Possibly Interesting Model Predictions

1. Cells can grow on acetate itself, producing alanine from ammonia and transporting it outside the cell as a means to generate external sodium. This isn’t really a great testable thing
2. For the non-obvious (Alanine, Aspartate, Asparagine, Glutamate, Glutamine) amino acids, their synthesis pathways and possible auxotroph sites.
3. MMP541 or MMP542 is the gene annotated for the last step of serine synthesis. The first is known to be serB and is predicted essential by the Whitman paper; model thinks that the second should be able to substitute, but perhaps that’s untrue??