Supplementary Figure 4.

## Marshfield Clinic

N = 150

Incident metformin user with clinical data

41 removed due to no amplifications in the RNaseP assay performed on real-time PCR instrument (7900HT Fast, Applied Biosystems)

N = 109

4 failed genotyping call

N = 105
Incident metformin user
with clinical data and
MATE2-K g.-130G>A genotype
and additional 6 functional SNPs in
OCT1, OCT2 and MATE1

## Kaiser South East, Georgia

N = 154

Incident metformin user with clinical data

66 removed because started on other therapy

N = 88

7 removed because no treatment HbA1c level within 90 to 270 days

N = 81

8 removed because self-reported as other ethnicity

N = 73

Incident metformin user
with clinical data and
MATE2-K g.-130G>A genotype
and additional 6 functional SNPs in
OCT1, OCT2 and MATE1.
53 metformin user (self-reported
African American) with clinical data
and MATE2-K c.485C>T genotype

BioVU, Vanderbilt

N = 80

Incident metformin user with clinical data

5 removed because self-reported as other ethnicity

N = 75
Incident metformin user
with clinical data and

MATE2-K g.-130G>A genotype and additional 6 functional SNPs in OCT1, OCT2 and MATE1