

C. gigas

(A)

(2007), (2012), (2012). A CA (2014).

A (C 2004). (A) (1995).

(2003; 2007; 2012; 2012). (B A), (1991).

(2001; A 2005, 2009; 2005; 2011; 2014; 2014). (2001).

A 64 A 19 A 486 A A A

B A (2014). B A A A

Materials and Methods

Oyster Materials

A 2011.

2010. A 2012, 110 C 040, C 053, C 074, C 110, C 133, C 195, C 224 (1).

BSA and AFLP Analysis

A A A 100 /μ (B) (B) (1991) A

A (2009), (1995). A

EcoR /*Mse* A 0.1 (10 - C, 0.1 A, 8.0), 2.0 μ A A 1.5 % 1:10 C 6 % A A 10-

Cloning of AFLP Markers

A A (1996). 30 μ 0.1, 15-30 10, 000 1

A A (), B -19 (), AB 3730 A (A B). A A (A).

Table 1

A	
A	
A	225
	6078
	1580
	69
	86
	6
	7
B	3
CA / /	

Conversion of AFLP Markers into Single-Locus Markers

C. gigas (// /).
 B A
 A
 C (2 - 2)
 A
 A
 5.0
 (//)
 (C)
 10-μ (), 1 C , 0.8
 , 0.5 μ , 1.5 C₂
 50–100- A. C

Table 2

C		A		
		()	(n=61)	(n=49)
9 252	E-A C/M-C	252	60	3
7 200	E-AA /M-C	200	7	46
7 270	E-AA /M-C	268	5	46
8 270	E-AA /M-C A	271	55	3
4 355	E-A /M-C A	356	56	5
2 380	E-A A/M-CA	379	2	47
11 375	E-A A/M-C	376	58	2

Eco - *Mse* - A

()

E *EcoR* *M* *Mse*; “-,”

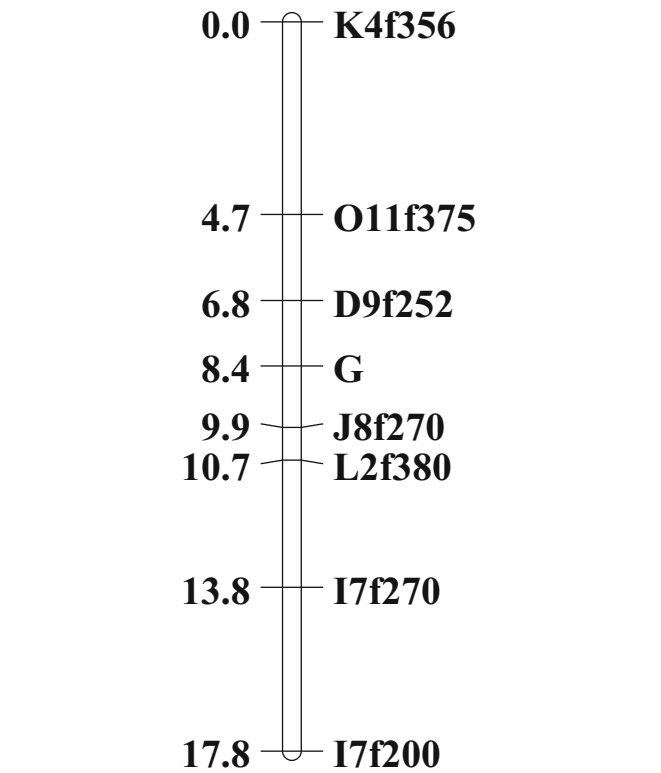


Fig. 1

A
 G
 94 C 5 , 35 A
 (94 C, 45 ; 55 C, 45 ; 72 C, 45),
 72 C 10
 (CA) 1.5 %
 () 6 %
 () C 480
 C

... () ... (2013).
A ... *F*

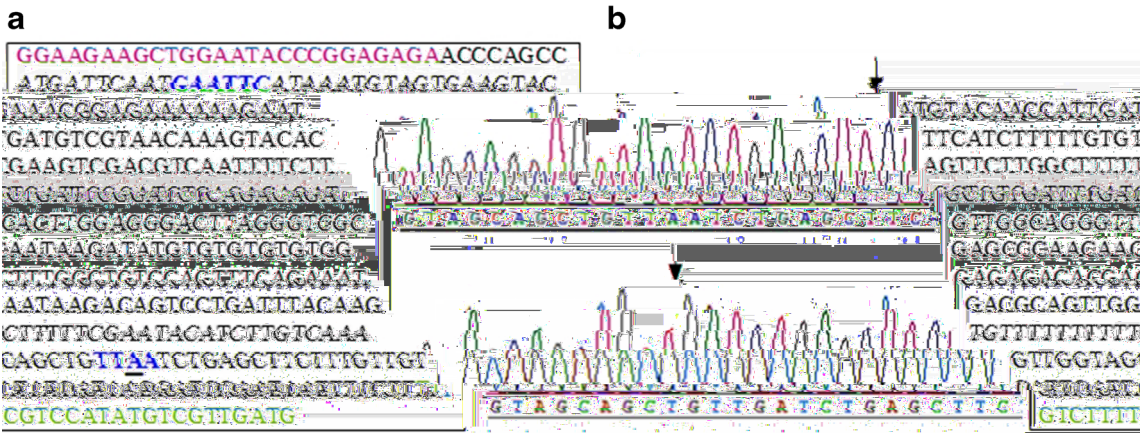


Fig. 3 C A 2 380. a A color. A A / underlined. b A A / A A Mse Mse () blue color. B EcoR Mse red

