**Supplementary File 1: Genomic variants (SNPs, small insertions, and deletions) in *B. theta* strains whole genome sequences**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Strain** | **Location** | **Ref.** | **Var.** | **Annotation** | **Annotation impact** | **Gene Name** | **Locus tag** | **Protein ID** | **Product** |
| *B. theta* acapsular untagged | CP092641.1:5398246 | A | C | Missense variant | MODERATE | MJ393\_20770 | MJ393\_20770 | UML60879.1 | pyridoxal phosphate-dependent aminotransferase |
| *B. theta* acapsular untagged | CP092641.1:763015 | T | A | Synonymous variant | LOW | pckA | MJ393\_03275 | UML62109.1 | phosphoenolpyruvate carboxykinase (ATP) |
| *B. theta* acapsular tag 1 | CP092641.1:763015 | T | A | Synonymous variant | LOW | pckA | MJ393\_03275 | UML62109.1 | phosphoenolpyruvate carboxykinase (ATP) |
| *B. theta* acapsular tag 1 | CP092641.1:5208844 | T | G | Upstream gene variant | MODIFIER | MJ393\_19885 | MJ393\_19885 | UML60714.1 | hypothetical protein |
| *B. theta* acapsular tag 1 | CP092641.1:5398246 | A | C | Missense variant | MODERATE | MJ393\_20770 | MJ393\_20770 | UML60879.1 | pyridoxal phosphate-dependent aminotransferase |
| *B. theta* acapsular tag 11 | CP092641.1:763015 | T | A | Synonymous variant | LOW | pckA | MJ393\_03275 | UML62109.1 | phosphoenolpyruvate carboxykinase (ATP) |
| *B. theta* acapsular tag 11 | CP092641.1:5398246 | A | C | Missense variant | MODERATE | MJ393\_20770 | MJ393\_20770 | UML60879.1 | pyridoxal phosphate-dependent aminotransferase |
| *B. theta* acapsular tag 17 | CP092641.1:5398246 | A | C | Missense variant | MODERATE | MJ393\_20770 | MJ393\_20770 | UML60879.1 | pyridoxal phosphate-dependent aminotransferase |
| *B. theta* acapsular tag 17 | CP092641.1:763015 | T | A | Synonymous variant | LOW | pckA | MJ393\_03275 | UML62109.1 | phosphoenolpyruvate carboxykinase (ATP) |
| *B. theta* acapsular tag 17 | CP092641.1:5208862 | A | G | Upstream gene variant | MODIFIER | MJ393\_19885 | MJ393\_19885 | UML60714.1 | hypothetical protein |
| *B. theta* acapsular tag 17 | CP092641.1:5208850 | A | AG | Upstream gene variant | MODIFIER | MJ393\_19885 | MJ393\_19885 | UML60714.1 | hypothetical protein |
| *B. theta* acapsular tag 17 | CP092641.1:5208844 | T | G | Upstream gene variant | MODIFIER | MJ393\_19885 | MJ393\_19885 | UML60714.1 | hypothetical protein |
| *B. theta* acapsular tag 17 | CP092641.1:5208867 | G | A | Upstream gene variant | MODIFIER | MJ393\_19885 | MJ393\_19885 | UML60714.1 | hypothetical protein |
| *B. theta* acapsular tag 19 | CP092641.1:763015 | T | A | Synonymous variant | LOW | pckA | MJ393\_03275 | UML62109.1 | phosphoenolpyruvate carboxykinase (ATP) |
| *B. theta* acapsular tag 17 | CP092641.1:5398246 | A | C | Missense variant | MODERATE | MJ393\_20770 | MJ393\_20770 | UML60879.1 | pyridoxal phosphate-dependent aminotransferase |
| *B. theta* acapsular tag 2 | CP092641.1:763015 | T | A | Synonymous variant | LOW | pckA | MJ393\_03275 | UML62109.1 | phosphoenolpyruvate carboxykinase (ATP) |
| *B. theta* acapsular tag 2 | CP092641.1:5208844 | T | G | Upstream gene variant | MODIFIER | MJ393\_19885 | MJ393\_19885 | UML60714.1 | hypothetical protein |
| *B. theta* acapsular tag 2 | CP092641.1:5398246 | A | C | Missense variant | MODERATE | MJ393\_20770 | MJ393\_20770 | UML60879.1 | pyridoxal phosphate-dependent aminotransferase |
| *B. theta* acapsular tag 21 | CP092641.1:763015 | T | A | Synonymous variant | LOW | pckA | MJ393\_03275 | UML62109.1 | phosphoenolpyruvate carboxykinase (ATP) |
| *B. theta* acapsular tag 21 | CP092641.1:5398246 | A | C | Missense variant | MODERATE | MJ393\_20770 | MJ393\_20770 | UML60879.1 | pyridoxal phosphate-dependent aminotransferase |
| *B. theta* WT untagged | - | - | - | - | - | - | - | - | - |
| *B. theta* WT tag 1 | - | - | - | - | - | - | - | - | - |
| *B. theta* WT tag 11 | - | - | - | - | - | - | - | - | - |
| *B. theta* WT tag 17 | - | - | - | - | - | - | - | - | - |
| *B. theta* WT tag 19 | CP092641.1:2726474 | A | C | Missense variant | MODERATE | MJ393\_09990 | MJ393\_09990 | UML63380.1 | TonB-dependent receptor |
| *B. theta* WT tag 2 | - | - | - | - | - | - | - | - | - |
| *B. theta* WT tag 21 | - | - | - | - | - | - | - | - | - |