

**Table S5.** Genes removed from reference scaffold before alignment

<b>Locus tag</b>	<b>Comment</b>
METTOv1_1600001	chimeric sequence/ METTOv1_870001 and METTOv1_870003
METTOv1_820016	protein of unknown function
METTOv1_150030	protein of unknown function
METTOv1_300034	protein of unknown function/gltD operon
METTOv1_1650001	chimeric sequence/part of METATv1_30343 and METATv1_30340
METTOv1_140042	chimeric protein/part of METTOv1_140043
METTOv1_1700001	chimeric sequence/METTOv1_870001 and METTOv1_870003
METTOv1_10052	chimeric protein/part of METTOv1_10051
METTOv1_200054	chimeric protein/part of METTOv1_200053
METTOv1_600024	exported protein of unknown function
METTOv1_370034	protein of unknown function
METTOv1_200053	protein of unknown function
METTOv1_720016	protein of unknown function
METTOv1_450003	protein of unknown function
METTOv1_590015	protein of unknown function
METTOv1_360021	protein of unknown function
METTOv1_800023	protein of unknown function//part of transposase IS3/IS911
METTOv1_760015	protein of unknown function
METTOv1_270007	protein of unknown function
METTOv1_210063	protein of unknown function
METTOv1_10194	protein of unknown function
METTOv1_200055	protein of unknown function
METTOv1_450005	protein of unknown function
METTOv1_1280001	protein of unknown function
METTOv1_1050002	protein of unknown function
METTOv1_160016	protein of unknown function
METTOv1_200057	protein of unknown function
METTOv1_260041	protein of unknown function
METTOv1_600022	exported protein of unknown function
METTOv1_870007	protein of unknown function
METTOv1_260040	protein of unknown function
METTOv1_90064	protein of unknown function
METTOv1_30137	exported protein of unknown function
METTOv1_590023	protein of unknown function
METTOv1_250030	protein of unknown function
METTOv1_360046	protein of unknown function