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Bestimmungsschlüssel für Larvale, Juvenile und Adulte Stadien Mitteleuropäischer Süßwasserfische

Wolfgang Lechthaler & Wolfgang Hauer

2023



Titel: Pisces - Bestimmungsschlüssel für Larvale, Juvenile und Adulte Stadien Mitteleuropäischer Süßwasserfische
Autoren: Wolfgang Lechthaler & Wolfgang Hauer

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Pisces 23 - Produkt Information

Titel

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Autoren

Lechthaler Wolfgang, Hauer Wolfgang

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€ 780,00

Dieses in englischer und deutscher Sprache erhältliche Produkt bietet ein umfangreiches Programm zur Bestimmung von 7 Entwicklungsstadien (5 Larvenstadien plus juveniles und adultes Stadium) mitteleuropäischer Süßwasserfische (Chondrostei, Teleostei). Rund 90 Arten sind darin in tausenden Bildern dokumentiert (ca. 25 Bilder pro Art und Stadium), die aus einer Datenbank geladen und miteinander verglichen werden können. Angaben zur Ökologie, Biologie und Systematik liefern ergänzende Information über diese für die Klassifizierung stehender und fließender Gewässer wichtige Wirbeltiergruppe.

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Programm-Oberfläche: D-Key, Morphologie

Eutaxa - Pisces 23 - [D-Key - Larva]

Application Groups Ecology Info Tools Windows Help

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Search Page: yolk sac present absent

Dichotomous Key Species Profile Species Description

Pectoral fin (arrow), large (as big as the head) with clearly discernible rays.

Dorsal fin and anal fin nearly as long as abdomen; with strong, well discernible rays; fin-folds rudimentary.

Oil drops consisting of a single, large drop (arrow), usually placed in the anterior half of the yolk sac.

Cottidae: *Cottus gobio*

Various families

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Eutaxa - Pisces 23 - [D-Key - Larva]

Application Groups Ecology Info Tools Windows Help

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Search Page: Chondrostei - Teleostei

Dichotomous Key Species Profile Species Description

Outline of nostrum stipitate (image shows head in dorsal view).

Bright colour of dorsal, lateral and ventral body scales clearly contrasting with the dark colour of the surrounding skin.

Outline of nostrum triangular (image shows head in dorsal view).

Body scales and skin of nostral collet.

Acanthoclinus stellatus

Acanthoclinus ruthenus

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Eutaxa - Pisces 23 - [D-Key - Adult]

Application Groups Ecology Info Tools Windows Help

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Search Page: Cyprinodonts - Chondrostei - Teleostei

Dichotomous Key Species Profile Species Description

Mouth bluntly rounded; mouth in a terminal position.

Body often with additional dark vertical bands; small species, reaching a body length of 8 to 20 cm.

Dorsal fin situated opposite to anus (arrow).

Lateral line more linear and not differing in colour.

Phoxinus phoxinus

Tetragonopterus souffia

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Eutaxa - Pisces 23 - [Morphology - Larva]

Application Groups Ecology Info Tools Windows Help

Images Overlay On/Off Raster List of Abbreviations Search Details

Species Habitat anterior body abdomen eggs

head fronto-lateral (Sundaeidae)

anterior body lateral (Umbridae)

anterior body lateral (Percidae)

yolk sac lateral (Gymnotidae)

anterior body dorsal (Tetraodontidae)

anterior body ventral (Tetraodontidae)

anterior body dorsal (Cobitidae)

anterior body lateral (Leucosidae)

anterior body dorsal (Tincidae)

head lateral (Percidae)

yolk sac lateral (Salmonidae: Salmoninae)

V3.0.33

Eutaxa - Pisces 23 - [Morphology - Juvenile]

