

Supplementary table S1. Oligonucleotides used for RT-PCR, qPCR, RACE-PCR and ISH.

Gene	Label	5'-3'sequence
Myoglobin	Cpi_Mb_for	TCTGGGCGAAAGTGGAAC
	Cpi_Mb_rev	ACCGAACTCCTTGTACTTGC
	Cpi_Mb_qPCR_for	ATAATCAGACTCTTTCAGGTTTCATCCCGAGACC
	Cpi_Mb_qPCR_rev	TGGTGCCGTGTTTCTTCACTTCTTTCG
	Psi_Mb_for	GGAAGTTATGATCAGGCTCTTTCAGGTTAC
	Psi_Mb_rev	TTCATCTGAGCTCTTCATCTCATCCGCC
Neuroglobin	Cpi_Ngb_for	GATTATCCAGCACACAACAGGC
	Cpi_Ngb_rev	GCTTTCACCACGGAACCATAC
	Cpi_Ngb_qPCR_for	GGCATCGTCTTGTTTACCAGGTTGTTTGATC
	Cpi_Ngb_qPCR_rev	GATGAGAGGCACTCCTGAGGGCTG
	Psi_Ngb_for	CCTGGATCACATTAGGAAGGTGATGCTTG
	Psi_Ngb_rev	CCCCAACTGCCTGGTGTTCCTTGC
	Psi_Ngb_ISH_for	ATGGAGAGTGGAAGATTATCCAGC
	Psi_Ngb_ISH_rev	CTATTCCCCTCTTTACGTGCA
Cytoglobin	Cpi_Cygb_for	TTGAGAGATGGGAAAGGAGCG
	Cpi_Cygb_rev	GGTGTAGATGAGGCTCTTC
	Cpi_Cygb_qPCR_for	ACTCCGAAAAGGTCTCATCTGTTTTGGC
	Cpi_Cygb_qPCR_rev	GGTGAAGAACTTGAAGTAGACAGGCTCCA
	Psi_Cygb_for	CACCGTAGTGGAGAACATCAATGACTCC
	Psi_Cygb_rev	GCCGGTGAAGAACTTGAAGTAGACAGG
Globin E	Cpi_GbE_for	CCTGGGAGAAGATGTATGCC
	Cpi_GbE_rev	GCAGATTTTCGTTGGTCACTT
	Cpi_GbE_qPCR_for	ACTGATGCTTTCCTTGGGATTGTGAACC
	Cpi_GbE_qPCR_rev	TCACAGATTATCCTAAAGTTCTTGGGGTCAACC
	Psi_GbE_for	CTGTGCTGGTCAAGATGTTTACAGAACACC
	Psi_GbE_rev	CCATGACTCCTGATCTGATCTGACTGTTCC

	Psi_GbE_ISH_for	ATGGCGTTCTCTGAAGCAGAA
	Psi_GbE_ISH_rev	CCAGCCAGCTTCTTTATAGGCA
Globin X	Cpi_GbX_for	ATGGGGTGCCTCTGTCTG
	Cpi_GbX_rev	CTGCTCCCTACCTGCCAGG
	Cpi_GbX_qPCR_for	GCCTGAGGGTGATGTCCTTCATTGA
	Cpi_GbX_qPCR_rev	CTTGGGAGGGGCGTTGTATCTGTAG
	Psi_GbX_for	CCTTCATCGAGAAAAGCGTGGCCC
	Psi_GbX_rev	GCCAACGTAATCATAGTACTTGGGAGG
Globin Y	Cpi_GbY_for	CACATCTGGGCAAAGTTATT
	Cpi_GbY_rev	G TTCAGAGAGCAGACCAAA
	Cpi_GbY_qPCR_for	TGAATTTCCAGAGCATGTTTCAGGTGATCC
	Cpi_GbY_qPCR_rev	CAGACCAAAGAGCTTCTCCCAGGAG
	Psi_GbY_for	GCATACTTCAAGAGCATCCCGACTGAAGG
	Psi_GbY_rev	CAACCATGACTCTCCGCCCATGG
Hemoglobin	Psi_HbK_5'rev	CAGGTTGTAGGCATGCAGGTCG
	Psi_HbK_5'rev_nested	CGTCTTGCTGAGGGTGTCCATGTG
	Psi_HbA_3'for	CCACCAAGACCTACTTCGCC
	Psi_HbA_3'for_nested	GGCAAGAAGGTGCTGAGCG

Supplementary table S2. Globin genes of the Chinese softshell turtle.

