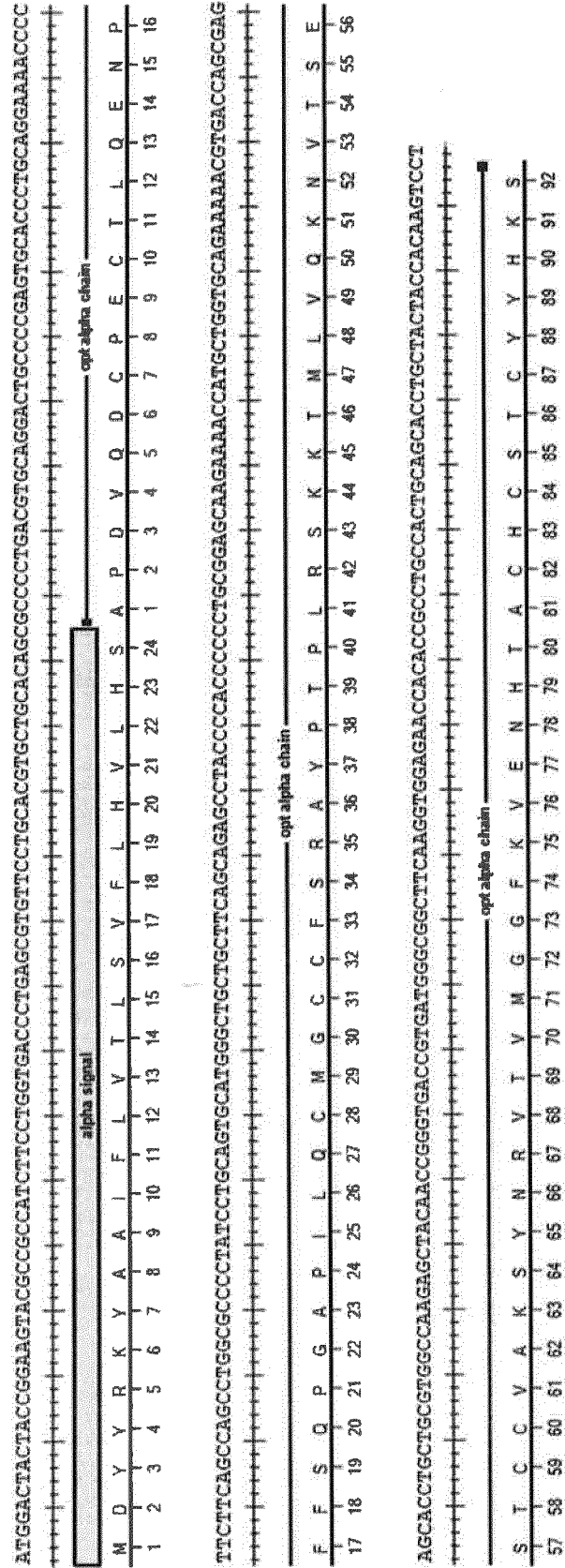


Fig 1: Optimised hCG alpha:





[illegible]

Figs 4 and 5: Plasmid maps of the phCGalpha/beta and pST3 expression vectors. CMV = Cytomegalovirus promoter, BGHp(A) = Bovine Growth Hormone poly-adenylation sequence, fl ori = fl origin of replication, SV40 = Simian Virus 40 promoter, Neo = Neomycin resistance marker, Hyg = Hygromycin resistance marker, SV40 p(A) = Simian Virus 40 poly-adenylation sequence, hCG  $\alpha$  = human chorionic gonadotropin alpha polypeptide, hCG  $\beta$  = human chorionic gonadotropin beta polypeptide, ST3GAL4 =  $\alpha$ 2,3-sialyltransferase, ST6GAL1 =  $\alpha$ 2,6-sialyltransferase, ColEI = ColEI origin of replication, Amp = ampicillin resistance marker.

