

Supplemental Figure S1. Sequence alignment of the Arg-Cys region of AhRs from diverse species. Conserved Arg residues are indicated in blue and Cys residues in yellow.

Species	Protein	Sequence
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Mouse (C57)	AhR <sup>b</sup>	NASFMERCFRCRLRCLLDNS
Guinea Pig	AhR	NSPLMERCFVCRLRCLLDNS
Rat (RN)	AhR	NTAFMERCFRCRLRCLLDNS
Human	AhR	NSPLMERCFICRLRCLLDNS
Hamster	AhR	SASFLERCFICRLRCLLDNS
Rabbit	AhR	NSSFMERCFICRLRCLLDNS
Seal	AhR	NSSCMERSFVCRLRCLLDNS
Whale	AhR	NSSSMERCFVCRLRCLLDNS
Dolphin	AhR	NSSSMERCFVCRLRCLLDNS
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Chicken	AhR	NSSFMEARNFICRLRCLLDNS
Tern	AhR	NSSFMEARNFICRLRCLLDNS
Trout	AhR	NSSFLERNFVCRFRCLLDNS
Fundulus	AhR1	NSSFLERNFVCRFRCLLDNS
Fundulus	AhR2	SSSFLERSFVCRFRCLLDNS
Zebrafish	AhR1a	NSTCLERNFICRLRCLLDST
Zebrafish	AhR1b	NSSFLERNFVCRFRCLLDNS
Zebrafish	AhR2	NSSFLERSFCCRFRCLLDNS
Tomcod	AhR	NSSFLERSFVCRFRCLLDNS
Lamprey	AhR	NSSFLERQFICRFRCLLDNS

Hsp90 binding to an AhR containing a D371A mutation is similar to that of wild-type (wt) AhR. D371A and wtAhR are indicated with an asterisk. Hsp90 binding to other AhR mutants are also shown, but are not included in this manuscript.

[illegible]