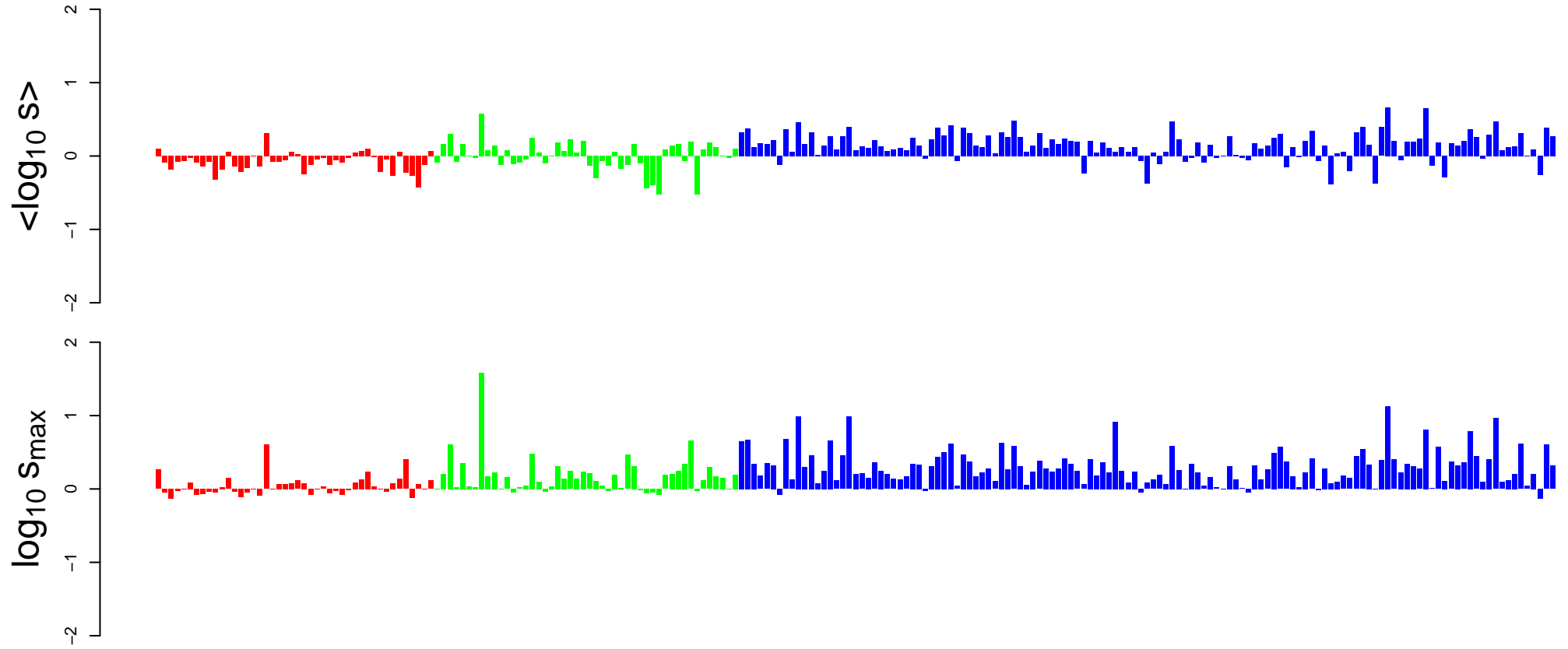
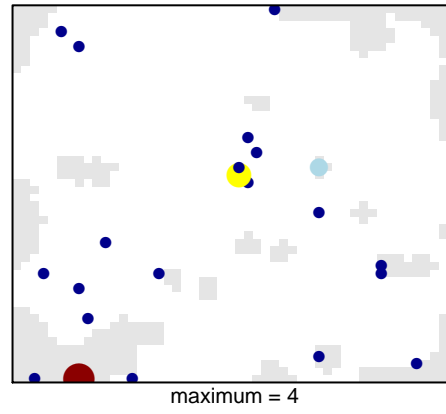


Nitrogen metabolism

all genes



Nitrogen metabolism
(sink nodes)

Cyanoamino acid
metabolism

Methane metabolism

Glyoxylate and
dicarboxylate metabolism

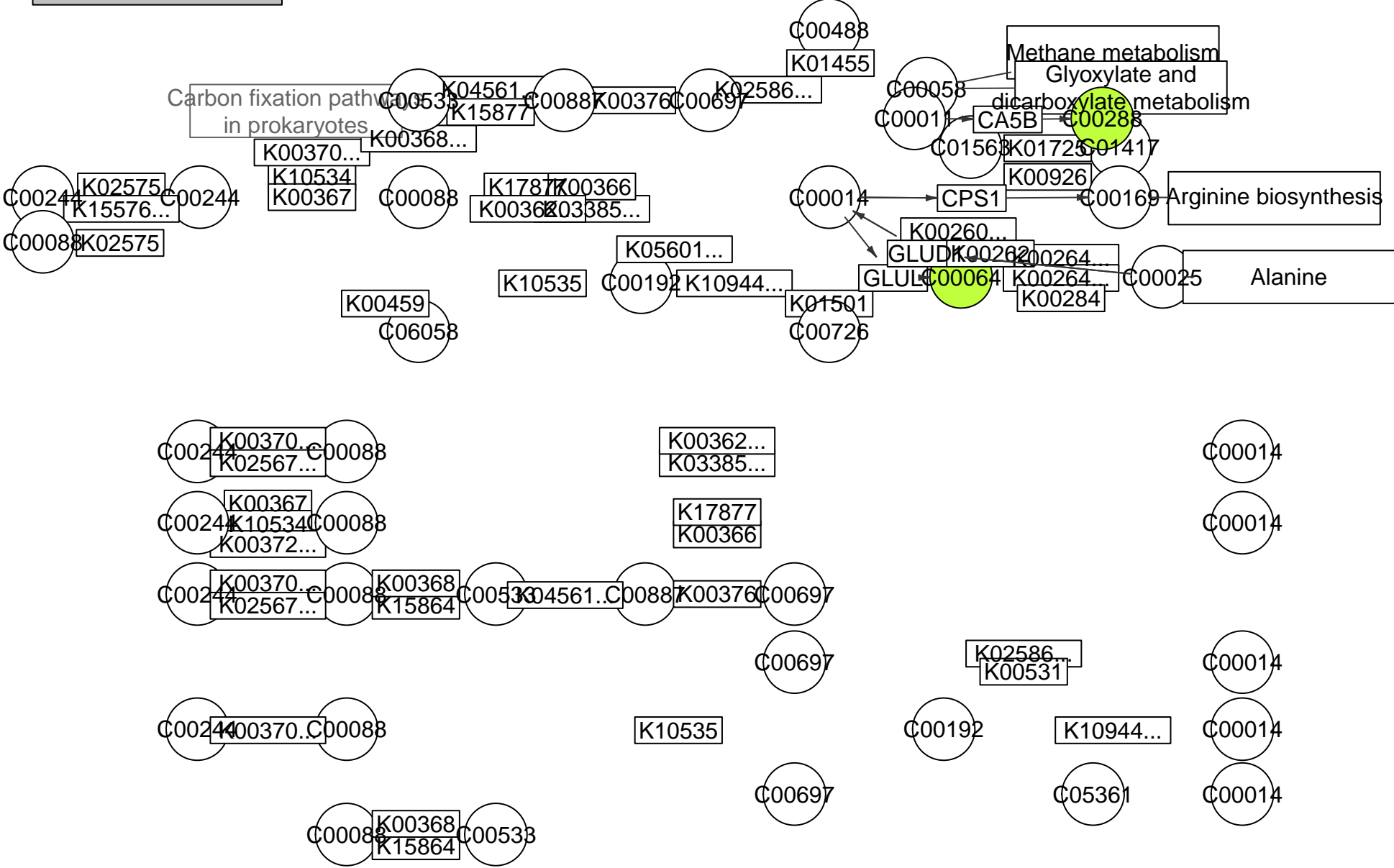
Carbon fixation pathway
in prokaryotes

CA5B

C00288

Arginine biosynthesis

Alanine



Nitrogen metabolism
MPI-001

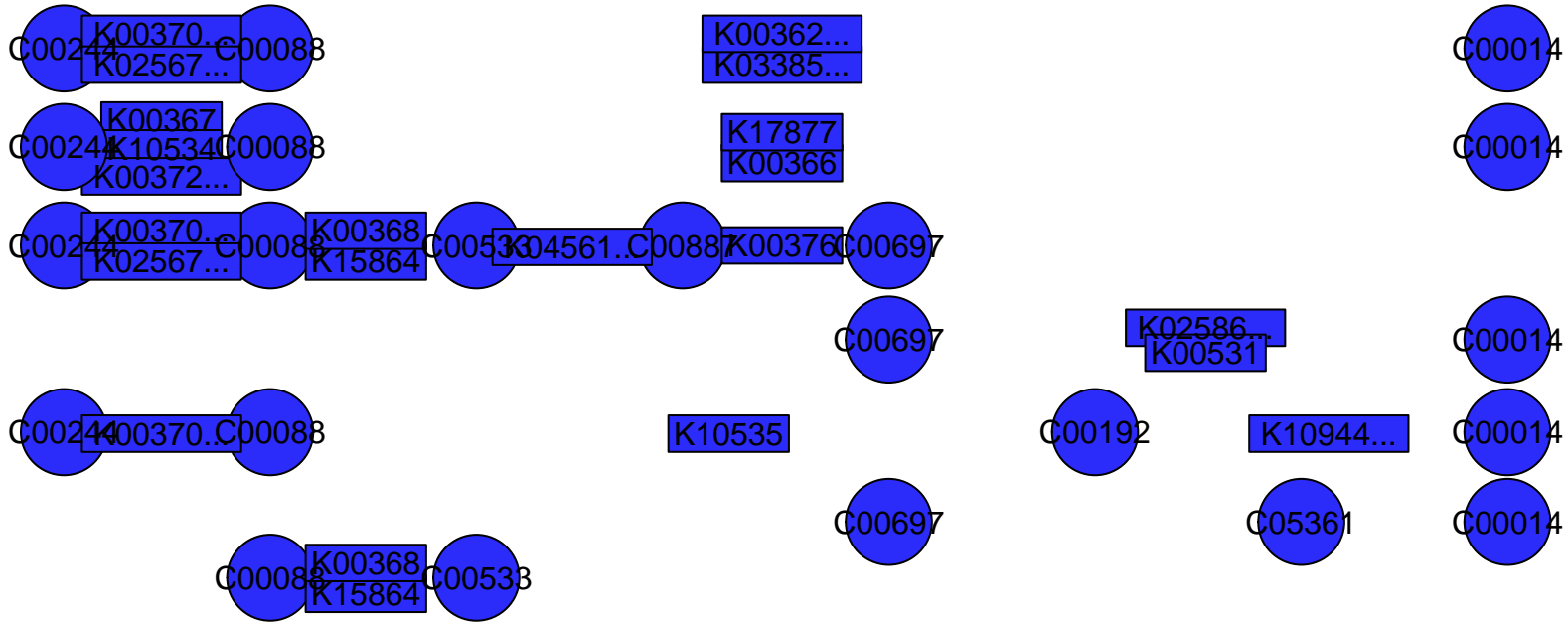
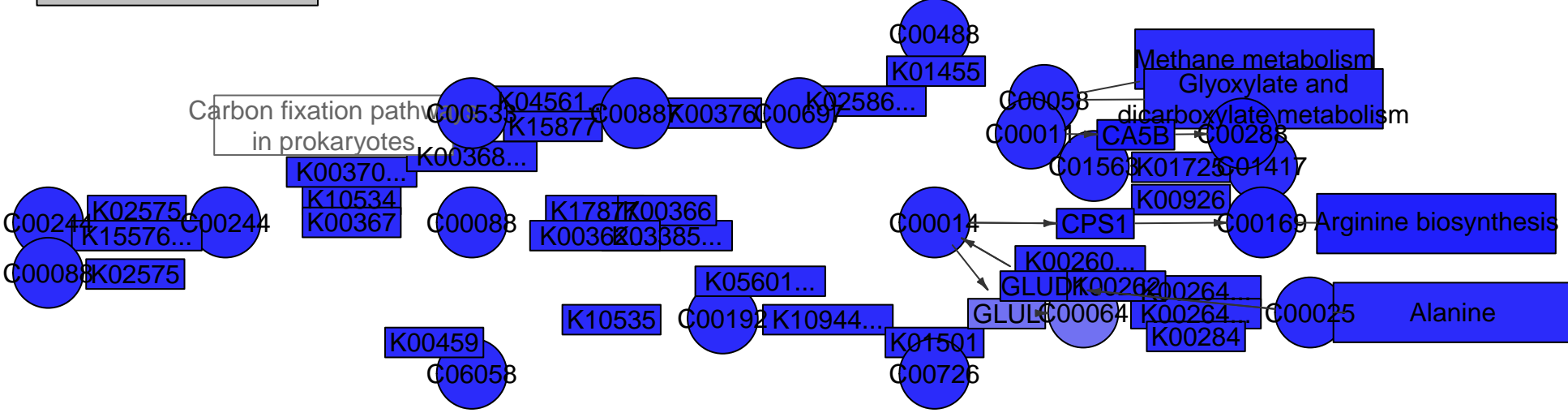
Cyanoamino acid
metabolism

Carbon fixation pathway
in prokaryotes

Methane metabolism
Glyoxylate and
dicarboxylate metabolism

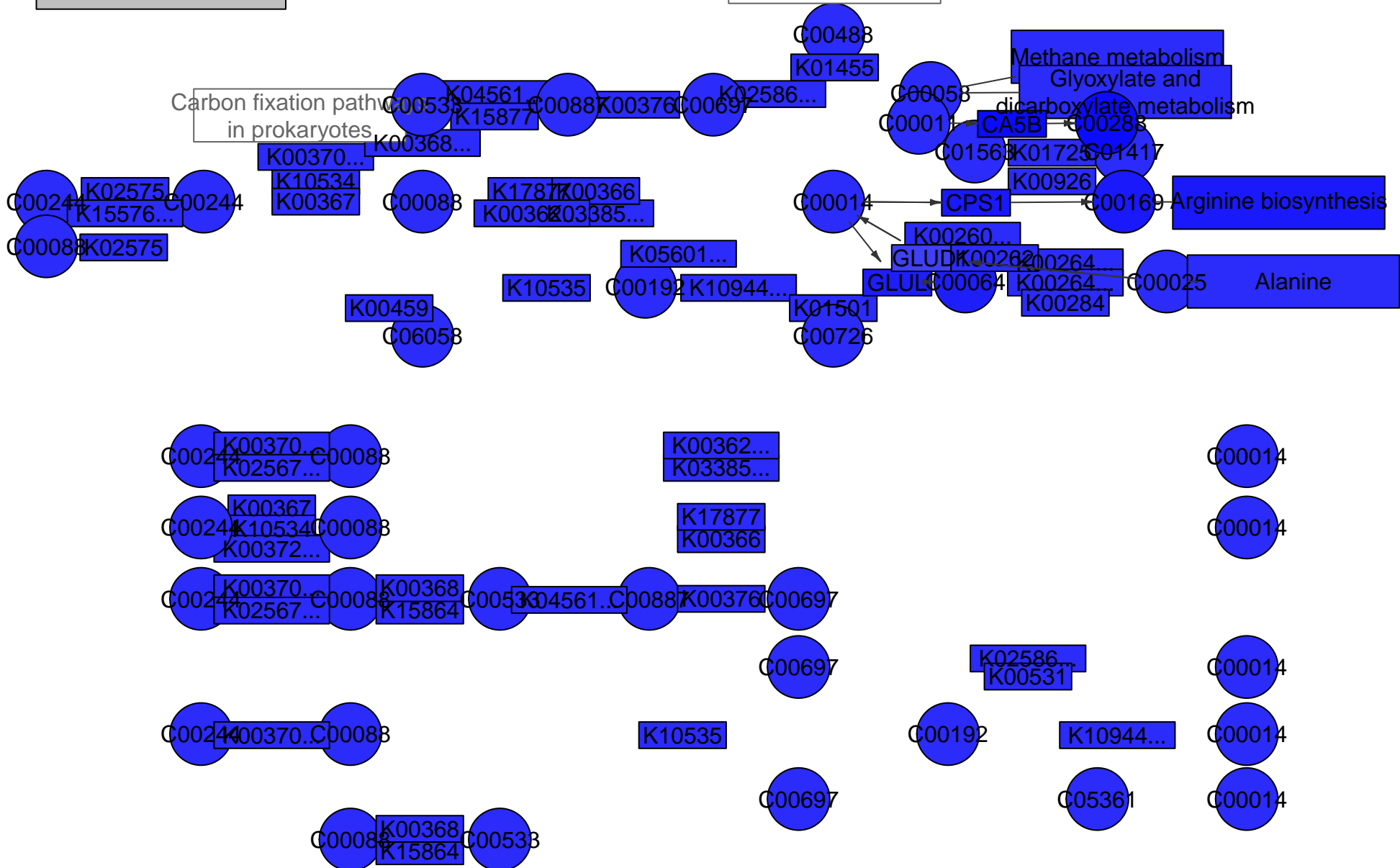
Arginine biosynthesis

Alanine



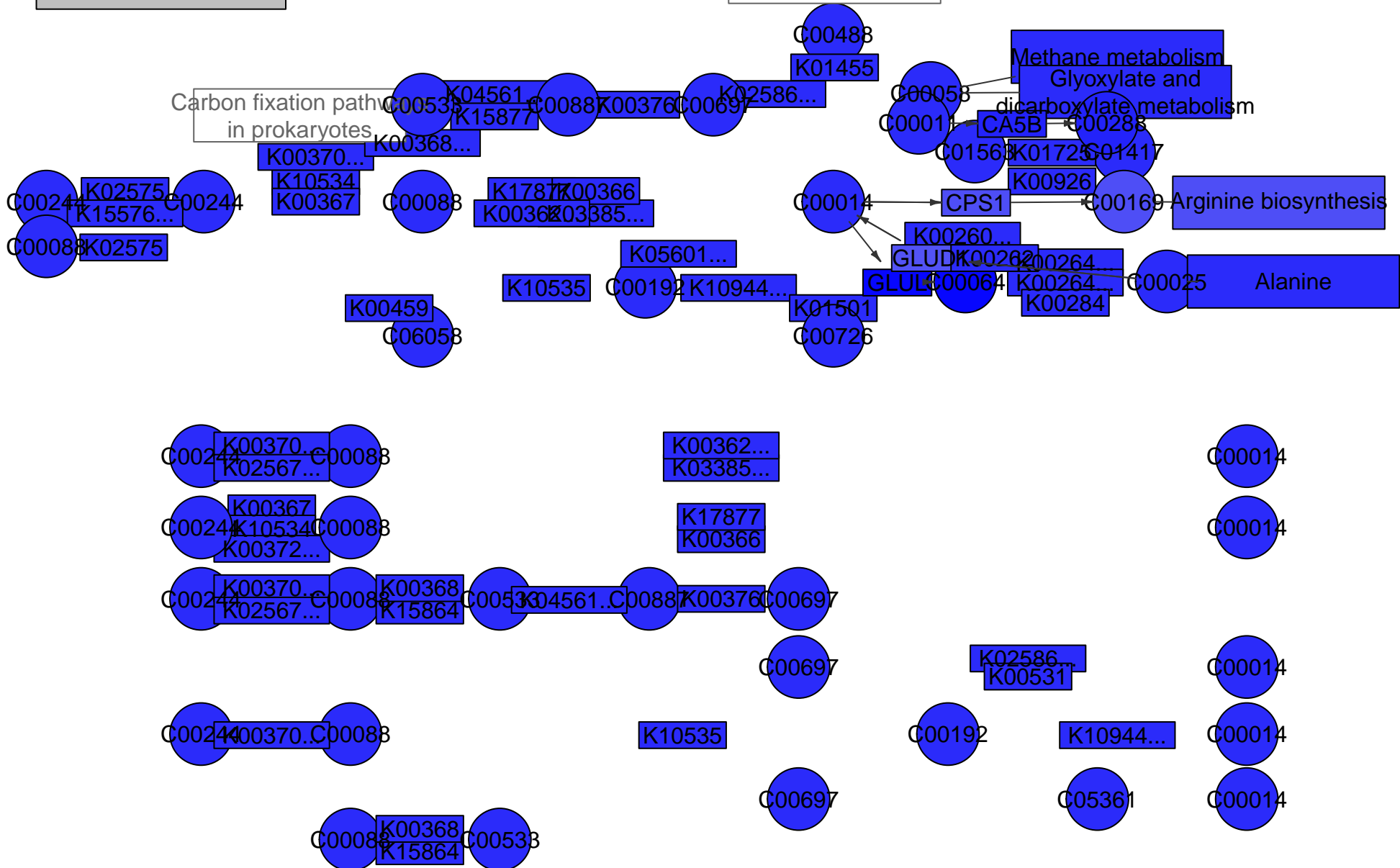
Nitrogen metabolism
MPI-002

Cyanoamino acid
metabolism



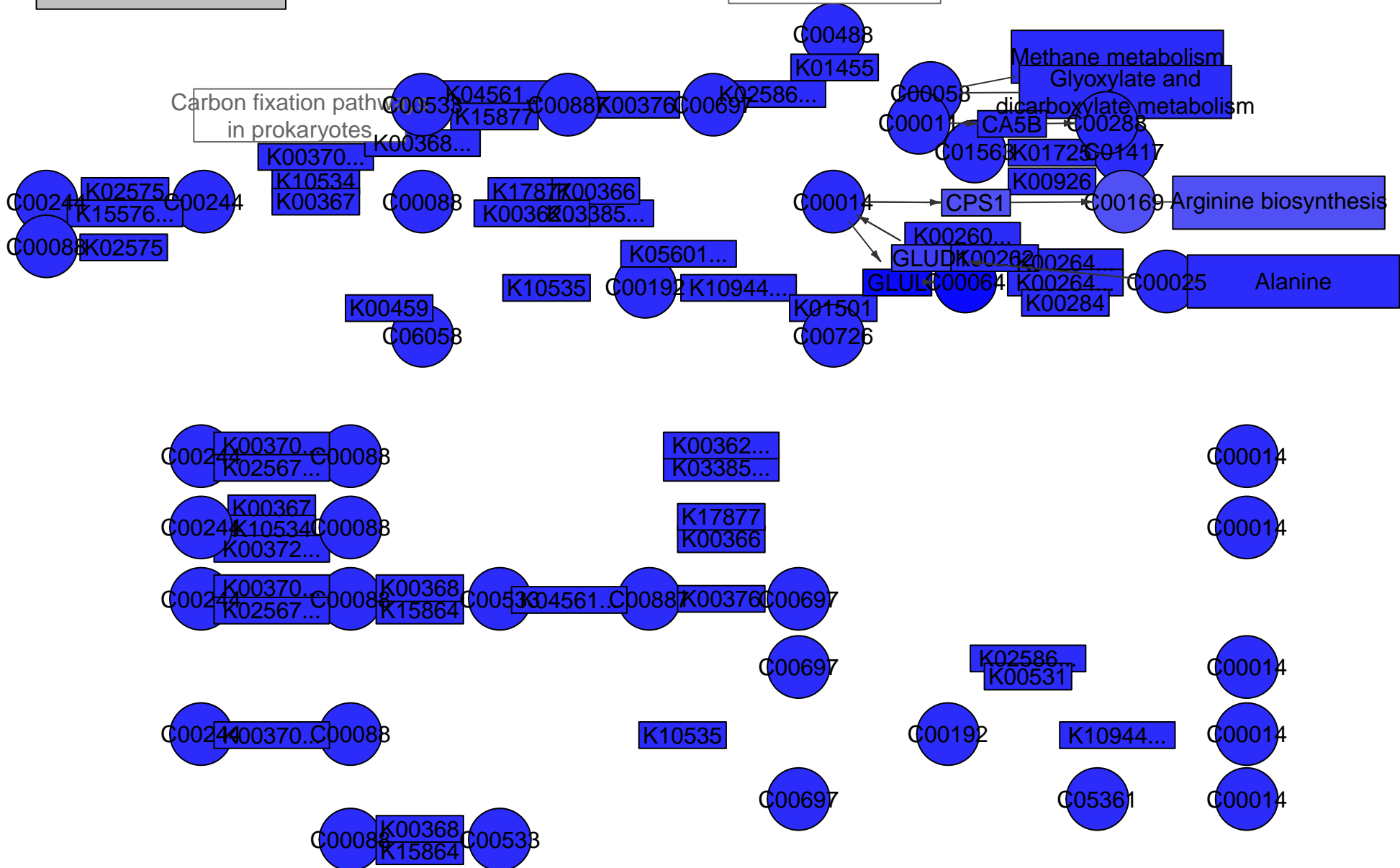
Nitrogen metabolism
MPI-005

Cyanoamino acid
metabolism



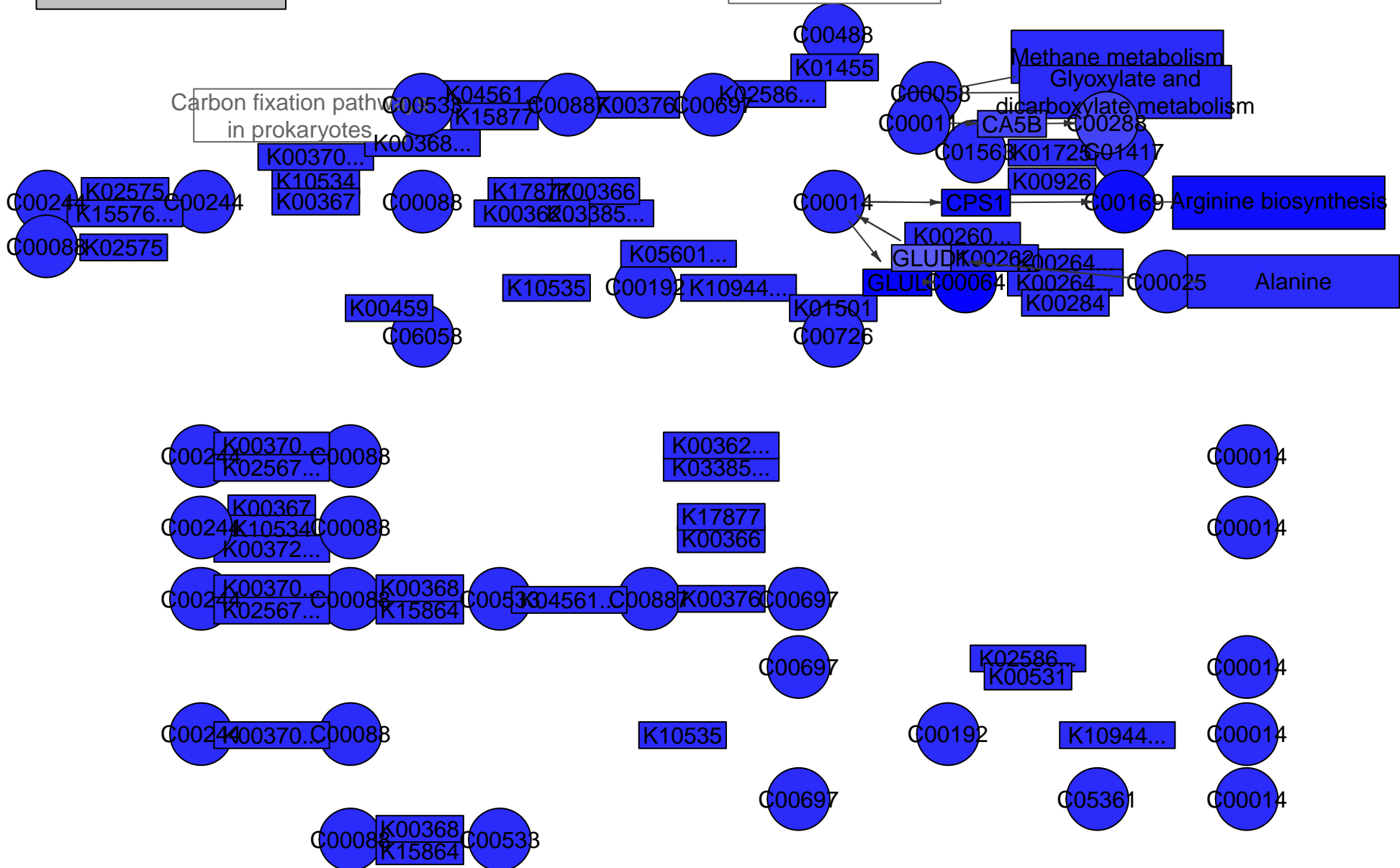
Nitrogen metabolism
MPI-006

Cyanoamino acid
metabolism



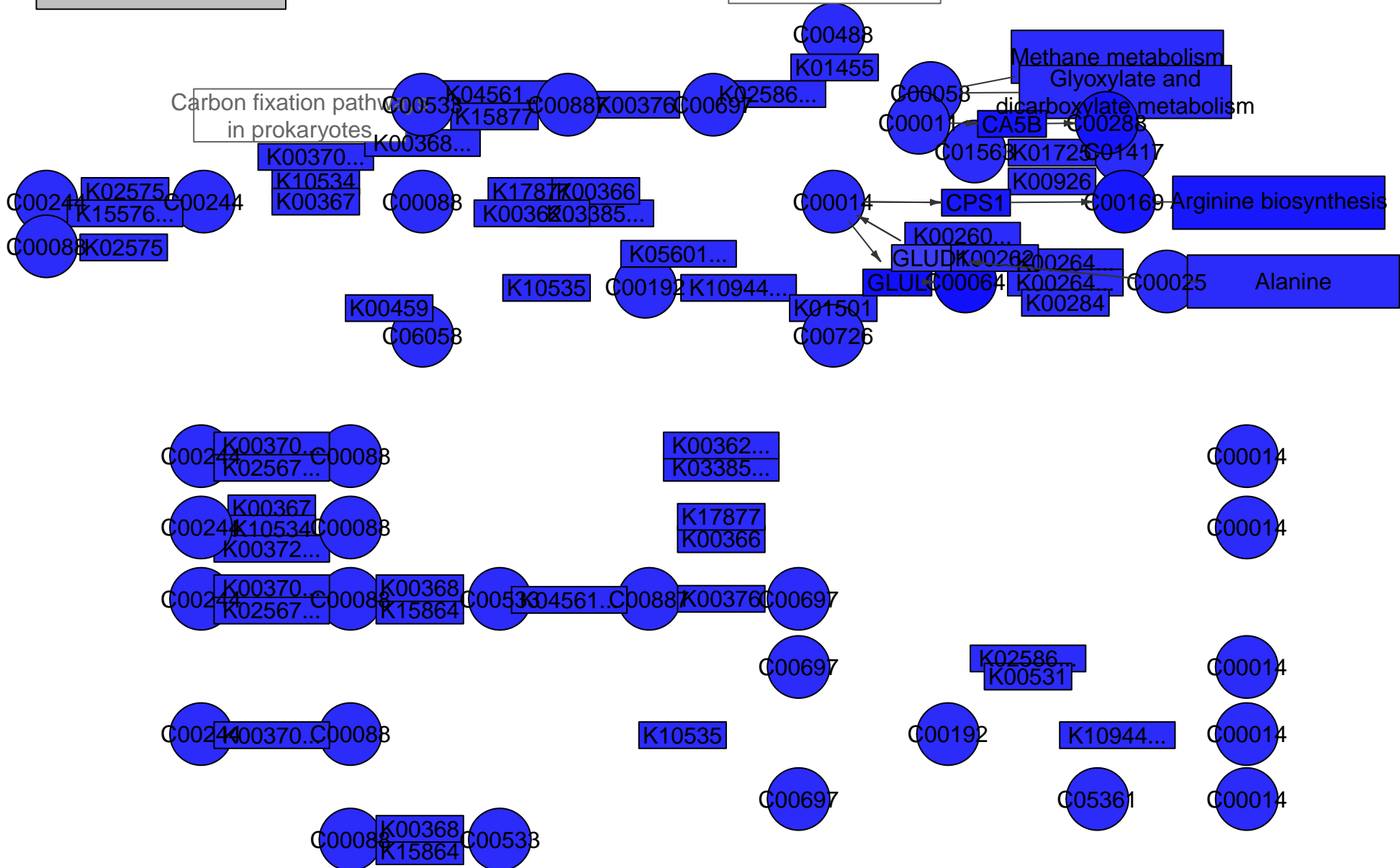
Nitrogen metabolism
MPI-016

Cyanoamino acid
metabolism



Nitrogen metabolism
MPI-017

Cyanoamino acid
metabolism



Nitrogen metabolism
MPI-018

Cyanoamino acid
metabolism

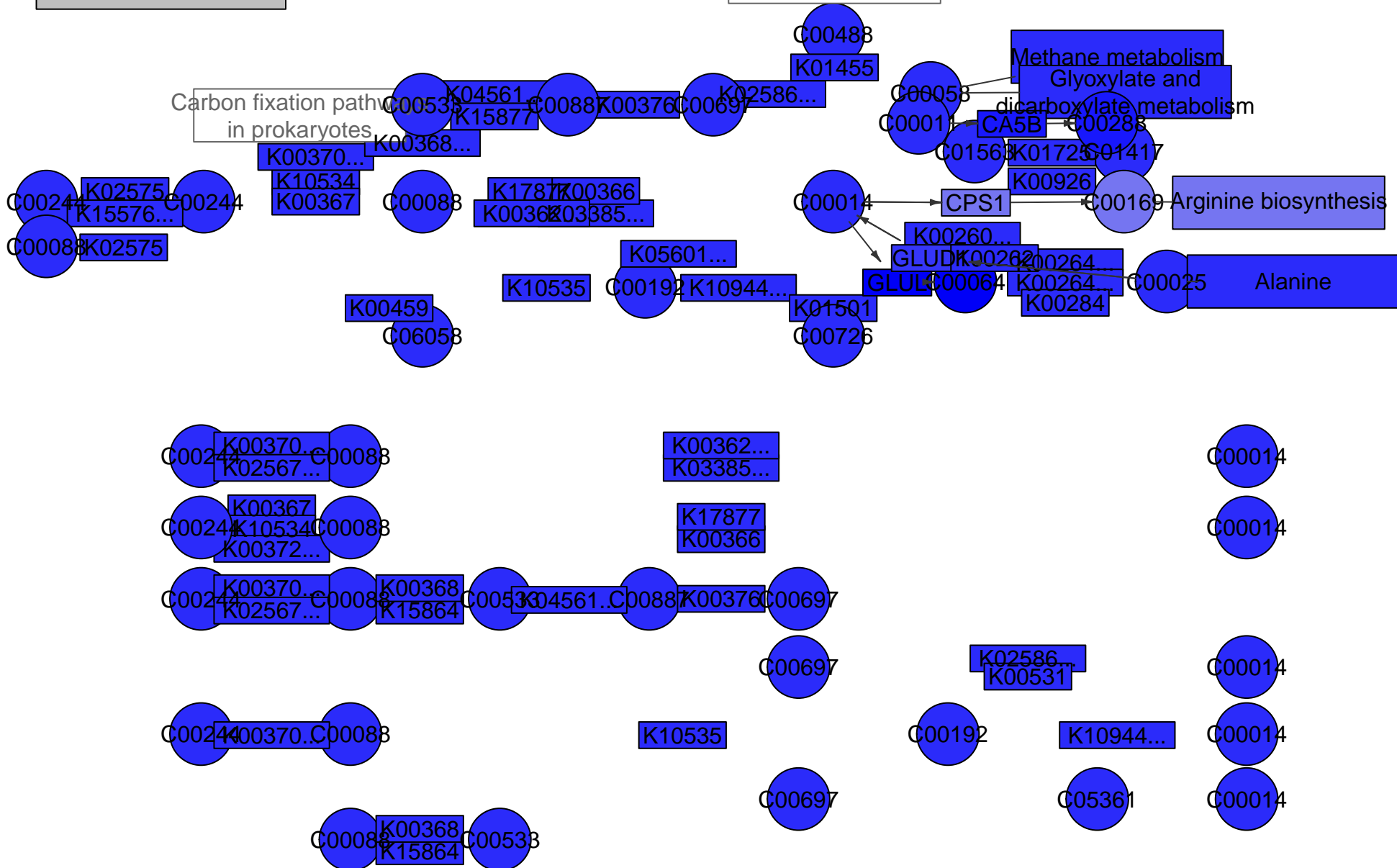
Carbon fixation pathway
in prokaryotes

Methane metabolism

Glyoxylate and
dicarboxylate metabolism

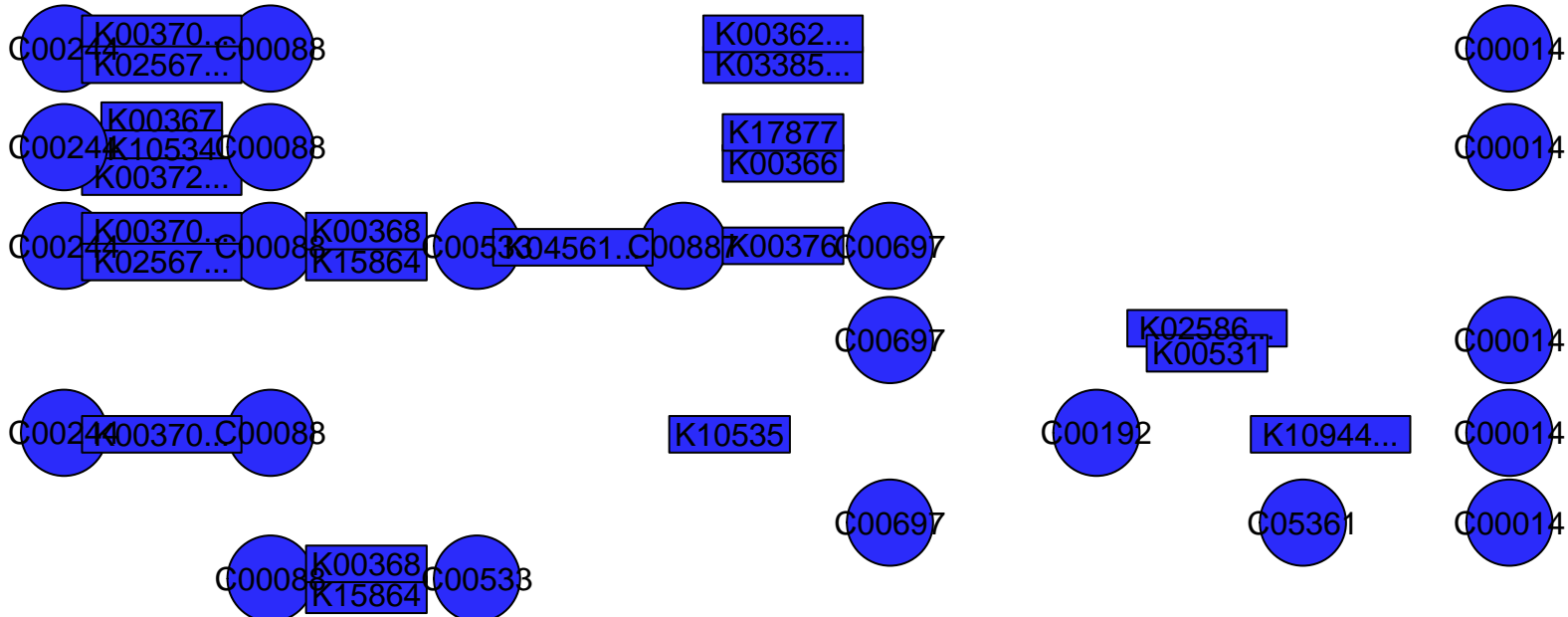
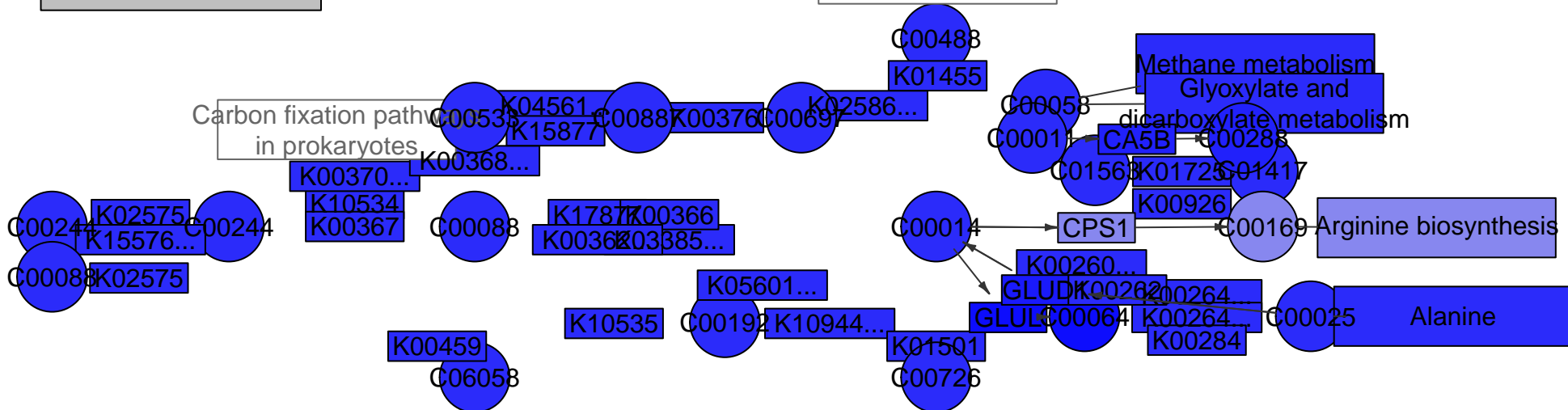
Arginine biosynthesis

