

**Supplementary Table 1.** Reptilian cathelicidins (non-snake) deposited in the Antimicrobial Peptide Database (APD) with listed antibacterial and antibiofilm activities.

ID and peptide name	Organism	Active peptide sequence	Bacterial strains	Activity		Reference
				Antibacterial and Antibiofilm ( $\mu\text{g.mL}^{-1}$ )	Other activities	
AP03078 Cm-CATH1	Green sea turtle <i>Chelonia mydas</i>	RRSIFRKLRRKIKKGLKKGIQ HLLAGGRQGLPQGGRPGMI	<i>Acinetobacter baumannii</i>	>200*	Antifungal	(Qiao et al., 2019)
			<i>Bacillus cereus</i>	75*		
			<i>Bacillus subtilis</i>	18,75*		
			<i>Enterococcus faecalis</i>	>200*		
			<i>Enterococcus faecium</i>	4,69*		
			<i>Escherichia coli</i>	4,69 to >200*		
			<i>Klebsiella oxytoca</i>	>200*		
			<i>Klebsiella pneumoniae</i>	75 to >200*		
			<i>Nocardia asteroides</i>	4,69*		
			<i>Proteus mirabilis</i>	>200*		
<i>Proteus vulgaris</i>	>200*					

			<i>Pseudomonas aeruginosa</i>	4,69 to >200*		
			<i>Serratia marcescens</i>	>200*		
			<i>Shigella dysenteriae</i>	4,69*		
			<i>Staphylococcus aureus</i>	18,75 to >200*		
			<i>Staphylococcus epidermidis</i>	>200*		
			<i>Stenotrophomonas maltophilia</i>	9,38*		
			<i>Acinetobacter baumannii</i>	18,75*		
			<i>Bacillus cereus</i>	9,38*		
			<i>Bacillus subtilis</i>	4,69*		
			<i>Enterococcus faecalis</i>	75*		
			<i>Enterococcus faecium</i>	2,34*		
				10**		
			<i>Escherichia coli</i>	25***		
				4,69 to 9,38*		
				25***		

AP03079  Cm-CATH2		RRSRFGRFFKKVRKQLGRVL  RHSRITVGGRMRF	<i>Klebsiella oxytoca</i>	18,75*	Antifungal  Anti-inflammatory
			<i>Klebsiella pneumoniae</i>	9,38 to 18,75*	
			<i>Nocardia asteroides</i>	2,34*	
			<i>Proteus mirabilis</i>	18,75*	
			<i>Proteus vulgaris</i>	18,75*	
			<i>Pseudomonas aeruginosa</i>	2,34 to 9,38*	
			<i>Serratia marcescens</i>	>200*	
			<i>Shigella dysenteriae</i>	1,17*	
			<i>Staphylococcus aureus</i>	4,69 to >200*	
				10** 25***	
<i>Staphylococcus epidermidis</i>	9,38*				
<i>Stenotrophomonas maltophilia</i>	18,75*				
AP03080		TRGRWKRFWRGAGRFFRRH	<i>Acinetobacter baumannii</i>	>200*	Antifungal
		KEKIIRAAVDIVLS	<i>Bacillus cereus</i>	9,38*	

Cm-CATH3			<i>Bacillus subtilis</i>	1,17*		
			<i>Enterococcus faecalis</i>	37,5*		
			<i>Enterococcus faecium</i>	1,17*		
			<i>Escherichia coli</i>	1,17 to 9,38*		
			<i>Klebsiella oxytoca</i>	>200*		
			<i>Klebsiella pneumoniae</i>	9,38 to 18,75*		
			<i>Nocardia asteroides</i>	2,34*		
			<i>Proteus mirabilis</i>	>200*		
			<i>Proteus vulgaris</i>	>200*		
			<i>Pseudomonas aeruginosa</i>	2,34 to 37,5*		
			<i>Serratia marcescens</i>	>200*		
			<i>Shigella dysenteriae</i>	1,17*		
			<i>Staphylococcus aureus</i>	1,17 to >200*		
			<i>Staphylococcus epidermidis</i>	37,5*		
			<i>Stenotrophomonas</i>	>200*		