Application Groups Ecology Info Tools Windows Help

Images Overlay On/Off Raster List of Abbreviations Search Details

Species Habitat anterior body abdomen

<img alt="A collection of morphological diagrams and photographs of fish juveniles. It includes lateral and ventral views of various species, with anatomical features labeled with abbreviations like pect, 1st scut, d'abcl, pale, barb, nose, eye, co, scal, v.1st, v.2nd, pectv, 1st, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, 10th, 11th, 12th, 13th, 14th, 15th, 16th, 17th, 18th, 19th, 20th, 21st, 22nd, 23rd, 24th, 25th, 26th, 27th, 28th, 29th, 30th, 31st, 32nd, 33rd, 34th, 35th, 36th, 37th, 38th, 39th, 40th, 41st, 42nd, 43rd, 44th, 45th, 46th, 47th, 48th, 49th, 50th, 51st, 52nd, 53rd, 54th, 55th, 56th, 57th, 58th, 59th, 60th, 61st, 62nd, 63rd, 64th, 65th, 66th, 67th, 68th, 69th, 70th, 71st, 72nd, 73rd, 74th, 75th, 76th, 77th, 78th, 79th, 80th, 81st, 82nd, 83rd, 84th, 85th, 86th, 87th, 88th, 89th, 90th, 91st, 92nd, 93rd, 94th, 95th, 96th, 97th, 98th, 99th, 100th, 101st, 102nd, 103rd, 104th, 105th, 106th, 107th, 108th, 109th, 110th, 111st, 112nd, 113rd, 114th, 115th, 116th, 117th, 118th, 119th, 120th, 121st, 122nd, 123rd, 124th, 125th, 126th, 127th, 128th, 129th, 130th, 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Programm-Oberfläche: Galerie, Query Key

A screenshot of the Europe-Fineweb 23 software interface. The top menu bar includes 'File', 'Edit', 'Groups', 'Help', 'Ecology', 'Info', 'Tools', 'Windows', and 'Help'. Below the menu is a toolbar with icons for 'Search', 'Clear', 'Print', and 'Images'. A left sidebar lists 'Species Name' and 'Scientific Name' for various fish species, such as Acipenser baerii, Acipenser oxyrinchus, and Salmon trutta fario. At the bottom of this sidebar are buttons for 'Sort Order Left by' (Alphabetical, Logical, OK File, OK Matrix). The main area displays nine lateral habitus images of fish, each with its scientific name below it: Acipenser baerii I - habitus lateral DF, Acipenser oxyrinchus I - habitus lateral DF, Salmon trutta fario I - habitus lateral DF, Coregonus learetinus I - habitus lateral DF, Fennoscia fennica I - habitus lateral DF, Barbus barbus I - habitus lateral DF, Ammodytes marinus I - habitus lateral DF, Gymnophthalmus cernuus I - habitus lateral DF, and Huso huso I - habitus lateral DF. Each image has a small thumbnail at the top left and a zoom icon at the top right.

The screenshot shows the FishBase software interface with the following details:

- Title Bar:** Entries, Groups, Tools, Salvelinus namaycush III, Ecology, Info, Tools, Windows, Help.
- Toolbar:** Search, Previous, Next, Last, Clear, Footer, Images.
- Left Panel:** Species Selector (Salvelinus), Filter by: All (selected), Logical, OR titles, OK Matrix.
- Selvelinus namaycush III:** Detail Name, List, QR.
- Morphological Details:** A vertical list of anatomical parts with checkboxes:
 - habitus lateral
 - habitus lateral (f)
 - habitus dorsal
 - abdomen ventral
 - anterior body dorsal
 - anterior body ventral
 - base dorsal
 - head dorsal
 - head frontal
 - head ventral
 - abdomen dorsal
 - abdomen lateral
 - abdomen ventral (f)
 - pectoral dorsal
 - pectoral ventral
 - trunk lateral
 - head dorsal
 - fin arrangement
 - dorsal fin
 - pectoral fin
 - pelvic fin
 - anal fin
 - caudal fin
- Image Grid:** The main area displays 12 images of the fish from various angles:
 - Compare Species (Manual) and Compare Species (Auto) buttons.
 - Species Profile (Manual) and Species Profile (Auto) buttons.
 - Compare Images button.
 - Archive button.
 - Images, List, QR buttons.
 - Salvelinus namaycush III - habitus lateral (f), Salvelinus namaycush III - abdomen lateral (f), Salvelinus namaycush III - anterior body dorsal.
 - Salvelinus namaycush III - head dorsal, Salvelinus namaycush III - head lateral, Salvelinus namaycush III - head frontal.
 - Salvelinus namaycush III - dorsal fin, Salvelinus namaycush III - anal fin, Salvelinus namaycush III - caudal fin.
- Bottom Bar:** Sort Order (Left to Right): All (selected), Logical, OK Matrix.
- Version:** V1.0.13.