Globin genes	Accession number	Length (aa)/exons	Genomic location
Adgb	XM_006111304.1	1450/31	JH205385: 482872 - 698835
Ngb	XM_006117796.1	160/4	JH207292: 8582005-8577248
GbX	not annotated	218/5	JH211032: 890205-873421
Cygb	XM_006136486.1	179/3	JH212636:3508930-3478787
Mb	ENSPSIG00000008494	154/3	JH224648: 224623-229563
GbE	XM_006127809	151/3	JH209952: 146997- 153094
HbZ	ENSPSIG00000012161	142/3	JH209131: 354922-352105
HbK	ENSPSIG00000012157, not correctly annotated	141/3	JH209131: 342037-345748 (1 st + 2 nd exon), sequence was completed by RACE.
HbA	ENSPSIG00000011874; ENSPSIG00000011856	142/3	JH209131: 336263-337115 (1 st + 2 nd exon); 329346-330180 (1 st + 2 nd exon), sequences were each completed by RACE.
HbB1	ENSPSIG00000004624	147/3	JH210967: 92793-94274
HbB2	ENSPSIG00000005077	147/3	JH210967: 107525-108943
GbY	XM_006124603.1	154/3	JH209131:310883 - 315182

Supplementary table S3. Globin genes of the western painted turtle.

Globin genes	Accession number (GenBank)	Length (aa)/exons	Genomic location (ENSEMBLE)
Adgb	XM_005280422.1	1596/38	Chr 3: 42171821- 42391301 [Chrysemys_picta_bellii-3.0.3 (GCF_000241765.3)]
	XM_005280423.1		
	XM_005280424.1		
	XM_005280425.1		
	XM_005280426.1		
Ngb	XM_005301643.2	160/4	JH584728: 4213166- 4208484
GbX	XM_005293187.1	222/5	JH584610:1442038- 1451887
Cygb	XM_005297540.2	179/3	JH584685: 4299504- 4270945
Mb	XM_005300826.2	154/3	JH584171: 6110702- 6094271
GbE	XM_005293060.2	151/3	JH584608 :826847- 830855
HbZ	XM_005306148.1, XM_008162535.1 (transcripts are identical)	142/3	JH584800: 1628402- 1631333
HbK	XM_005306157.1	141/3	JH584800: 1638554- 1639378
HbA	XM_005306158.1	142/3	JH584800: 1645419- 1646202
HbB1	XM_005290010.1	147/3	JH584561: 1328654- 1326746
HbB2	XM_005290009.1	147/3	JH584561: 1316355- 1314155
HbG	XM_005290008.1	147/3	JH584561: 1310563- 1308793
GbY	XM_005306194.2	154/3	JH584800: 1665335- 1660554

Supplementary table S4. Identities and similarities of the turtle globin proteins, and their orthologs in the chicken.

Identity [%]/ Similarity [%]		Western painted turtle													Chicken
		HbZ	HbK	HbA	HbB1	HbB2	HbG	Mb	Ngb	Cygb	GbE	GbY	GbX	Adgb	
Chinese softshell turtle	HbZ	91.5/ 94.4													81.7/ 88.0
	HbK		82.3/ 89.4												68.8/ 83.0
	HbA			76.1/ 86.6											69.0/ 82.4
	HbB1				90.5/ 98.0										85.0/ 93.9
	HbB2					81.0/ 89.1	-								75.5/ 86.4
	Mb							88.3/ 92.9							76.6/ 84.4
	Ngb								92.5/ 96.9						76.2/ 88.8
	Cygb									97.8/ 98.9					84.4/ 91.6
	GbE										96.0/ 98.7				85.4/ 94.0
	GbY											80.5/ 91.6			-
	GbX												82.0/ 90.1		-
	Adgb													88.3/ 92.6	62.9/ 74.9
	Chicken		83.1/ 90.1	72.3/ 86.5	76.1/ 83.1	88.4/ 96.0	80.3/ 91.8	-	75.3/ 85.7	78.1/ 88.8	84.9/ 92.2	85.4/ 92.7	-	-	64.6/ 76.7

Supplementary table S5. List of globin sequences used for phylogenetic analyses (fig. 3 and Supplementary fig. S1). EMBL/GenBank/ENSEMBL accession numbers of nucleotides are given. Asterisks denote protein accession numbers.

