrillus sphinx 10 ½" L

KO-210-F\$70.00

G. Siamang

Symphalangus syndactylus 8 ¾" L

SC-047-F\$60.00

H. Chimpanzee

Pan troglodytes 11" L

SC-003-F\$70.00

I. Orangutan

Pongo abelii 13" L

SC-002-F\$80.00

J. Gorilla

Gorilla gorilla 15" L

SC-028-F\$90.00

Pelvises and femora also available separately. Visit boneclones.com for more information.



**Spider Monkey
Pelvis and Femur**
Ateles paniscus
SC-265-PF.....\$208.00



**Vervet Monkey
Pelvis and Femur**
Cercopithecus pygerythrus
SC-069-PF.....\$208.00



**Weeping Capuchin
Pelvis and Femur**
Cebus olivaceus
SC-263-PF.....\$208.00



**Rhesus Macaque
Pelvis and Femur**
Macaca mulatta
SC-137-PF.....\$208.00



**Siamang Pelvis
and Femur**
Symphalangus syndactylus
SC-047-PF.....\$208.00



**Mandrill Baboon
Pelvis and Femur**
Mandrillus sphinx
KO-210-PF\$260.00



**Bonobo Pelvis
and Femur**
Pan paniscus
SC-123-PF.....\$253.00



**Chimpanzee Pelvis
and Femur, Male**
Pan troglodytes
SC-003-PF.....\$255.00



**Orangutan Pelvis
and Femur**
Pongo abelii
SC-002-PF.....\$272.00



**Gorilla Pelvis
and Femur**
Gorilla gorilla
SC-028-PF.....\$285.00



Knuckle-Walking Quadruped



Chimpanzee
SC-003-IM\$256.50

Terrestrial Quadruped



Vervet
SC-069-IM\$174.00

Vertical Clinger/Leaper



Indri Lemur
SC-282-IM\$229.00

PRIMATE INTERMEMBRAL SETS

These sets consist of humerus, radius, femur, and tibia of primates for use in calculating forelimb, hindlimb, and long bone indices.

Brachiator

Orangutan

SC-002-IM \$270.00

Terrestrial Quadruped

Mandrill Baboon

SC-010-IM \$252.00

Quadruped

Rhesus Macaque

SC-137-IM \$174.00

Suspensory/Brachiator

Black Spider Monkey

SC-265-IM \$174.00

Knuckle-Walking Quadruped

Gorilla

SC-028-IM \$266.00

Vertical Clinger/Leaper

Senegal Bushbaby with calcaneus

SC-095-IM\$125.00

Arboreal Quadruped



Weeping Capuchin
SC-263-IM\$174.00

Brachiator



Siamang
SC-047-IM\$179.00

Quadruped



Ring-tailed Lemur
SC-096-IM.....\$174.00

Small Arboreal Quadruped & Vertical Clinger/Leaper



Common Marmoset
with calcaneus
SC-097-IM.....\$135.00

Indris, the largest of all modern prosimians, inhabit a small area in the eastern rainforests of Madagascar. With feet best described as prehensile, indri lemurs are characterized as vertical clingers and leapers in the trees. The virtually tail-less indri bounds from branch to branch up to 30 feet with a loaded spring-like motion made possible by the length and strength of its back legs. The length differential between the front and hind limbs is quite apparent in the indri skeleton.

