**Table S1.** **A list of 44 genes found in the genome sequence of *R. nectarea* strain 8N4T that indicate the presence of a prophage (probably a P2-like prophage)**

|  |  |  |
| --- | --- | --- |
| **Gene ID** | **Locus Tag** | **Gene Product Name** |
|  |  |  |
| 2654005483 | Ga0111567\_10133 | 1. Phage major capsid protein, HK97 family
 |
| 2654005485 | Ga0111567\_10135 | 1. Phage portal protein, HK97 family
 |
| 2654005486 | Ga0111567\_10136 | 1. Phage head-tail adaptor, putative, SPP1 family
 |
| 2654005487 | Ga0111567\_10137 | 1. Uncharacterized phage protein (possible DNA packaging)
 |
| 2654005490 | Ga0111567\_10140 | 1. Phage terminase, small subunit, putative, P27 family
 |
| 2654005491 | Ga0111567\_10141 | 1. Phage terminase-like protein, large subunit, contains N-terminal HTH domain
 |
| 2654005632 | Ga0111567\_101183 | 1. Plasmid and phage DNA primase
 |
| 2654005634 | Ga0111567\_101185 | 1. Phage-integrase family protein
 |
| 2654005637 | Ga0111567\_101188 | 1. Toxin homologue of phage lysozyme
 |
| 2654005729 | Ga0111567\_101280 | 1. Replicative DNA helicase (phage and plasmid)
 |
| 2654005731 | Ga0111567\_101282 | 1. Phage/conjugal plasmid C-4 type zinc finger protein, TraR family
 |
| 2654005906 | Ga0111567\_101458 | 1. Phage-related lysozyme (muramidase), GH24 family
 |
| 2654006024 | Ga0111567\_1026 | 1. Phage major capsid protein, HK97 family
 |
| 2654006029 | Ga0111567\_10211 | 1. Bacteriophage-related protein of unknown function
 |
| 2654006038 | Ga0111567\_10220 | 1. Phage tail tape measure protein, lambda family
 |
| 2654006039 | Ga0111567\_10221 | 1. Phage-related protein
 |
| 2654006043 | Ga0111567\_10225 | 1. lambda-like phage minor tail protein L
 |
| 2654006045 | Ga0111567\_10227 | 1. Phage-related protein, tail component
 |
| 2654006046 | Ga0111567\_10228 | 1. Phage-related protein, tail component
 |
| 2654006124 | Ga0111567\_102106 | 1. Phage tail tape measure protein, TP901 family, core region
 |
| 2654006125 | Ga0111567\_102107 | 1. Phage tail assembly chaperone protein, E, or 41 or 14
 |
| 2654006129 | Ga0111567\_102111 | 1. Phage Tail Collar Domain
 |
| 2654006130 | Ga0111567\_102112 | 1. Phage tail protein, **P2** protein I family
 |
| 2654006131 | Ga0111567\_102113 | 1. Phage-related baseplate-assembly protein
 |
| 2654006133 | Ga0111567\_102115 | 1. Phage baseplate assembly protein V
 |
| 2654006134 | Ga0111567\_102116 | 1. Phage virion morphogenesis (putative tail completion) protein
 |
| 2654006135 | Ga0111567\_102117 | 1. **P2** phage tail-completion protein R (GpR)
 |
| 2654006136 | Ga0111567\_102118 | 1. Phage lysis-regulatory protein, LysB family
 |
| 2654006138 | Ga0111567\_102120 | 1. Phage-related lysozyme (muramidase), GH24 family
 |
| 2654006139 | Ga0111567\_102121 | 1. Bacteriophage holin family HP1
 |
| 2654006140 | Ga0111567\_102122 | 1. **P2**-like prophage tail protein X
 |
| 2654006141 | Ga0111567\_102123 | 1. Phage head-completion protein (GPL)
 |
| 2654006142 | Ga0111567\_102124 | 1. Phage small-terminase subunit
 |
| 2654006143 | Ga0111567\_102125 | 1. Phage major capsid protein, **P2** family
 |
| 2654006144 | Ga0111567\_102126 | 1. Phage capsid-scaffolding protein (GPO) serine peptidase
 |
| 2654006146 | Ga0111567\_102128 | 1. Phage portal protein, PBSX family
 |
| 2654006153 | Ga0111567\_102135 | 1. Bacteriophage replication gene A protein (GPA)
 |
| 2654006156 | Ga0111567\_102138 | 1. Phage/conjugal plasmid C-4 type zinc finger protein, TraR family
 |
| 2654006160 | Ga0111567\_102142 | 1. Phage regulatory protein CII (CP76)
 |
| 2654006162 | Ga0111567\_102144 | 1. Bacteriophage CI-repressor helix-turn-helix domain-containing protein
 |
| 2654006414 | Ga0111567\_10331 | 1. Phage shock protein A (PspA) family protein
 |
| 2654006415 | Ga0111567\_10332 | 1. Phage shock protein B
 |
| 2654006416 | Ga0111567\_10333 | 1. Phage shock protein C (PspC) family protein
 |
| 2654006417 | Ga0111567\_10334 | 1. Phage shock protein D
 |