Globin	Label	Species	Common name	Accession number
GbX	goldfish GbX	<i>Carassius auratus</i>	goldfish	AJ635195
GbX	painted turtle GbX	<i>Chrysemis picta bellii</i>	western painted turtle	XM_005293187 + genome data
GbX	zebrafish GbX	<i>Danio rerio</i>	zebrafish	AJ635194
GbX	catfish GbX	<i>Ictalurus punctatus</i>	channel catfish	CK416201
GbX	coelacanth GbX1	<i>Latimeria chalumnae</i>	coelacanth	ENSLACG00000010727
GbX	coelacanth GbX2	<i>Latimeria chalumnae</i>	coelacanth	ENSLACG00000003954
GbX	Arctic lamprey GbX1	<i>Lethenteron camtschaticum</i>	Arctic lamprey	genome data
GbX	softshell turtle GbX	<i>Pelodiscus sinensis</i>	Chinese softshell turtle	genome data
GbX	sea lamprey GbX1	<i>Petromyzon marinus</i>	sea lamprey	ENSPMAG00000007241
GbX	green spotted puffer GbX	<i>Tetraodon nigroviridis</i>	green spotted puffer	AJ635193
GbX	western clawed frog GbX	<i>Xenopus tropicalis</i>	western clawed frog	NM_001011196
Ngb	painted turtle Ngb	<i>Chrysemis picta bellii</i>	western painted turtle	XM_005301643
Ngb	zebrafish Ngb	<i>Danio rerio</i>	zebrafish	BC059416
Ngb	chicken Ngb	<i>Gallus gallus</i>	chicken	NM_001031551
Ngb	human NGB	<i>Homo sapiens</i>	man	AB463927
Ngb	coelacanth Ngb	<i>Latimeria chalumnae</i>	coelacanth	genome data
Ngb	mouse Ngb	<i>Mus musculus</i>	mouse	AJ245945
Ngb	platypus Ngb	<i>Ornithorhynchus anatinus</i>	platypus	XM_001508367
Ngb	medaka Ngb	<i>Oryzias latipes</i>	medaka	DK002855
Ngb	softshell turtle Ngb	<i>Pelodiscus sinensis</i>	Chinese softshell turtle	ENSPSIG00000004493
Ngb	zebra finch Ngb	<i>Taeniopygia guttata</i>	zebra finch	ENSTGUG00000012286
Ngb	torafugu Ngb	<i>Takifugu rubripes</i>	torafugu	XM_003962460
Ngb	green spotted puffer Ngb	<i>Tetraodon nigroviridis</i>	green spotted puffer	AJ315609
Ngb	western clawed frog Ngb	<i>Xenopus tropicalis</i>	western clawed frog	NM_001030351
aHb	inshore hagfish aHb1	<i>Eptatretus burgeri</i>	inshore hagfish	Q7SID0*
aHb	river lamprey aHb	<i>Lampetra fluviatilis</i>	river lamprey	P02207*
aHb	Arctic lamprey aHb1	<i>Lethenteron camtschaticum</i>	Arctic lamprey	AB294236
aHb	Arctic lamprey	<i>Lethenteron</i>	Arctic lamprey	genome data