Alanine



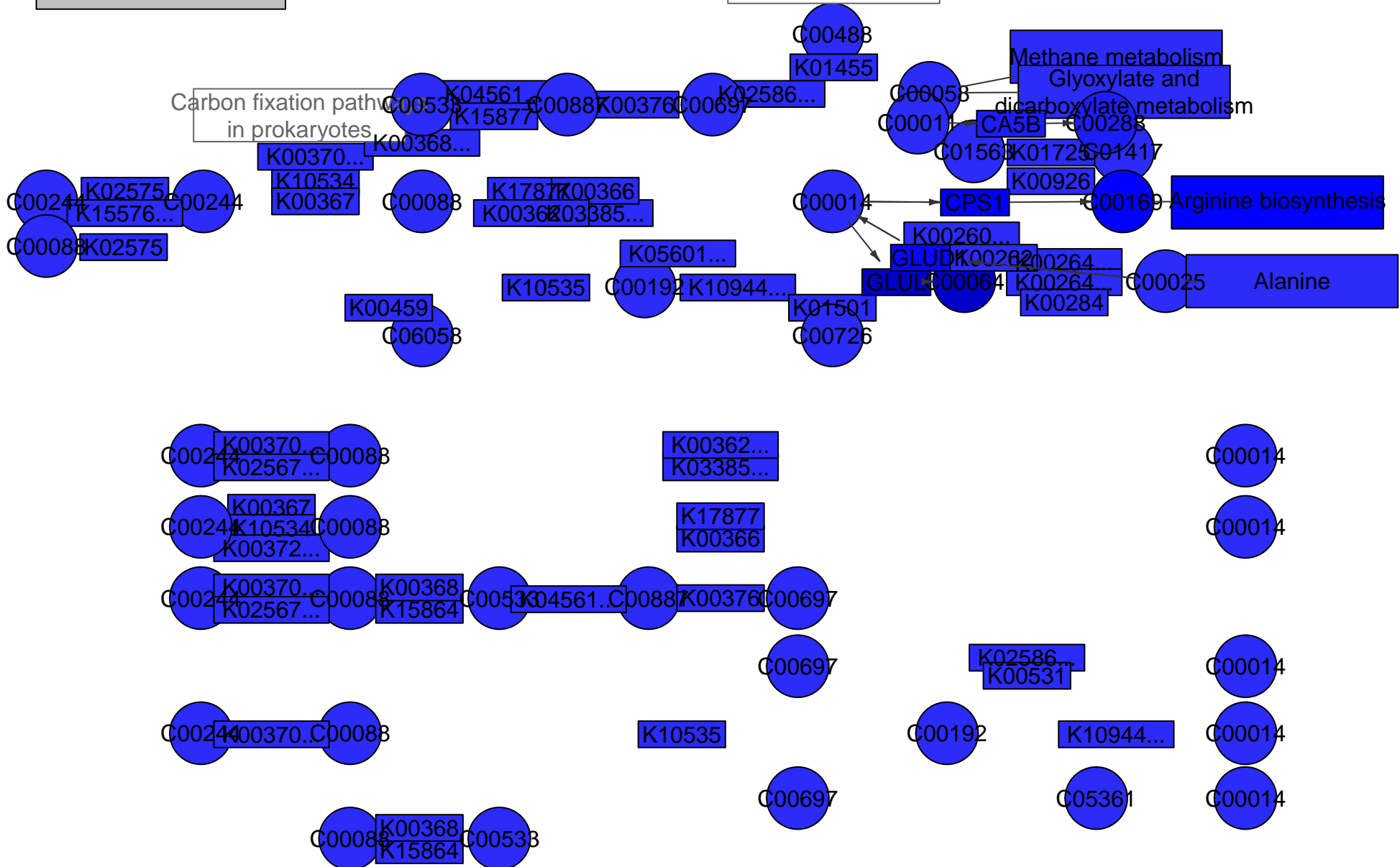
Nitrogen metabolism
MPI-027

Cyanoamino acid
metabolism



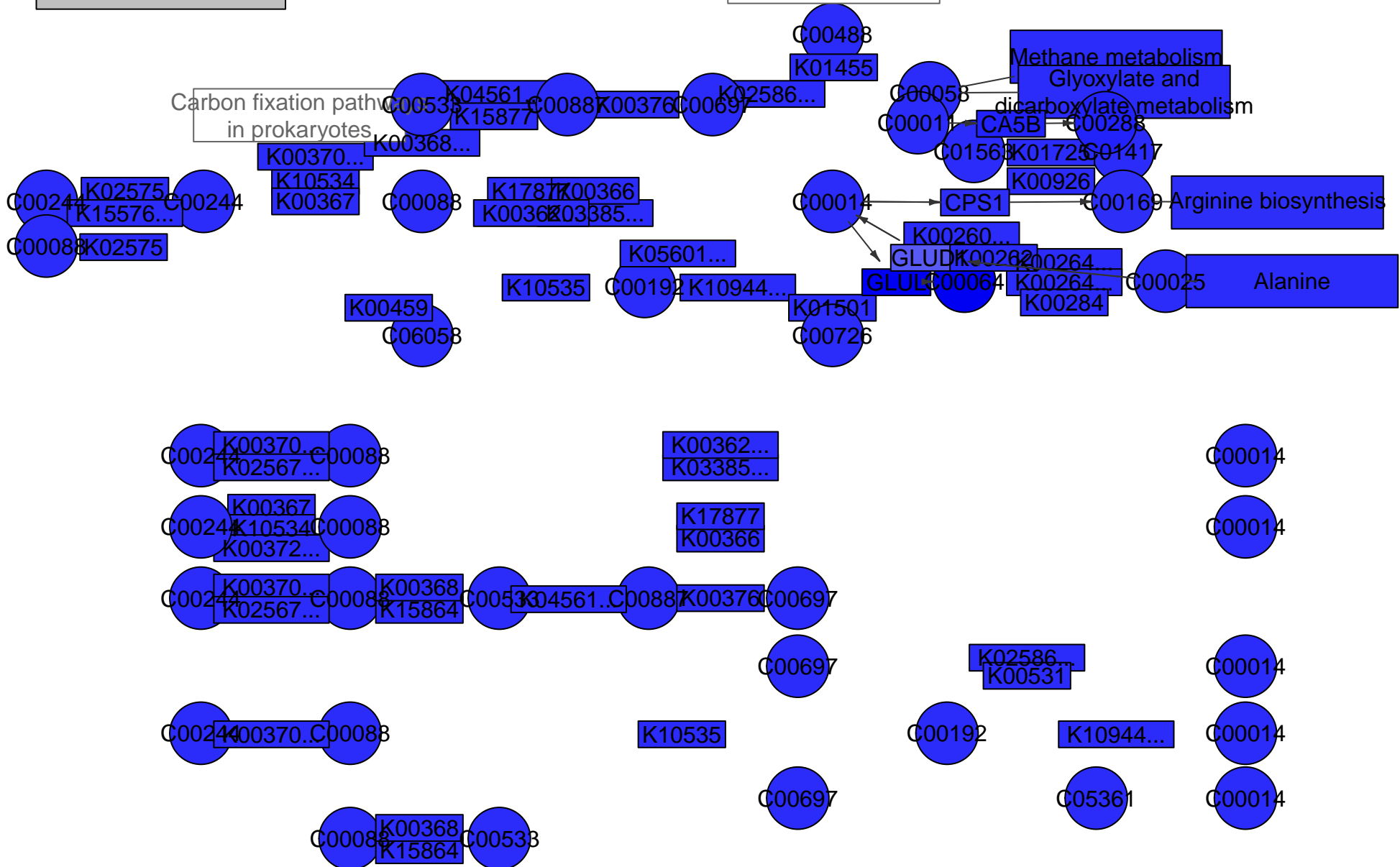
Nitrogen metabolism
MPI-028

Cyanoamino acid
metabolism



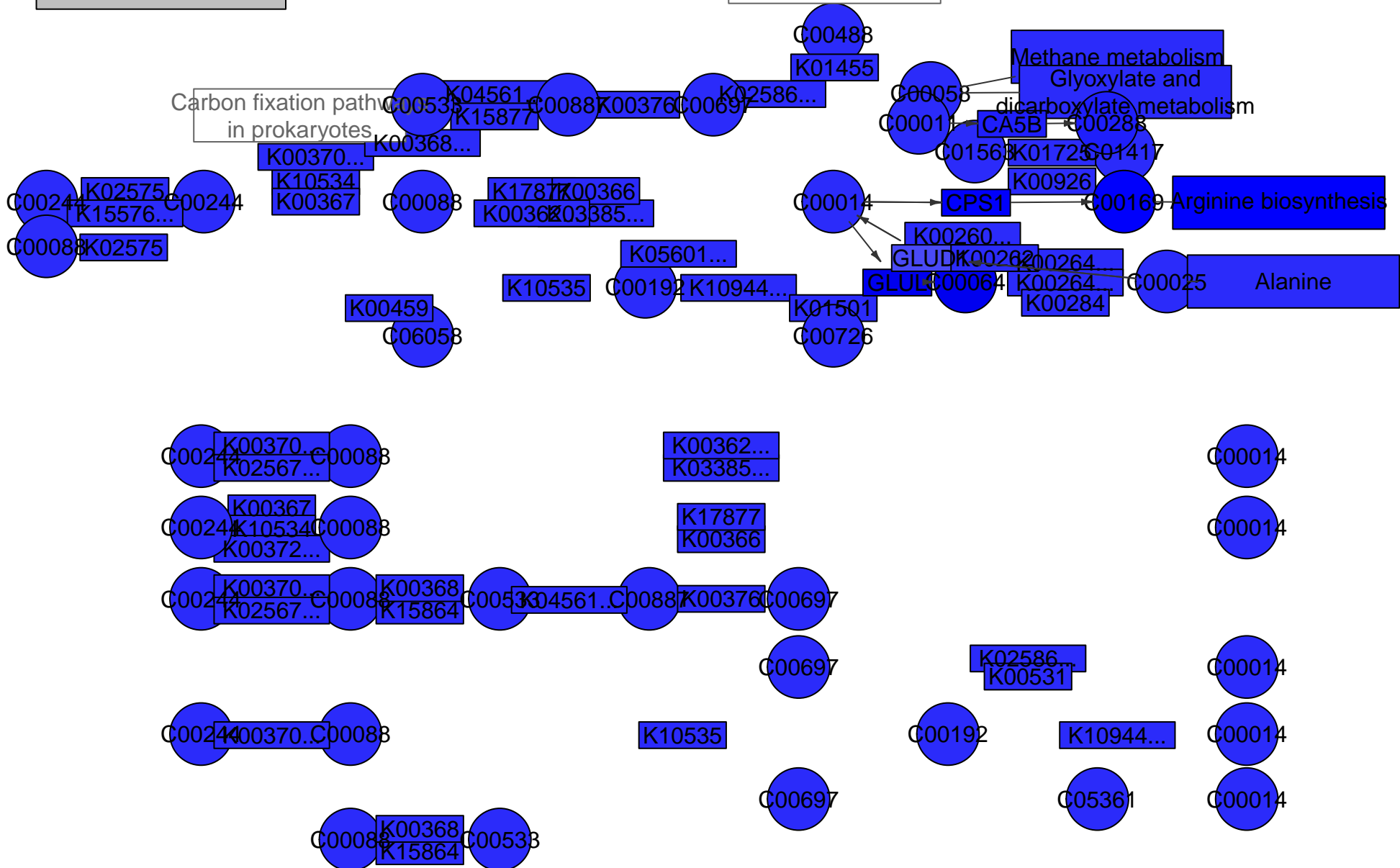
Nitrogen metabolism
MPI-034

Cyanoamino acid
metabolism



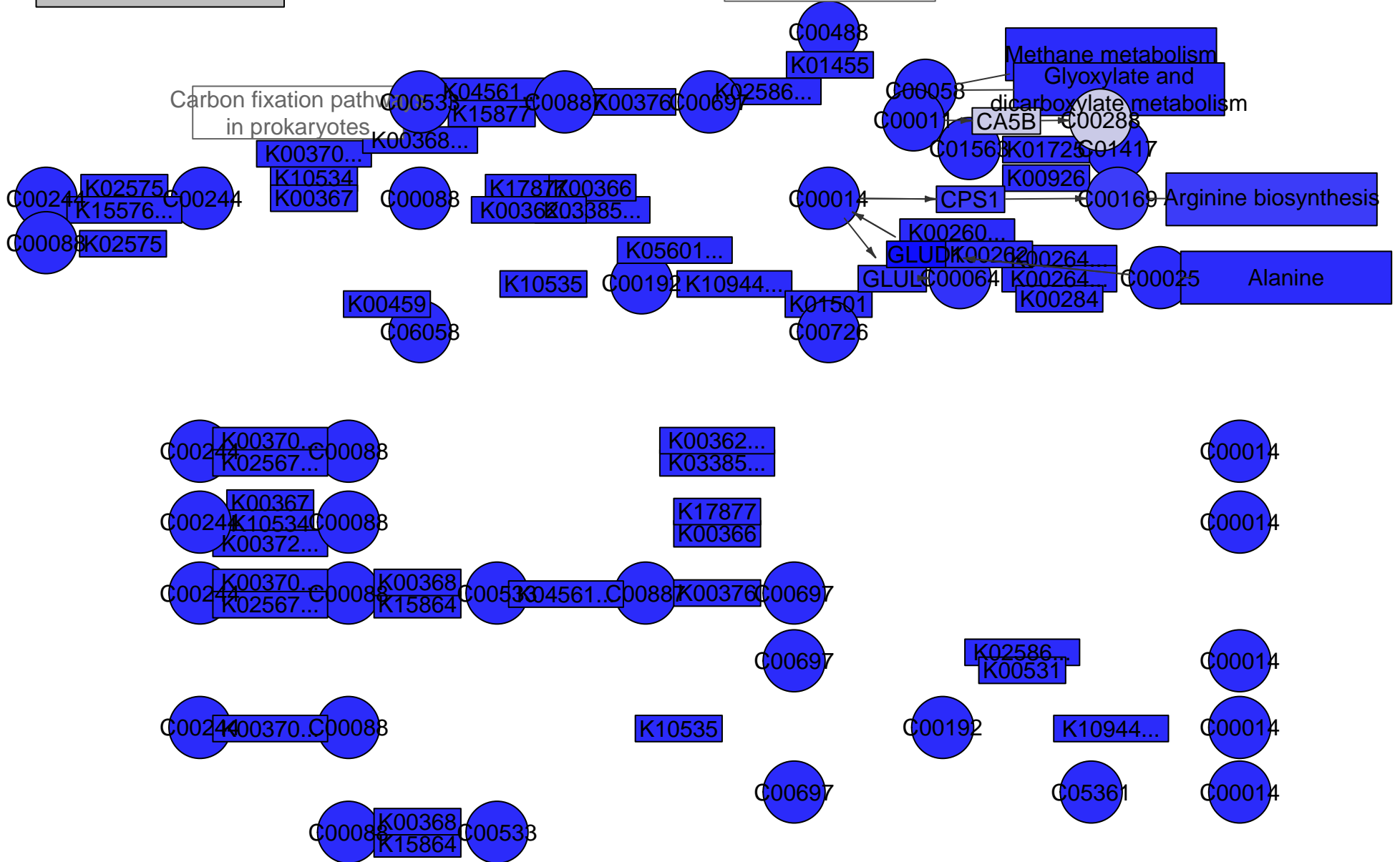
Nitrogen metabolism
MPI-044

Cyanoamino acid
metabolism



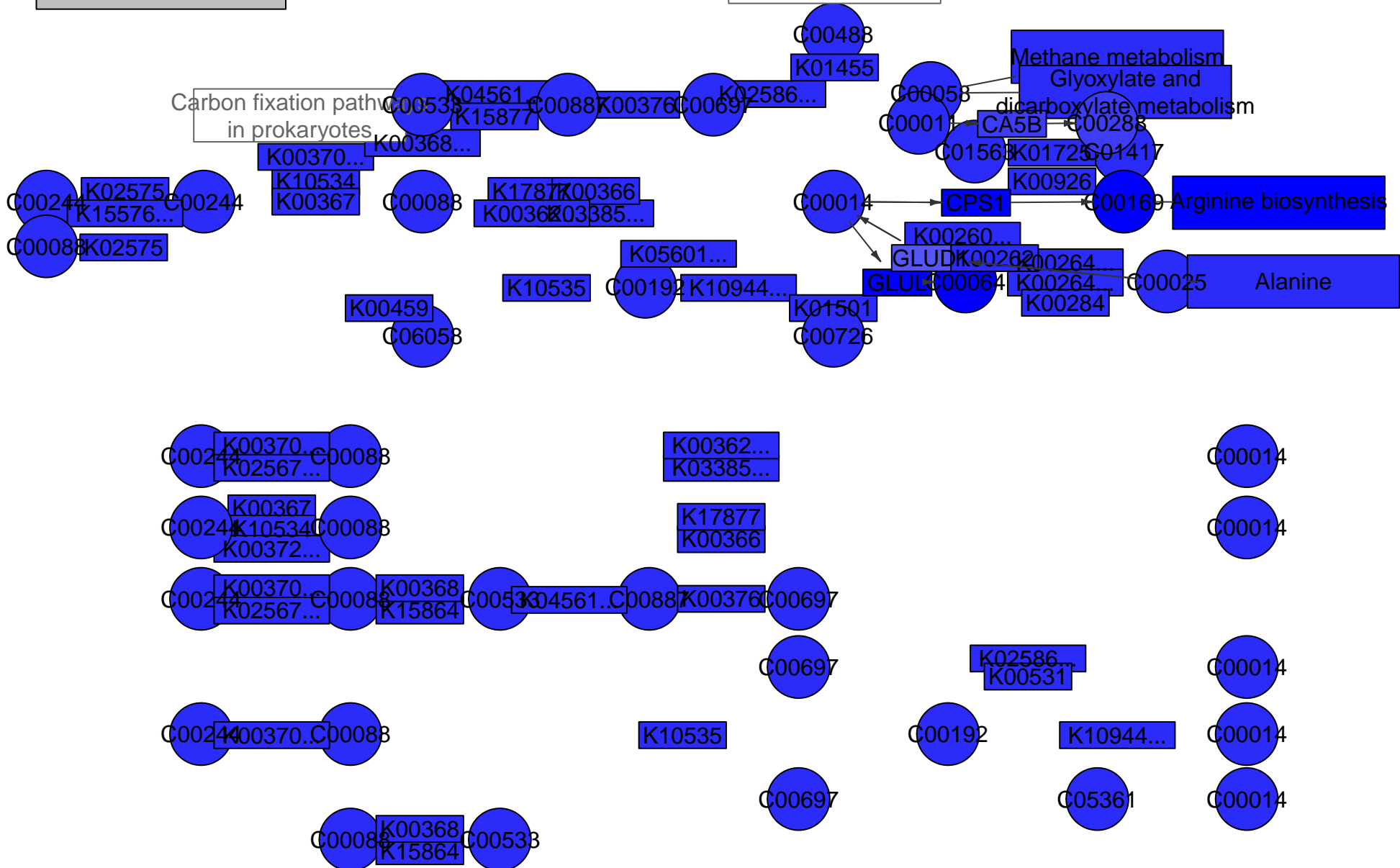
Nitrogen metabolism
MPI-065

Cyanoamino acid
metabolism



Nitrogen metabolism
MPI-077

Cyanoamino acid
metabolism



Nitrogen metabolism
MPI-078

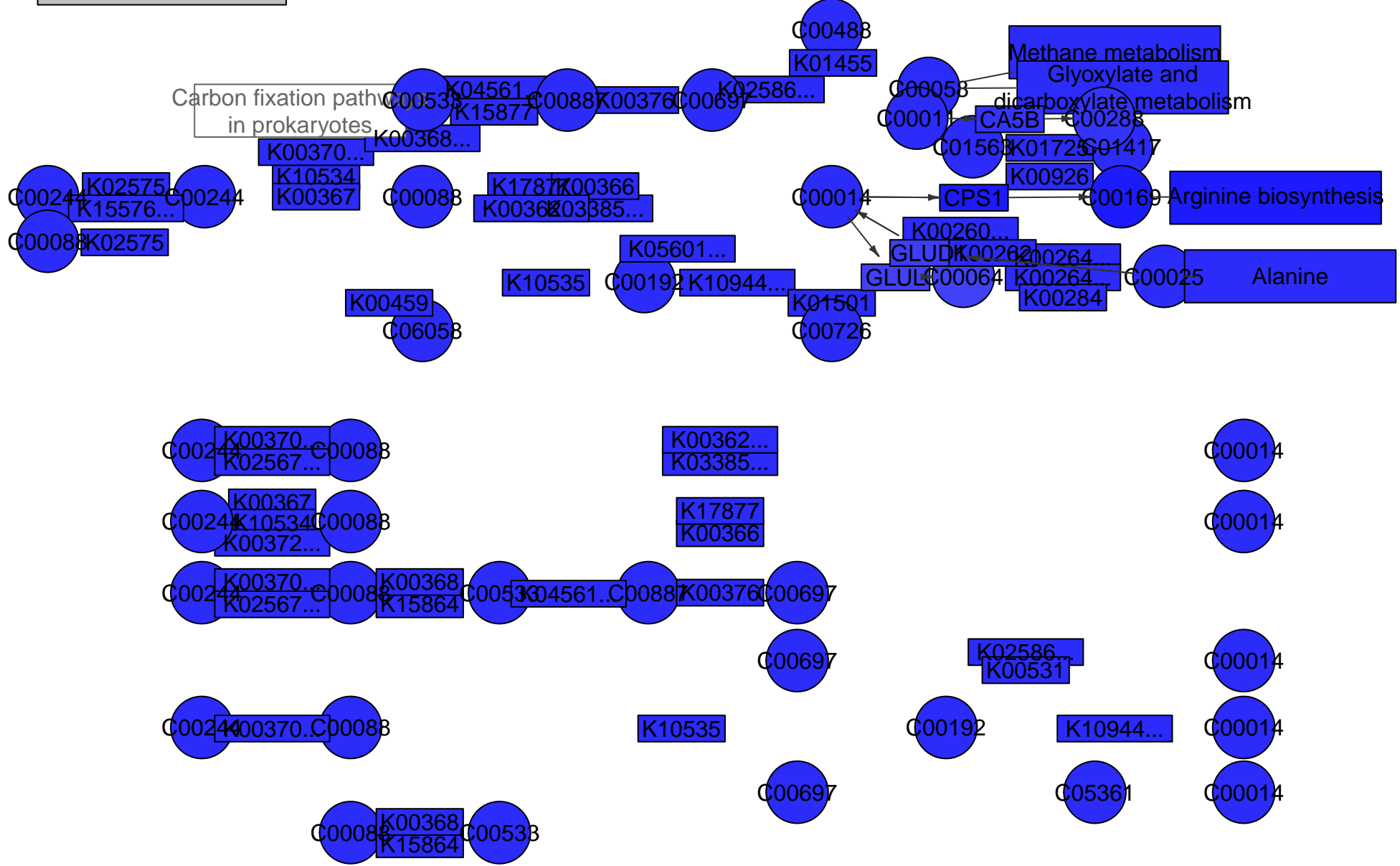
Cyanoamino acid
metabolism

Carbon fixation pathway
in prokaryotes

Methane metabolism
Glyoxylate and
dicarboxylate metabolism

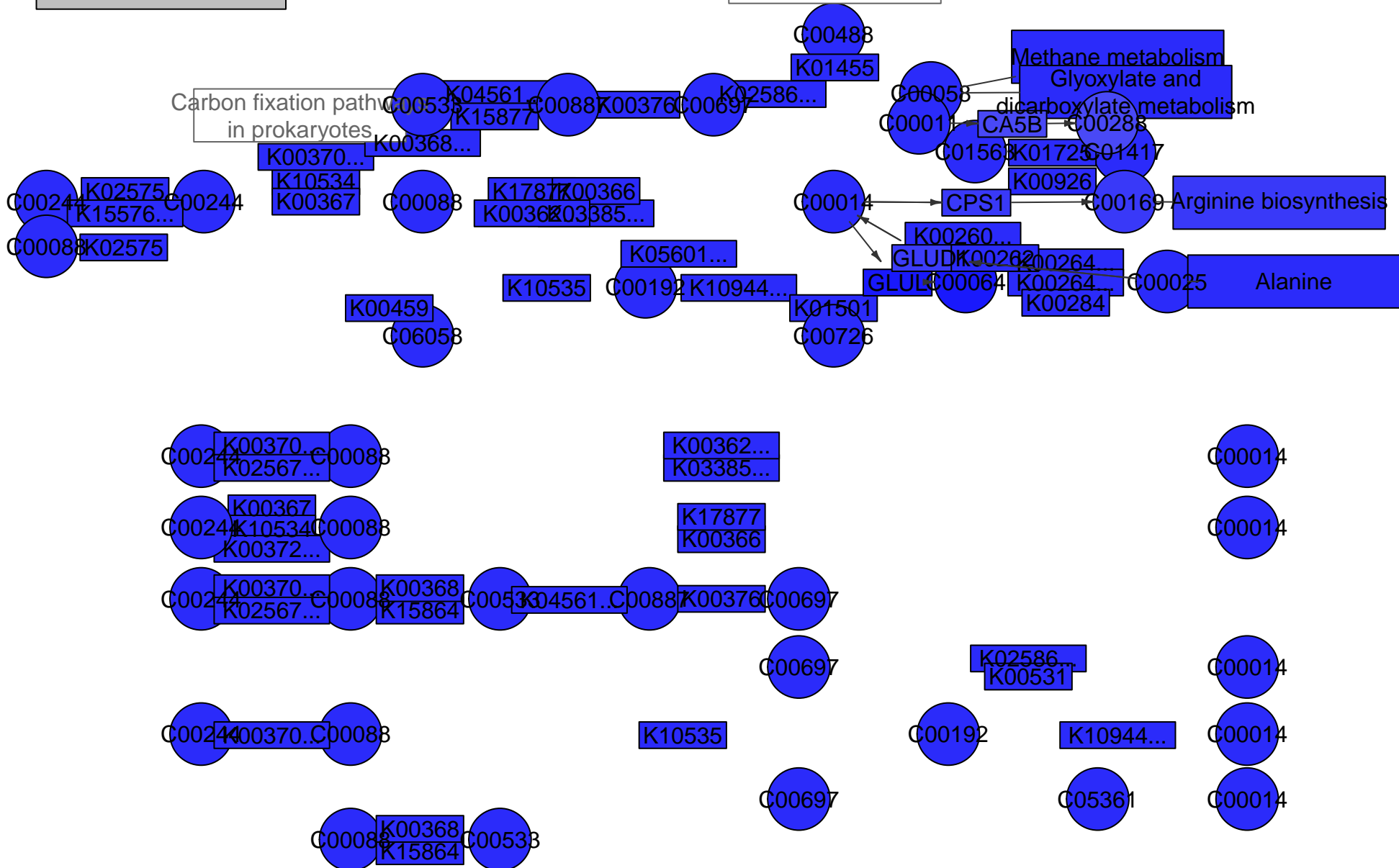
Arginine biosynthesis

Alanine



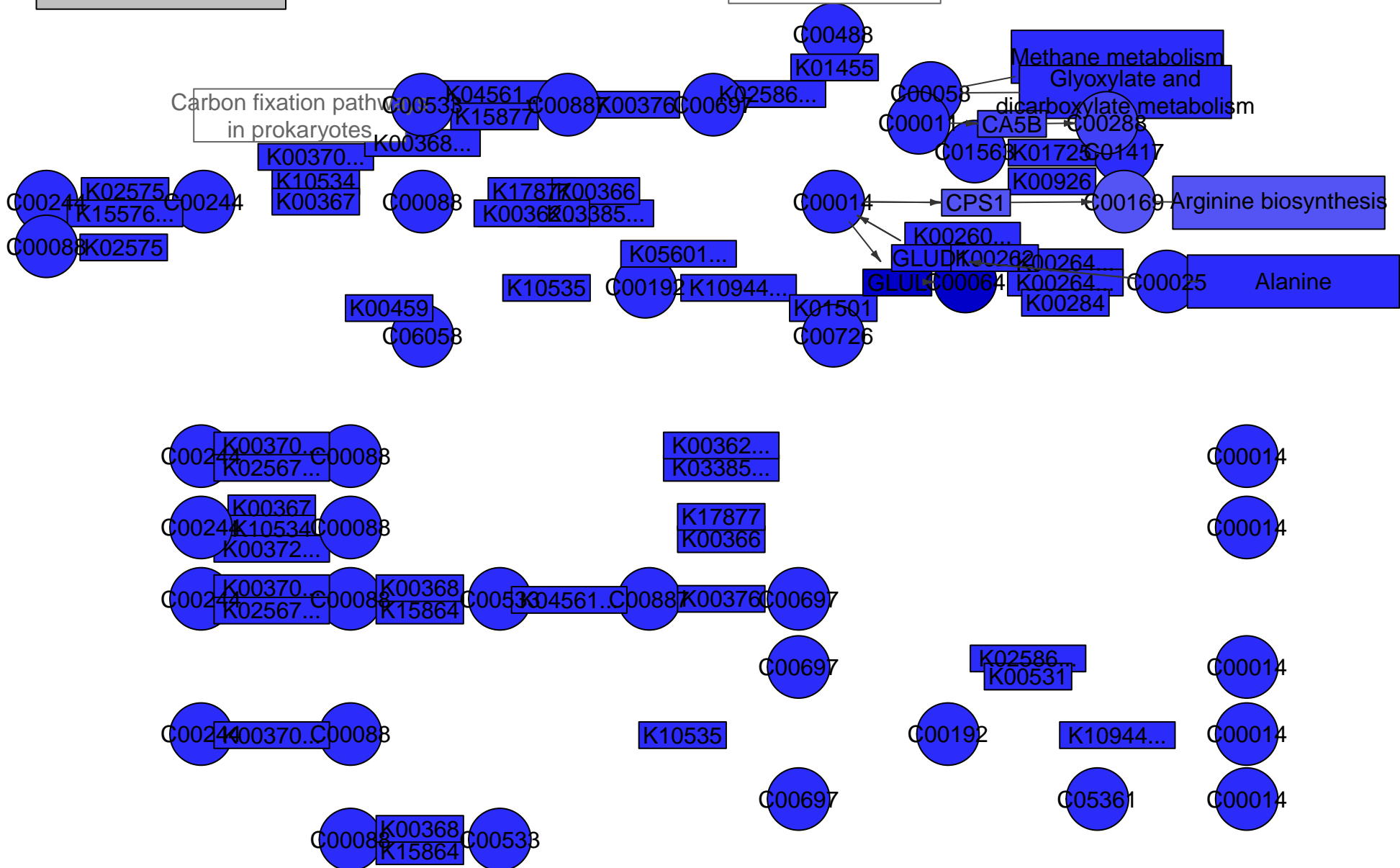
Nitrogen metabolism
MPI-079

Cyanoamino acid
metabolism



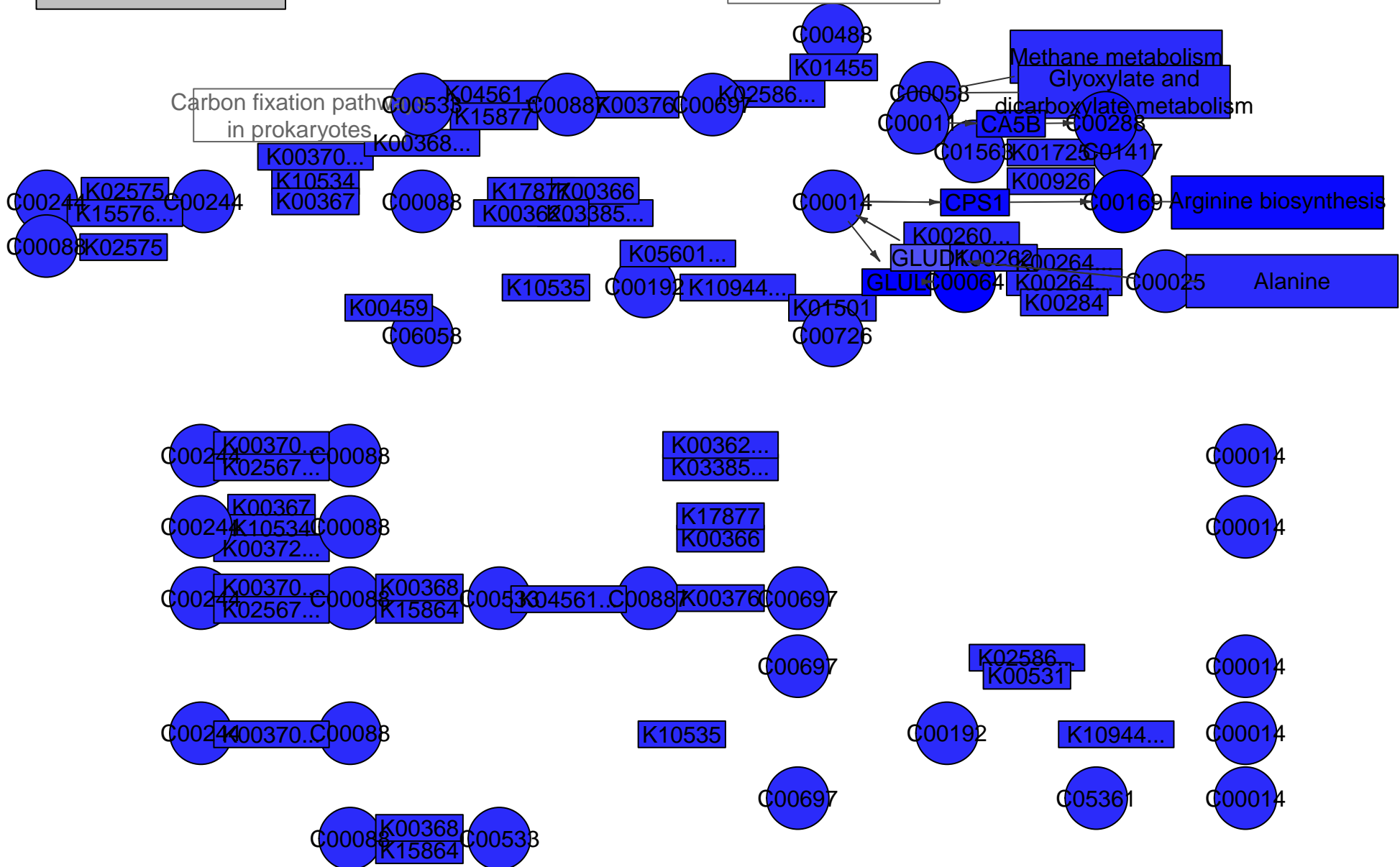
Nitrogen metabolism
MPI-080

Cyanoamino acid
metabolism



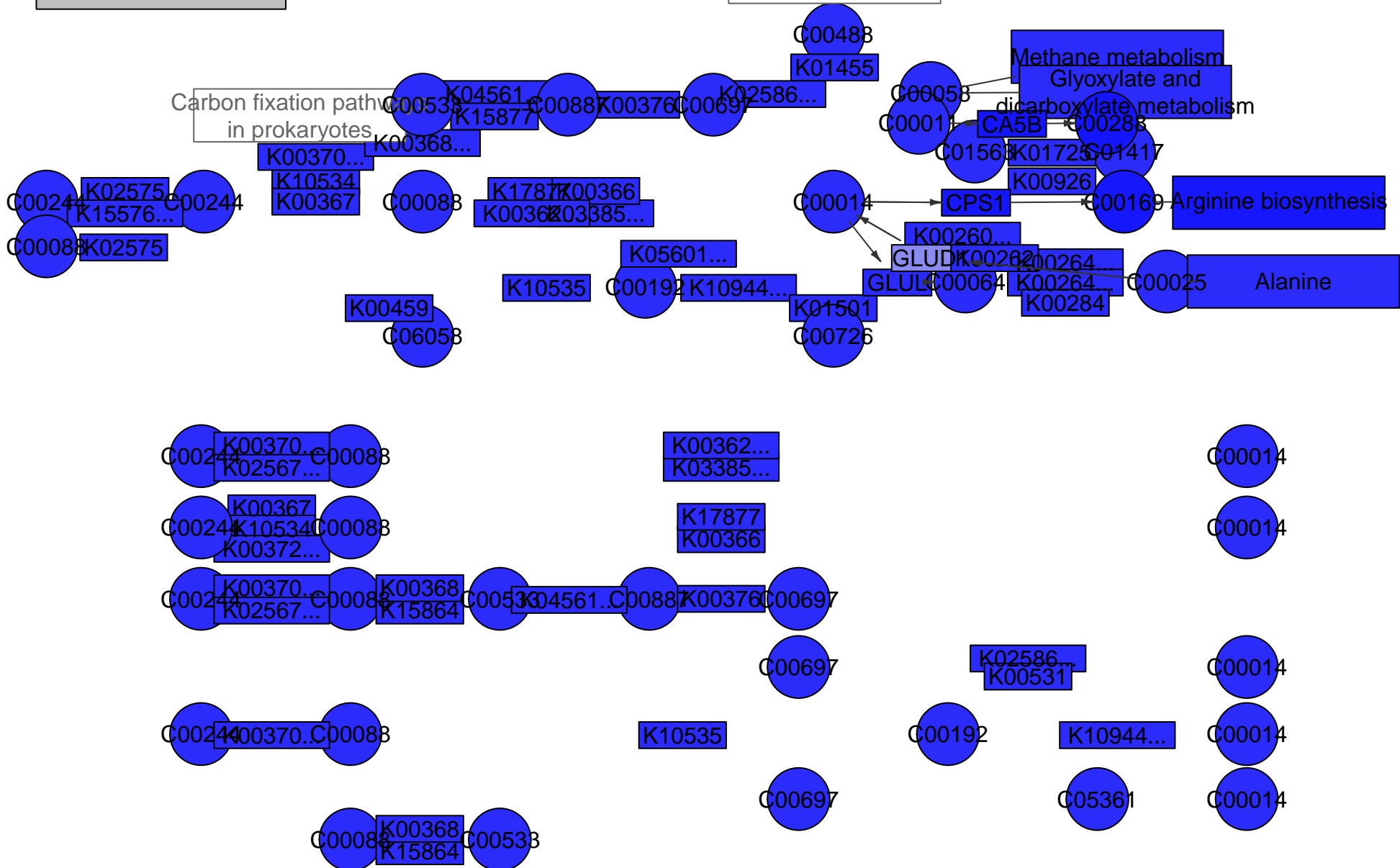
Nitrogen metabolism
MPI-081

Cyanoamino acid
metabolism



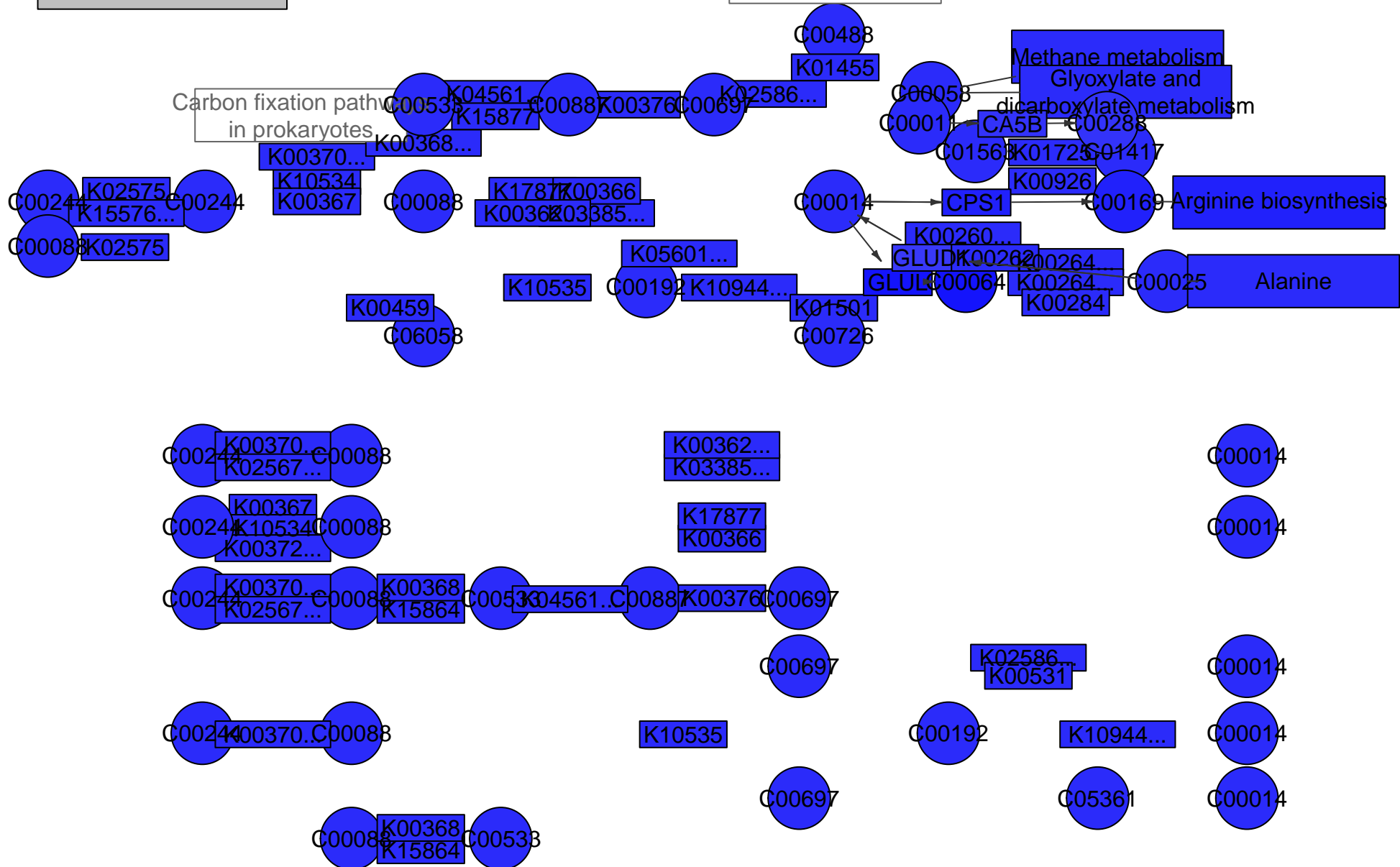
Nitrogen metabolism
MPI-082

Cyanoamino acid
metabolism



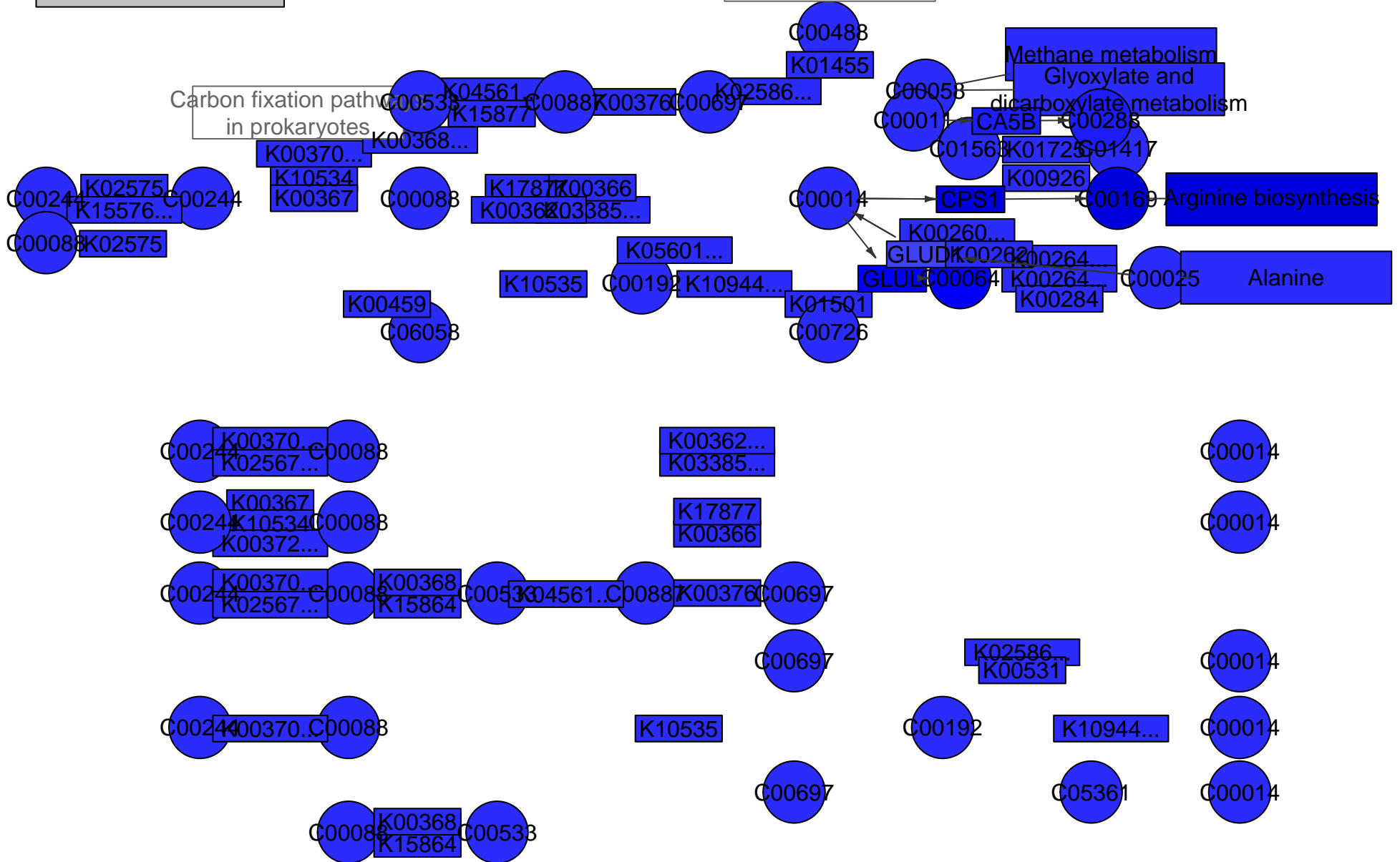
Nitrogen metabolism
MPI-084

Cyanoamino acid
metabolism



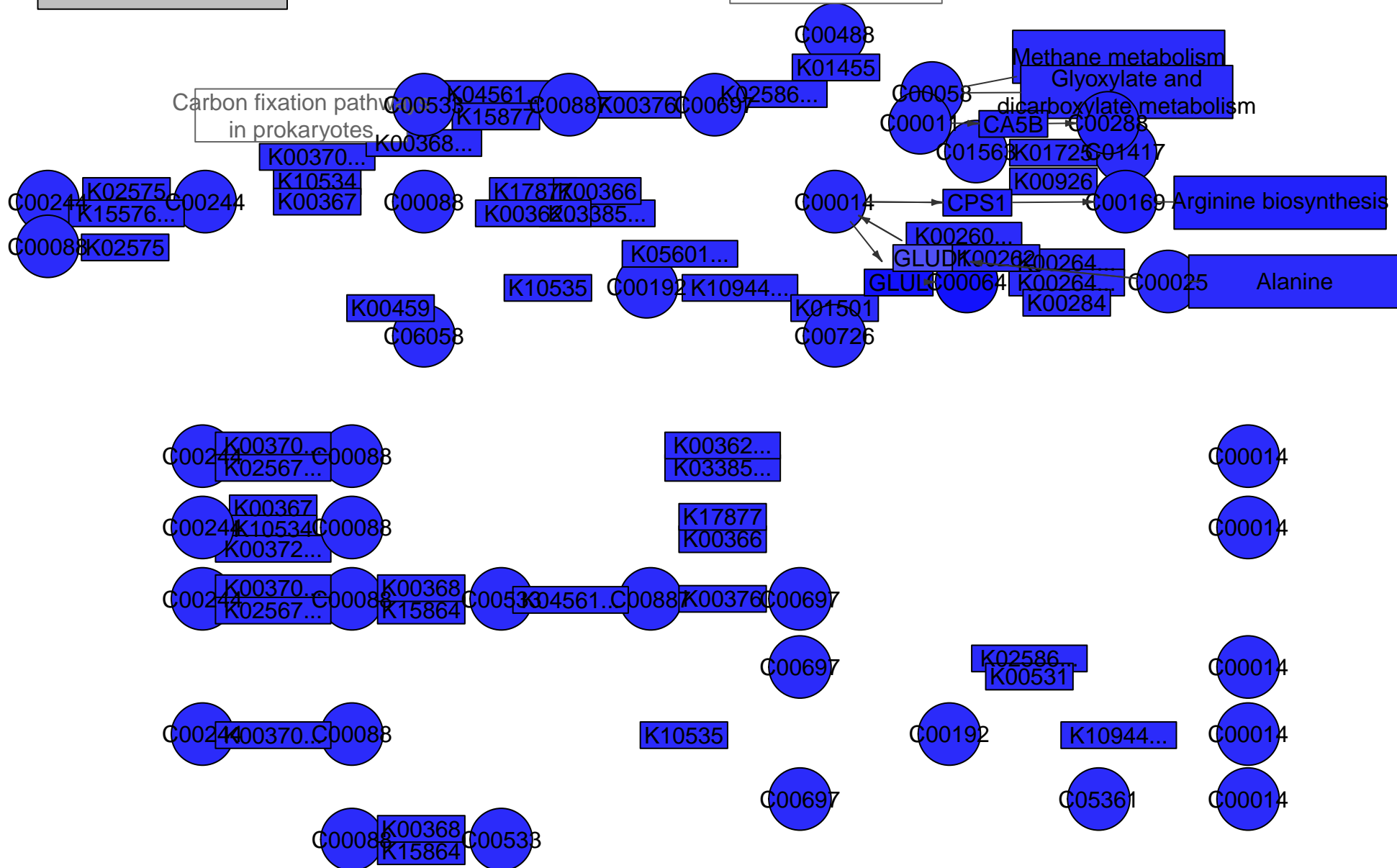
Nitrogen metabolism
MPI-085

Cyanoamino acid
metabolism



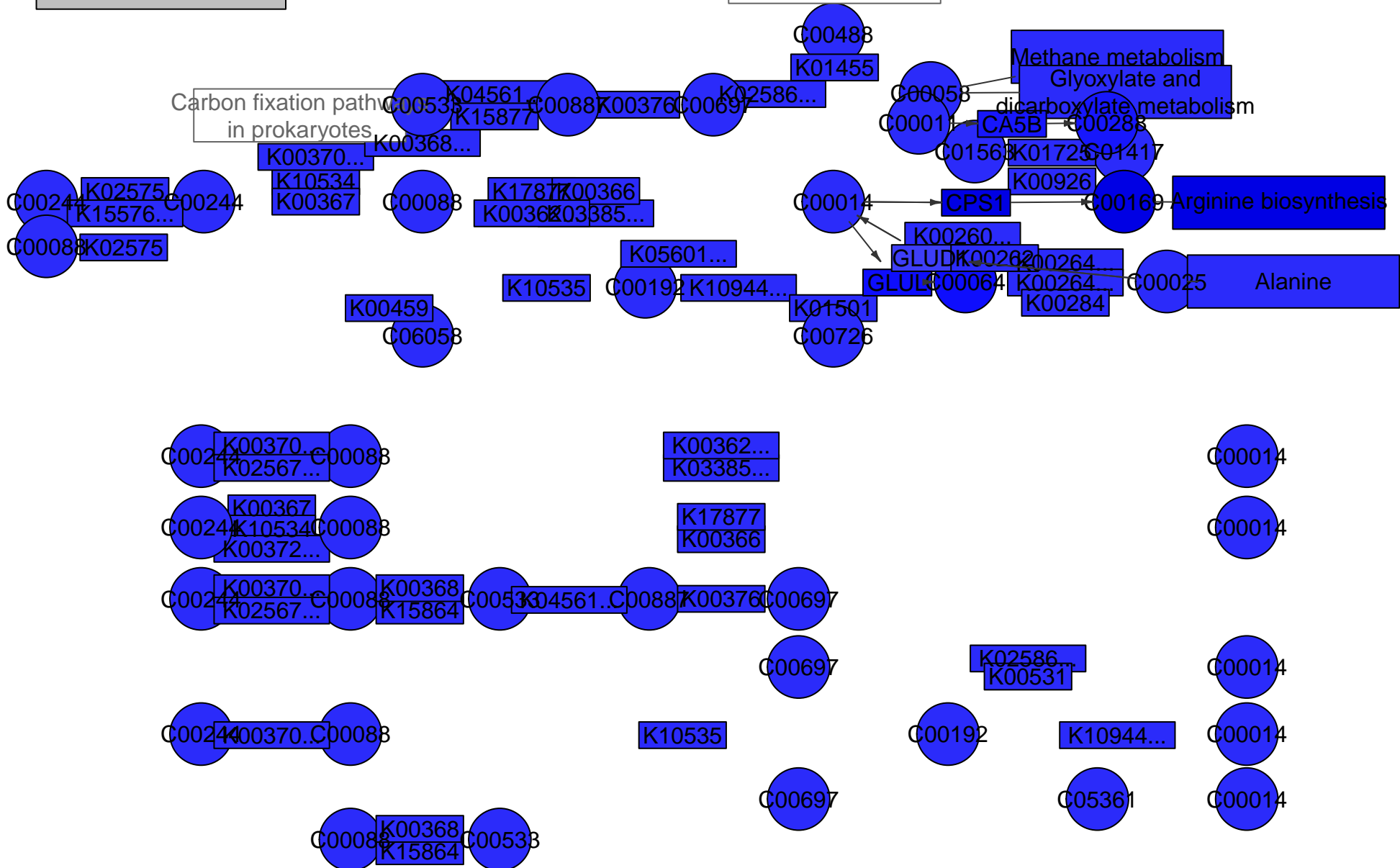
Nitrogen metabolism
MPI-086

Cyanoamino acid
metabolism



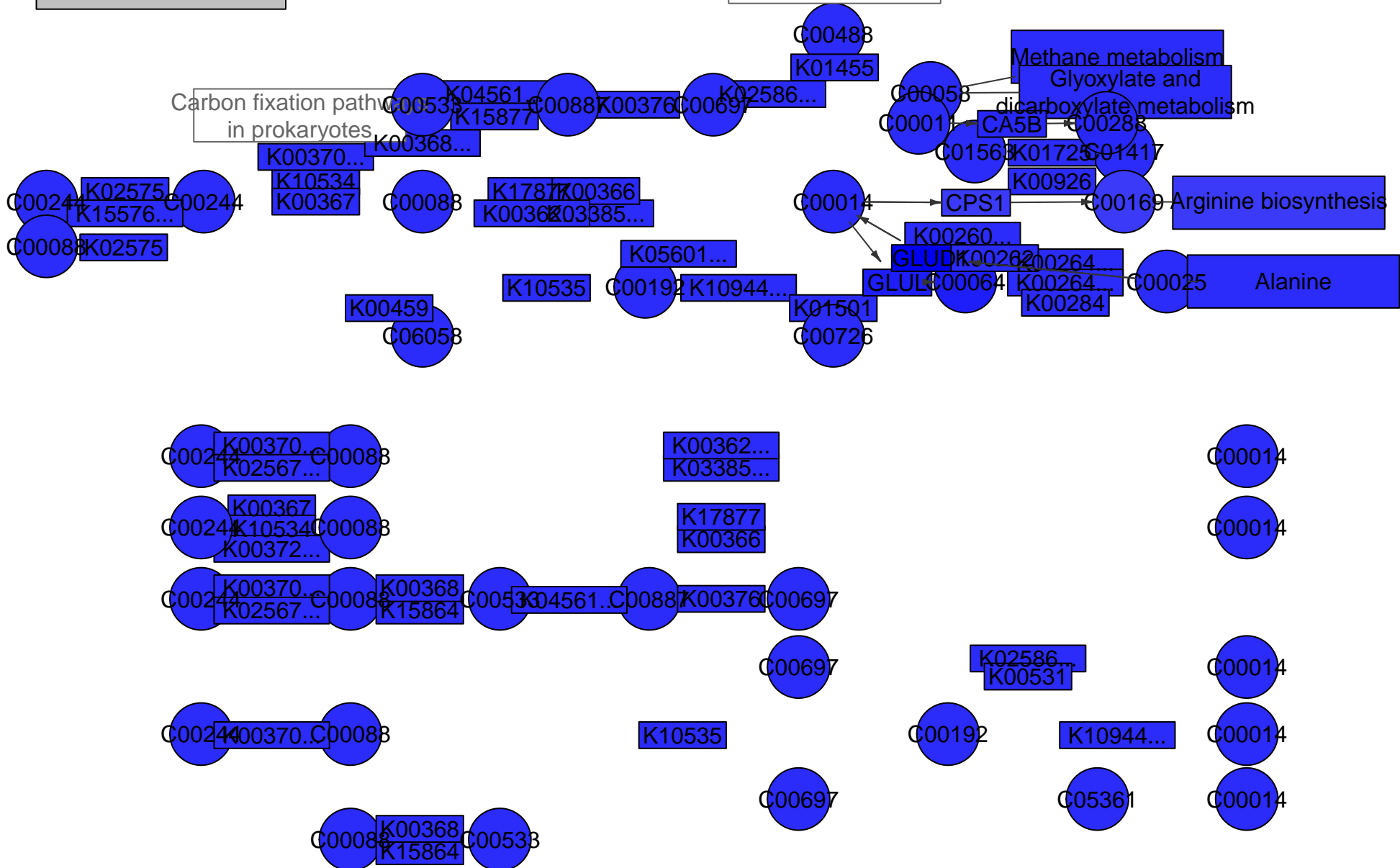
Nitrogen metabolism
MPI-087

Cyanoamino acid
metabolism



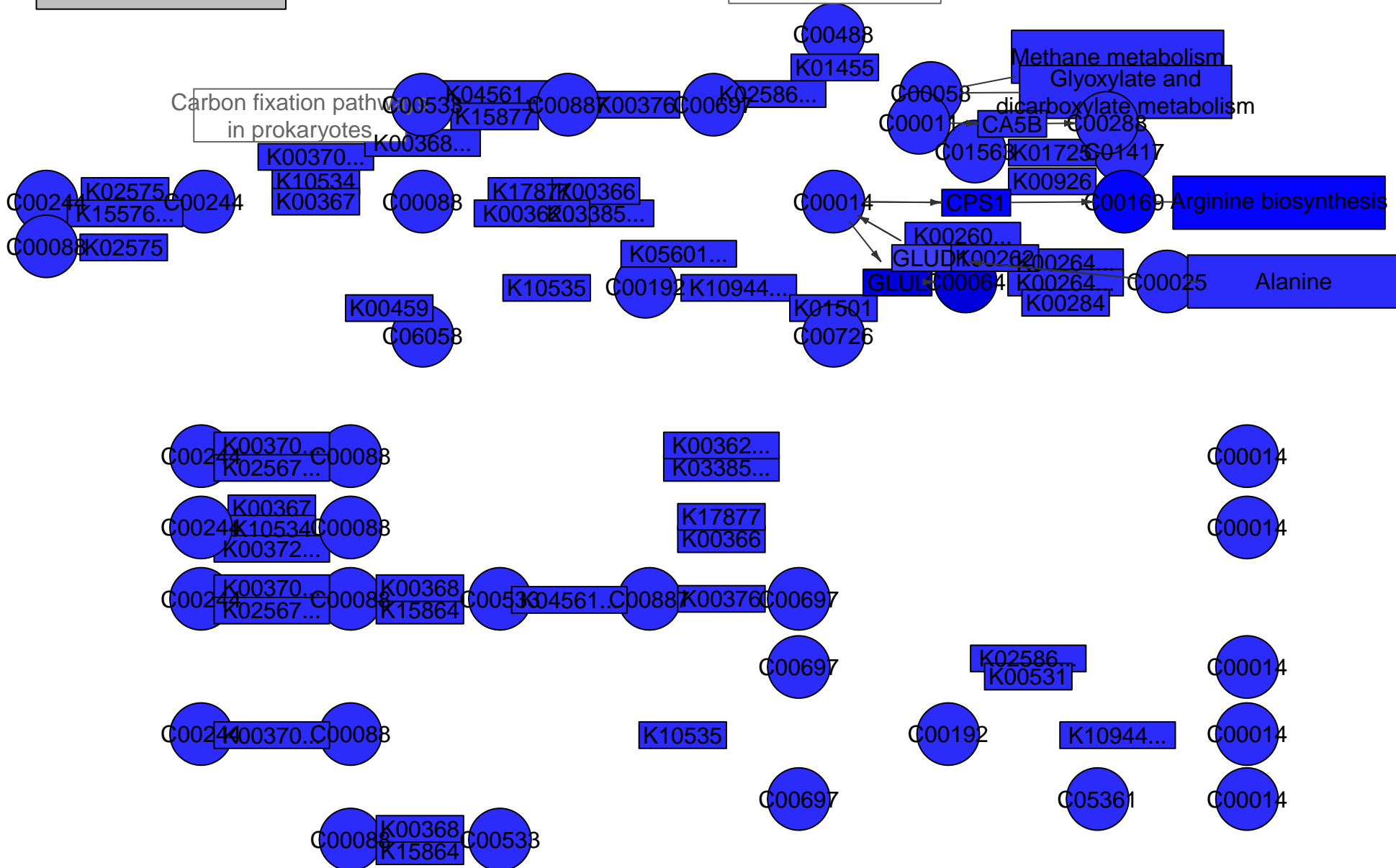
Nitrogen metabolism
MPI-089

Cyanoamino acid
metabolism



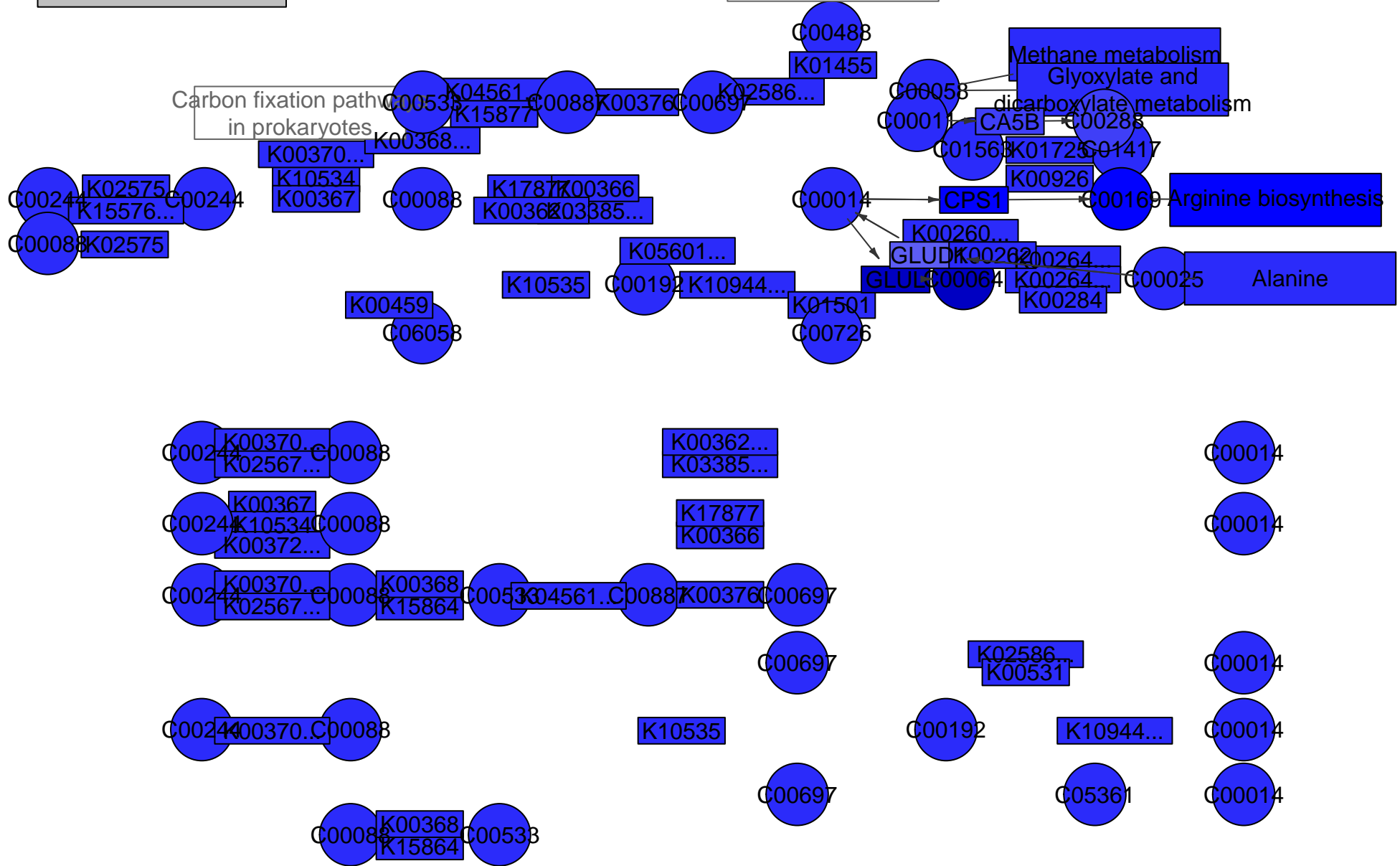
Nitrogen metabolism
MPI-114

Cyanoamino acid
metabolism



Nitrogen metabolism
MPI-138

Cyanoamino acid
metabolism



Nitrogen metabolism
MPI-139

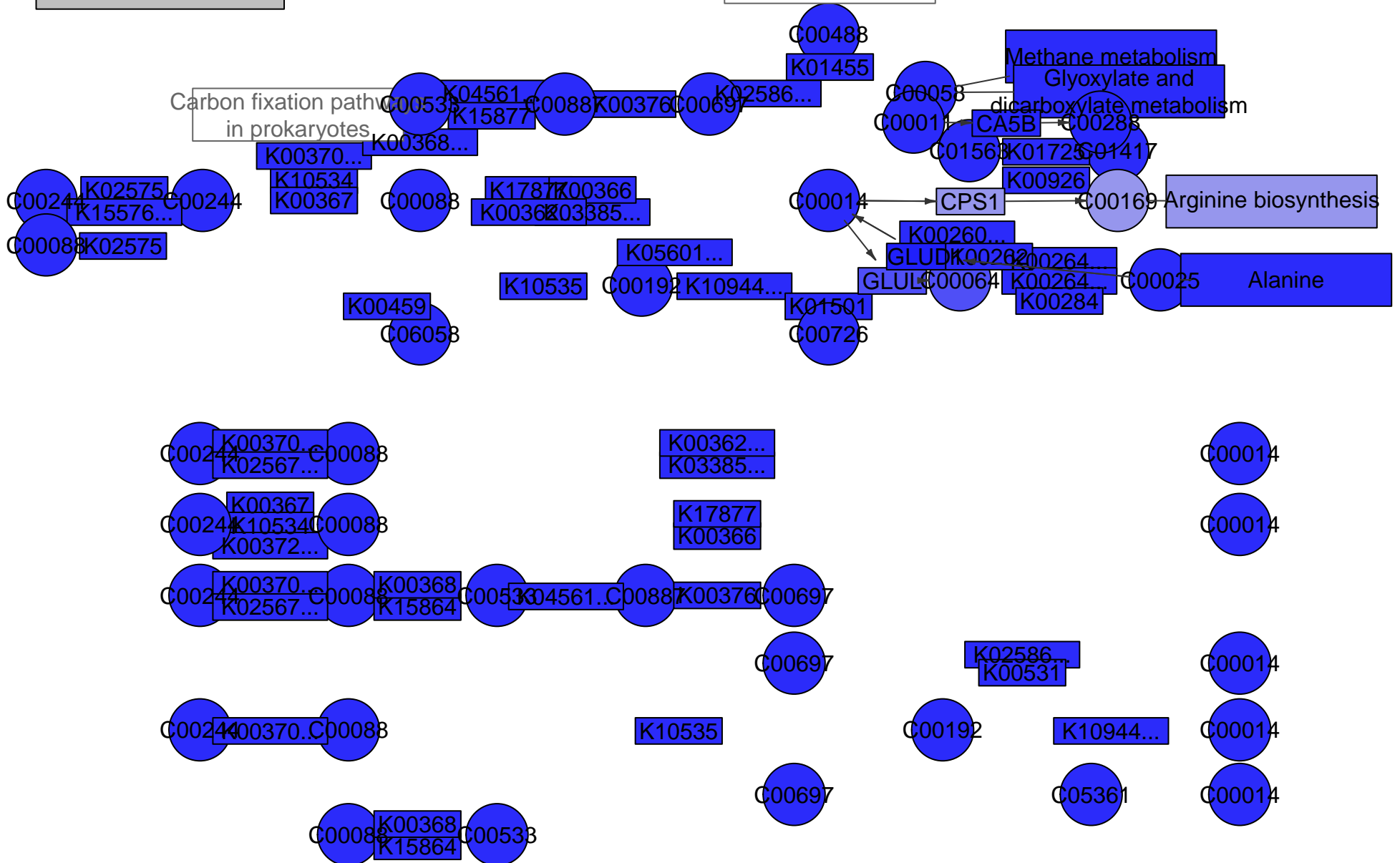
Cyanoamino acid
metabolism

Carbon fixation pathway
in prokaryotes

Methane metabolism
Glyoxylate and
dicarboxylate metabolism

Arginine biosynthesis

Alanine



Nitrogen metabolism
MPI-140

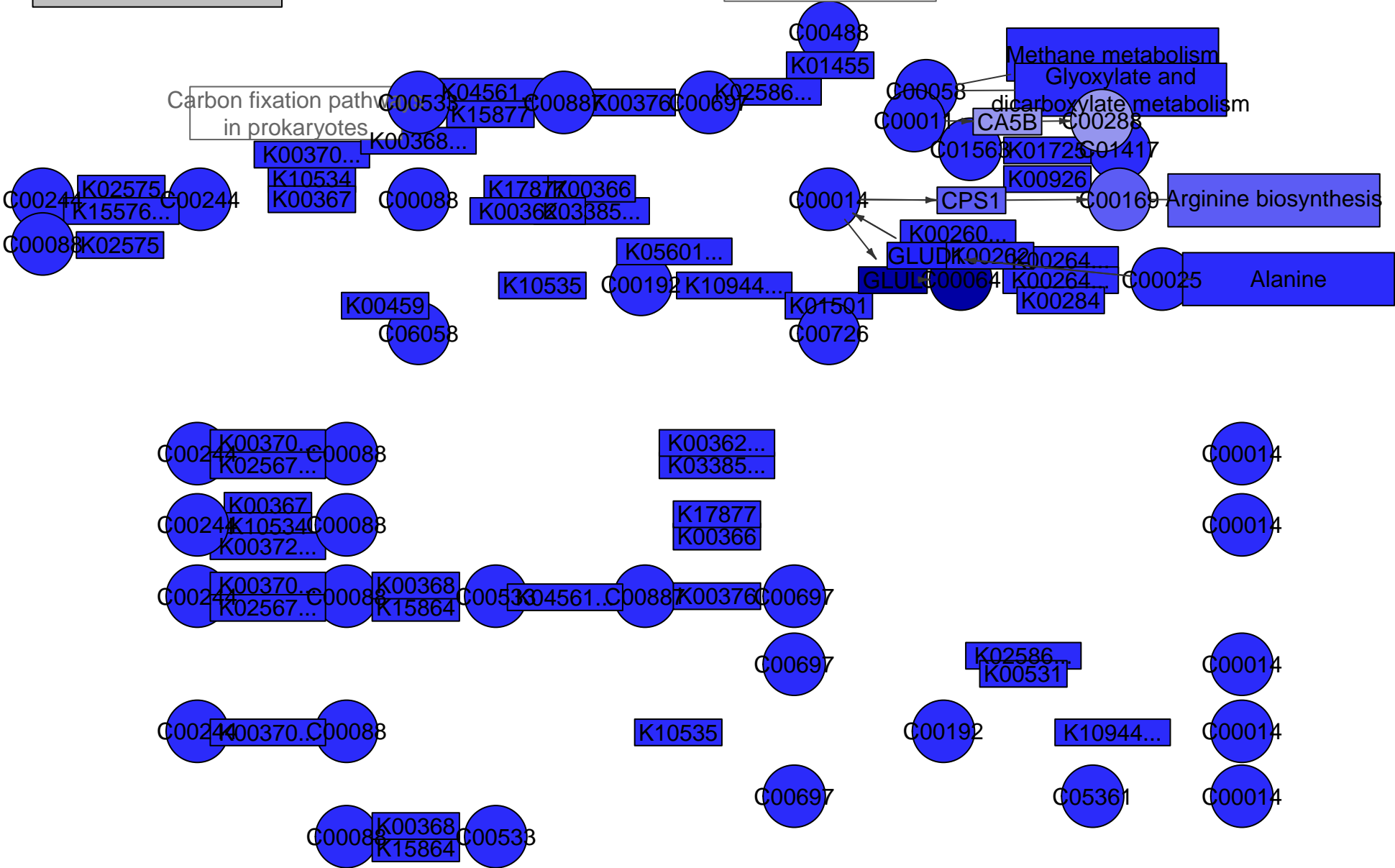
Cyanoamino acid
metabolism

Carbon fixation pathway
in prokaryotes

Methane metabolism
Glyoxylate and
dicarboxylate metabolism

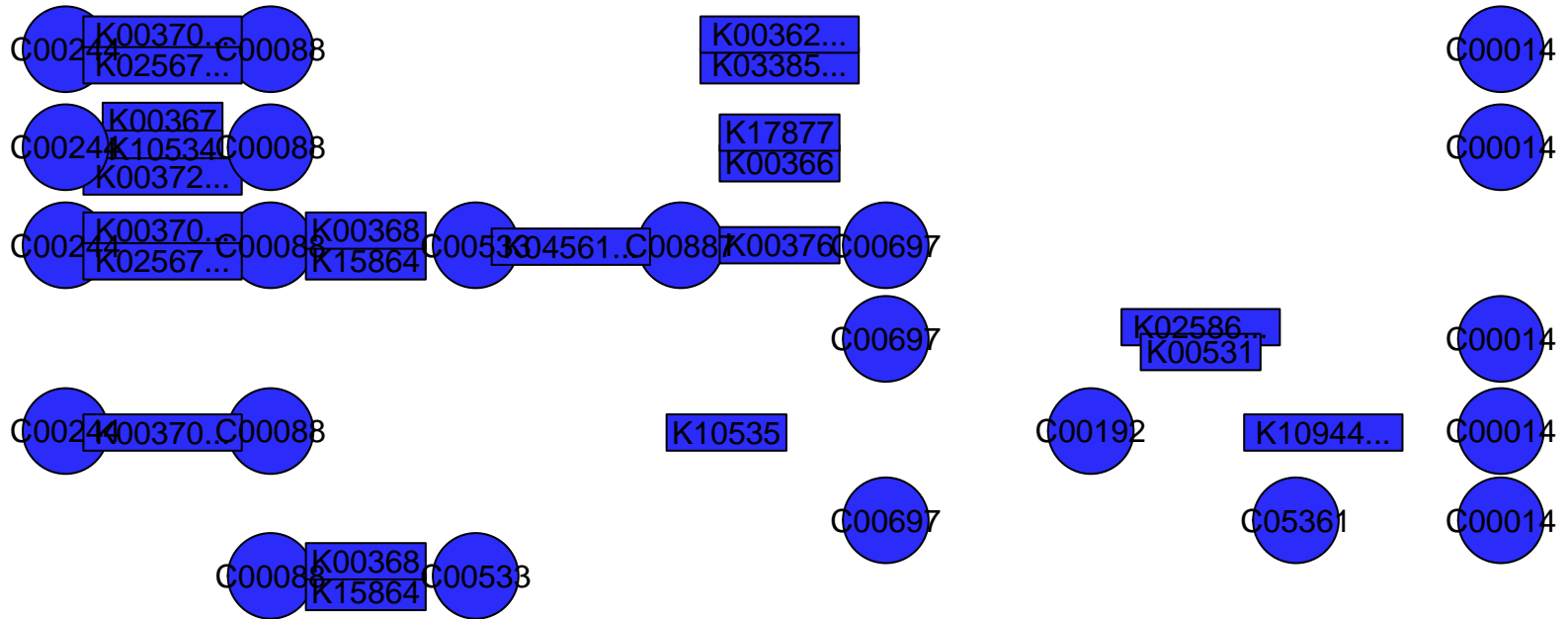
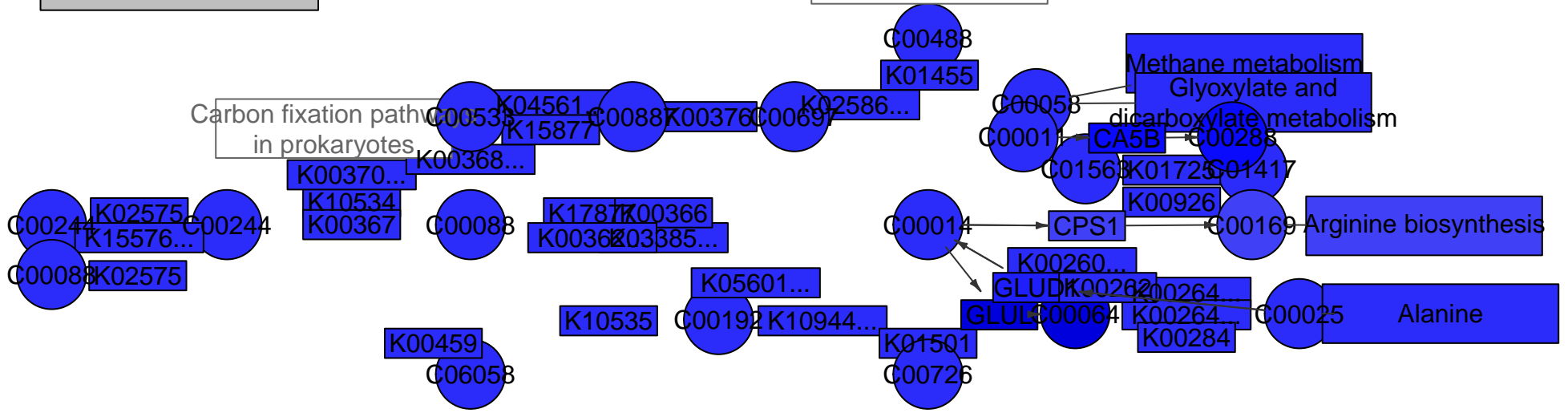
Arginine biosynthesis

Alanine



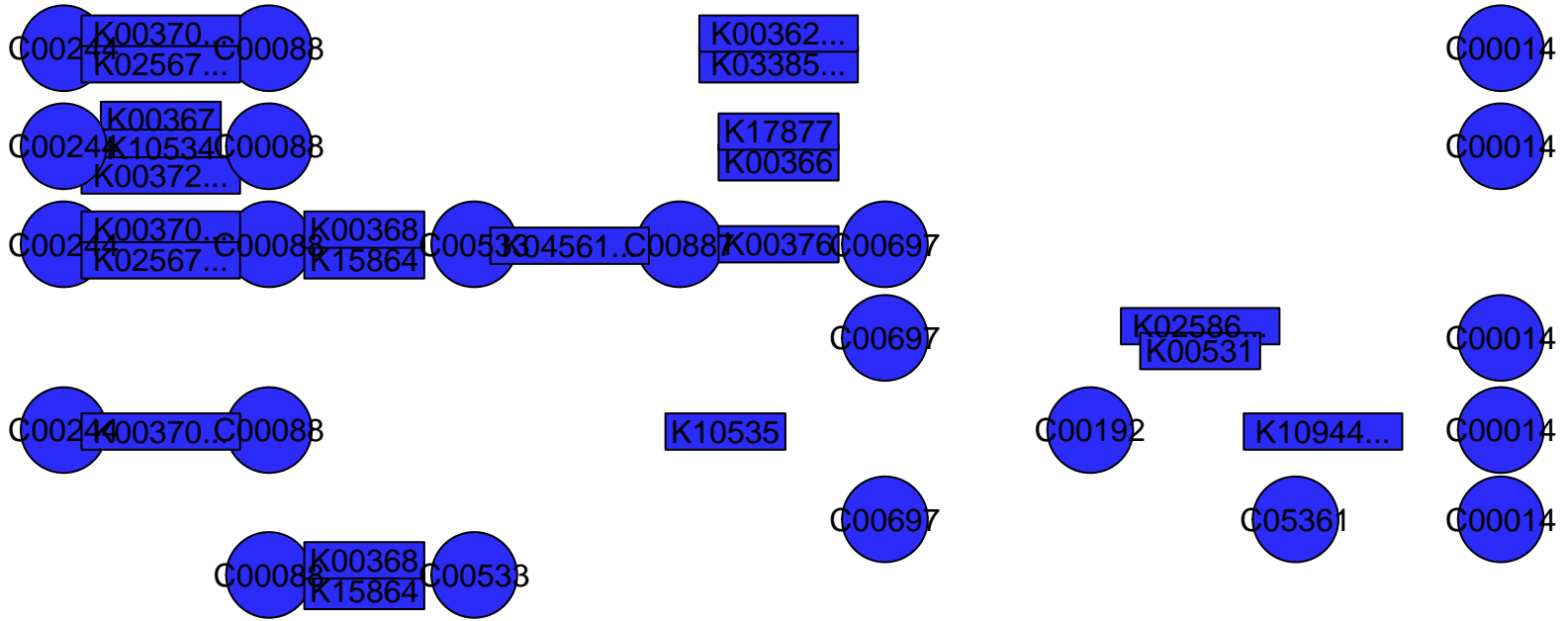
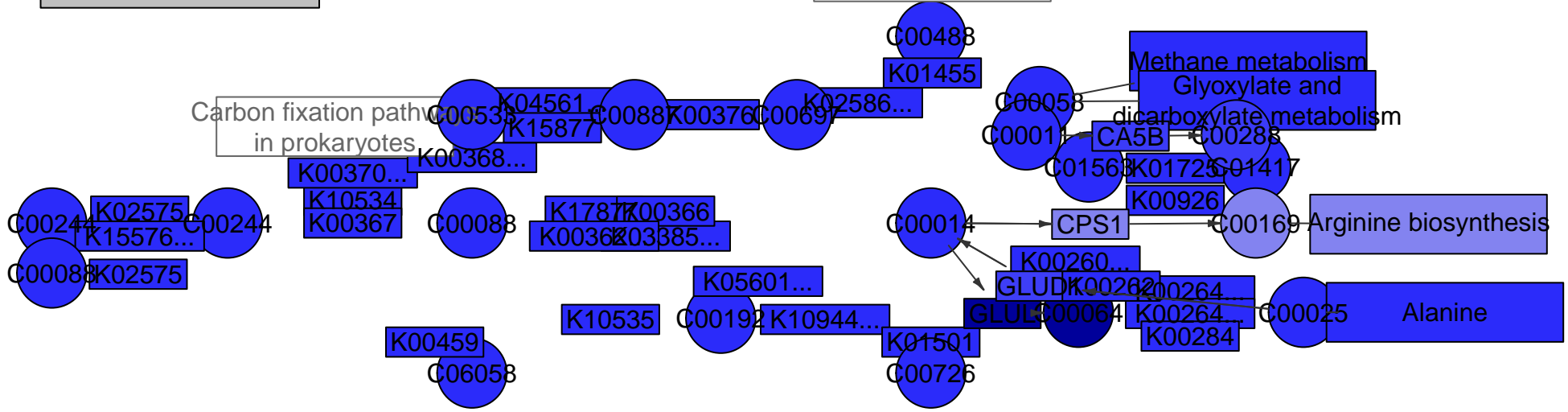
Nitrogen metabolism
MPI-144

Cyanoamino acid
metabolism



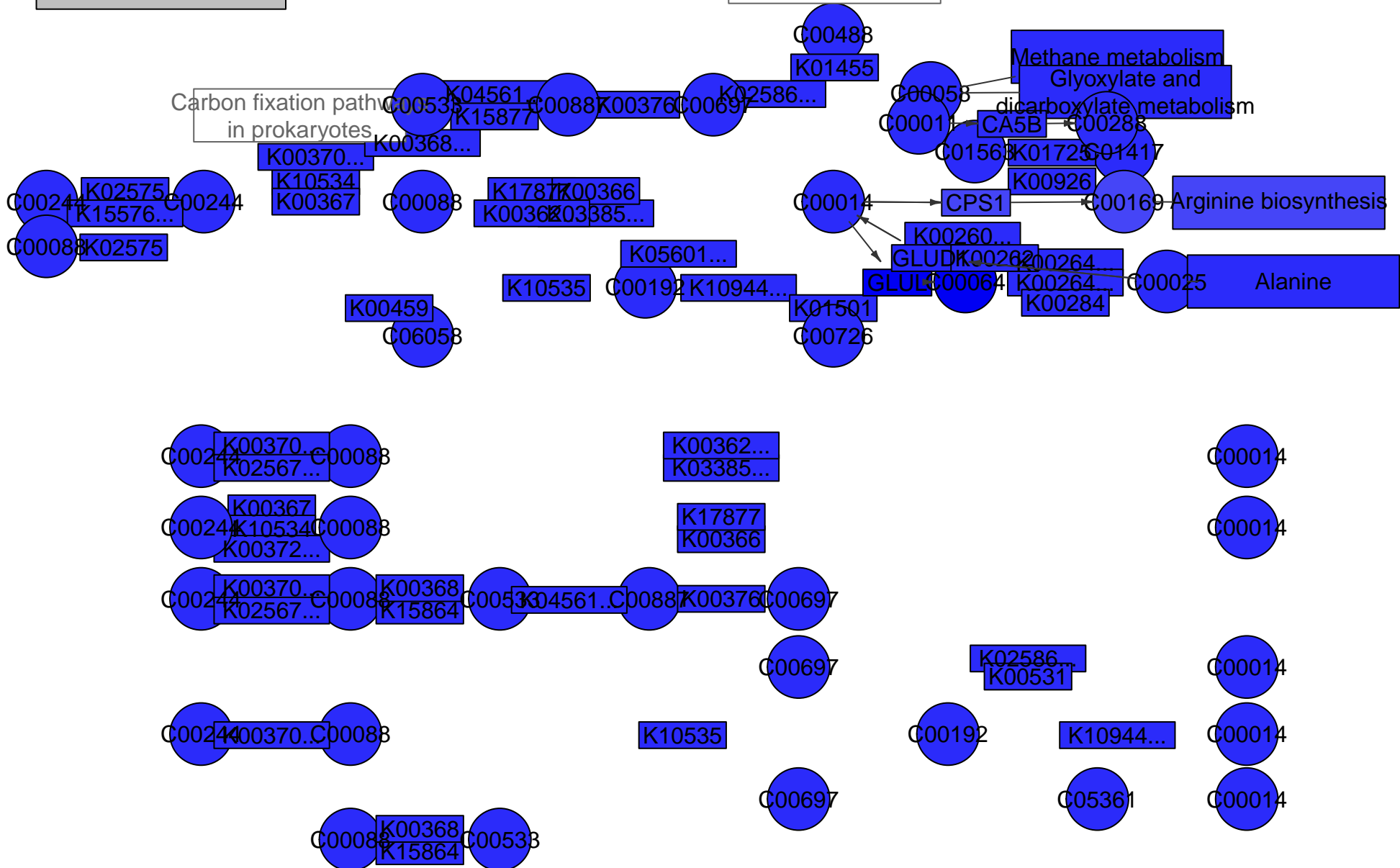
Nitrogen metabolism
MPI-147

Cyanoamino acid
metabolism



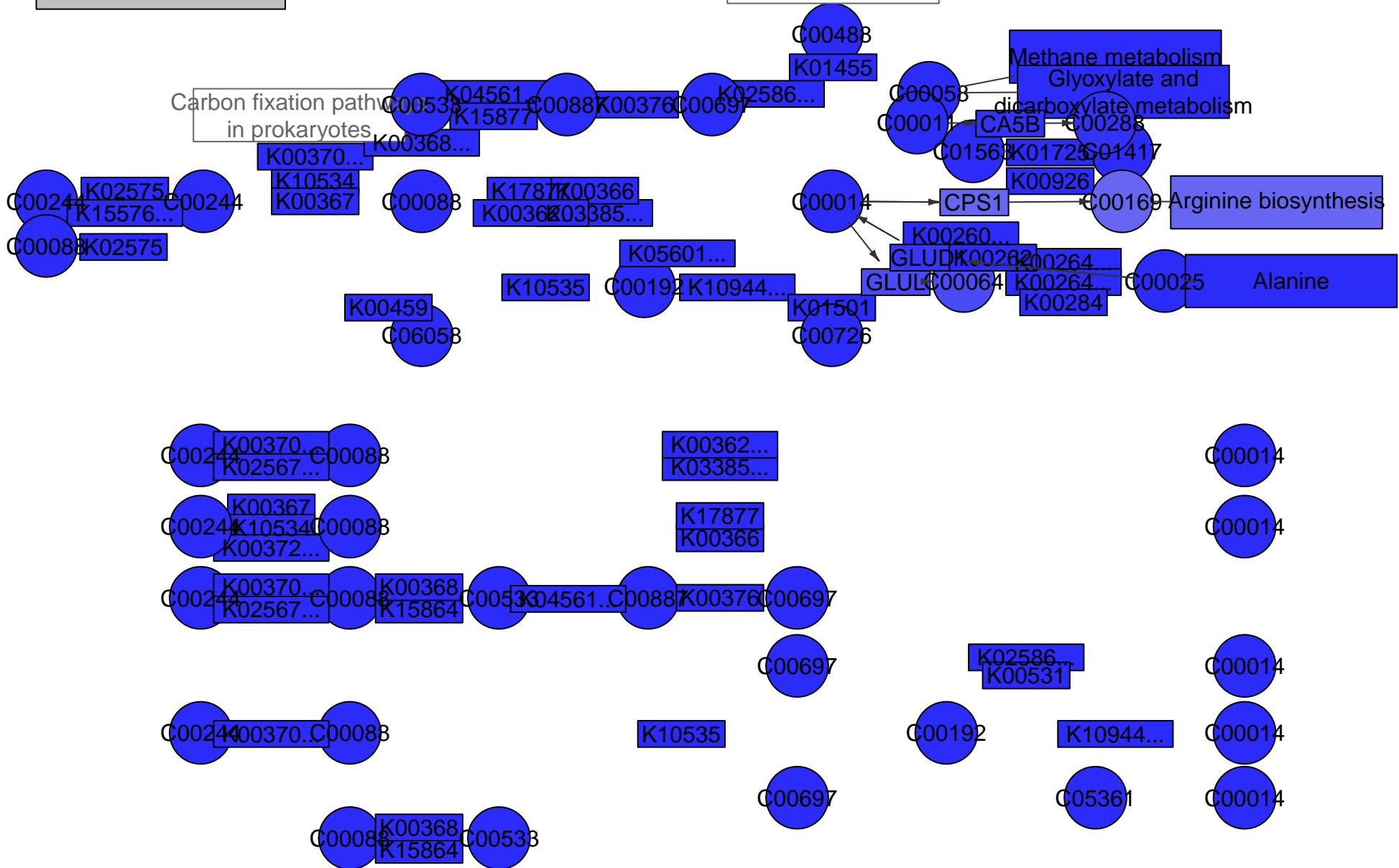
Nitrogen metabolism
MPI-171

Cyanoamino acid
metabolism



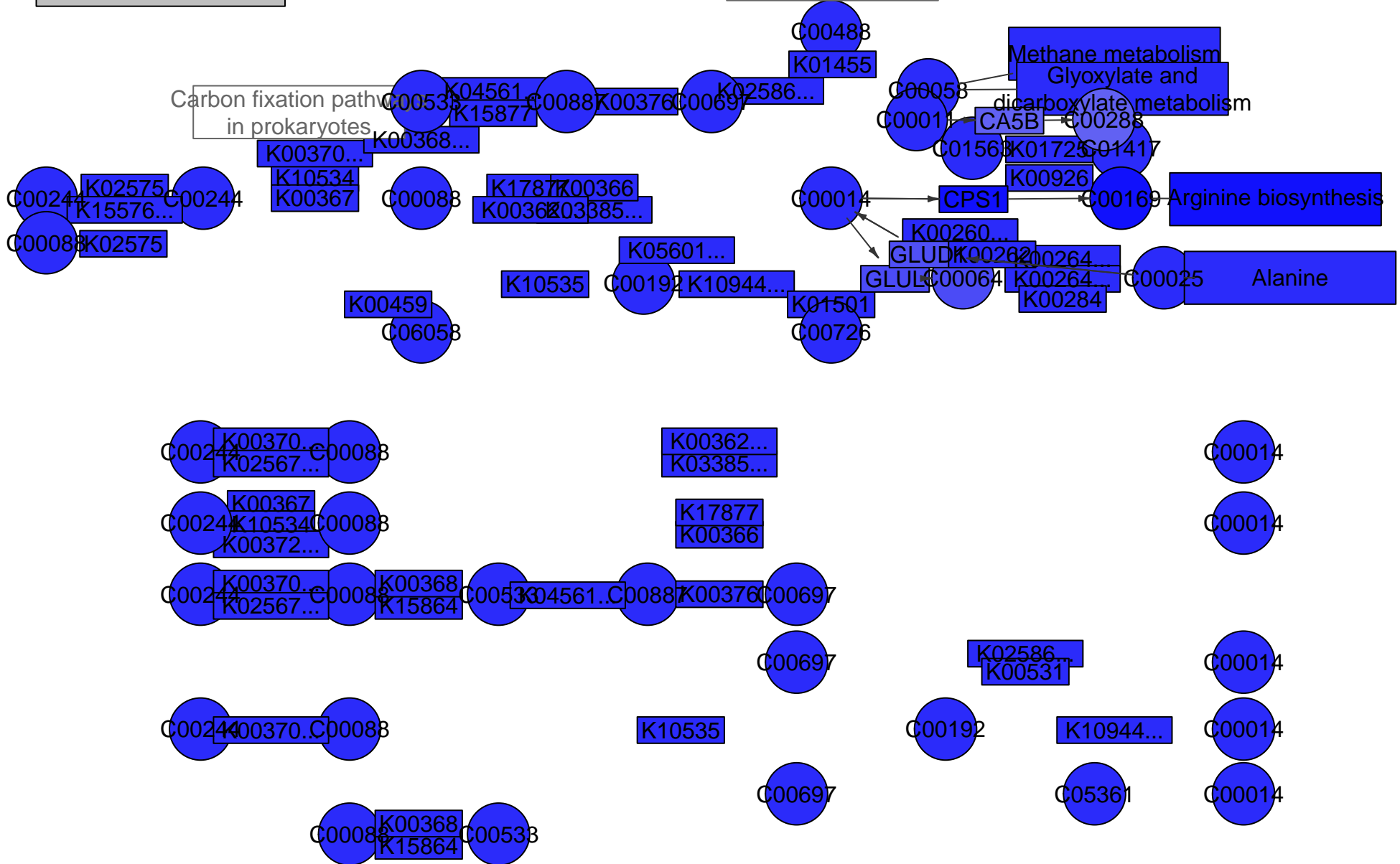
Nitrogen metabolism
MPI-172

Cyanoamino acid
metabolism



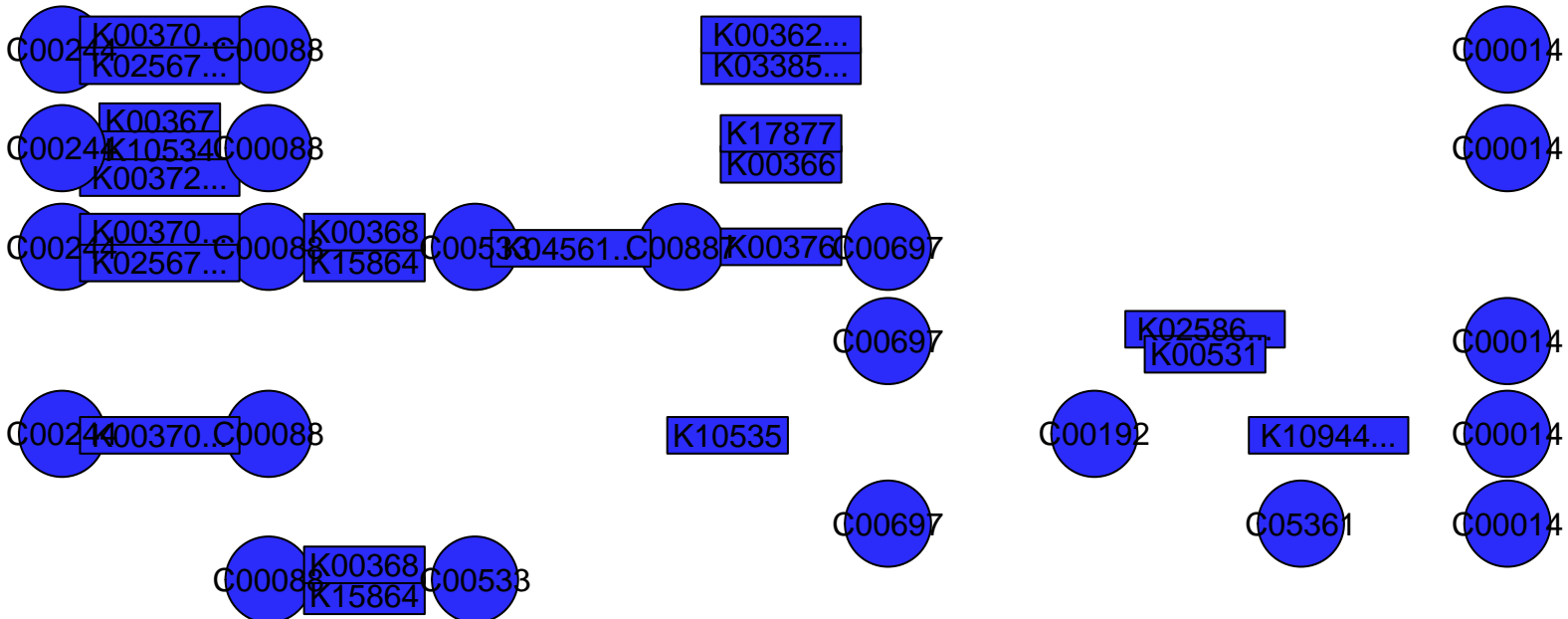
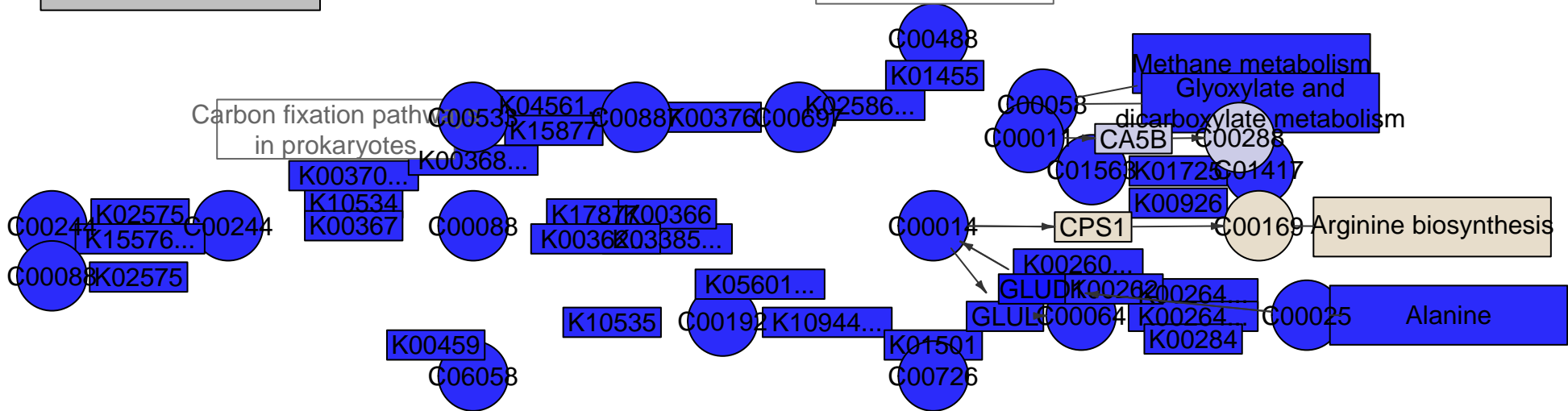
Nitrogen metabolism
MPI-011