			<i>maltophilia</i>		
AP03081  Cm-CATH4		MAFPFSTQRINPEIEEGNASLA DLPVTHAGSLPGIKAQVRTAL GIALLLVA	<i>Acinetobacter baumannii</i>	>200*	Antifungal
			<i>Bacillus cereus</i>	>200*	
			<i>Bacillus subtilis</i>	9,38*	
			<i>Enterococcus faecalis</i>	>200*	
			<i>Enterococcus faecium</i>	4,69*	
			<i>Escherichia coli</i>	9,38 to >200*	
			<i>Klebsiella oxytoca</i>	>200*	
			<i>Klebsiella pneumoniae</i>	37,5 to >200*	
			<i>Nocardia asteroides</i>	37,5*	
			<i>Proteus mirabilis</i>	>200*	
			<i>Proteus vulgaris</i>	>200*	
			<i>Pseudomonas aeruginosa</i>	>200*	
			<i>Serratia marcescens</i>	>200*	
			<i>Shigella dysenteriae</i>	9,38*	
<i>Staphylococcus aureus</i>	18,75 to >200*				

			<i>Staphylococcus epidermidis</i>	>200*		
			<i>Stenotrophomonas maltophilia</i>	75		
AP03050	Chinese soft-shelled turtle	TRGRWGRFKRRAGRFIRNR	<i>Acinetobacter baumannii</i>	>200*	Antifungal	(Shi et al., 2019)
Ps-CATH4	<i>Pelodiscus</i>	WQIISTGLKLIG	<i>Bacillus cereus</i>	2,34*		
			<i>Bacillus subtilis</i>	9,38*		
			<i>Dysentery bacillus</i>	2,34		
			<i>Enterococcus faecalis</i>	>200*		
			<i>Enterococcus faecium</i>	9,38*		
			<i>Escherichia coli</i>	9,38*		
			<i>Klebsiella oxytoca</i>	4,69*		
			<i>Klebsiella pneumoniae</i>	9,38 to 18,75*		
			<i>Nocardia asteroides</i>	9,38*		
			<i>Proteus mirabilis</i>	9,38*		
			<i>Proteus vulgaris</i>	>200*		

	<i>sinensis</i>		<i>Pseudomonas aeruginosa</i>	9,38 to 18,75*		
			<i>Salmonella paratyphi</i>	9,38*		
			<i>Serratia marcescens</i>	>200*		
			<i>Staphylococcus aureus</i>	9,38* to >200*		
			<i>Staphylococcus epidermidis</i>	18,75*		
			<i>Stenotrophomonas maltophilia</i>	9,38 to 75*		
			<i>Acinetobacter baumannii</i>	>200*		
			<i>Bacillus cereus</i>	>200*		
			<i>Bacillus subtilis</i>	>200*		
			<i>Dysentery bacillus</i>	>200*		
			<i>Enterococcus faecalis</i>	>200*		
			<i>Enterococcus faecium</i>	>200*		
			<i>Escherichia coli</i>	18,75 to >200*		
			<i>Klebsiella oxytoca</i>	75*		

AP03051  Ps-CATH6	KKPSKKPKPQAMTFPKVTVE  YFPASFSTAALTVPED	<i>Klebsiella pneumoniae</i>	37,5 to >200*	Antifungal	
		<i>Nocardia asteroides</i>	>200*		
		<i>Proteus mirabilis</i>	>200*		
		<i>Proteus vulgaris</i>	>200*		
		<i>Pseudomonas aeruginosa</i>	37,5 to >200*		
		<i>Salmonella paratyphi</i>	>200*		
		<i>Serratia marcescens</i>	>200*		
		<i>Staphylococcus aureus</i>	>200*		
		<i>Staphylococcus epidermidis</i>	>200*		
		<i>Stenotrophomonas maltophilia</i>	75 to >200*		
NA  AM-	GLFKKLRKIKKGFKKIFKRL	<i>Acinetobacter baumannii</i>	10 to 42*	NR	
		<i>Enterococcus faecalis</i>	>42*		
		<i>Escherichia coli</i>	21 to 140*		
		<i>Klebsiella pneumoniae</i>	5,2 to 28*		



CATH21	American alligator <i>Alligator mississippiensis</i>		<i>Pseudomonas aeruginosa</i>	10 to 42*	NR	(Barksdale et al., 2017)	
			<i>Staphylococcus aureus</i>	28			
NA		KIKKGFKKIFKRLPPIGVGVS I PLAGKR	<i>Acinetobacter baumannii</i>	10 to 28*			
			<i>Enterococcus faecalis</i>	>140*			
			<i>Escherichia coli</i>	>140*			
AM- CATH28			<i>Klebsiella pneumoniae</i>	5,6 to 28*			
			<i>Pseudomonas aeruginosa</i>	21 to >42*			
			<i>Staphylococcus aureus</i>	>42*			
NA		GLFKKLRRKIKKGFKKIFKRL PPIGVGVS IPLAGKR	<i>Acinetobacter baumannii</i>	5,2*			NR
			<i>Enterococcus faecalis</i>	>42*			
			<i>Escherichia coli</i>	140*			
AM- CATH36			<i>Klebsiella pneumoniae</i>	5,2 to 5,6*			
	<i>Pseudomonas aeruginosa</i>		5,2*				
	<i>Staphylococcus aureus</i>		21*				
		<i>Acinetobacter baumannii</i>	4,69*				
		<i>Bacillus cereus</i>	9,38*				