The screenshot shows the 'Species Profile (Adult)' tab for the species 'Habenula'. The main area displays a series of nine images of the fish from various angles: lateral DF, dorsal, anterior body dorsal, ventral, head dorsal, head ventral, abdominal lateral DF, dorsal fin, and caudal fin. On the left, a sidebar lists other species profiles: *Habenula*, *Habenula altirostris*, *Habenula lateralis*, *Habenula dorsal*, *Habenula ventral*, *Habenula anterior body dorsal*, and *Habenula posterior body dorsal*. At the bottom, there are two rows of filter buttons for 'Sort Order' (Alphabetical, Logical), 'DF', 'QR', and 'Matrix'.

The screenshot shows the Eutech - Fiscer 23 software interface. At the top, there's a menu bar with 'File', 'Edit', 'View', 'Groups', 'Print', 'Help', 'Ecology', 'Info', 'Tools', 'Windows', and 'Help'. Below the menu is a toolbar with icons for 'Refresh Data', 'Select Data...', 'Sort Order By...', 'Compare Species (Manual)', 'Compare Species (Auto)', 'Species Profile (Manual)', 'Species Profile (Auto)', 'Compare Images', and 'About'. On the left, there's a sidebar titled 'Images' containing a list of fish species with small thumbnail previews: *Selvatherin spinicauda*, *Selvatherin fontinalis*, *Selvatherin fontinalis cumbra*, *Selvatherin nemoralis*, and *Selvatherin umbra*. At the bottom of the sidebar are buttons for 'Sort Order Left to Right', 'OK', 'OK (Automatic)', and 'OK (Matrix)'. The main area displays four large images of fish with labels below them: 'Lota lota A - head lateral' (a large, mottled brown fish), 'Gymnocephalus cernuus A - head lateral' (a smaller, more slender fish with dark spots), 'Cottus gobio A - head lateral' (a large, light-colored fish with dark spots), and 'Romanogobio uranoscopus A - head lateral' (a long, thin fish with a light body and darker markings). Each image has its own set of comparison and profile buttons at the top.

Eufroce - Pages 23 - (Query Key - Adults)	
Application Groups G Key Key Index Morphology Ecology Info Tools Windows Help	
Review Query Refresh Results Images	
<input type="checkbox"/> Head <input type="checkbox"/> Body <input checked="" type="checkbox"/> Fin <input type="checkbox"/> Ecology <input type="checkbox"/> Vertebral <input type="checkbox"/> Morphology	<input type="checkbox"/> Anal fin <input type="checkbox"/> present <input type="checkbox"/> absent
Anal fin: hind margin <input type="checkbox"/> convex <input type="checkbox"/> straight or not clearly discernible <input type="checkbox"/> concave	
Dorsal fin shape <input type="checkbox"/> rounded, convex <input type="checkbox"/> truncate; emarginate <input type="checkbox"/> falcate <input type="checkbox"/> heterocercal, tongue-shaped	
Dorsal fin - anal fin length ratio <input type="checkbox"/> dorsal and anal fin subequal in length <input type="checkbox"/> dorsal fin no more than twice the length of anal fin <input type="checkbox"/> anal fin more than twice the length of dorsal fin <input type="checkbox"/> anal fin no more than twice the length of dorsal fin <input type="checkbox"/> anal fin more than twice the length of anal fin	
Dorsal fin position of anterior spine <input type="checkbox"/> first dorsal ray meeting anterior to first pectoral ray <input type="checkbox"/> first dorsal ray meeting posterior to first pectoral ray <input type="checkbox"/> first dorsal ray meeting posterior to first and anal fin <input type="checkbox"/> first dorsal ray meeting anterior to first and ray (girdle first absent) <input type="checkbox"/> first dorsal ray meeting anterior to first anal fin <input type="checkbox"/> first dorsal ray meeting posterior to first anal fin	
Dorsal fin shape <input type="checkbox"/> short, consisting of oval rays <input type="checkbox"/> long and not constricted, consisting of soft rays <input type="checkbox"/> long and medially constricted, consisting of anterior spinous and posterior soft rays <input type="checkbox"/> long and divided, consisting of two distinct separate fins; anterior fins with spinous or soft	
Pectoral fins <input type="checkbox"/> pectoral fins fused to a single ventral fin <input type="checkbox"/> pectoral fins absent <input type="checkbox"/> pectoral fins separated and thorax-like <input type="checkbox"/> pectoral fins separated, with branched rays	
Ventral fin pattern <input type="checkbox"/> uniform dark or olivey <input type="checkbox"/> mottled <input type="checkbox"/> reddish <input type="checkbox"/> various mottles/patterns <input type="checkbox"/> aposematic (red and black) <input type="checkbox"/> different	

