## Deletion of oadGAB operon in Mannheimia succiniciproducens

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Oxaloacetate decarboxylase complex, encoded by oadGAB operon in M. succiniciproducens, is predicted to convert oxaloacetate into pyruvate, while competing with malate dehydrogenase leading to succinic acid production. As a verification of the homology analysis, oadGAB operon of M. succiniciproducens was deleted using a markerless gene deletion method. The fermentation of oadGAB deletion mutant verified that oxaloacetate decarboxylase did not affect the succinic acid production of wild type M. succiniciproducens.