Cyanoamino acid
metabolism



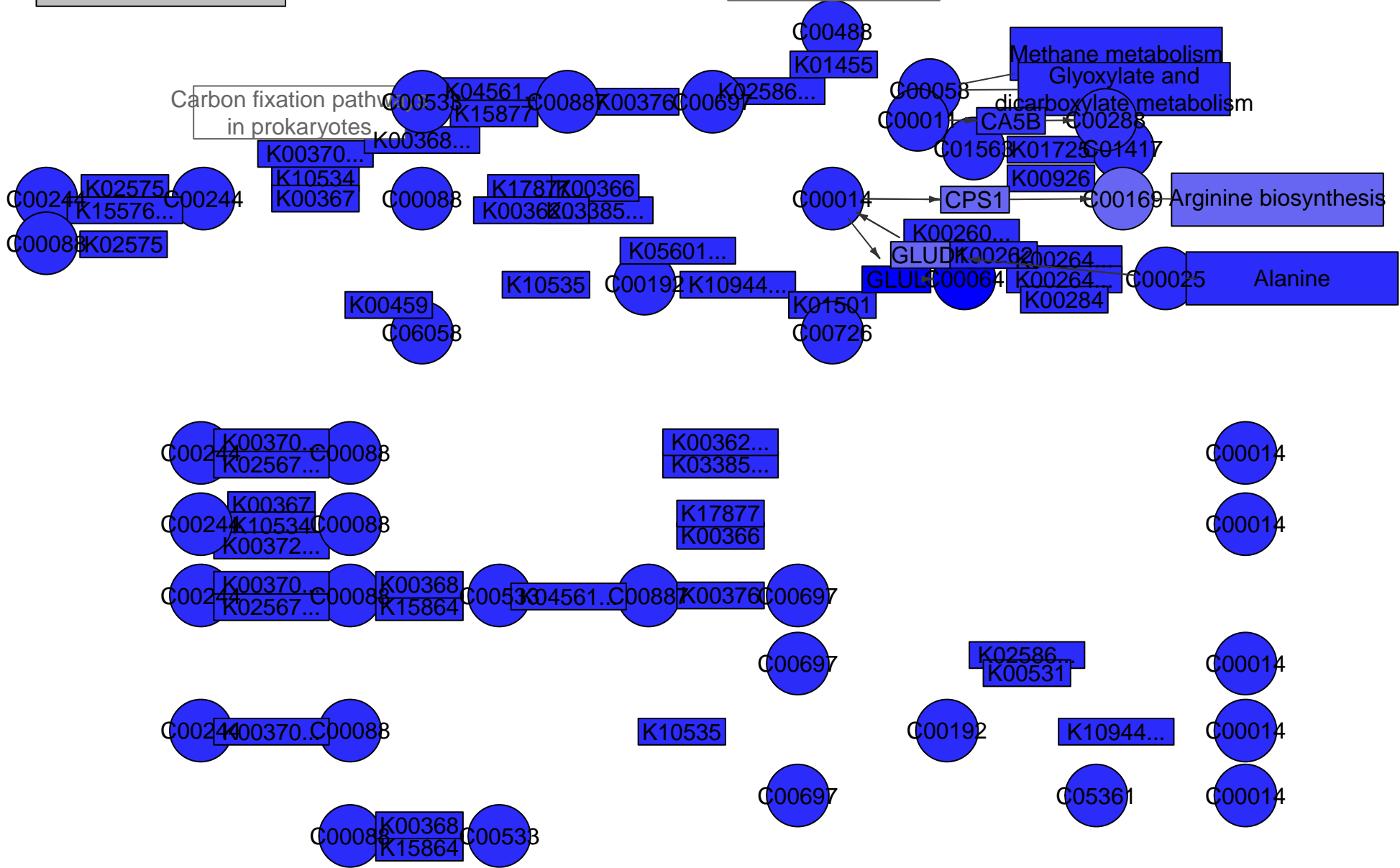
Nitrogen metabolism
MPI-024

Cyanoamino acid
metabolism



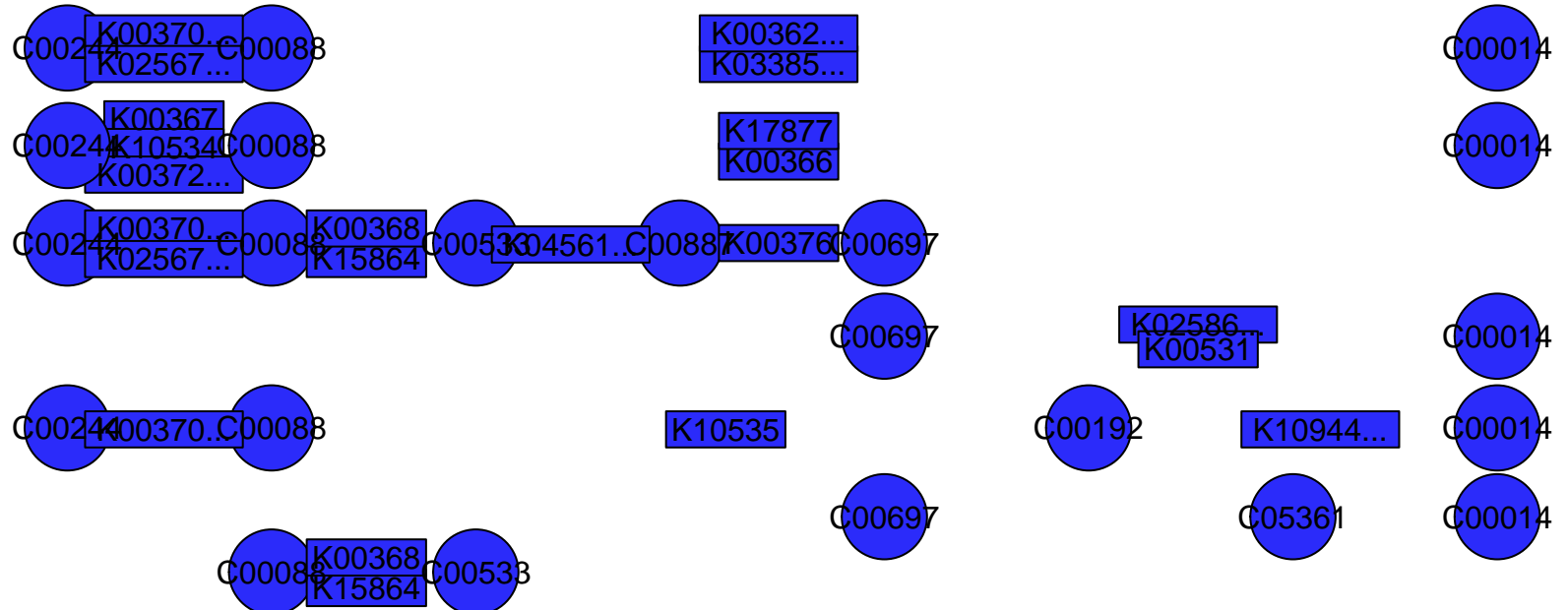
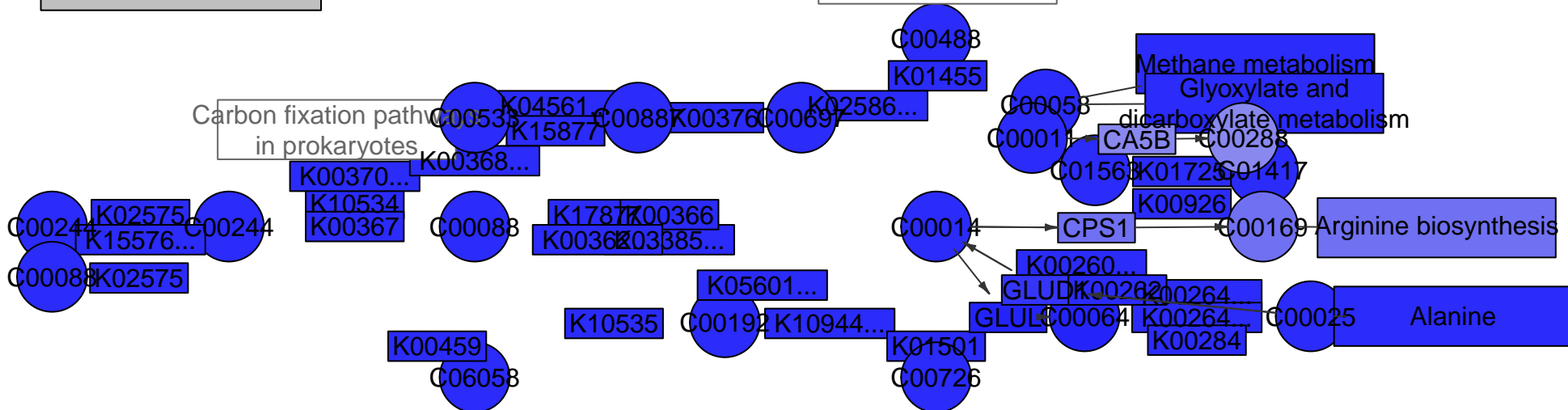
Nitrogen metabolism
MPI-026

Cyanoamino acid
metabolism



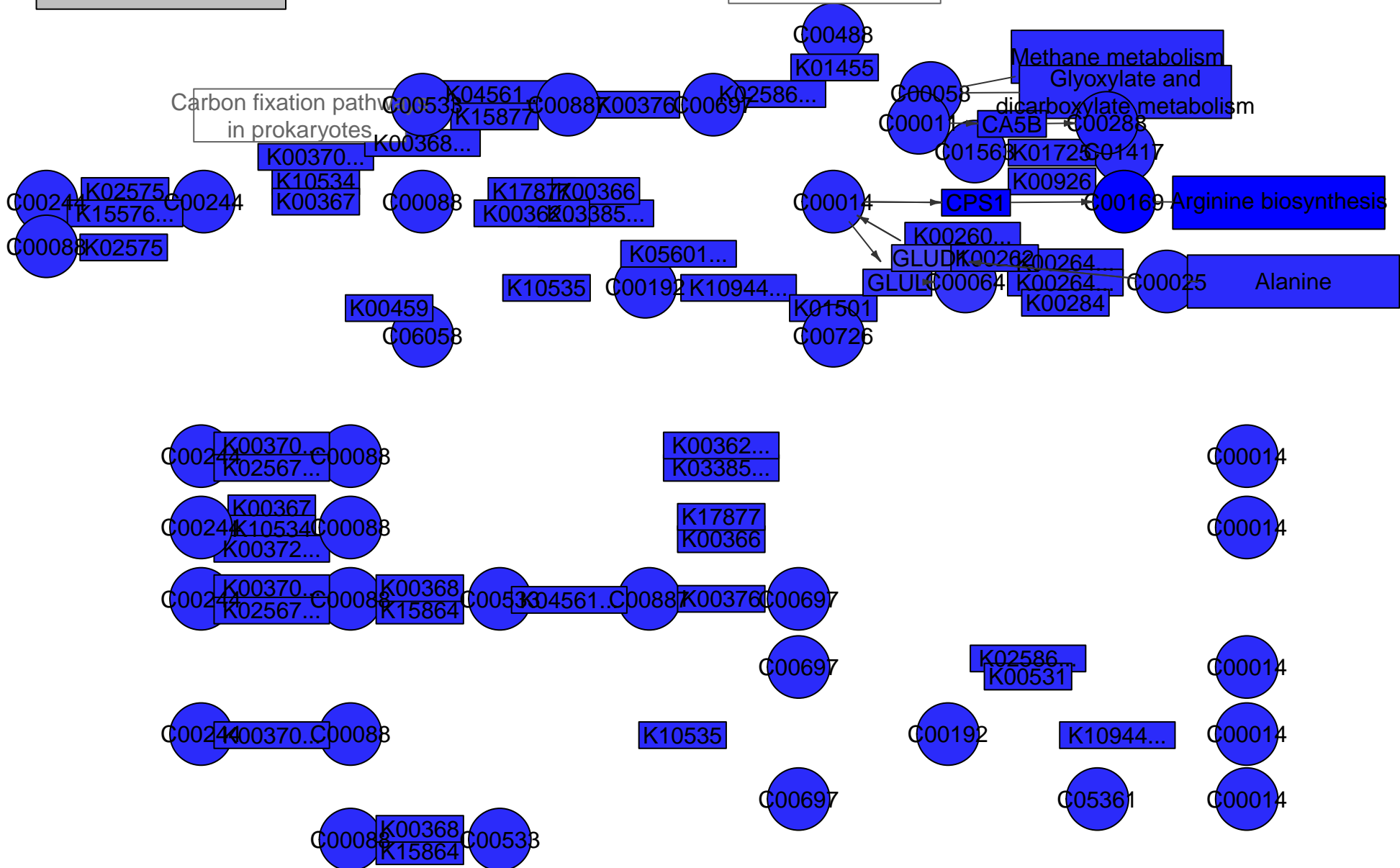
Nitrogen metabolism
MPI-036

Cyanoamino acid
metabolism



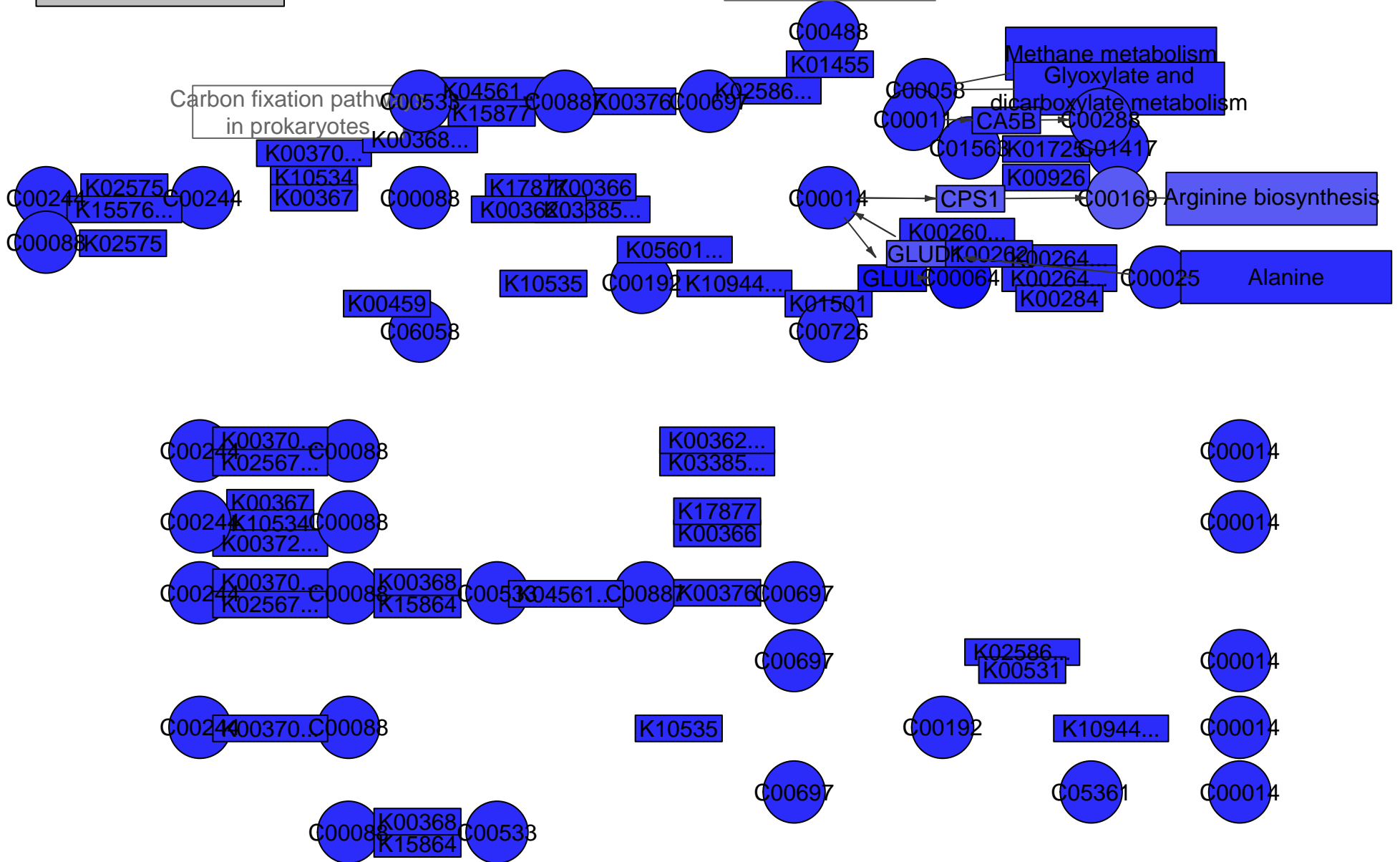
Nitrogen metabolism
MPI-037

Cyanoamino acid
metabolism



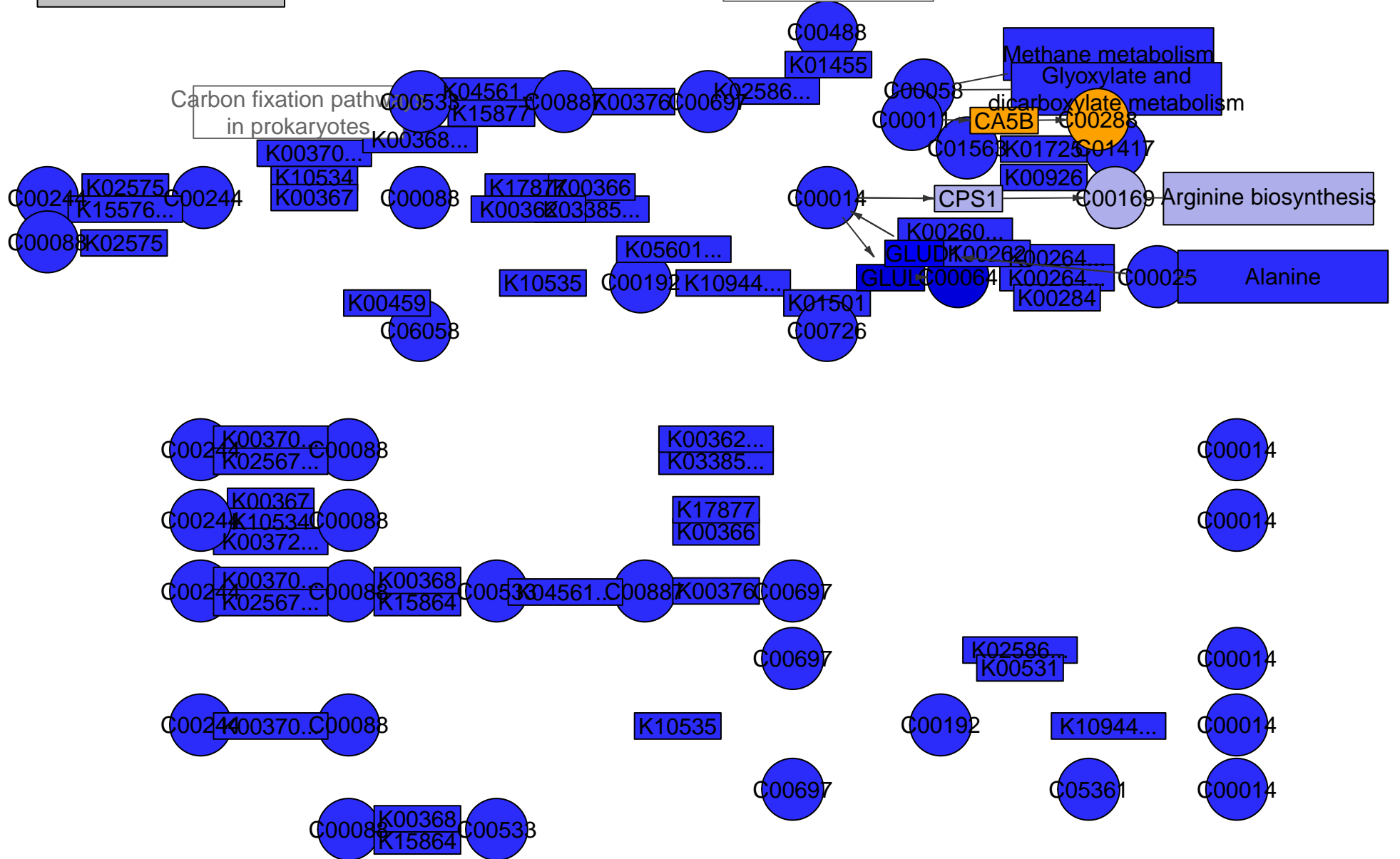
Nitrogen metabolism
MPI-038

Cyanoamino acid
metabolism



Nitrogen metabolism
MPI-041

Cyanoamino acid
metabolism



Nitrogen metabolism
MPI-046

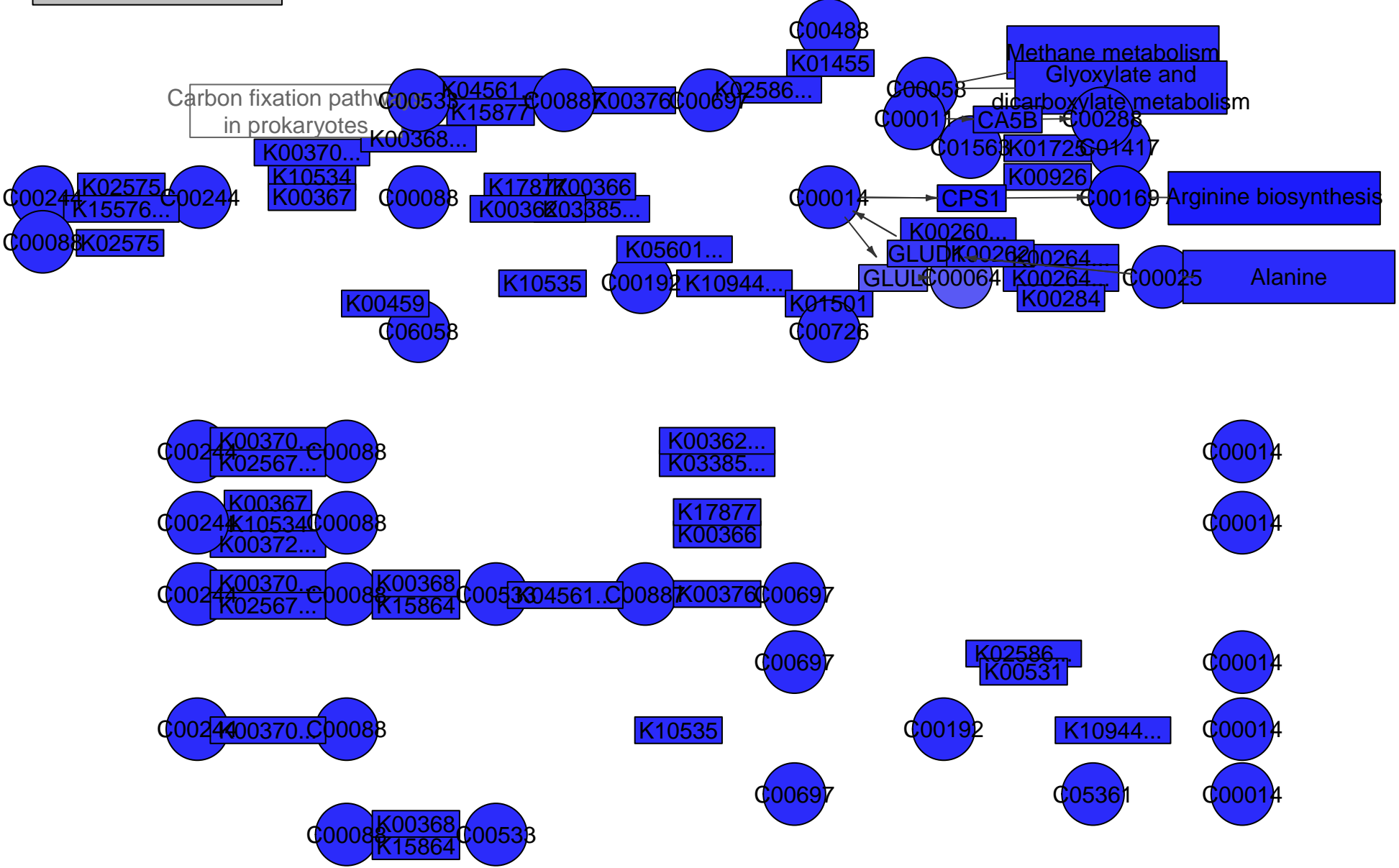
Cyanoamino acid
metabolism

Carbon fixation pathway
in prokaryotes

Methane metabolism
Glyoxylate and
dicarboxylate metabolism

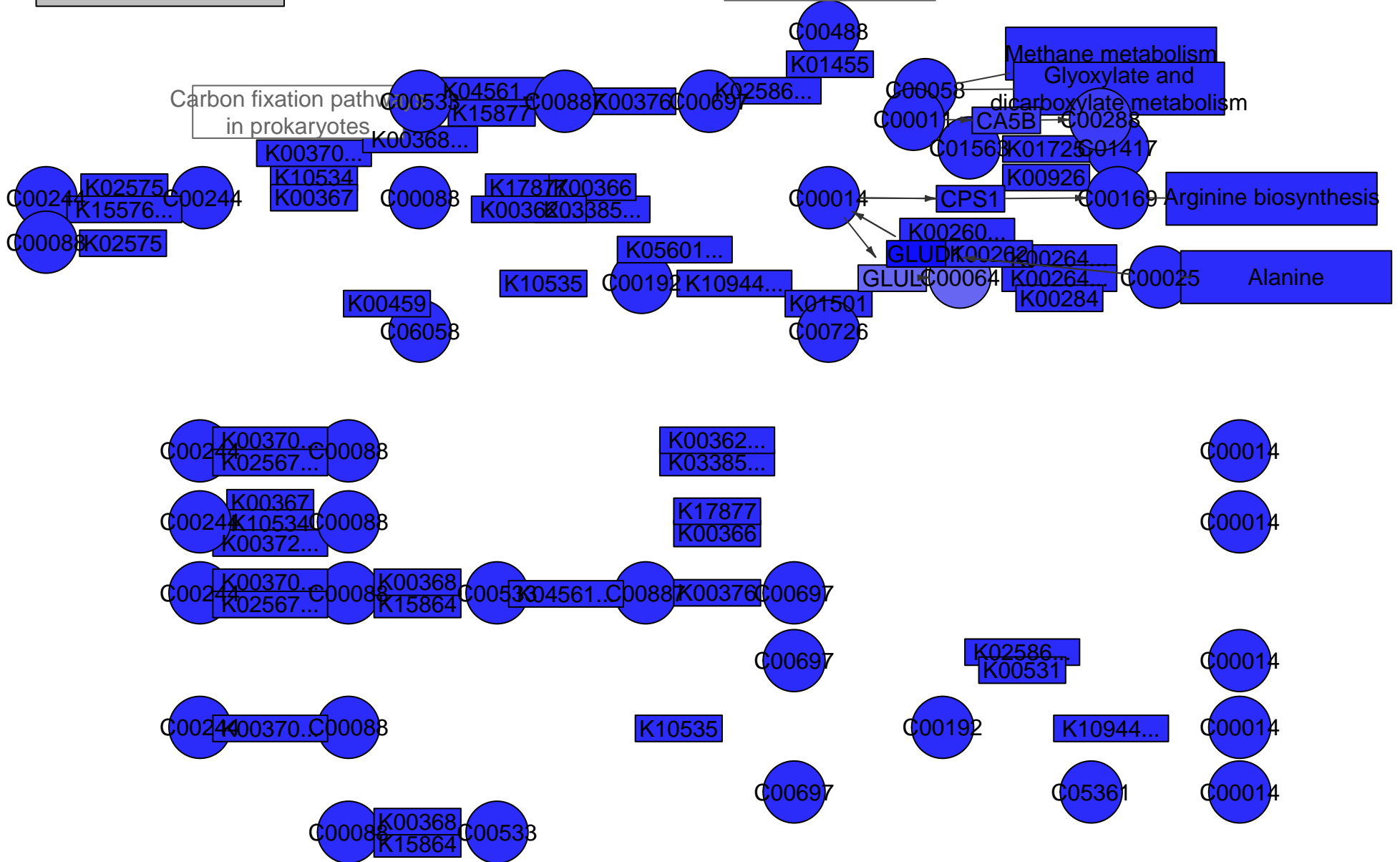
Arginine biosynthesis

Alanine



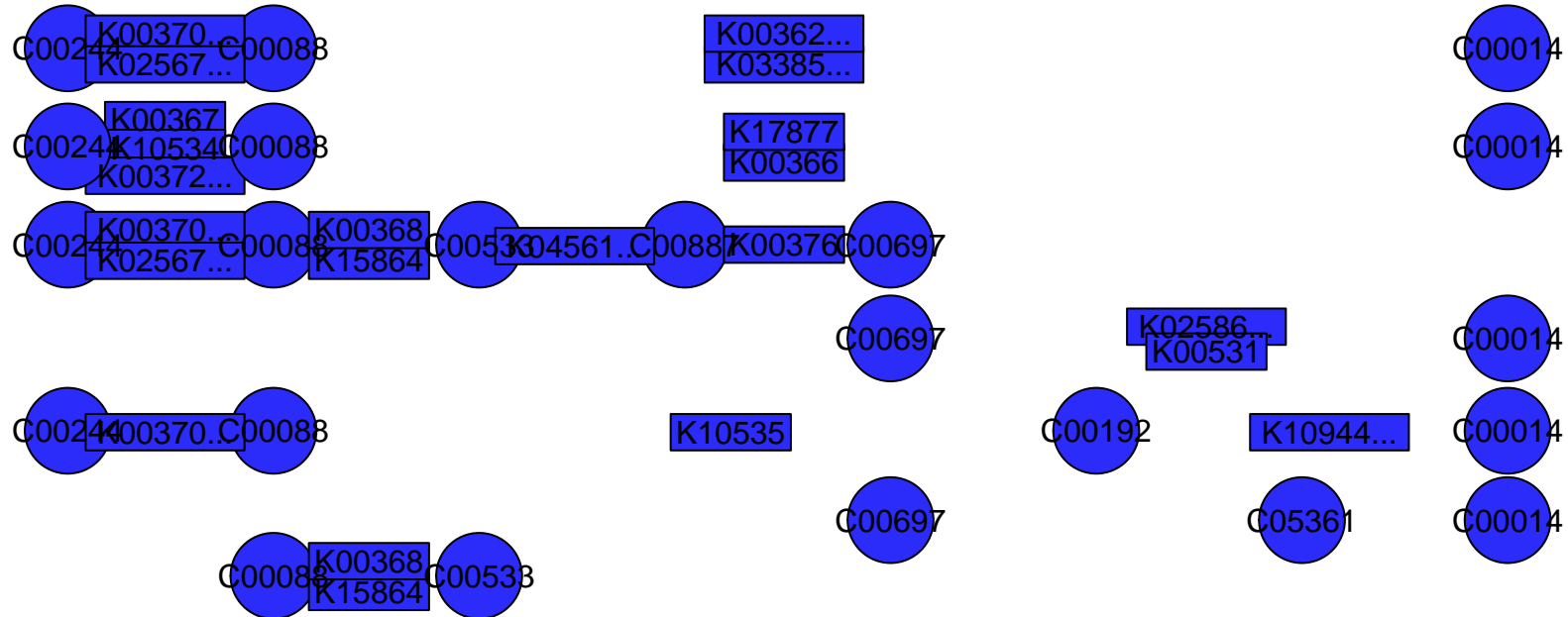
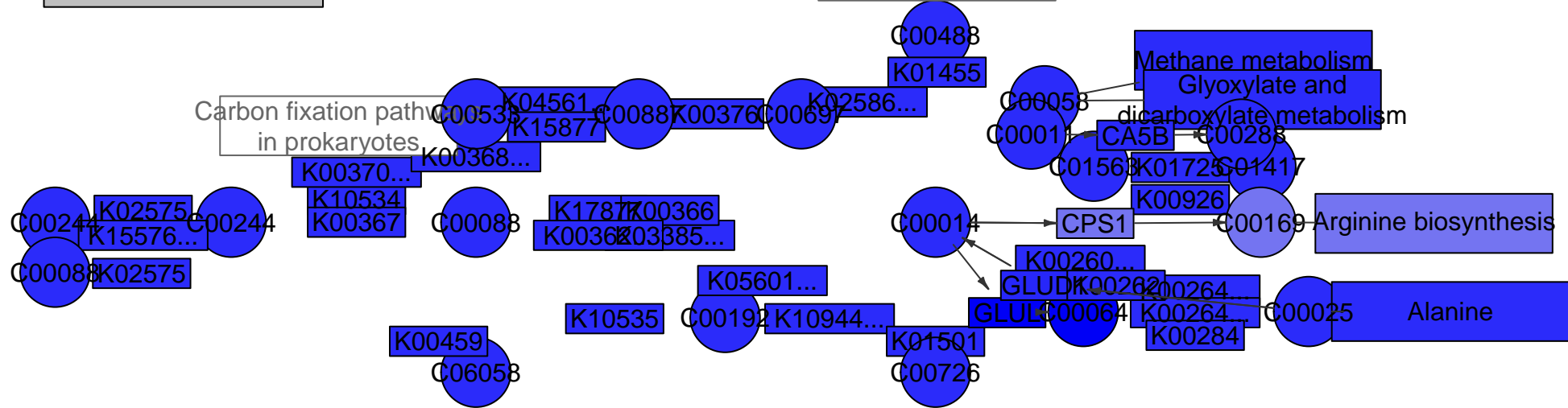
Nitrogen metabolism
MPI-050

Cyanoamino acid
metabolism



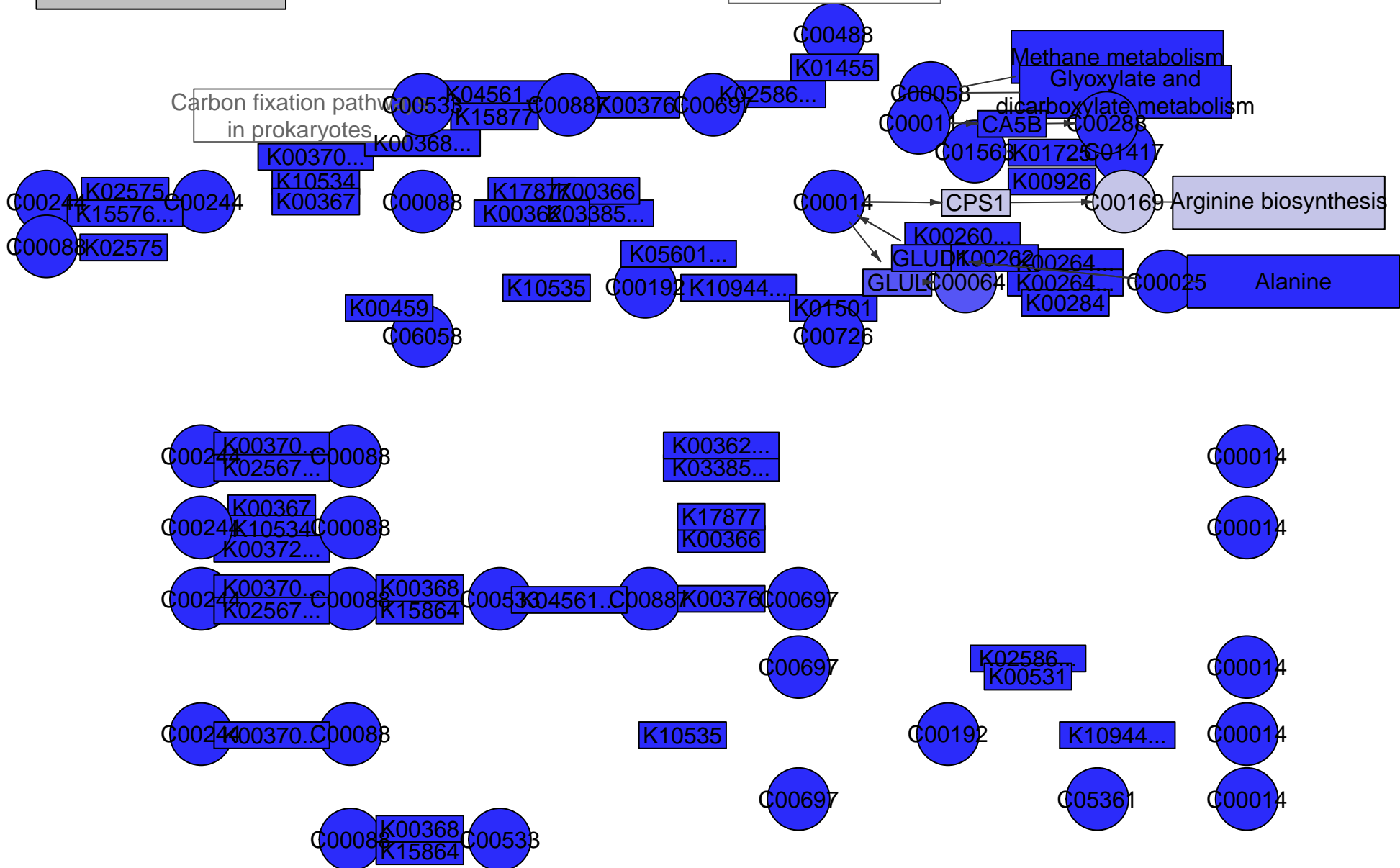
Nitrogen metabolism
MPI-051

Cyanoamino acid
metabolism



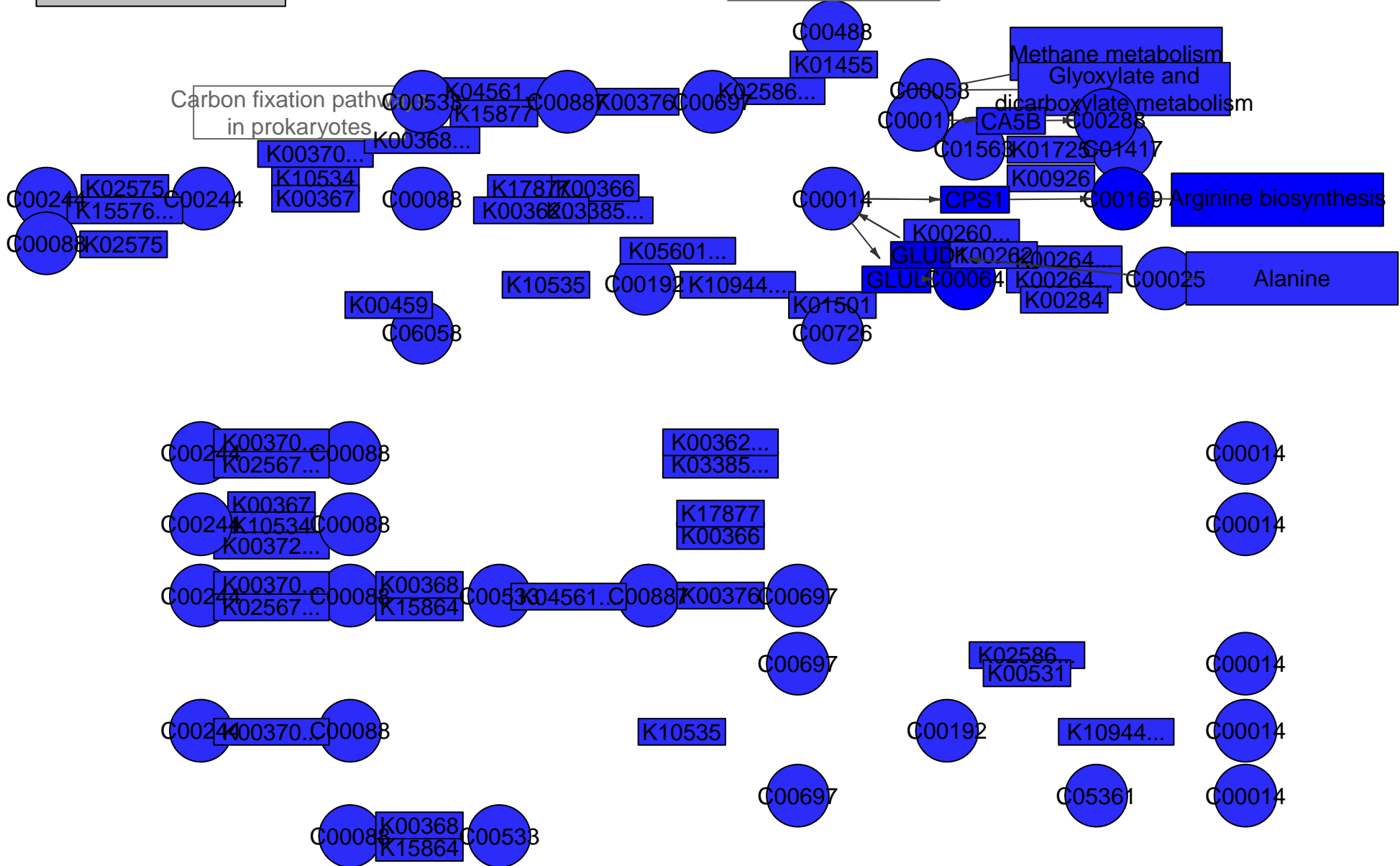
Nitrogen metabolism
MPI-054

Cyanoamino acid
metabolism



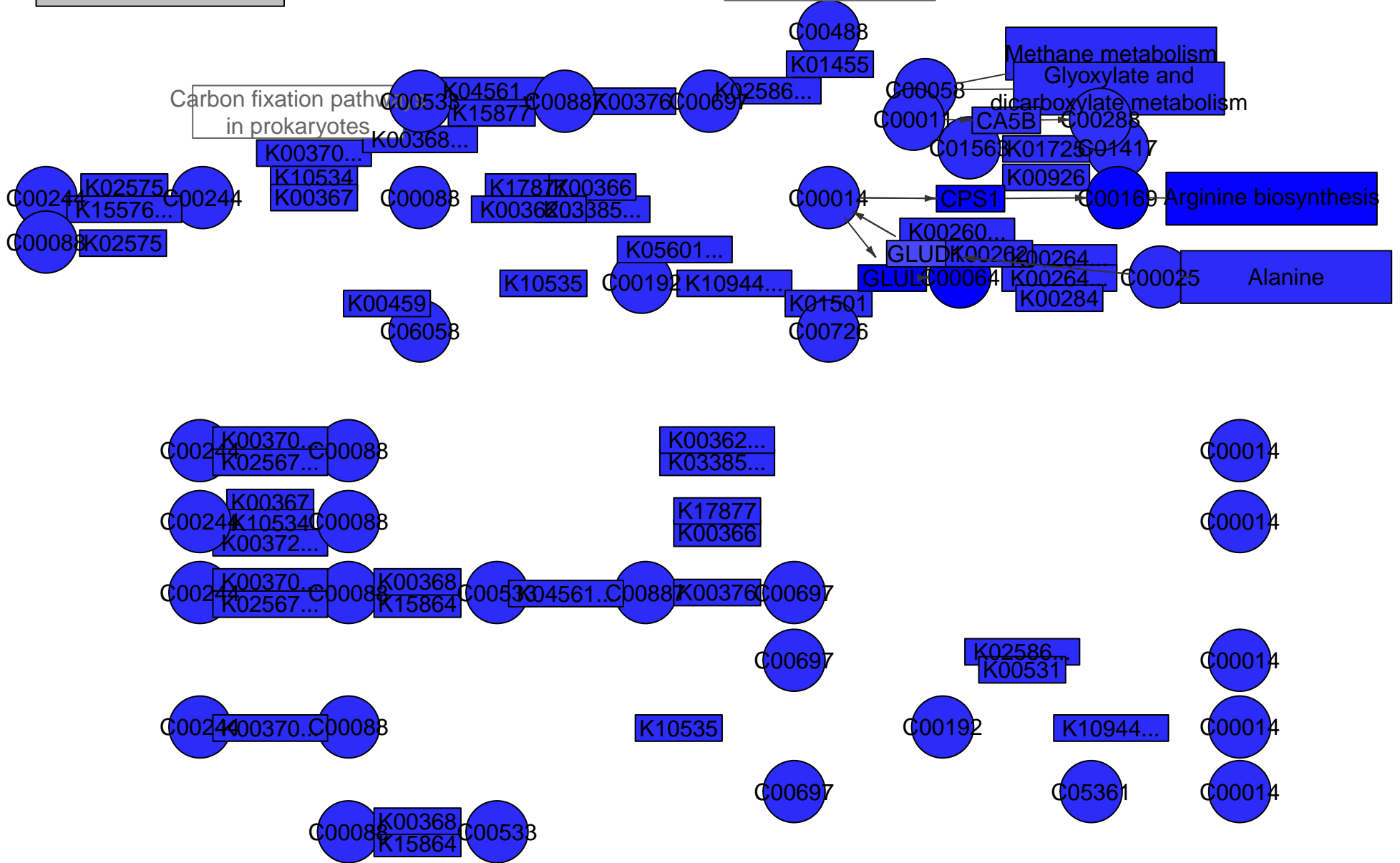
Nitrogen metabolism
MPI-059

Cyanoamino acid
metabolism



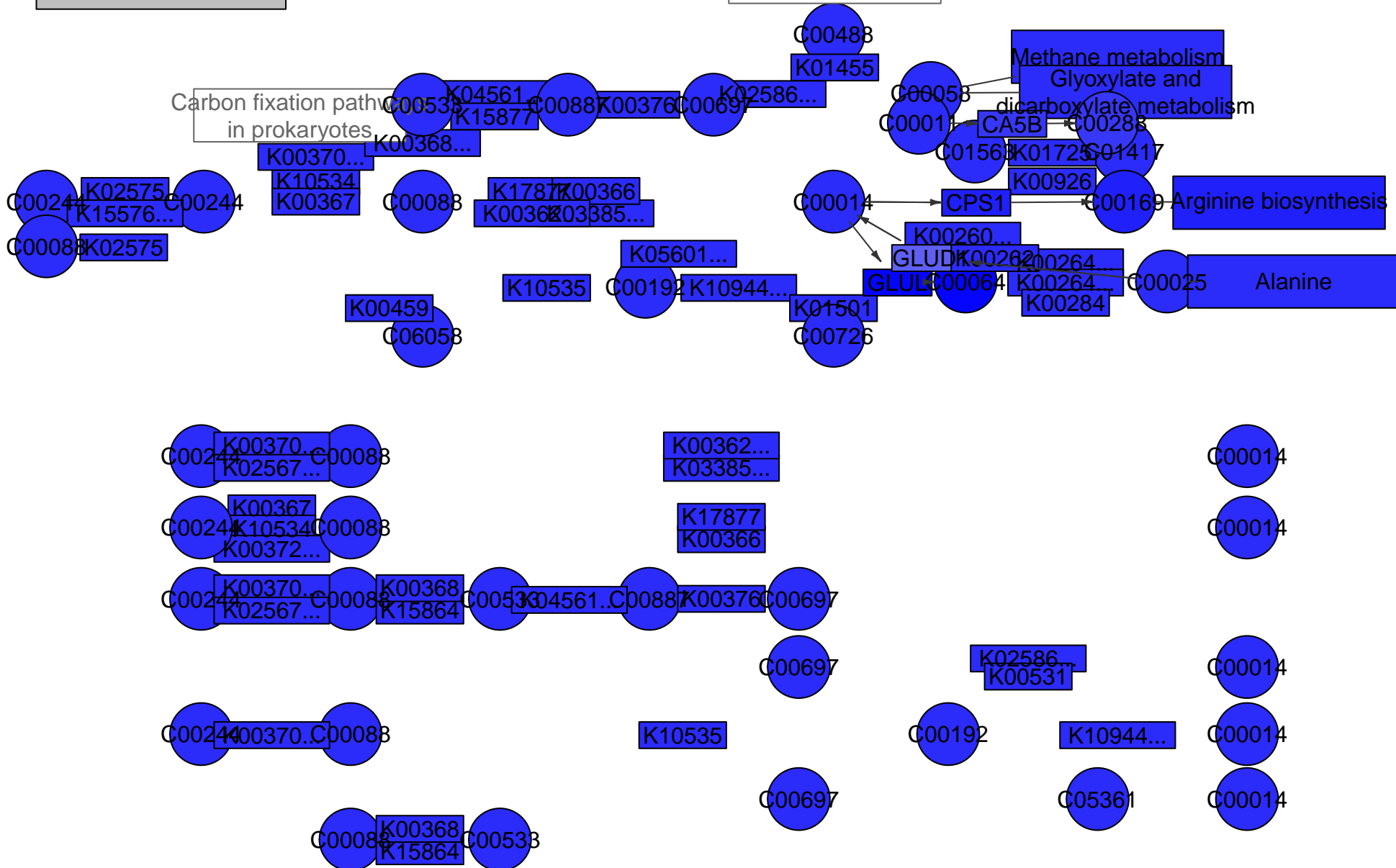
Nitrogen metabolism
MPI-060

Cyanoamino acid
metabolism



Nitrogen metabolism
MPI-061

Cyanoamino acid
metabolism



Nitrogen metabolism
MPI-064

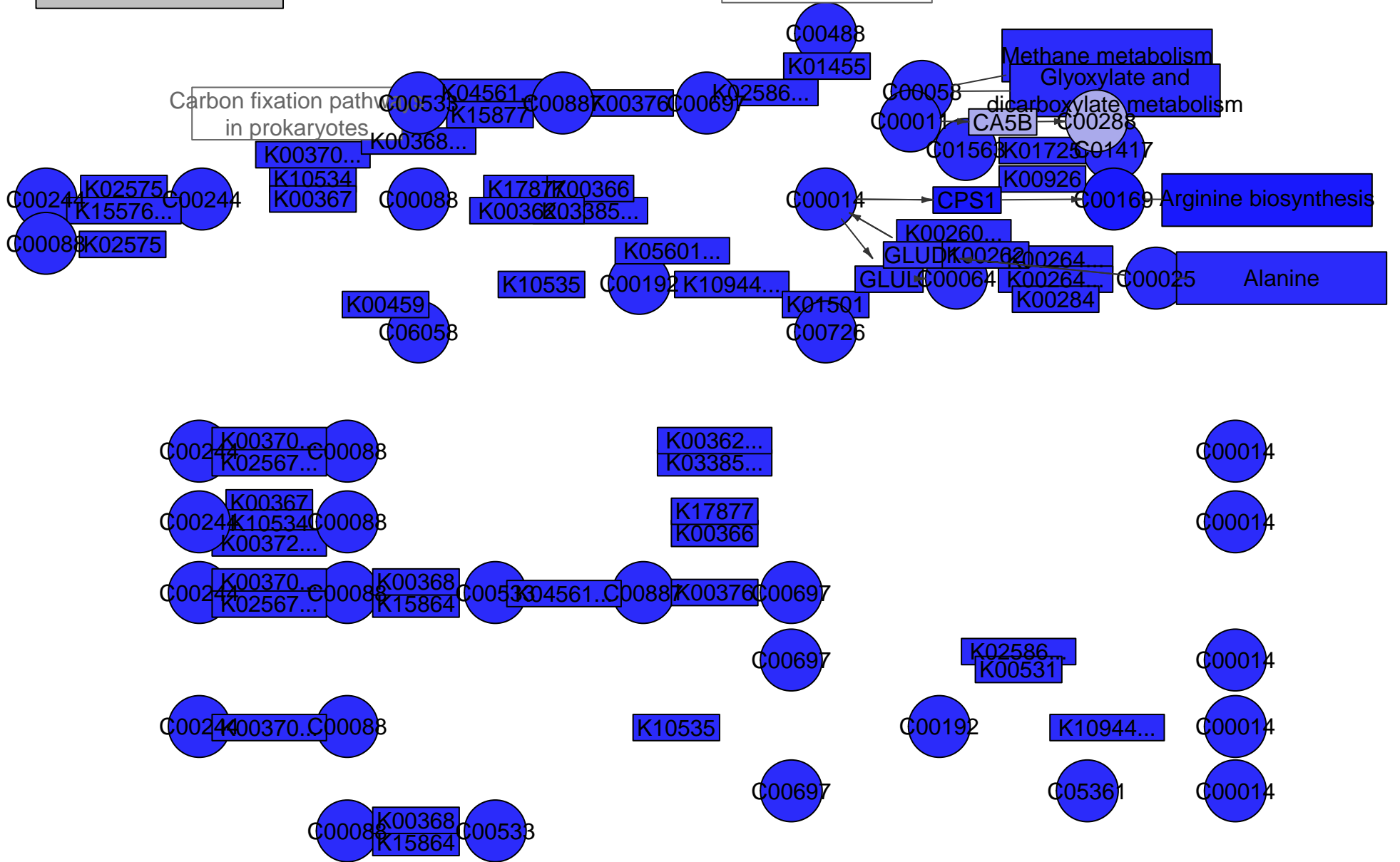
Cyanoamino acid
metabolism

Carbon fixation pathway
in prokaryotes

Methane metabolism
Glyoxylate and
dicarboxylate metabolism

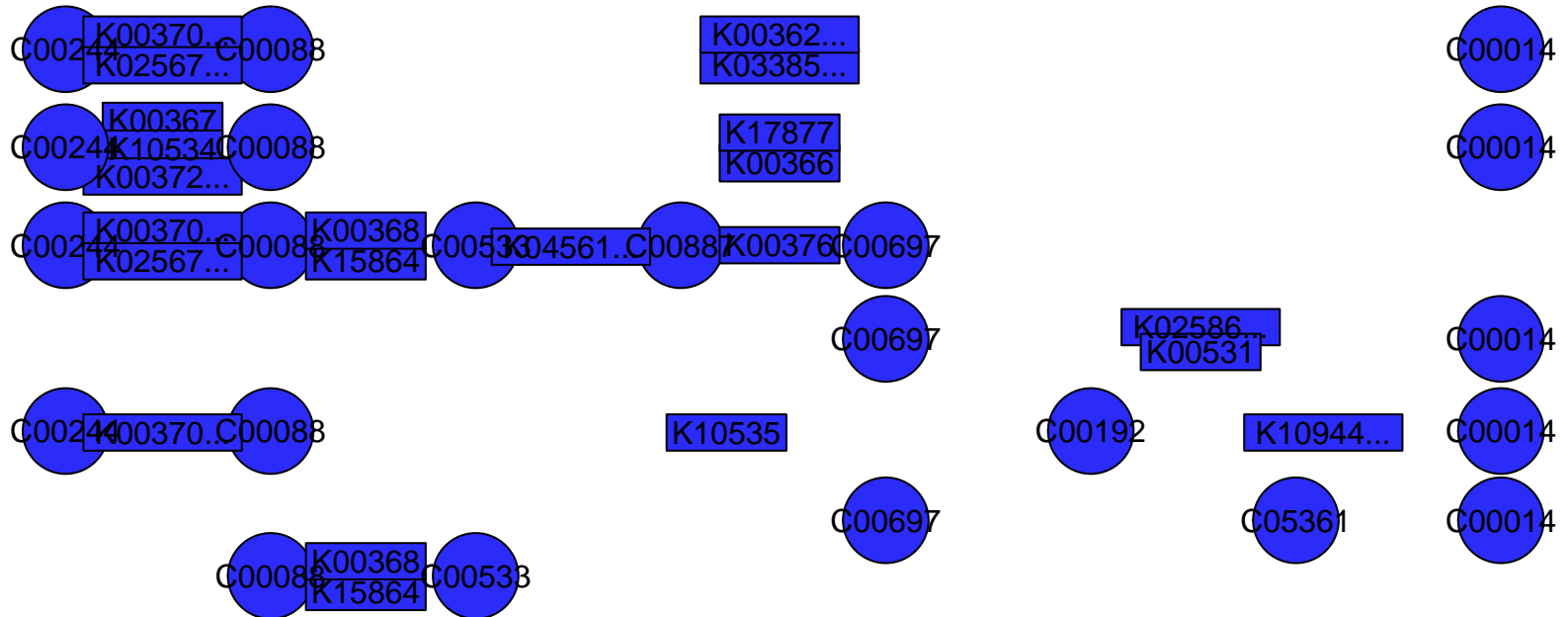
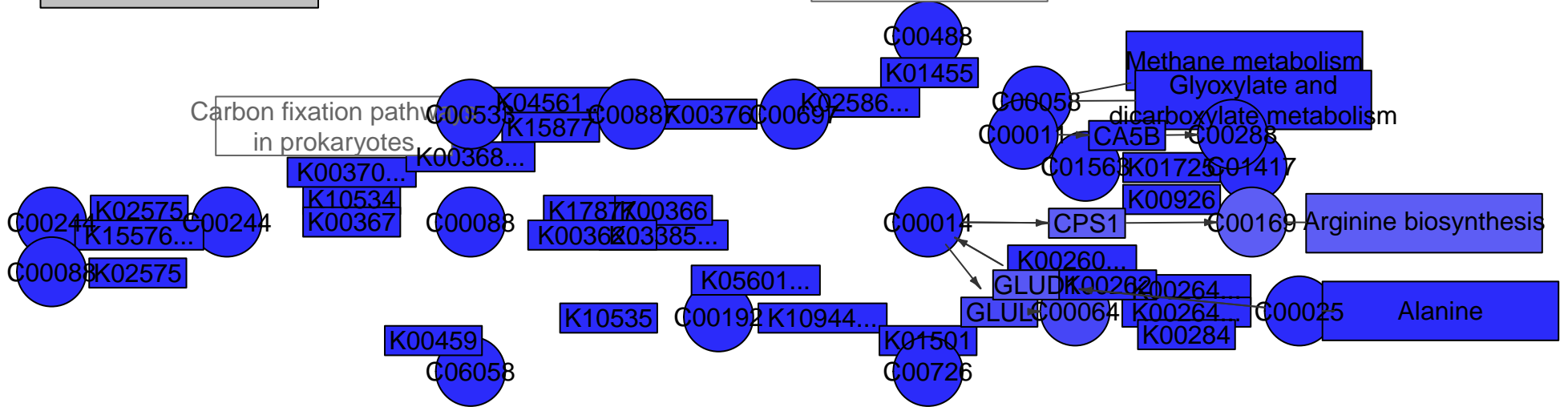
Arginine biosynthesis

Alanine



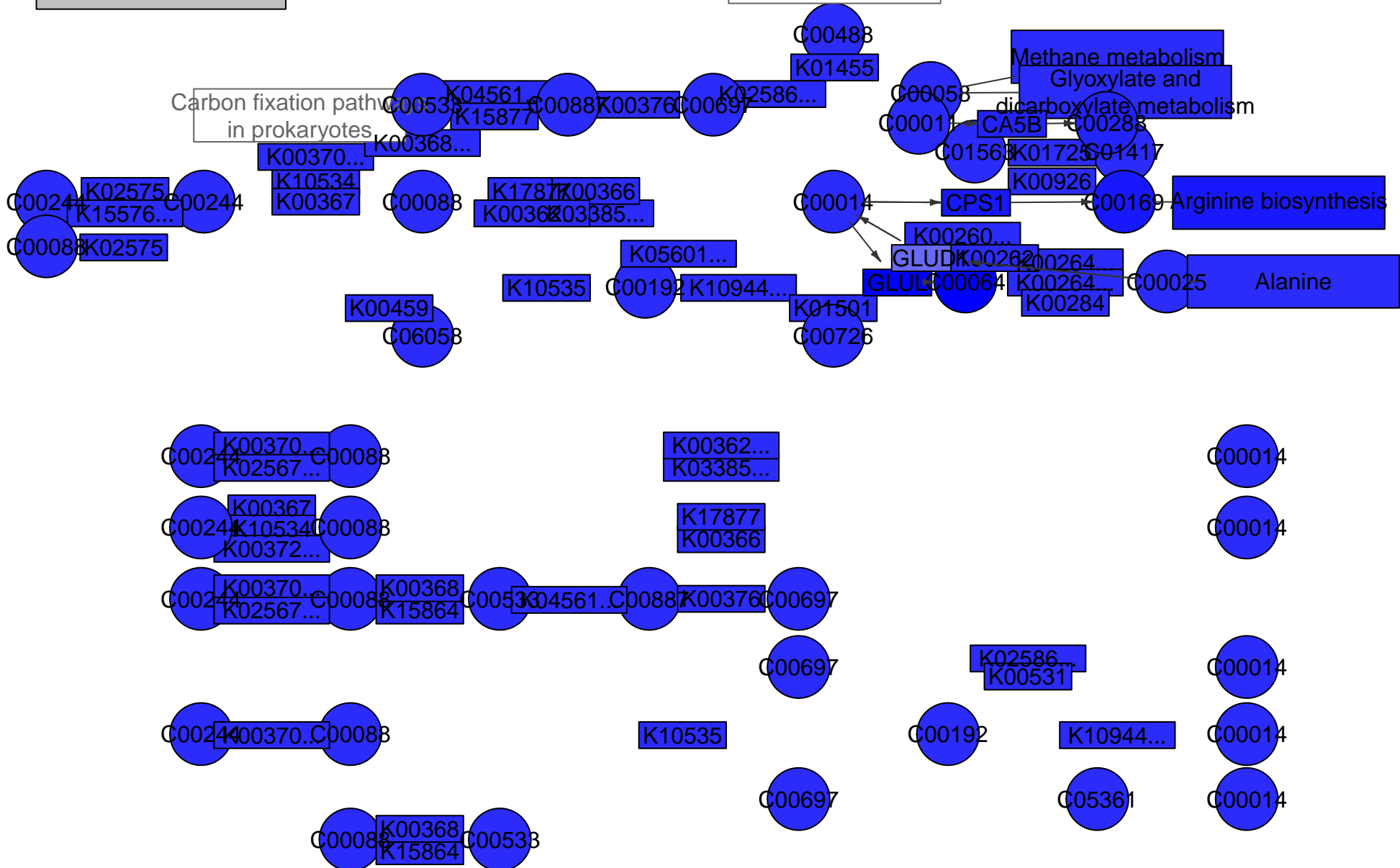
Nitrogen metabolism
MPI-070

Cyanoamino acid
metabolism



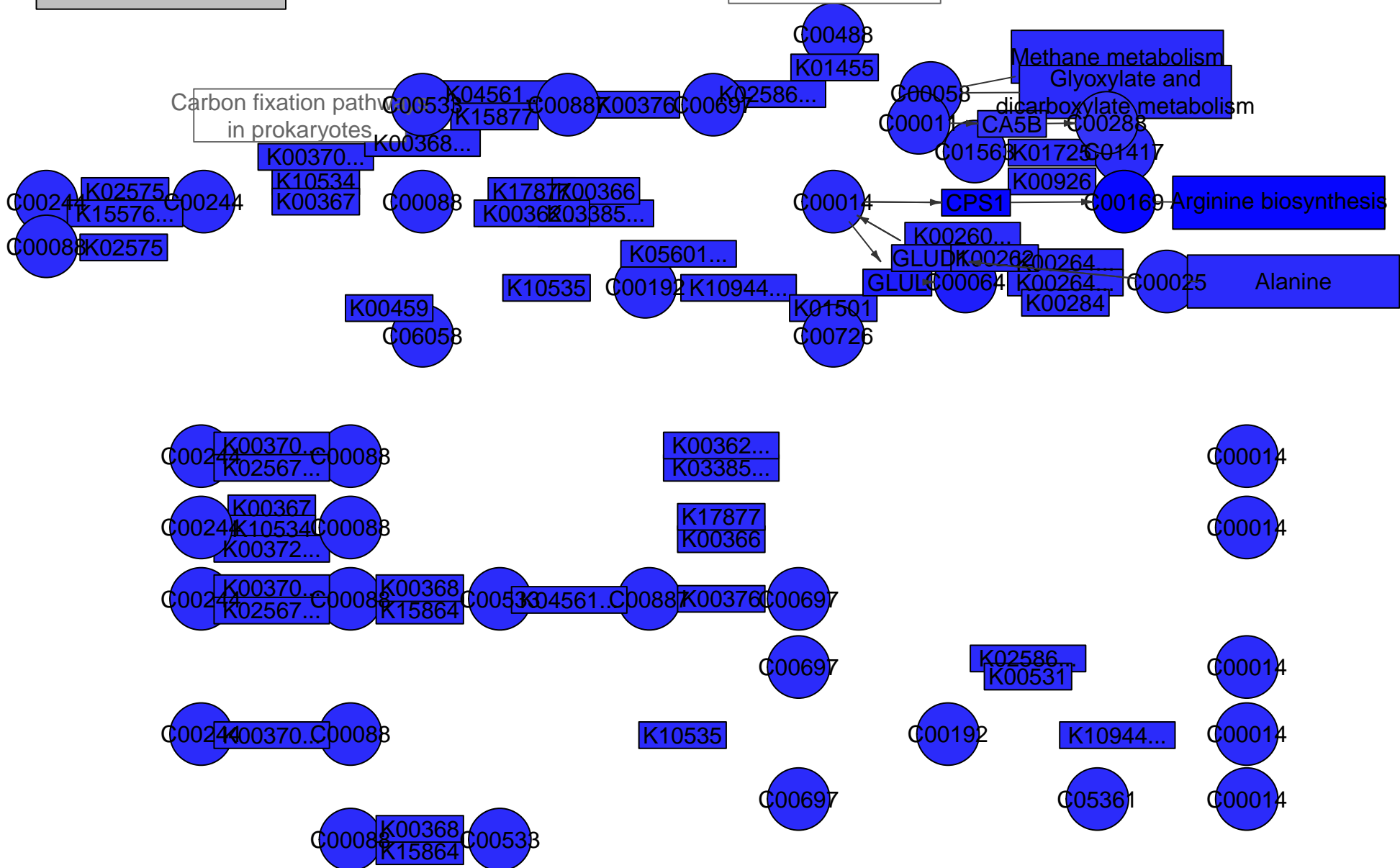
Nitrogen metabolism
MPI-072

Cyanoamino acid
metabolism



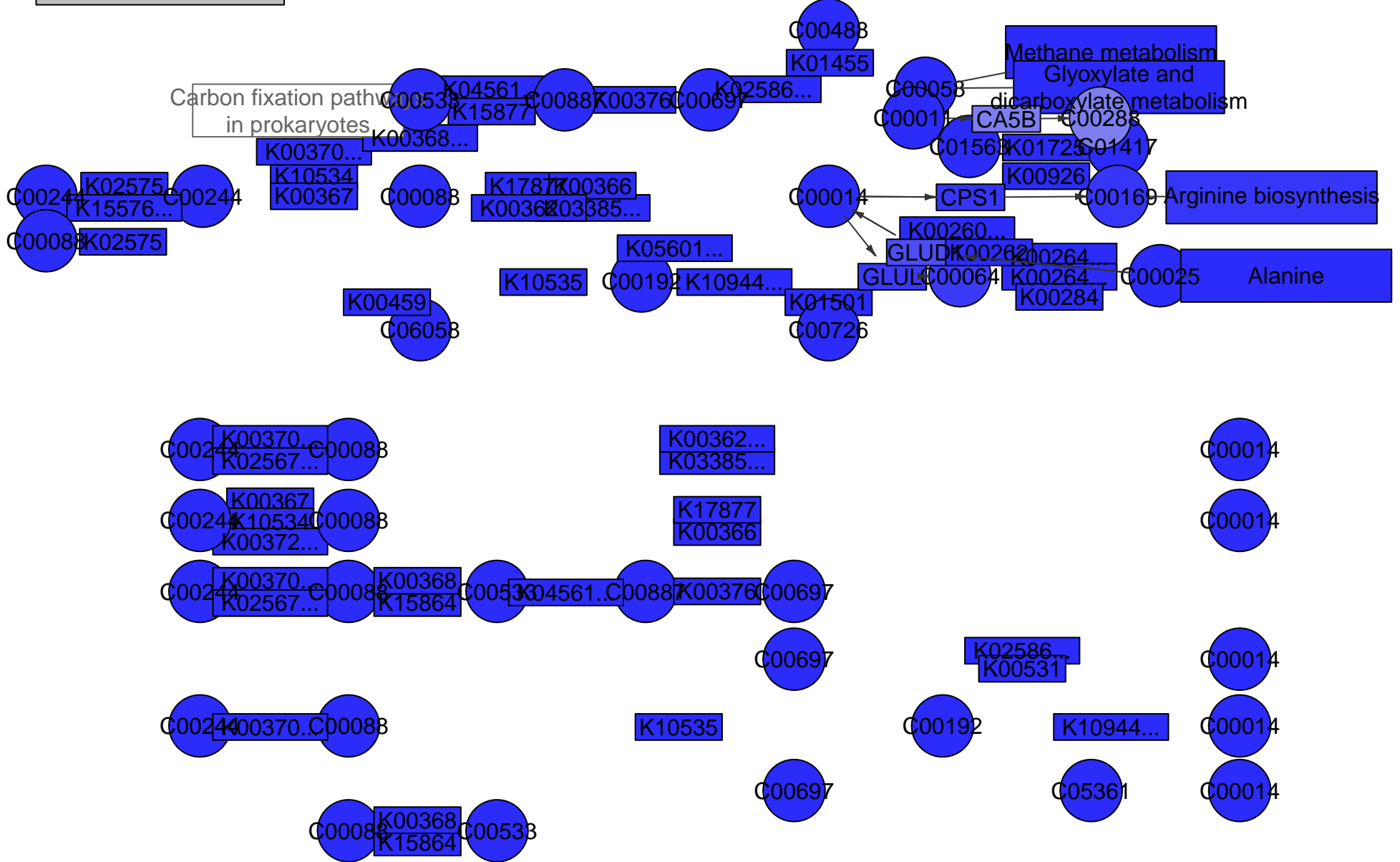
Nitrogen metabolism
MPI-093

Cyanoamino acid
metabolism



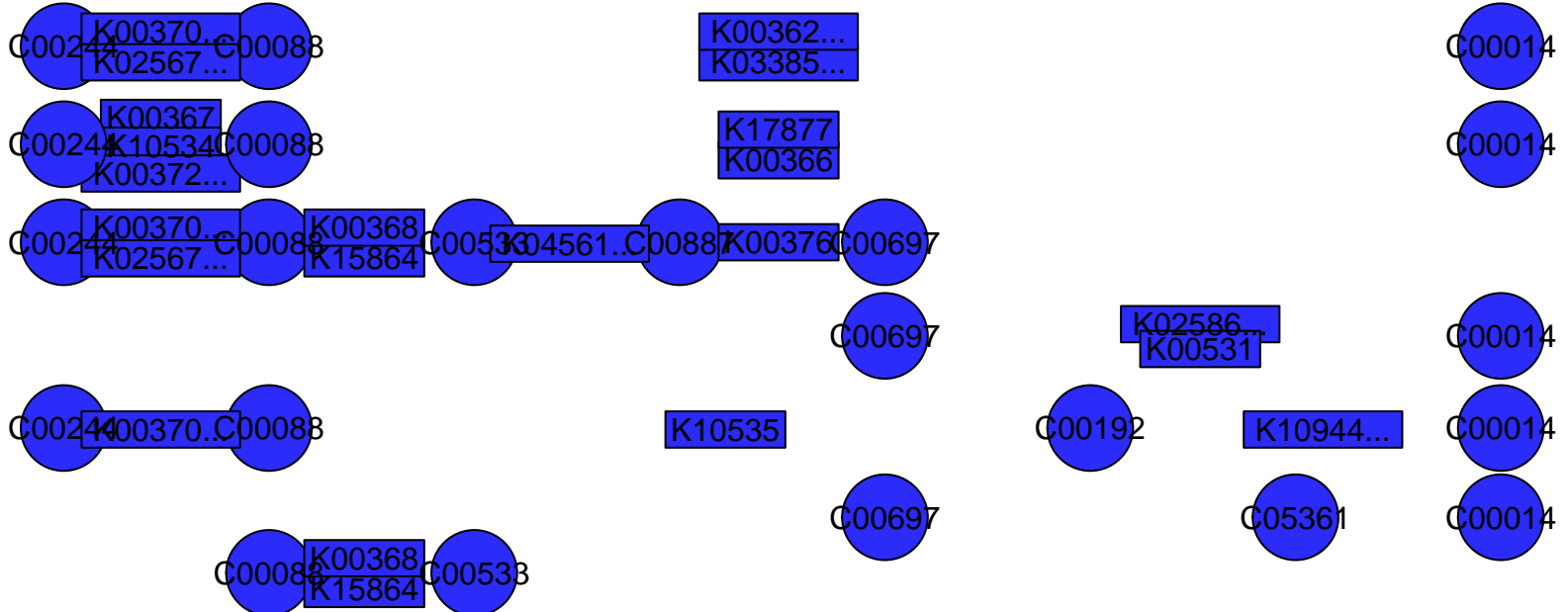
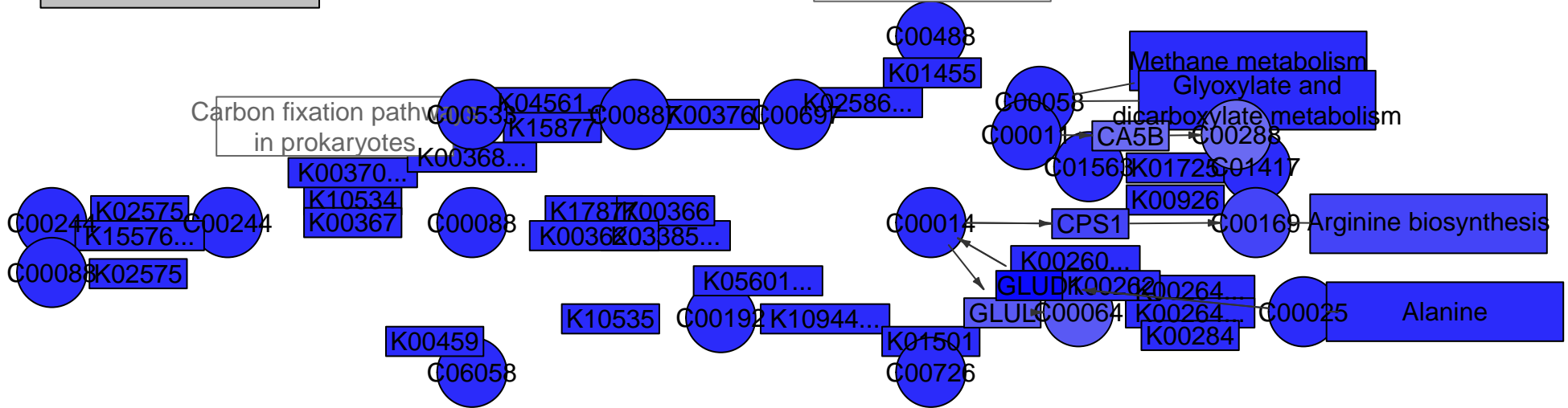
Nitrogen metabolism
MPI-094

