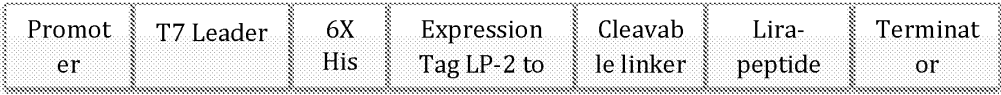
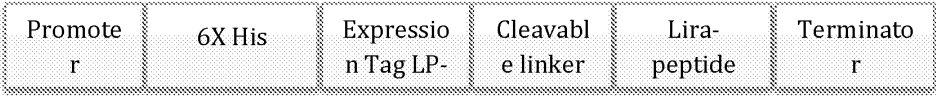


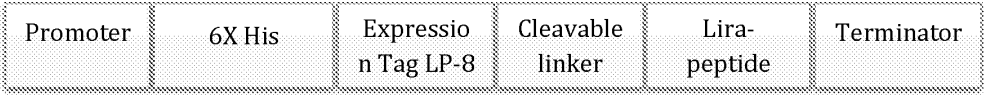
A



B



C



D

Figure 1: Expression cassettes

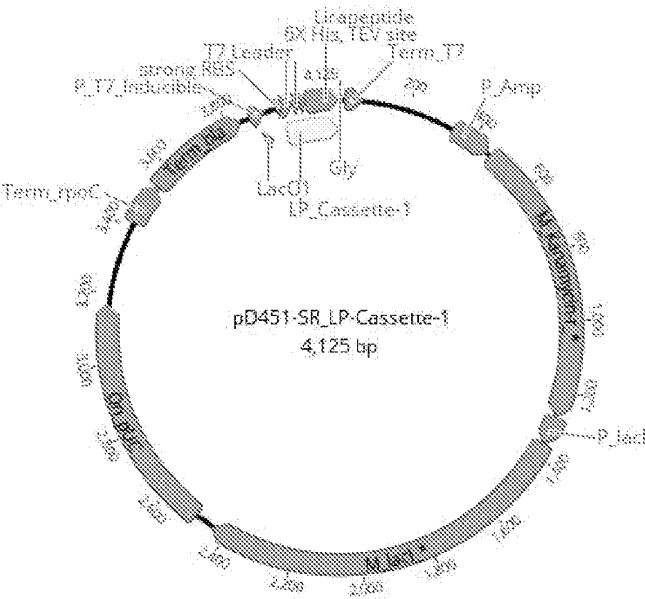


FIGURE 2A

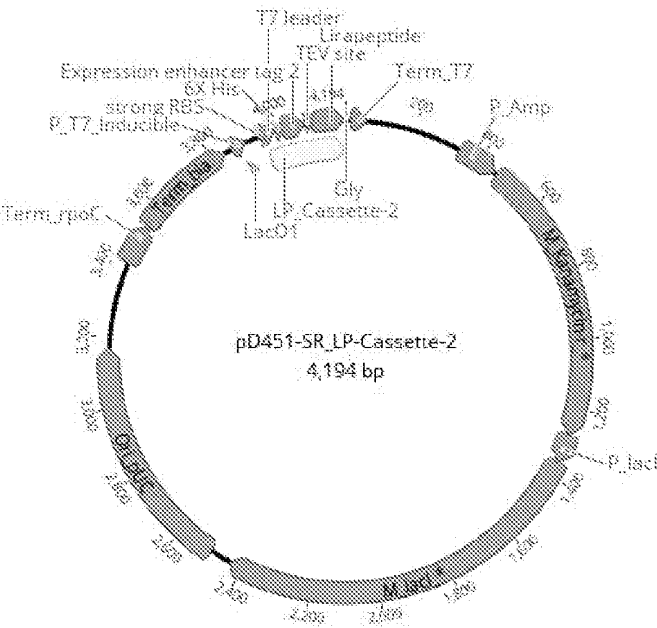


FIGURE 2B

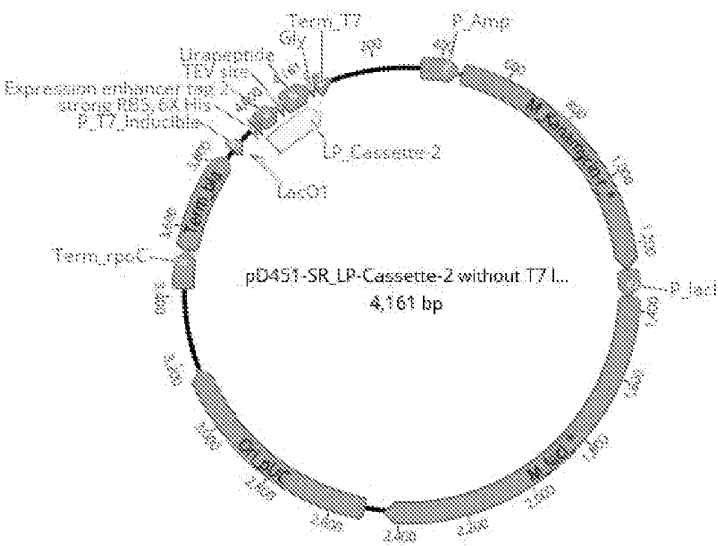


FIGURE 2C

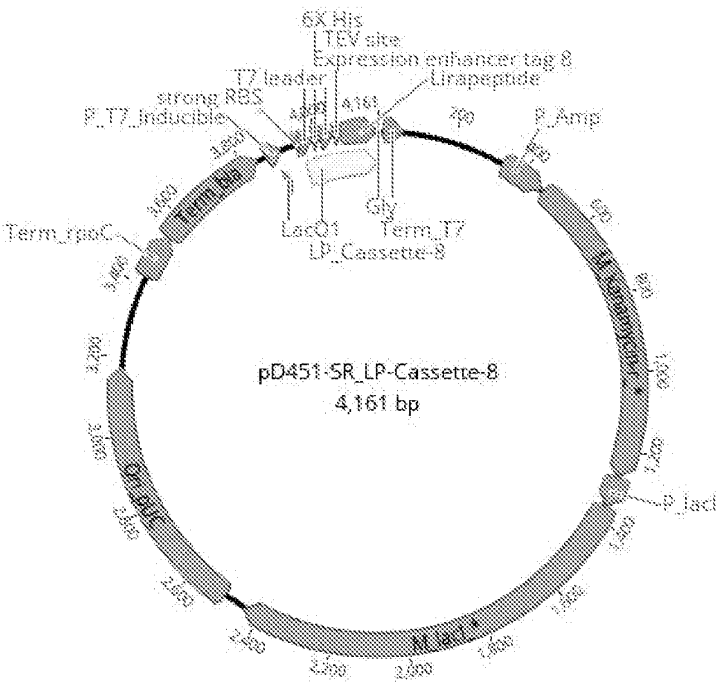


FIGURE 2D

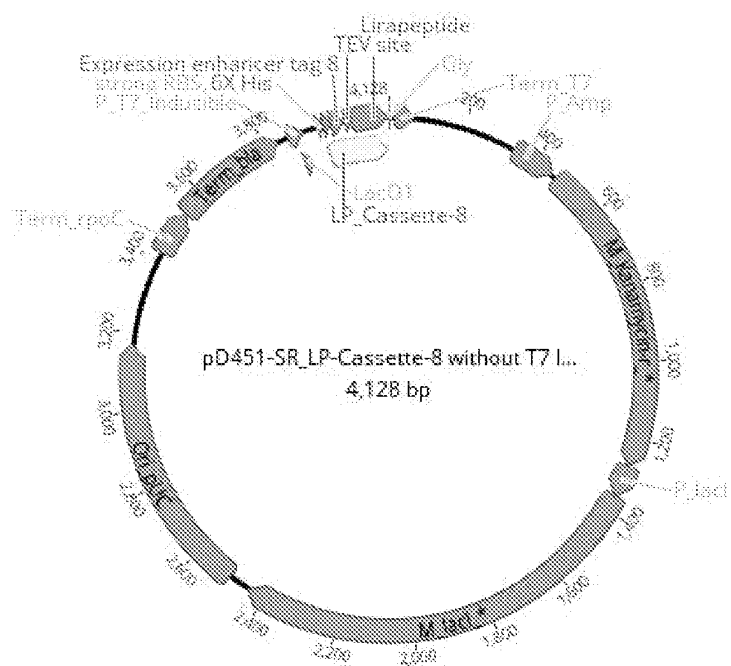


FIGURE 2E

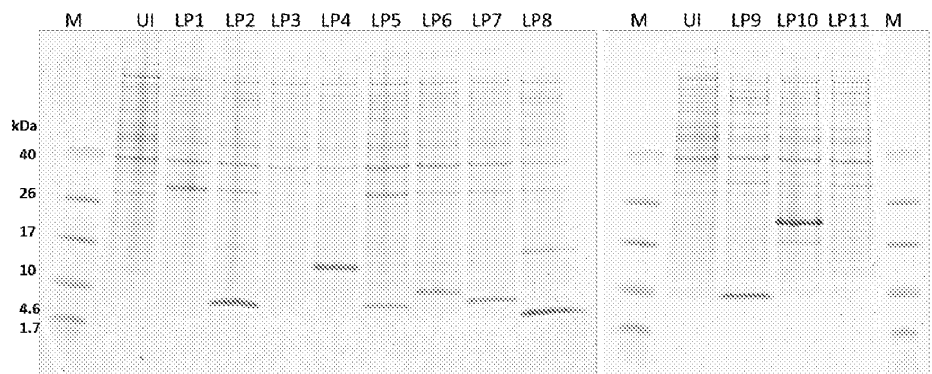


Figure 3A: Expression analysis of LP1 to LP11 cassettes on SDS-PAGE gel.

Sample	UI (Un-induced)	LP-1	LP-2	LP-3	LP-4	LP-5	LP-6	LP-7	LP-8	LP-9	LP-10	LP-11
Molecular weight kDa		6.2	8.5	10.4	14.7	7.6	8.9	9.6	7.4	7.7	19.6	6.3
% of tagged Lira-peptide	-	-	22.8	-	22.3	14.8	21.7	18.2	29.4	27.2	24.9	-

Figure 3B: The table represents the molecular weight of each cassette and percentage of tagged lira-peptide per lane, based on densitometry analysis.

