Table 1: Shows the ORFs and their possible functions

| Sr # | Category                  | Pathogen                      | Putative Function                                      | Accession numbers       | Matches in Archaea | Bit score |
|------|---------------------------|-------------------------------|--------------------------------------------------------|-------------------------|--------------------|-----------|
| a)   | Virulence associated      |                               |                                                        |                         |                    |           |
|      | 1) Clostridium tetani     |                               | Spore coat polysaccharide biosynthesis protein spsG    | gi|28203804              |                    | 180       |
|      | Hahella chejuensis        |                               |                                                        | gi|83647929              |                    | 119       |
|      | Streptomyces avermitilis  |                               | beta-propeller repeat protein                          | gi|29832287              |                    | >200      |
|      | Pelodictyon phaeoclatratiforme |                             | Protein of unknown function DUF1016                    | gi|68548684              |                    |           |
|      | Listeria innocua          |                               | putative intracellular protease ThiJ/PfpI             | gi|16799541              |                    | 334       |
| b)   | Antibiotic resistance     |                               |                                                        |                         |                    |           |
|      | 1) Clostridium tetani     |                               | Na+ driven multidrug efflux pump                      | gi|28210172              |                    | 326       |
| c)   | Other Functions           |                               |                                                        |                         |                    |           |
|      | 1) Cluster of bacteria    |                               | hypothetical protein                                   | gi|94995108              |                    | 424       |
|      | Clostridium beijerinckii  |                               | Protein of unknown function                            | gi|82748509              |                    | >200      |
|      | Flavobacterium spp.       |                               | hypothetical protein                                   | gi|126661814             |                    | 384       |