Figure 4. phCG expression vector

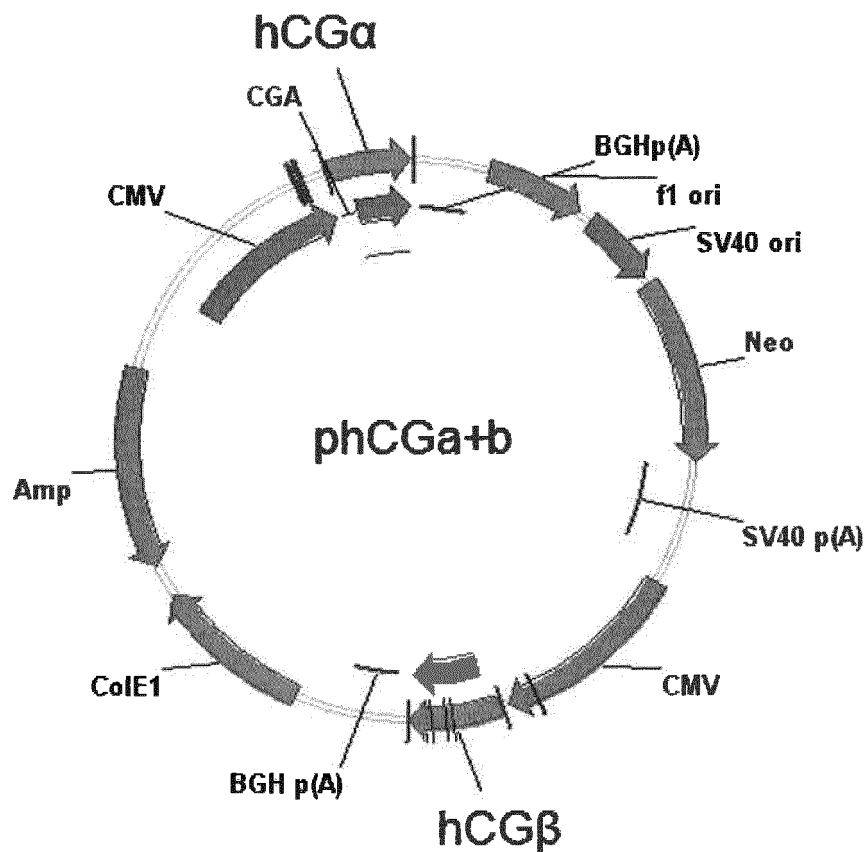
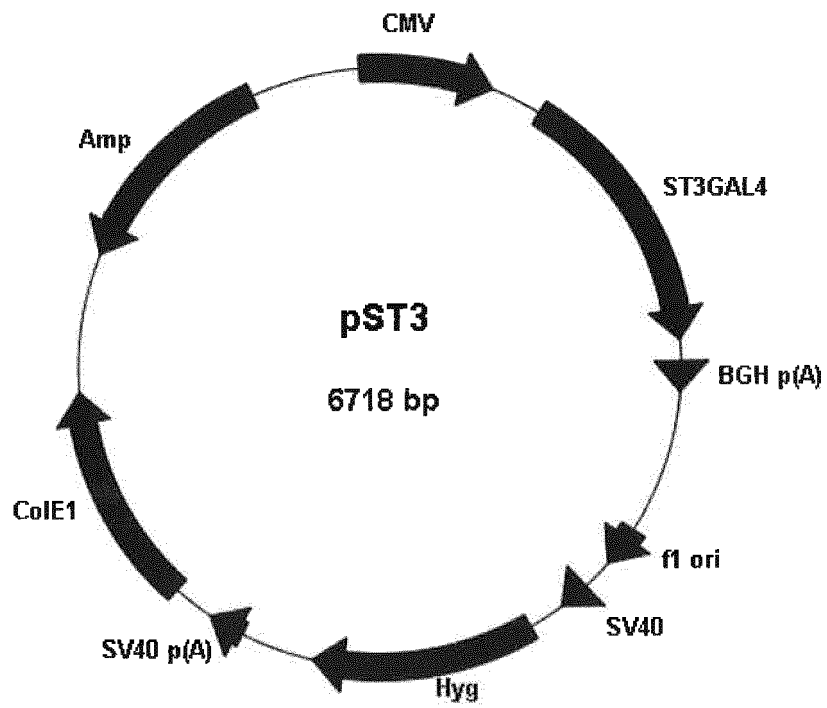