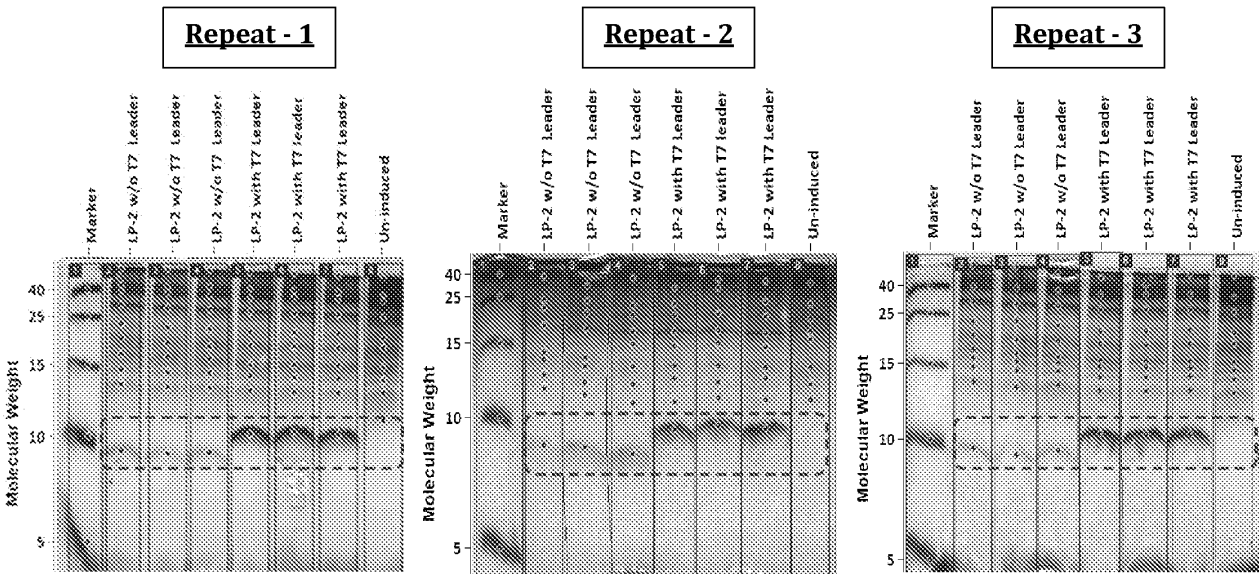


Figure 4A: Comparative lirapeptide expression in presence and absence of T7 leader sequence with LP-2 expression tag in the expression cassette.

LP2 Percentage increase	
Repeat-1	136%
Repeat-2	97%
Repeat-3	94%

Figure 4B

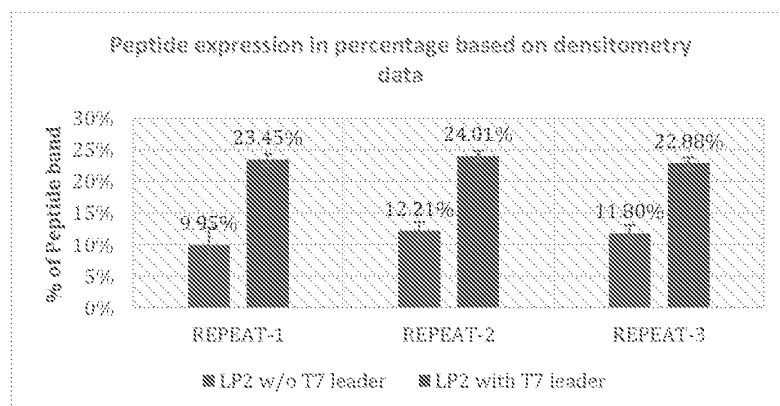


Figure 4 C: Percentage increase in expression of lira-peptide (LP2) with T7 leader when compared to without T7-leader

