

Supporting information

Table S1. Information on sequences used in multiple sequence alignment.

Species	Accession number
Caspase3	
<i>Mus musculus</i>	AAC53196.1
<i>Homo sapiens</i>	CAC88866.1
<i>Danio rerio</i>	AAH78310.1
<i>Xenopus laevis</i>	NP_001081225.1
<i>Oryzias latipes</i>	NP_001098140.1
<i>Xenopus tropicalis</i>	NP_001120900.1
<i>Ictalurus punctatus</i>	NP_001188010.1
<i>Alligator sinensis</i>	XP_025063386.1
<i>Microcaecilia unicolor</i>	XP_030047368.1
Caspase7	
<i>Xenopus tropicalis</i>	NP_001016299.1
<i>Danio rerio</i>	NP_001018443.1
<i>Chrysemys picta bellii</i>	XP_005293940.1
<i>Homo sapiens</i>	XP_016872253.1
<i>Nanorana parkeri</i>	XP_018419982.1
<i>Rhinatrema bivittatum</i>	XP_029466303.1
<i>Microcaecilia unicolor</i>	XP_030058570.1
<i>Thamnophis elegans</i>	XP_032081709.1
<i>Mus musculus</i>	XP_006526679.3
Caspase8	
<i>Mus musculus</i>	NP_033942.1
<i>Danio rerio</i>	NP_571585.2
<i>Oryzias latipes</i>	NP_001098258.1
<i>Oncorhynchus mykiss</i>	NP_001268251.1
<i>Homo sapiens</i>	XP_005246949.1
<i>Chrysemys picta bellii</i>	XP_005306306.1
<i>Rhinatrema bivittatum</i>	XP_029462103.1
<i>Xenopus tropicalis</i>	XP_017953067.2
<i>Chelonia mydas</i>	XP_037768405.1
Caspase9	
<i>Homo sapiens</i>	P55211.3
<i>Mus musculus</i>	CAJ18606.1
<i>Oncorhynchus mykiss</i>	NP_001118119
<i>Danio rerio</i>	NP_001007405.2
<i>Chrysemys picta bellii</i>	XP_005293057.1
<i>Nanorana parkeri</i>	XP_018424267.1
<i>Rhinatrema bivittatum</i>	XP_029434788.1
<i>Microcaecilia unicolor</i>	XP_030041780.1
<i>Chelonia mydas</i>	XP_037737237.1

Table S2. Information on sequences used in phylogeny.

Species	Accession number
Caspase3	
<i>Anas platyrhynchos</i>	XM_027456288.1
<i>Capra hircus</i>	NM_001286089.1
<i>Chelonia mydas</i>	XM_007054464.2
<i>Chrysemys picta bellii</i>	XM_005281973.3
<i>Cynops orientalis</i>	JQ320088.1
<i>Dromaius novaehollandiae</i>	XM_026105278.1
<i>Gallus gallus</i>	NM_204725.1
<i>Homo sapiens</i>	NM_004346.4
<i>Ictalurus punctatus</i>	XM_017473312.1
<i>Microcaecilia unicolor</i>	XM_030191508.1
<i>Mus musculus</i>	XM_017312543.3
<i>Oncorhynchus mykiss</i>	AB477342.1
<i>Ornithorhynchus anatinus</i>	XM_029076645.1
<i>Oryzias latipes</i>	NM_001104670.1
<i>Parus major</i>	XM_015624463.3
<i>Protopterus annectens</i>	XM_044089855.1
<i>Protopterus annectens</i>	XM_044089854.1
<i>Rana catesbeiana</i>	BT081679.1
<i>Takifugu rubripes</i>	AY102865.1
<i>Thamnophis elegans</i>	XM_032224719.1
<i>Xenopus laevis</i>	NM_001097686.1
<i>Xenopus laevis</i>	XM_018234069.2
<i>Xenopus laevis</i>	XM_018251735.2
Caspase7	
<i>Anas platyrhynchos</i>	XM_027459864.2
<i>Bufo gargarizans</i>	XM_044296926.1
<i>Bufo gargarizans</i>	XM_044296925.1
<i>Chrysemys picta bellii</i>	XM_005293883.3
<i>Cynoglossus semilaevis</i>	XM_025057176.1
<i>Cynops orientalis</i>	JQ320087.1
<i>Danio rerio</i>	NM_001020607.1
<i>Gallus gallus</i>	XM_421764.5
<i>Homo sapiens</i>	XM_017016764.1
<i>Microcaecilia unicolor</i>	XM_030202710.1
<i>Molothrus ater</i>	XM_036385684.1
<i>Mus musculus</i>	NM_007611.2
<i>Nanorana parkeri</i>	XM_018564480.1
<i>Orcinus orca</i>	XM_004265822.2
<i>Oryctolagus cuniculus</i>	XM_017348571.1
<i>Pogona vitticeps</i>	XM_020779907.1
<i>Protopterus annectens</i>	XM_044055765.1