C - , B 7 200 7 270 363 461, CA (2), CA C Mse Eco A CA .B .C A 4 355 (2). 9 252 8 270 (268 1062). A 268

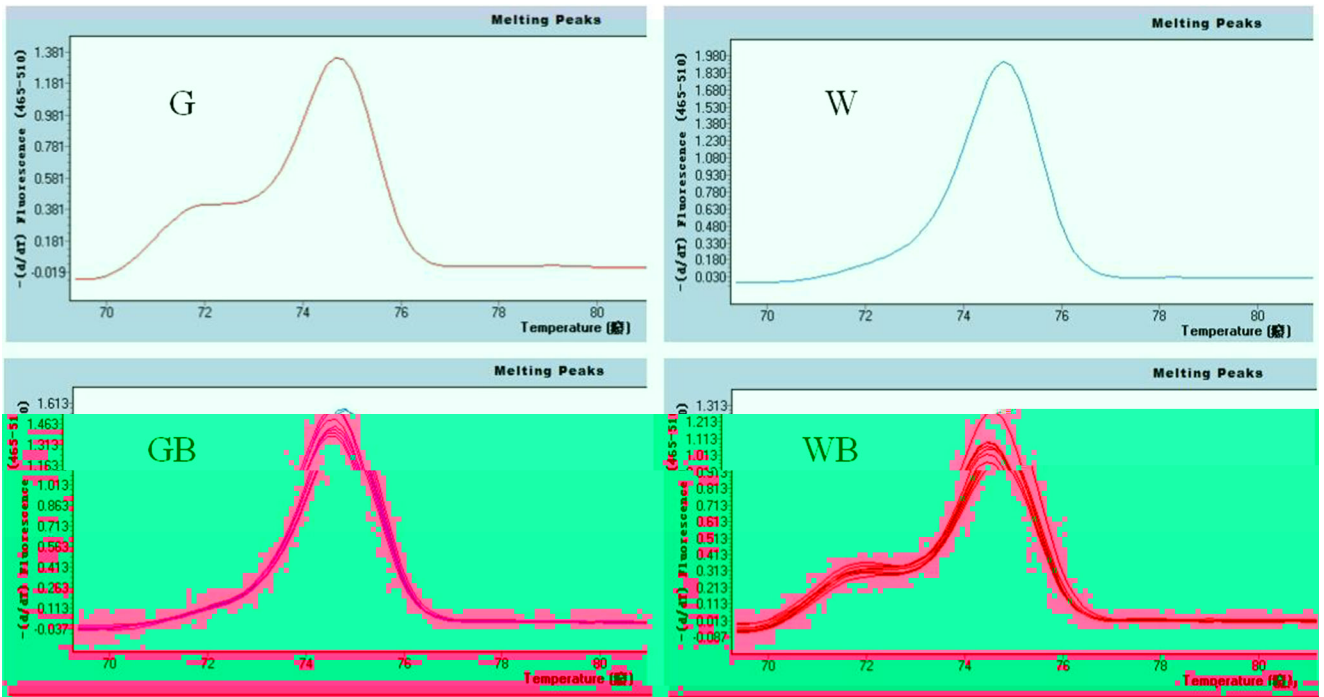


Fig. 4 2-4 . G , W , GB . WB.