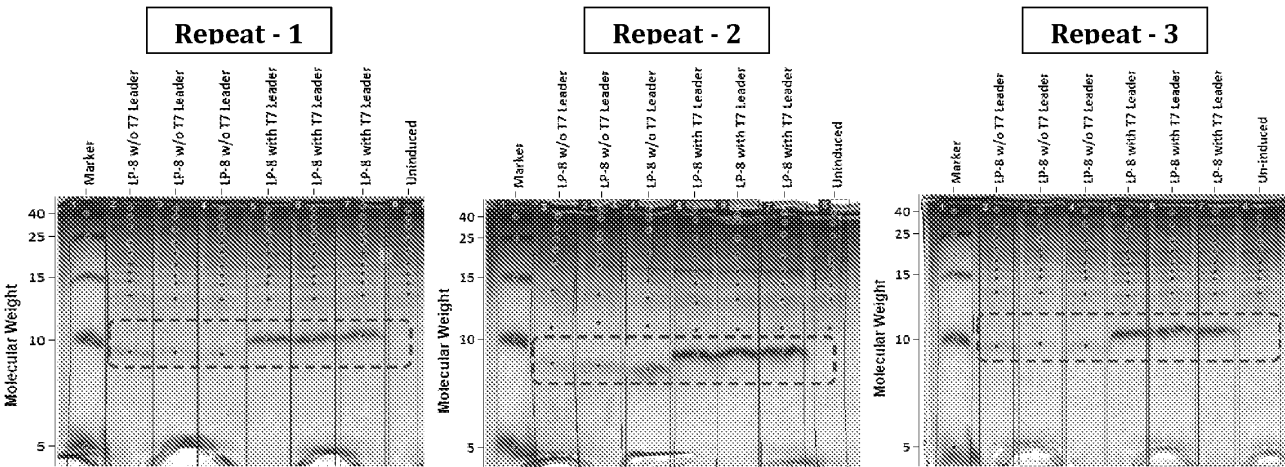


Figure 5A

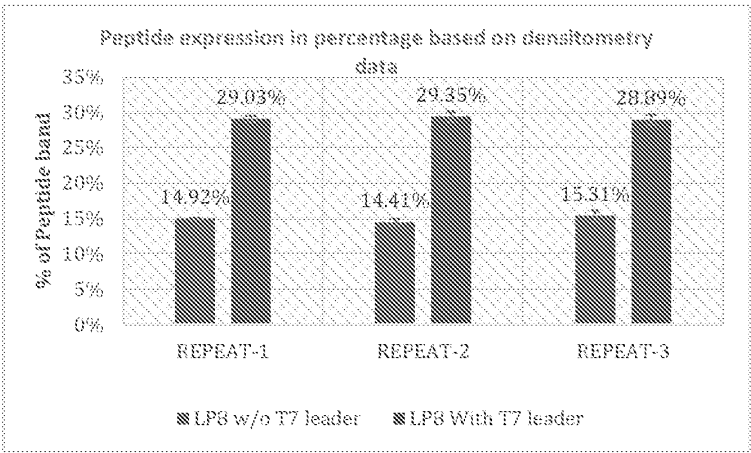


Figure 5B

LP8 percentage increase	
Repeat-1	95%
Repeat-2	104%
Repeat-3	89%

Figure 5C: Percentage increase in expression of lira-peptide (LP8) with T7 leader when compared to without T7-leader