	aHb2a	<i>camtschaticum</i>		
aHb	Arctic lamprey aHb6	<i>Lethenteron camtschaticum</i>	Arctic lamprey	genome data
aHb	Arctic lamprey aHb7	<i>Lethenteron camtschaticum</i>	Arctic lamprey	AB294237
aHb	Arctic lamprey aHb9	<i>Lethenteron camtschaticum</i>	Arctic lamprey	genome data
aHb	Arctic lamprey aHb10	<i>Lethenteron camtschaticum</i>	Arctic lamprey	genome data
aHb	Arctic lamprey aHb12	<i>Lethenteron camtschaticum</i>	Arctic lamprey	genome data
aHb	Arctic lamprey aHb13	<i>Lethenteron camtschaticum</i>	Arctic lamprey	genome data
aHb	Arctic lamprey aHb14a	<i>Lethenteron camtschaticum</i>	Arctic lamprey	genome data
aHb	Arctic lamprey aHb15	<i>Lethenteron camtschaticum</i>	Arctic lamprey	genome data
aHb	Po brook lamprey aHbA	<i>Lethenteron zanandreaei</i>	Po brook lamprey	Z24746
aHb	Po brook lamprey aHbB	<i>Lethenteron zanandreaei</i>	Po brook lamprey	Z24747
aHb	Po brook lamprey aHbC	<i>Lethenteron zanandreaei</i>	Po brook lamprey	Z24748
aHb	Australian lamprey aHb1	<i>Mordacia mordax</i>	Australian lamprey	P21197*
aHb	Australian lamprey aHb2	<i>Mordacia mordax</i>	Australian lamprey	P21198*
aHb	Australian lamprey aHb3	<i>Mordacia mordax</i>	Australian lamprey	P21199*
aHb	Atlantic hagfish aHb1	<i>Myxine glutinosa</i>	Atlantic hagfish	AF184239
aHb	Atlantic hagfish aHb2	<i>Myxine glutinosa</i>	Atlantic hagfish	AF157494
aHb	Atlantic hagfish aHb3	<i>Myxine glutinosa</i>	Atlantic hagfish	AF184047
aHb	Atlantic hagfish aHb4	<i>Myxine glutinosa</i>	Atlantic hagfish	AF156936
aHb	sea lamprey aHb1	<i>Petromyzon marinus</i>	sea lamprey	P09967*
aHb	sea lamprey aHb2a	<i>Petromyzon marinus</i>	sea lamprey	Q9I9I3*
aHb	sea lamprey aHb3	<i>Petromyzon marinus</i>	sea lamprey	P09968*
aHb	sea lamprey aHb5a	<i>Petromyzon marinus</i>	sea lamprey	P02208*
aHb	sea lamprey aHb5b	<i>Petromyzon marinus</i>	sea lamprey	ENSPMAG00000005354
aHb	sea lamprey aHb6	<i>Petromyzon marinus</i>	sea lamprey	EG333697

aHb	sea lamprey aHb7	<i>Petromyzon marinus</i>	sea lamprey	EE278870
aHb	sea lamprey aHb8	<i>Petromyzon marinus</i>	sea lamprey	ENSPMAG00000005367
aHb	sea lamprey aHb9	<i>Petromyzon marinus</i>	sea lamprey	ENSPMAG00000008540
aHb	sea lamprey aHb10	<i>Petromyzon marinus</i>	sea lamprey	FD718926
aHb	sea lamprey aHb11	<i>Petromyzon marinus</i>	sea lamprey	ENSPMAG00000001592
aHb	sea lamprey aHb12	<i>Petromyzon marinus</i>	sea lamprey	Scaffold GL477423
aHb	sea lamprey aHb13	<i>Petromyzon marinus</i>	sea lamprey	Scaffold GL477423
aHb	sea lamprey aHb14	<i>Petromyzon marinus</i>	sea lamprey	Scaffold GL477423
aHb	sea lamprey aHb1 ps	<i>Petromyzon marinus</i>	sea lamprey	Scaffold GL476413
aHb	sea lamprey aHb2 ps	<i>Petromyzon marinus</i>	sea lamprey	Scaffold GL480013
aMb	Arctic lamprey aMb1	<i>Lethenteron camtschaticum</i>	Arctic lamprey	genome data
aMb	sea lamprey aMb1	<i>Petromyzon marinus</i>	sea lamprey	ENSPMAG00000006056
aMb	sea lamprey aMb2	<i>Petromyzon marinus</i>	sea lamprey	EG021442
Cygb	painted turtle Cygb	<i>Chrysemis picta bellii</i>	western painted turtle	XM_005297540
Cygb	zebrafish Cygb1	<i>Danio rerio</i>	zebrafish	BC165894
Cygb	zebrafish Cygb2	<i>Danio rerio</i>	zebrafish	AJ635229
Cygb	chicken Cygb	<i>Gallus gallus</i>	chicken	NM_001008789
Cygb	human CYGB	<i>Homo sapiens</i>	man	AJ315162
Cygb	European brook lamprey Cygb	<i>Lampetra planeri</i>	European brook lamprey	TBA
Cygb	coelacanth Cygb	<i>Latimeria chalumnae</i>	coelacanth	ENSLACG00000014904
Cygb	Arctic lamprey Cygb	<i>Lethenteron camtschaticum</i>	Arctic lamprey	genome data
Cygb	medaka Cygb1	<i>Oryzias latipes</i>	medaka	NM_001104767
Cygb	medaka Cygb2	<i>Oryzias latipes</i>	medaka	NM_001104768
Cygb	softshell turtle Cygb	<i>Pelodiscus sinensis</i>	Chinese softshell turtle	ENSPSIG00000002766
Cygb	sea lamprey Cygb	<i>Petromyzon marinus</i>	sea lamprey	Scaffold GL478089+ GL477469
Cygb	rat Cygb	<i>Rattus norvegicus</i>	rat	NM_130744
Cygb	zebra finch Cygb	<i>Taeniopygia guttata</i>	zebra finch	XM_002195407
Cygb	torafugu Cygb1	<i>Takifugu rubripes</i>	torafugu	ENSTRUG00000012110
Cygb	torafugu Cygb2	<i>Takifugu rubripes</i>	torafugu	ENSTRUG00000008030

