Figure 1

A

Fh8 **M P S V Q E V E K L L H V L D R N G D G K V S**

Frag H **M P S V Q E V E K L L**

Fh8 **A E E L K A F A D D S K C P L D S N K I K A F**

Fh8 **I K E H D K N K D G K L D L K E L** V S I L S S

B

Fh22 M T T A Y K L H D V E S L I D W F M E L D K N N
FRAG H M T T A Y K L H D V E S L I D W F M E L

FH22 D E A V D K K E L T A Y Y K S K G V S D S K I N E

FH22 W M E H F D A D S D G K I T L M E F C R G L G L R

FH22 I D E V R V E Q K Q P P L Q R A G T A P A L G T D

FH22 I E M I A T T M S Q P R Q V E V T E K F K S L V T

FH22 A H N G K D E E M K D V A H E L K T F L D D T Y G

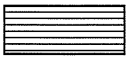
FH22 R V W Q C V I L T G S Y W M Q F S H E P F L S I Q

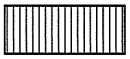
FH22 F R Y G R Y I C L A W R T P R G

Figure 2

 - structural element H

 - protein of *Fasciola hepatica* containing the H fragment

 - human IL5 fragment (sequence with 48 aa in length corresponding to an exon of human IL5)

 - CP12 fragment (sequence with 73 aa in length from a wall protein of *Cryptosporidium parvum*)

 - TgOWP fragment (sequence with 122 aa in length from a wall protein of *Toxoplasma gondii*)

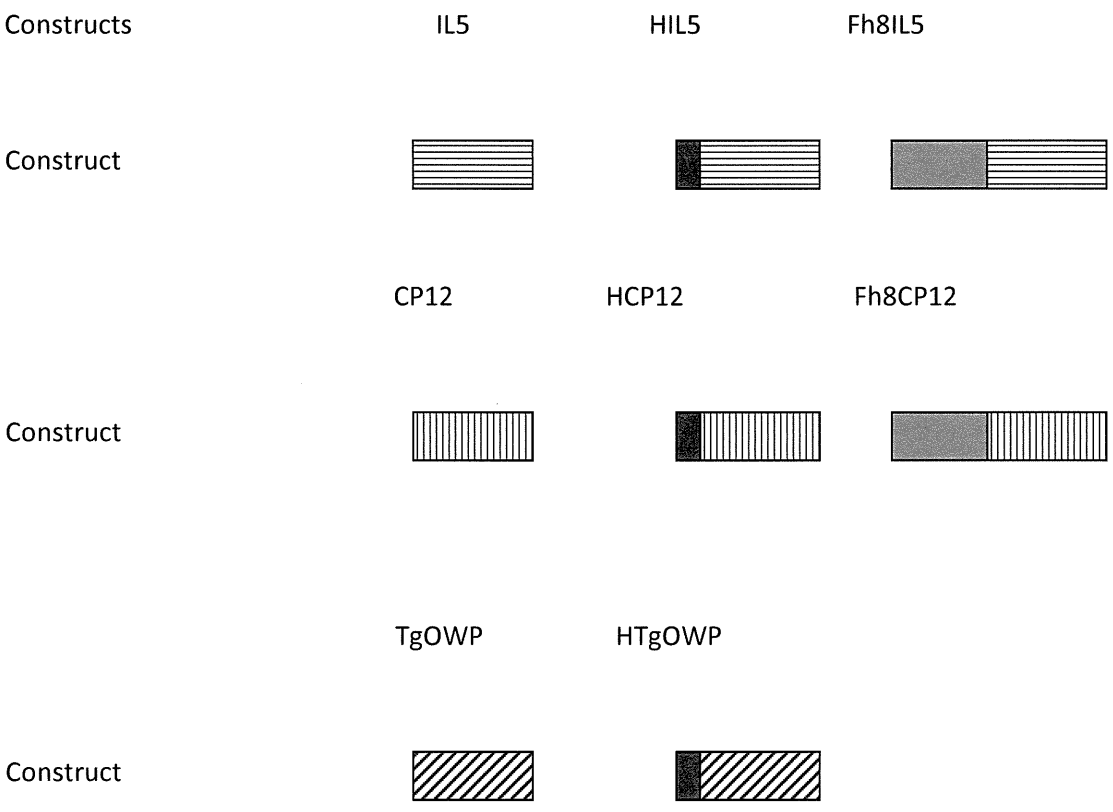
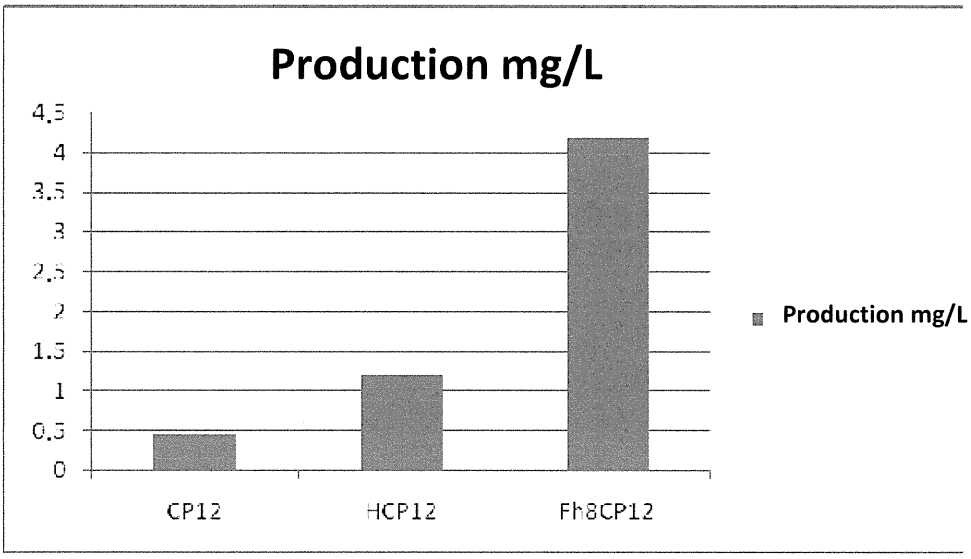