Programm-Oberfläche: Galerie – Entwicklungsstadien

Eutaxa - Pisces 23 - [Gallery - Table I-V]

Application Groups Gallery Ecology Info Tools Windows Help

Refresh Data First Previous Next Last Clear Raster Images

Select Detail - Sort Order by: Alphabetical Logical
 OK Hits OK Matrix

habituation lateral I-V

Images List

Selvinius namaycush
Selvinius umbra
Coregonus lavaretus

Sort Order Lists by: Alphabetical Logical
 OK Hits OK Matrix

Compare Species (Manual) Compare Species (Auto) Species Profile (Manual) Species Profile (Auto) Compare Images Archive

Eutaxa - Pisces 23 - [Gallery - Table I-Juvenile]

Application Groups Gallery Ecology Info Tools Windows Help

Refresh Data First Previous Next Last Clear Raster Images

Select Detail - Sort Order by: Alphabetical Logical
 OK Hits OK Matrix

habituation lateral I-Juvenile

Images List

Barbus barbus
Carassius carassius
Carassius gibelio

Compare Species (Manual) Compare Species (Auto) Species Profile (Manual) Species Profile (Auto) Compare Images Archive

Eutaxa - Pisces 23 - [Gallery - Table I-Adult]

Application Groups Gallery Ecology Info Tools Windows Help

Refresh Data First Previous Next Last Clear Raster Images

Select Detail - Sort Order by: Alphabetical Logical
 OK Hits OK Matrix

habituation lateral I-Adult

Species Name

Abramis brama
Acipenser baerii
Acipenser gueldenstaedtii
Acipenserstellatus
Acipenserstellatus
Alburnus bipunctatus
Alburnus alburnus
Alburnusmento
Anarhichas ocellatus
Bekk gymnotrichelus
Barbusbarbus
Barbusbarbus
Carassiuscarassius
Carassiusgibelio
Chondrostomareissii
Coregonuslavaretus
Cottusgobio
Cyprinuscarpio
Dace
Gasterosteusaculeatus
Gobiusgobio
Gymnophthalmuscerurus
Huchohucho
Huso
Leptobarbusholoxanthus
Leuciscusdanilewskii
Leuciscusleuciscus
Lota lota
Mugilcuremalesiosquamus
Oncorhynchusmykiss
Percaflavescens
Phoxinusphoxinus
Proterorhinussemipinnatus
Pseudobarbusparvus
Pungitiuspungitius
Rhodeusamarus
Romancangobiusvladykovii
Rutilusfrisii
Rutilusrutilus
Salmo trutta f. fario
Salmo trutta f. lacustris

Sort Order Lists by: Alphabetical Logical
 OK Hits OK Matrix

Compare Species (Manual) Compare Species (Auto) Species Profile (Manual) Species Profile (Auto) Compare Images Archive

