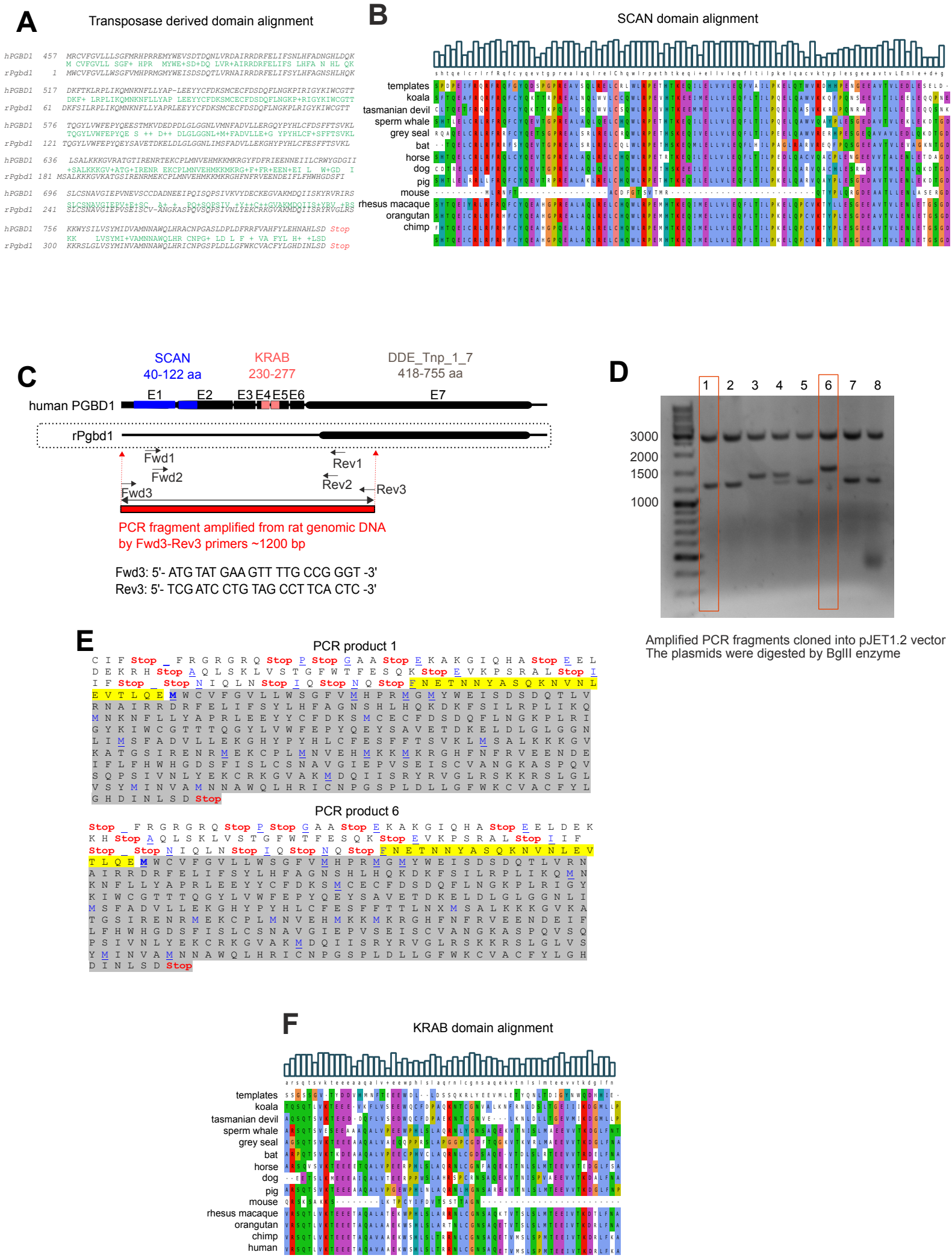
A
Transposase derived domain alignment
B
SCAN domain alignment
templates
koala
tasmanian devil
sperm whale
grey seal
bat
horse
dog
pig
mouse
rhesus macaque
orangutan
chimp
C
SCAN
40-122 aa
KRAB
230-277
DDE_Tnp_1_7
418-755 aa
E1
E2
E3 E4 E5 E6
E7
human PGBD1
rPgbd1
Fwd1
Fwd2
Fwd3
Rev1
Rev2
Rev3
PCR fragment amplified from rat genomic DNA
by Fwd3-Rev3 primers ~1200 bp
Fwd3: 5'- ATG TAT GAA GTT TTG CCG GGT -3'
Rev3: 5'- TCG ATC CTG TAG CCT TCA CTC -3'
D
1 2 3 4 5 6 7 8
3000
2000
1500
1000
Amplified PCR fragments cloned into pJET1.2 vector
The plasmids were digested by BglII enzyme
E
PCR product 1
PCR product 6
F
KRAB domain alignment
templates
koala
tasmanian devil
sperm whale
grey seal
bat
horse
dog
pig
mouse
rhesus macaque
orangutan
chimp
human