

Figure S2

A.

CgER	248	QTVTILQALNKAALPVLESHHNGQPPTKVHLLNSLVKLAERELVHLINWAKNVPGYTDL	307
AncLophoSR	1	PANQIIISALLKADPPVLYASHDPDLPDTEVHLMTSLIKLADRELVHVINWAKNIPGYTDL	60
HsERα	311	TADQMVSALLDAEPPILYSEYDPTTRPFSEASMMGLLTNLADRELVHMINWAKRVPGFVDL	370
415                      425			
CgER	308	SLSDQVHLIECCWMELLLLNCAPRSIEHGGKSLAFAPDLVDRSSWSTVE-MTEIFEQVA	366
AncLophoSR	61	SLNDQVHLECCWMELLILGLAWRSMDEHGKRLVFAPDLILDREQARVAG-MTEIFDQIL	119
HsERα	371	TLHDQVHLECAWLEILMIGLVWRSMEHPGK-LLFAPNLLDRNQGKCEGMVEIFDMLL	429
524/525                      536			
CgER	367	AVSEQMMQNHLHKDELLLLQAMVLVNAEVRRLASYNQ-----IFNMQQSLDAIVDT	418
AncLophoSR	120	AISQQFRQLHLNKEEFVLLKAIVLVNSDVRRLSYSK-----IQELQQNIHDALVDT	171
HsERα	430	ATSSRFRMMNLQGEEFVCLKSIILLNSGVYTFLSSTLKSLEEKDHIHRVLDKITDTLIHL	489
CgER	419	AQKY---HPDNVRHVPVAVLLLLTHIRQAGERGIAFFQRLKSEGVVTFCDLLKEMLDAQ	473
AncLophoSR	172	VAKY---HPQNPRRLAQLLLLLPHIRQVSNGGIEHLYSMKSEGAVPLYDLLTEMLDAQ	226
HsERα	490	MAKAGLTLQQQHQLAQLLLLILSHIRHMSNKGMEHLYSMCKKNVVPPLYDLLLLLEMLDAH	547

B.

AncLophoSR  
 CYEVGMNKGSRKERKGSISMSKPAATKRSRADSSDNTVNSTSGSPNPAKSARKSPANQIIISALLKADPPV  
 LYASHDPDLPDTEVHLMTSLIKLADRELVHVINWAKNIPGYTDL  
 SLNDQVHLECCWMELLILGLAWRSMDEHGKRLVFAPDLILDREQARVAGMTEIFDQIL  
 AISQQFRQLHLNKEEFVLLKAIVLVNSDVRRLSYSKIQELQQNIHDALVDT  
 VAKYHPQNPRRLAQLLLLLPHIRQVSNGGIEHLYSMKSEGAVPLYDLLTEMLDAQ  
 DFL  
 EKKSSNEGD\*