Figure 5.  $\alpha$ 2,3-sialyltransferase (ST3GAL4) expression vector

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Figure 6: shows the detection of rhCG Isoforms by IEF stained with Coomassie Blue in compositions according to the invention (Lanes 4, 5, 6 and 7, 15  $\mu$ g per lane); the CHO derived composition of the prior art, Ovitrelle (Lane 2, 15 $\mu$ g); and a human urinary product obtained from pregnant women Novarel (Lane 3, 15 $\mu$ g); IEF marker (Lane 1 (pI's from top: 7.0, 6.8, 6.5, 6.0, 5.1 and 4.75 respectively))

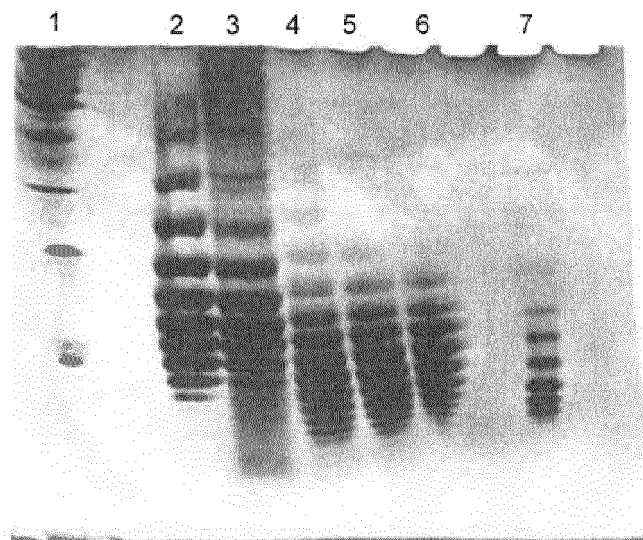


FIG. 6

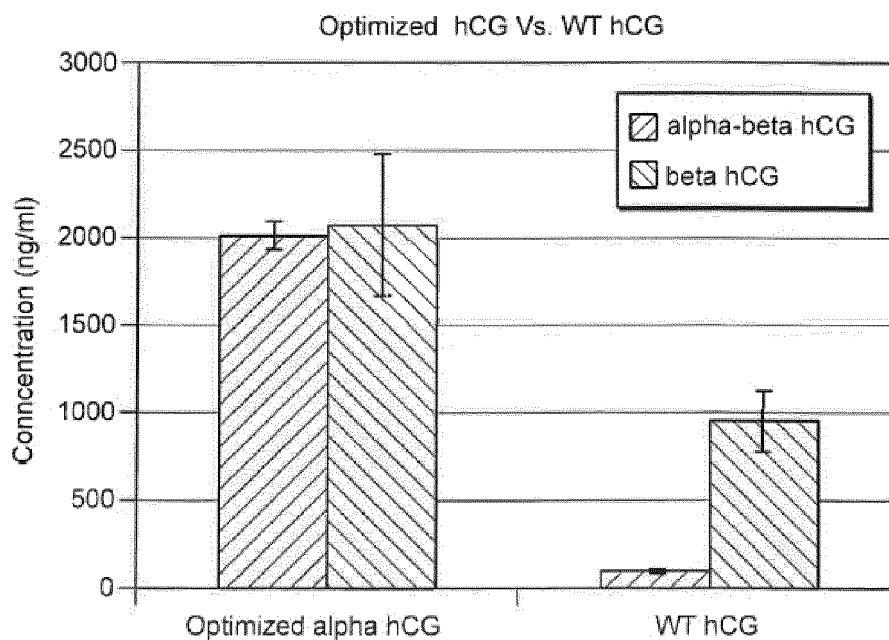


FIG. 7