Cygb	green spotted puffer Cygb1	<i>Tetraodon nigroviridis</i>	green spotted puffer	AJ635230
Cygb	western clawed frog Cygb	<i>Xenopus tropicalis</i>	western clawed frog	NM_001006869
GbY	green anole GbY	<i>Anolis carolinensis</i>	green anole	ENSACAG00000027586
GbY	elephant shark GbY	<i>Callorhinchus milii</i>	elephant shark	JK861558
GbY	painted turtle GbY	<i>Chrysemis picta bellii</i>	western painted turtle	XM_005306194
GbY	coelacanth GbY	<i>Latimeria chalumnae</i>	coelacanth	XM_005990799
GbY	platypus GbY	<i>Ornithorhynchus anatinus</i>	platypus	AC203513
GbY	softshell turtle GbY	<i>Pelodiscus sinensis</i>	Chinese softshell turtle	ENSPSIG00000011829
GbY	African clawed frog GbY	<i>Xenopus laevis</i>	African clawed frog	NM_001095686
GbY	western clawed frog GbY	<i>Xenopus tropicalis</i>	western clawed frog	XM_002941194
GbE	mallard GbE	<i>Anas platyrhynchos</i>	mallard	genome data
GbE	painted turtle GbE	<i>Chrysemis picta bellii</i>	western painted turtle	XM_005293060 + genome data
GbE	chicken GbE	<i>Gallus gallus</i>	chicken	NM_001008786
GbE	coelacanth GbE	<i>Latimeria chalumnae</i>	coelacanth	ENSLACG00000001661
GbE	turkey GbE	<i>Meleagris gallopavo</i>	turkey	XM_003202331
GbE	softshell turtle GbE	<i>Pelodiscus sinensis</i>	Chinese softshell turtle	XM_006124603
GbE	zebra finch GbE	<i>Taeniopygia guttata</i>	zebra finch	XM_002196350
Mb	painted turtle Mb	<i>Chrysemis picta bellii</i>	western painted turtle	XM_005300826
Mb	zebrafish Mb	<i>Danio rerio</i>	zebrafish	AY337025
Mb	tope shark Mb	<i>Galeorhinus galeus</i>	tope shark	P14397*
Mb	chicken Mb	<i>Gallus gallus</i>	chicken	XM_003202347
Mb	Port Jackson shark Mb	<i>Heterodontus portusjacksoni</i>	Port Jackson shark	P02206*
Mb	human MB	<i>Homo sapiens</i>	man	NM_203377
Mb	coelacanth Mb	<i>Latimeria chalumnae</i>	coelacanth	ENSLACG00000007526
Mb	gummy shark Mb	<i>Mustelus antarcticus</i>	gummy shark	P14399*
Mb	medaka Mb	<i>Oryzias latipes</i>	medaka	BJ883657
Mb	softshell turtle Mb	<i>Pelodiscus sinensis</i>	Chinese softshell turtle	ENSPSIG00000008494
Mb	sperm whale Mb	<i>Physeter catodon</i>	sperm whale	AB271144
Mb	cloudy catshark Mb	<i>Scyliorhinus torazame</i>	cloudy catshark	FY417124
Mb	zebra finch Mb	<i>Taeniopygia guttata</i>	zebra finch	XM_002199380
HbA	painted turtle HbA	<i>Chrysemis picta bellii</i>	western painted turtle	XM_005306158