Cyanoamino acid
metabolism



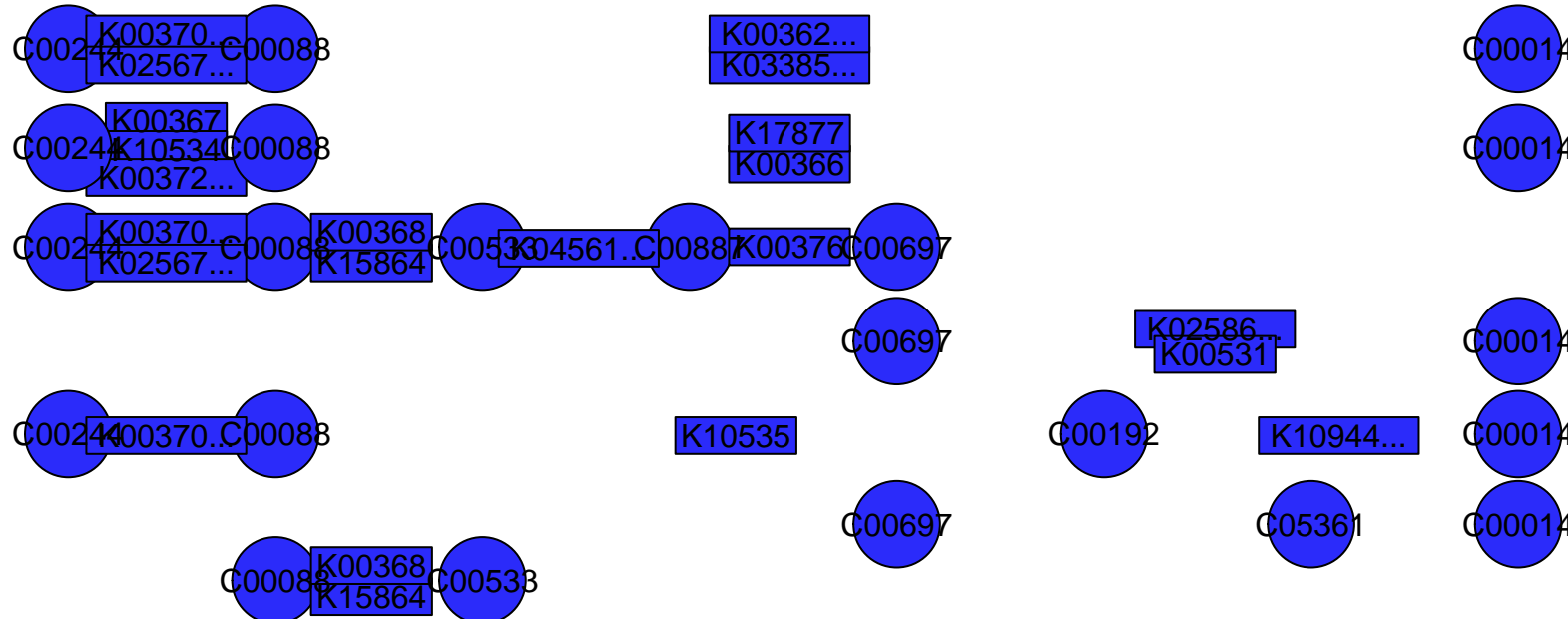
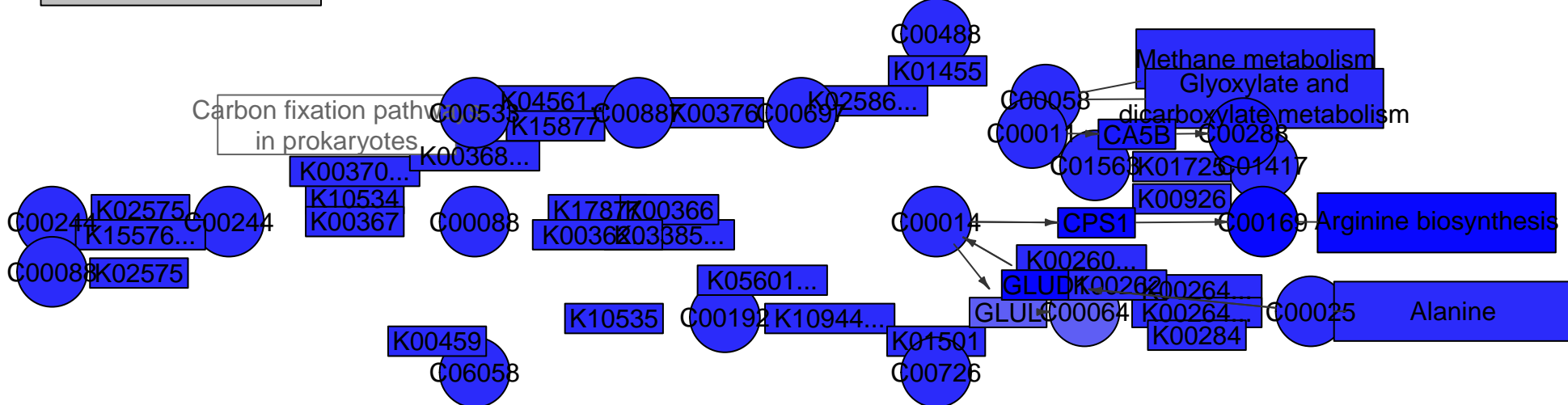
Nitrogen metabolism
MPI-112

Cyanoamino acid
metabolism



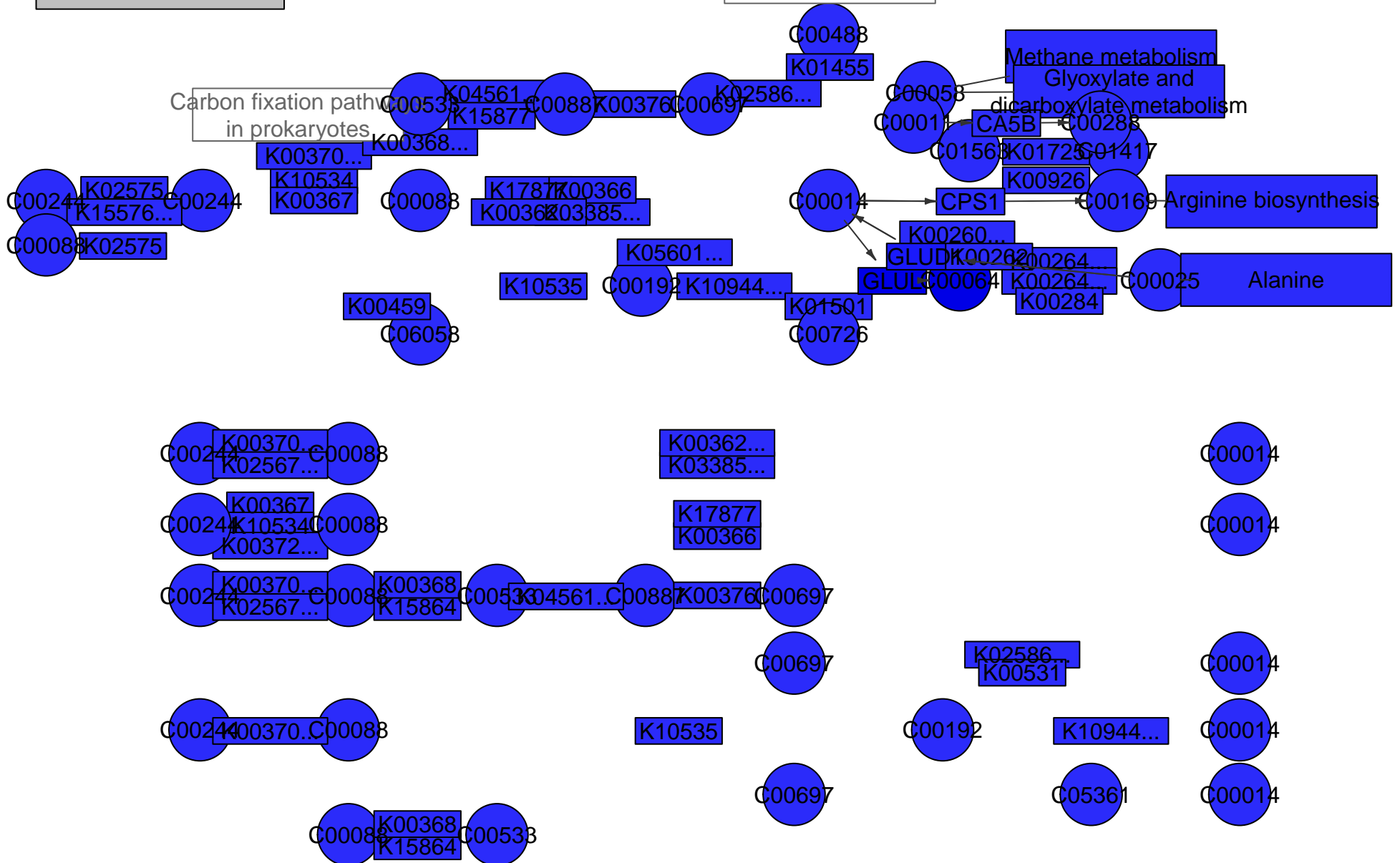
Nitrogen metabolism
MPI-124

Cyanoamino acid
metabolism



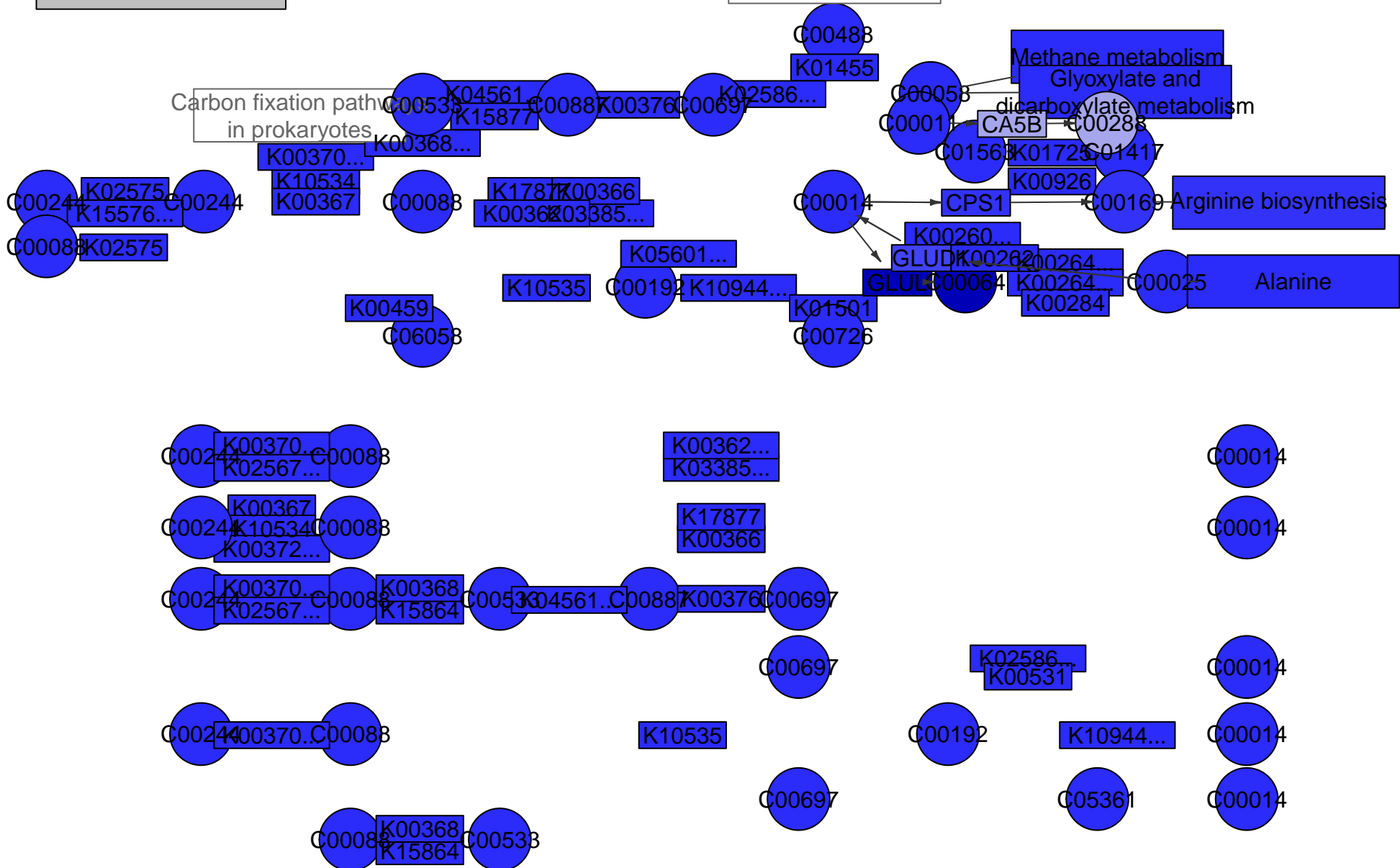
Nitrogen metabolism
MPI-126

Cyanoamino acid
metabolism



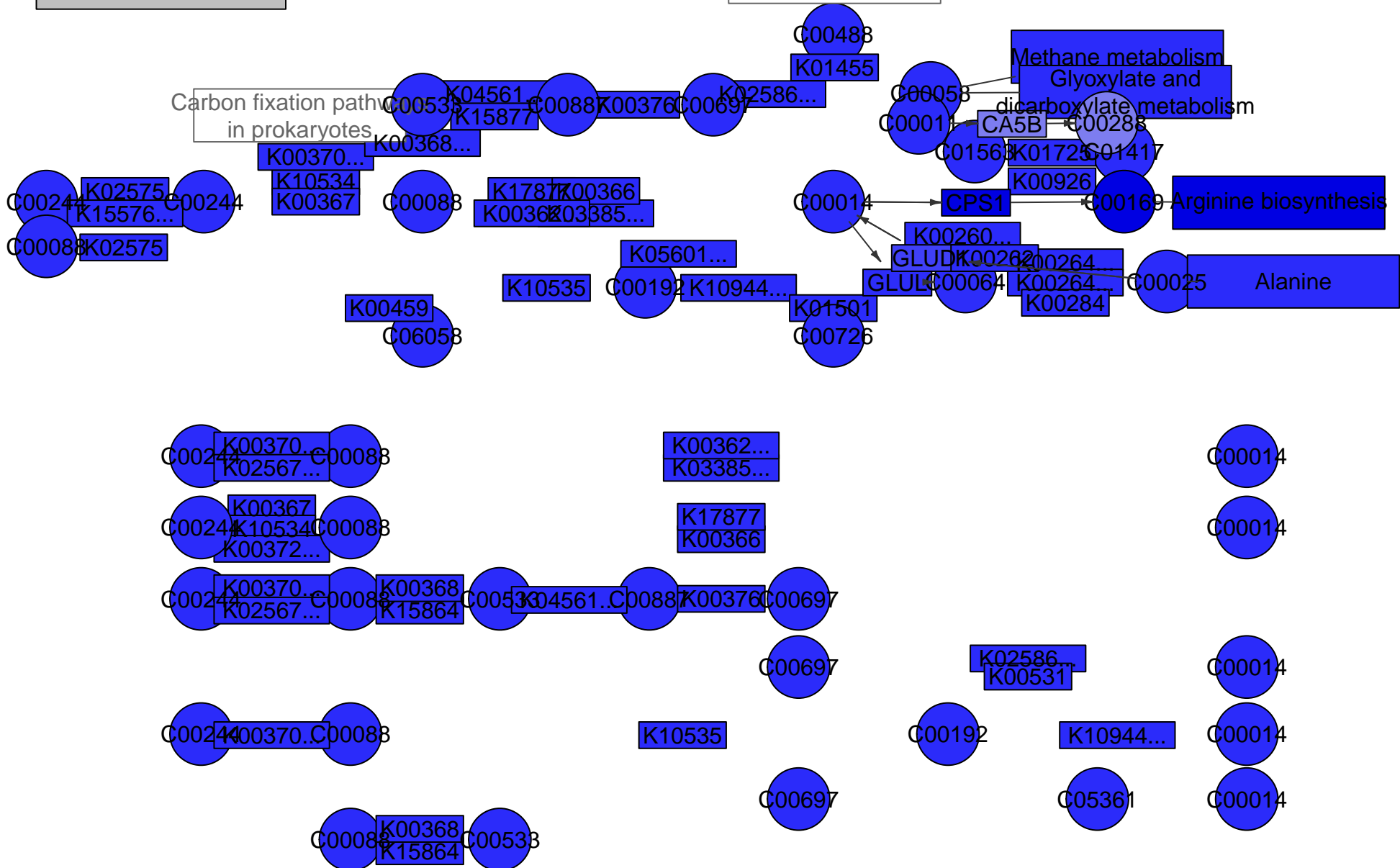
Nitrogen metabolism
MPI-131

Cyanoamino acid
metabolism



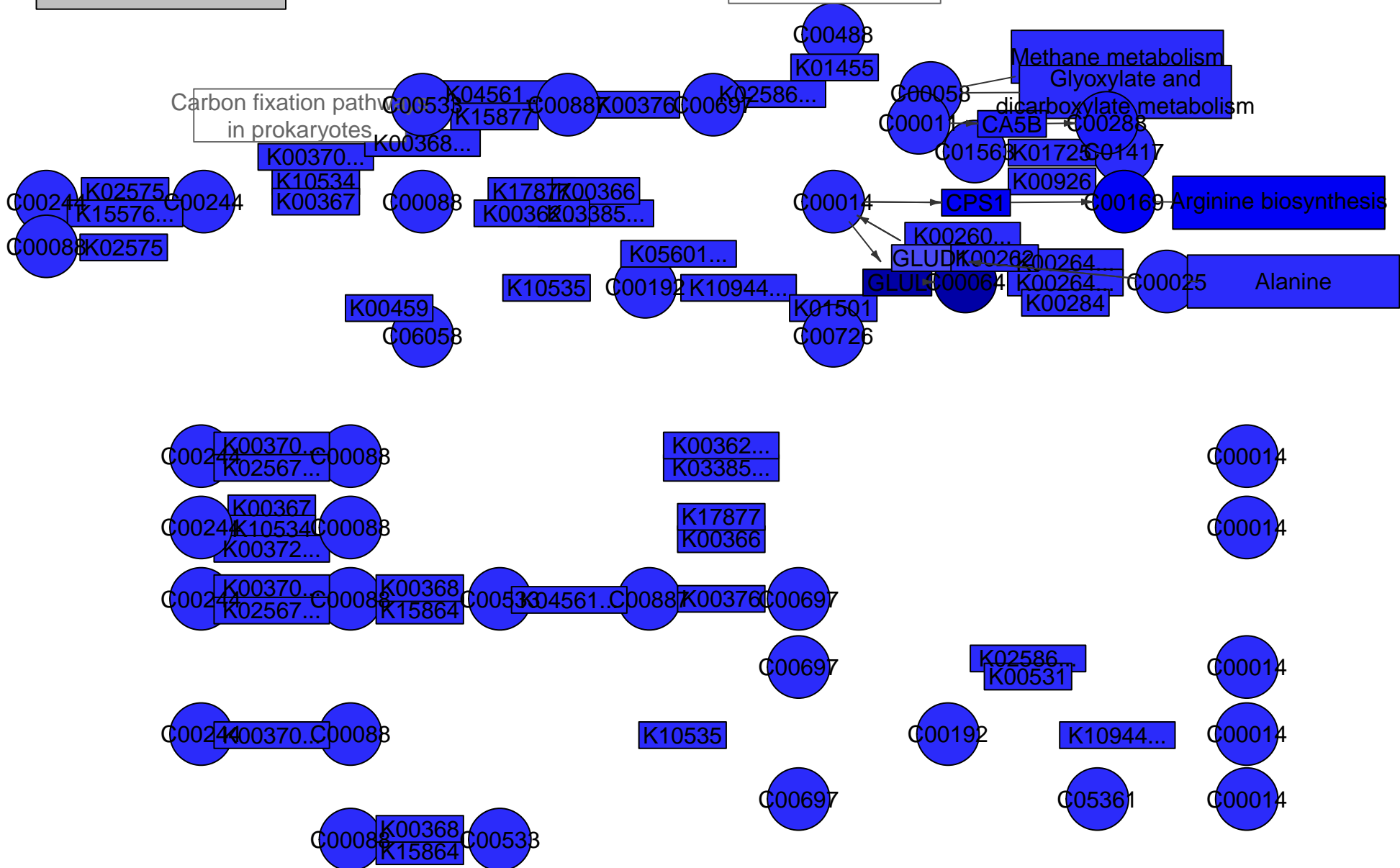
Nitrogen metabolism
MPI-143

Cyanoamino acid
metabolism



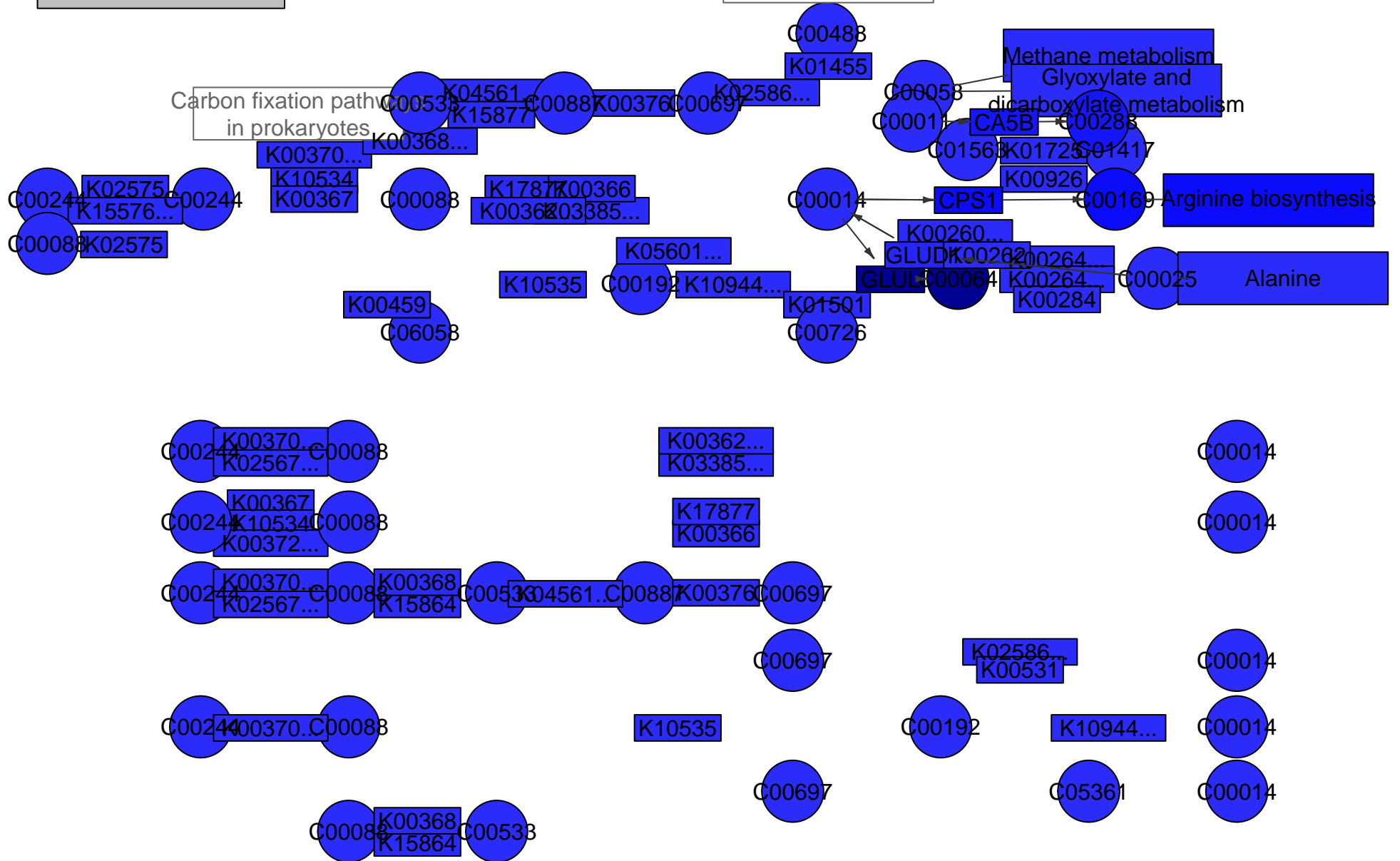
Nitrogen metabolism
MPI-161

Cyanoamino acid
metabolism



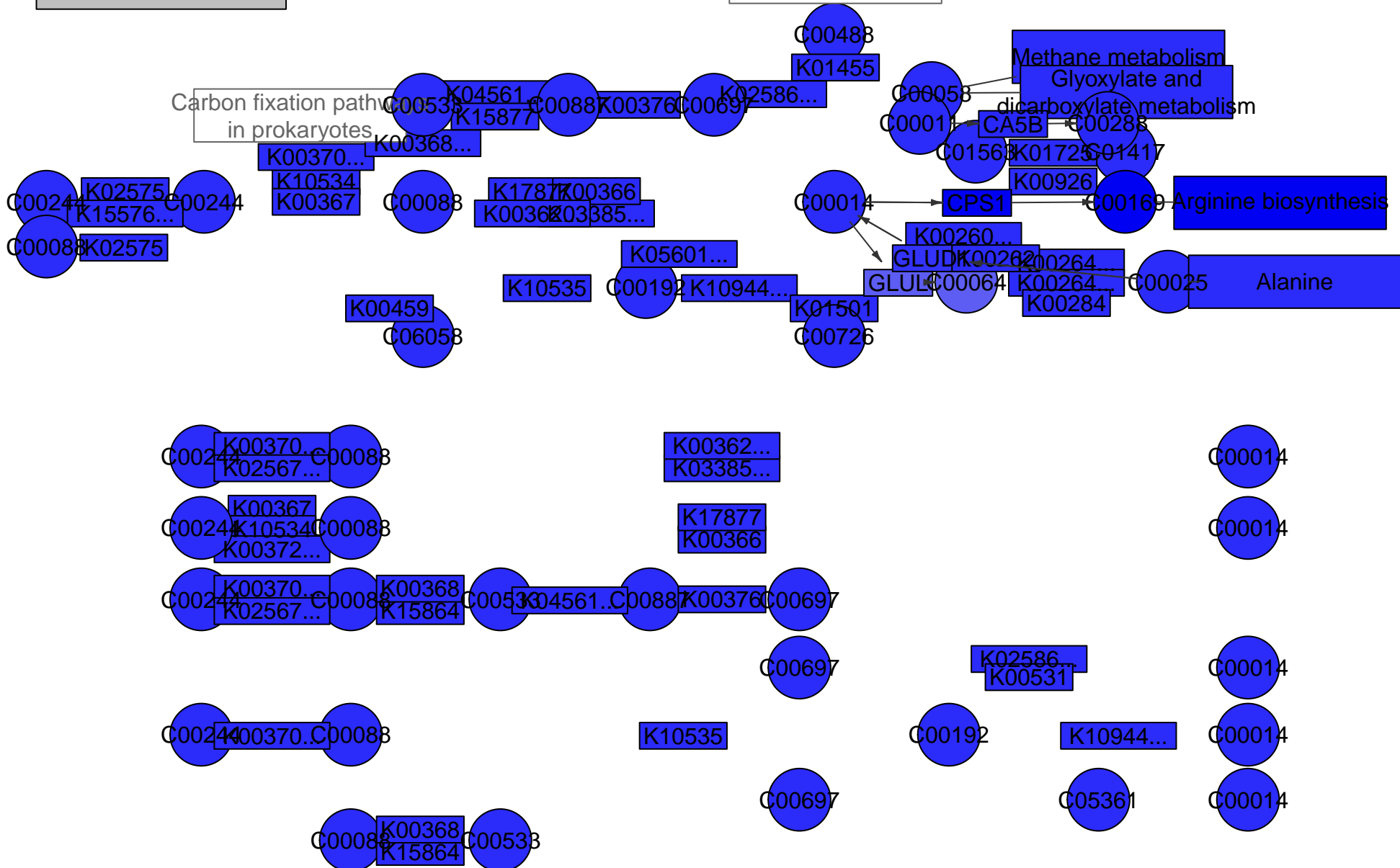
Nitrogen metabolism
MPI-165

Cyanoamino acid
metabolism



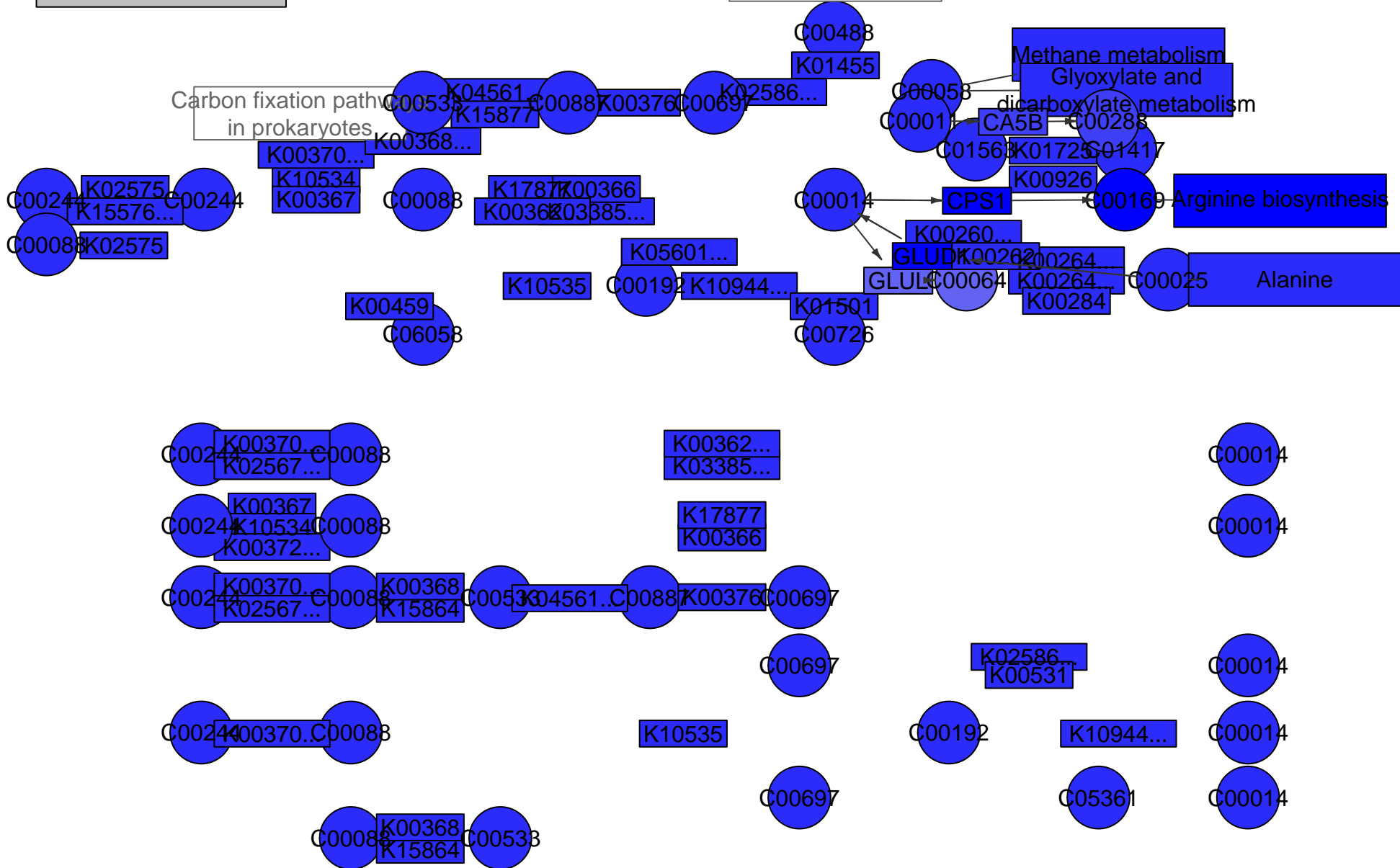
Nitrogen metabolism
MPI-169

Cyanoamino acid
metabolism



Nitrogen metabolism
MPI-175

Cyanoamino acid
metabolism



Nitrogen metabolism
MPI-187

Cyanoamino acid
metabolism

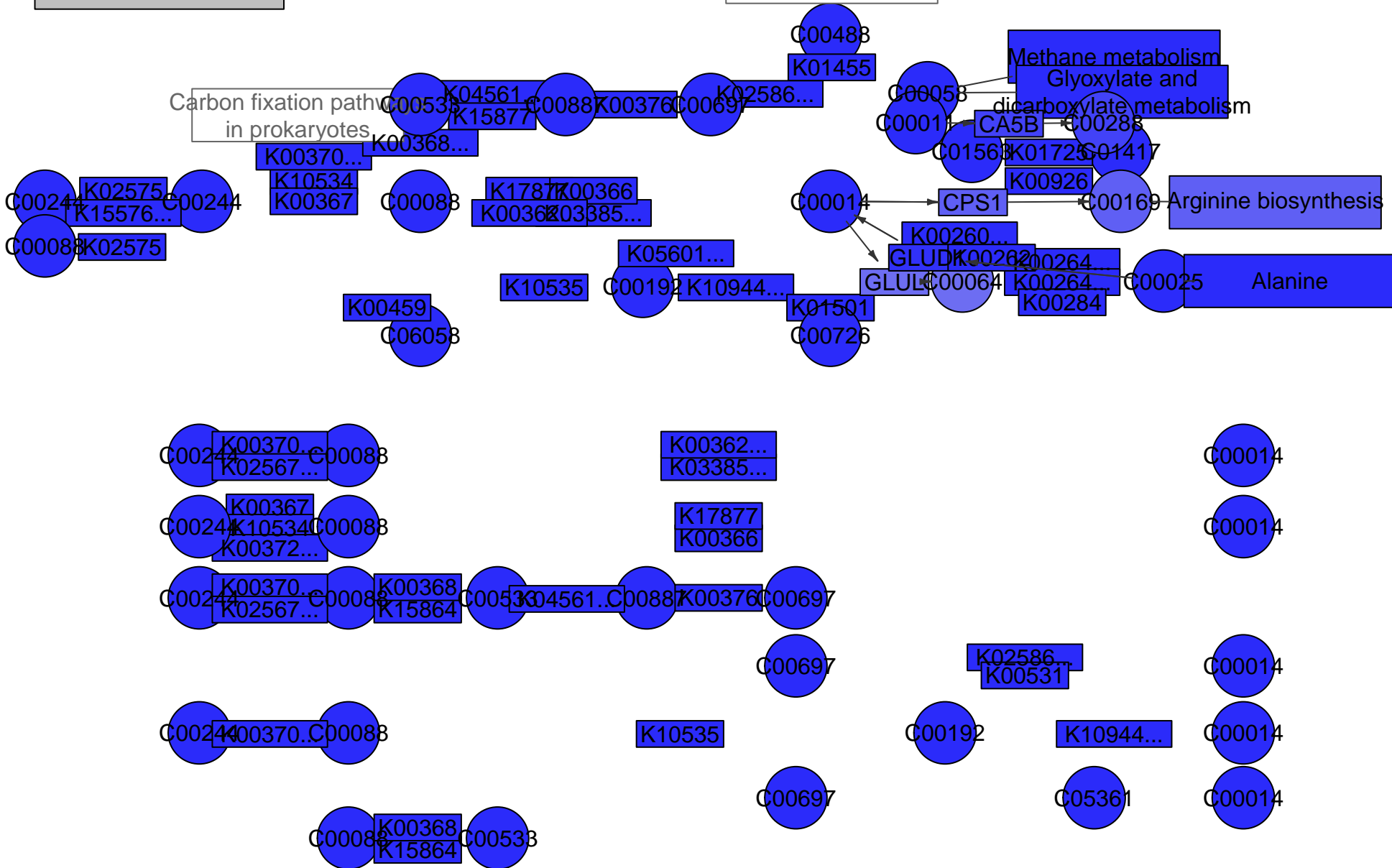
Carbon fixation pathway
in prokaryotes

Methane metabolism

Glyoxylate and
dicarboxylate metabolism

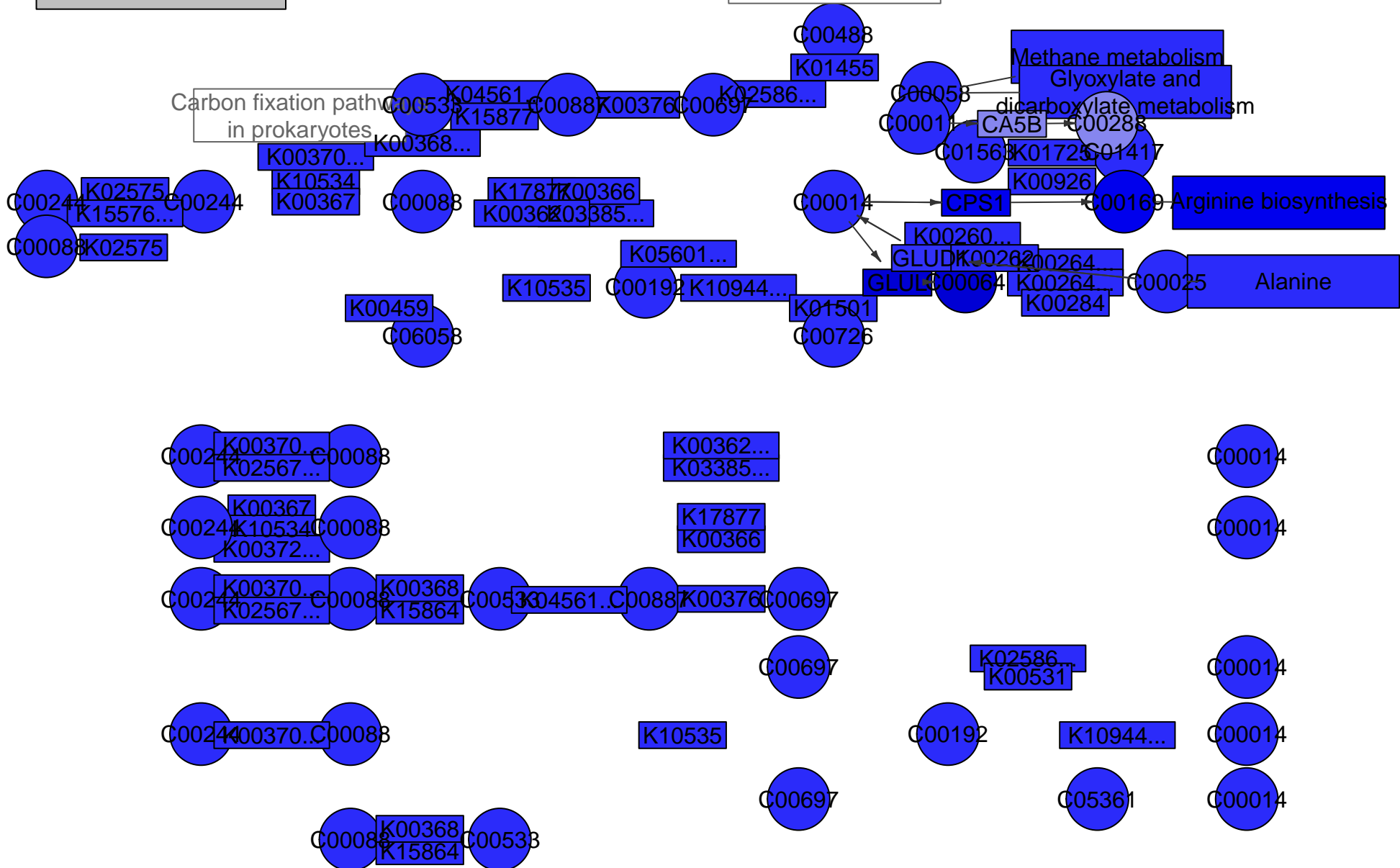
Arginine biosynthesis

Alanine



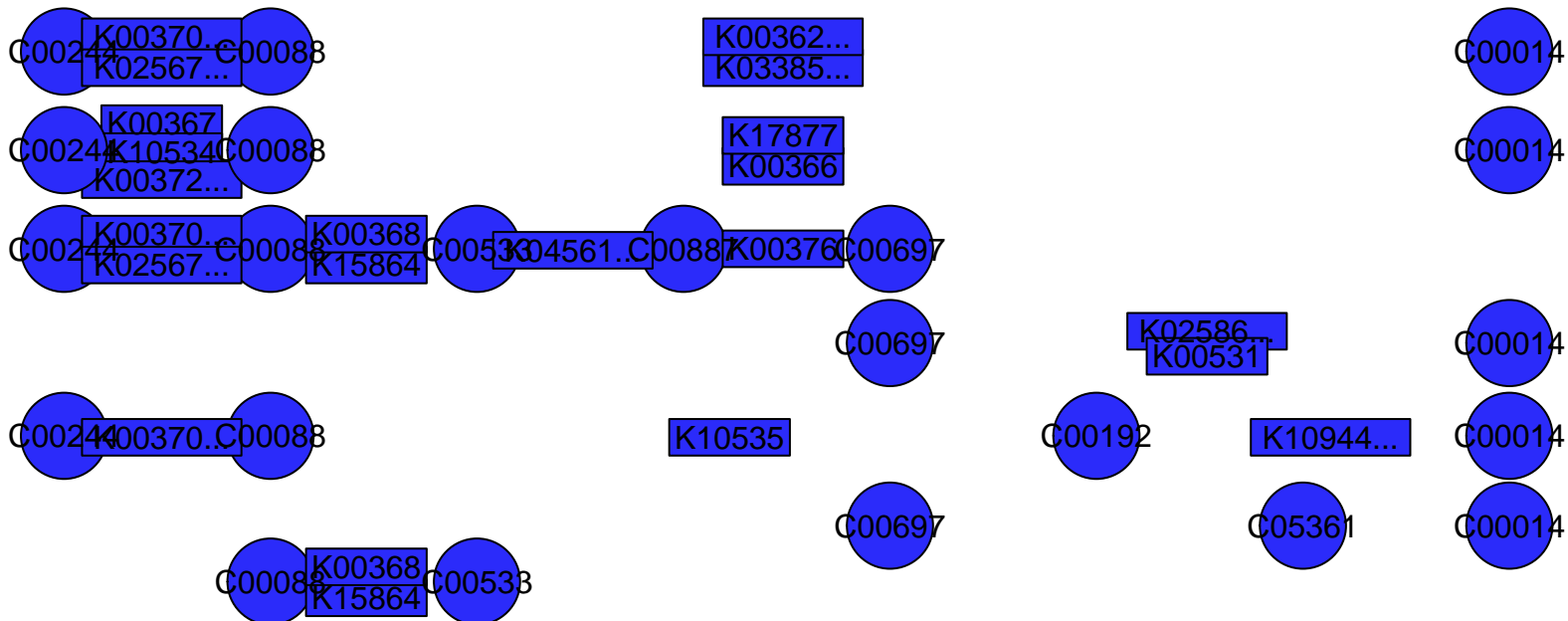
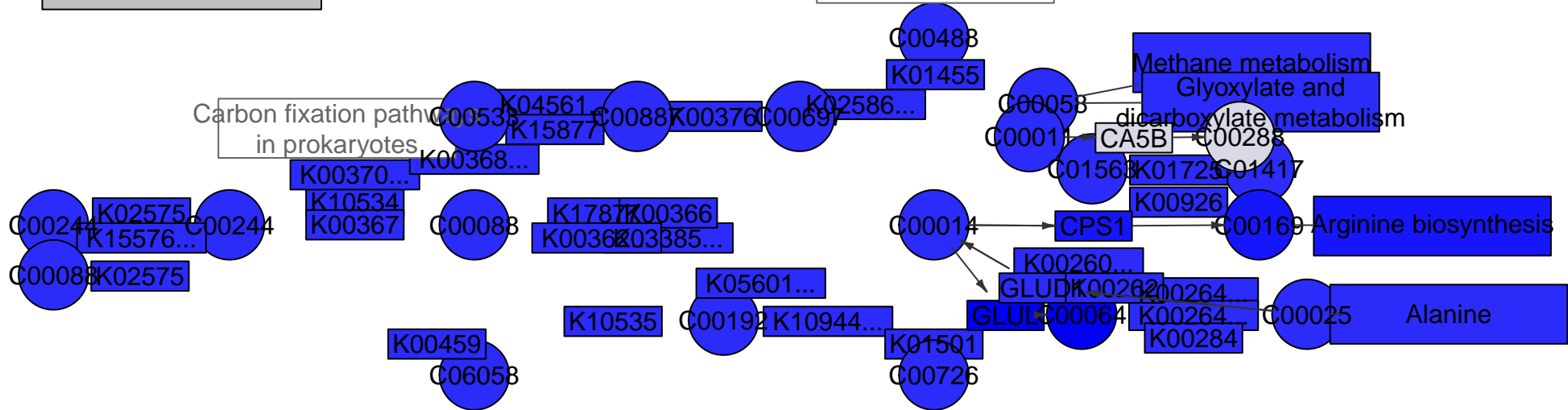
Nitrogen metabolism
MPI-193

Cyanoamino acid
metabolism



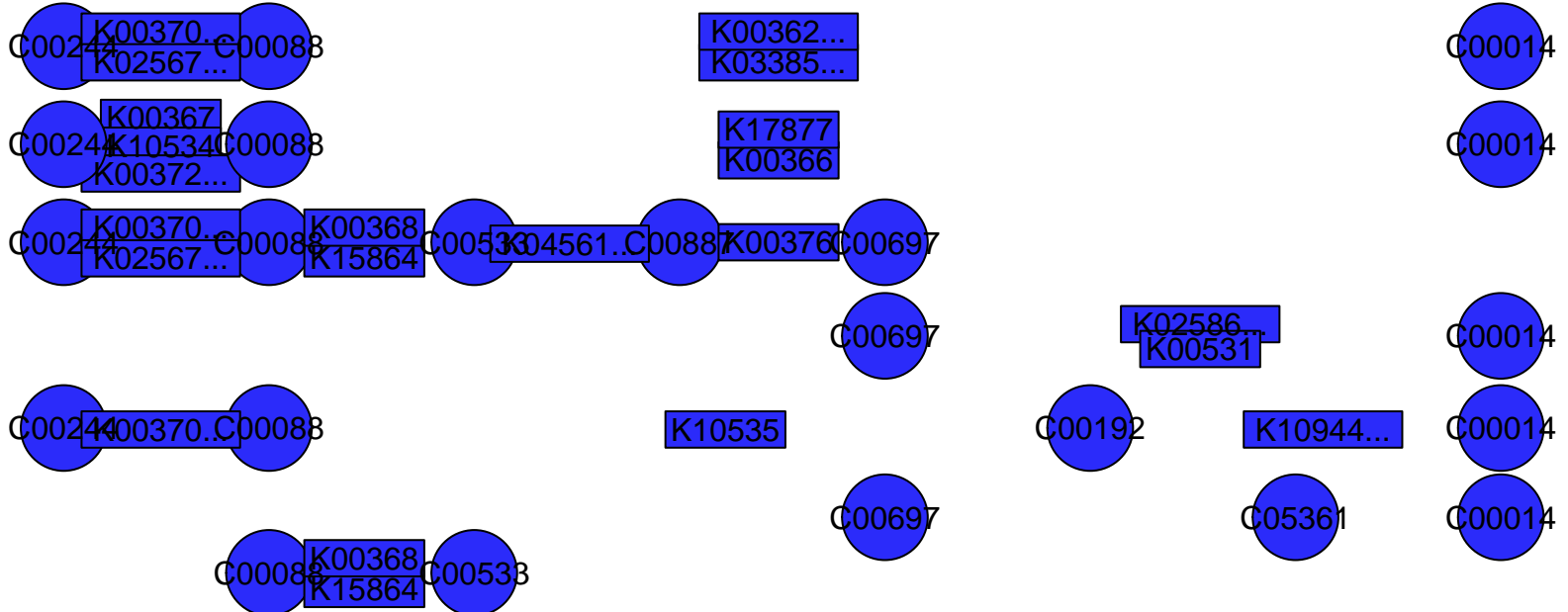
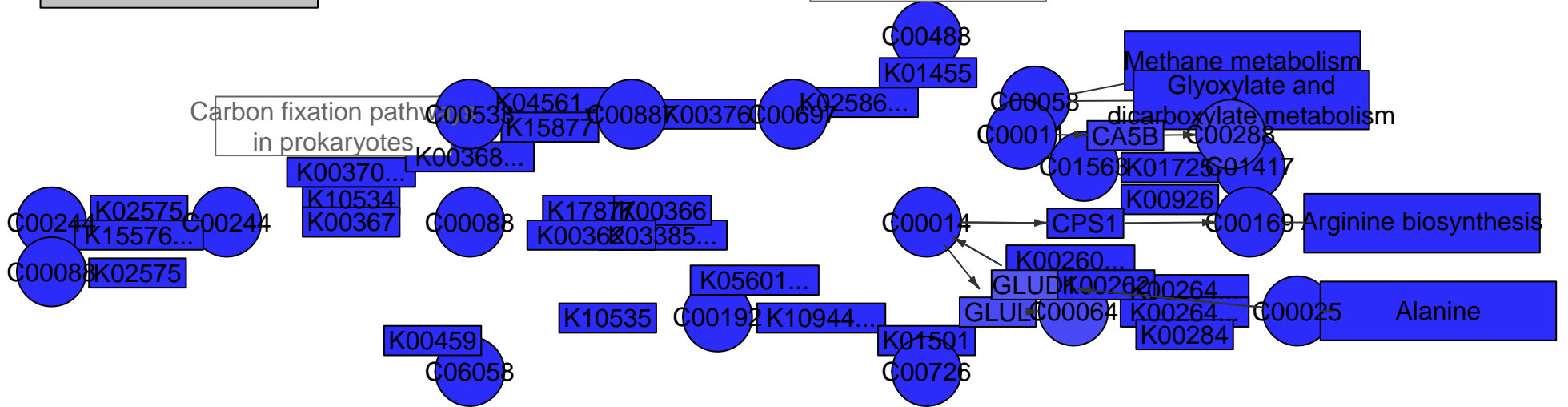
Nitrogen metabolism
MPI-216

