

FIG. 1

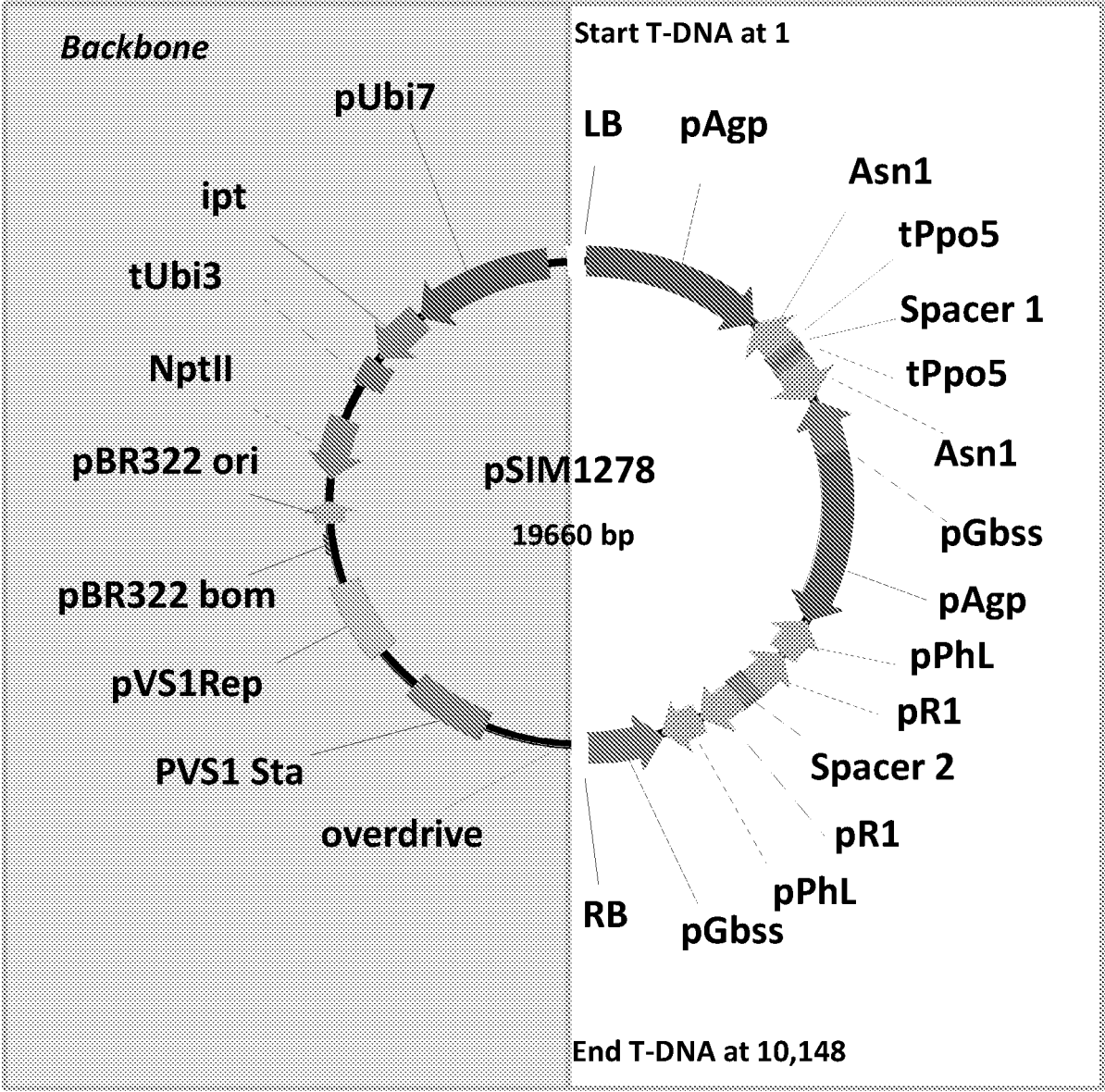
