

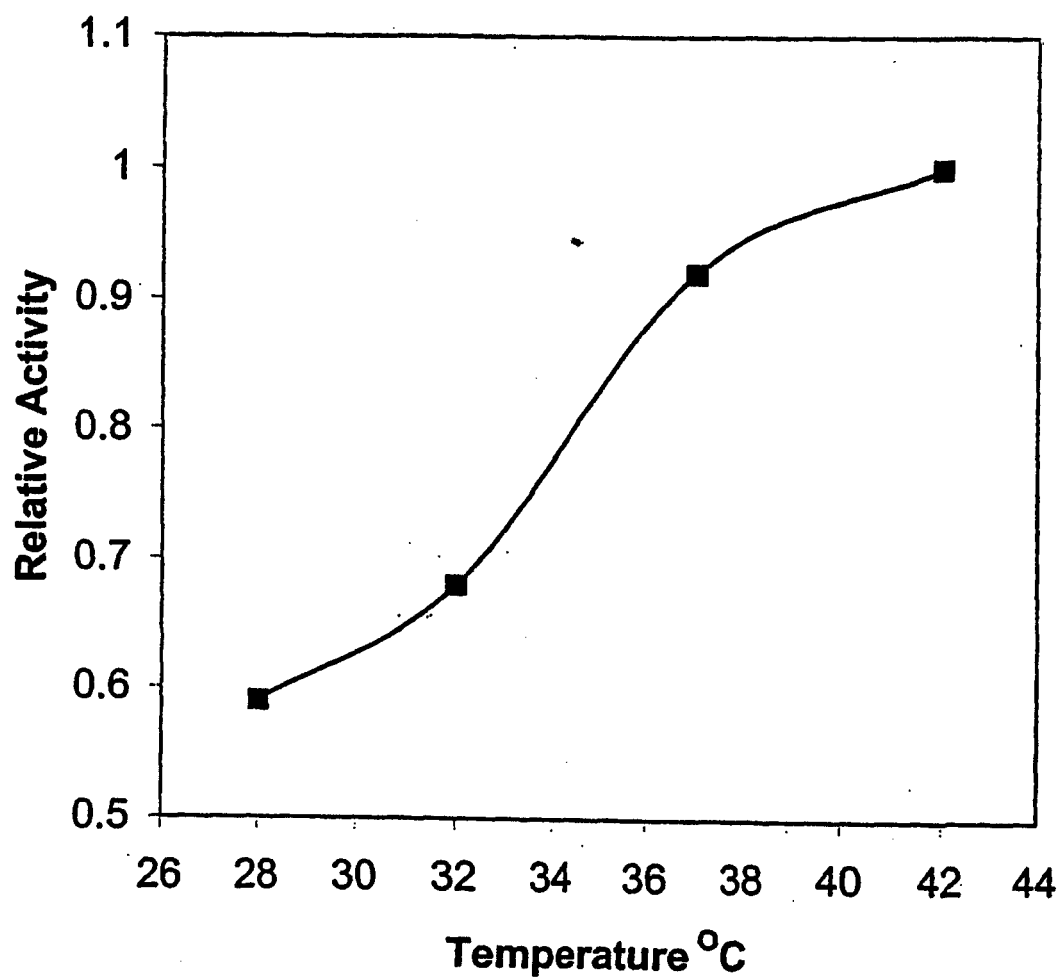


FIG. 1

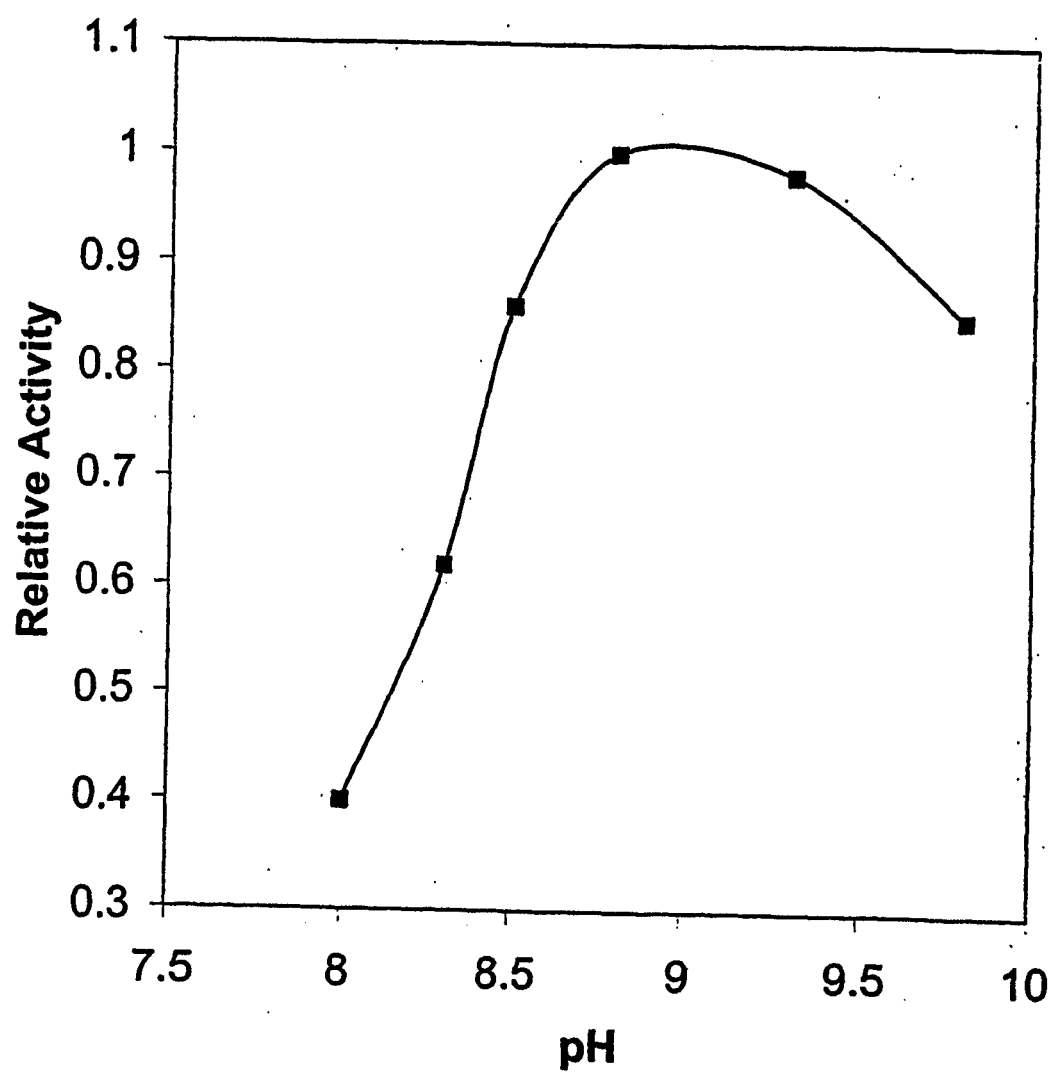


FIG. 2

5'- ALA, LYS, VAL, ILE, LYS, GLY

SEQ ID NO:9

5'- GC(X), AA(GA), GT(X), AT(ACT), AA(GA),GG-3'

SEQ ID NO:8

Inverse:

5'- CC(TC),TT(AGT), AT(X), AC(TC), TT(X), GC-3'

SEQ ID NO:10

Probes:

1. 5'- CC(TC),TT(AGT), AT(C), AC(TC), TT(X), GC-3'

SEQ ID NO:4

2. 5'- CC(TC),TT(AGT), AT(T), AC(TC), TT(X), GC-3'

SEQ ID NO:5

3. 5'- CC(TC),TT(AGT), AT(A), AC(TC), TT(X), GC-3'

SEQ ID NO:6

4. 5'- CC(TC),TT(AGT), AT(G), AC(TC), TT(X), GC-3'

