

Table S1

Organism	Accession number/ NCBI	EuPathDB ID	Reference
<i>Homo sapiens</i> , (Isoform II), <i>HuCA2</i>	AAH11949.1	--	1, 2
<i>Homo sapiens</i> , (Isoform I), <i>HuCA1</i>	NP_001158302.1	--	2
<i>Neisseria gonorrhoeae</i> , <i>NgCAh</i>	WP_003688976.1	NCLIV_006180	3
<i>Plasmodium falciparum</i> 3D7, <i>PfCA</i>	XP_001348081.2	PF3D7_1140000	4
<i>Plasmodium yoelli</i> 17XNL, <i>PvCAh</i>	XP_726574.1	PY00744	
<i>Plasmodium berghei</i> ANKA, <i>PbCAh</i>	XP_676575.1	PBANKA_090900	
<i>Theileria equii</i> , <i>TeCAh</i>	XP_004828973.1	BEWA_021550	
<i>Theileria parva</i> , <i>TpCAh</i>	XP_764978.1	TP02_0412	
<i>Neospora caninum</i> Liverpool, <i>NcCAh</i>	XP_003880177.1	NCLIV_006180	
<i>Eimeria tenella</i> Houghton, <i>EtCAh</i>	XP_013233689.1	ETH_00027955	
<i>Toxoplasma gondii</i> GT1, <i>TgCA_RP</i>	XP_002371137.1	TGME49_297070	
<i>Thalassiosira oceanica</i> , <i>ToCdCAh</i>	K0SZQ0		
<i>Ostreococcus tauri</i> , <i>OtCdCAh</i>	A0A090N4Y7		
<i>Psuedoalteromonas</i> sp., <i>PsCdCAh</i>	A0A0A7EH23		
<i>Escherichia coli</i> , <i>yadF</i> , <i>EcCA1</i>	C3TN07		
<i>Escherichia coli</i> , <i>EcCA2</i>	P61517		
<i>Salmonella typhimurium</i> , <i>StCAh</i>	Q8ZRS0		
<i>Yersinia pestis</i> , <i>yadF</i> , <i>YpCAh</i>	Q0WBN9		

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3. Elleby, B., Chirica, L. C., Tu, C., Zeppezauer, M. & Lindskog, S. Characterization of carbonic anhydrase from *Neisseria gonorrhoeae*. *Eur. J. Biol. Chem./ FEBS* **268**, 1613-1619 (2001).
4. De Simone, G., Di Fiore, A., Capasso, C. & Supuran, C. T. The zinc coordination pattern in the eta-carbonic anhydrase from *Plasmodium falciparum* is different from all other carbonic anhydrase genetic families. *Bioorg. Med. Chem. Lett.* **25**, 1385-1389, (2015)