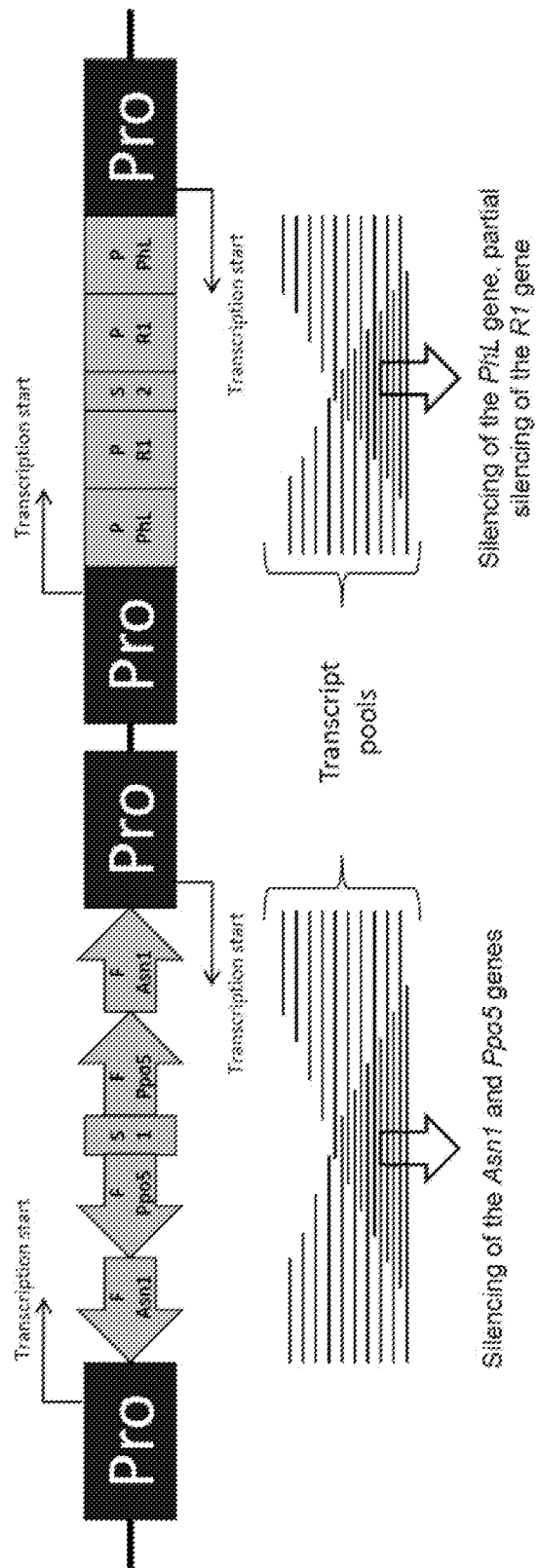