HbA	painted turtle HbK	<i>Chrysemis picta bellii</i>	western painted turtle	XM_005306157
HbA	painted turtle HbZ	<i>Chrysemis picta bellii</i>	western painted turtle	XM_005306148
HbA	zebrafish HbA	<i>Danio rerio</i>	zebrafish	BC164447
HbA	zebrafish HbZ	<i>Danio rerio</i>	zebrafish	AY325264
HbA	zebrafish HbAx	<i>Danio rerio</i>	zebrafish	AL915033
HbA	chicken HbA	<i>Gallus gallus</i>	chicken	NM_001004376
HbA	chicken HbK	<i>Gallus gallus</i>	chicken	XM_003643192
HbA	Port Jackson shark HbA	<i>Heterodontus portusjacksoni</i>	Port Jackson shark	P02021*
HbA	human HbA	<i>Homo sapiens</i>	man	AF105974
HbA	human HBZ	<i>Homo sapiens</i>	man	M24173
HbA	coelacanth HbA1	<i>Latimeria chalumnae</i>	coelacanth	ENSLACG00000006283
HbA	coelacanth HbA2	<i>Latimeria chalumnae</i>	coelacanth	P23740*
HbA	spotless smooth- hound HbA	<i>Mustelus griseus</i>	spotless smooth- hound	Q9YGW2*
HbA	medaka HbA	<i>Oryzias latipes</i>	medaka	BAC20295*
HbA	softshell turtle HbA	<i>Pelodiscus sinensis</i>	Chinese softshell turtle	ENSPSIG00000011874; ENSPSIG00000011856 +RACE
HbA	softshell turtle HbK	<i>Pelodiscus sinensis</i>	Chinese softshell turtle	ENSPSIG00000012157+ RACE
HbA	softshell turtle HbZ	<i>Pelodiscus sinensis</i>	Chinese softshell turtle	ENSPSIG00000012161
HbA	cloudy catshark HbA	<i>Scyliorhinus torazame</i>	cloudy catshark	FY415186
HbA	spiny dogfish HbA	<i>Squalus acanthias</i>	spiny dogfish	P07408*
HbA	zebra finch HbA	<i>Taeniopygia guttata</i>	zebra finch	DQ216719
HbA	zebra finch HbK	<i>Taeniopygia guttata</i>	zebra finch	DQ213486
HbA	African clawed frog HbA1	<i>Xenopus laevis</i>	African clawed frog	X02796
HbA	African clawed frog HbAT5	<i>Xenopus laevis</i>	African clawed frog	X02798
HbA	western clawed frog HbA1	<i>Xenopus tropicalis</i>	western clawed frog	BC088005
HbB	painted turtle HbB1	<i>Chrysemis picta bellii</i>	western painted turtle	XM_005290010
HbB	painted turtle HbB2	<i>Chrysemis picta bellii</i>	western painted turtle	XM_005290009
HbB	painted turtle HbG	<i>Chrysemis picta bellii</i>	western painted turtle	XM_005290008
HbB	zebrafish HbBa	<i>Danio rerio</i>	zebrafish	BC164283
HbB	zebrafish HbBe	<i>Danio rerio</i>	zebrafish	NM_198073
HbB	chicken HbG	<i>Gallus gallus</i>	chicken	M73995
HbB	Port Jackson	<i>Heterodontus</i>	Port Jackson shark	P02143*

	shark HbB	<i>portusjacksoni</i>		
HbB	human HBB	<i>Homo sapiens</i>	man	NM_000518
HbB	human HBD	<i>Homo sapiens</i>	man	NM_000519
HbB	human HBE	<i>Homo sapiens</i>	man	NM_005330
HbB	human HBG	<i>Homo sapiens</i>	man	BC130457
HbB	coelacanth HbB1	<i>Latimeria chalumnae</i>	coelacanth	P23741*
HbB	coelacanth HbB2	<i>Latimeria chalumnae</i>	coelacanth	XM_006011048
HbB	spotless smooth-hound HbB	<i>Mustelus griseus</i>	spotless smooth-hound	Q9YGW1*
HbB	platypus HbW	<i>Ornithorhynchus anatinus</i>	platypus	AC203513
HbB	medaka HbB	<i>Oryzias latipes</i>	medaka	AB080120
HbB	softshell turtle HbB1	<i>Pelodiscus sinensis</i>	Chinese softshell turtle	ENSPSIG00000004624
HbB	softshell turtle HbB2	<i>Pelodiscus sinensis</i>	Chinese softshell turtle	ENSPSIG00000005077
HbB	cloudy catshark HbB	<i>Scyliorhinus torazame</i>	cloudy catshark	FY415474
HbB	spiny dogfish HbB	<i>Squalus acanthias</i>	spiny dogfish	P07409*
HbB	zebra finch HbE	<i>Taeniopygia guttata</i>	zebra finch	NM_001245112
HbB	western clawed frog HbB1	<i>Xenopus tropicalis</i>	western clawed frog	NM_203528
HbB	western clawed frog HbB2	<i>Xenopus tropicalis</i>	western clawed frog	NM_001016495