Liste der im Schlüssel behandelten Arten

Unterklasse Chondrostei

Familie Acipenseridae

- Acipenser baerii* Brandt, 1869
Acipenser gueldenstaedtii Brandt & Ratzeb., 1833
Acipenser nudiventris Lovetzký, 1828
Acipenser oxyrinchus Mitchell, 1815
Acipenser ruthenus Linnaeus, 1758
Acipenserstellatus Pallas, 1771
Huso huso Linnaeus, 1758

Unterklasse Teleostei

Familie Acheilognathidae

- Rhodeus amarus* (Bloch, 1782)

Familie Anguillidae

- Anguilla anguilla* Linnaeus, 1758

Familie Bagridae

- Tachysurus fulvidraco* (Richardson, 1846)

Familie Centrarchidae

- Lepomis gibbosus* (Linnaeus, 1758)
Micropterus salmoides (Lacépède, 1802)

Familie Cobitidae

- Cobitis elongatoides* Băcescu & Mayer, 1969
Cobitis taenia Linnaeus, 1758
Misgurnus fossilis (Linnaeus, 1758)
Misgurnus anguillicaudatus (Cantor, 1842)
Sabanejewia balcanica (S. L. Karaman, 1922)

Familie Cottidae

- Cottus gobio* Linnaeus, 1758

Familie Cyprinidae

- Barbus balcanicus* Kotlík et al., 2002
Barbus barbus (Linnaeus, 1758)
Carassius carassius (Linnaeus, 1758)
Carassius gibelio (Bloch, 1782)
Cyprinus carpio Linnaeus, 1758

Familie Esocidae

- Esox lucius* Linnaeus, 1758

Familie Gasterosteidae

- Gasterosteus aculeatus* Linnaeus, 1758
Pungitius pungitius (Linnaeus, 1758)

Familie Gobiidae

- Babka gymnotrachelus* (Kessler, 1857)
Neogobius fluviatilis (Pallas, 1814)
Neogobius melanostomus (Pallas, 1814)
Ponticola kessleri (Günther, 1861)
Proterorhinus semilunaris (Heckel, 1837)

Familie Gobionidae

- Gobio gobio* (Linnaeus, 1758)
Gobio obtusirostris Valenciennes, 1842
Pseudorasbora parva (Temminck & Schleg., 1846)
Romanogobio carpathorossicus (Vladykov, 1925)
Romanogobio skywalkeri Friedrich et al., 2018
Romanogobio uranoscopus (Agassiz, 1828)
Romanogobio vladykovi (Fang, 1943)

Familie Ictaluridae

- Ameiurus melas* (Rafinesque, 1820)
Ameiurus nebulosus (Lesueur, 1819)

Familie Leuciscidae

- Abramis brama* (Linnaeus, 1758)
Alburnoides bipunctatus (Bloch, 1782)
Alburnus alburnus (Linnaeus, 1758)
Alburnus mento (Heckel, 1837)
Aspius aspius (Linnaeus, 1758)
Ballerus ballerus (Linnaeus, 1758)
Ballerus sapa (Pallas, 1814)
Blicca bjoerkna (Linnaeus, 1758)
Chondrostoma nasus (Linnaeus, 1758)
Leucaspis delineatus (Linnaeus, 1758)
Leuciscus idus (Linnaeus, 1758)
Leuciscus leuciscus (Linnaeus, 1758)
Pelecus cultratus (Linnaeus, 1758)
Phoxinus phoxinus (Linnaeus, 1758)
Rutilus meidingeri (Heckel, 1851)
Rutilus pigus (Lacépède, 1803)
Rutilus rutilus (Linnaeus, 1758)
Scardinius erythrophthalmus (Linnaeus, 1758)
Squalius cephalus (Linnaeus, 1758)
Telestes souffia (Risso, 1826)
Vimba vimba (Linnaeus, 1758)

Familie Lotidae

- Lota lota* (Linnaeus, 1758)

Familie Nemacheilidae

- Barbatula barbatula* (Linnaeus, 1758)

Familie Odontobutidae

- Perccottus glenii* Dybowski, 1877

Familie Percidae

Gymnocephalus baloni Holčík & Hensel, 1974
Gymnocephalus cernua (Linnaeus, 1758)
Gymnocephalus schraetser (Linnaeus, 1758)
Perca fluviatilis Linnaeus, 1758
Sander lucioperca (Linnaeus, 1758)
Sander volgensis (Gmelin, 1789)
Zingel streber (Siebold, 1863)
Zingel zingel (Linnaeus, 1758)