FIG. 2



{Pro = functionally-active promoter, F = gene fragment, S1 = spacer 1, P = non-functional promoter fragment, S2 = spacer 2}

FIG. 3

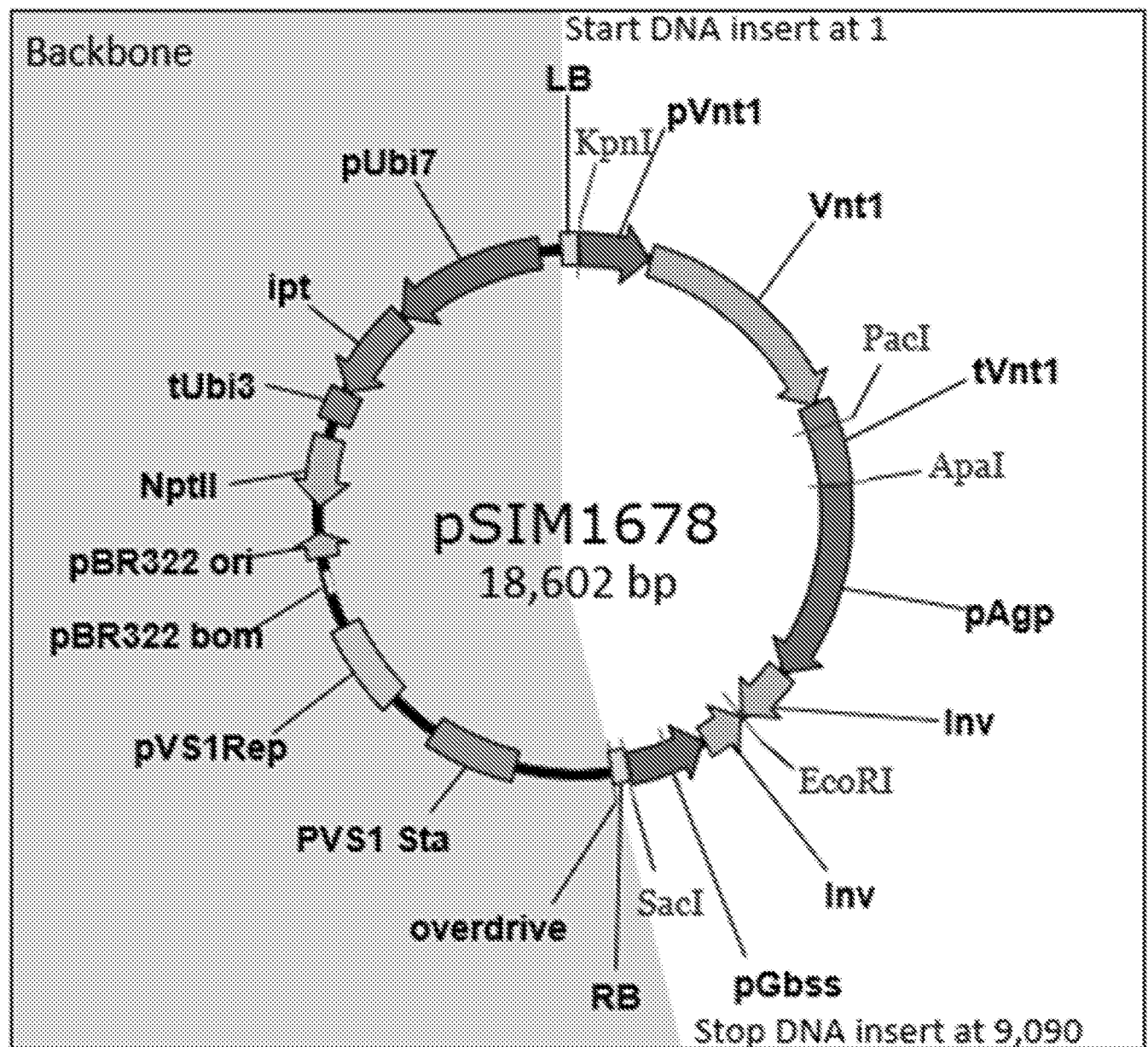
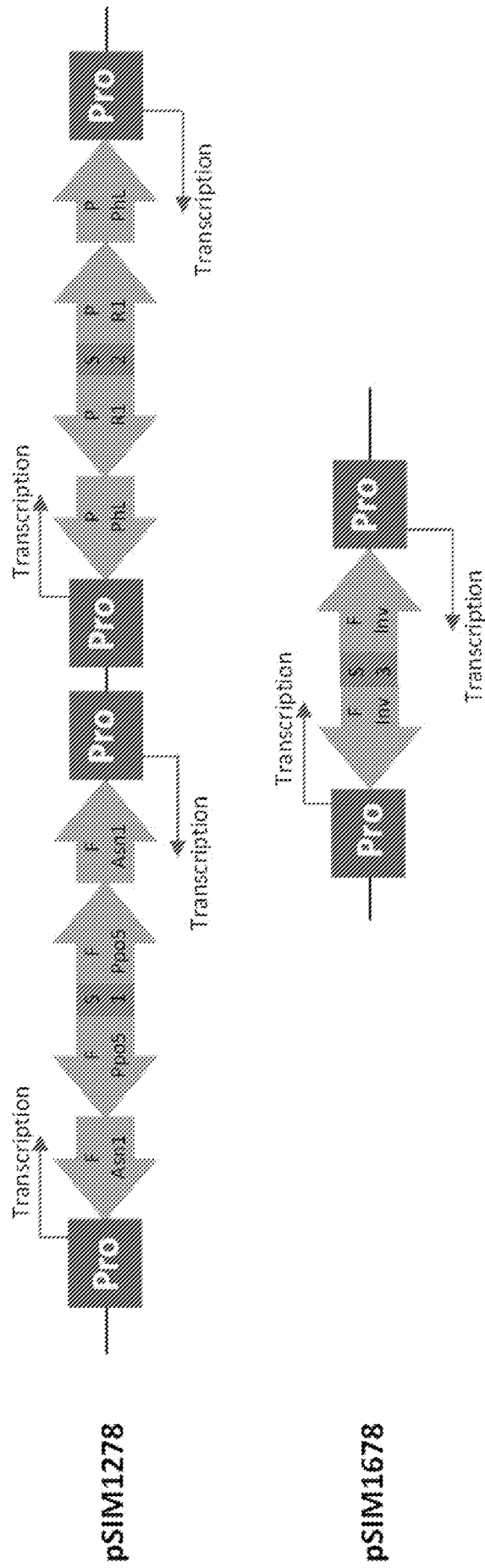


