| **Imine Reductase** | | | |
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| in silico: Supervised - May 29, 2023 to July 16, 2023 | | | |
| **Acknowledgements:**  Disclosure of this dataset has been approved and provided by Codexis. | | | |
| **Citation:**  This dataset falls within the claims in the following patent application:  Yi, Xiang, Oscar Alvizo, Ravi David Garcia, David Entwistle, Charlene Ching, Nandhitha Subramanian, and James Nicholas Riggins. 2020. ENGINEERED GLUCOSE DEHYDROGENASES AND METHODS FOR THE REDUCTIVE AMINATION OF KETONE AND AMINE COMPOUNDS. PCT/US2020/029517.” | | | |
| **Additional documentation and resources:**  None | | | |
| **Challenge Problem:**  Score the fold improvement over positive control (FIOP) of activity. The range of scoring is arbitrary.  **Note:**  Any “\*” wildcards should only be present in the amino acid translation and represent a stop codon. Any amino acids downstream of the “\*” is not expected to be produced by the expression host. | | | |
| **Sequence Length:** | **Mutation(s):** | **Classification:**  OXIDOREDUCTASE | **PDB Xtal Structure:**  4D3S |
| **Expression System:** Escherichia coli | | **Organism(s):** Nocardiopsis halophila | |
| **Target Sequence:** | | | |
| **Substrates (Amino donors):**   * IRED | | | |