Figure 3

A


Production mg/L
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
CP12
HCP12
Fh8CP12
Production mg/L

B

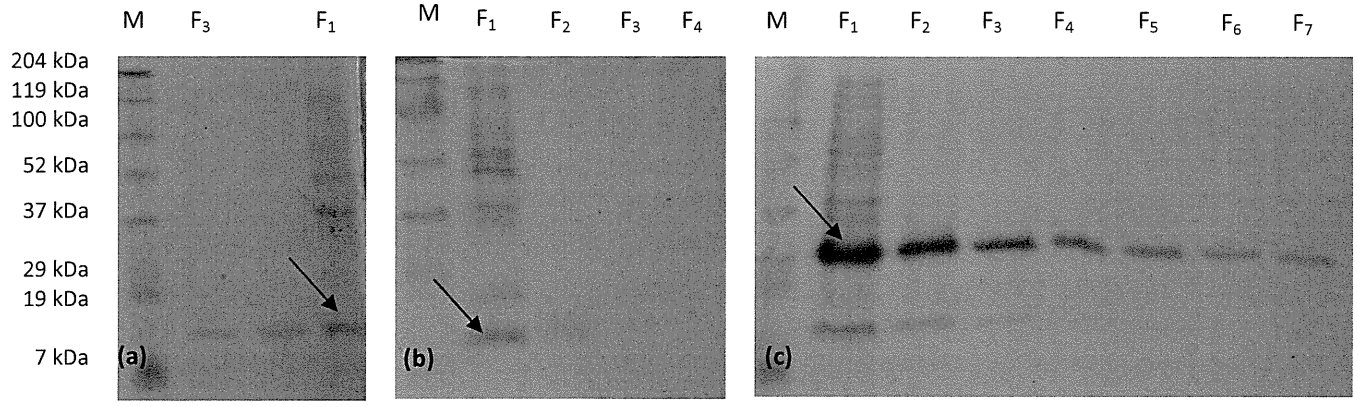
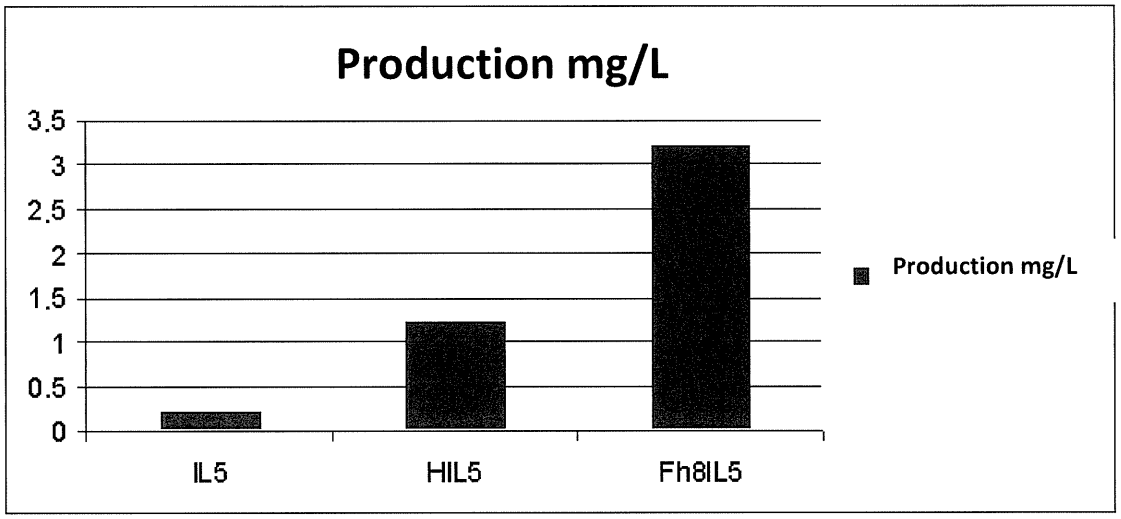

M
F3
F1
M
F1
F2
F3
F4
M
F1
F2
F3
F4
F5
F6
F7
204 kDa
119 kDa
100 kDa
52 kDa
37 kDa
29 kDa
19 kDa
7 kDa
(a)
(b)
(c)