SEQ ID NO:7

FIG. 3

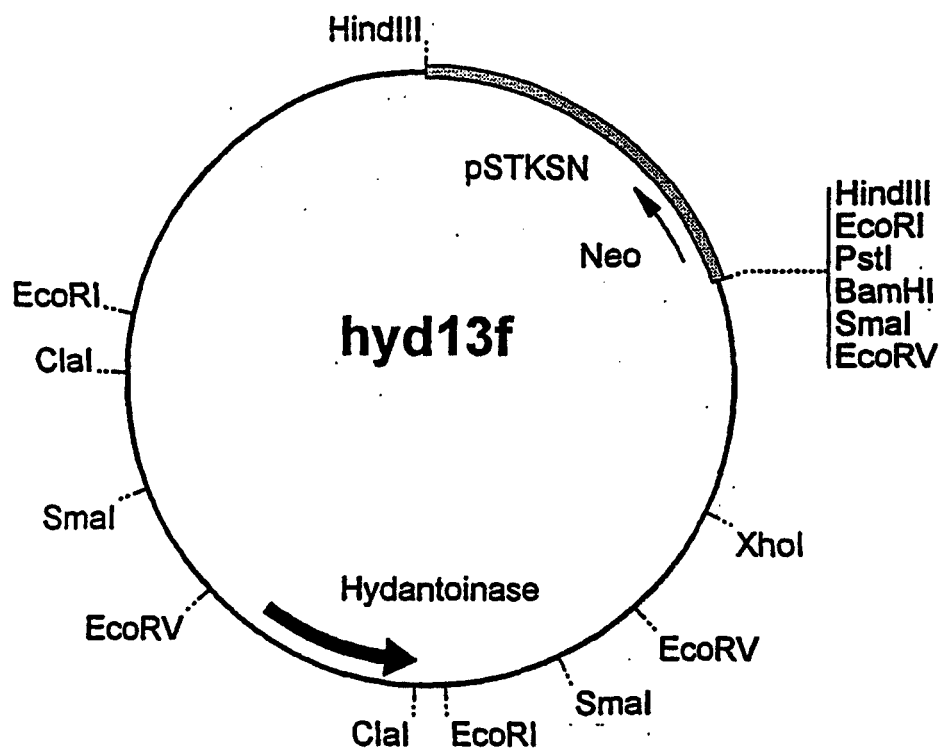


FIG. 4

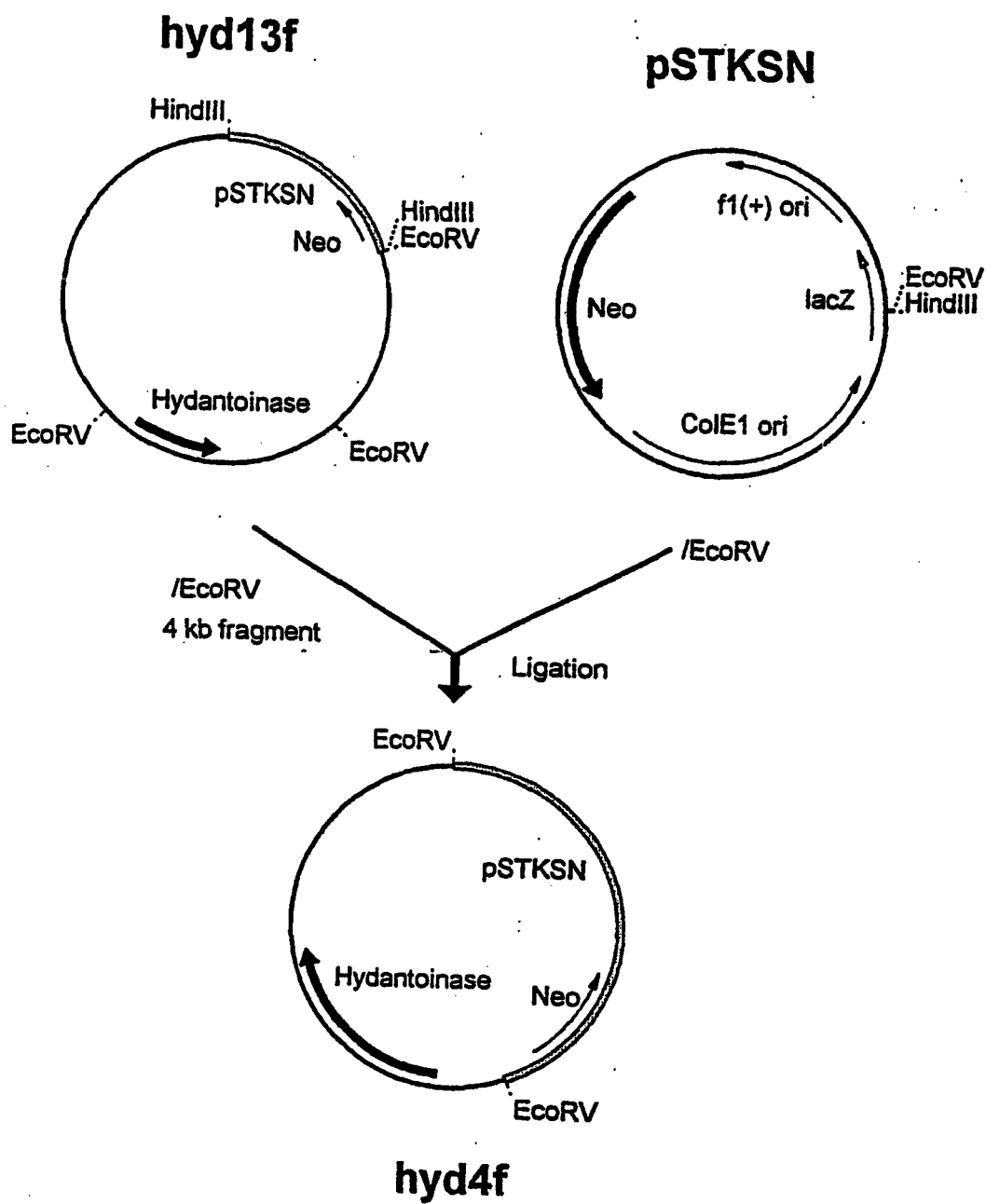


FIG. 5

HYDANTOINASE

60	G G G G C A T T T C G A C C C G T G A C A T T C G A C A A T G G C T G C T G G A G G C T A T C C G C A T G C G C	1140	G C C A G A A G G A A T G C G C G T T T T C G C G A G C C C T G A T C C A G A T C T G A C A G C T G C A T G A A A Q K G M R V F G E P L I Q H L T L D E S
120	G G A A C G G C T T G G C T A C A G C C A C C A A T A T C G T T T C G G G C G A G C C A T A T A T G C C T G C T G	1200	G C G A A T A T C A C A A C C G G A C T G G G A C T A T G C G C C C G T C G C G T C A T G T C G C G C C G C C T T C C E Y H N R D W D Y A A A R R V M S P P F R
180	G G T C A A T G C C T G G C A C C G A C C G C A T G G T C A T G T G C C C T G C T G C T G A T G G C C T C A G C C A	1260	G T G A C A A G C C A A T C A G A C A G T C T T T G G C T G C C T T G C G G A G G A G C C T G C A A T G C G D K A A N Q D S L W A G L A A G S L Q C V
240	T A A C G A G A C A G G A C A T T T C G A A A G A A T G G C G T C G G C G G A A C C G A C G T G C T T C T G C A	1320	T T G C A C T G A C C A T T G C G C T T T C A C C C G A G A A G C G T A C G G A C T A C G C A A T T T C A A T D H C A F T T E Q K R Y G I G N F T
300	T G C A G T A T T G A G A C C G T G A A A T T G T G A T T G A T T T C G G C T T C T C C G A T A C T G C T A C T	1380	C C A G A T T C C A A A C G G T G G C T G A A G A C G A T G C G G T G C G T G C T G T G G T C G C G C G K I P N G T G G L E E R M P V L W S R G