Cyanoamino acid
metabolism



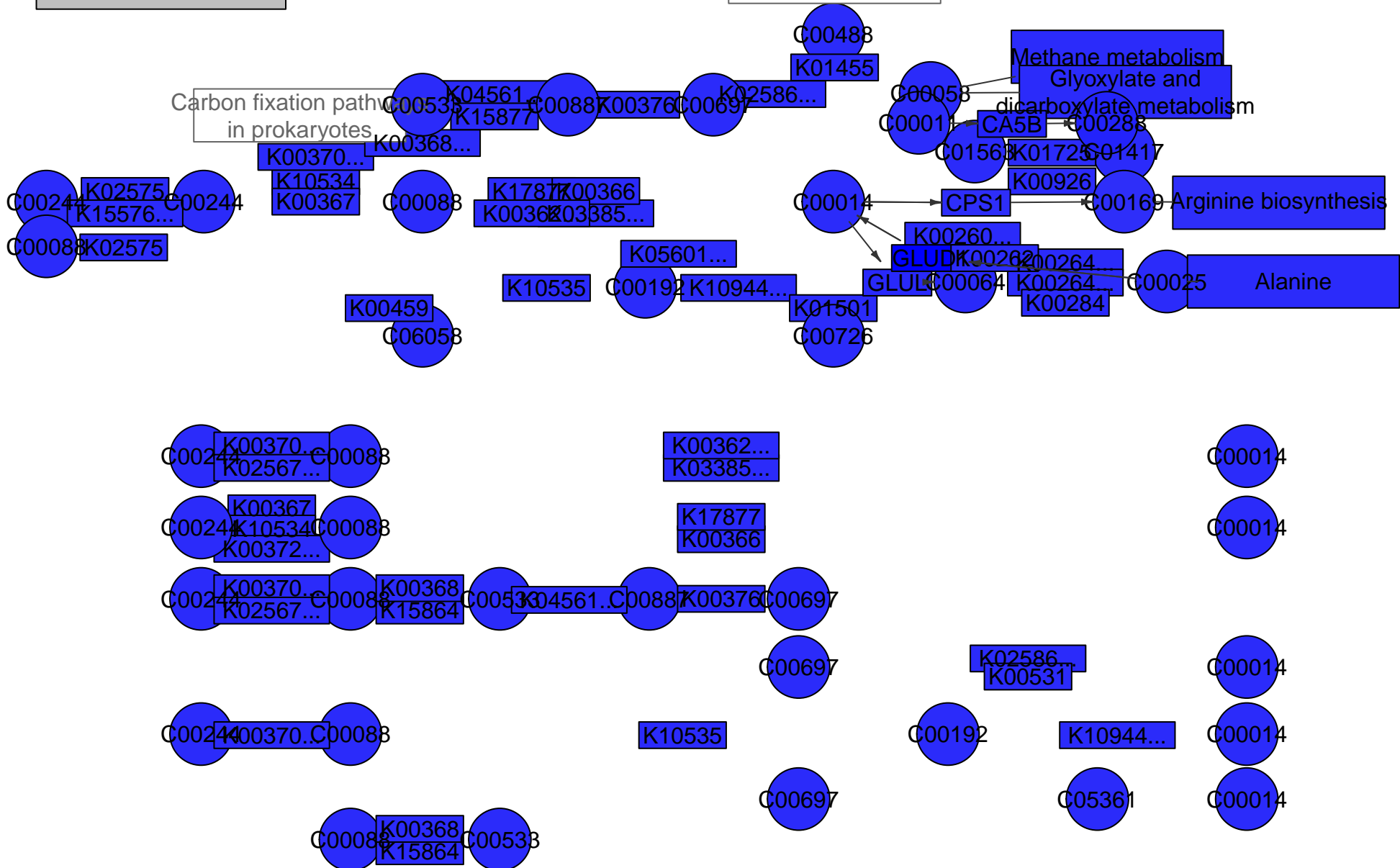
Nitrogen metabolism
MPI-225

Cyanoamino acid
metabolism



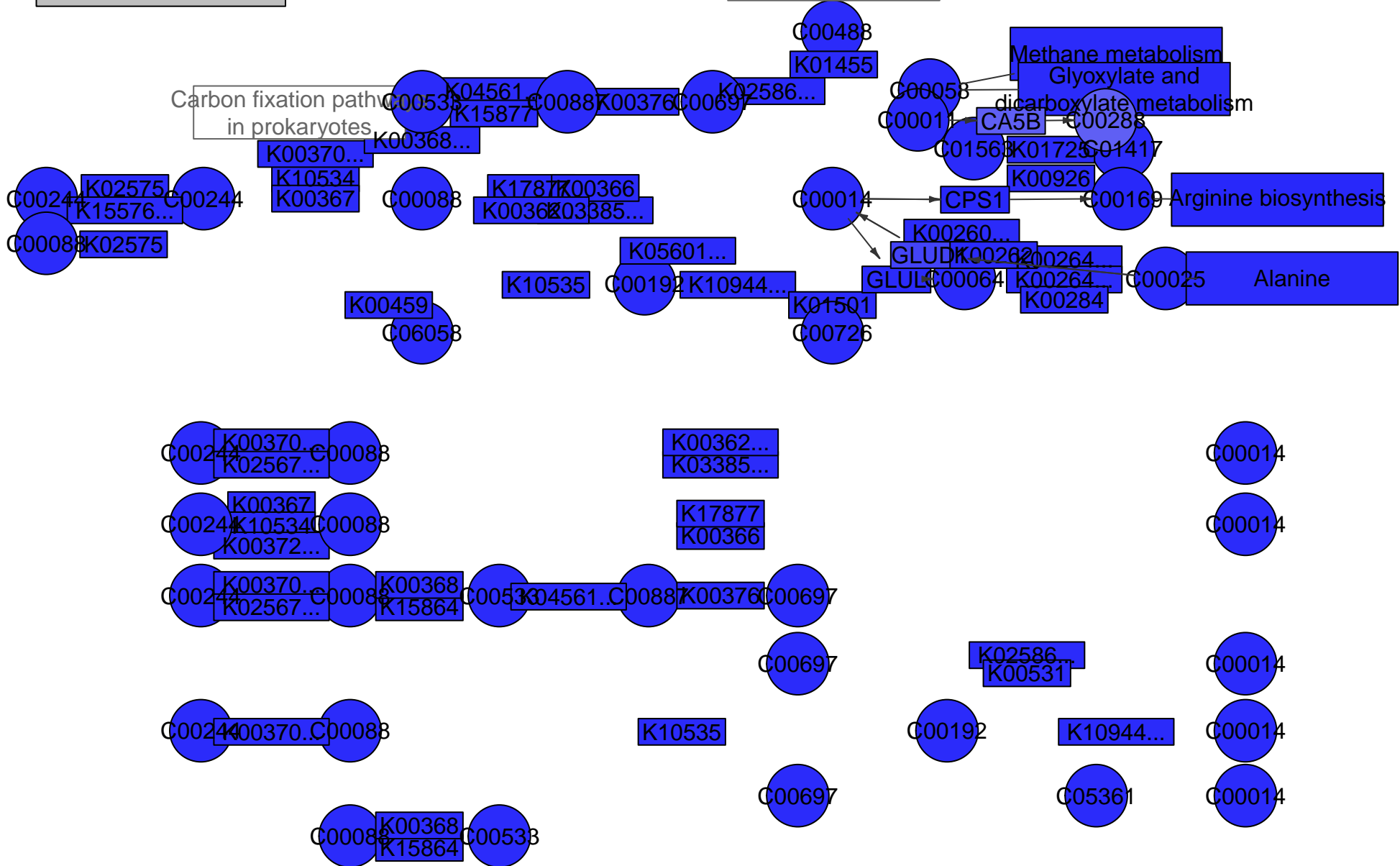
Nitrogen metabolism
MPI-249

Cyanoamino acid
metabolism



Nitrogen metabolism
MPI-250

Cyanoamino acid
metabolism



Nitrogen metabolism
MPI-009

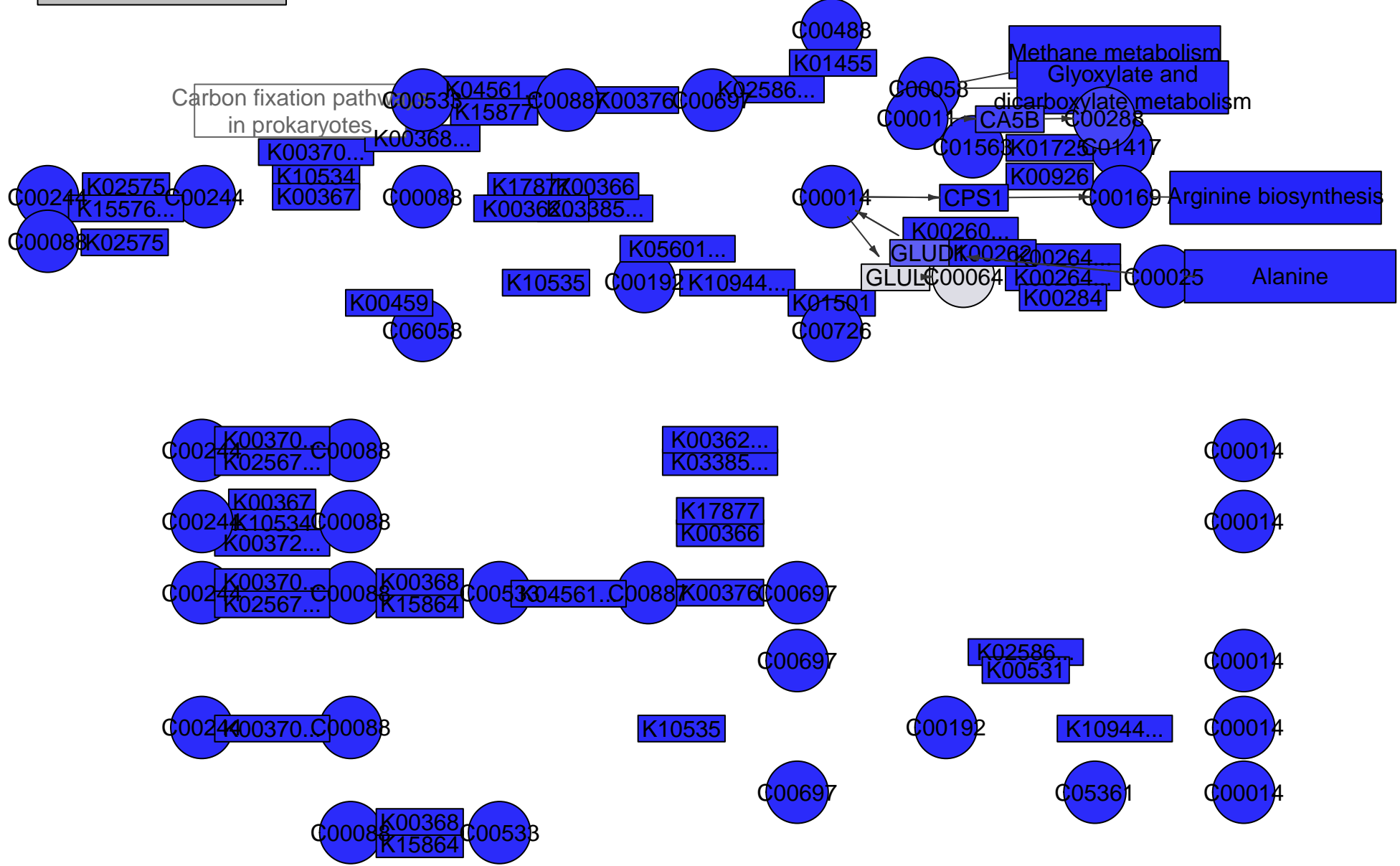
Cyanoamino acid
metabolism

Carbon fixation pathway
in prokaryotes

Methane metabolism
Glyoxylate and
dicarboxylate metabolism

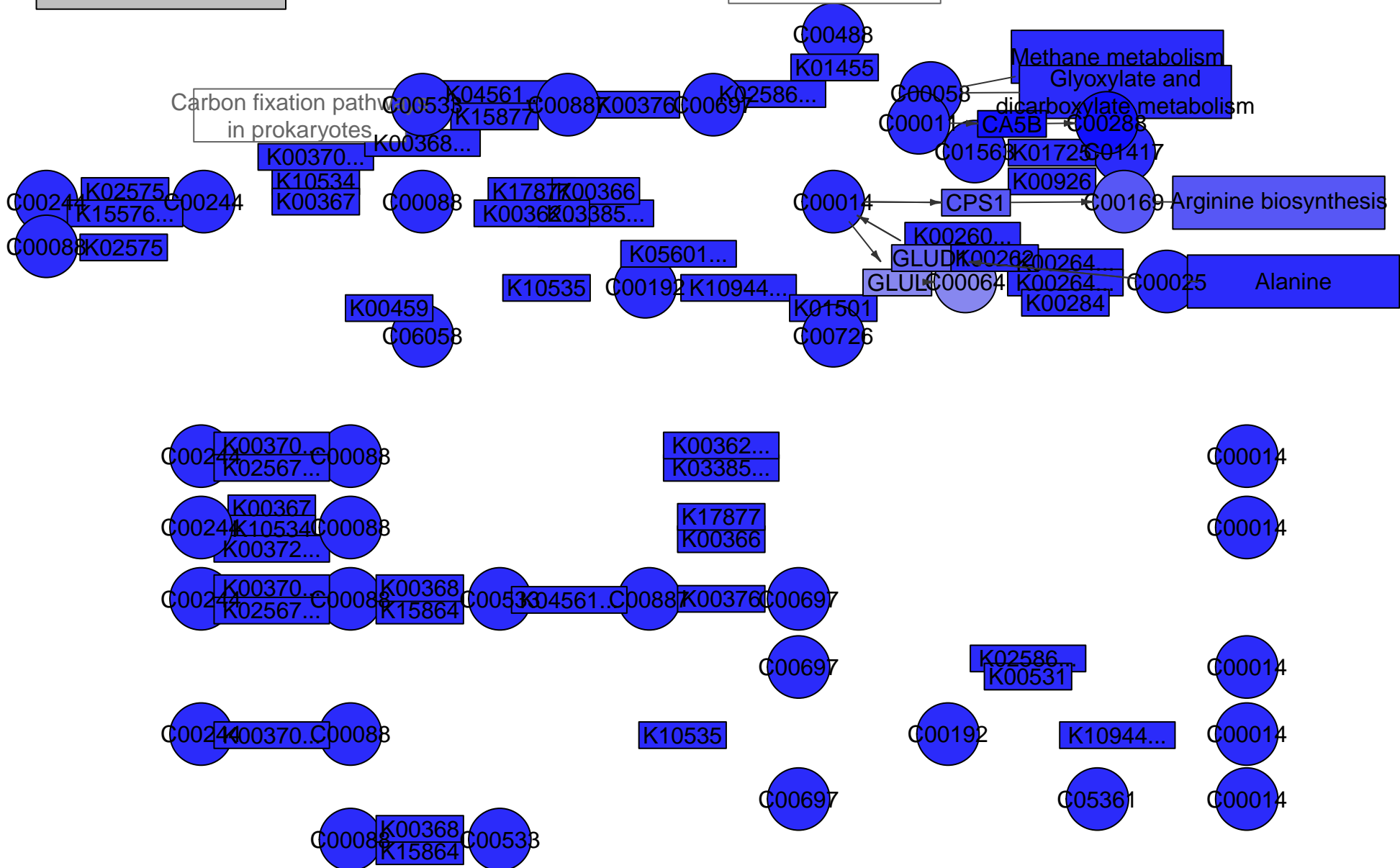
Arginine biosynthesis

Alanine



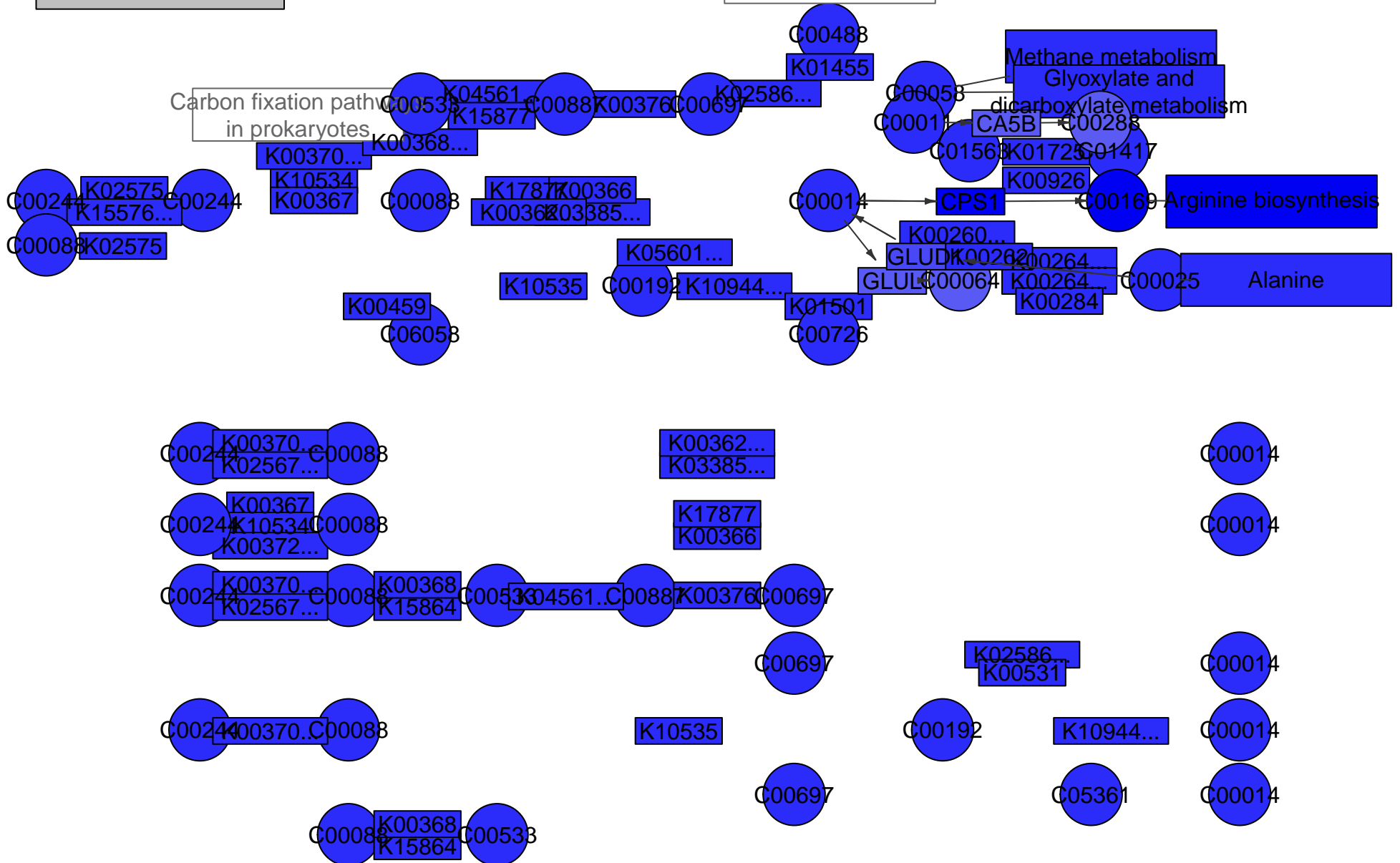
Nitrogen metabolism
MPI-010

Cyanoamino acid
metabolism



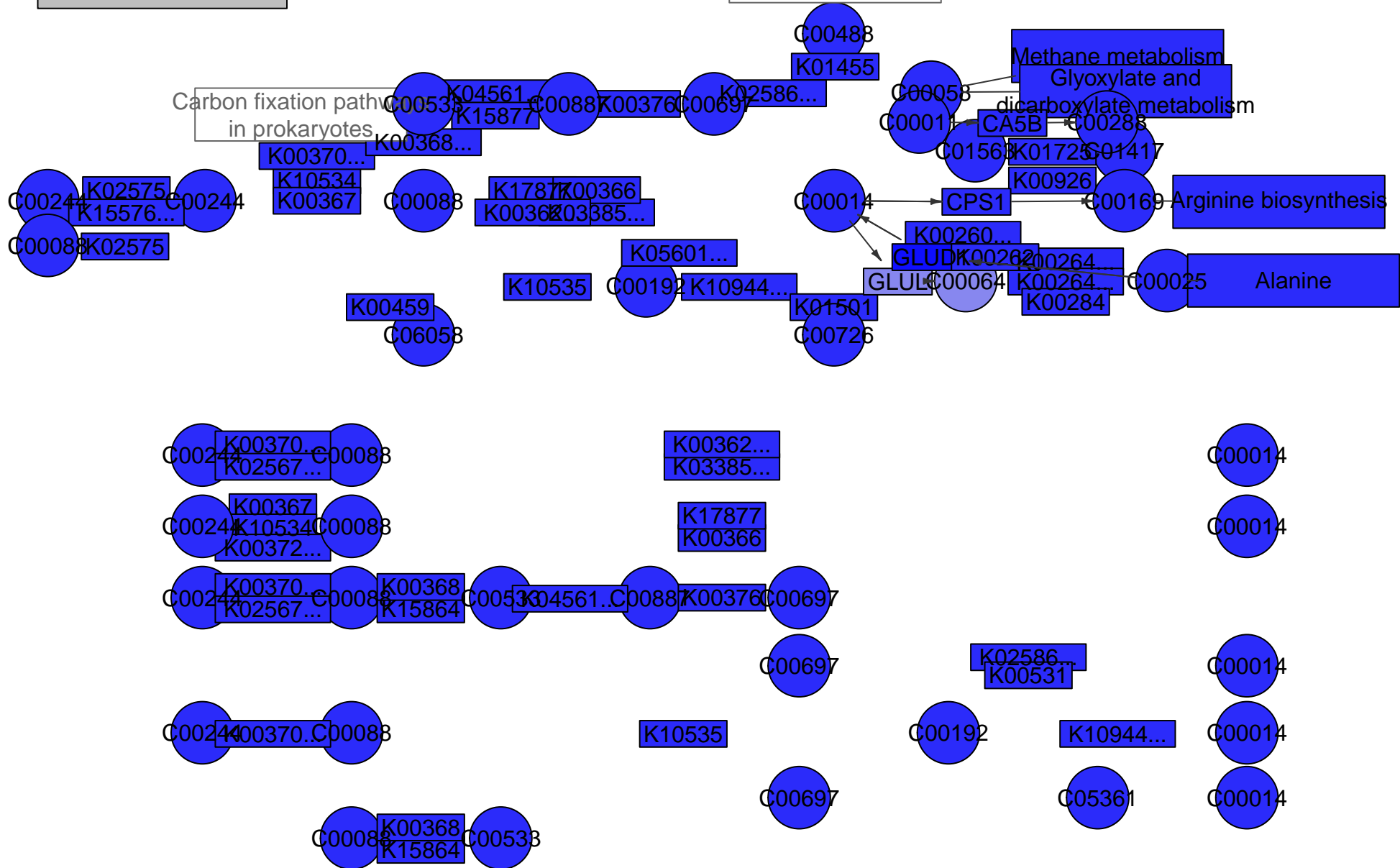
Nitrogen metabolism
MPI-012

Cyanoamino acid
metabolism



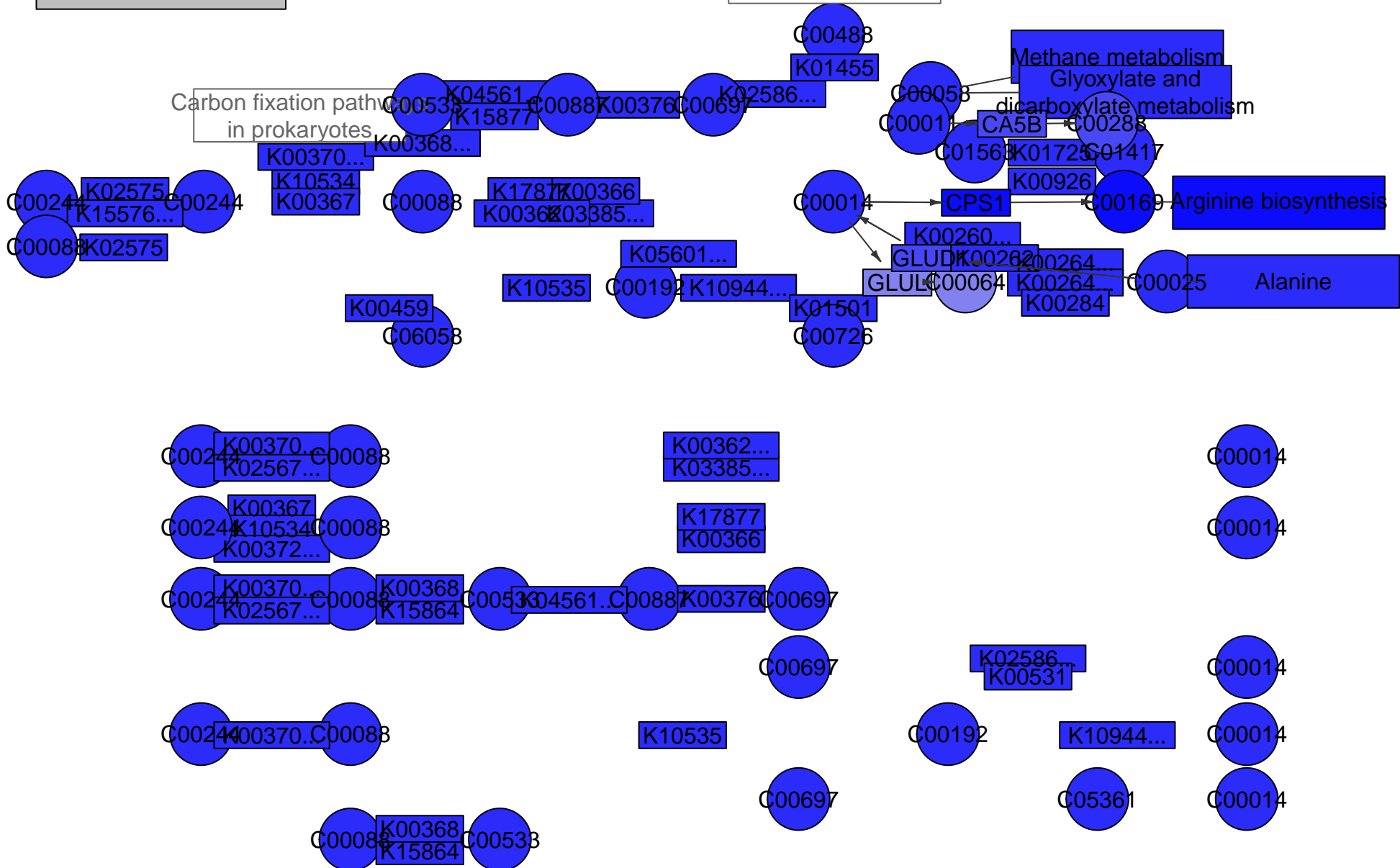
Nitrogen metabolism
MPI-013

Cyanoamino acid
metabolism



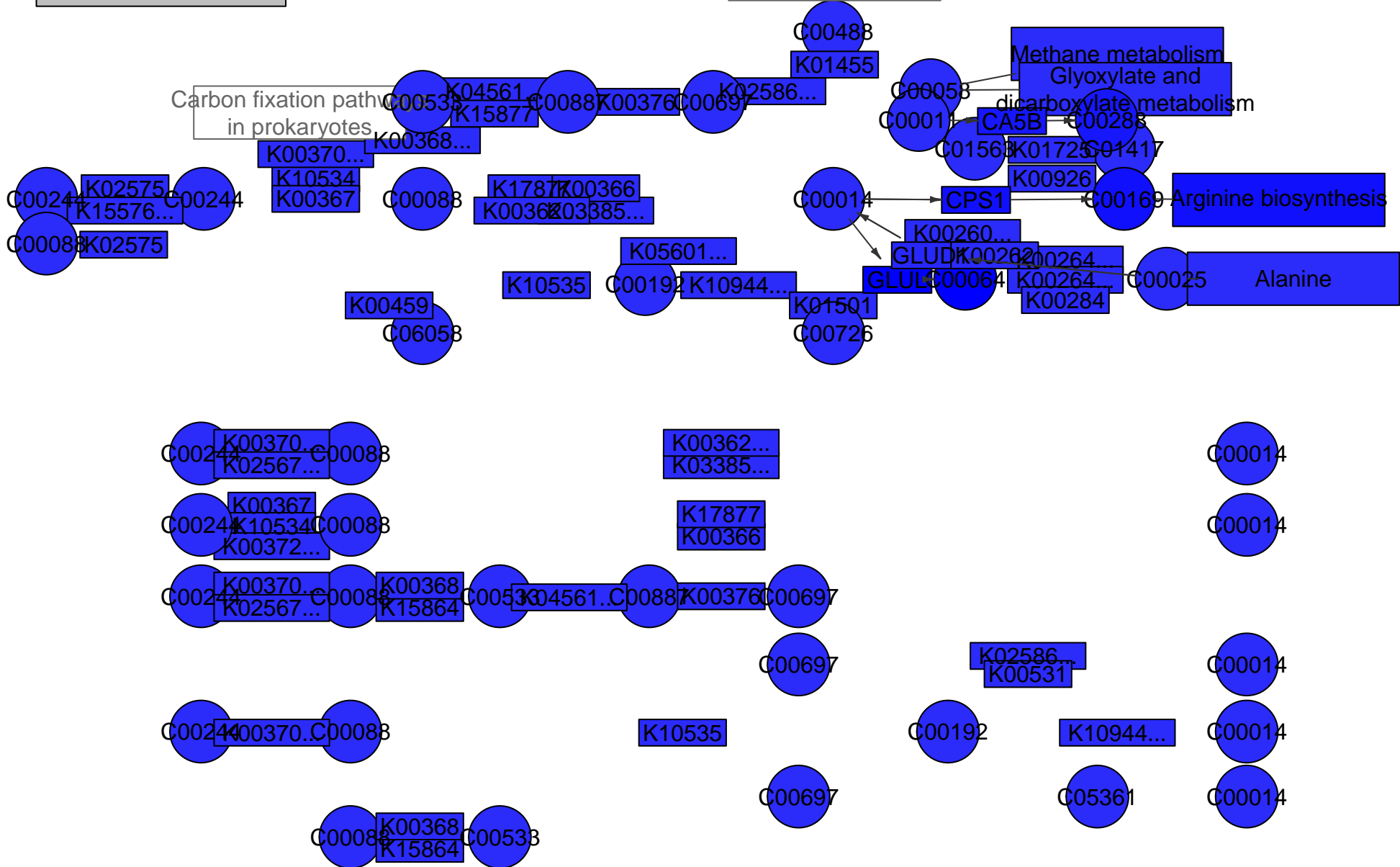
Nitrogen metabolism
MPI-014

Cyanoamino acid
metabolism



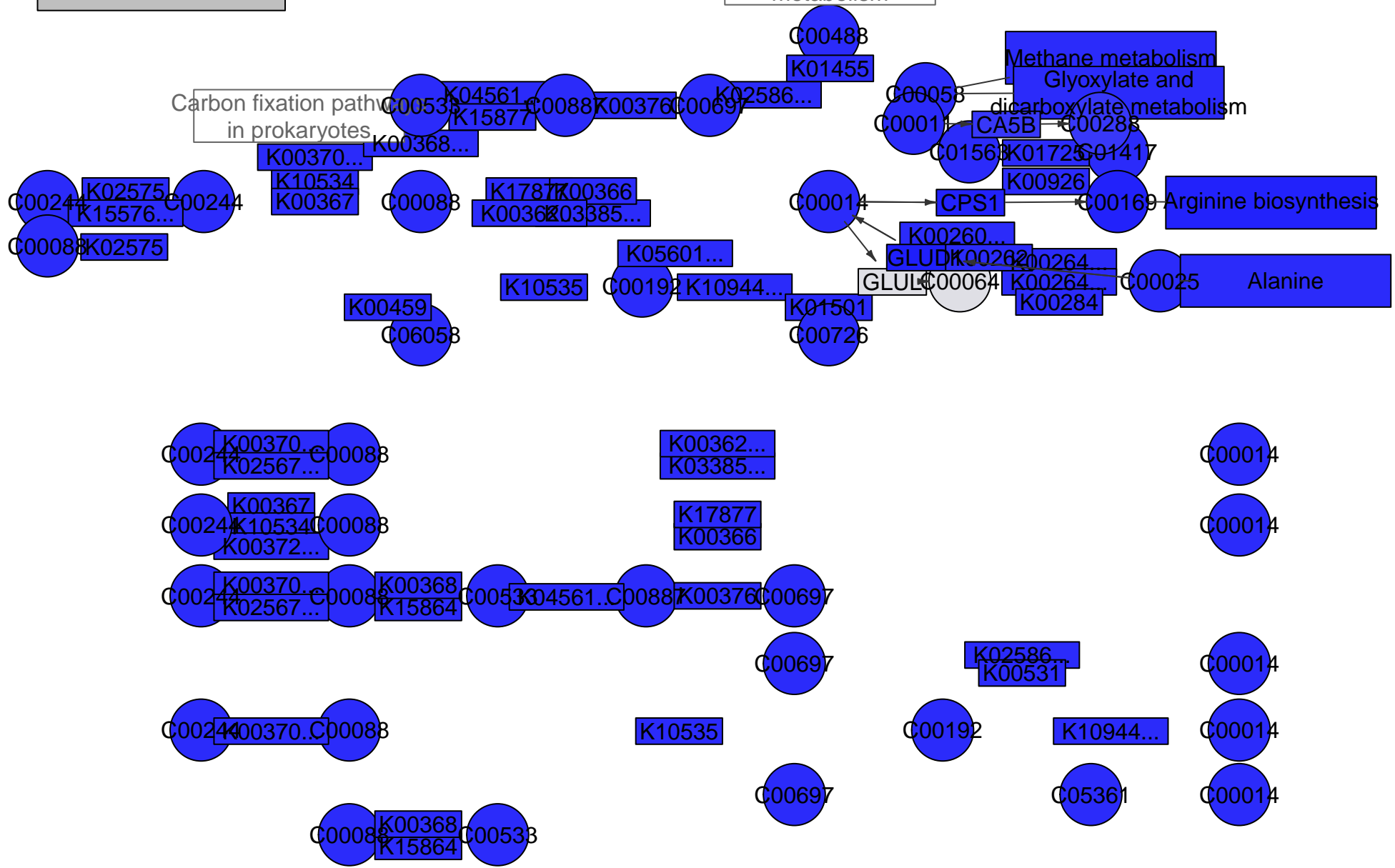
Nitrogen metabolism
MPI-015

Cyanoamino acid
metabolism



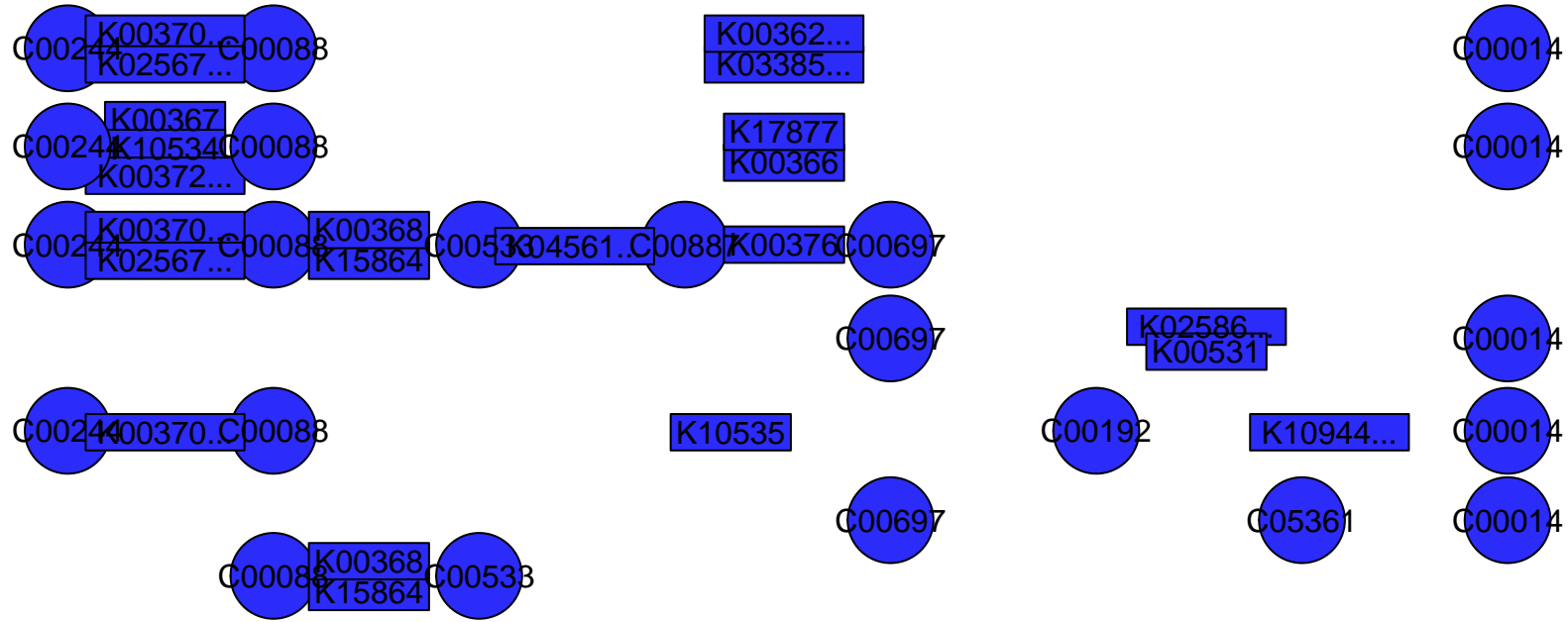
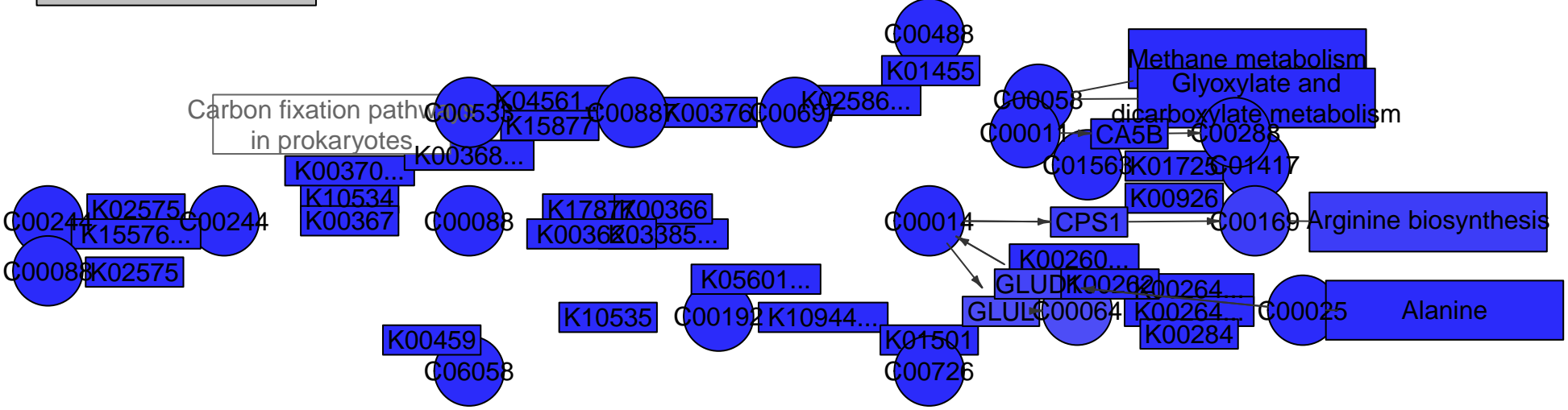
Nitrogen metabolism
MPI-021