FIG. 4



(Pro = functionally-active promoter, F =transcript fragment, S1 = spacer 1, P = promoter fragment, S2 = spacer 2, S3 = spacer 3)

FIG. 5

1. Deleted T-DNA region between the SacII and SphI restriction sites of pCAMBIA1301.

2. Inserted new T-DNA region between the SacII and SphI restriction sites adding KpnI and SacI restriction sites.

3. Inserted ipt cassette (pUbi7, ipt, tUbi3) into SacII restriction site.

4. Deleted DNA between KpnI and SacI. Inserted T-DNA region assembled from potato DNA sequence (FIG. 6) into KpnI and SacI.

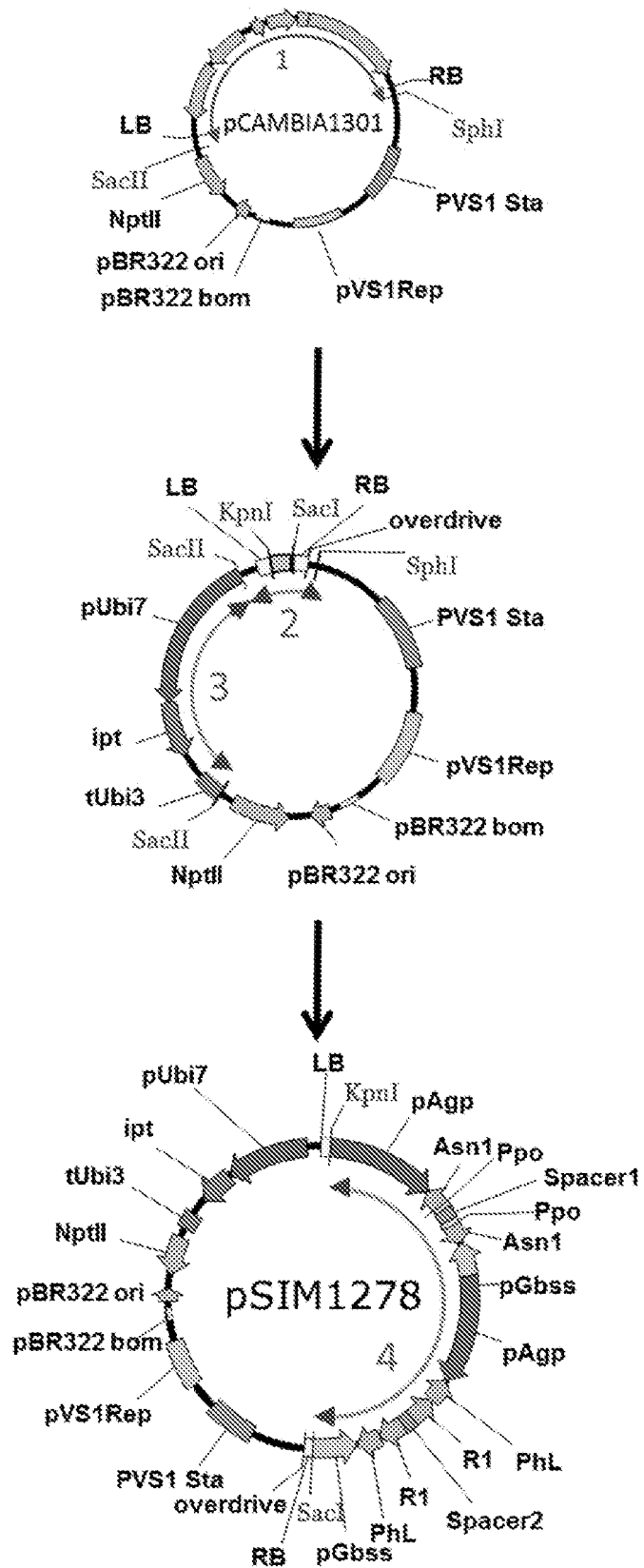


FIG. 6

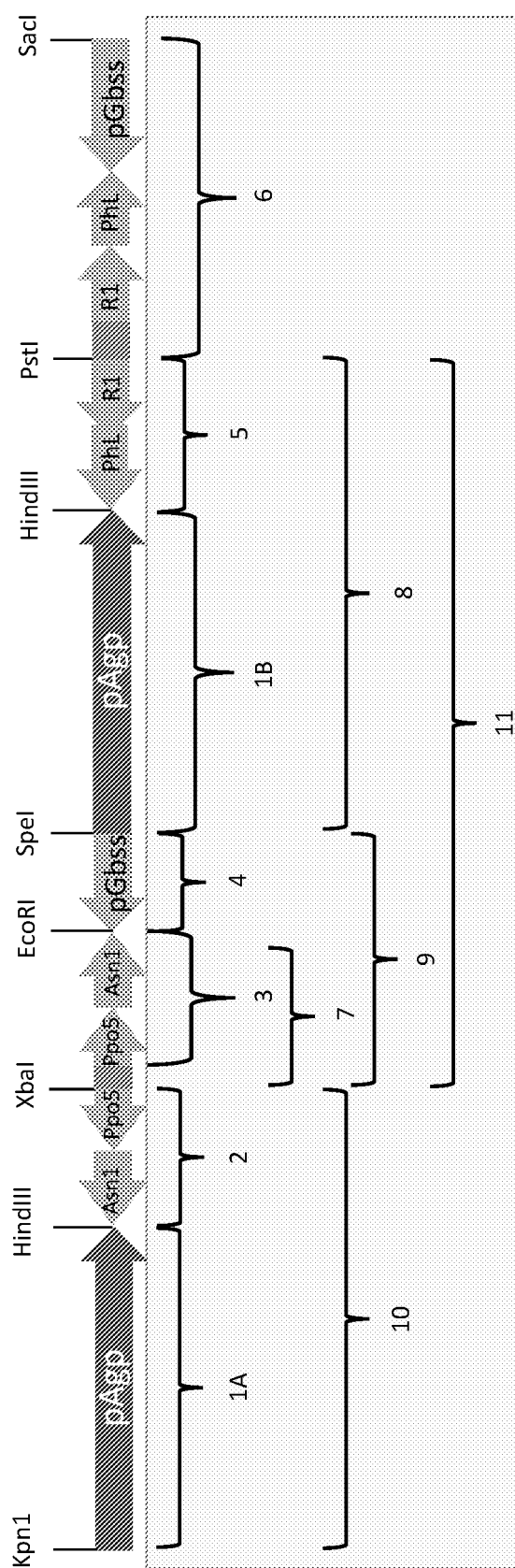
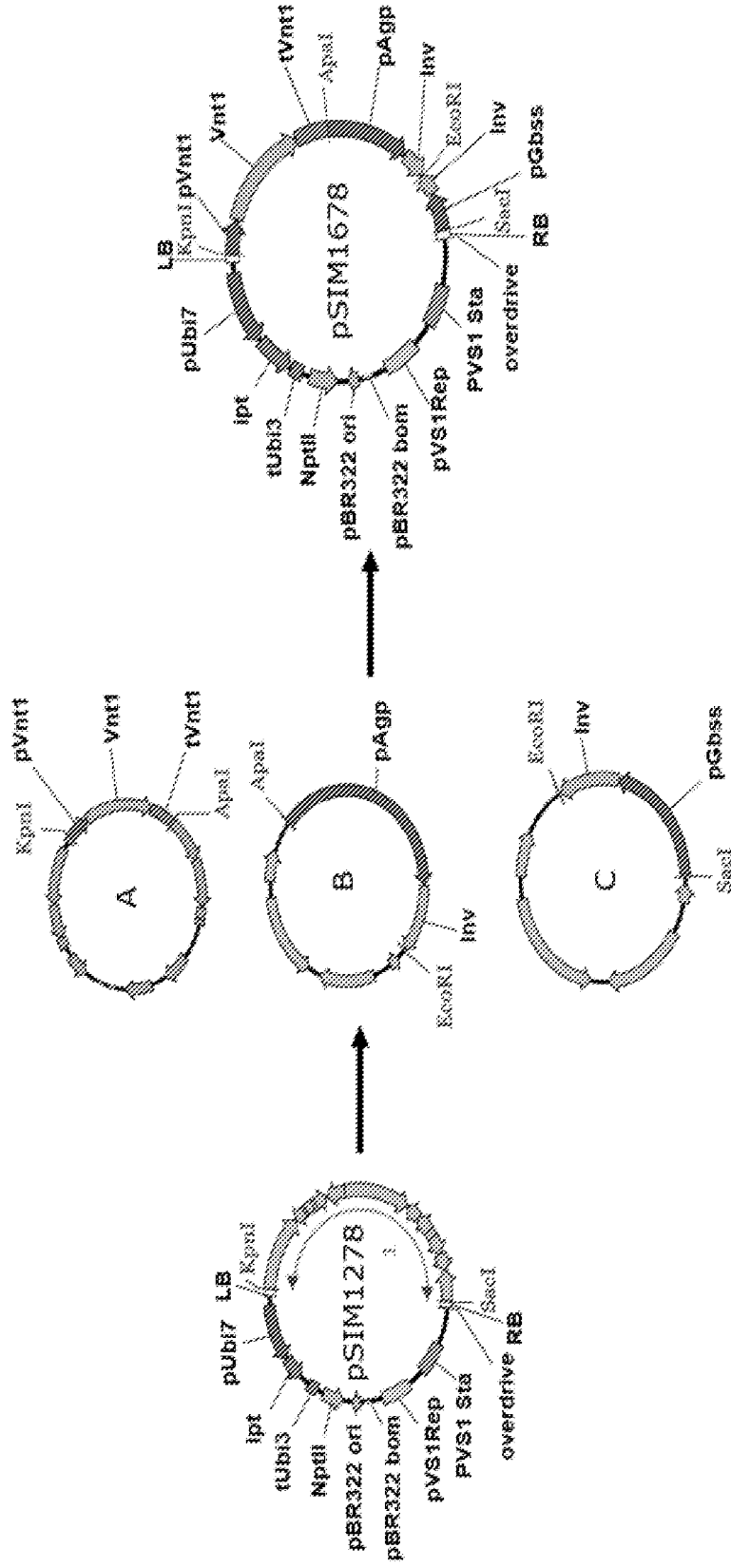


FIG. 7



1. Deleted T-DNA region between the KpnI and SacI restriction sites of pSIM1278
2. Inserted PCR amplified pVnt1, Vnt1 and tvVnt1 into construct A with flanking KpnI and Apal restriction sites
3. Inserted PCR amplified Inv fragment (sense orientation) upstream pAgg promoter into construct B with flanking Apal and EcoRI restriction sites
4. Inserted PCR amplified Inv fragment (anti-sense orientation) upstream pGbs promoter into construct C with flanking EcoRI and SacI restriction sites
5. Inserted T-DNA region of constructs A – C into KpnI – SacI region of pSIM1278 backbone