Familie Poeciliidae

Gambusia affinis (Baird & Girard, 1853)
Gambusia holbrooki Girard, 1859
Poecilia reticulata Peters, 1859

Familie Salmonidae

Coregonus lavaretus Linnaeus, 1758
Hucho hucho (Linnaeus, 1758)
Oncorhynchus mykiss (Walbaum, 1792)
Salmo trutta f. fario Linnaeus, 1758
Salmo trutta f. lacustris Linnaeus, 1758
Salmo trutta x Salvelinus fontinalis
Salvelinus alpinus (Linnaeus, 1758)
Salvelinus fontinalis (Mitchill, 1814)
Salvelinus fontinalis x S. umbla
Salvelinus namaycush (Walbaum, 1792)
Salvelinus umbla (Linnaeus, 1758)
Thymallus thymallus (Linnaeus, 1758)

Familie Siluridae

Silurus glanis Linnaeus, 1758

Familie Umbridae

Umbra krameri Walbaum, 1792
Umbra pygmaea (DeKay, 1842)

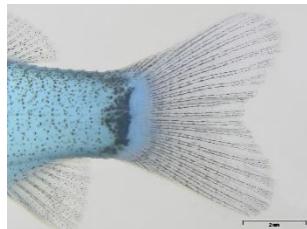


Bild-Dokumentation der Entwicklungsstadien (Larven 1-5, Juvenile und Adulte) pro Art

Arten	L1	L2	L3	L4	L5	Juv	Adult
<i>Abramis brama</i>	+	+	+	+	+	+	+
<i>Acipenser baerii</i>	+	+	+	+	+	+	+
<i>Acipenser gueldenstaedtii</i>	+	+	+	+	+	+	+
<i>Acipenser nudipectoralis</i>							+
<i>Acipenser oxyrinchus</i>	+	+	+	+	+		+
<i>Acipenser ruthenus</i>	+	+	+	+	+	+	+
<i>Acipenserstellatus</i>	+	+	+	+	+	+	+
<i>Acipenser sturio</i>							
<i>Alburnoides bipunctatus</i>	+	+	+	+	+	+	+
<i>Alburnus alburnus</i>	+	+	+	+	+	+	+
<i>Alburnus mento</i>	+	+	+	+	+	+	+
<i>Ameiurus melas</i>							+
<i>Ameiurus nebulosus</i>	+	+	+	+	+	+	+
<i>Anguilla anguilla</i>						(+)	+
<i>Aspius aspius</i>		+	+			+	+
<i>Babka gymnotrachelus</i>	+	+	+	+	+	+	+
<i>Ballerus ballerus</i>							+
<i>Ballerus sapa</i>					+		+
<i>Barbatula barbatula</i>	+	+	+	+	+	+	+
<i>Barbus balcanicus</i>							+
<i>Barbus barbus</i>	(+)	(+)	(+)	(+)	(+)	+	+
<i>Blicca bjoerkna</i>							+
<i>Carassius carassius</i>	+	+	+	+	+	+	+
<i>Carassius gibelio</i>	+	+	+	+	+	+	+
<i>Chondrostoma nasus</i>	+	+	+	+	+	+	+
<i>Cobitis elongatoides/taenia</i>	+	+	+	+			+
<i>Coregonus lavaretus</i>	+	+	+	+	+	+	+
<i>Cottus gobio</i>	+	+	+	+	+	+	+
<i>Ctenopharyngodon idella</i>						+	+
<i>Cyprinus carpio</i>	+	+	+	+	+	+	+
<i>Esox lucius</i>	+	+	+	+	+	+	+
<i>Gambusia affinis/holbrooki</i>					+	+	+
<i>Gasterosteus aculeatus</i>	+	+	+	+	+	+	+
<i>Gobio gobio/obtusirostris</i>	+	+	+	+	+	+	+
<i>Gymnocephalus baloni</i>							+
<i>Gymnocephalus cernua</i>	+	+	+	+	+	+	+
<i>Gymnocephalus schraetser</i>	(+)					+	+
<i>Hucho hucho</i>	+	+	+	+	+	+	+
<i>Huso huso</i>	+	+	+	+	+	+	+
<i>Hypophthalmichthys molitrix</i>						+	+
<i>Hypophthalmichthys nobilis</i>						+	+
<i>Lepomis gibbosus</i>	+	+	+	+	+	+	+
<i>Leucaspis delineatus</i>	+	+	+	+	+	+	+
<i>Leuciscus idus</i>						+	+
<i>Leuciscus leuciscus</i>	+	+	+	+	+	+	+