Cyanoamino acid
metabolism



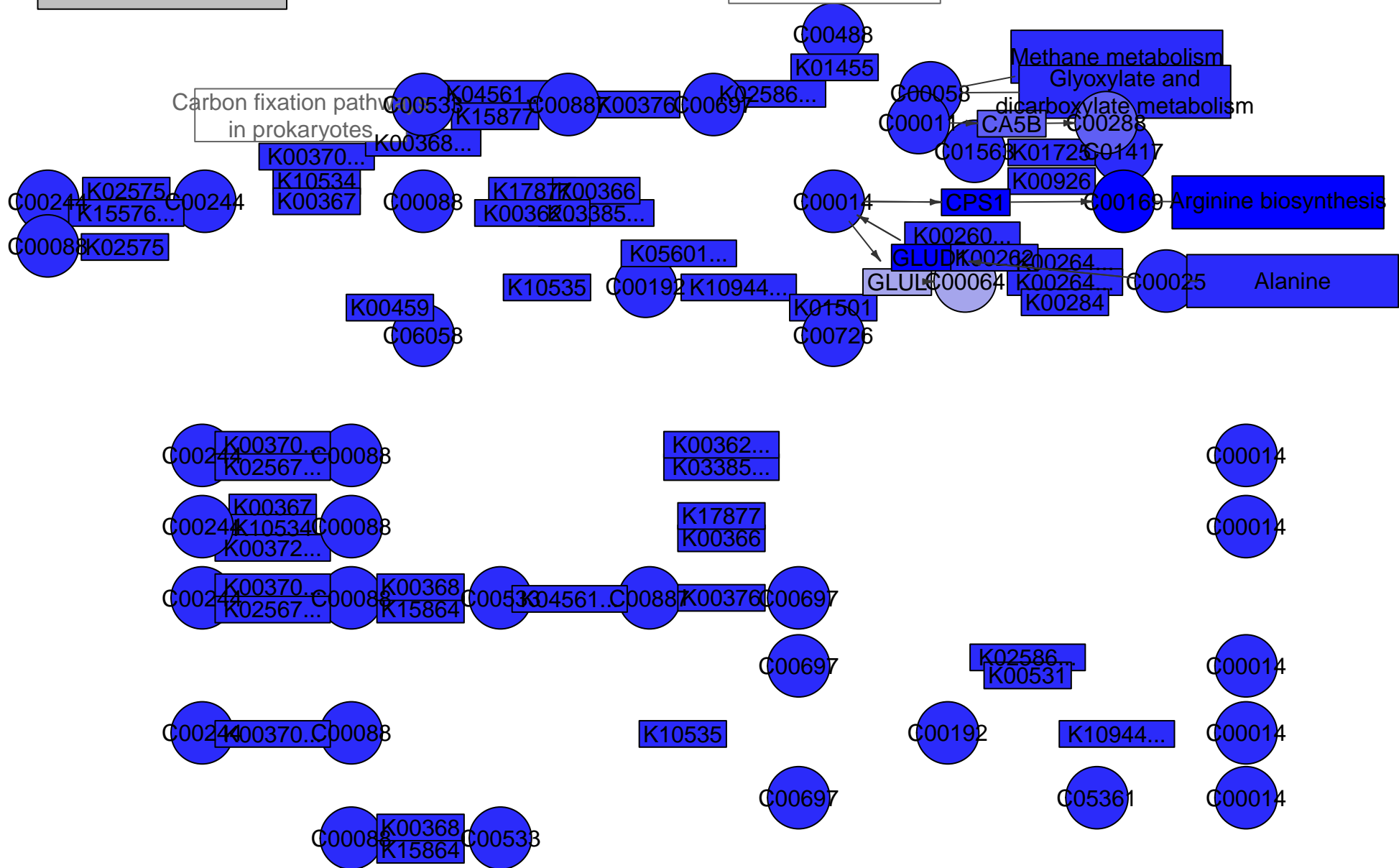
Nitrogen metabolism
MPI-022

Cyanoamino acid
metabolism



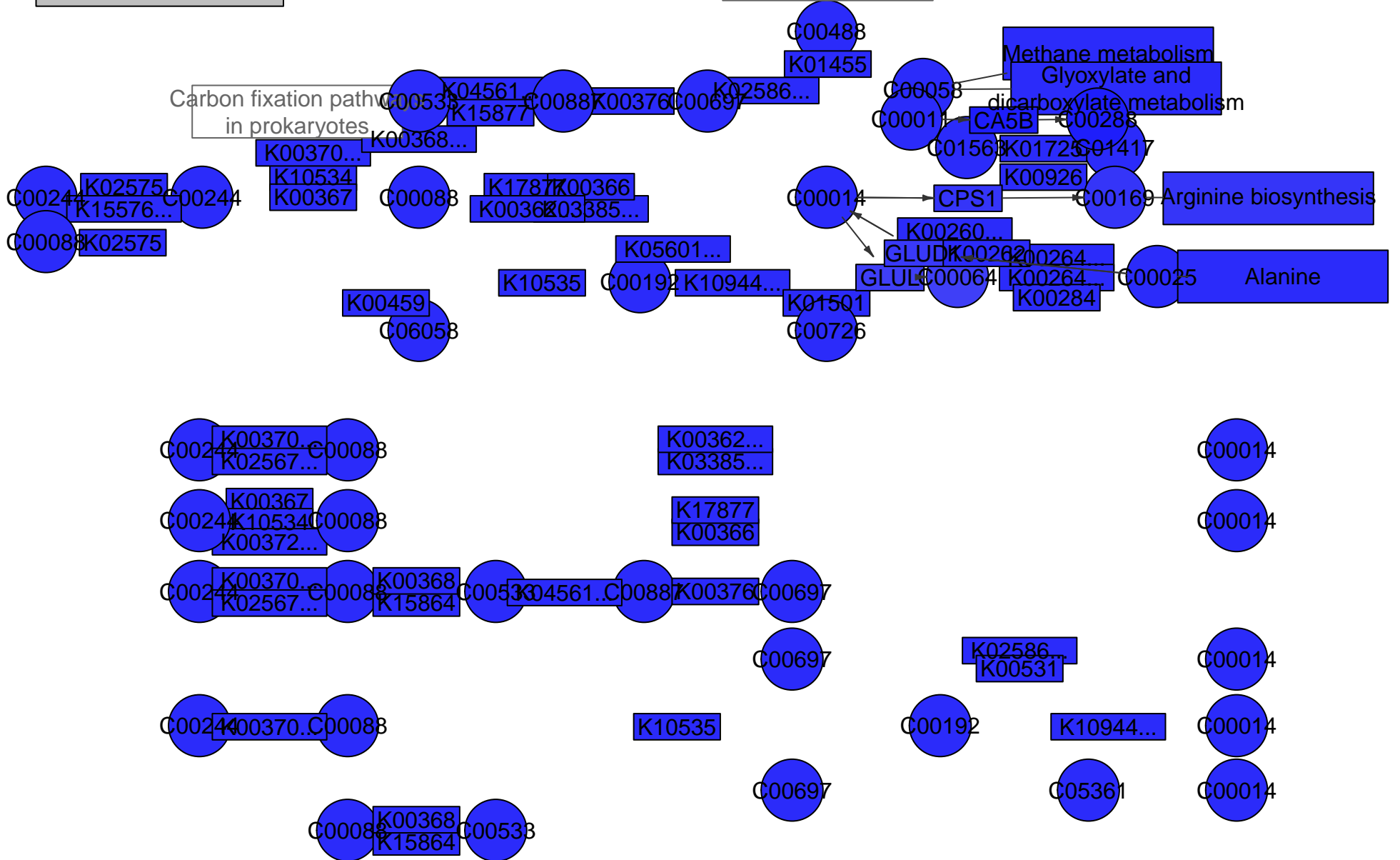
Nitrogen metabolism
MPI-030

Cyanoamino acid
metabolism



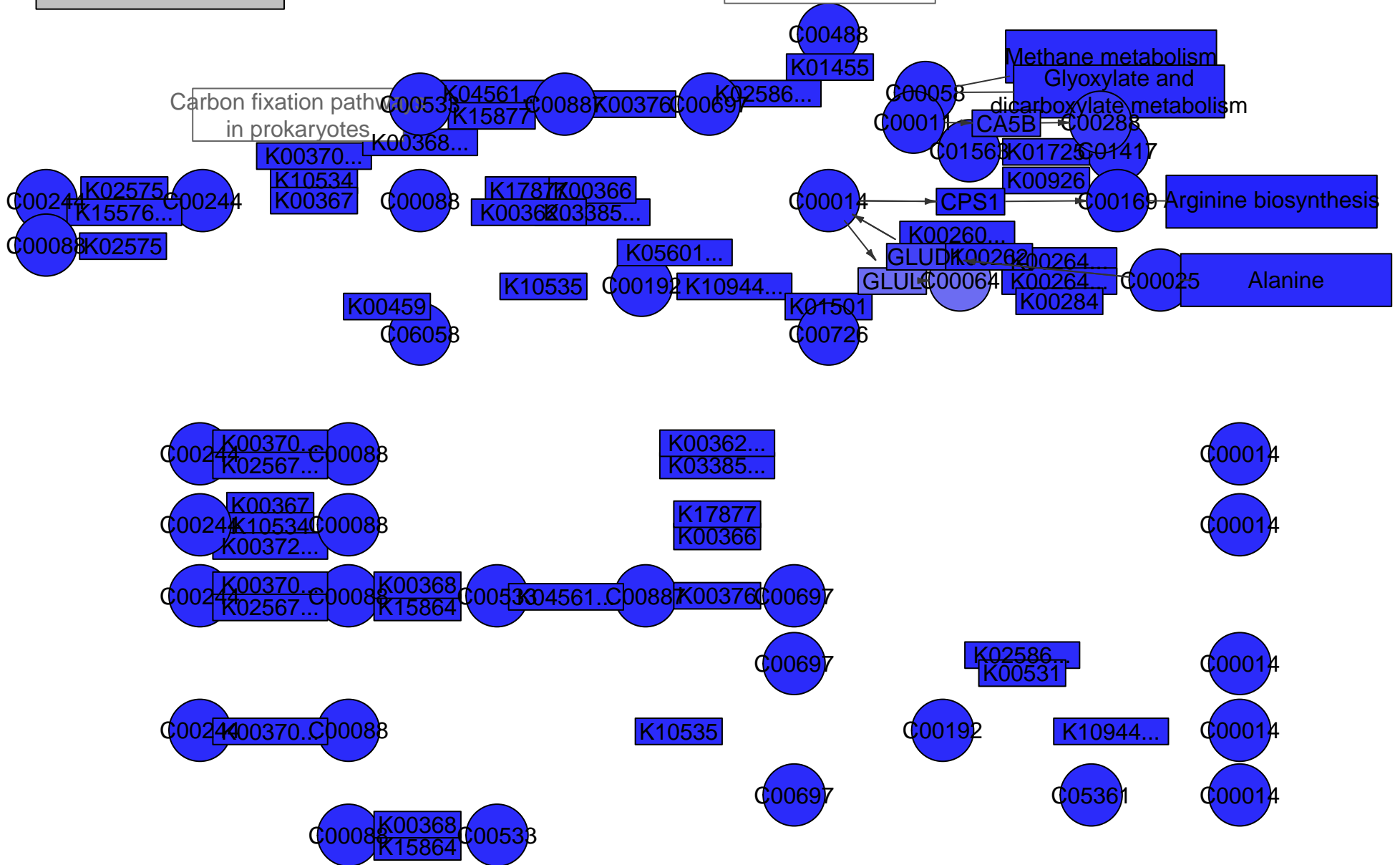
Nitrogen metabolism
MPI-031

Cyanoamino acid
metabolism



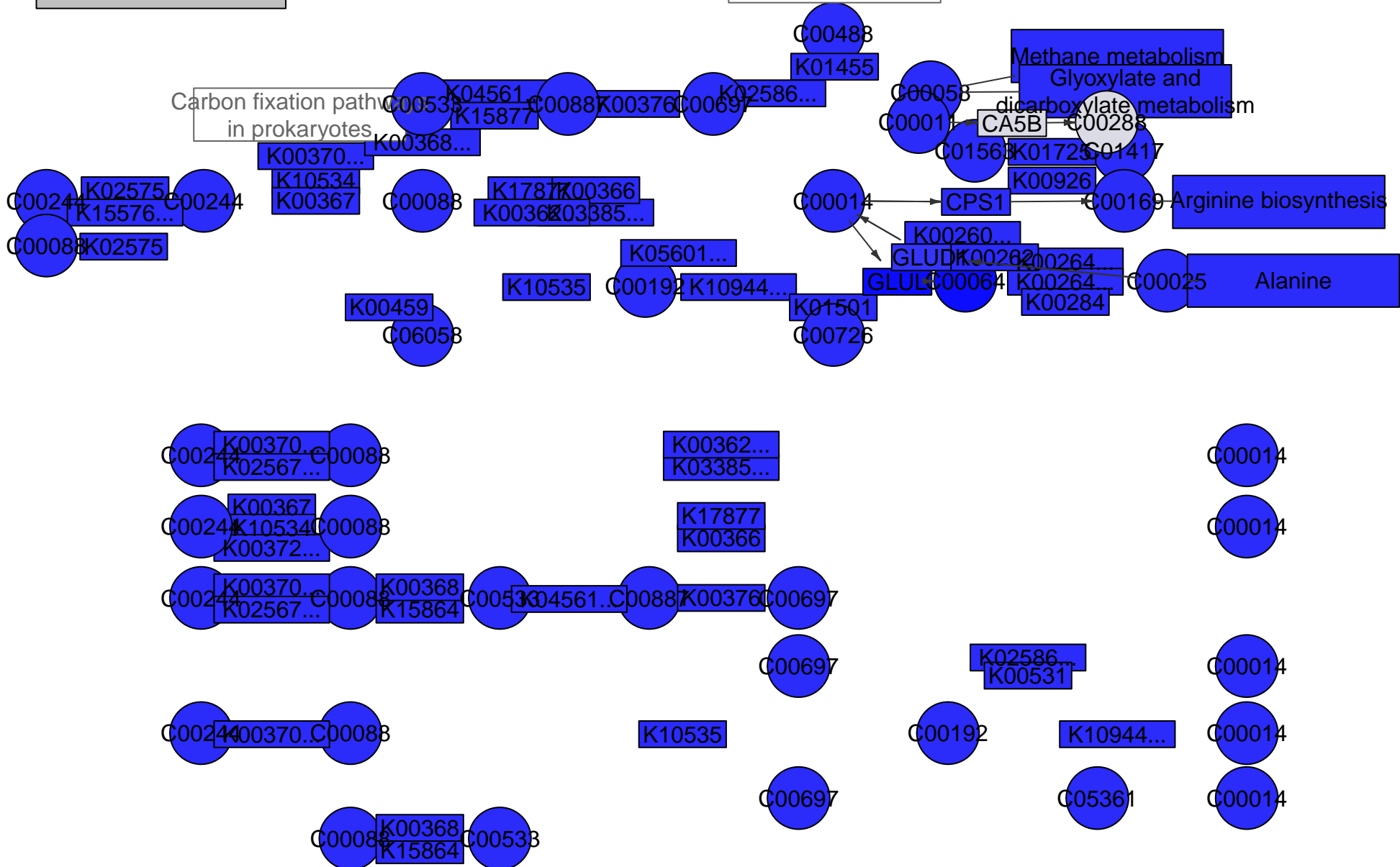
Nitrogen metabolism
MPI-039

Cyanoamino acid
metabolism



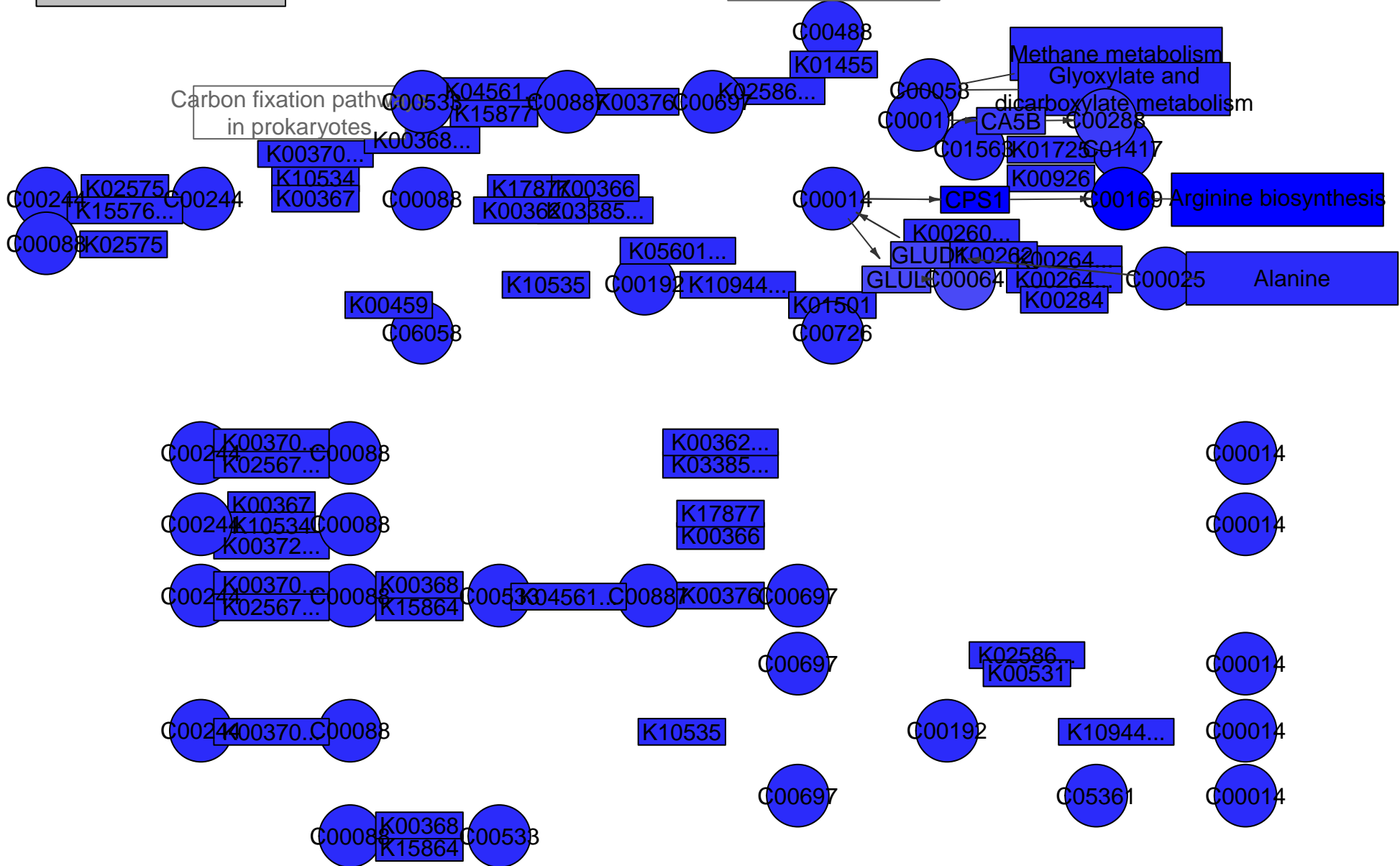
Nitrogen metabolism
MPI-040

Cyanoamino acid
metabolism



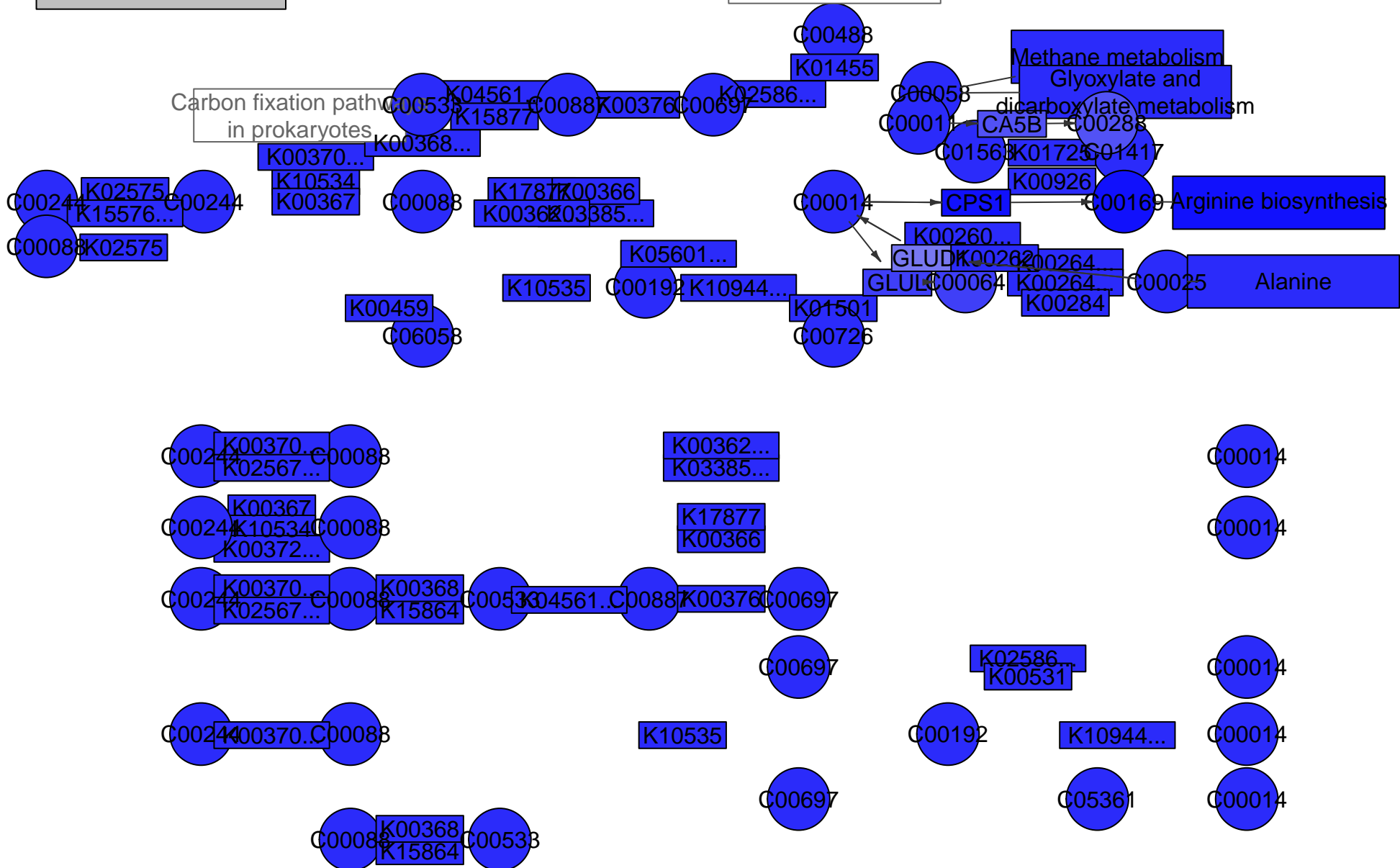
Nitrogen metabolism
MPI-045

Cyanoamino acid
metabolism



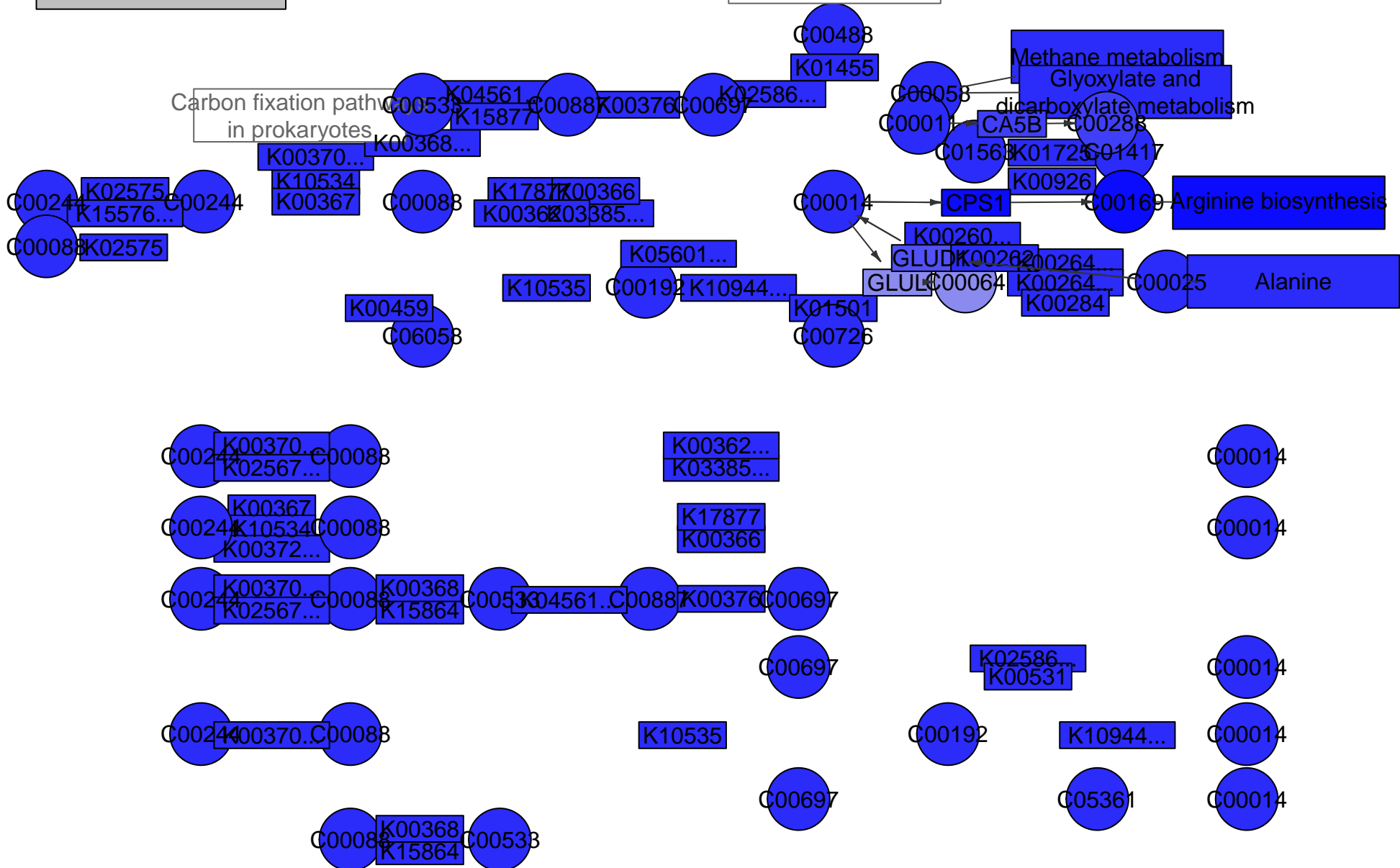
Nitrogen metabolism
MPI-069

Cyanoamino acid
metabolism



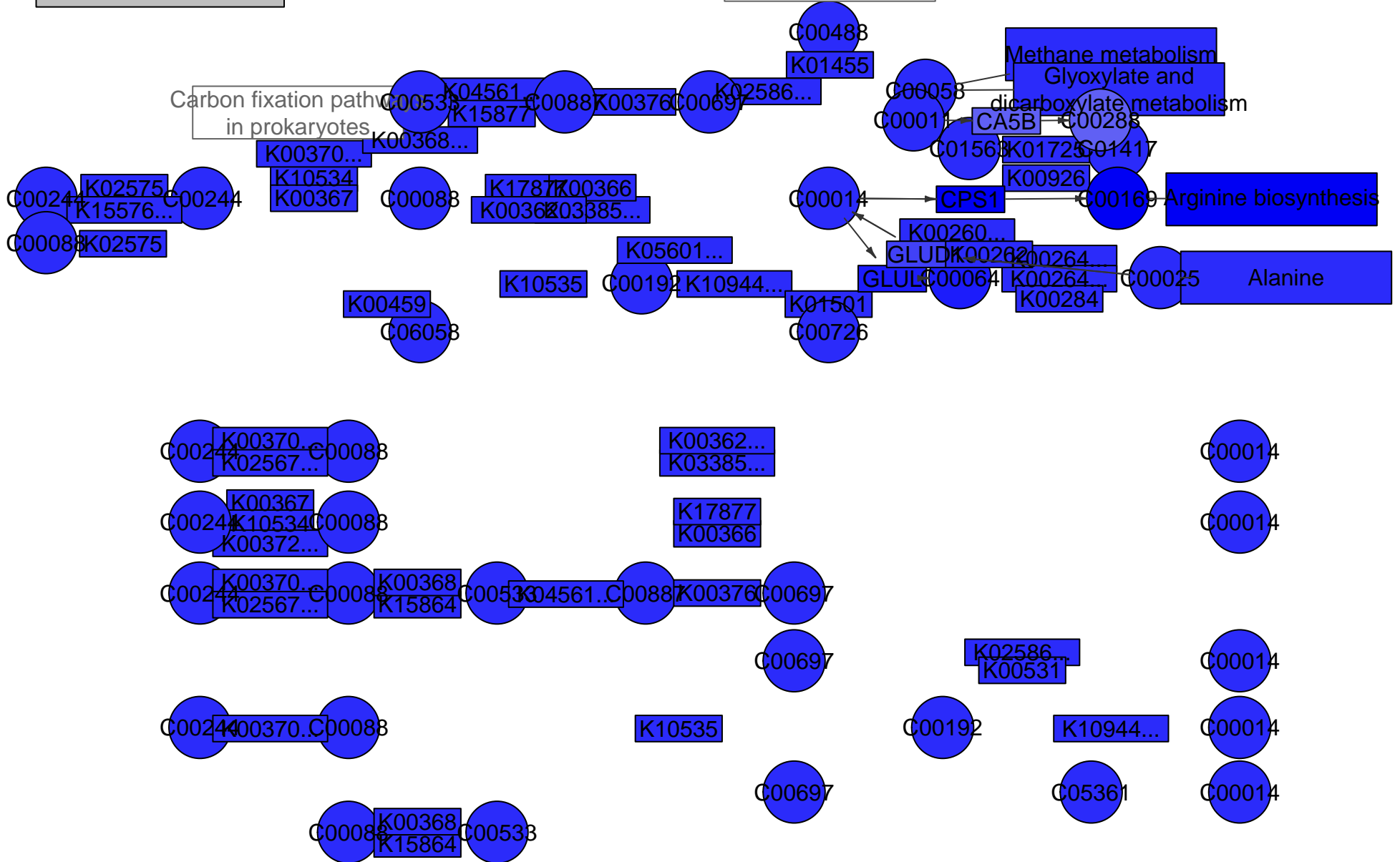
Nitrogen metabolism
MPI-073

Cyanoamino acid
metabolism



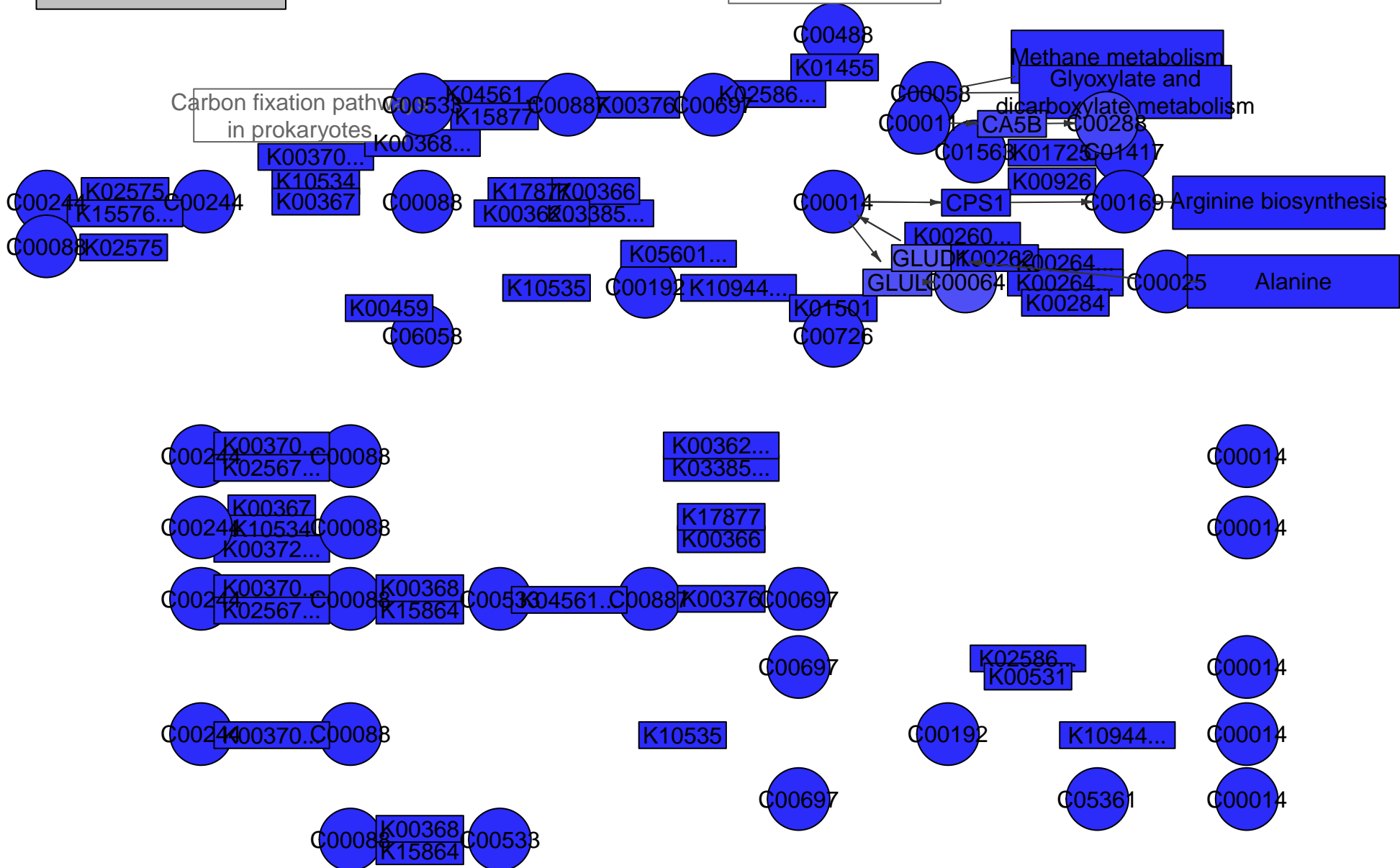
Nitrogen metabolism
MPI-076

Cyanoamino acid
metabolism



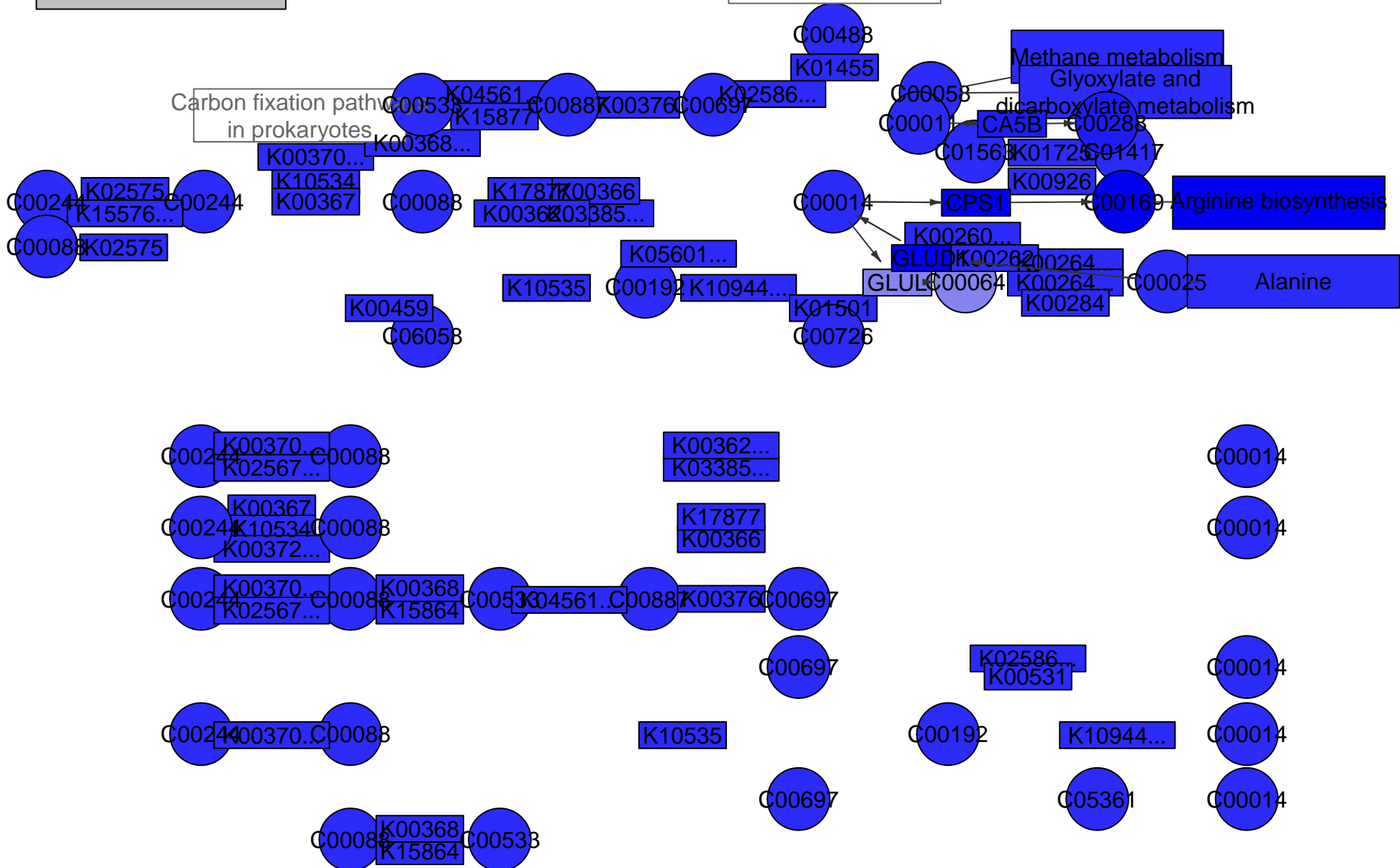
Nitrogen metabolism
MPI-088

Cyanoamino acid
metabolism



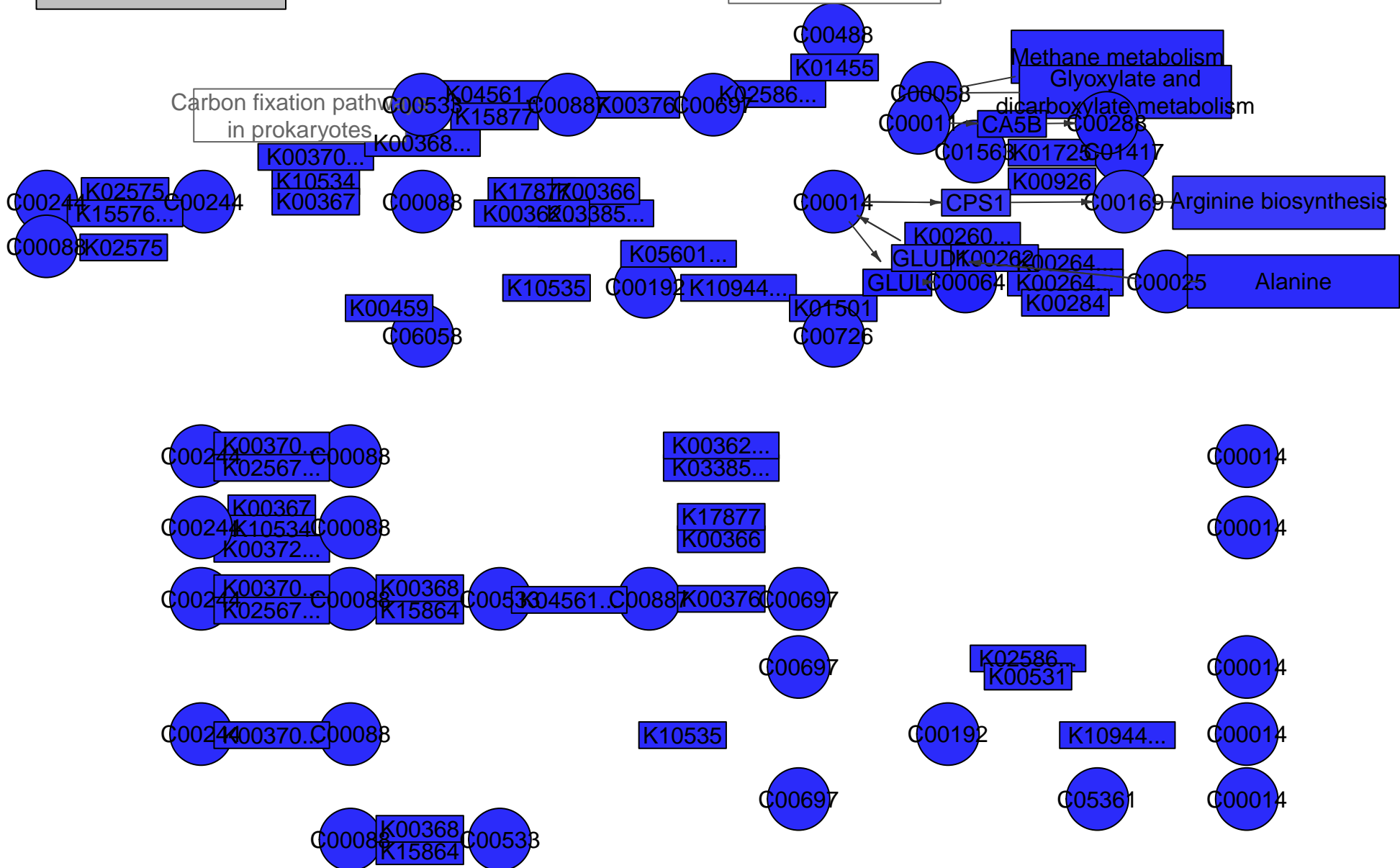
Nitrogen metabolism
MPI-098

Cyanoamino acid
metabolism



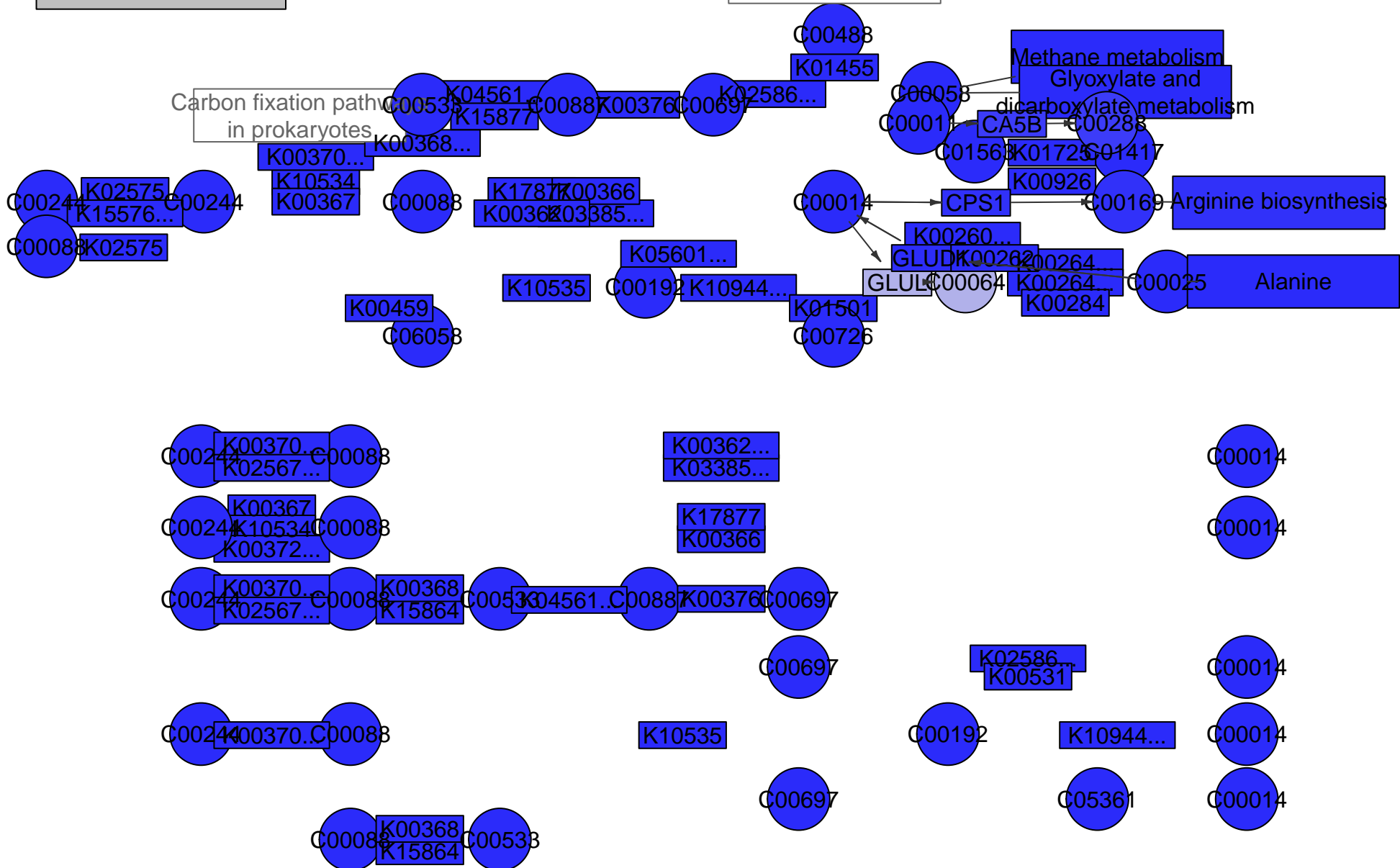
Nitrogen metabolism
MPI-100

Cyanoamino acid
metabolism



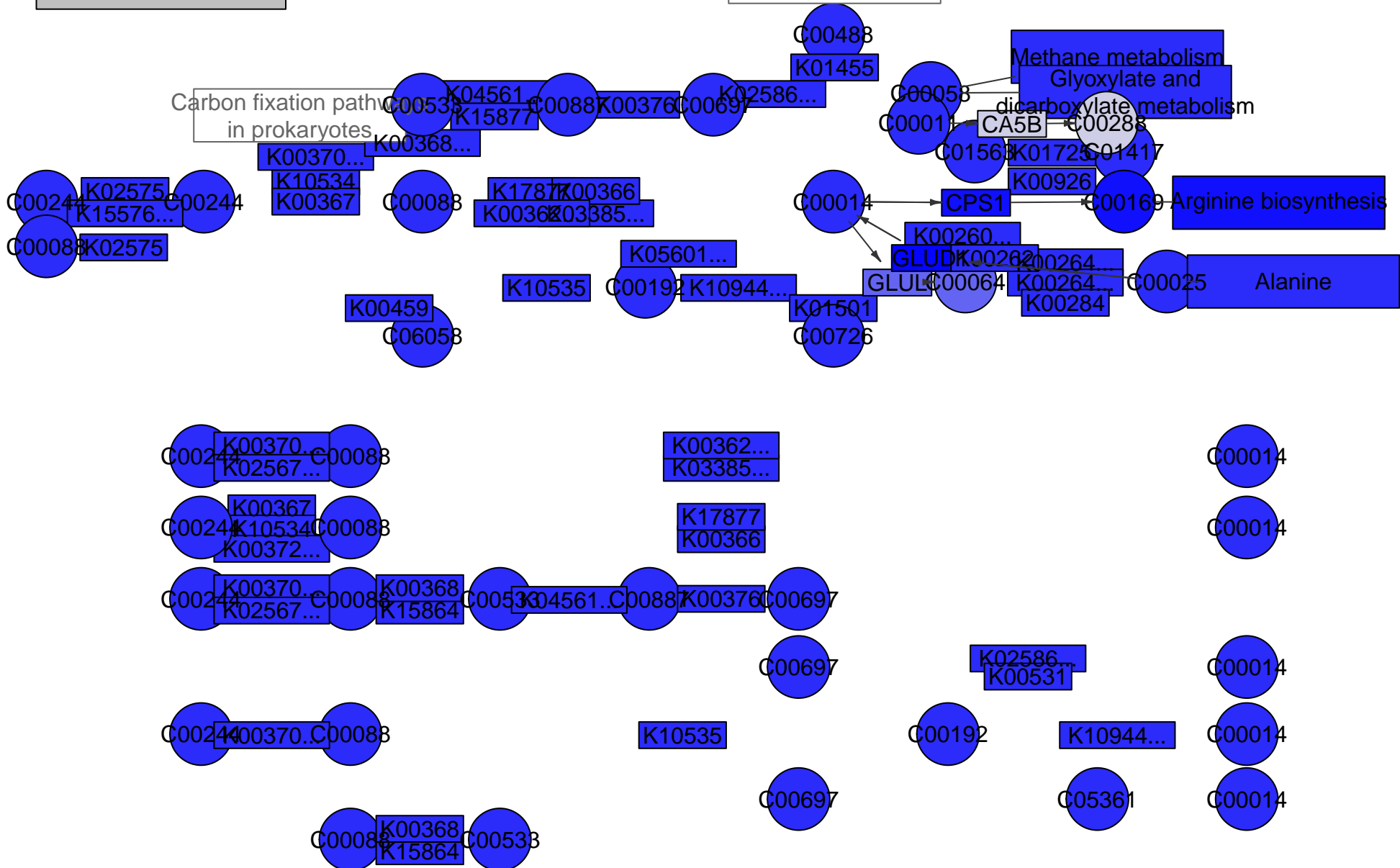
Nitrogen metabolism
MPI-108

Cyanoamino acid
metabolism



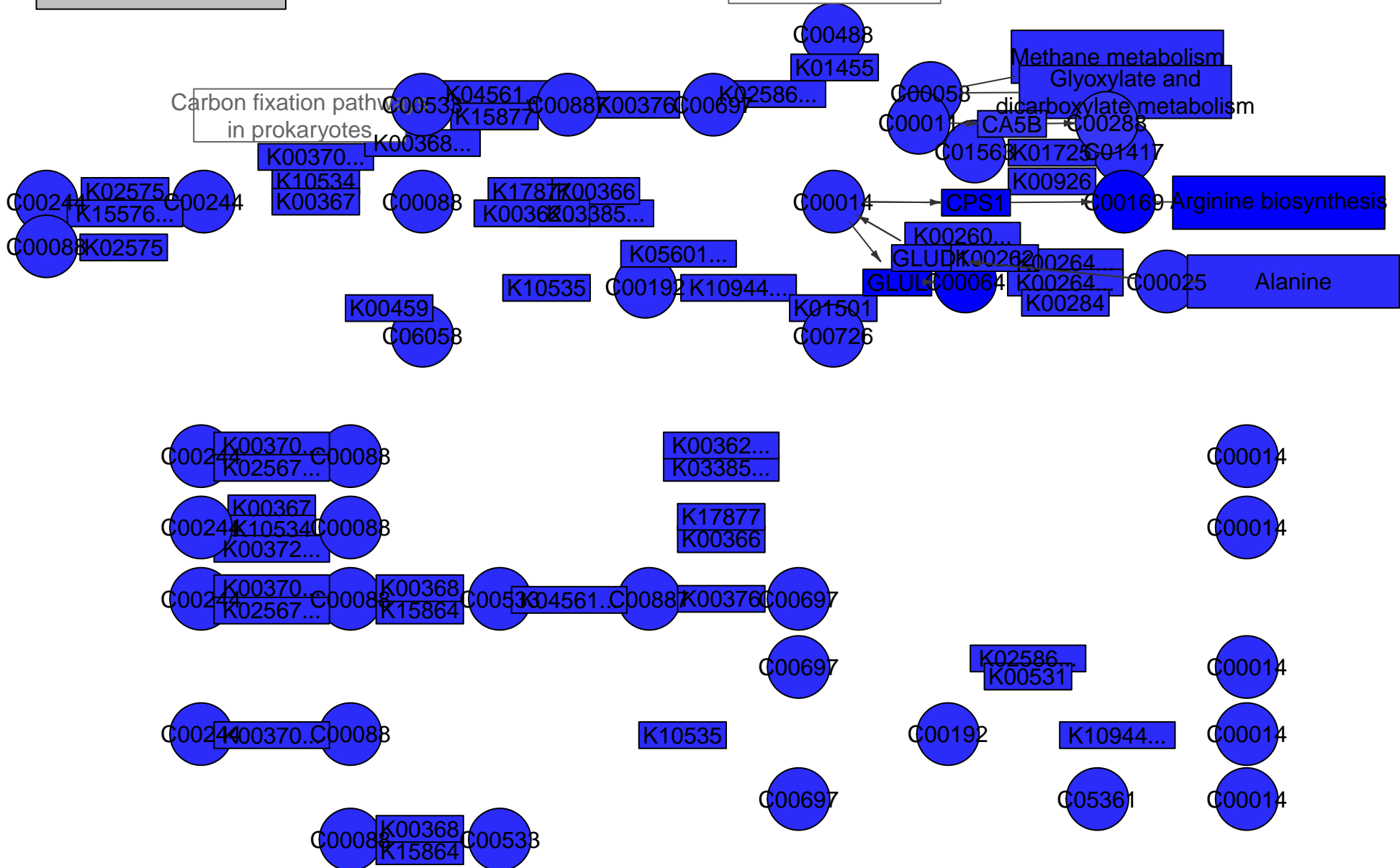
Nitrogen metabolism
MPI-109

Cyanoamino acid
metabolism



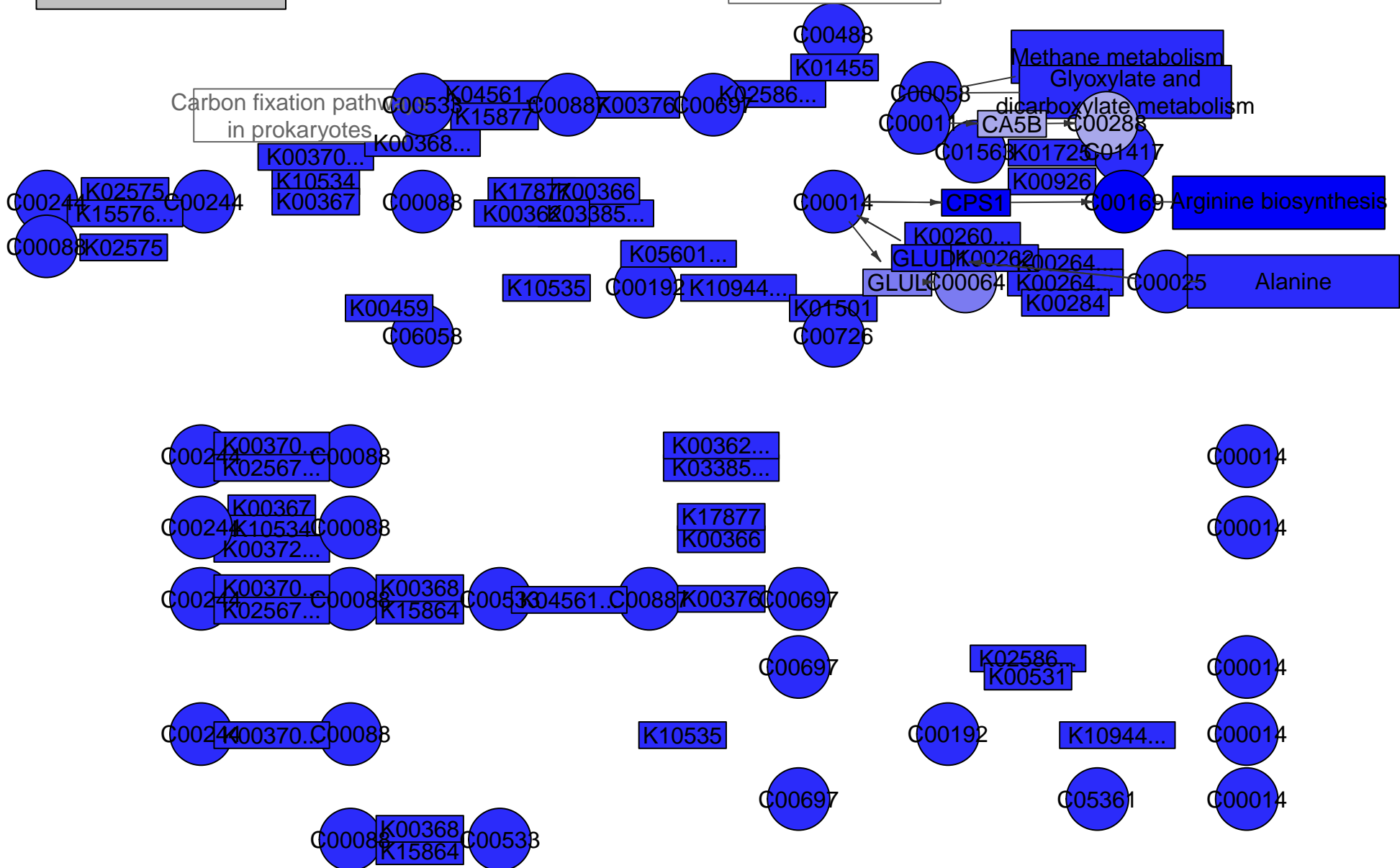
Nitrogen metabolism
MPI-110

Cyanoamino acid
metabolism



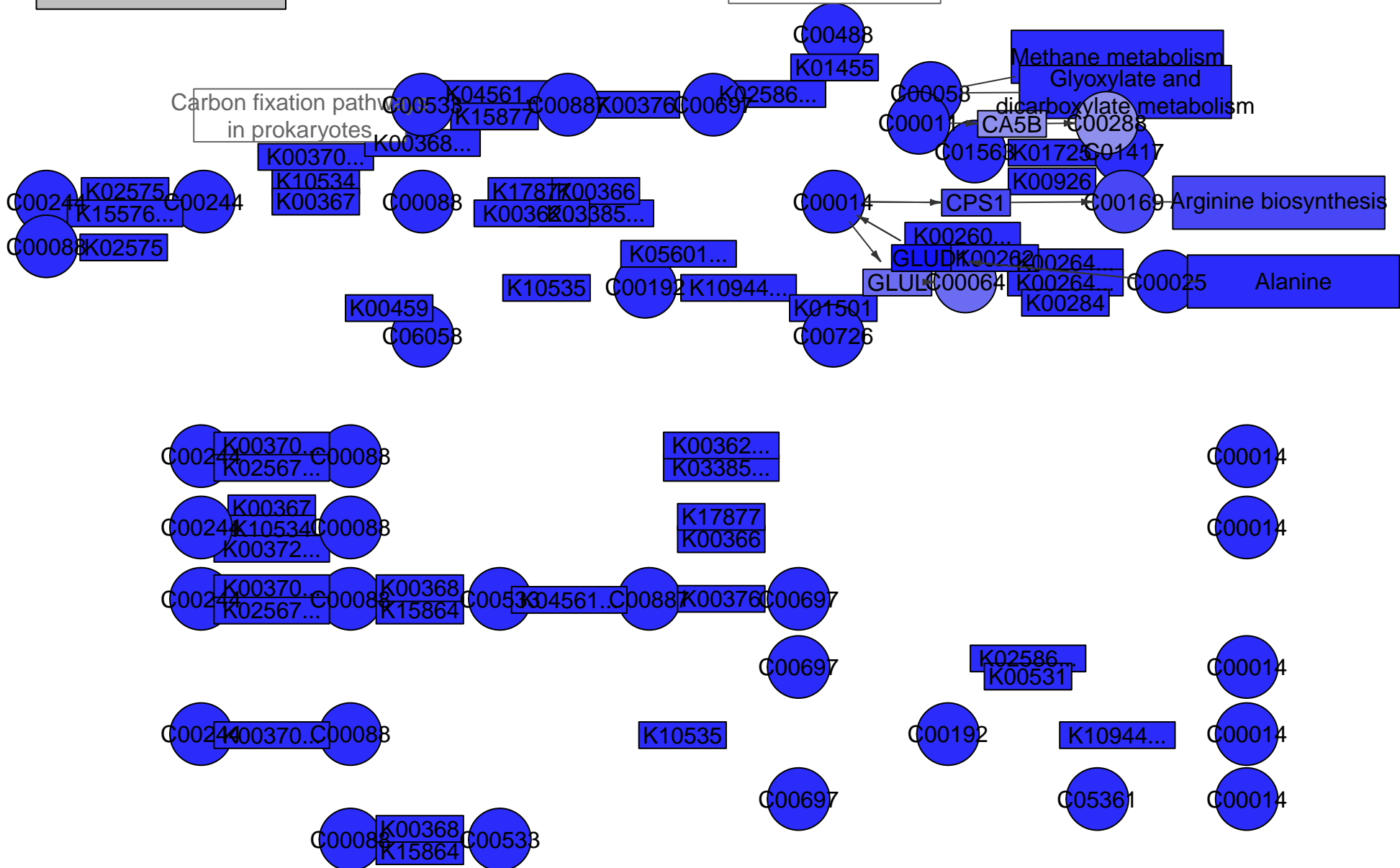
Nitrogen metabolism
MPI-111

Cyanoamino acid
metabolism



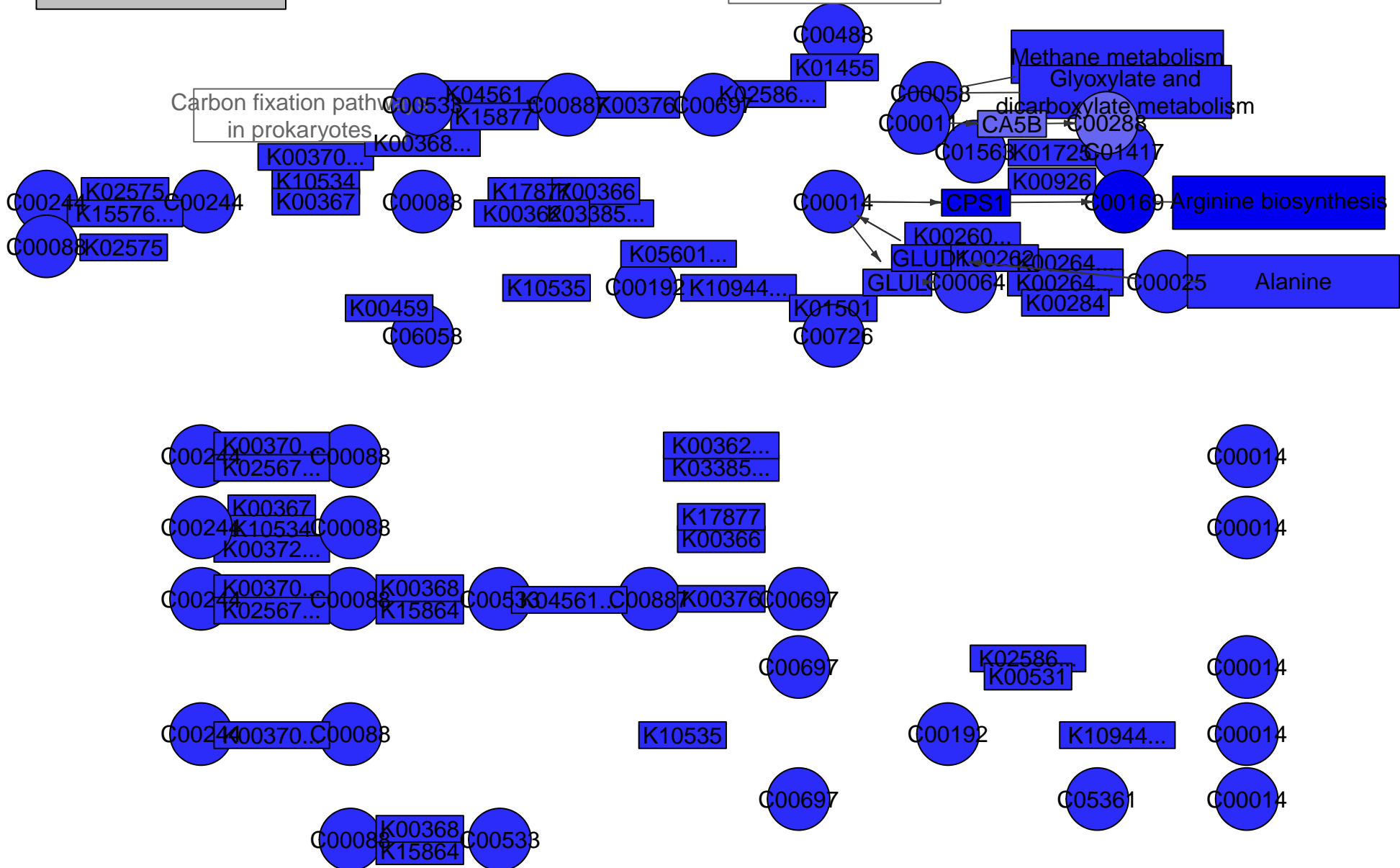
Nitrogen metabolism
MPI-113

Cyanoamino acid
metabolism



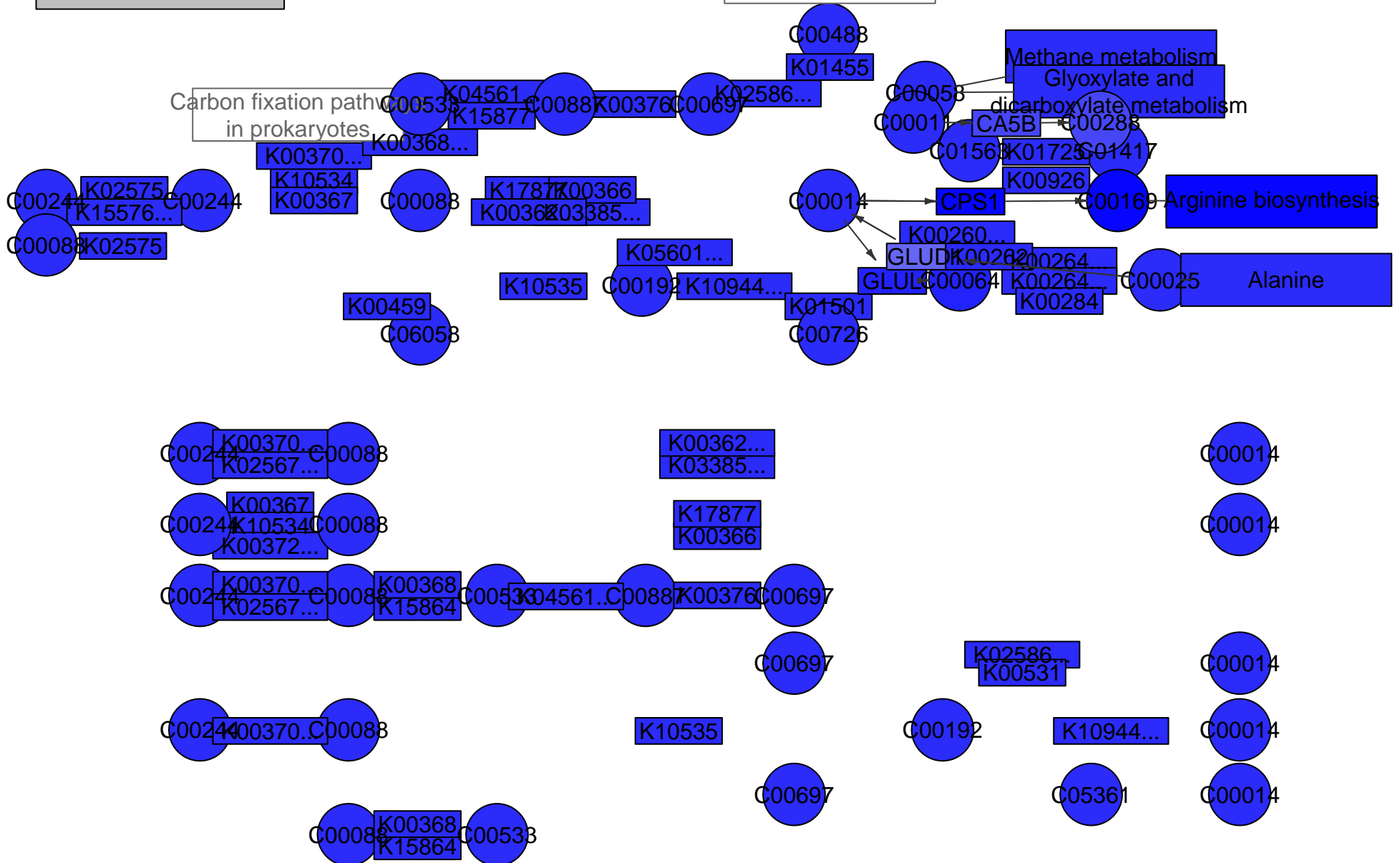
Nitrogen metabolism
MPI-118

Cyanoamino acid
metabolism



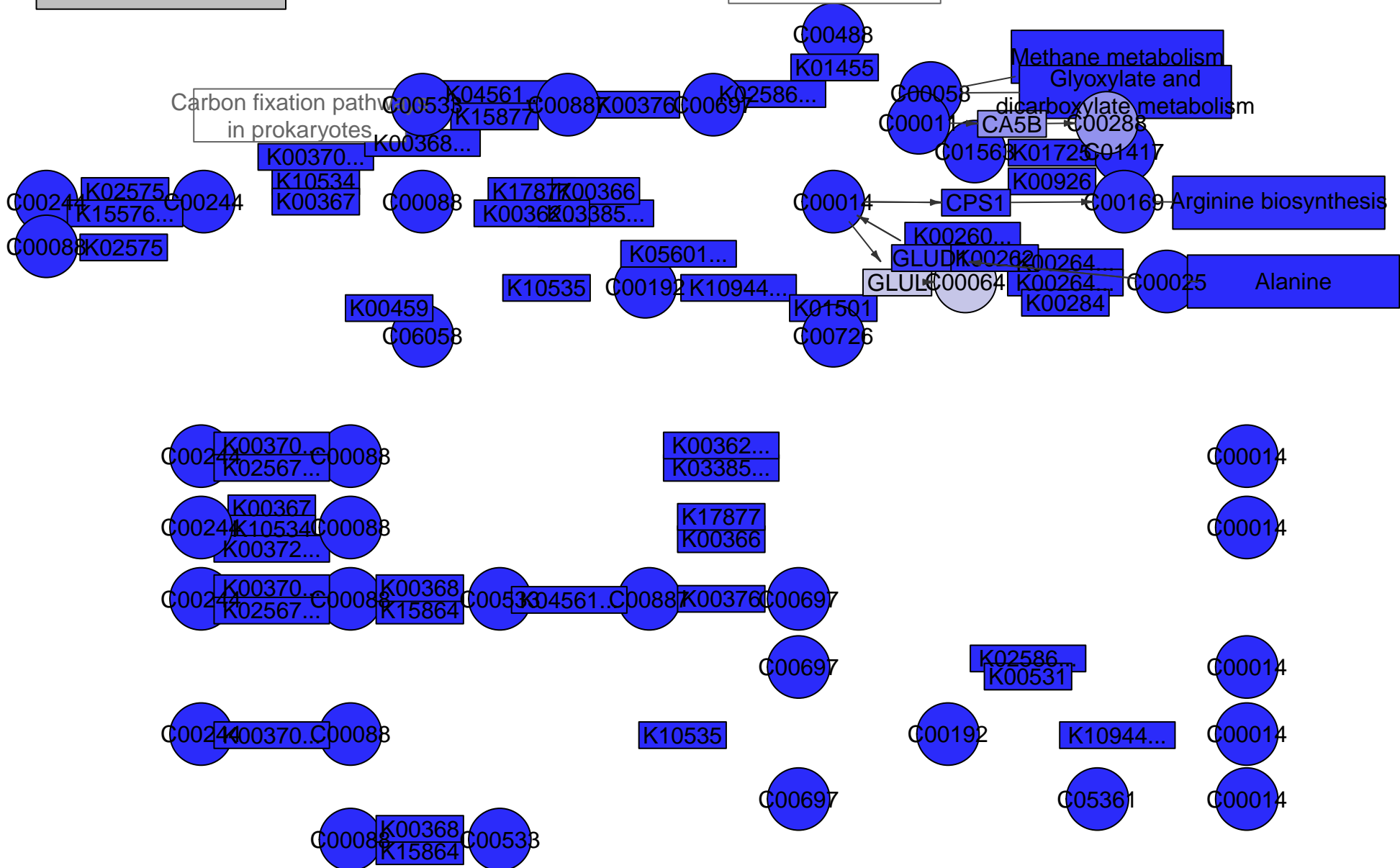
Nitrogen metabolism
MPI-122

Cyanoamino acid
metabolism



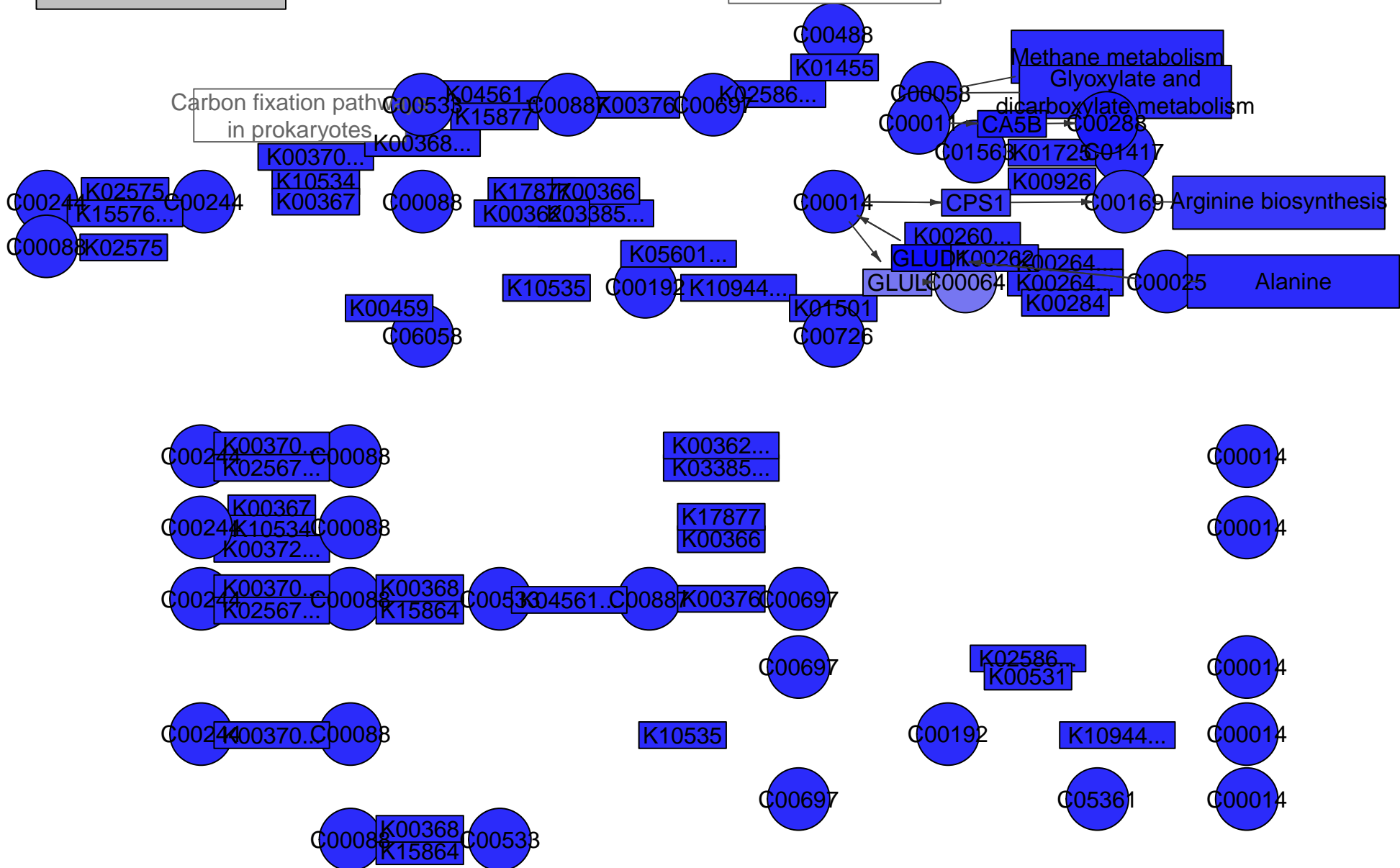
Nitrogen metabolism
MPI-129

Cyanoamino acid
metabolism



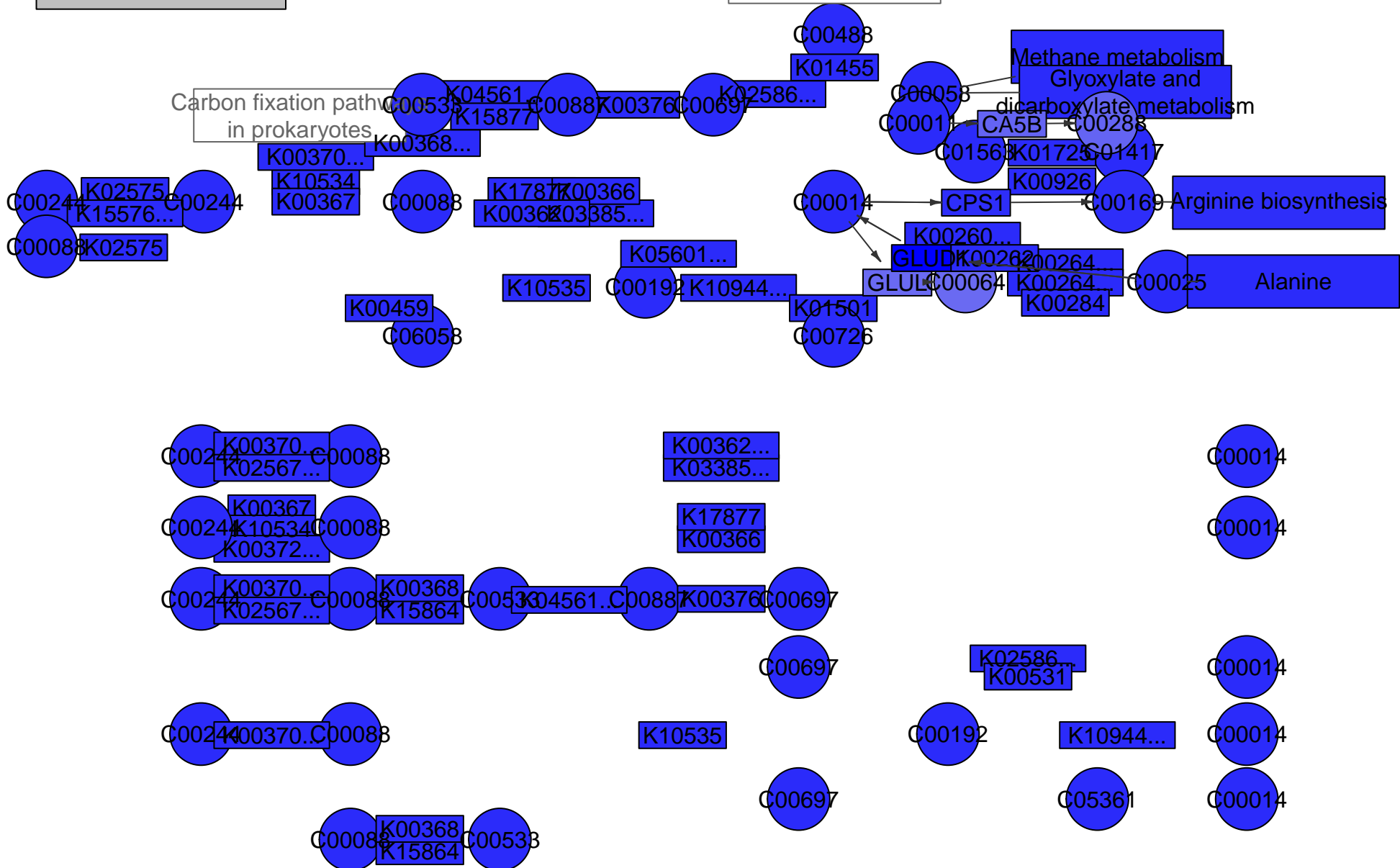
Nitrogen metabolism
MPI-135

Cyanoamino acid
metabolism



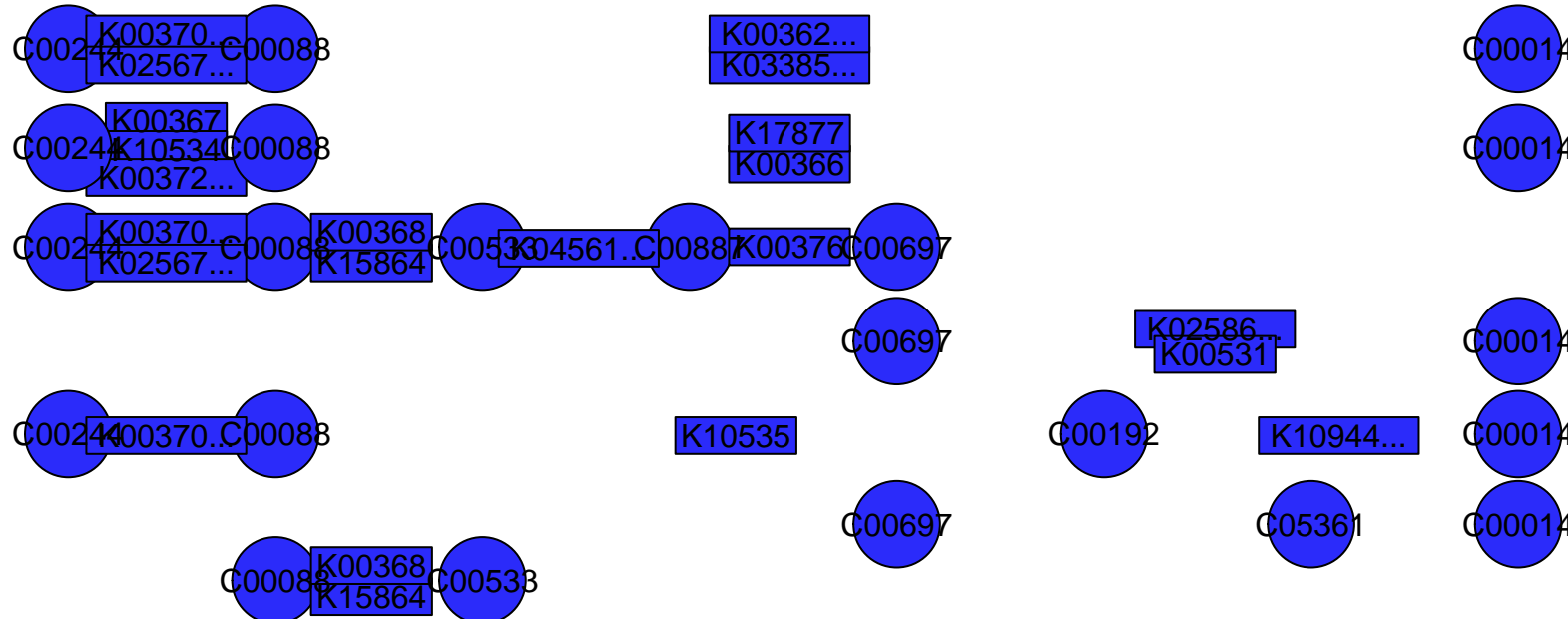
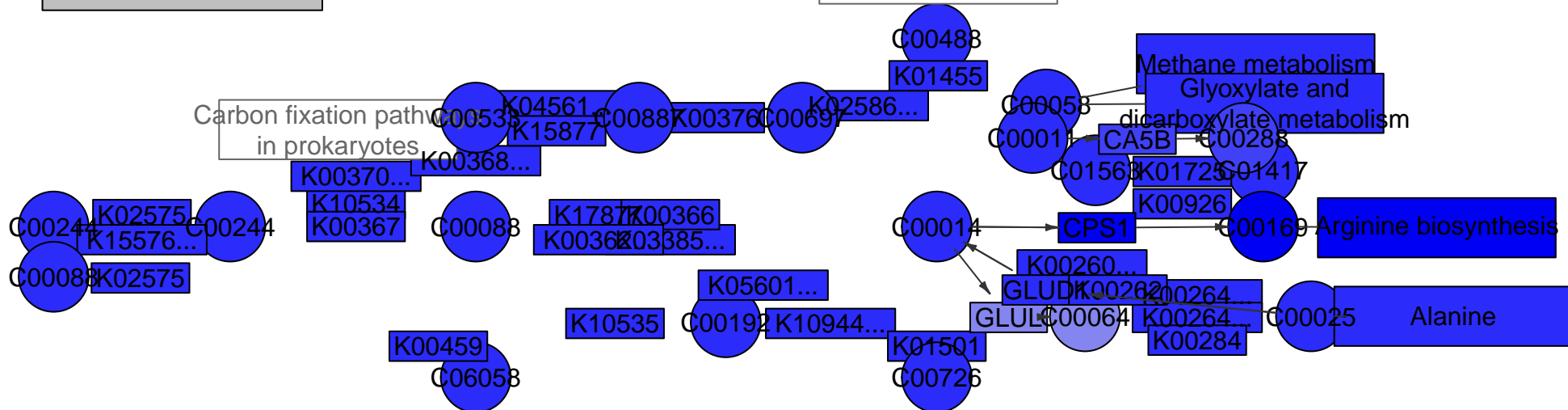
Nitrogen metabolism
MPI-136

Cyanoamino acid
metabolism



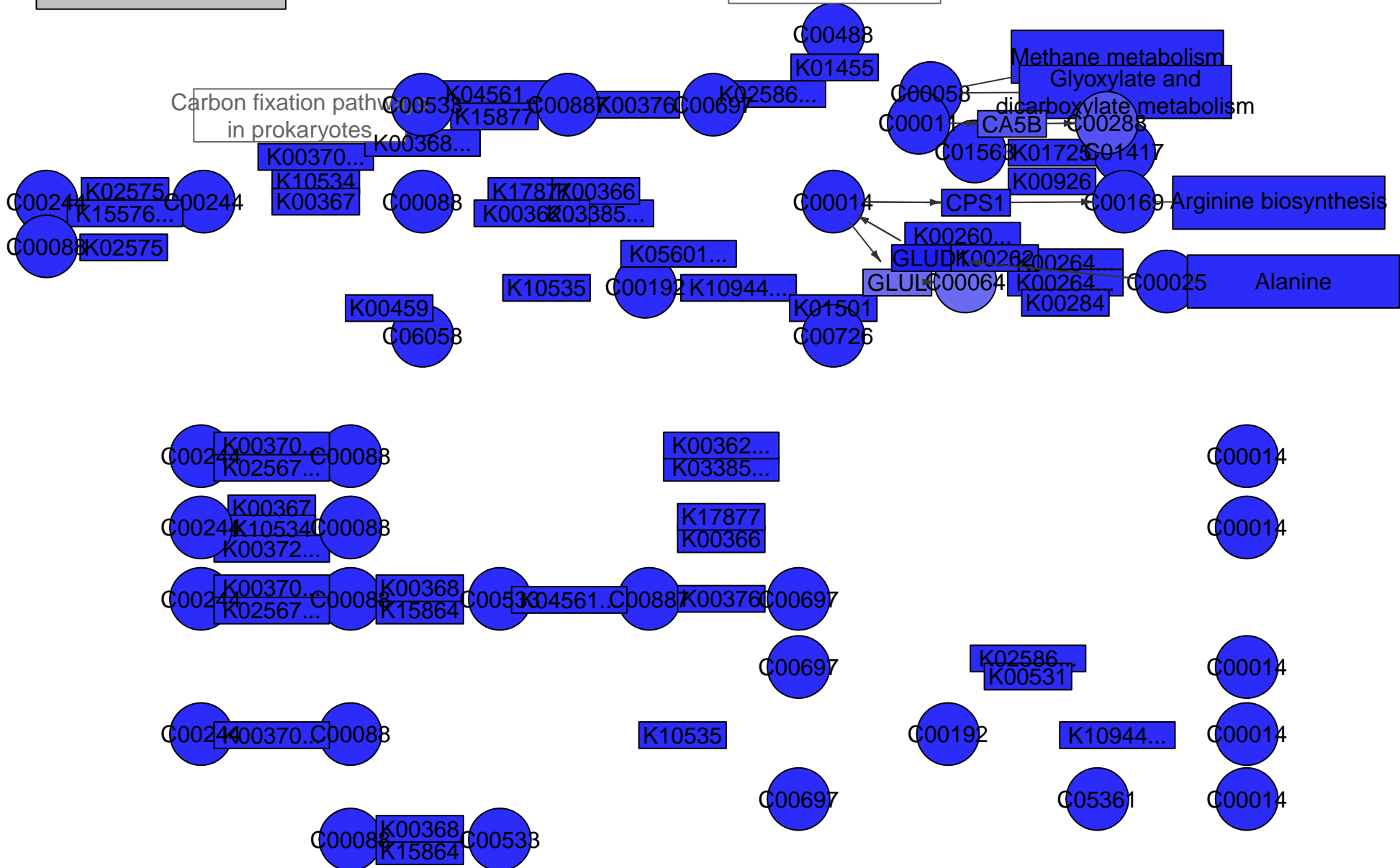
Nitrogen metabolism
MPI-145

Cyanoamino acid
metabolism



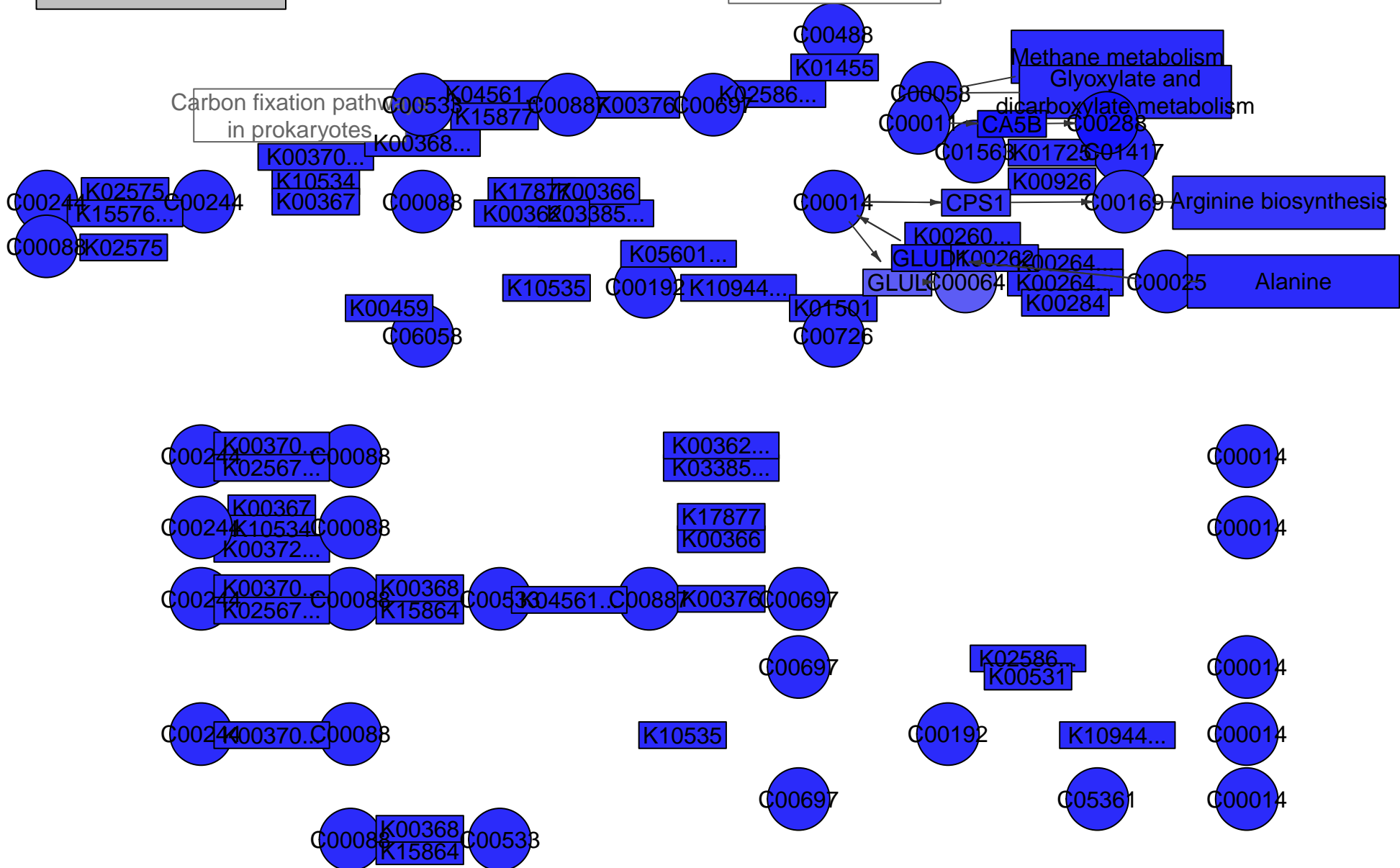
Nitrogen metabolism
MPI-146

Cyanoamino acid
metabolism



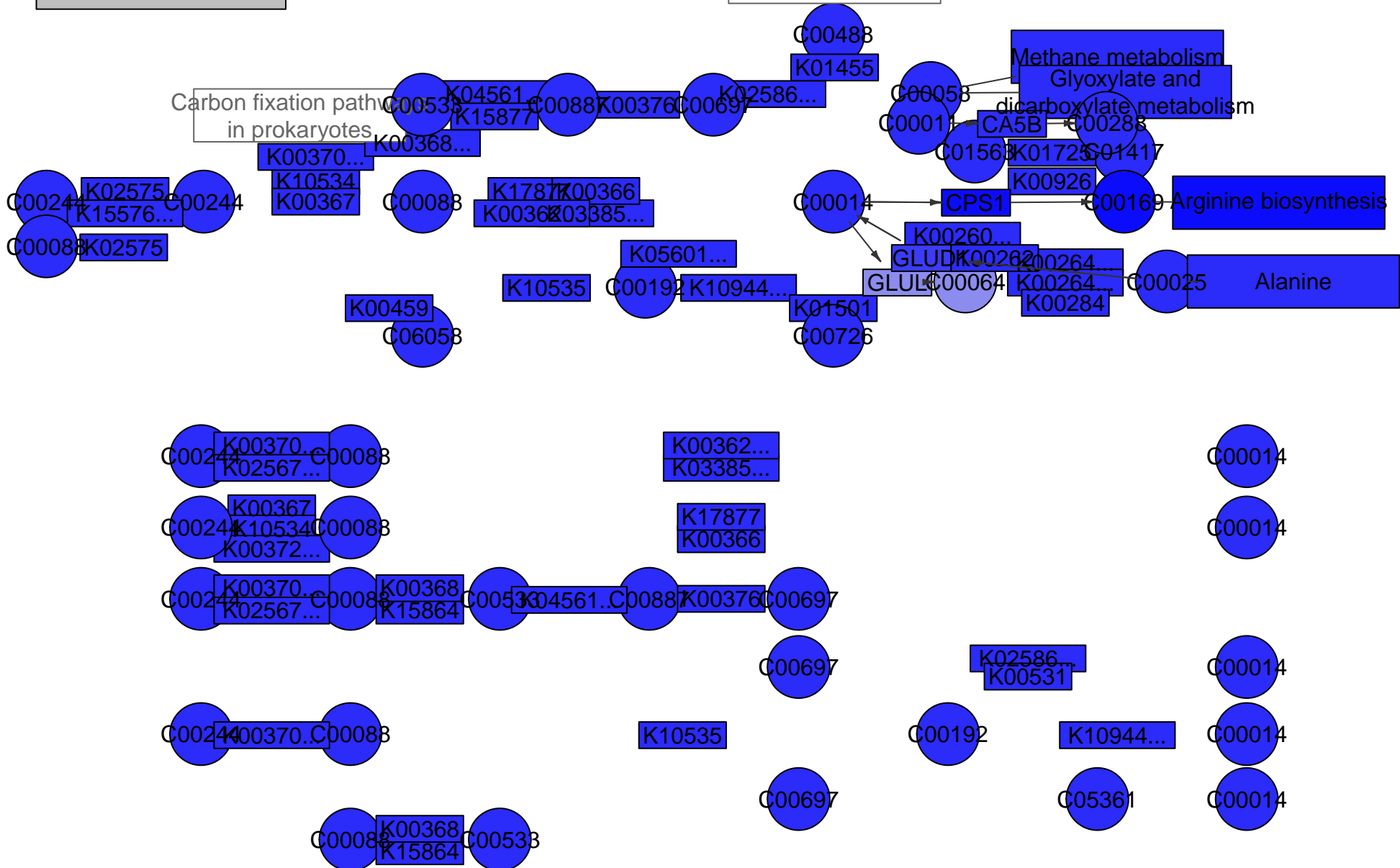
Nitrogen metabolism
MPI-151

Cyanoamino acid
metabolism



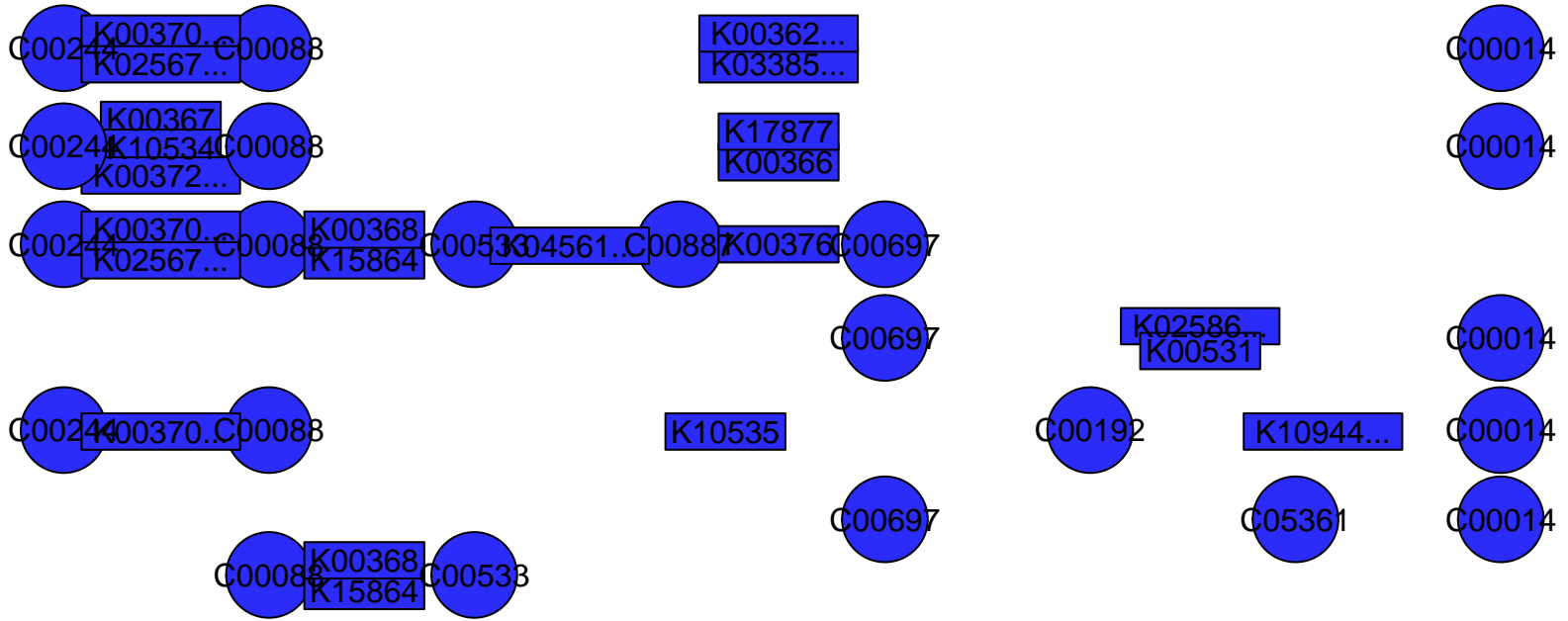
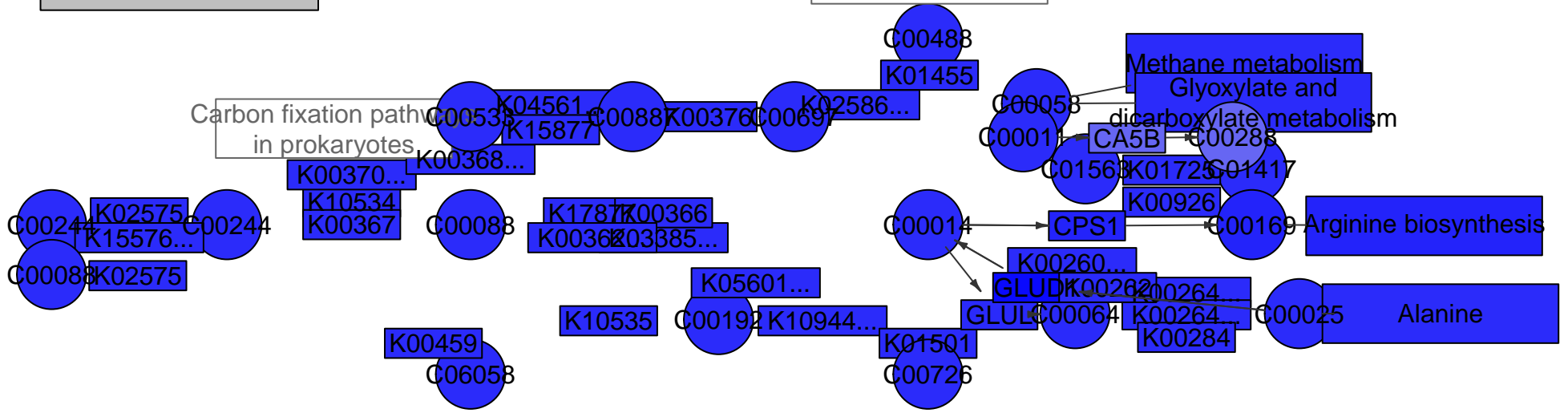
Nitrogen metabolism
MPI-152