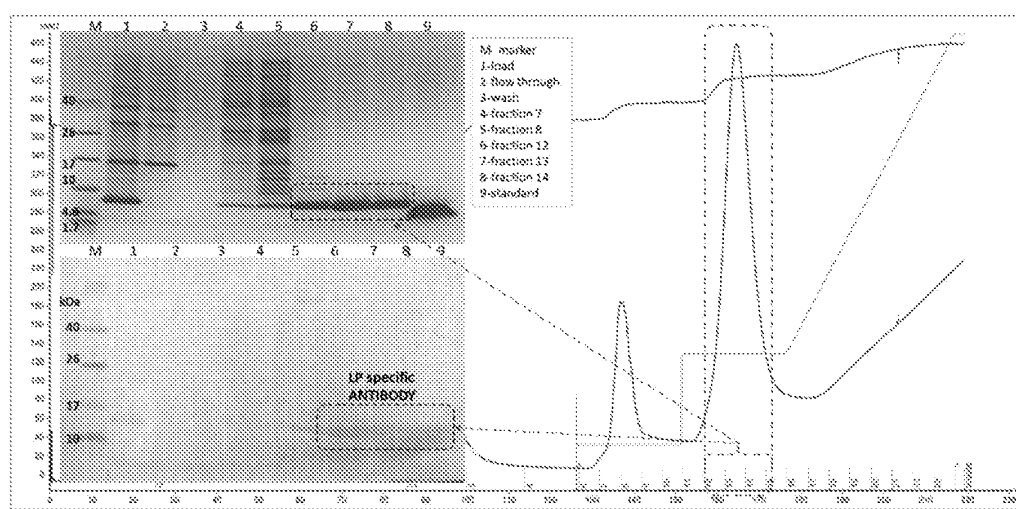


Figure 6A

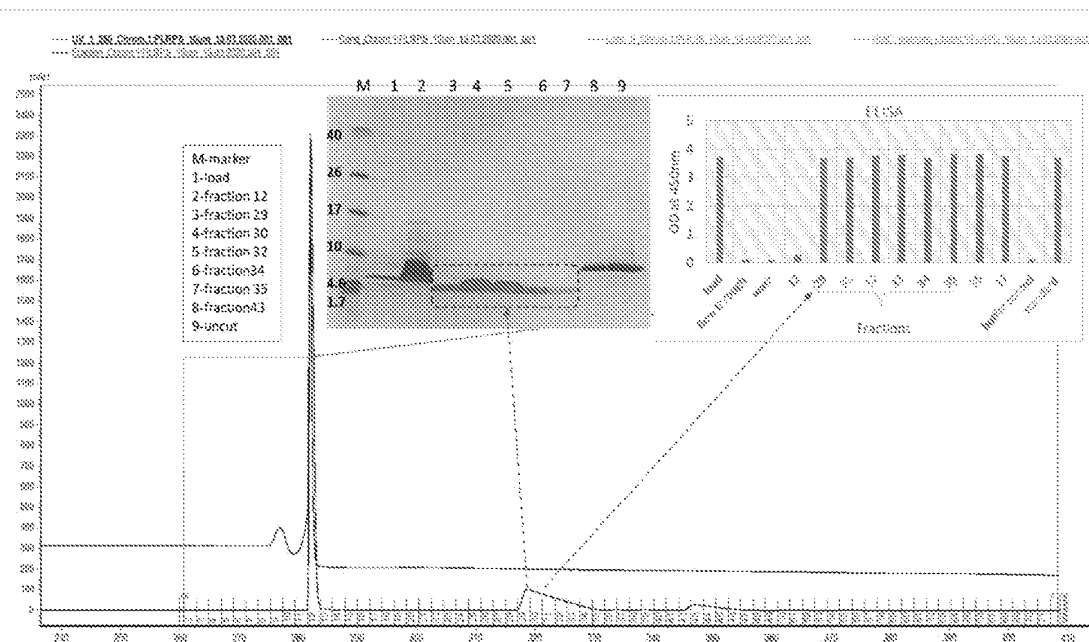


Figure 6B

