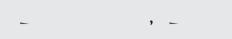


E-mail address:

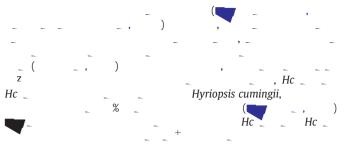
# Contents lists available at SciVerse ScienceDirect





journal homepage: www.elsevier.com/locate/cbpb

Z	Hyriopsis cumingii:	CrossMan
College of Animal Crimers Theirms University House	-,*	
- College of Animal Sciences, Zhejiang University, Hang College of Life Science, Shaoxing University, Shaoxing	g 312000, China	
ARTICLE INFO	ABSTRACT	
Article history:		, .
-		_ Нс _ )
	Z Hyriopsis cumingii Hc , , , , , , , , , , , , , , , , , , ,	_ (
Keywords: Hyriopsis cumingii HC HC _	Hc	-
	Escherichia coli	_ fi +
1. Introduction	+ - + -	-
% Z  -	fi (), fi,	CaLP



#### 2. Materials and methods

# 2.1. Mussel and sample collection



## 2.2. Rapid amplification of cDNA ends (RACE)

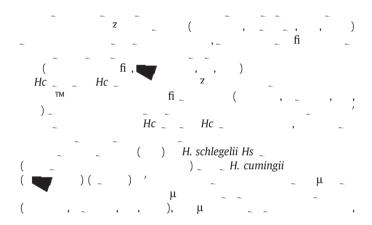
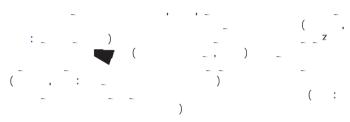


Table 1

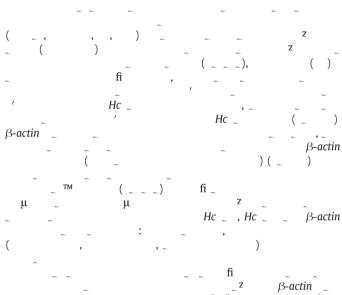
_	1
_	1
_	1
	ı
	,
_	_ fi _
-	_ II _
_	_ fi _
_	
_	-
_	
_	_
_	fi _
	fi _ fi
_	-
	- 6
-	fi _
_	Π
	-
	_
_	-
_	
	_ fi _
	_ 11 _

( , ), _	( μ ), μ μ _ - %	-
fi	fi _	(,
, _), _	() _ Hc Hc _ ,	- fi
,		-

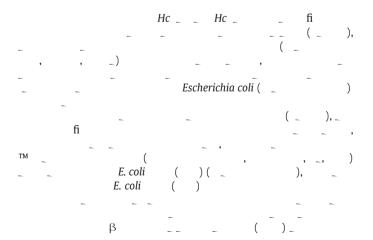
## 2.3. Sequence analysis

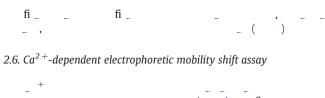


#### 2.4. Tissue specific expression of the HcCaM and HcCaLP genes



# 2.5. Recombination and protein purification of HcCaM and HcCaLP





# 2.7. Calcium stimulation experiment

## 2.8. Statistical analysis

## 3. Results

# 3.1. Full-length cDNAs of HcCaM and HcCaLP



**Fig. 1.** Hc \_ \_ Hc

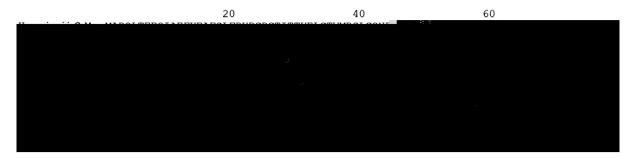
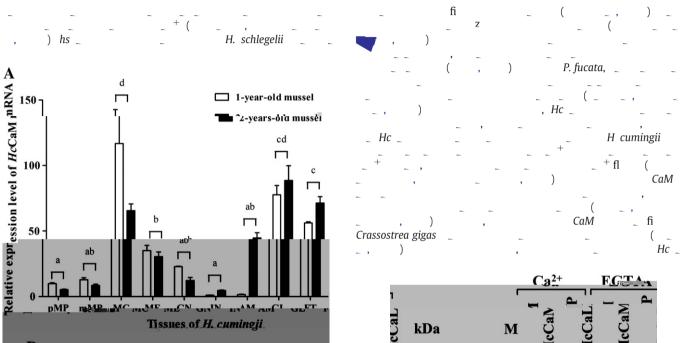
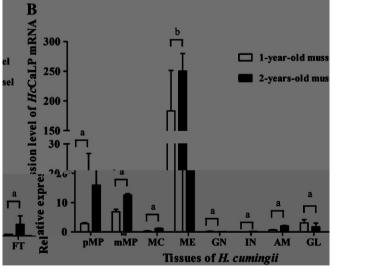
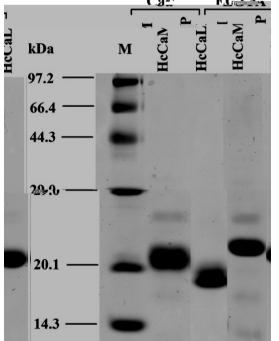
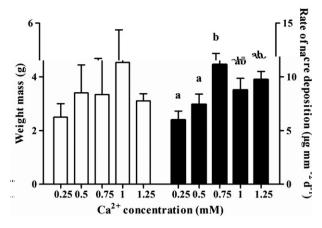


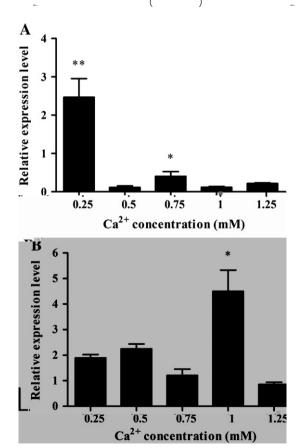
Fig. 2. \_ \_ \_ H. cumingii \_ H. sapiens ( : ) \_ \_ \_ , \_\_, \_\_, \_\_\_











Hc _	H. cumingii	+ -
-	_	Hc _ ,
-	+	Нс
	Нс	, _ ( ), Hc Hc _
Нс _	_ + _ Hc +	H. cumingii +
H. cumingii	,	Hc Hc _
_ fi Hc	Hc _	-
_ , _ Hc	, , , , _ Hc _	-

## Acknowledgments

#### References

Lymnaea stagnalis ( )

z, fi Pinctada margaritifera
fi (Pinctada fucata)

fi , (Litopenaeus vannamei)
fi , (Pinctada fucata)

pinctada fucata