AP02898  As-CATH4	Chinese alligator  <i>Alligator sinensis</i>	RRGLFKKLRRKIKKGFKKIFK  RLPPVGVGVSIPLAGR	<i>Bacillus subtilis</i>	2,35*	Antifungal	(Chen et al., 2017)
			<i>Enterococcus faecalis</i>	>200*		
			<i>Enterococcus faecium</i>	9,38*		
			<i>Escherichia coli</i>	9,38 to >200*		
				18,75**		
				40***		
			<i>Klebsiella oxytoca</i>	9,38*		
			<i>Klebsiella pneumoniae</i>	9,38 to 18,75*		
			<i>Nocardia asteroides</i>	>200*		
			<i>Proteus mirabilis</i>	9,38*		
			<i>Proteus vulgaris</i>	9,38*		
			<i>Pseudomonas aeruginosa</i>	9,38 to 18,75*		
			<i>Salmonella paratyphi</i>	4,69*		
			<i>Shigella dysenteriae</i>	9,38*		
<i>Staphylococcus aureus</i>	9,38 to >200*					
<i>Staphylococcus epidermidis</i>	9,38*					

			<i>Stenotrophomonas maltophilia</i>	18,75 to 37,5*	
AP02899  As-CATH5	G	TRRKFWKKVLNGALKIAPFL	<i>Acinetobacter baumannii</i>	18,75 to 200*	Antifungal
			<i>Bacillus cereus</i>	18,75*	
			<i>Bacillus subtilis</i>	2,35*	
			<i>Enterococcus faecalis</i>	9,38*	
			<i>Enterococcus faecium</i>	18,75*	
			<i>Escherichia coli</i>	9,38 to 18,75*	
				18,75** 40***	
			<i>Klebsiella oxytoca</i>	938*	
			<i>Klebsiella pneumoniae</i>	9,38 to >200*	
			<i>Nocardia asteroides</i>	9,38*	
			<i>Proteus mirabilis</i>	4,69*	
			<i>Proteus vulgaris</i>	>200*	
<i>Pseudomonas aeruginosa</i>	9,38 to 18,75*				
<i>Salmonella paratyphi</i>	9,38*				

			<i>Shigella dysenteriae</i>	9,38*		
			<i>Staphylococcus aureus</i>	9,38 to 37,5*		
			<i>Staphylococcus epidermidis</i>	18,75*		
			<i>Stenotrophomonas maltophilia</i>	9,38*		
			<i>Acinetobacter baumannii</i>	>200*		
			<i>Bacillus cereus</i>	>200*		
			<i>Bacillus subtilis</i>	9,38*		
			<i>Enterococcus faecalis</i>	>200*		
			<i>Enterococcus faecium</i>	>200*		
			<i>Escherichia coli</i>	4,69 to 18,75* 18,75** 40***		
			<i>Klebsiella oxytoca</i>	9,38*		
			<i>Klebsiella pneumoniae</i>	9,38*		
AP02900		TRWLWLLRGGLKAAGWGIR	<i>Nocardia asteroides</i>	18,75*	Antifungal	

As-CATH6	AHLNRNQ	<i>Proteus mirabilis</i>	9,38*		
		<i>Proteus vulgaris</i>	>200*		
		<i>Pseudomonas aeruginosa</i>	18,75 to 37,5*		
		<i>Salmonella paratyphi</i>	37,5*		
		<i>Shigella dysenteriae</i>	37,5*		
		<i>Staphylococcus aureus</i>	9,38 to >200*		
		<i>Staphylococcus epidermidis</i>	>200*		
		<i>Stenotrophomonas maltophilia</i>	18,75 to >200*		

Abbreviations: \*MIC (minimal inhibitory concentration); \*\*Inhibition of biofilm formation; \*\*\*Eradication of preformed biofilms; NA= Not available; NR= Not rated