

**S5 Table. List of sequencing data and platform used in this study.**

Strain	Reference strain	BioProject accession	DRA accession	BioSample accession	Sequence platform
CP4	<i>Zymomonas mobilis</i> subsp. mobilis CP4	PRJDB7156	DRA007031	SAMD00129443	Illumina MiSeq
Z4-80a	<i>Zymomonas mobilis</i> subsp. mobilis CP4	PRJDB7156	DRA007032	SAMD00129444	Illumina MiSeq
Z4-80b	<i>Zymomonas mobilis</i> subsp. mobilis CP4	PRJDB7156	DRA007033	SAMD00129445	Illumina Miseq
Z4-80c	<i>Zymomonas mobilis</i> subsp. mobilis CP4	PRJDB7156	DRA007034	SAMD00129446	Illumina Hiseq 2500
Z4-80d	<i>Zymomonas mobilis</i> subsp. mobilis CP4	PRJDB7156	DRA007035	SAMD00129447	Illumina Hiseq 2500
TISTR 548	<i>Zymomonas mobilis</i> subsp. mobilis TISTR 548	PRJDB7157	DRA007036	SAMD00129448	Illumina Hiseq 2500
200M	<i>Zymomonas mobilis</i> subsp. mobilis TISTR 548	PRJDB7157	DRA007037	SAMD00129449	Illumina Hiseq 2500
MAS1	<i>Zymomonas mobilis</i> subsp. mobilis TISTR 548	PRJDB7157	DRA007038	SAMD00129450	Illumina Hiseq 2500
W3110	<i>Escherichia coli</i> str. K-12 substr. W3110	PRJDB7158	DRA007039	SAMD00129451	Ion Torrent PGM
Im2B	<i>Escherichia coli</i> str. K-12 substr. W3110	PRJDB7158	DRA007040	SAMD00129452	Ion Torrent PGM
Im4B	<i>Escherichia coli</i> str. K-12 substr. W3110	PRJDB7158	DRA007041	SAMD00129453	Ion Torrent PGM