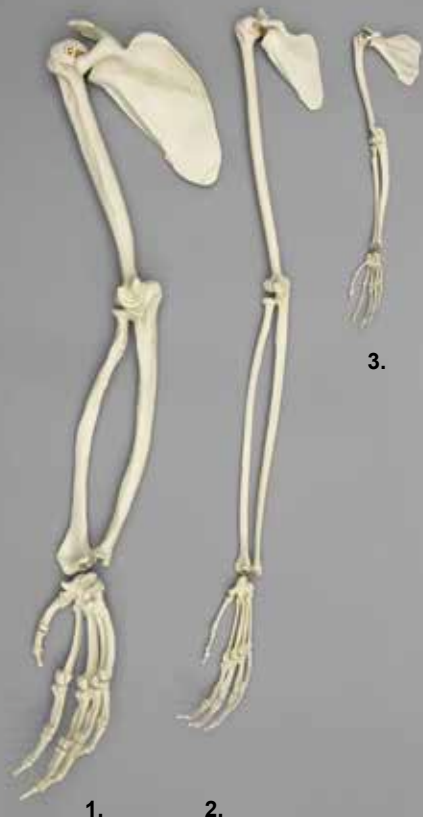


Indri Lemur Skull
Indri indri
4" L, 2 1/2" W, 2 1/2" H
BC-282\$145.00



Indri Lemur Skeleton, Articulated
(Log and Base Included)
12" W x 28" H
SC-282-A..... \$2,900.00

Indri Lemur Skeleton, Disarticulated
SC-282-D..... \$2,400.00



PRIMATE ARM ARTICULATIONS

Bone Clones® primate arm articulations permit the study of how the scapula's shape and attachment to the humerus affect the function and mobility of forelimb use. Their study also furthers understanding of the evolutionary development of primates.

1. Chimpanzee Arm, Articulated

Pan troglodytes

SC-003-67-AS.....\$481.50

2. Siamang Arm, Articulated

Symphalangus syndactylus

SC-047-67-AS.....\$386.00

3. Weeping Capuchin Arm, Articulated

Cebus olivaceus

SC-263-67-AS.....\$386.00

Arm articulations for the following primates are also available:

Orangutan	SC-002-67-AS	\$481.50
Mandrill Baboon	SC-010-67-AS	\$481.50
Gorilla	SC-028-67-AS	\$481.50
Vervet	SC-069-67-AS	\$386.00
Bonobo	SC-123-67-AS	\$481.50
Rhesus Macaque	SC-137-67-AS	\$386.00
Black Spider Monkey.....	SC-265-67-AS	\$386.00
Indri Lemur	SC-282-67-AS	\$427.00





Primate Pectoral Sets: Humerus, Scapula, Clavicle - Set of 3

The locomotor habits of the different groups of primates are reflected in the shape and proportions of the scapula as well as in the degree of rotation displayed by the head of the humerus in the shoulder joint. The clavicle functions as a strut, holding the upper limb away from the trunk.

5-year-old Child	SC-183-HSC	\$150.00
Chimpanzee	SC-003-HSC	\$205.00
Orangutan	SC-002-HSC	\$205.00
Mandrill Baboon	SC-010-HSC	\$205.00
Gorilla	SC-028-HSC	\$205.00
Siamang	SC-047-HSC	\$150.00
Rhesus Macaque	SC-137-HSC	\$150.00
Vervet Monkey	SC-069-HSC	\$150.00
Weeping Capuchin Monkey	SC-263-HSC	\$150.00
Black Spider Monkey	SC-265-HSC	\$150.00

Primate Innominate & Femur Sets

The pelvic girdle is adapted for stability. The ischium, one of three bones that fuse to create the innominate, is especially large in Old World monkeys. The hip, like the shoulder, is a ball-and-socket joint.

Human	SC-211-IF	\$130.00
Orangutan	SC-002-IF	\$185.00
Mandrill Baboon	SC-010-IF	\$185.00
Gorilla	SC-028-IF	\$190.00
Siamang	SC-047-IF	\$135.00
Rhesus Macaque	SC-137-IF	\$135.00
Vervet Monkey	SC-069-IF	\$135.00
Weeping Capuchin Monkey	SC-263-IF	\$135.00
Black Spider Monkey	SC-265-IF	\$135.00



Primate Hand and Foot

Primate hands and feet are available in the following configurations:

- articulated, rigid
- semi-articulated
- disarticulated

The chimpanzee hands shown to the right illustrate the three options. Pricing listed below is for the disarticulated versions.

