

Figure 6

B)

| EPSP Synthase Class | | |
|---------------------------|----------|---|
| Query sequence ID: 965007 | | |
| CLASS | IDENTITY | MOTIFS ($n_{positive}$ / n_{total}) |
| Class I (alpha) | 0.760 | - |
| Class I (beta) | 0.833 | - |
| Class II | 1.000 | |
| Class III | 0.378 | 0 / 18 |
| Class IV | 0.367 | - |

C)

| I | | Identity | |
|-------|-----|----------|------------|
| Class | pos | ve | query |
| 1 | 1 | X | C[=A]S(A)G |
| 2 | 2 | X | X[X] |
| 3 | 3 | X | X[X] |
| 27 | 4 | X | X[X] |
| 49 | 5 | X | X[X] |
| 69 | 6 | G | G[G] |
| 79 | 7 | G | G[G] |
| 100 | 8 | R | R[R] |
| 124 | 9 | R | R[R] |
| 125 | 10 | T | T[T] |
| 159 | 11 | P | P[P] |
| 171 | 12 | P | P[P] |
| 172 | 13 | Q | Q[Q] |
| 205 | 14 | Q | Q[Q] |
| 241 | 15 | X | X[=E] |
| 253 | 16 | D | D[D] |
| 272 | 17 | Q | Q[G] |
| 274 | 18 | R | R[R] |
| 341 | 19 | K | K[X] |
| 342 | 20 | K | K[X] |
| 345 | 21 | R | R[X] |
| 357 | 22 | R | R[X] |
| 385 | 23 | D | D[D] |
| 396 | 24 | H | H[H] |
| 397 | 25 | R | R[X] |
| 412 | 26 | K | K[X] |
| 415 | 27 | P | P[=O] |

E)

F)

[Run BLAST](#) | [Conserved domain](#)