360	G T T C G C A A A A C C A A A G G G A A C A C G A C A T G G C A A G G T C A T C A A A G G C G A A	1440	G C G T C G C A C C G C T A A A G C G A C C T T T C A T C A A G C G A A G T G C T G C C G T T A C C T C A A C C A A C A T C G V I T A D R T F K A D V L I E G E K I V
420	C G T C A T C A C G C T G A C C G A C C T T T A A G C G A T T G T T C A T C A A G C G A A G A T C G	1500	C C A G A T A T T G A A C T A T C C G A A A G G C C G T T C T G C G G T G C G A T G C G A T C K I L N I Y P Q K G A V L P G A D A D L
480	T T C C G T G C G C A C A T C T C C G C G A G A G T A G T A T G A T C A T C C G C T G C T A T A C A	1560	T C G T C A T C T G G A C C G A G C C A C G A A A G G T T C G C A A A G A C C A G C A T T C C T C C A V I W D P E A T T R K V S A K T Q H S S I
540	T G C C G C G C A T C G A C C G C A C C A T T G C A G A T G C C T T C A T G G C C A C T A C T	1620	T C G A T A C A A C G T T T C G A G G C T T T G A A C T A A G G C C T G C G A A G A C G C T T T C C C D Y N V F E G F E L K G L P K M T L S R
600	C C G A C A T T T C A T C C G C A C C G C C G C T T G C G G C G G C A C C A C G A T G T G T G	1680	G C G G C G G T T C T T T G A C A G G T A A G T C A C G G A A C C C G C G A C C C G C G A C G C T T C A G R V A F D K G N V T A E P G D G R F I
660	A T T T G T C T G C C G C T G G A G G C A T C T T C T G A A G C T T G C A A G C T T G C A A A T G T T C C A G A	1740	T C G A C G C G A G C C A A T G G C C C T C A A T C G G C G C T G T C G C A T G S A A G A A A T C G T T G E R E P N G A V N R A L S Q M K E I V A