For additional information and pricing go to:
www.boneclones.com



Chimpanzee Hand,
Disarticulated
Pan troglodytes
KO-303-D\$155.00



Chimpanzee Hand,
Articulated, Rigid
Pan troglodytes
KO-303-A\$150.00



Chimpanzee Hand,
Semi-articulated
Pan troglodytes
SC-003-184-SA..\$125.00

Hand

Human	H-04-F	\$145.00
Orangutan	KO-202-D	\$155.00
Mandrill Baboon	SC-010-24-D	\$155.00
Gorilla	KO-208-D	\$155.00
Siamang	KO-149-D	\$145.00
Rhesus Macaque	SC-137-184-D	\$145.00
Vervet Monkey	SC-069-184-D	\$145.00
Weeping Capuchin Monkey	SC-263-184-D	\$145.00
Black Spider Monkey	SC-265-184-D	\$145.00

Foot

F-04-F	\$145.00
KO-204-D	\$155.00
SC-010-29-D	\$155.00
KO-209-D	\$155.00
KO-148-D	\$145.00
SC-137-185-D	\$145.00
SC-069-185-D	\$145.00
SC-263-185-D	\$145.00
SC-265-185-D	\$145.00

Primate Endocasts and Brains

Cranial endocasts provide a representation of the area inside the cranial cavity, which allows for an estimate of the volume of the brain. They provide the details of the outer surface of the brain, taking into account that the space within the cavity is also filled with soft tissue structures such as blood vessels and nerves. Because endocasts are useful for comparing relative sizes of different areas of the brain, they are instrumental in evolutionary study. We would like to thank Ralph Holloway, Professor of Anthropology at Columbia University, for the opportunity to cast these rare endocasts.



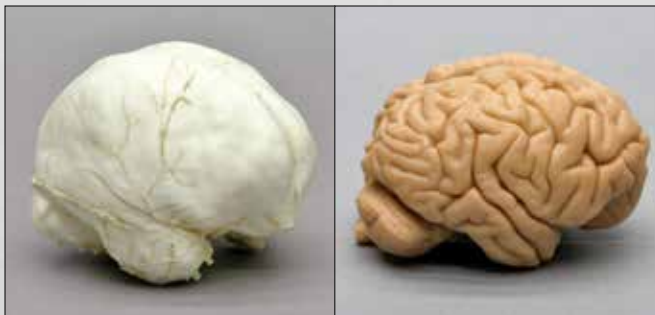
Gorilla, Adult Male
Gorilla gorilla
5" L, 3 3/4" W, 3 1/4" H
KO-229\$139.00

Bonobo, Adult Male
Pan paniscus
4 1/2" L, 3 3/4" W, 3 1/4" H
KO-227\$139.00

Silvery Gibbon, Adult Male
Hylobates moloch
2 3/4" L, 2 3/4" W, 1 3/4" H
KO-228\$139.00

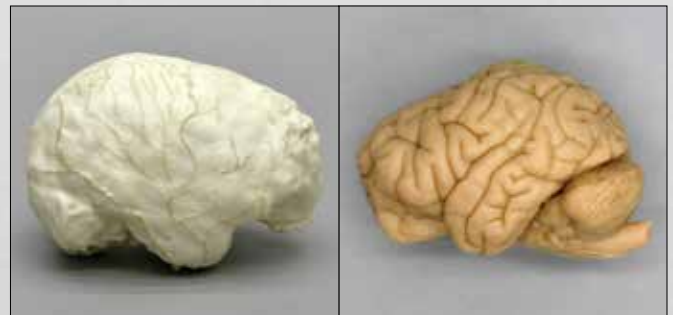
Chimpanzee, Adult Female
Pan troglodytes
4 1/2" L, 3 3/4" W, 3" H
KO-231\$139.00

Siamang, Adult Male
Symphalangus syndactylus
3" L, 2 1/2" W, 2" H
KO-230\$139.00



Orangutan Male, Endocast
Pongo pygmaeus
4 1/2" L, 3 3/4" W, 3 1/4" H
KO-232\$139.00

Orangutan Brain
Pongo pygmaeus
4 1/2" L, 3 1/4" W, 3" H
KO-287\$210.00



Chimpanzee Male, Endocast
Pan troglodytes
4 3/4" L, 3 1/2" W, 3 1/4" H
KO-292-E\$139.00

Chimpanzee Male, Brain
Pan troglodytes
4 1/2" L, 3 1/2" W, 3 1/2" H
KO-292-B\$210.00



We consider it a unique opportunity to cast a chimpanzee skull with the calvarium cut. To also have the associated brain and endocast available offers a rare opportunity to further study this important primate.