<i>Pseudonaja textilis</i>	XM_026704804.1
<i>Rhinatrema bivittatum</i>	XM_029610443.1
<i>Xenopus laevis</i>	NM_001097803.1
<i>Xenopus laevis</i>	NM_001087939.1
<i>Xenopus laevis</i>	XM_041568399.1
<i>Xenopus tropicalis</i>	NM_001016299.2
<i>Xenopus tropicalis</i>	NM_001016299.2(2)
<i>Xenopus tropicalis</i>	BC170775.1
<i>Xenopus tropicalis</i>	BC170801.1
<i>Xenopus tropicalis</i>	XM_031905081.1
<i>Xenopus tropicalis</i>	XM_031905082.1
Caspase8	
<i>Catharus ustulatus</i>	XM_033065450.1
<i>Chelonia mydas</i>	XM_037912477.1
<i>Chrysemys picta bellii</i>	XM_005306249.3
<i>Danio rerio</i>	NM_131510.2
<i>Gallus gallus</i>	NM_204592.3
<i>Homo sapiens</i>	XM_005246892.2
<i>Lynx canadensis</i>	XM_030325757.2
<i>Mus musculus</i>	NM_009812.2
<i>Oncorhynchus mykiss</i>	NM_001281322.1
<i>Oryzias latipes</i>	NM_001104788.1
<i>Oxyura jamaicensis</i>	XM_035332072.1
<i>Rhinatrema bivittatum</i>	XM_029606243.1
<i>Scophthalmus maximus</i>	XM_035635876.1
<i>Tursiops truncatus</i>	XM_019939136.2
<i>Xenopus laevis</i>	NM_001085565.1
<i>Xenopus tropicalis</i>	XM_018097578.2
Caspase9	
<i>Anas platyrhynchos</i>	XM_038166520.1
<i>Chelonia mydas</i>	XM_037881309.1
<i>Chrysemys picta bellii</i>	XM_005293000.3
<i>Danio rerio</i>	NM_001007404.2
<i>Gallus gallus</i>	XM_424580.6
<i>Homo sapiens</i>	NM_032996.3
<i>Microcaecilia unicolor</i>	XM_030185920.1
<i>Mus musculus</i>	CT010400.1
<i>Oncorhynchus mykiss</i>	NM_001124647.1
<i>Oncorhynchus nerka</i>	XM_029622430.1
<i>Ornithorhynchus anatinus</i>	XM_029066662.1
<i>Podarcis muralis</i>	XM_028740558.1
<i>Scophthalmus maximus</i>	XM_035644988.1
<i>Serinus canaria</i>	XM_018924683.2
<i>Vombatus ursinus</i>	XM_027859817.1

<i>Xenopus laevis</i>	NM_001085566.1
<i>Xenopus tropicalis</i>	NM_001123463.1
<i>Xenopus tropicalis</i>	XM_031904803.1

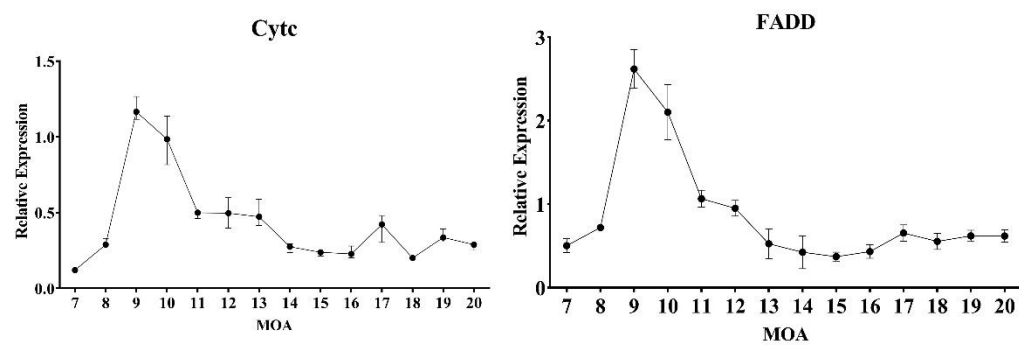


Figure S1. The expression trend of FADD and Cytc genes in the external gill of Chinese giant salamander during metamorphosis