720	A A G C G G A A G G C G C A C C G A C T A T T G T T C A C A T C A C C A C C G C T G G A A C G A G C	1800	C G C G C G C A A G T G G A G C G A C C C G A C A T A T G C C A T A G G G T C T G A C A C A T G G C C A T P R K V E R S A E H M P I G V * (SEQ ID NO:2)
780	G A C C T T C A C A A T G C C A A G T G T G A G C G C G A C C A C A C C T T C A A G A T T C A	1860	C G T C A C G T T C G G A A C C G C A T A G T T T A A T A C A G A C T G G C C C C G A A G G G C G A G G
840	T G C T A C A A G G C G C T G A T G T G A A C A T A C A G A T T T G C T T G T T C C A G C G C T	1920	C A A T G C G A G A C C G T A T C G A C A T C A A G A C C T G T C G T C T C T C T C G A G A C A A T G A C G A Y K G A L M V N D D E M F A S F Q R C
900	A E L G A M P L V H A E N G D I V A Q L	1980	G G C C G T G C A T G C G C T G T C G A T A T C G A T C T C G C C C G T C A G G C C G C G A G T T C G T T C C T T A E L G A M P L V H A E N G D I V A Q L
960	T G C A G G C G A A G C T G A T G C C A A G C A A T A C A G G C C C G A A G C C A T G C C T A T T C C G C C	2040	C A T C G G C C C T T C G G A T G C G G A G A C A A C G T T G A T G C G T G C T G C C C G A T C T C G A A C G Q A K L M A E G N D G P E A H A Y S R P
1020	C G C C A A G T C A A G G C A A C C A C C A C C G C C A T C A T A T T G C G A T T C A G G C A G G C	2100	G C C T A C C T C C G C T C C G T C A C C G T A A A C G G A A A C A C C G A A C A A G C C C C T C G A C C G P E V E G E A T N R A I M I A D Q A G V
1080	T G C G C T C A T G T G C A T G T C T C T G C A A C A A G C A A T A G G C A T C C G C G T G G C	2113	G T C T A T G G T A (SEQ ID NO:1)

