

**Additional file 2:** Pairwise protein sequence identity of ABAD/HSD10 orthologues

	human	chimpanzee	orangutan	r. monkey	cow	pig	dog	cat	mouse	rat	opossum	w. c. frog	a. c. frog	zebrafish	puffer fish	fugu fish	fruitfly	mosquito	honeybee	<i>C. elegans</i>	<i>C. briggsae</i>	
human	1.00																					
chimpanzee	1.00	1.00																				
orangutan	0.97	0.97	1.00																			
r. monkey	0.97	0.97	0.99	1.00																		
cow	0.92	0.92	0.93	0.93	1.00																	
pig	0.91	0.91	0.92	0.91	0.94	1.00																
dog	0.92	0.92	0.93	0.93	0.93	0.91	1.00															
cat	0.93	0.93	0.94	0.94	0.95	0.92	0.96	1.00														
mouse	0.88	0.88	0.89	0.89	0.90	0.87	0.89	0.89	1.00													
rat	0.88	0.88	0.89	0.90	0.90	0.87	0.89	0.89	0.93	1.00												
opossum	0.73	0.73	0.74	0.74	0.74	0.73	0.74	0.74	0.73	0.72	1.00											
w. c. frog	0.77	0.77	0.77	0.77	0.78	0.77	0.76	0.77	0.77	0.75	0.74	1.00										
a. c. frog	0.76	0.76	0.76	0.76	0.77	0.75	0.75	0.76	0.75	0.73	0.74	0.96	1.00									
zebrafish	0.74	0.74	0.74	0.74	0.75	0.74	0.75	0.75	0.73	0.72	0.74	0.81	0.81	1.00								
Tetraodon	0.73	0.73	0.74	0.73	0.74	0.73	0.74	0.75	0.74	0.73	0.73	0.79	0.78	0.86	1.00							
Fugu	0.75	0.75	0.76	0.75	0.77	0.75	0.76	0.77	0.74	0.73	0.75	0.81	0.80	0.90	0.95	1.00						
fruitfly	0.67	0.67	0.68	0.68	0.68	0.66	0.69	0.68	0.66	0.65	0.64	0.69	0.68	0.67	0.65	0.67	1.00					
mosquito	0.67	0.67	0.67	0.67	0.66	0.65	0.67	0.67	0.65	0.63	0.62	0.7	0.69	0.66	0.63	0.65	0.82	1.00				
honeybee	0.60	0.60	0.61	0.61	0.62	0.60	0.60	0.61	0.60	0.59	0.60	0.63	0.63	0.60	0.61	0.61	0.63	0.65	1.00			
<i>C. elegans</i>	0.59	0.59	0.59	0.61	0.59	0.57	0.57	0.57	0.59	0.59	0.53	0.57	0.57	0.57	0.57	0.57	0.57	0.56	0.55	1.00		
<i>C. briggsae</i>	0.59	0.59	0.58	0.58	0.59	0.57	0.58	0.58	0.59	0.58	0.52	0.56	0.57	0.55	0.56	0.55	0.56	0.55	0.54	0.95	1.00	