Figure 4

A


Production mg/L
3.5
3
2.5
2
1.5
1
0.5
0
IL5
HIL5
Fh8IL5
Production mg/L

B

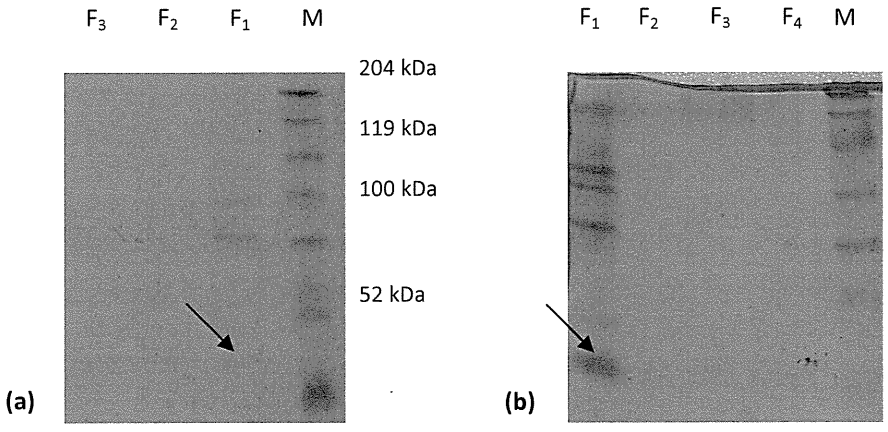
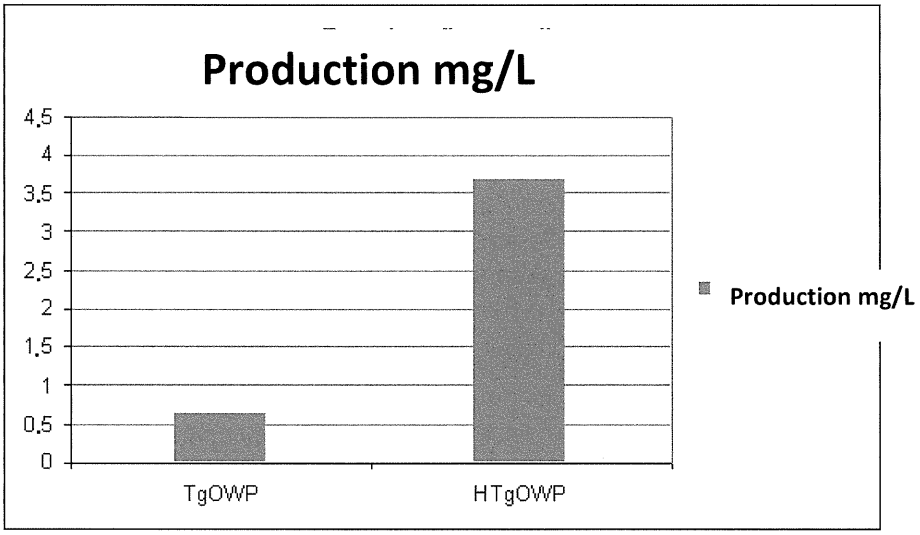
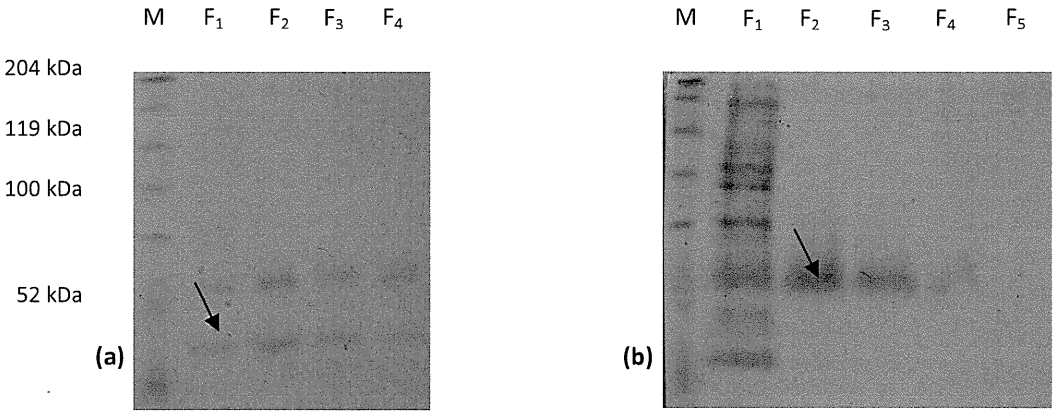

F3
F2
F1
M
204 kDa
119 kDa
100 kDa
52 kDa
(a)
F1
F2
F3
F4
M
(b)

Figure 5

A


Production mg/L
4.5
4
3.5
3
2.5
2
1.5
1
0.5
0
TgOWP
HTgOWP
Production mg/L

B


M
F1
F2
F3
F4
204 kDa
119 kDa
100 kDa
52 kDa
(a)
M
F1
F2
F3
F4
F5
(b)