FIG. 6

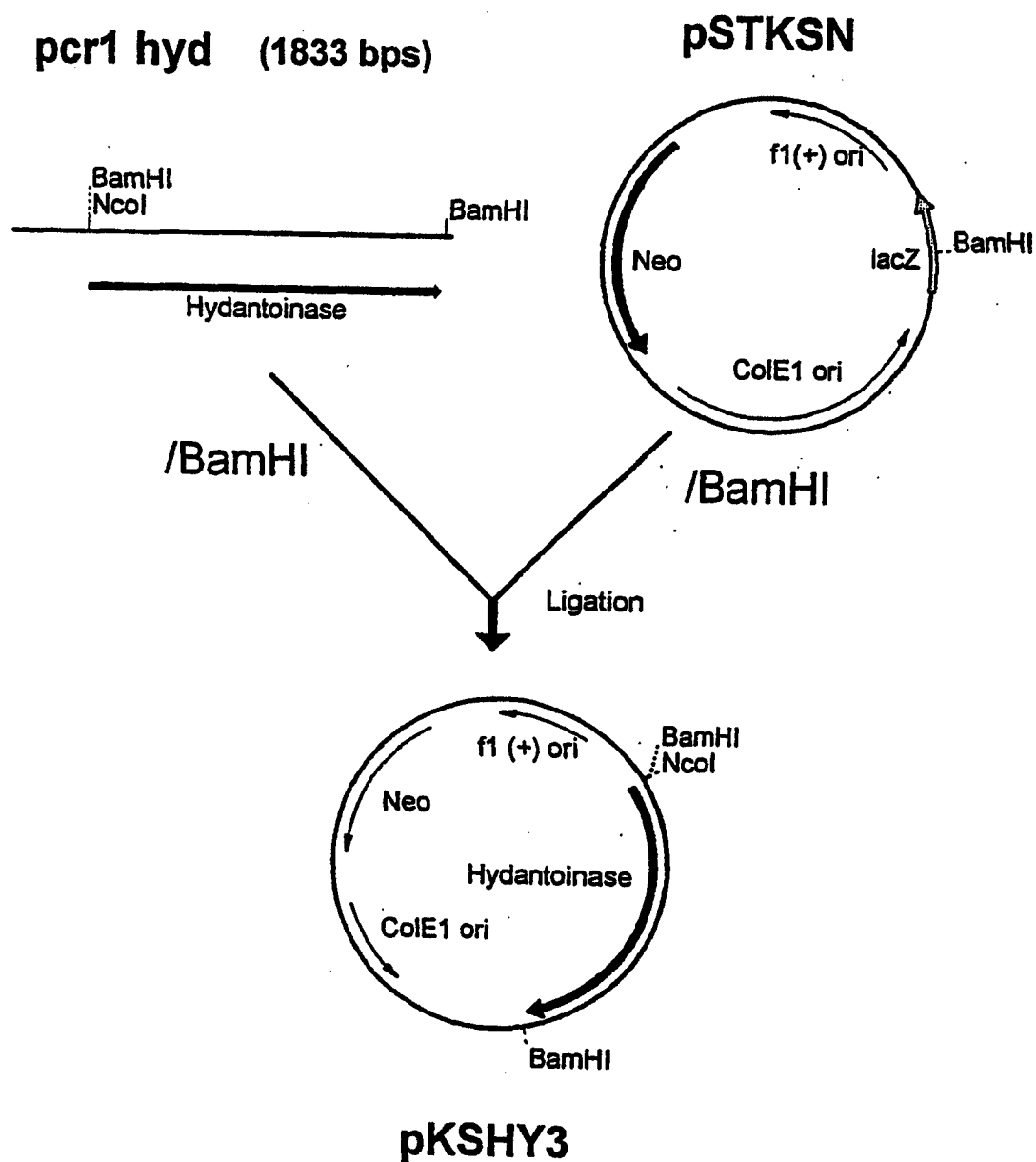