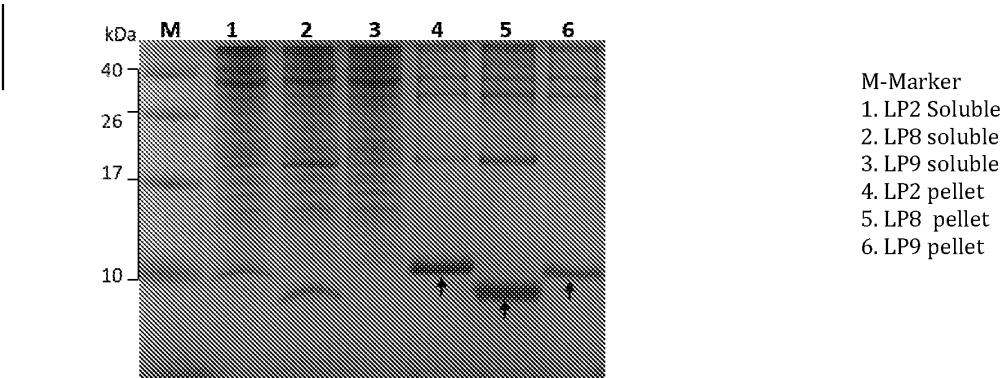


Figure 7

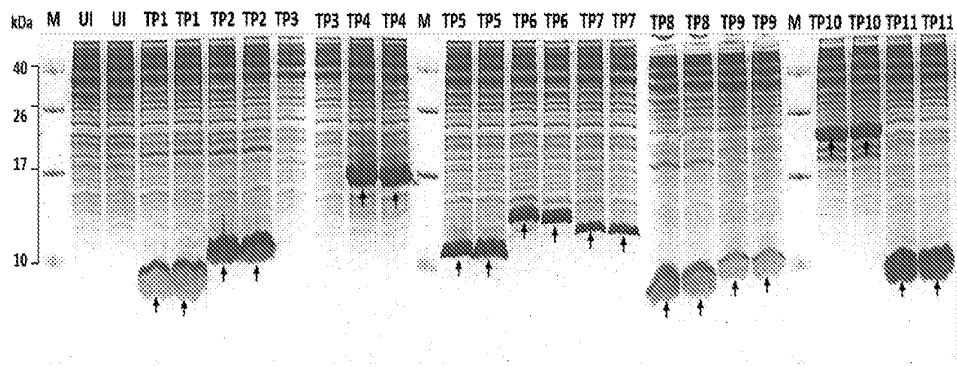


Figure 8