Arten	L1	L2	L3	L4	L5	Juv	Adult
<i>Lota lota</i>	+	+	+	+	+	+	+
<i>Micropterus salmoides</i>						+	+
<i>Misgurnus anguillicaudatus</i>							+
<i>Misgurnus fossilis</i>	+	+	+	+	+		+
<i>Mylopharyngodon piceus</i>							+
<i>Neogobius fluviatilis</i>							+
<i>Neogobius melanostomus</i>		+	+	+	+	+	+
<i>Oncorhynchus mykiss</i>	+	+	+	+	+	+	+
<i>Pelecus cultratus</i>							+
<i>Perca fluviatilis</i>	+	+	+	+	+	+	+
<i>Percottus glenii</i>						(+)	+
<i>Phoxinus phoxinus</i>	+	+	+	+	+	+	+
<i>Poecilia reticulata</i>					+	+	+
<i>Ponticola kessleri</i>				+	+	+	+
<i>Proterorhinus semilunaris</i>	+	+	+	+	+	+	+
<i>Pseudorasbora parva</i>	+	+	+	+	+	+	+
<i>Pungitius pungitius</i>	+	+	+	+	+	+	+
<i>Rhodeus amarus</i>	+	+	+	+	+	+	+
<i>Romanogobio carpathorossicus</i>							+
<i>Romanogobio skywalkeri</i>							+
<i>Romanogobio uranoscopus</i>							+
<i>Romanogobio vladykovi</i>	+	+	+	+	+	+	+
<i>Rutilus meidingeri</i>	+	+	+	+	+	+	+
<i>Rutilus pigus</i>	+	+	+	+	+	+	+
<i>Rutilus rutilus</i>	+	+	+	+	+	+	+
<i>Sabanejewia balcanica</i>							+
<i>Salmo trutta f. fario</i>	+	+	+	+	+	+	+
<i>Salmo trutta f. lacustris</i>	+	+	+	+	+	+	+
<i>Salmo trutta x Salvelinus fontinalis</i>	+	+				+	+
<i>Salvelinus alpinus</i>							+
<i>Salvelinus fontinalis</i>	+	+	+	+	+	+	+
<i>Salvelinus fontinalis x Salvelinus umbla</i>	+	+					+
<i>Salvelinus namaycush</i>	+	+	+	+	+	+	+
<i>Salvelinus umbla</i>	+	+	+	+	+	+	+
<i>Sander lucioperca</i>	+	+	+	+	+	+	+
<i>Sander volgensis</i>							+
<i>Scardinius erythrophthalmus</i>	+	+	+	+	+	+	+
<i>Silurus glanis</i>	+	+	+	+	+	+	+
<i>Squalius cephalus</i>		+	+	+	+	+	+
<i>Tachysurus fulvidraco</i>						(+)	+
<i>Telestes souffia</i>	+	+	+	+	+	+	+
<i>Thymallus thymallus</i>	+	+	+	+	+	+	+
<i>Tinca tinca</i>	+	+	+	+	+	+	+
<i>Umbra krameri</i>	+	+	+	+	+	+	+
<i>Umbra pygmaea</i>	+	+	+	+	+	+	+
<i>Vimba vimba</i>	+	+	+	+	+	+	+
<i>Zingel streber</i>	+	+	+	+	+	+	+
<i>Zingel zingel</i>	(+)		(+)			+	+