FIG. 7

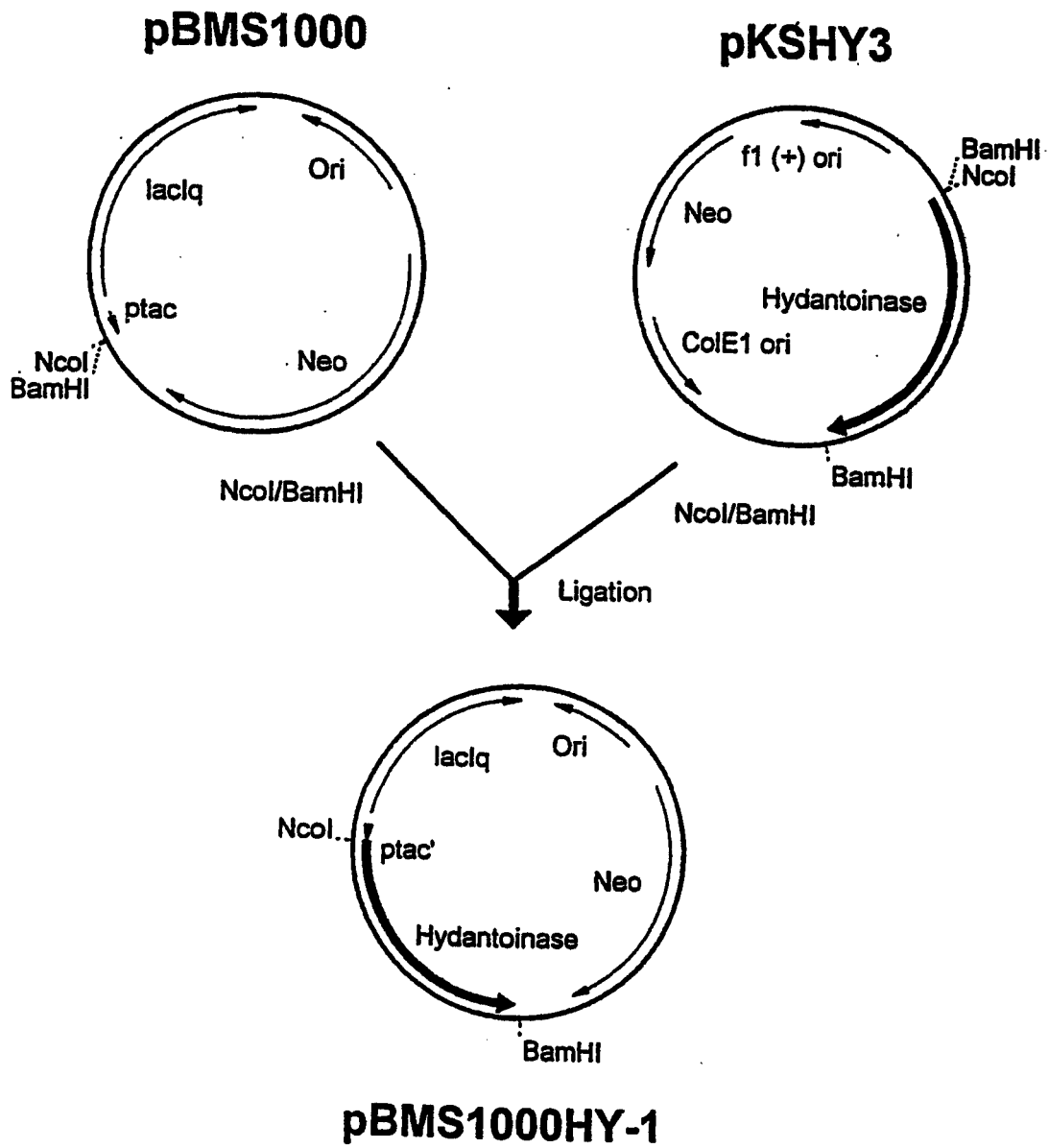


FIG. 8