Cyanoamino acid
metabolism



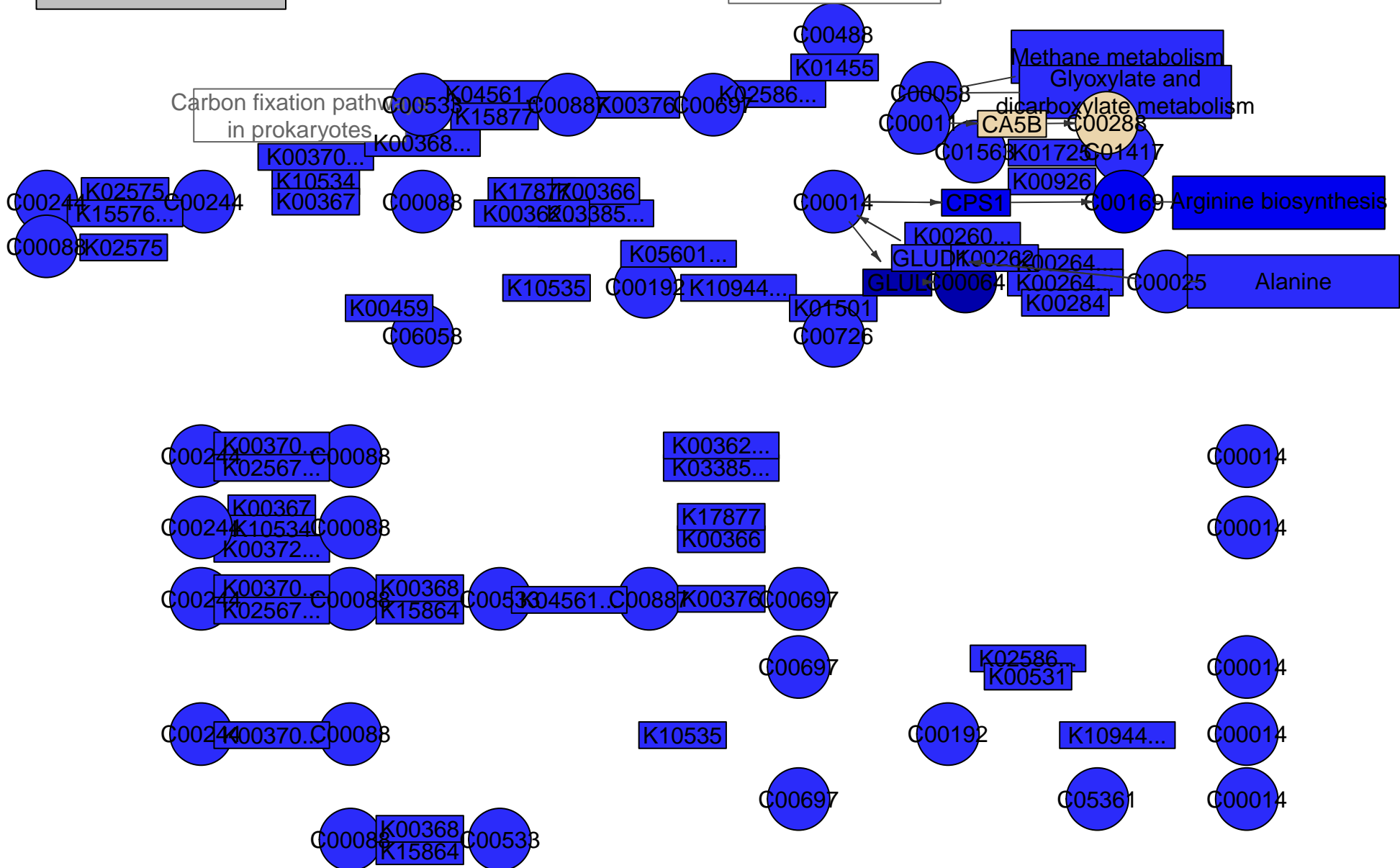
Nitrogen metabolism
MPI-153

Cyanoamino acid
metabolism



Nitrogen metabolism
MPI-154

Cyanoamino acid
metabolism



Nitrogen metabolism MPI-155

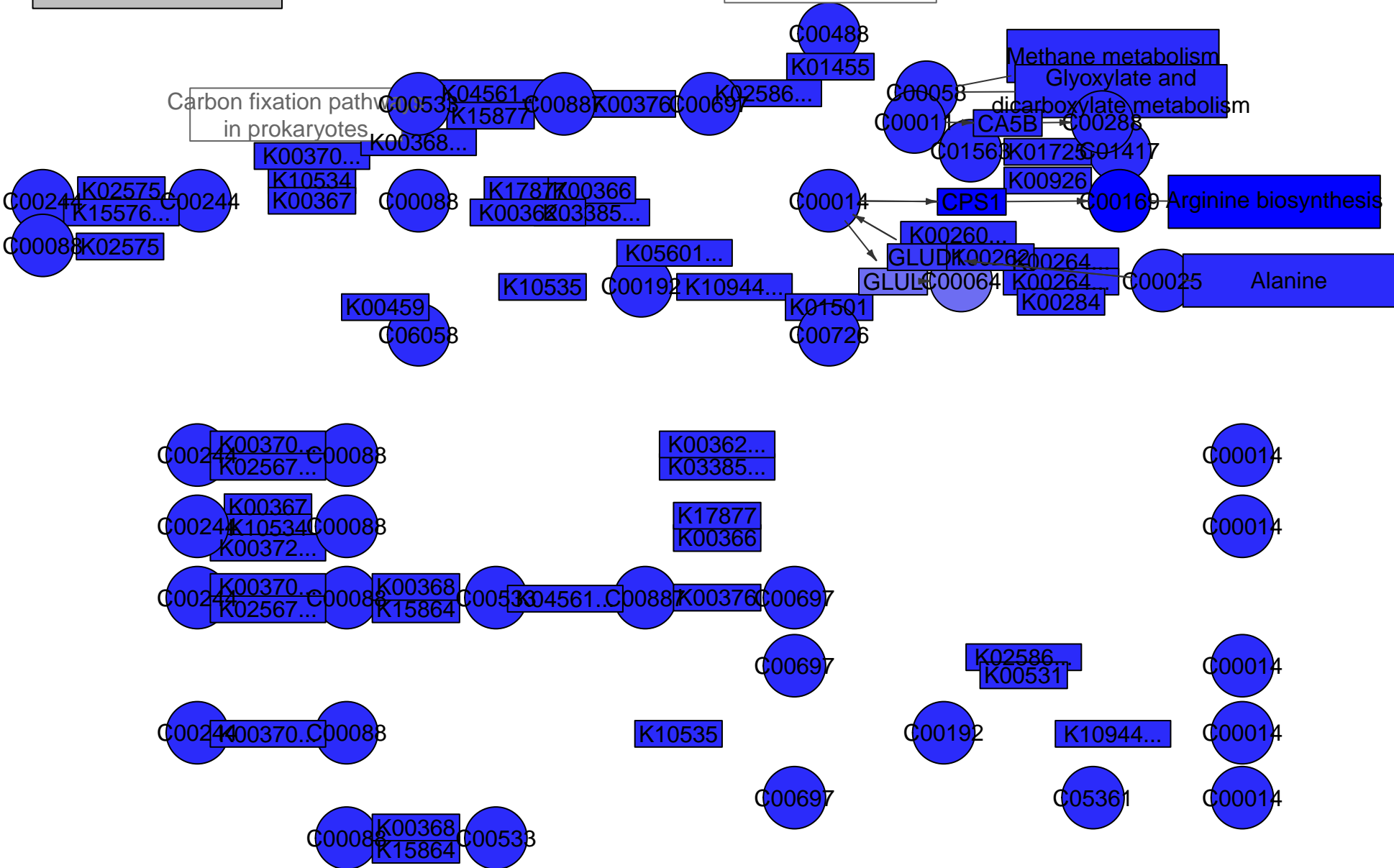
Cyanoamino acid metabolism

Carbon fixation pathway in prokaryotes

Methane metabolism Glyoxylate and dicarboxylate metabolism

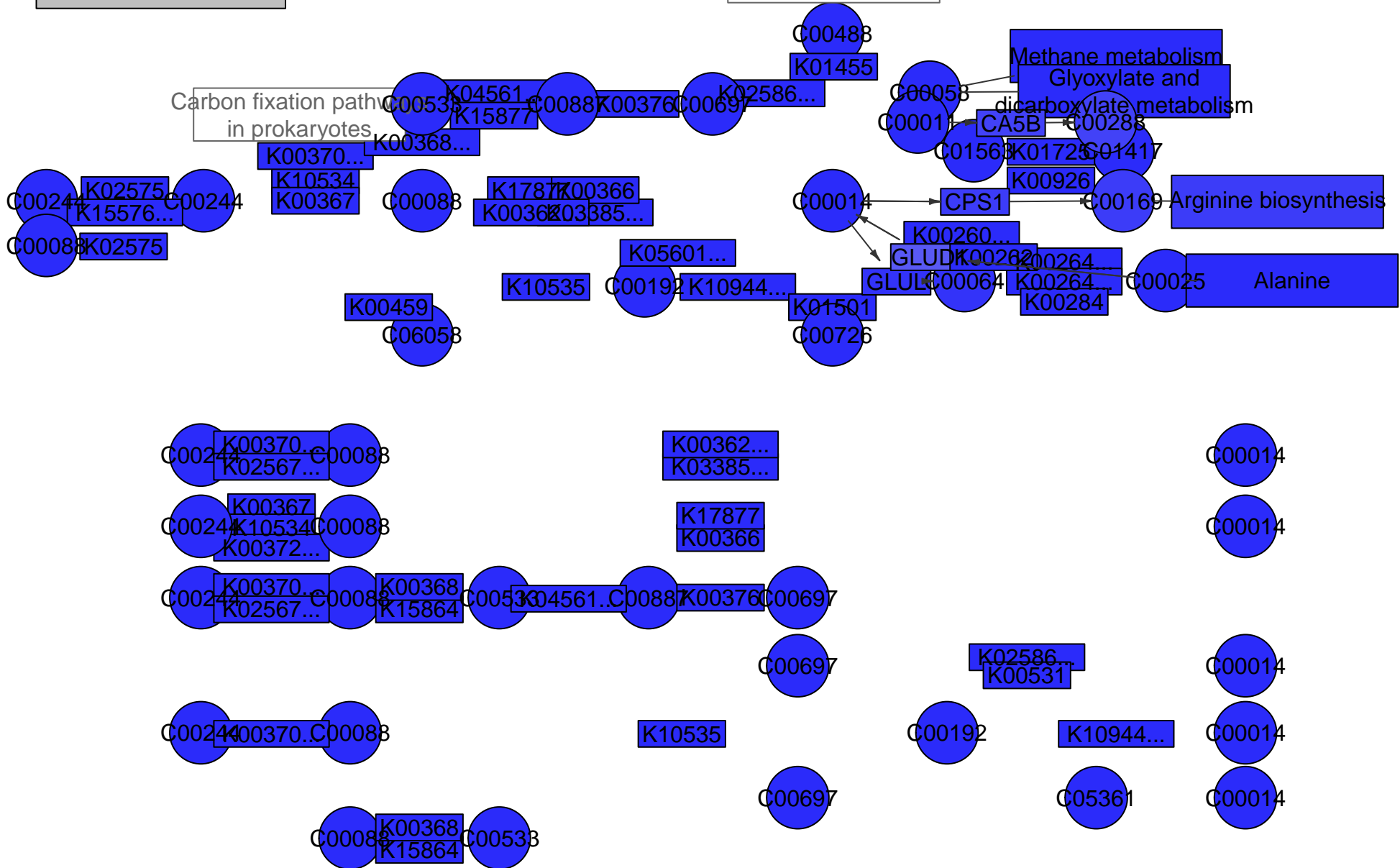
Arginine biosynthesis

Alanine



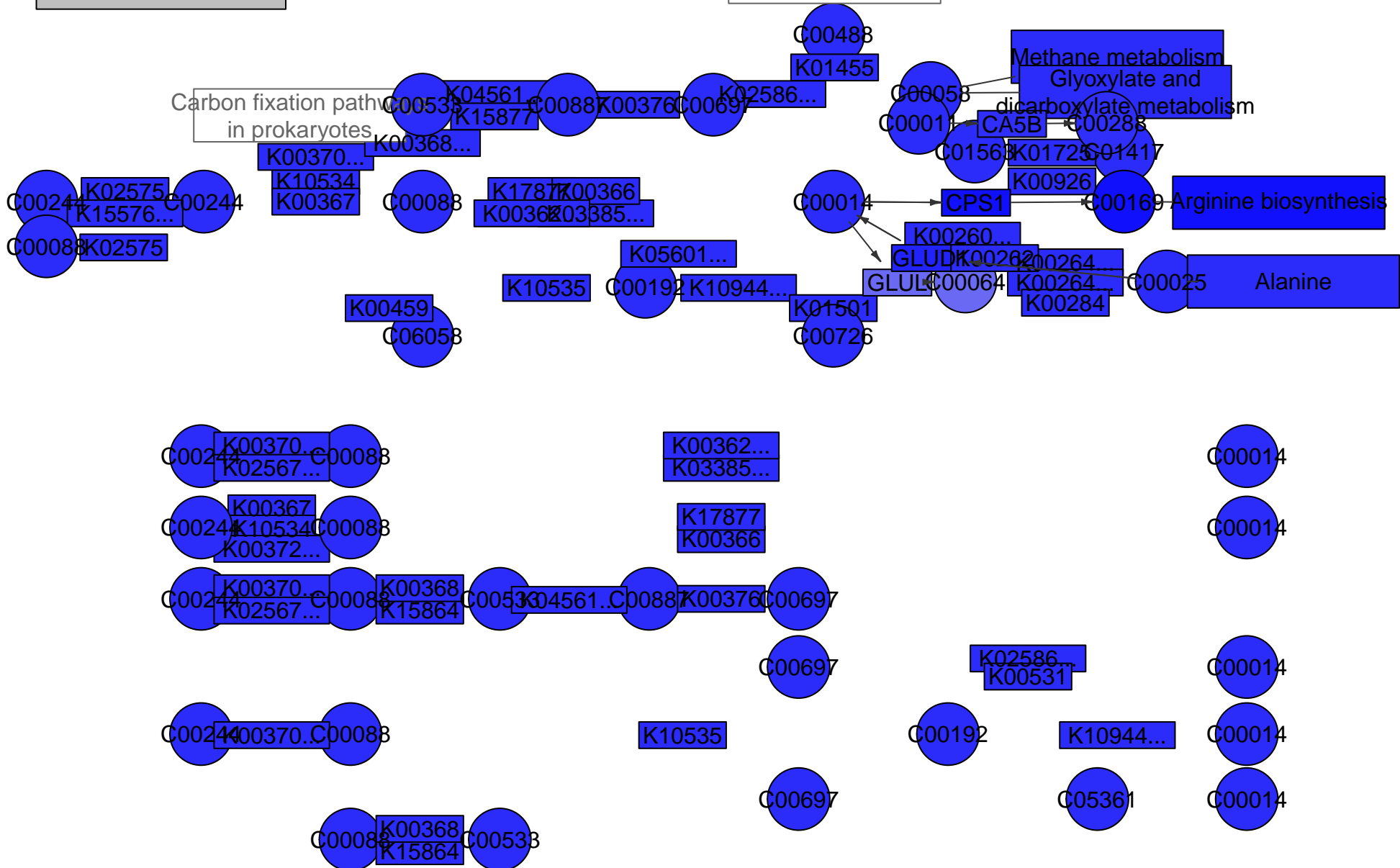
Nitrogen metabolism
MPI-159

Cyanoamino acid
metabolism



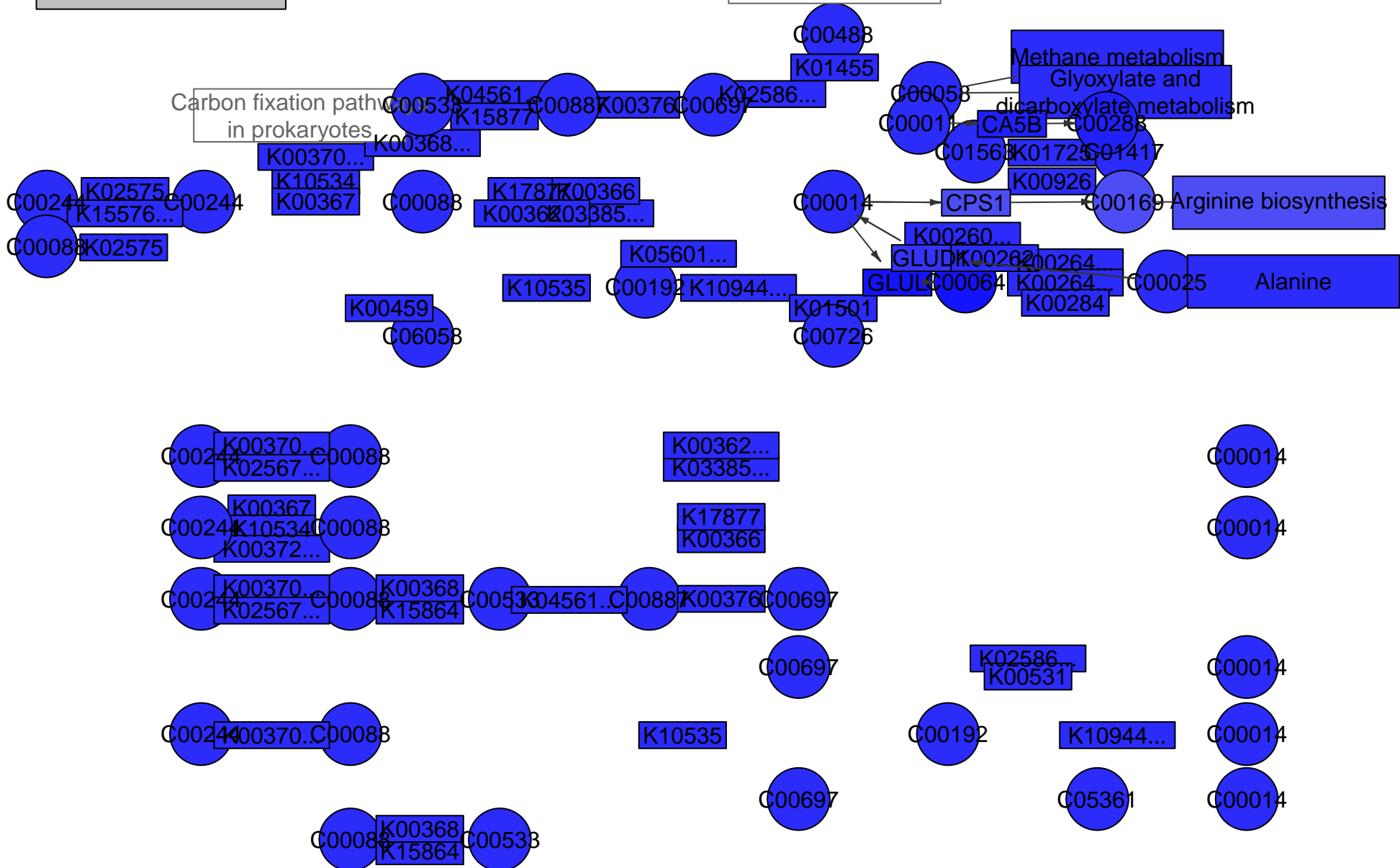
Nitrogen metabolism
MPI-163

Cyanoamino acid
metabolism



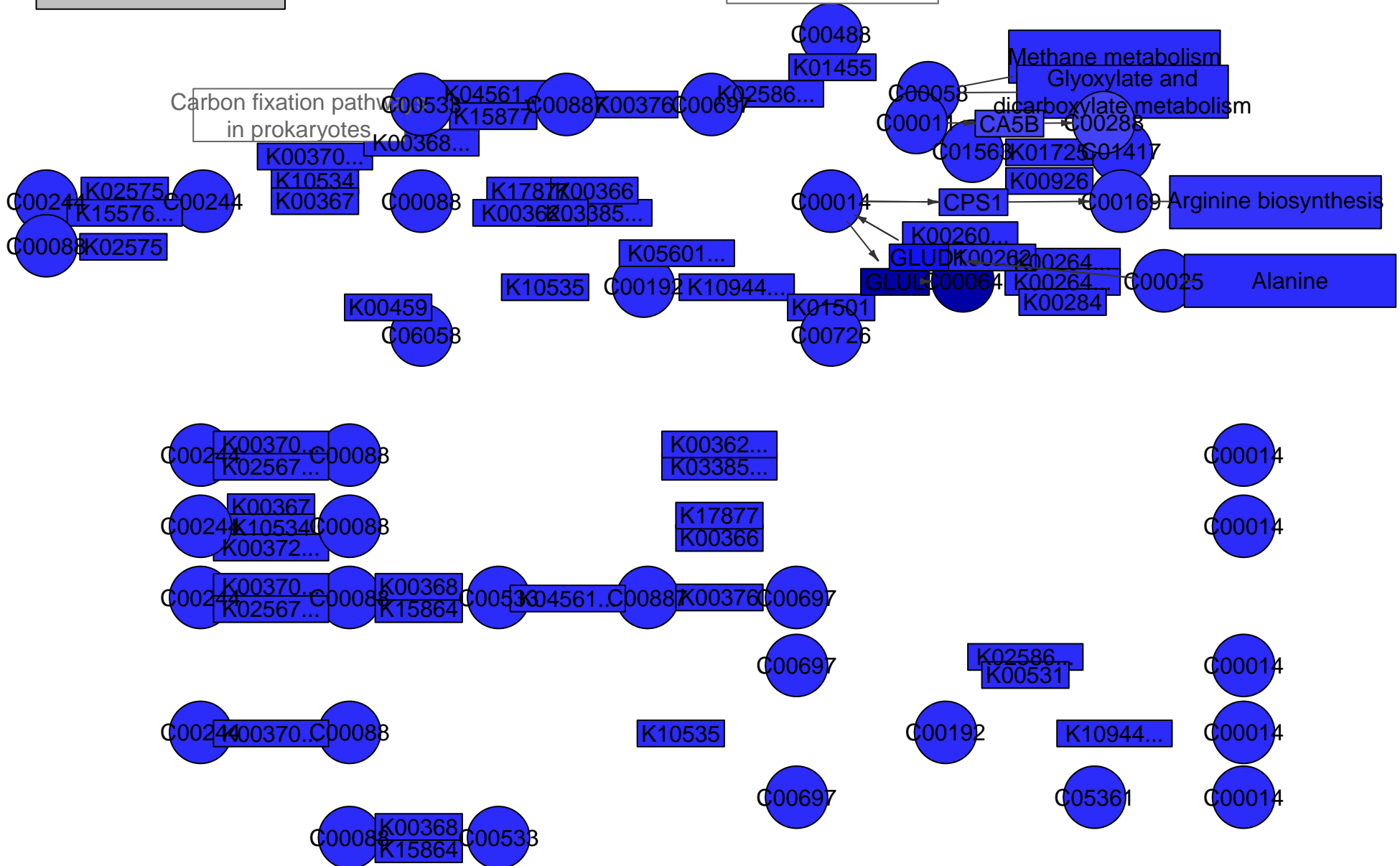
Nitrogen metabolism
MPI-164

Cyanoamino acid
metabolism



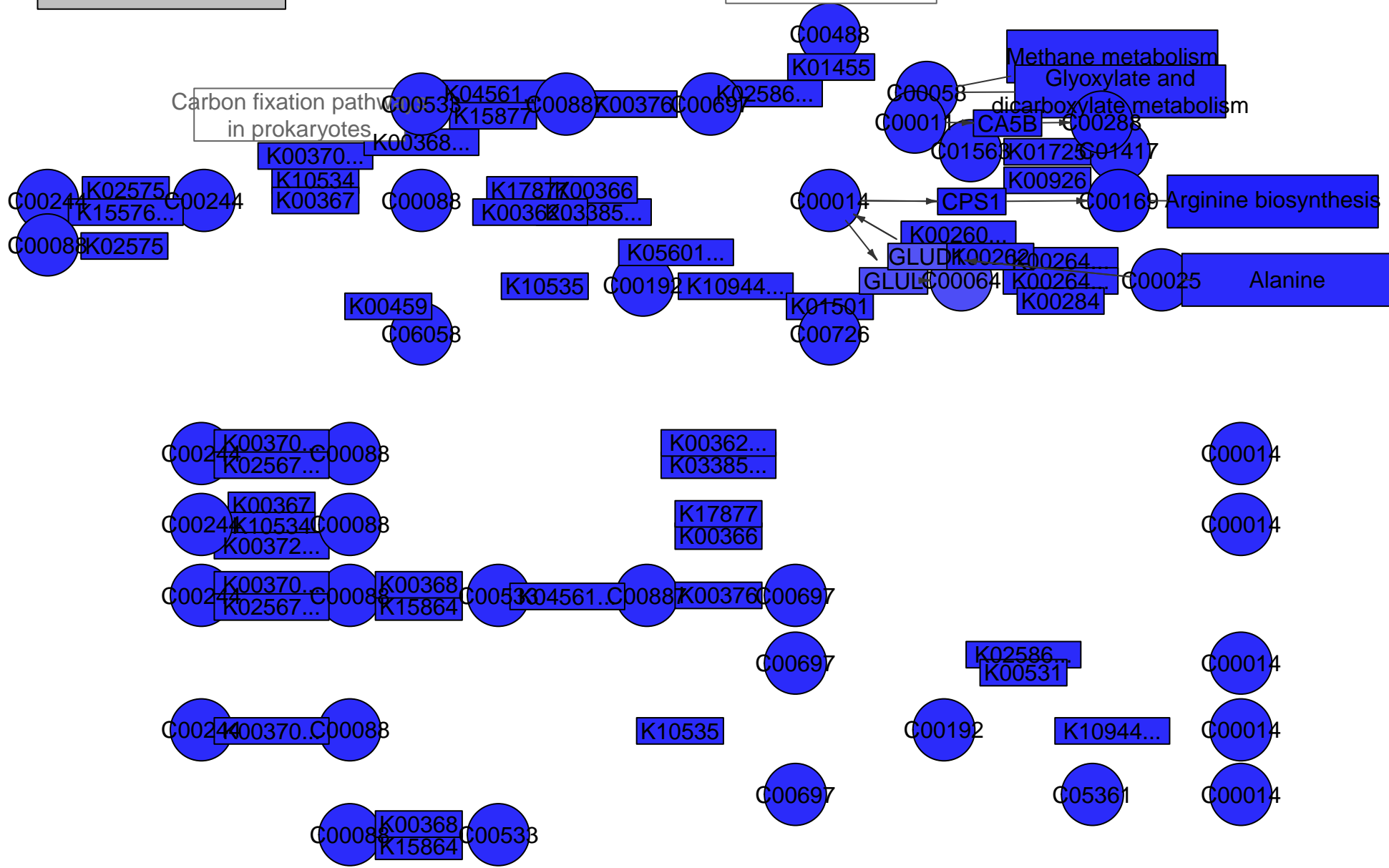
Nitrogen metabolism
MPI-166

Cyanoamino acid
metabolism



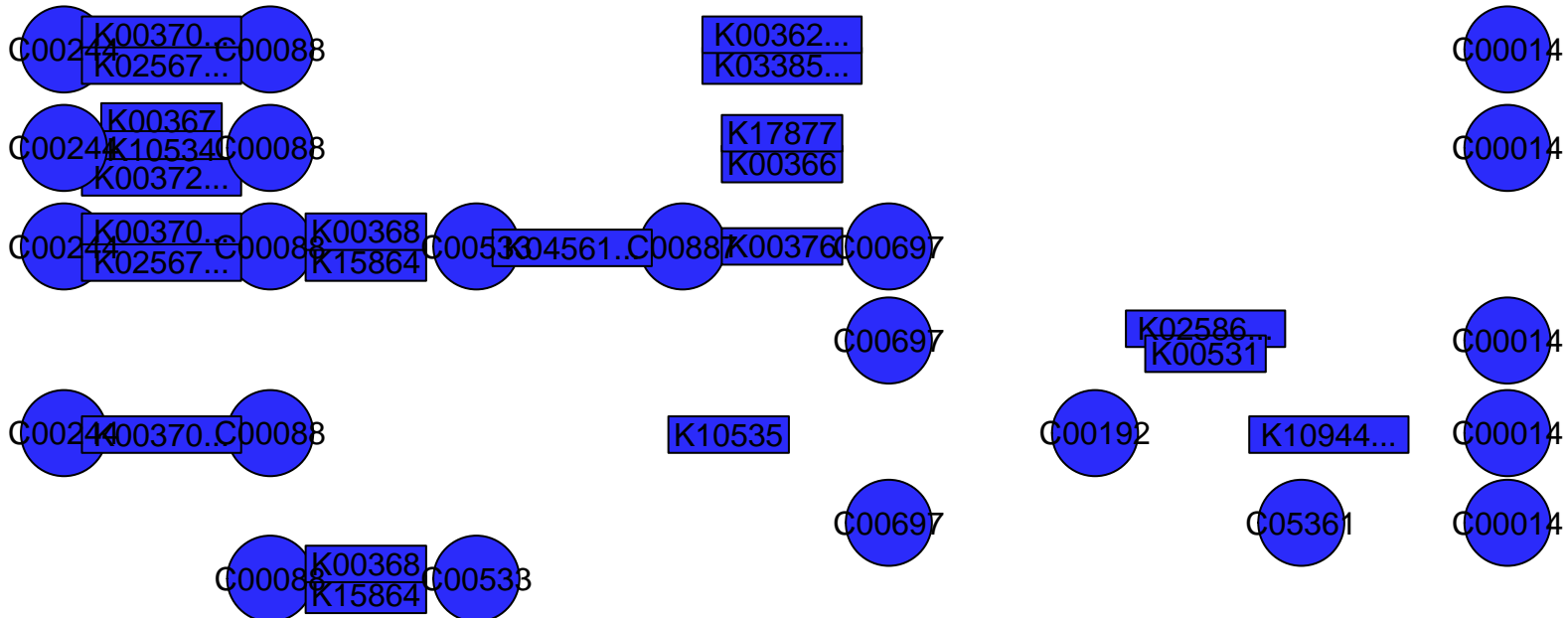
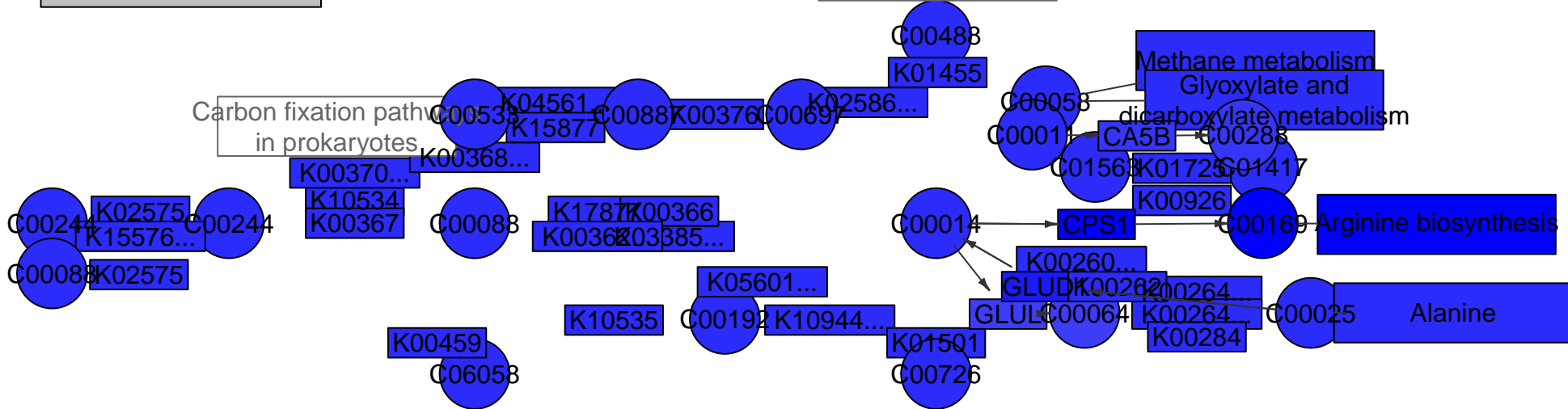
Nitrogen metabolism
MPI-167

Cyanoamino acid
metabolism



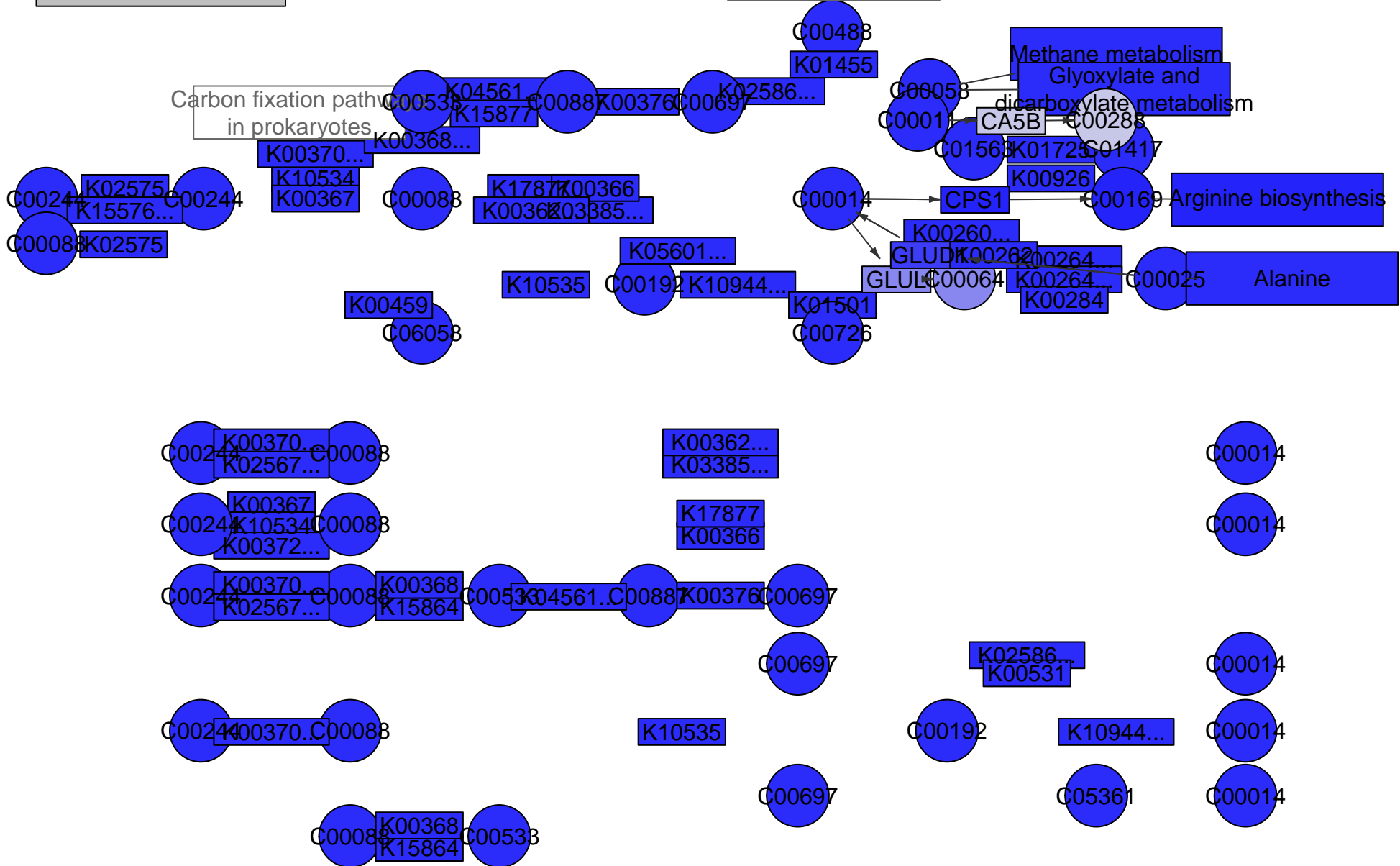
Nitrogen metabolism
MPI-170

Cyanoamino acid
metabolism



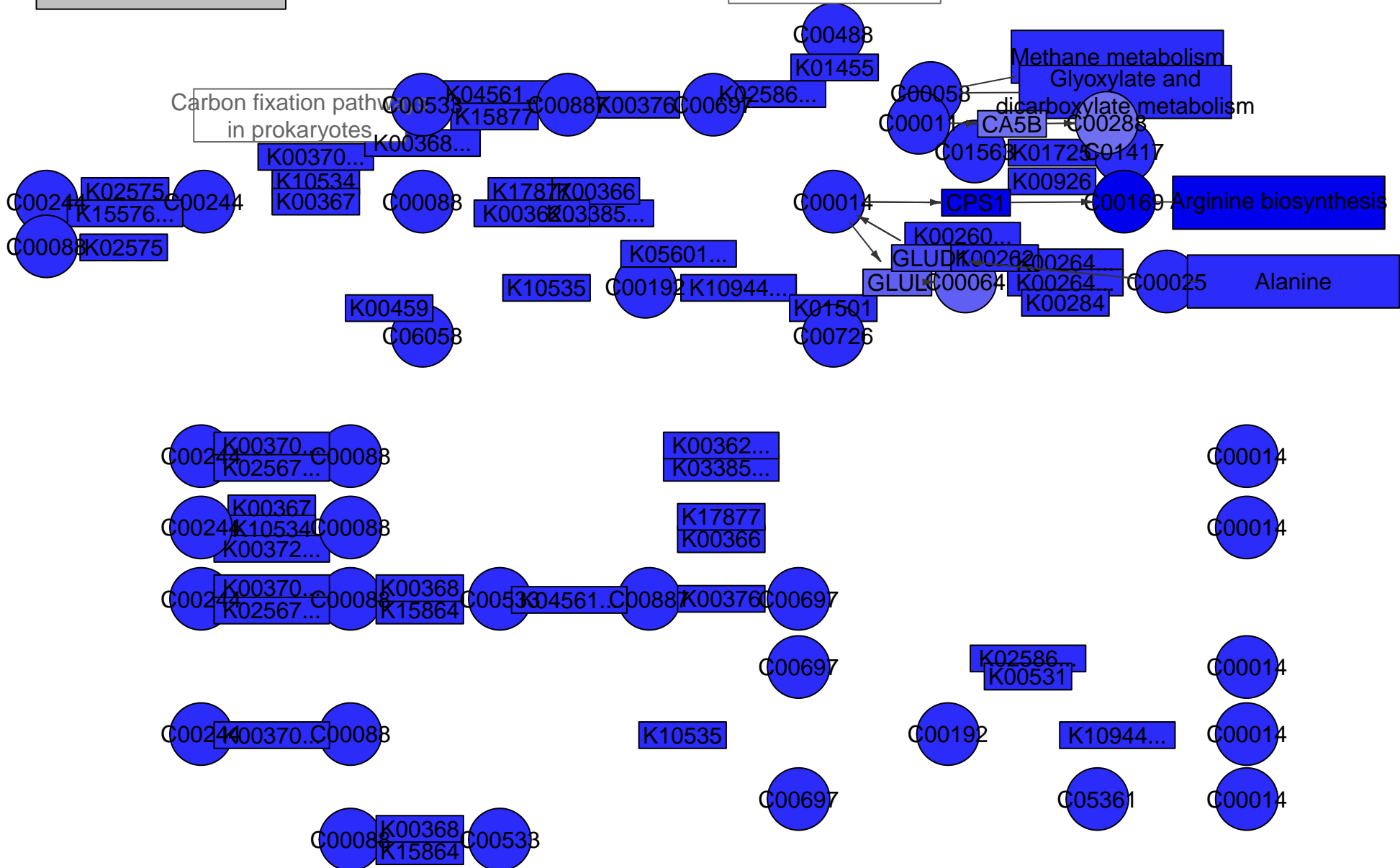
Nitrogen metabolism
MPI-173

Cyanoamino acid
metabolism



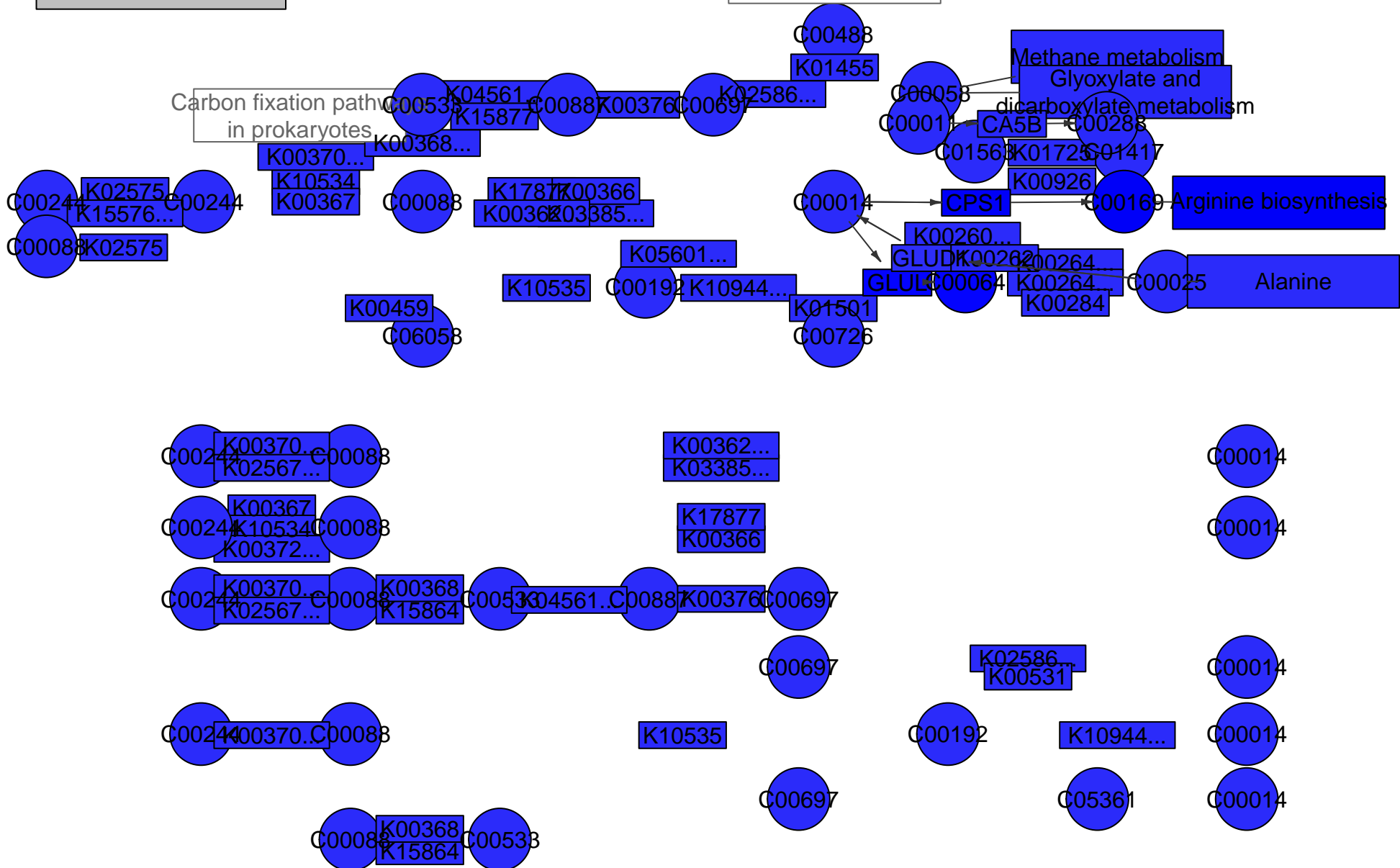
Nitrogen metabolism
MPI-174

Cyanoamino acid
metabolism



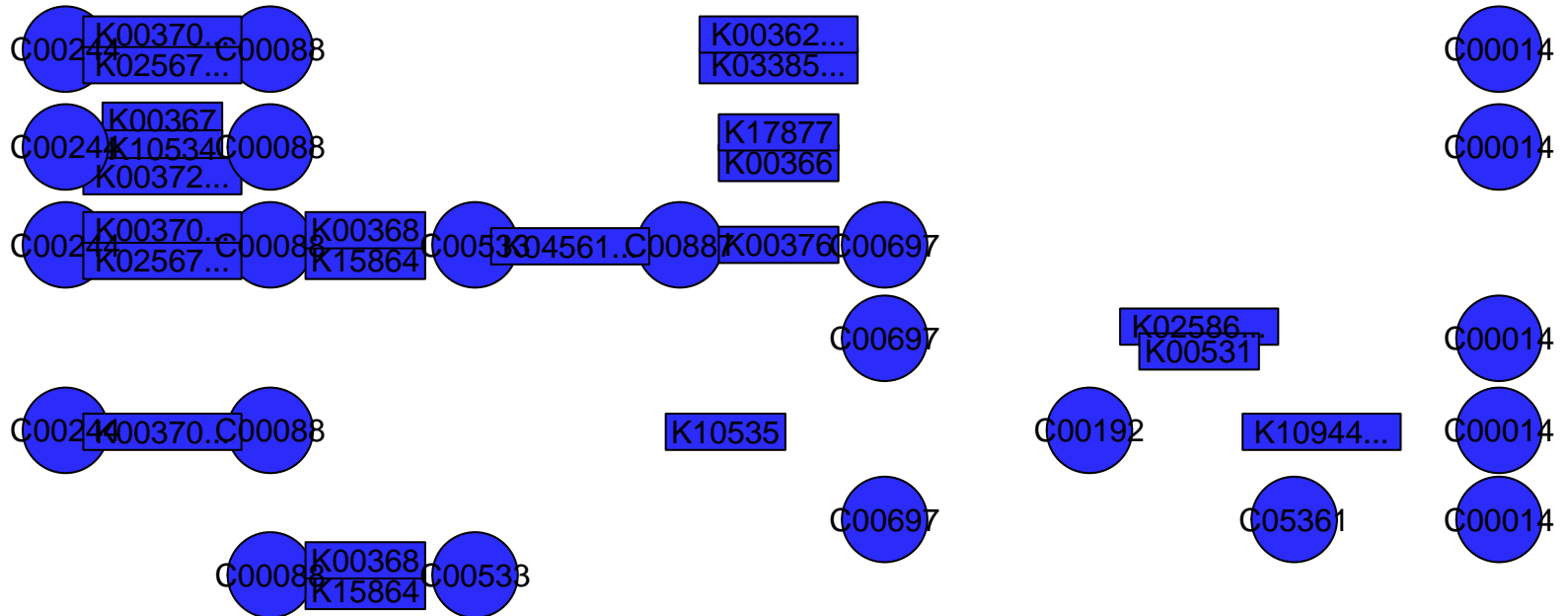
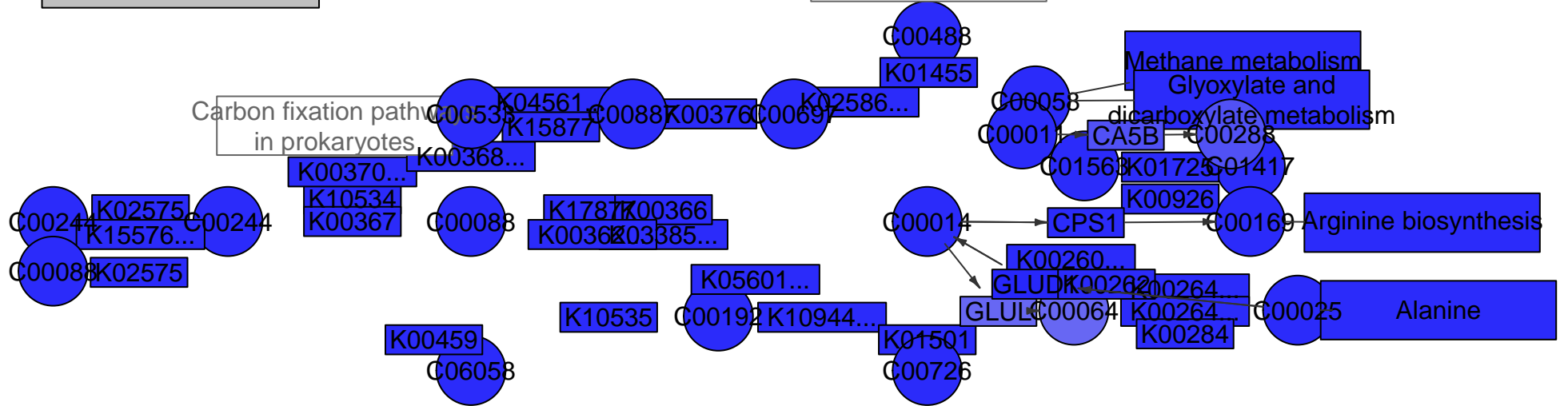
Nitrogen metabolism
MPI-176

Cyanoamino acid
metabolism



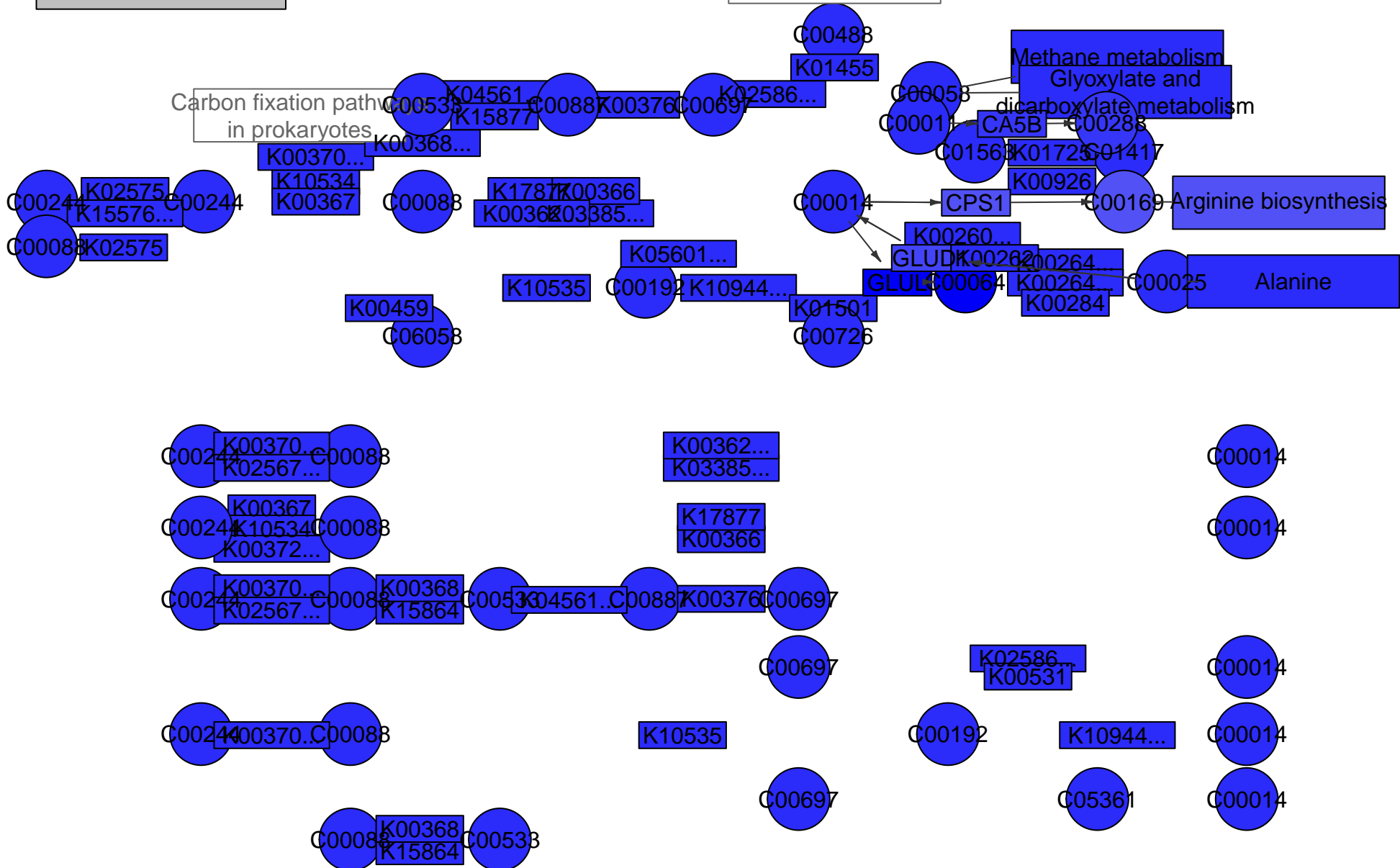
Nitrogen metabolism
MPI-178

Cyanoamino acid
metabolism



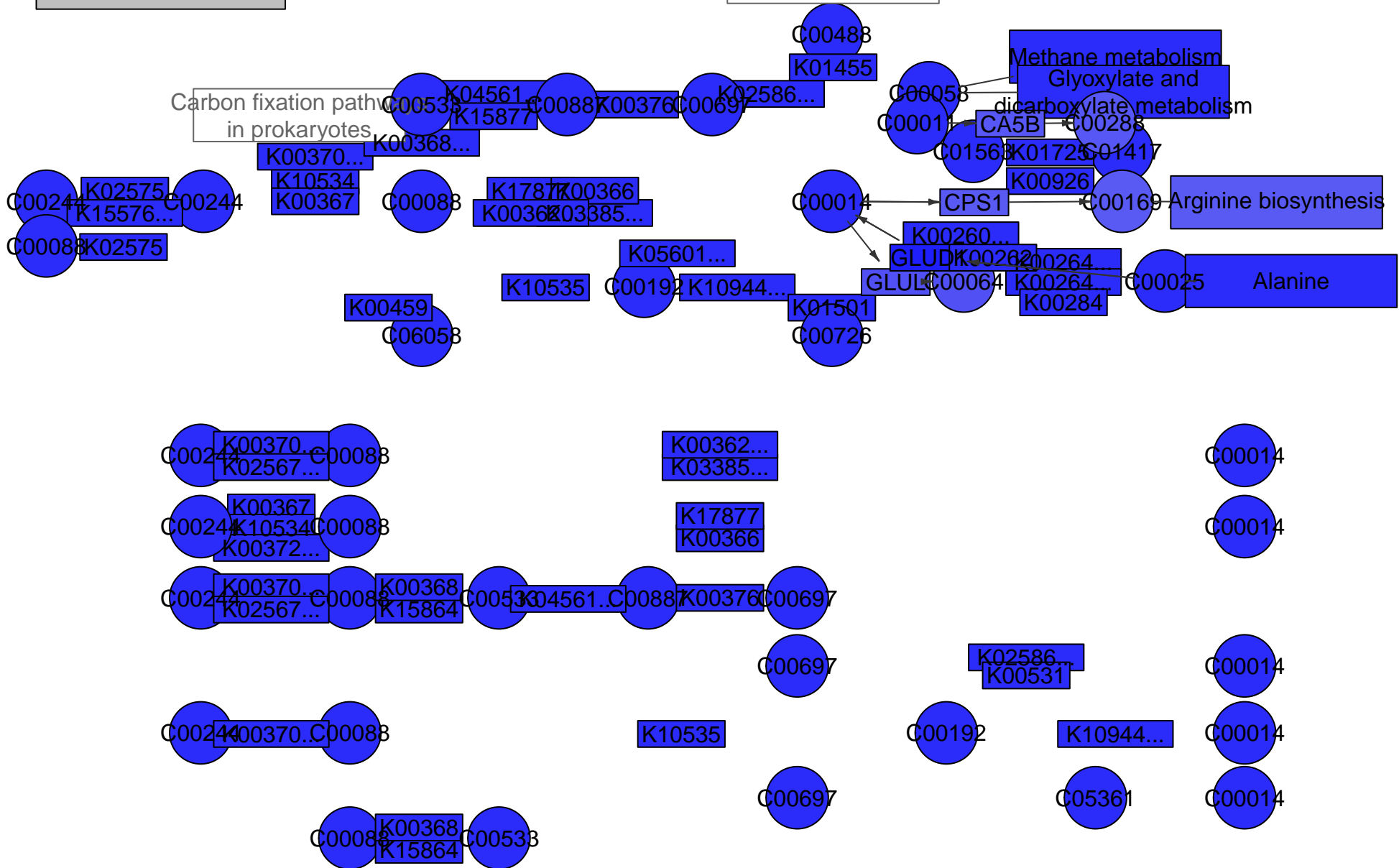
Nitrogen metabolism
MPI-179

Cyanoamino acid
metabolism



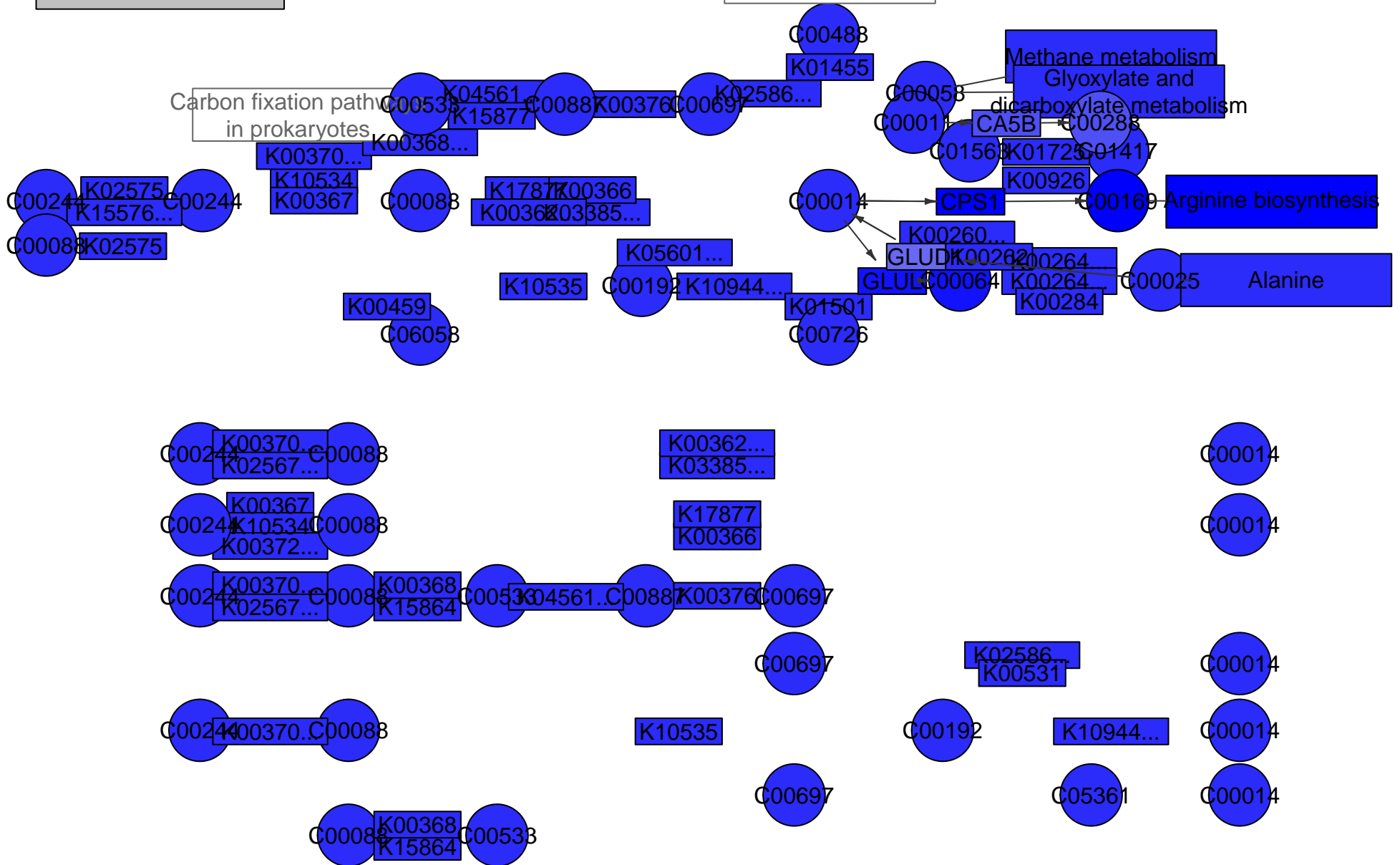
Nitrogen metabolism
MPI-180

Cyanoamino acid
metabolism



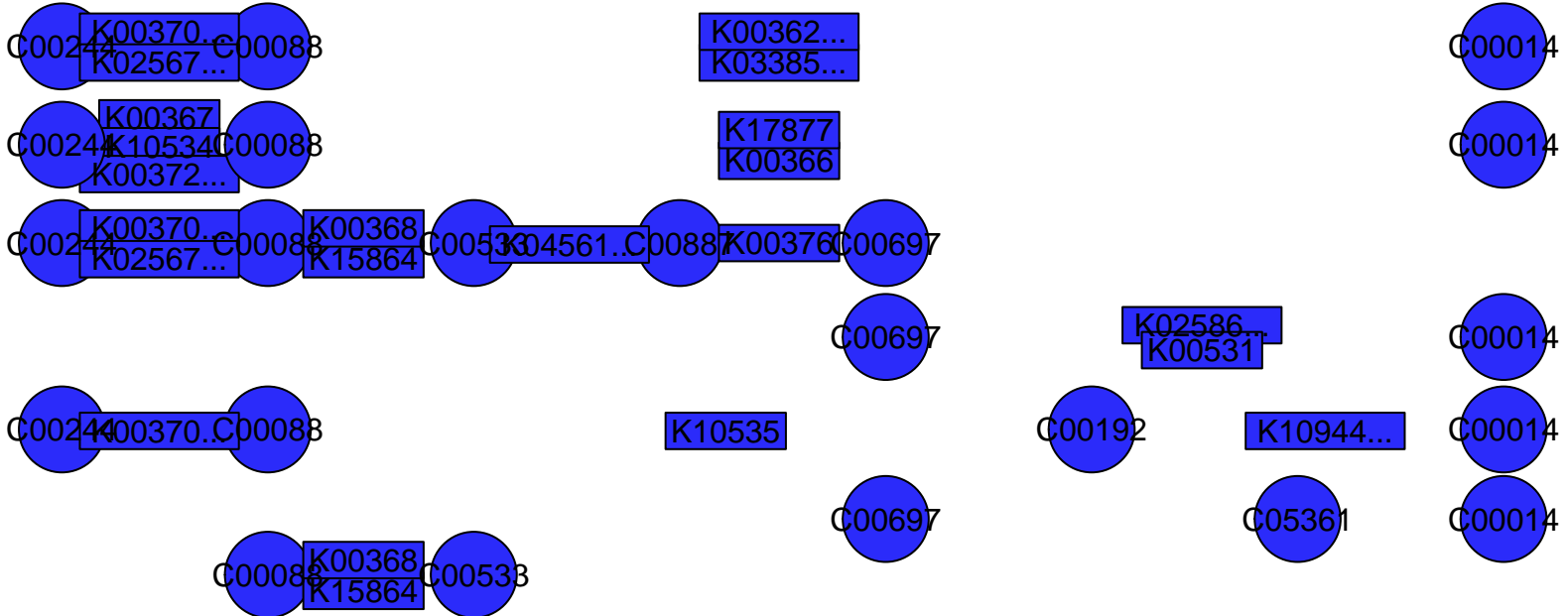
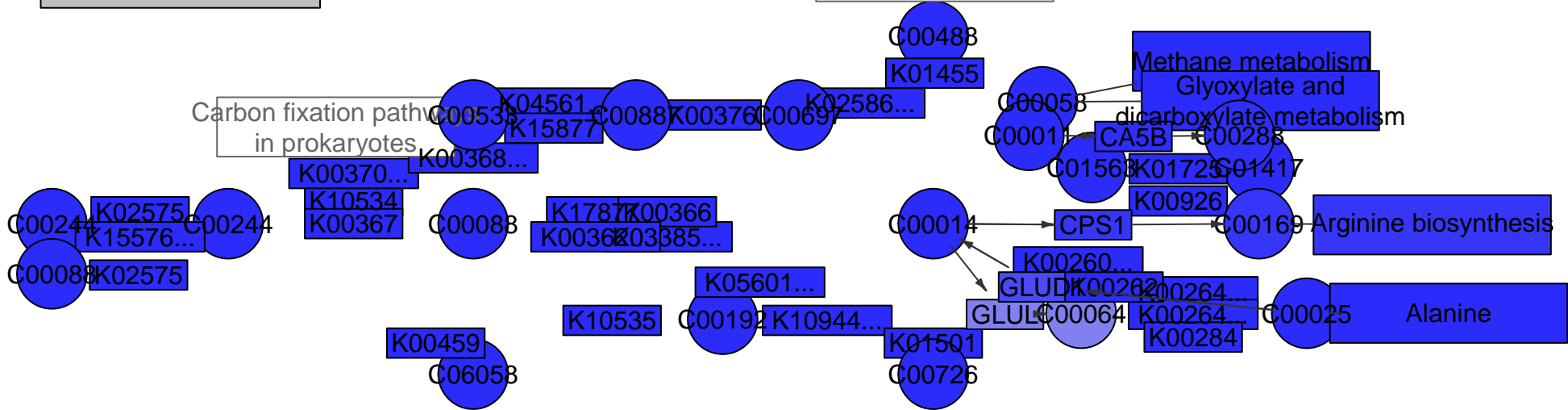
Nitrogen metabolism
MPI-185