Chimpanzee, Male, Calvarium Cut
Pan troglodytes
8" L, 5 1/2" W, 6 1/2" H
BC-292\$295.00



ARTICULATED, RIGID HANDS AND FEET



Human Hand, Adult Male
Homo sapiens
7" L
H-02-M.....\$135.00



Human Foot, Adult Male
Homo sapiens
9" L
F-02-M.....\$135.00



Human Foot, 5-year-old Child
Homo sapiens
4 3/4" L
KO-185.....\$98.00



Human Hand, 5-year-old Child
Homo sapiens
4" L
KO-184.....\$98.00



Bonobo Hand
Pan paniscus
9" L
KO-124-A...\$145.00



Bonobo Foot
Pan paniscus
8" L
KO-125-A...\$145.00



Siamang Hand
Symphalangus syndactylus 6" L
KO-149-A...\$135.00



Siamang Foot
Symphalangus syndactylus 5 3/4" L
KO-148-A...\$135.00



Chimpanzee Hand
Pan troglodytes
10" L
KO-303-A...\$150.00



Chimpanzee Foot
Pan troglodytes
9" L
KO-304-A...\$150.00



Gorilla Hand
Gorilla gorilla
11" L
KO-208-A\$150.00



Gorilla Foot
Gorilla gorilla
13" L
KO-209-A\$150.00



Orangutan Hand
Pongo abelii
13 3/4" L
KO-202-A\$150.00



Orangutan Foot
Pongo abelii
14 1/4" L
KO-204-A\$150.00



1. Gorilla Hand, Left, Male
Gorilla gorilla
 12" L, 6" W
 LC-05..... \$185.00

2. Gorilla Hand, Right, Female
Gorilla gorilla
 10" L
 LC-09..... \$165.00

3. Gorilla Foot, Left, Female
Gorilla gorilla
 10" L, 5 1/2" W
 LC-10..... \$165.00

4. Gorilla Foot, Right, Male
Gorilla gorilla
 12 1/2" L, 6 1/2" W
 LC-06..... \$185.00

5. Orangutan Hand, Left, Male
Pongo abelii
 12 1/2" L, 6" W
 LC-07..... \$185.00

6. Orangutan Hand, Right, Female
Pongo pygmaeus
 9 1/2" L, 4 1/4" W
 LC-11..... \$165.00

7. Orangutan Foot, Left, Female
Pongo pygmaeus
 9" L, 3 1/2" W
 LC-12..... \$165.00

8. Orangutan Foot, Right, Male
Pongo abelii
 12 1/2" L, 6" W
 LC-08..... \$185.00

9. Gibbon Hand, Left
Hylobates lar
 4 1/2" L, 2" W
 LC-13..... \$75.00

10. Gibbon Foot, Right
Hylobates lar
 4 1/2" L, 2" W
 LC-14..... \$75.00

11. Chimpanzee Hand, Right, Male
Pan troglodytes
 8 1/2" L, 4 1/2" W
 LC-23..... \$145.00

12. Chimpanzee Foot, Right, Male
Pan troglodytes
 10" L
 LC-24..... \$145.00

13. Bonobo Hand, Right, Male
Pan paniscus
 8" L, 4 1/2" W
 LC-28..... \$145.00

14. Bonobo Foot, Right, Male
Pan paniscus
 9 1/2" L, 4 1/4" W
 LC-29..... \$145.00



Human Hand Life Cast, Right, Male
Homo sapiens
 7 1/2" L, 4" W
 LC-17.....\$140.00



Skeletal Human Hand Printed from CT Scan
Homo sapiens
 (from same individual as LC-17, above)
 9 1/2" H on stand
 KO-391\$149.00



15. Gorilla Head, Male
Gorilla gorilla
 15 1/4" L, 9 1/2" W, 8" H
 LC-30.....\$160.00

16. Gorilla Head, Female
Gorilla gorilla
 10" L, 8" W, 5" H
 LC-25.....\$145.00

17. Orangutan Head, Male
Pongo abelii
 16 1/2" L, 12" W, 8" H
 LC-26.....\$160.00



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