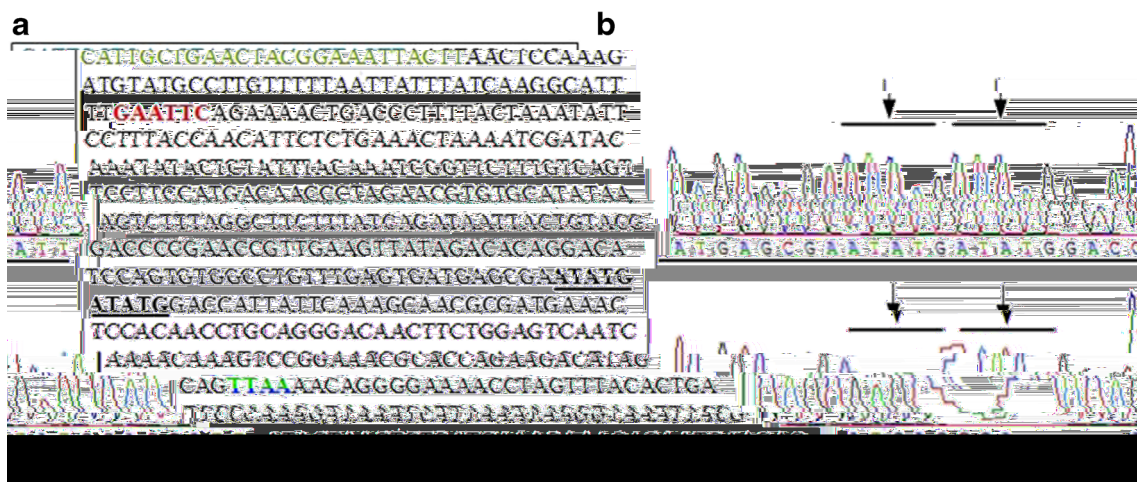
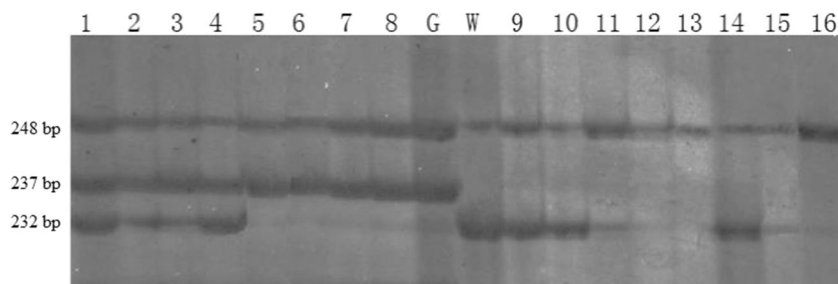


Fig. 5 C A 11 375. a A red color. A () underlined. b blue color. B EcoR Mse C A A ()

CA (3). 1062 375 C Eco Mse (5). A 11-2 (3). 354 22 380 22 A (6). A 237- 232- (237-5) 248- Mse Eco A (3). A (4). 2-4 **Discussion** (3). 5 11 375 A B Eco Mse (2015).

Fig. 6

11-5 G W lanes 1-8. lanes 9-16.



()

1:1

Gw *ww*

A CA (-170)

(. 2014). -170

A

()

. 2015).

A

C 2004).

A

- A C, C, C, (2009)
 (Oncorhynchus kisutch). A. 296:21–26
 B (1998) C A
 2 C
 A 97:960–967
 B C (2004)
 Crassostrea gigas. A. 229:89–98
 B. B, (2003)
 A A A™ 31: 55
 C, B, C. (1996) C
 A
 (A)
 39:373–378
 C (1975)
 Urosalpinx cinerea. 257:794–795
 A (A) (2014),
 2012., A
 A, A, (2005) A A
 (Oncorhynchus mykiss). A. 247:35–43
 (2014) CA
 (Crassostrea gigas). A. 434:249–253
 (2015)
 Crassostrea gigas. A. 441:21–24
 (2012)
 14:218–226
 (1975) C
 Cepaea nemoralis (). 19:29–38
 (1977)
 68:203–204
 A C, (2013)
 C
 Crassostrea gigas, A -A
 A 26:1659–1664
 A (2004)
 hannai. 23:1153–1156
 (1944)
 A 12:172–175
 C (2009) A
 Apostichopus japonicus (), A
 A 40:678–685
 (1990)
 Lottia asmi () Lottia
 digitalis () (). B
 140:173–185
 C (2004) A
 A. 238:1–37
 (2009) A
 Haliotis discus hannai
 28:419–424
 (2011) CA
 Saccharina japonica
 ().
 A 23:709–713
 (1991)
 A 88:9828–9832
- A, A, (2001)
 (Oncorhynchus mykiss). 265:
 687–693
 A (2001) A
 63:14–25
 B, A, B (2012) A
 (Nodipecten
 subnodosus):
 A. 350:200–209
 C, (2004) CA CA
 CRb, Plasmodiophora brassicae
 C (Brassica rapa . pekinensis). A
 108:1458–1465
 (2007)
 Argopecten irradians irradians
 (, 1819). B. 9:66–73
 A, (1999) A
 37:3083–3091
 B (2009) C
 C - CA
 32:564–567
 B (2000)
 Littorina saxatilis.
 B. 245:1–23
 (2001). 3.0:
 B, (1995) A
 A A 23:4407–4414
 A (1990)
 Pinctada fucata
 martensii B
 56:1787–1790
 C, (2014) A
 Vibrio anguillarum
 (Paralichthys olivaceus)
 B. 16:513–521
 B, (2001)
 Argopecten purpuratus (B
). 92:521–525
 C (2009) A
 30:857–859
 A, (2007) A
 A
 127:177–187
 CA
 Brassica napus
 50:611–618
 (2003)
 Crassostrea virginica B. B 204:327–338
 (2012) A
 chlamys nobilis
 31:33–37
 B (2014) A
 A
 34:1245–1260
 (2012)
 Chlamys nobilis (B).
 A. 1:1–7
 (2013)
 Crassostrea gigas,
 A. 44:455–465