Cyanoamino acid
metabolism



Nitrogen metabolism
MPI-189

Cyanoamino acid
metabolism



Nitrogen metabolism
MPI-190

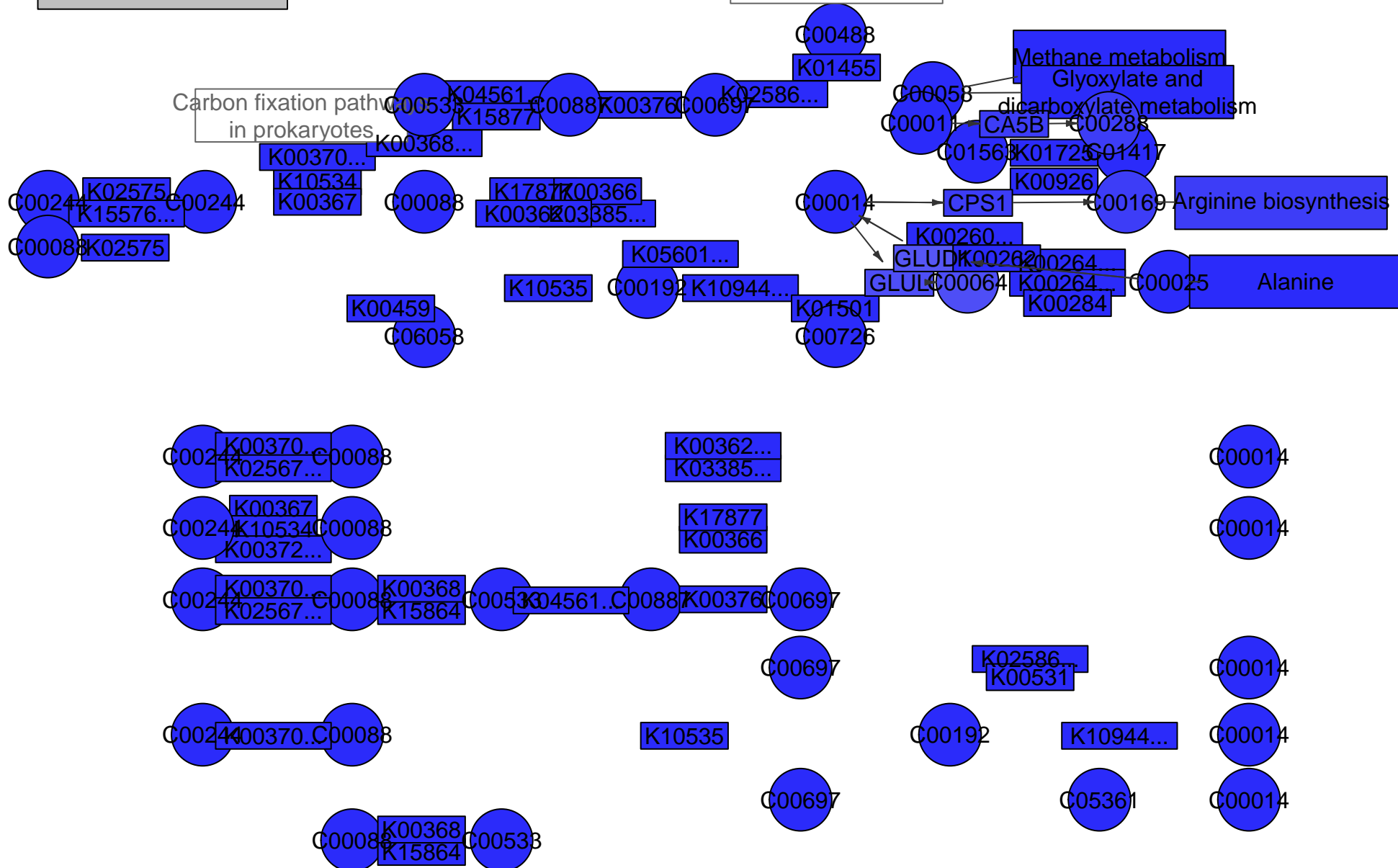
Cyanoamino acid
metabolism

Carbon fixation pathway
in prokaryotes

Methane metabolism
Glyoxylate and
dicarboxylate metabolism

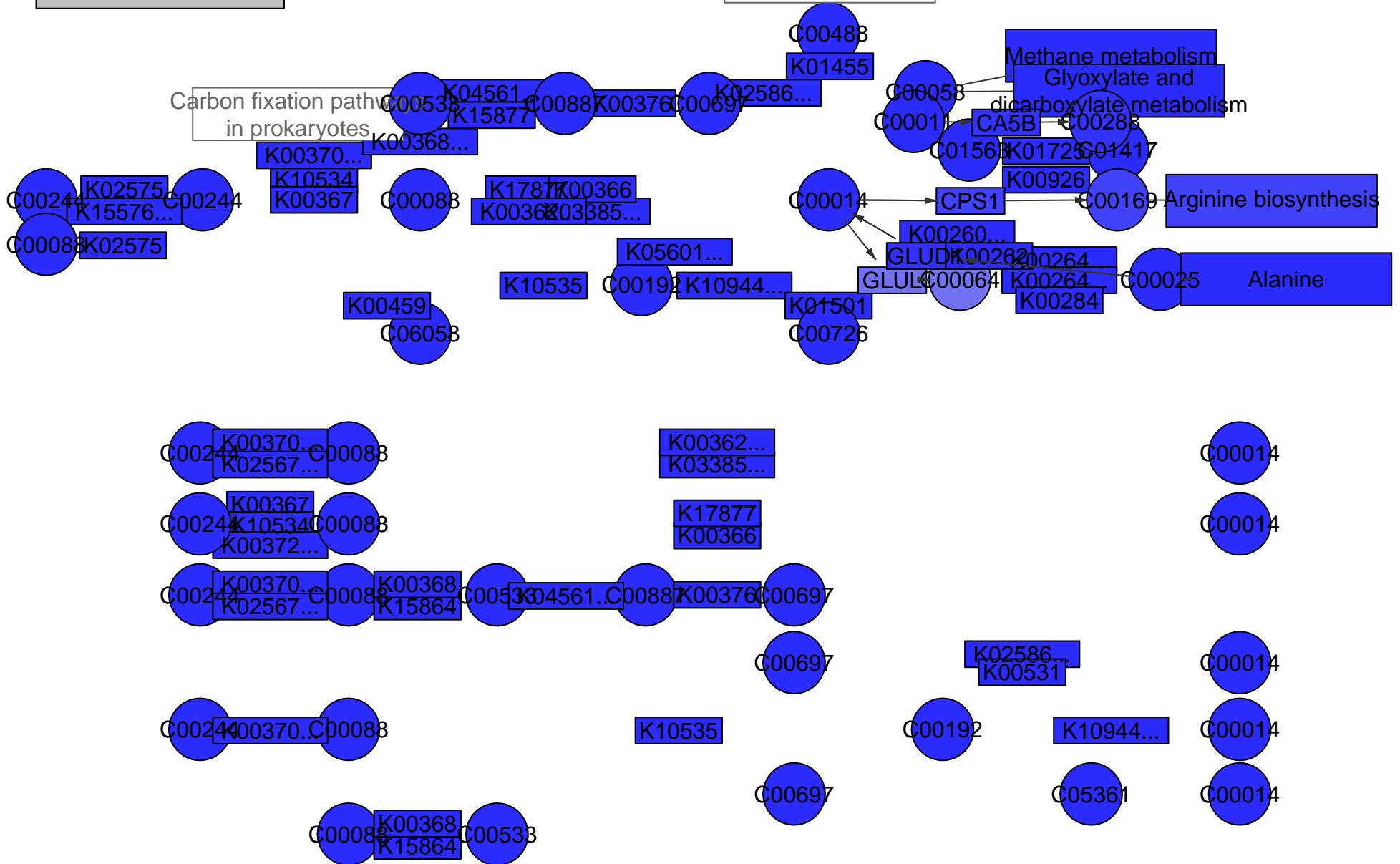
Arginine biosynthesis

Alanine



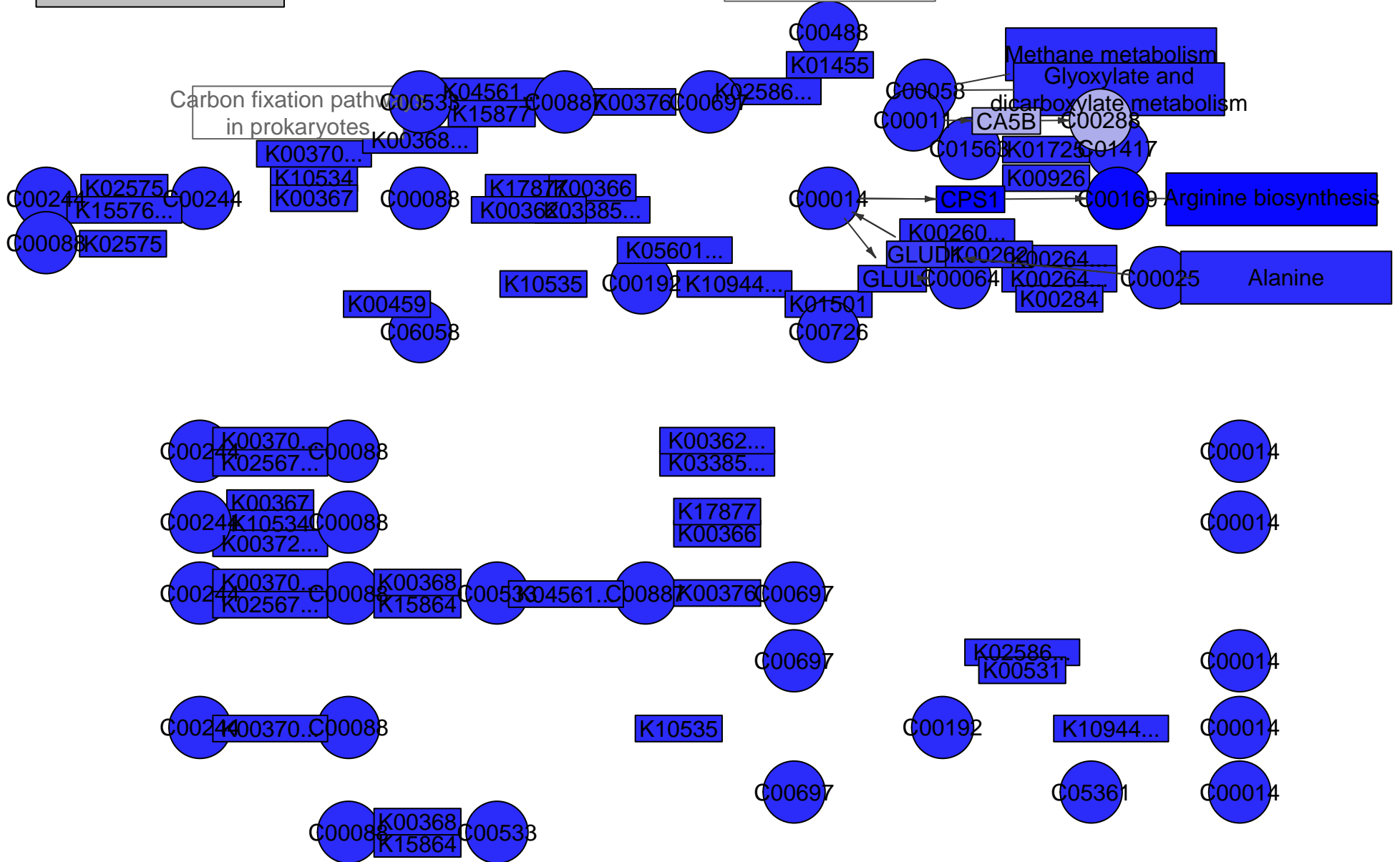
Nitrogen metabolism
MPI-191

Cyanoamino acid
metabolism



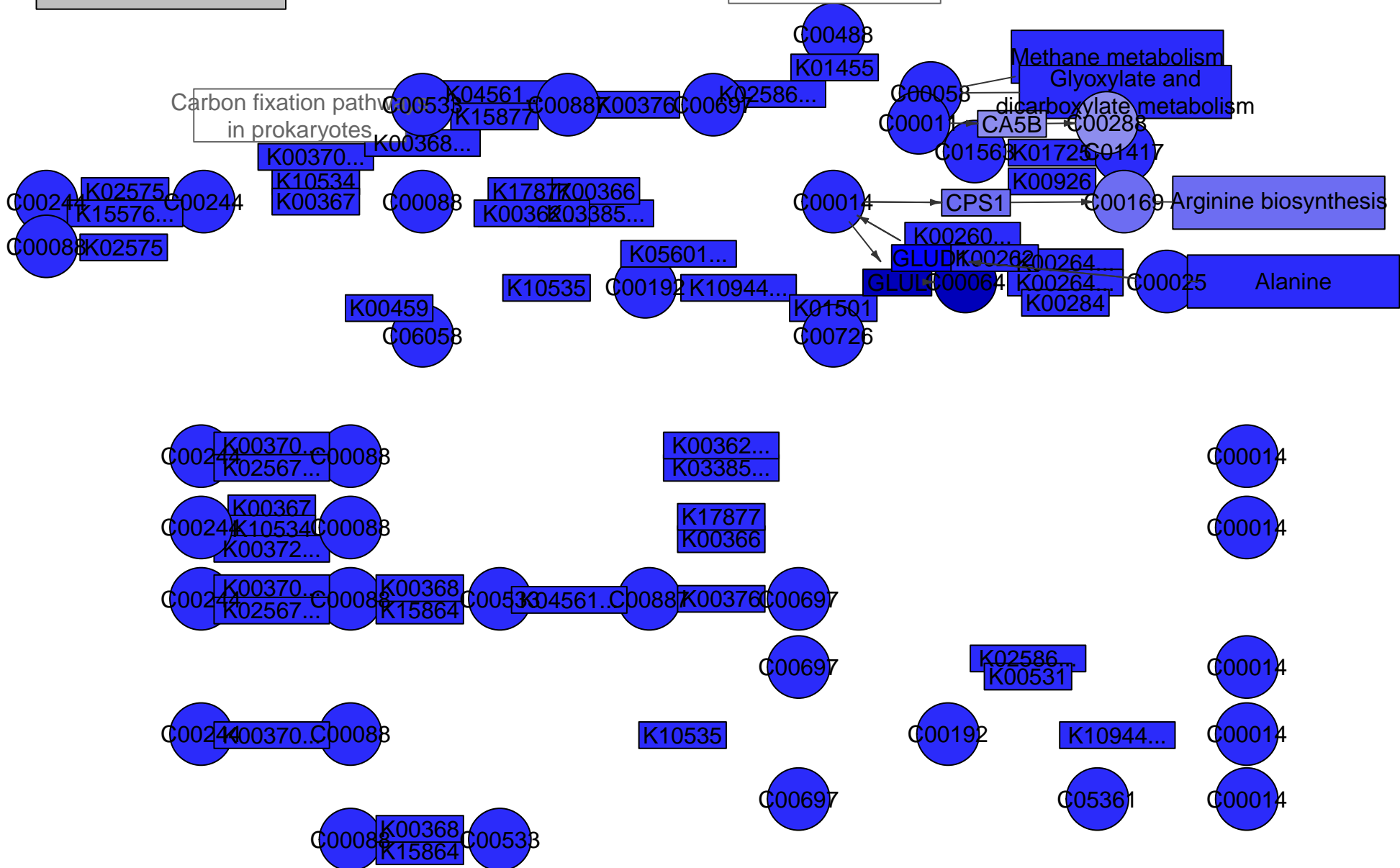
Nitrogen metabolism
MPI-192

Cyanoamino acid
metabolism



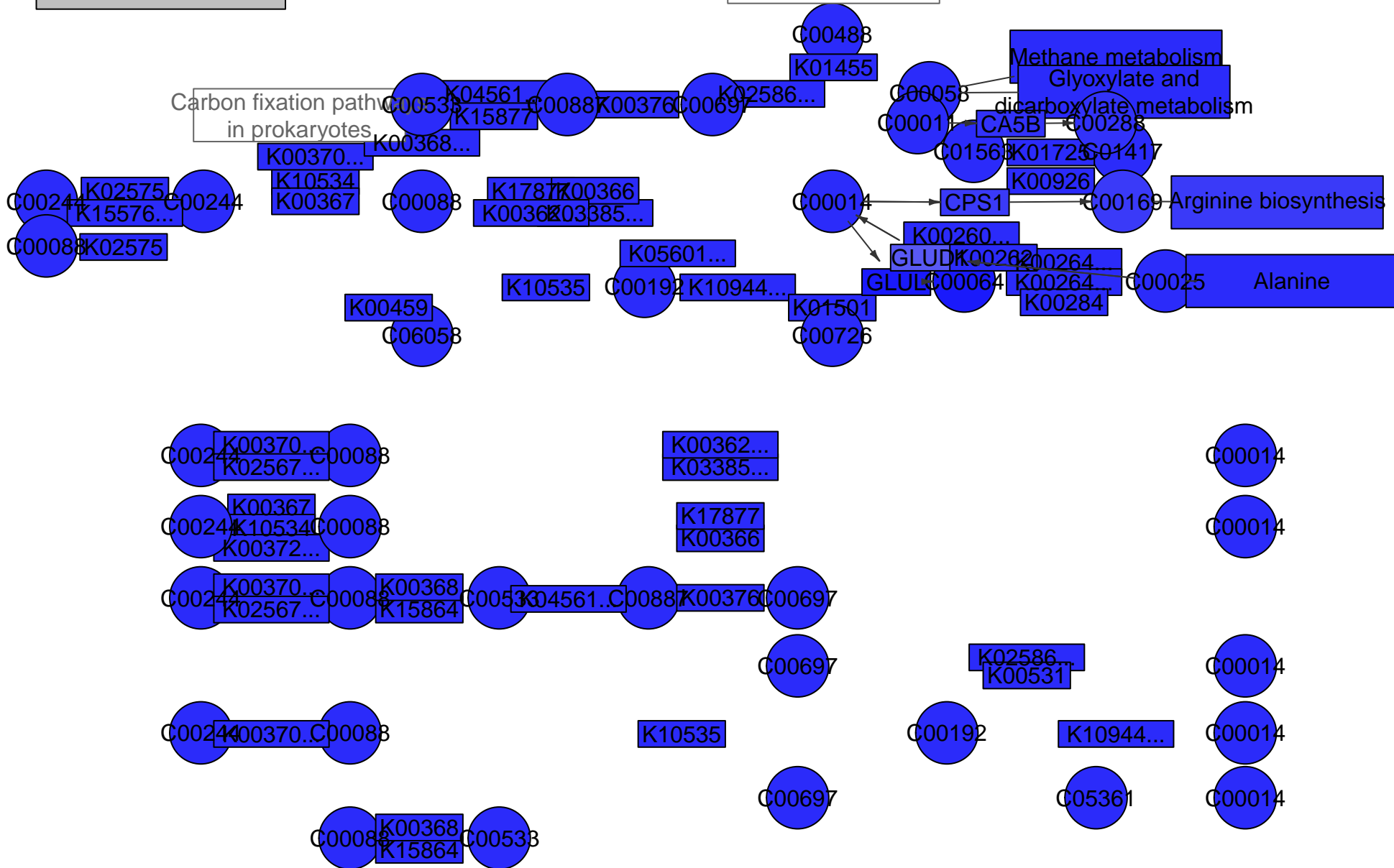
Nitrogen metabolism
MPI-195

Cyanoamino acid
metabolism



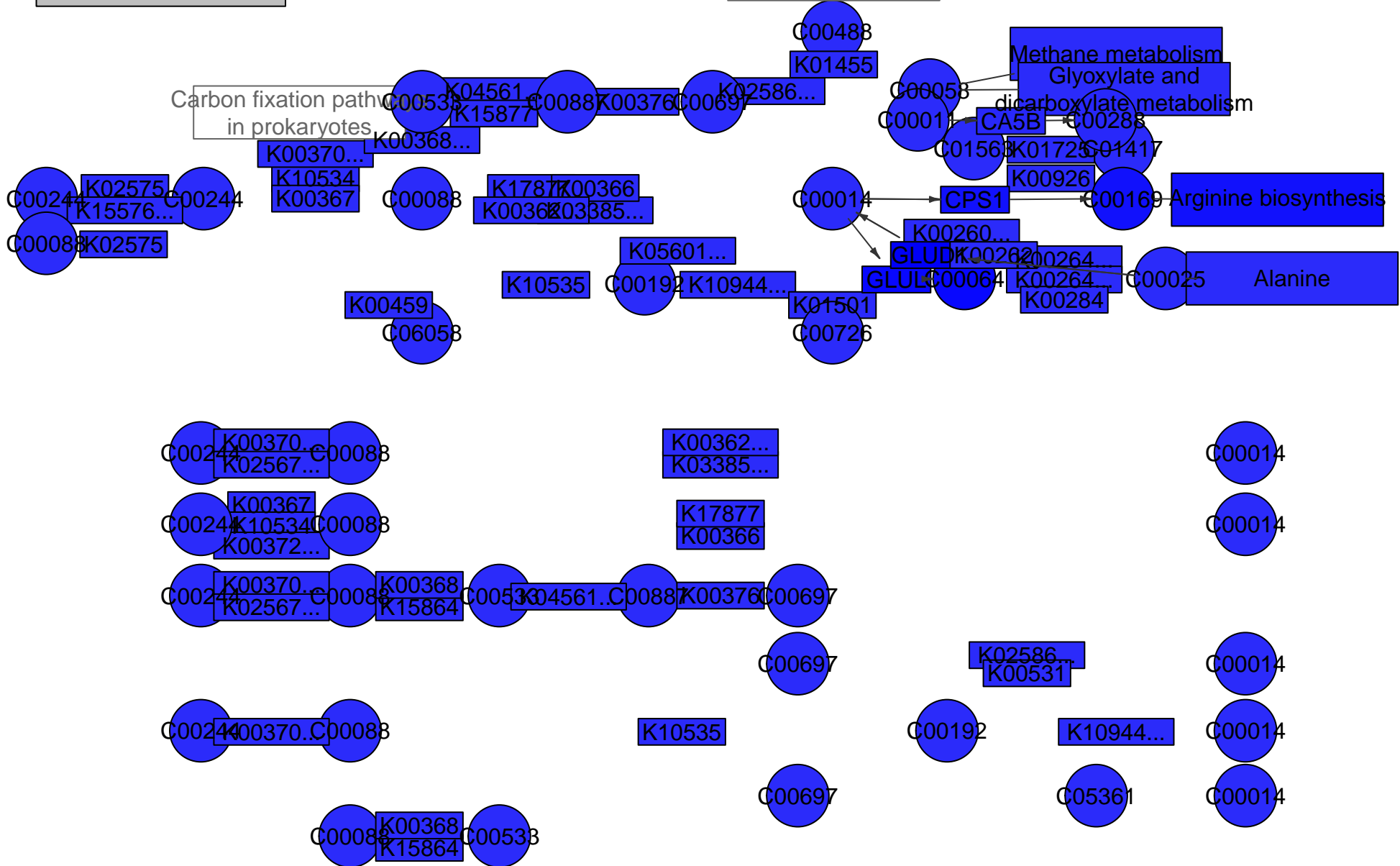
Nitrogen metabolism
MPI-198

Cyanoamino acid
metabolism



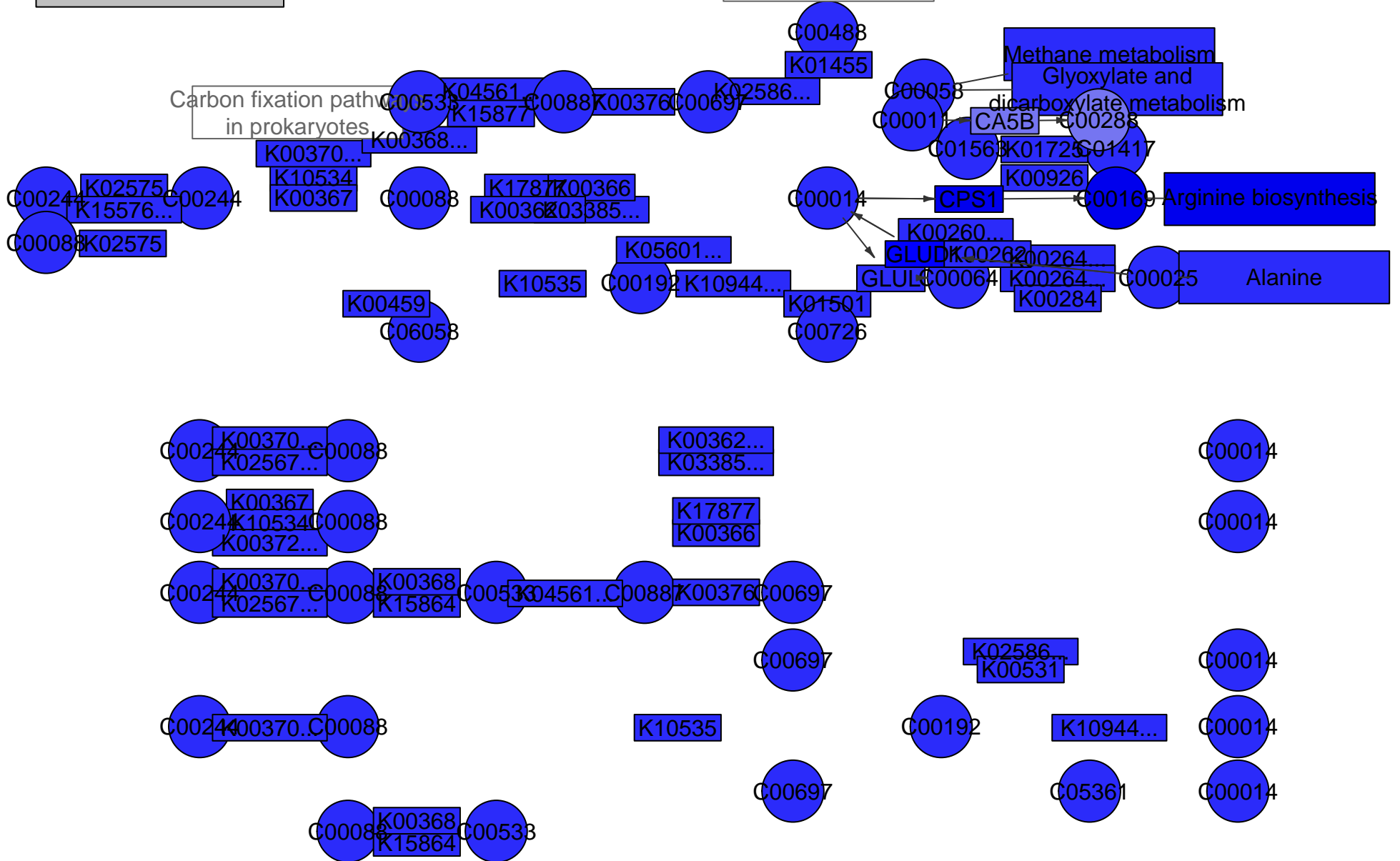
Nitrogen metabolism
MPI-201

Cyanoamino acid
metabolism



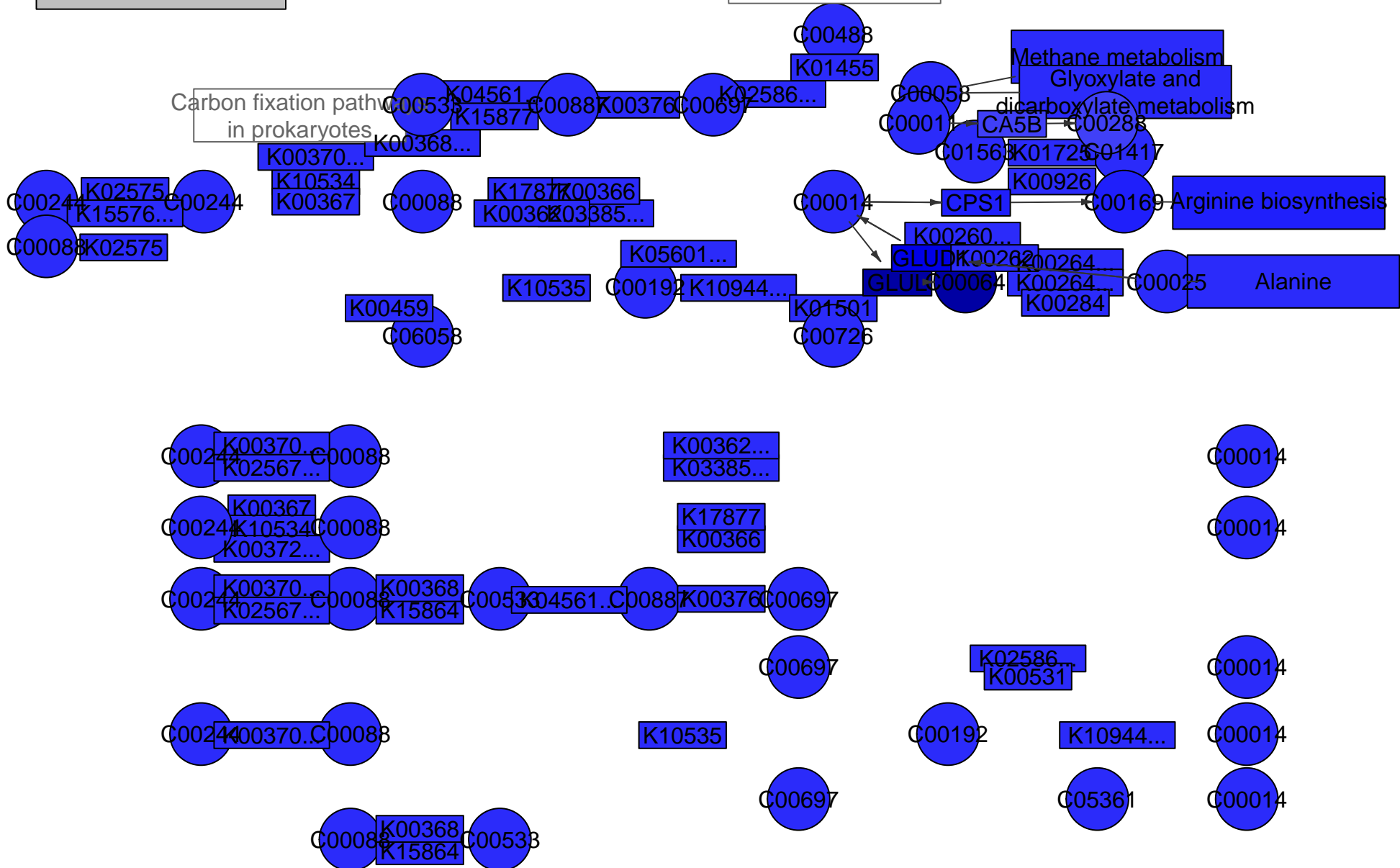
Nitrogen metabolism
MPI-202

Cyanoamino acid
metabolism



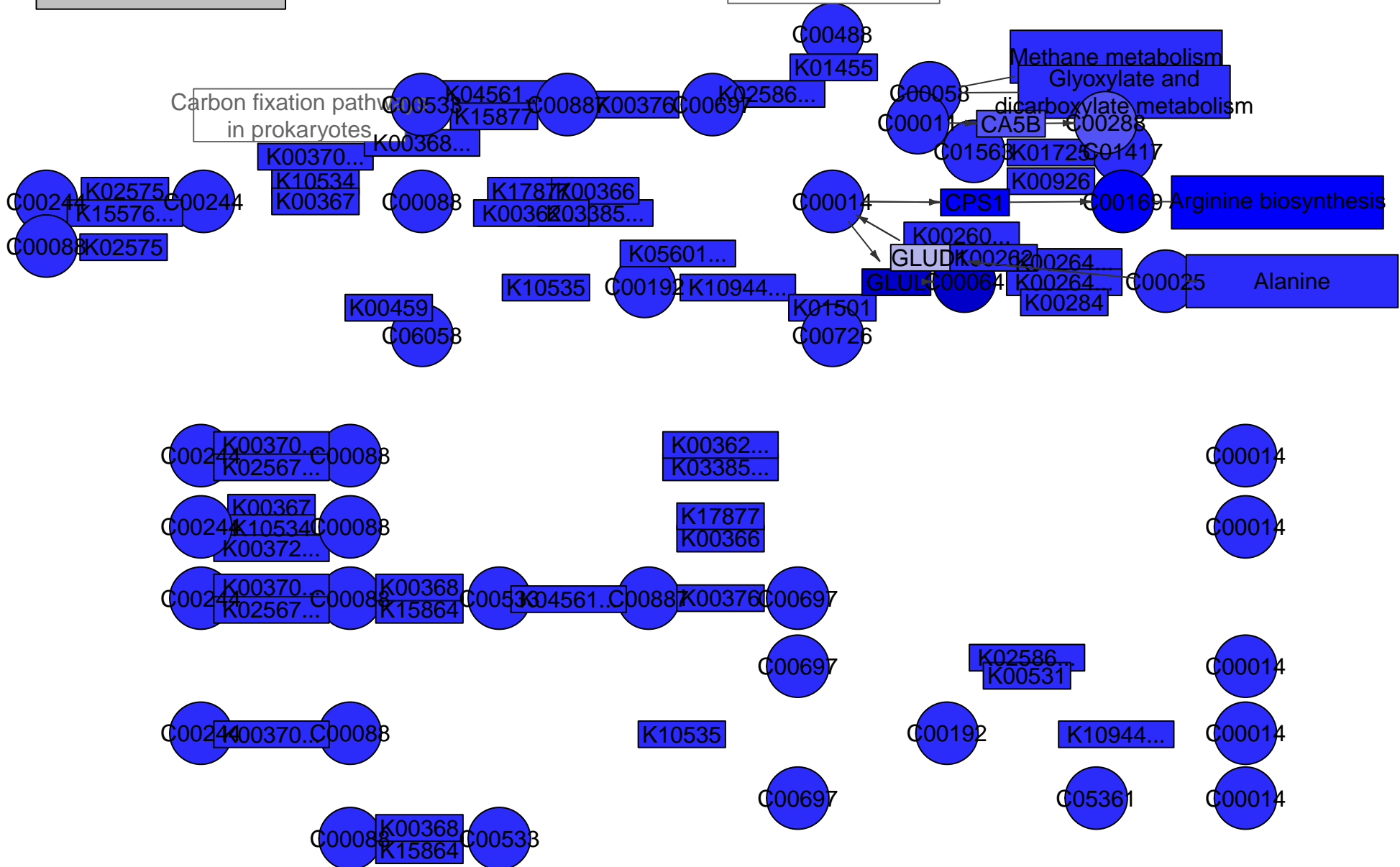
Nitrogen metabolism
MPI-203

Cyanoamino acid
metabolism



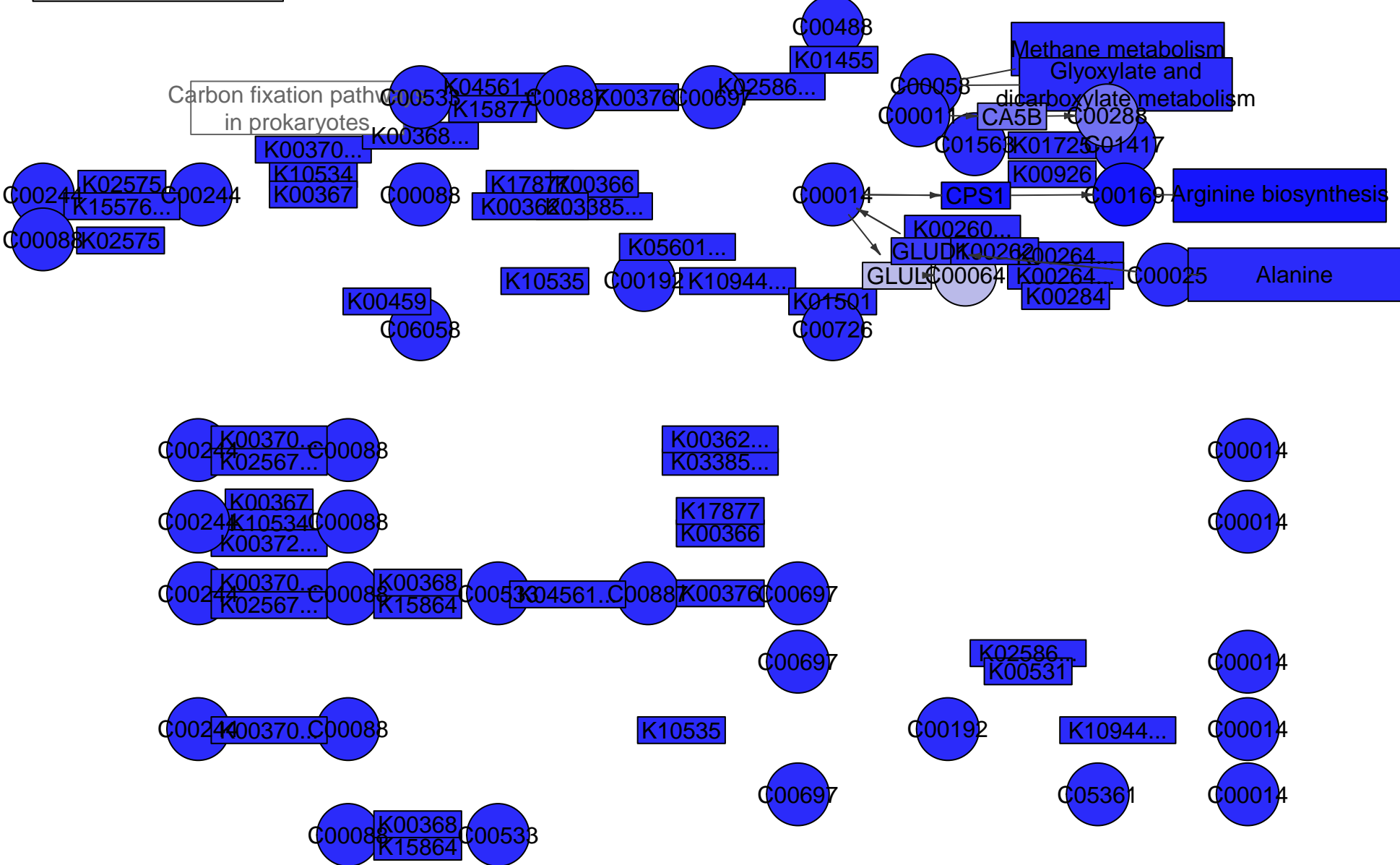
Nitrogen metabolism
MPI-206

Cyanoamino acid
metabolism



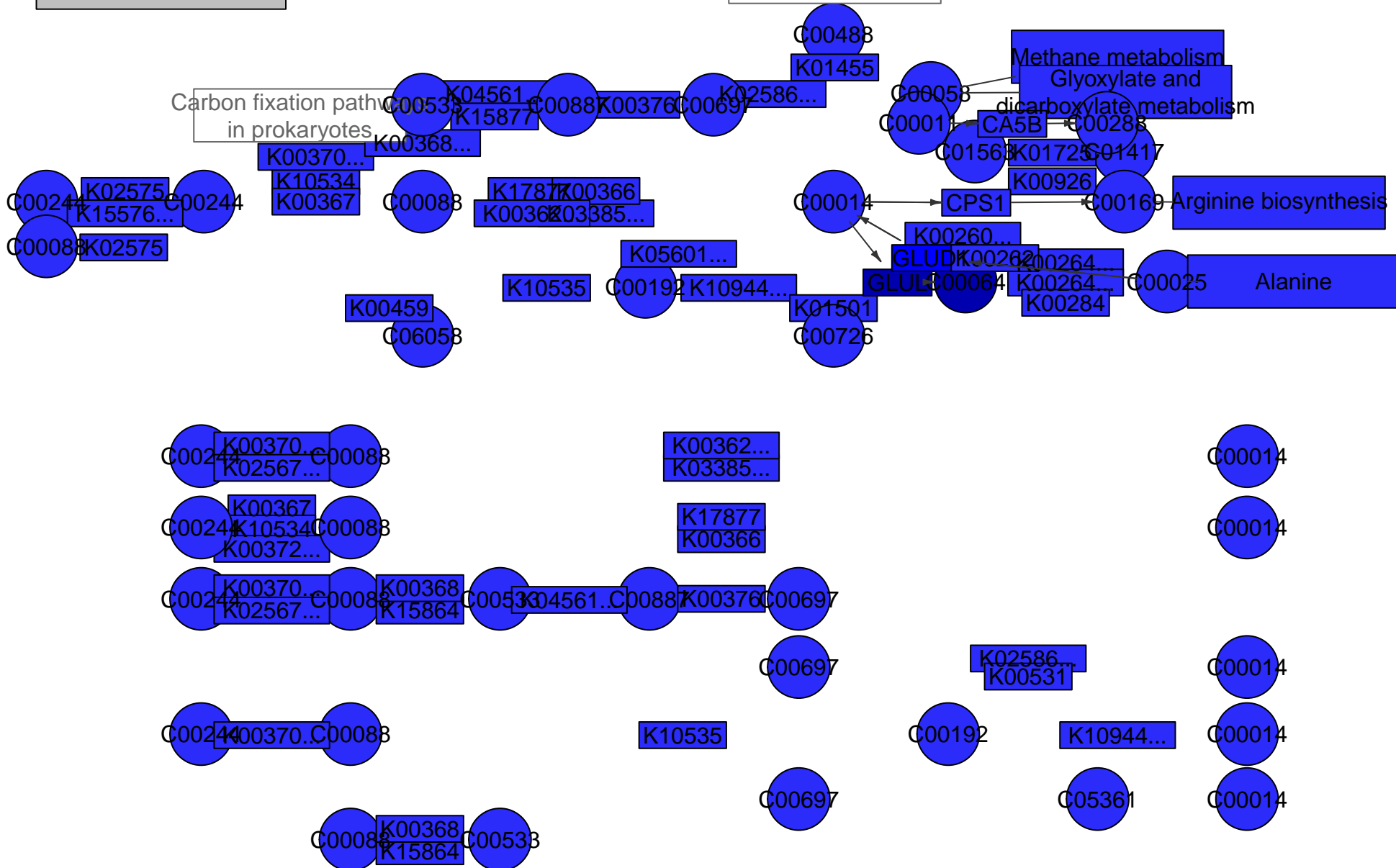
Nitrogen metabolism
MPI-208

Cyanoamino acid
metabolism



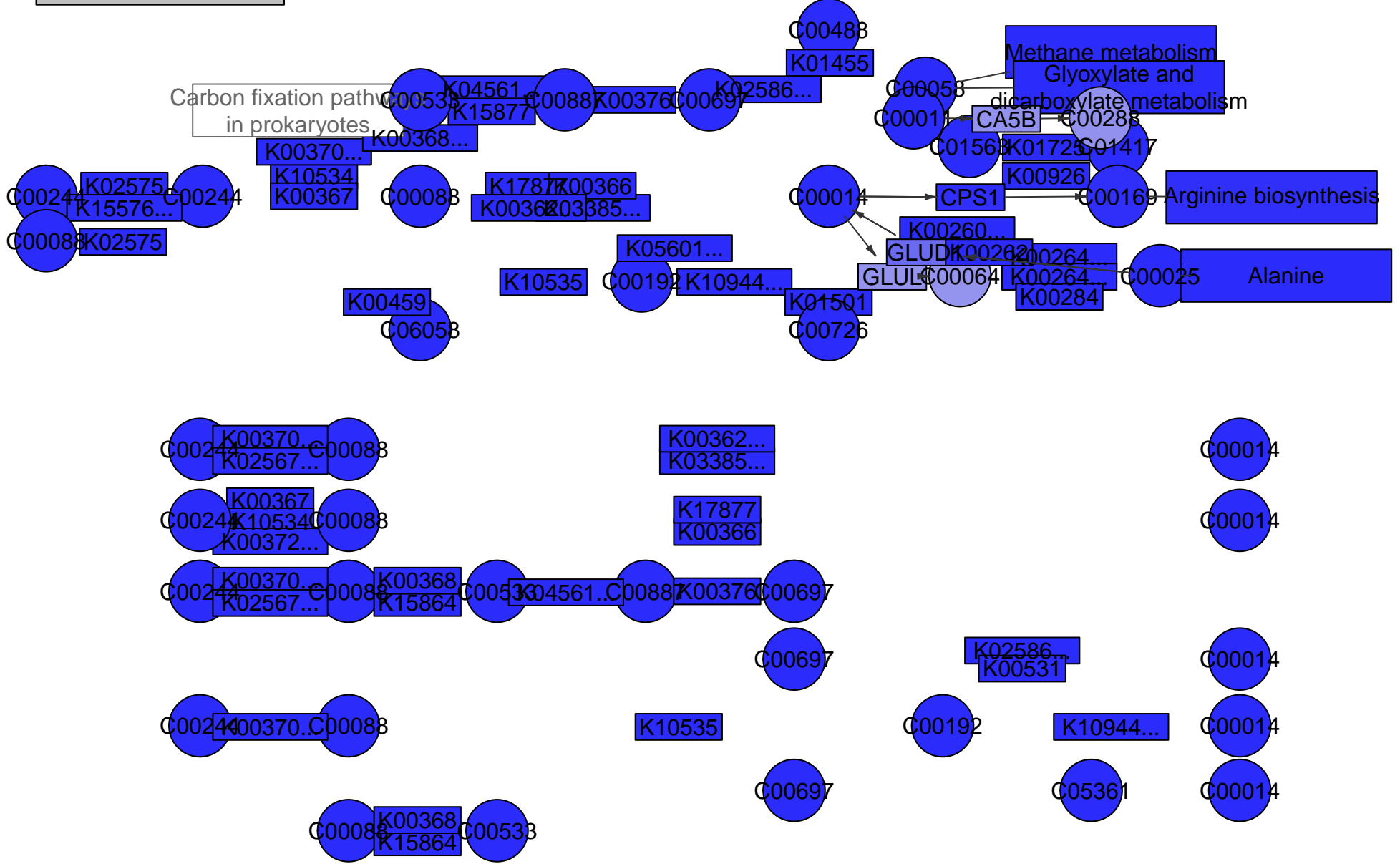
Nitrogen metabolism
MPI-210

Cyanoamino acid
metabolism



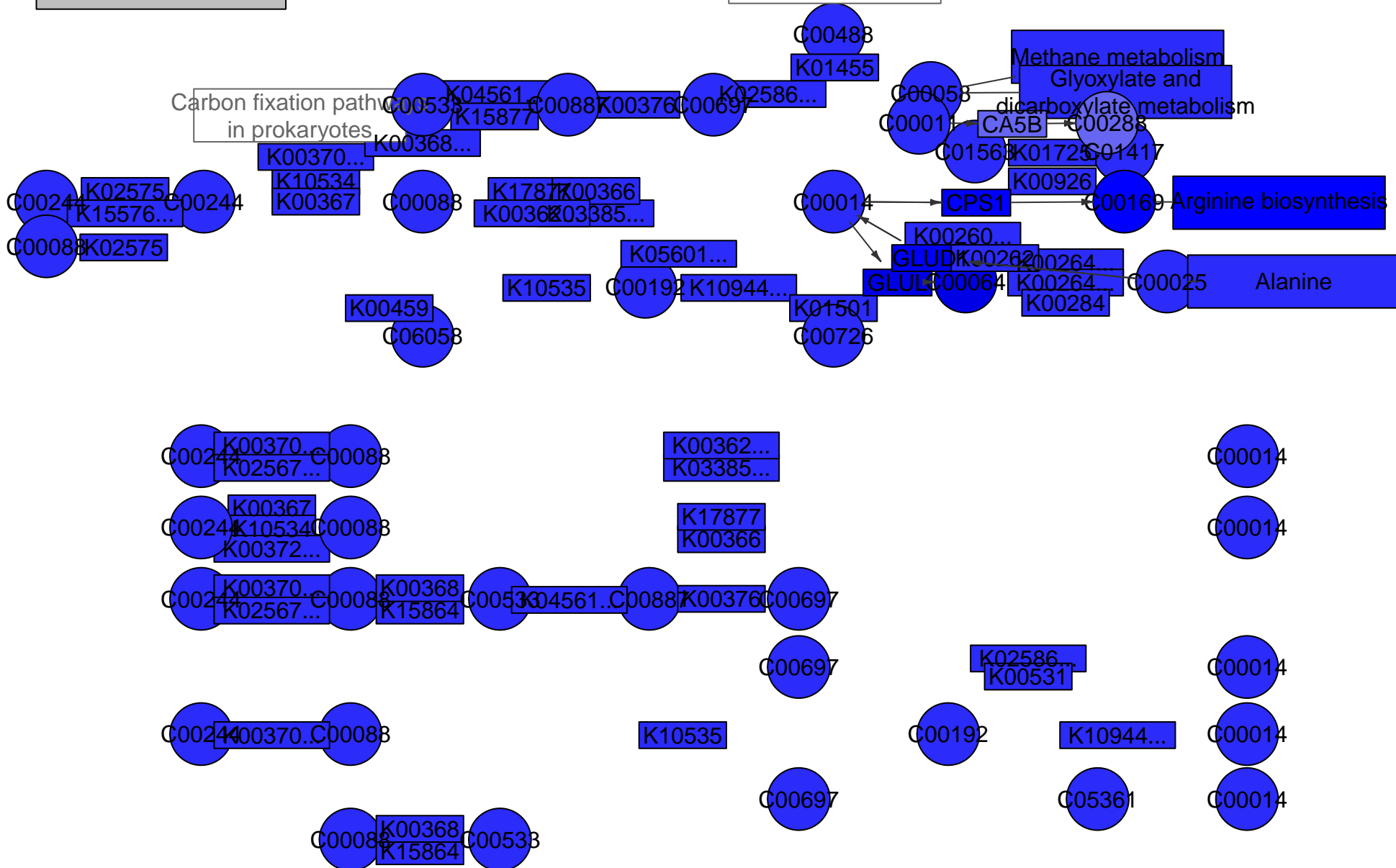
Nitrogen metabolism
MPI-212

Cyanoamino acid
metabolism



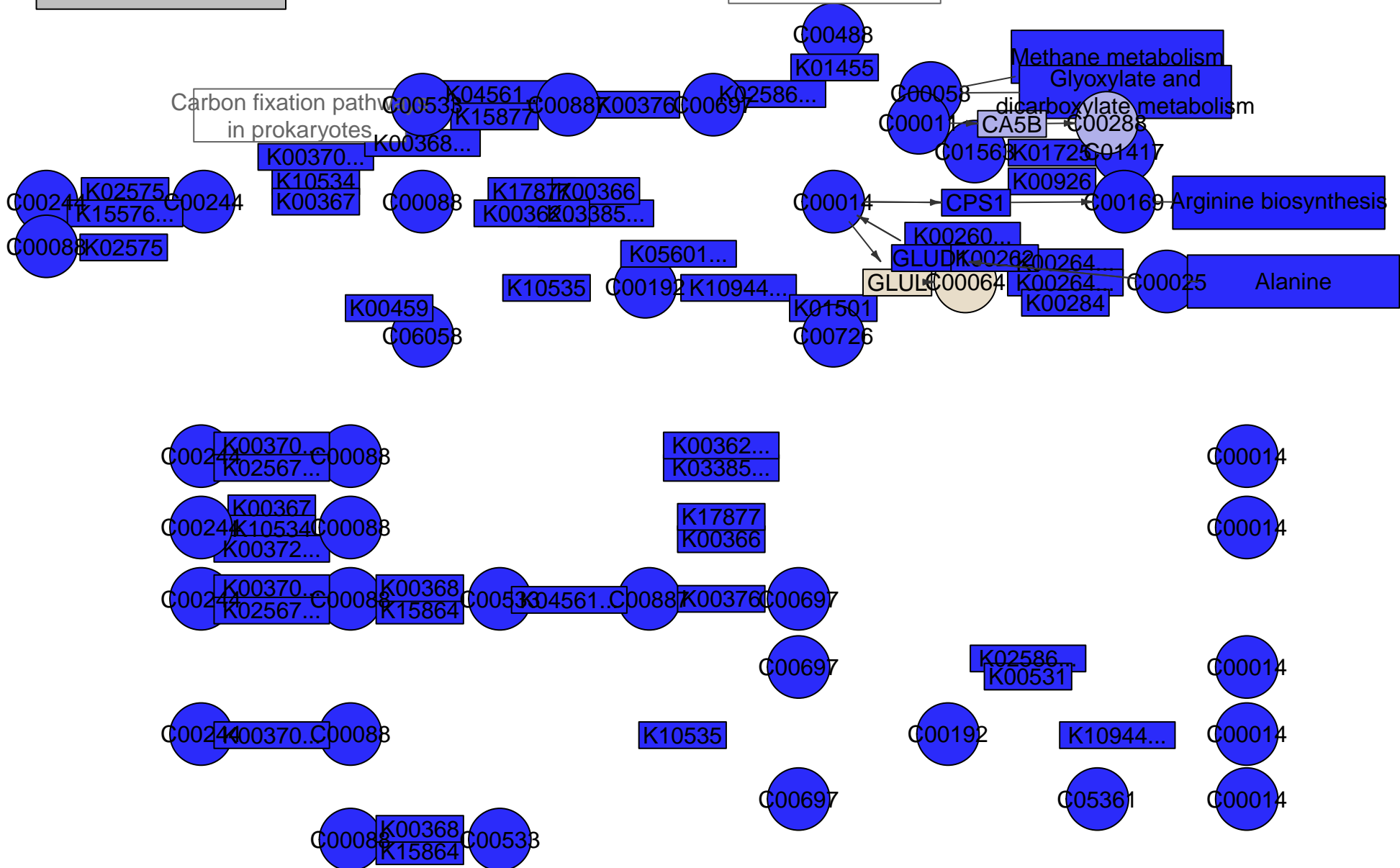
Nitrogen metabolism
MPI-219

Cyanoamino acid
metabolism



Nitrogen metabolism
MPI-226

Cyanoamino acid
metabolism



Nitrogen metabolism
MPI-228

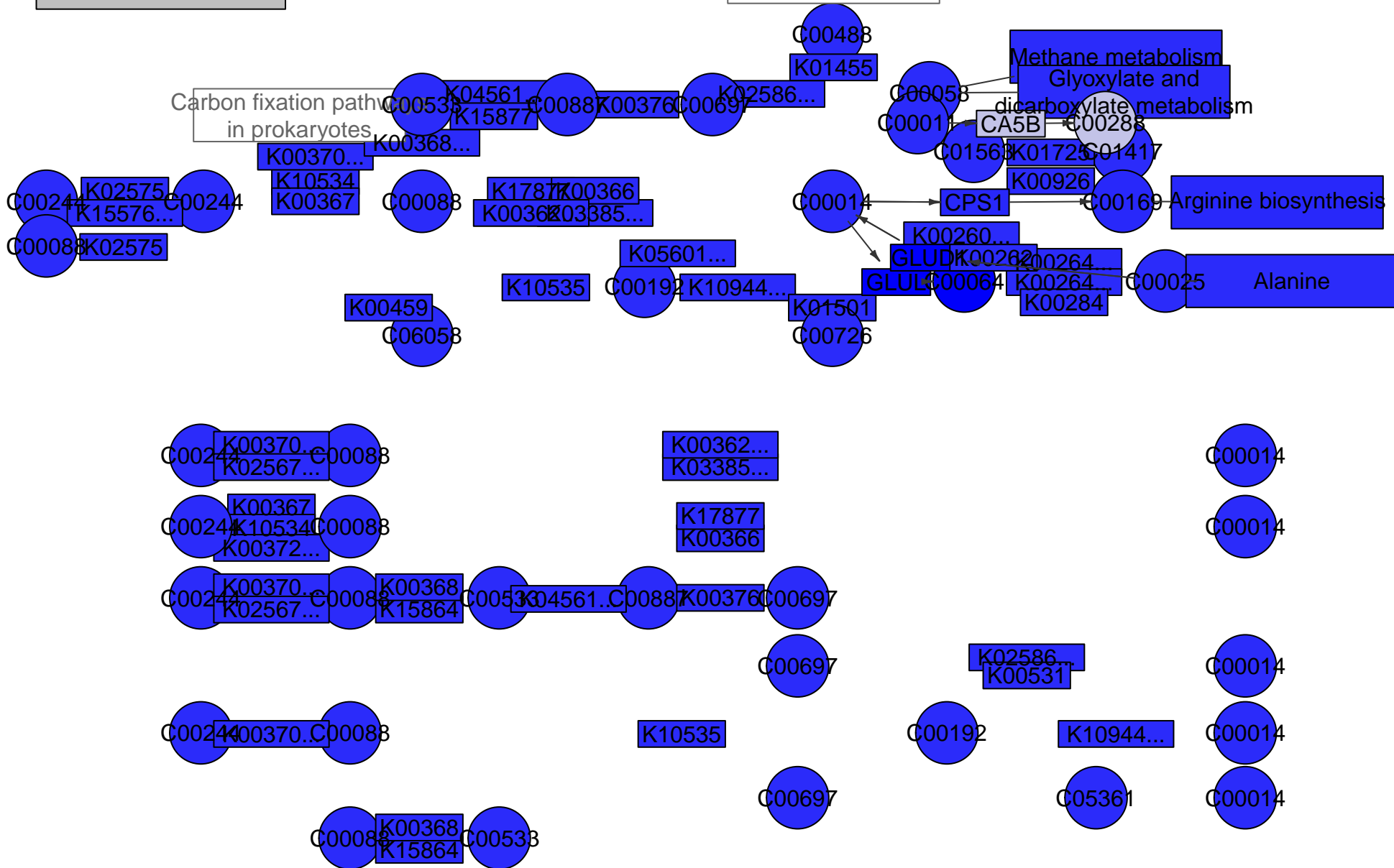
Cyanoamino acid
metabolism

Carbon fixation pathway
in prokaryotes

Methane metabolism
Glyoxylate and
dicarboxylate metabolism

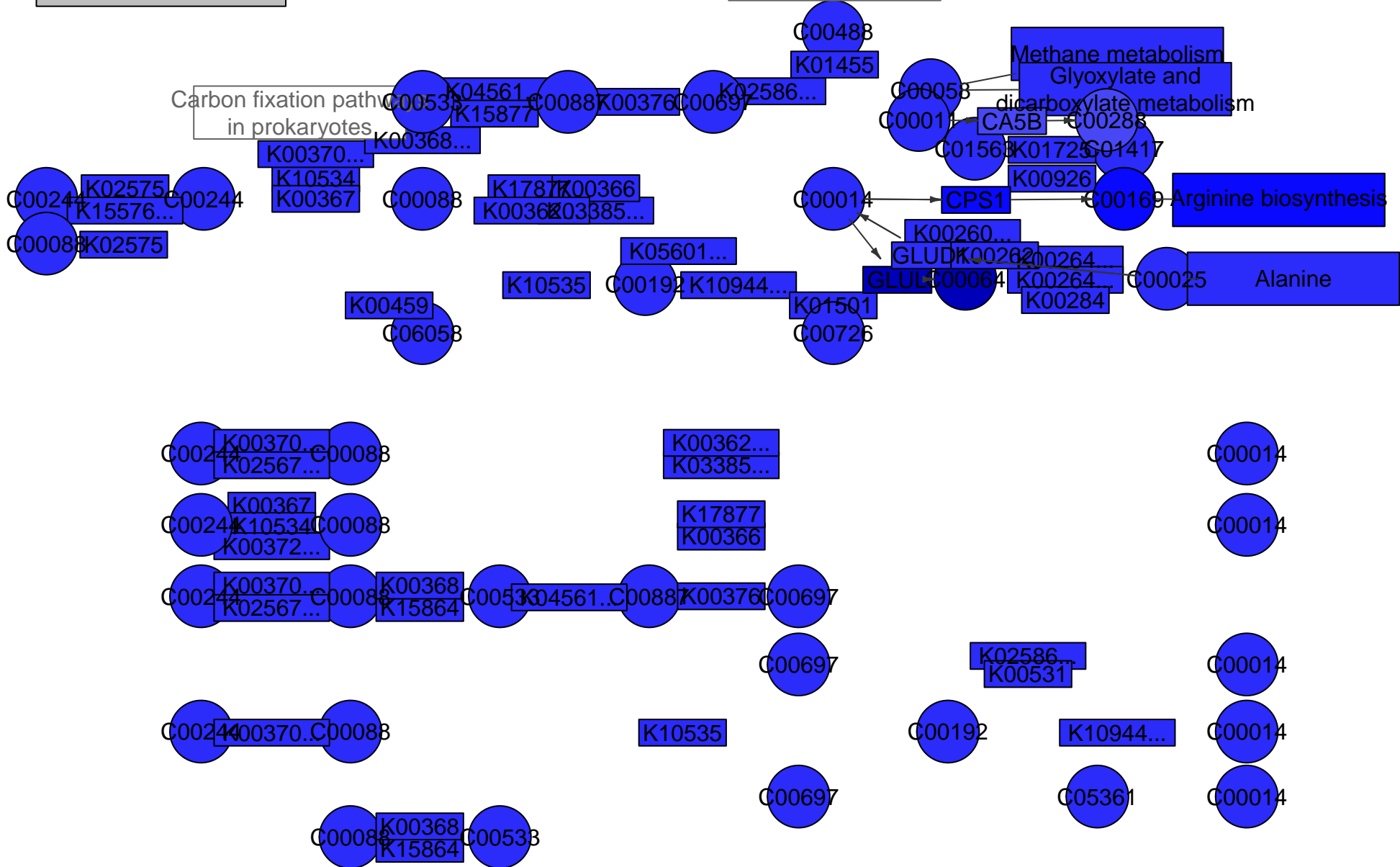
Arginine biosynthesis

Alanine



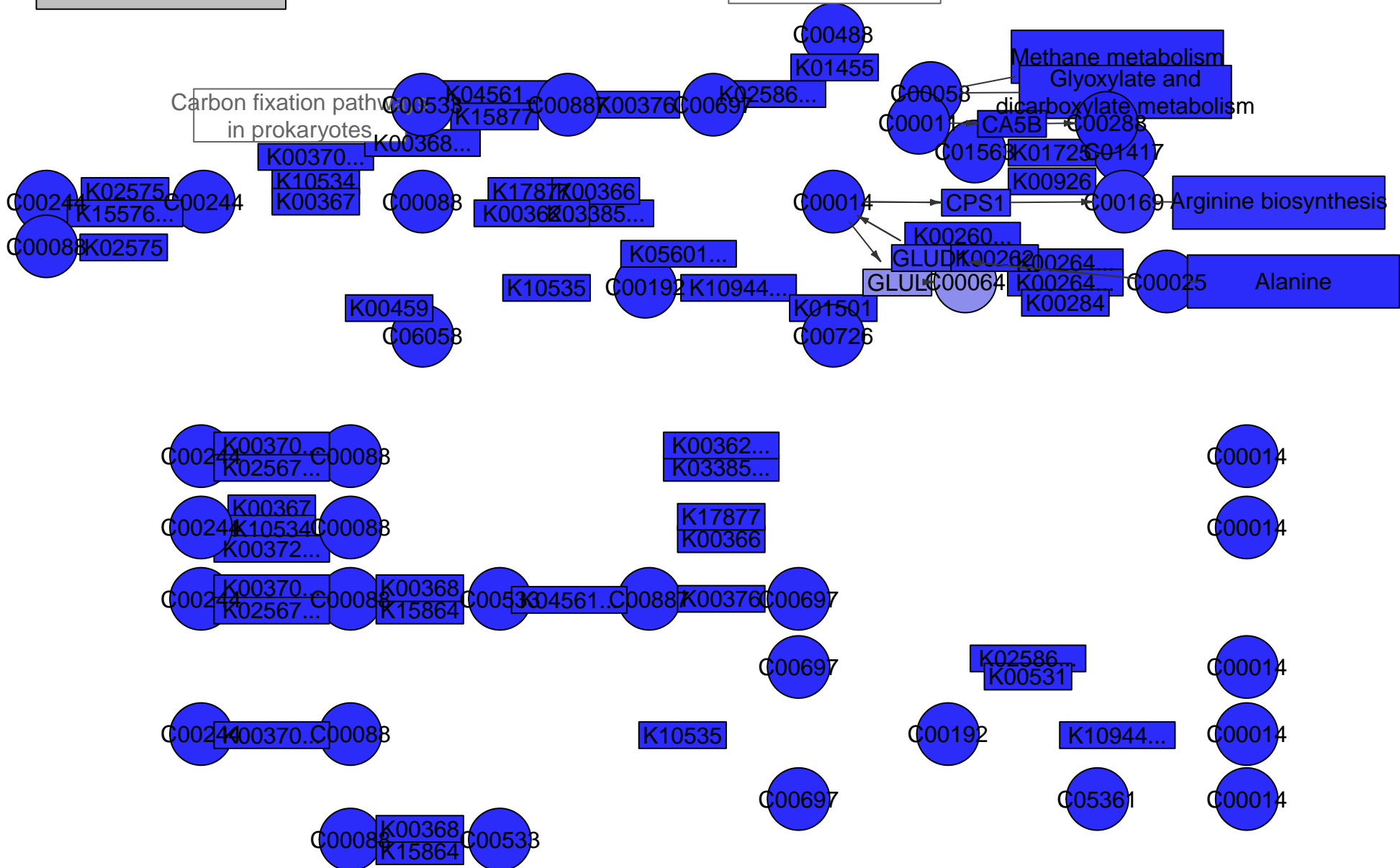
Nitrogen metabolism
MPI-229

Cyanoamino acid
metabolism



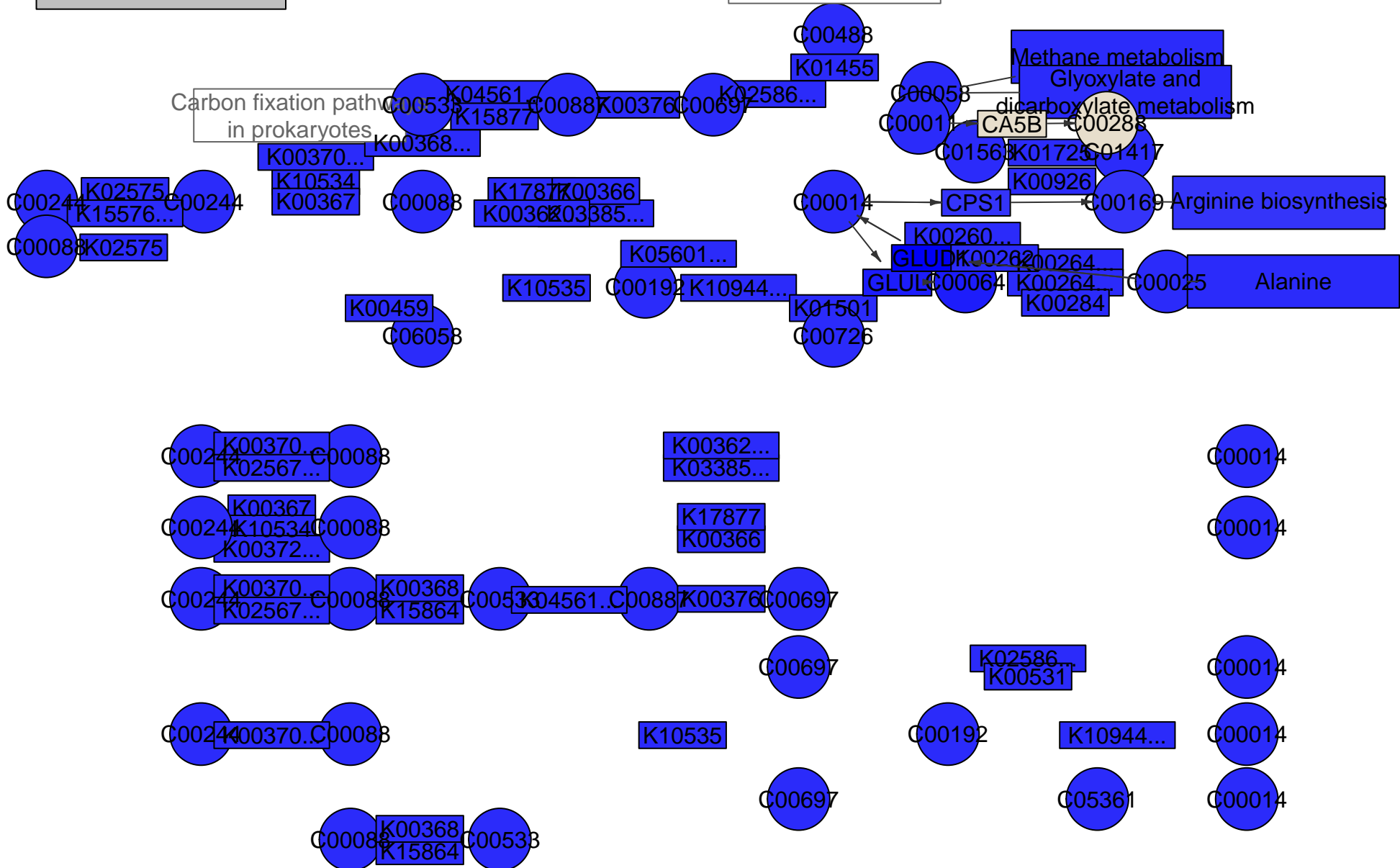
Nitrogen metabolism
MPI-230

Cyanoamino acid
metabolism



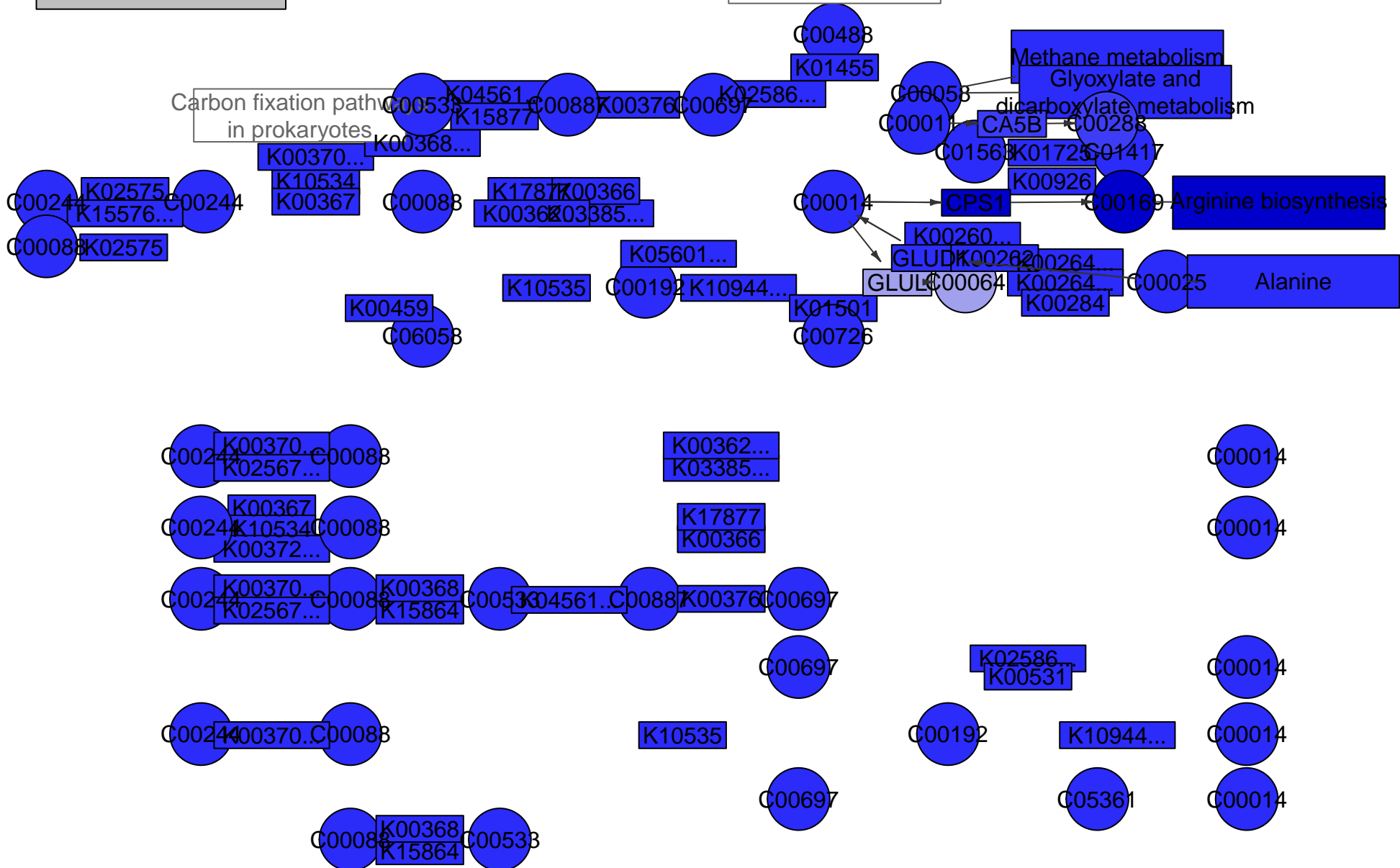
Nitrogen metabolism
MPI-233

Cyanoamino acid
metabolism



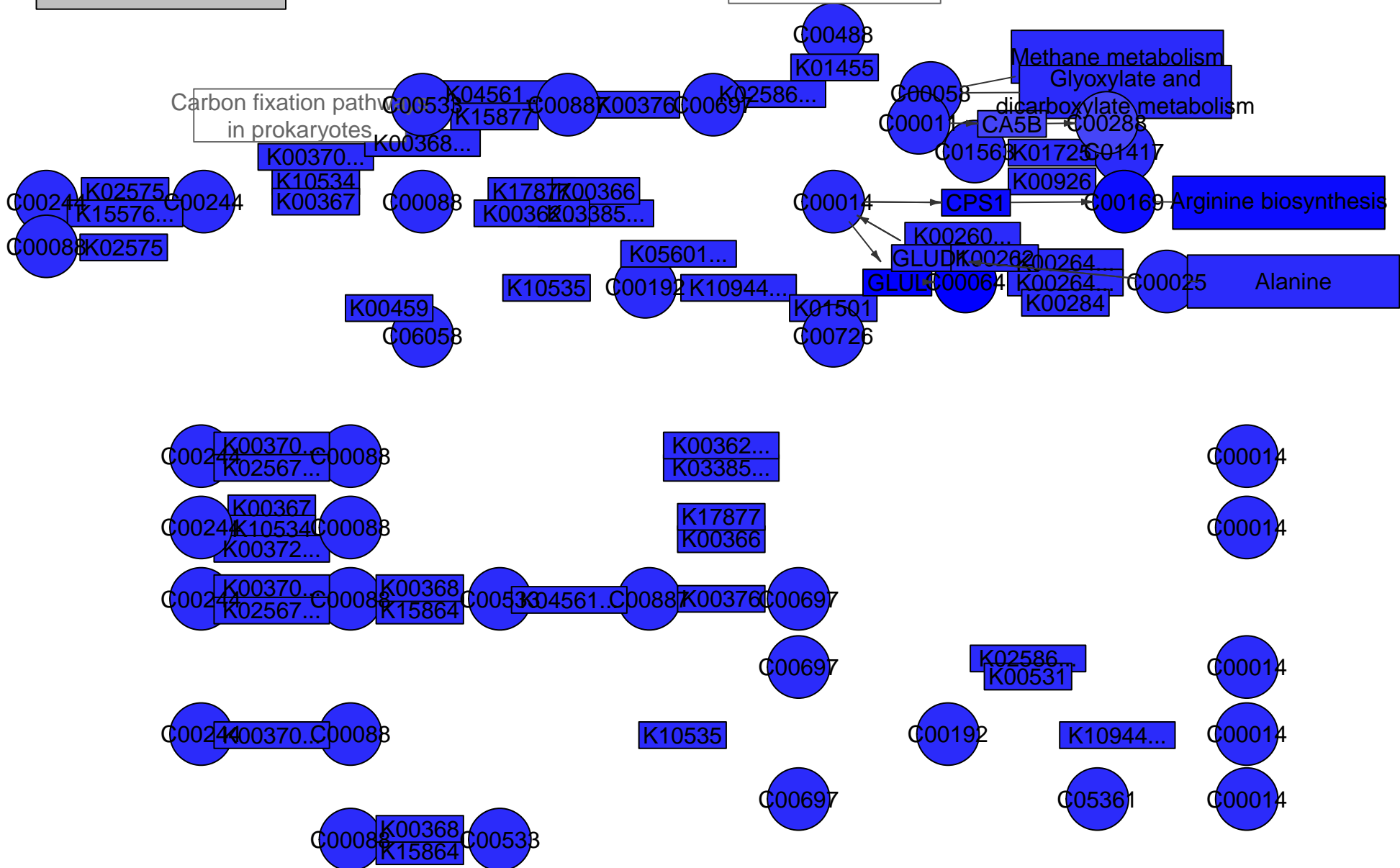
Nitrogen metabolism
MPI-234

Cyanoamino acid
metabolism



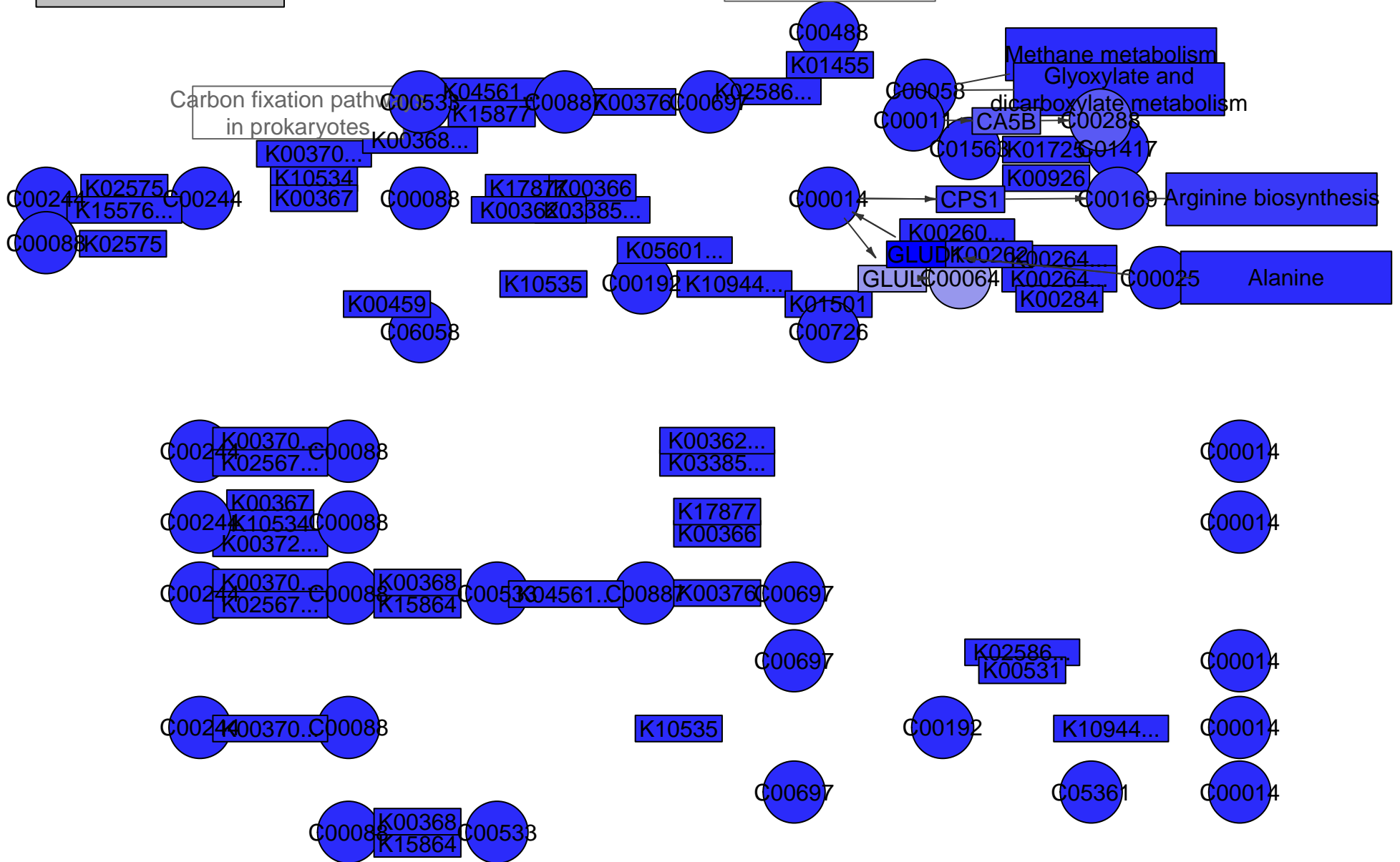
Nitrogen metabolism
MPI-235

Cyanoamino acid
metabolism



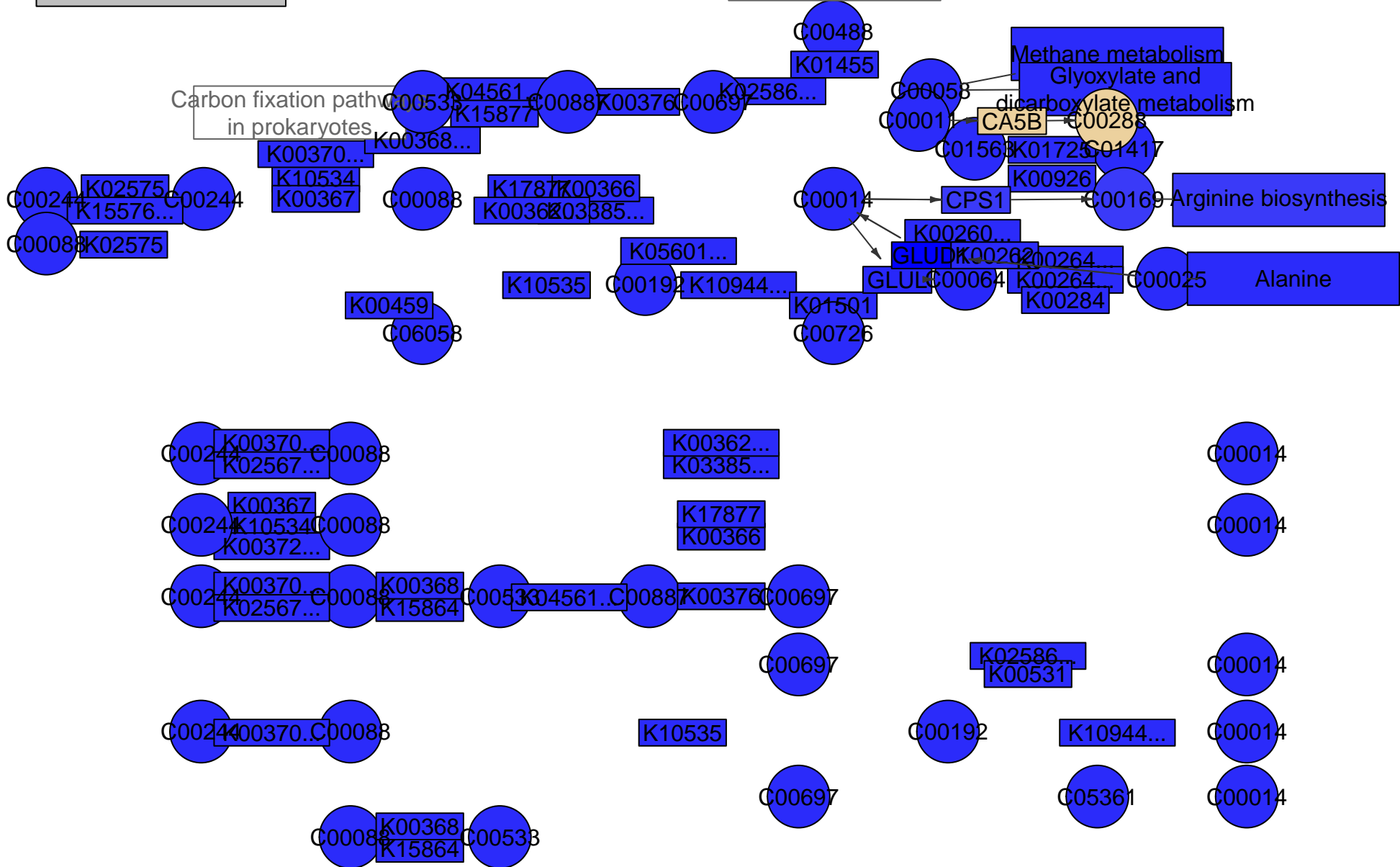
Nitrogen metabolism
MPI-236

Cyanoamino acid
metabolism



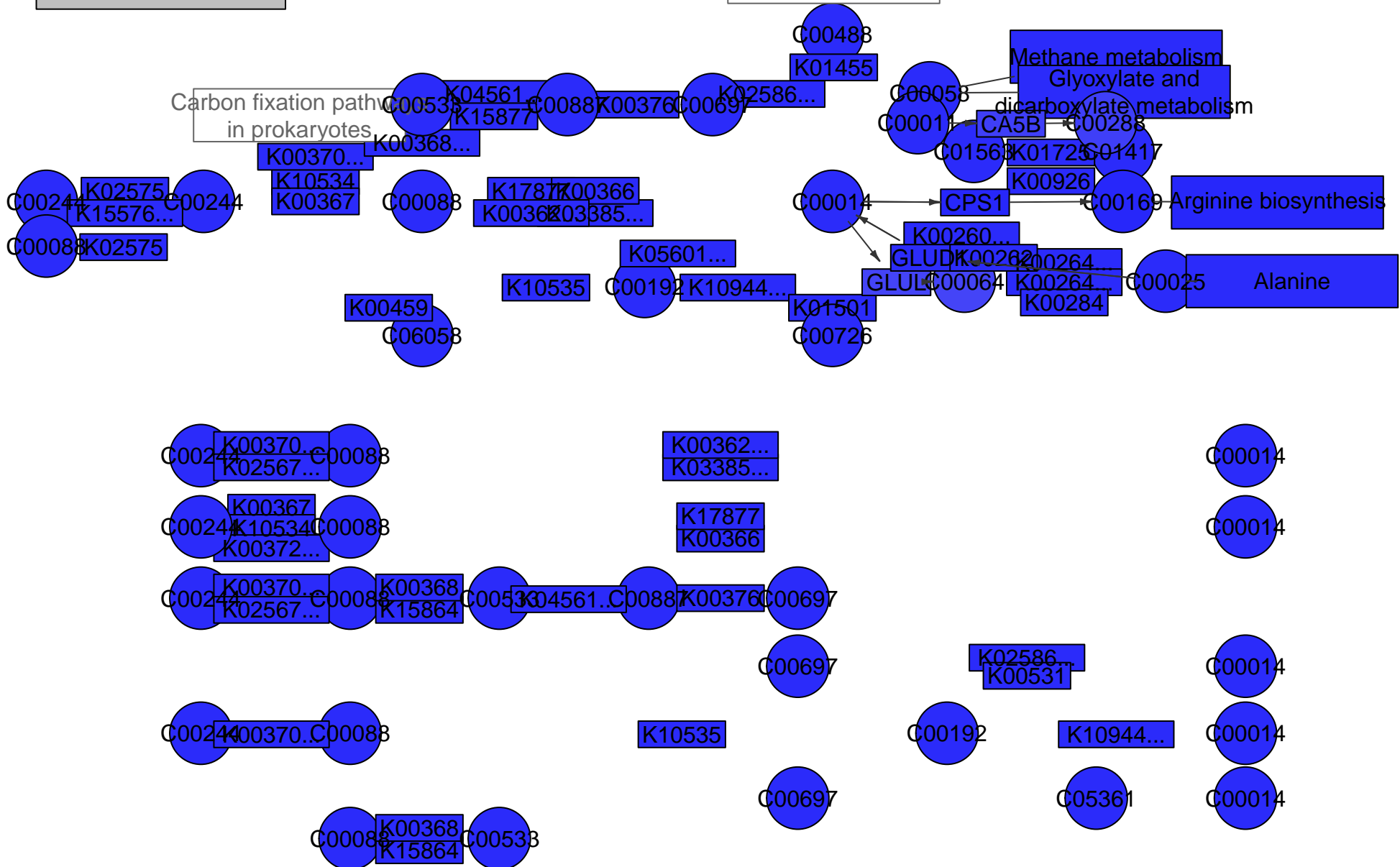
Nitrogen metabolism
MPI-237

Cyanoamino acid
metabolism



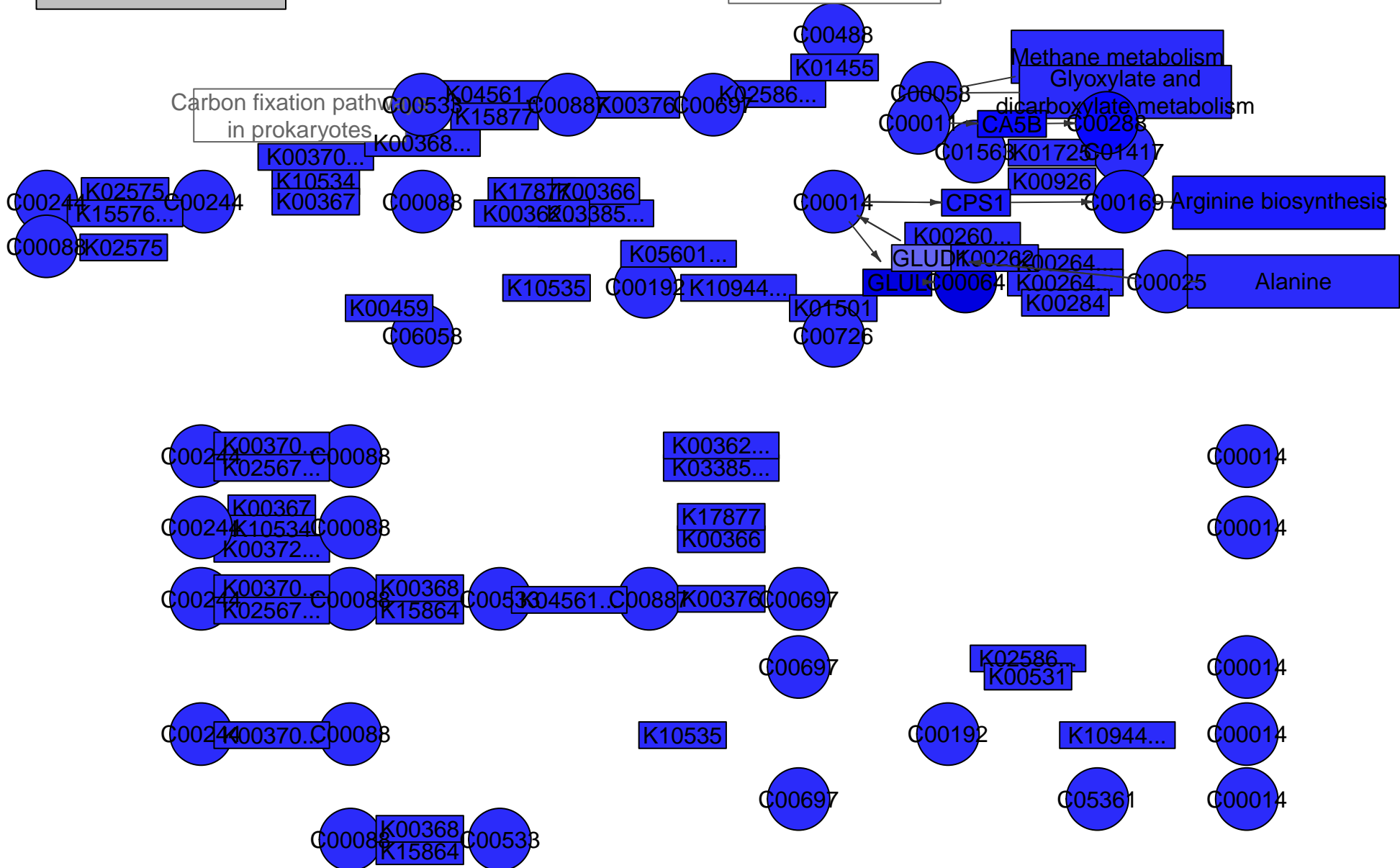
Nitrogen metabolism
MPI-239

Cyanoamino acid
metabolism



Nitrogen metabolism
MPI-251

Cyanoamino acid
metabolism



Nitrogen metabolism
MPI-255

Cyanoamino acid
metabolism

