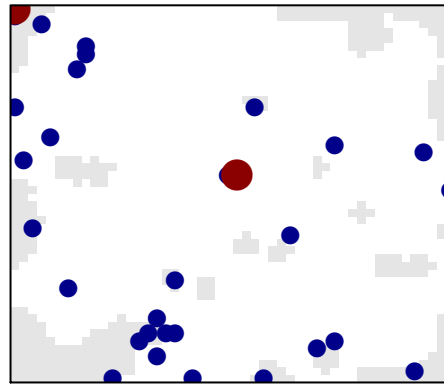
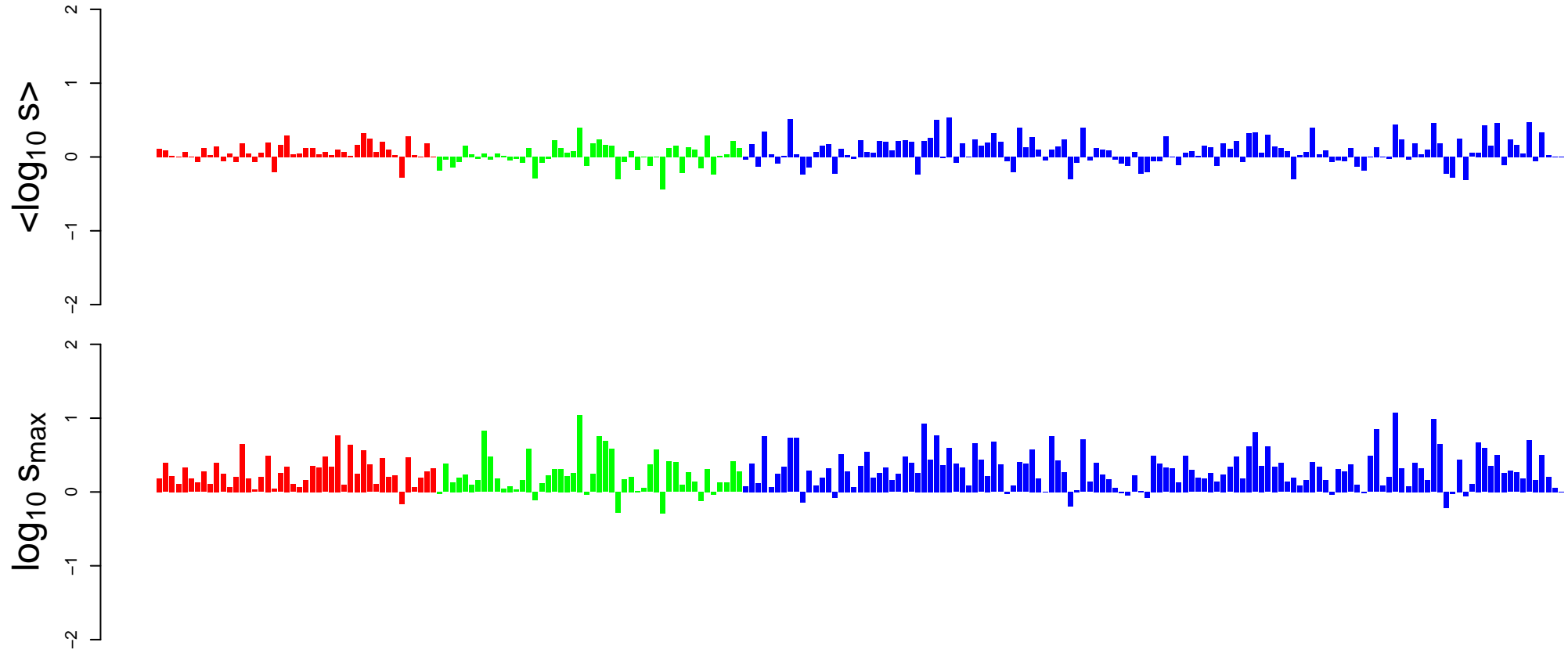
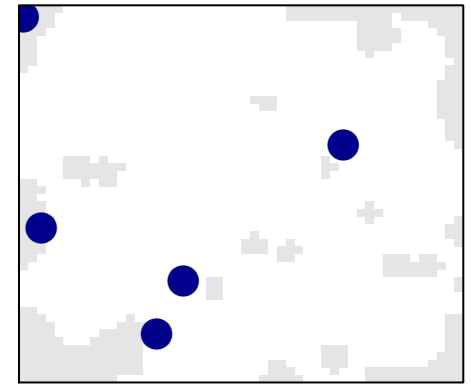


# Dorso-ventral axis formation

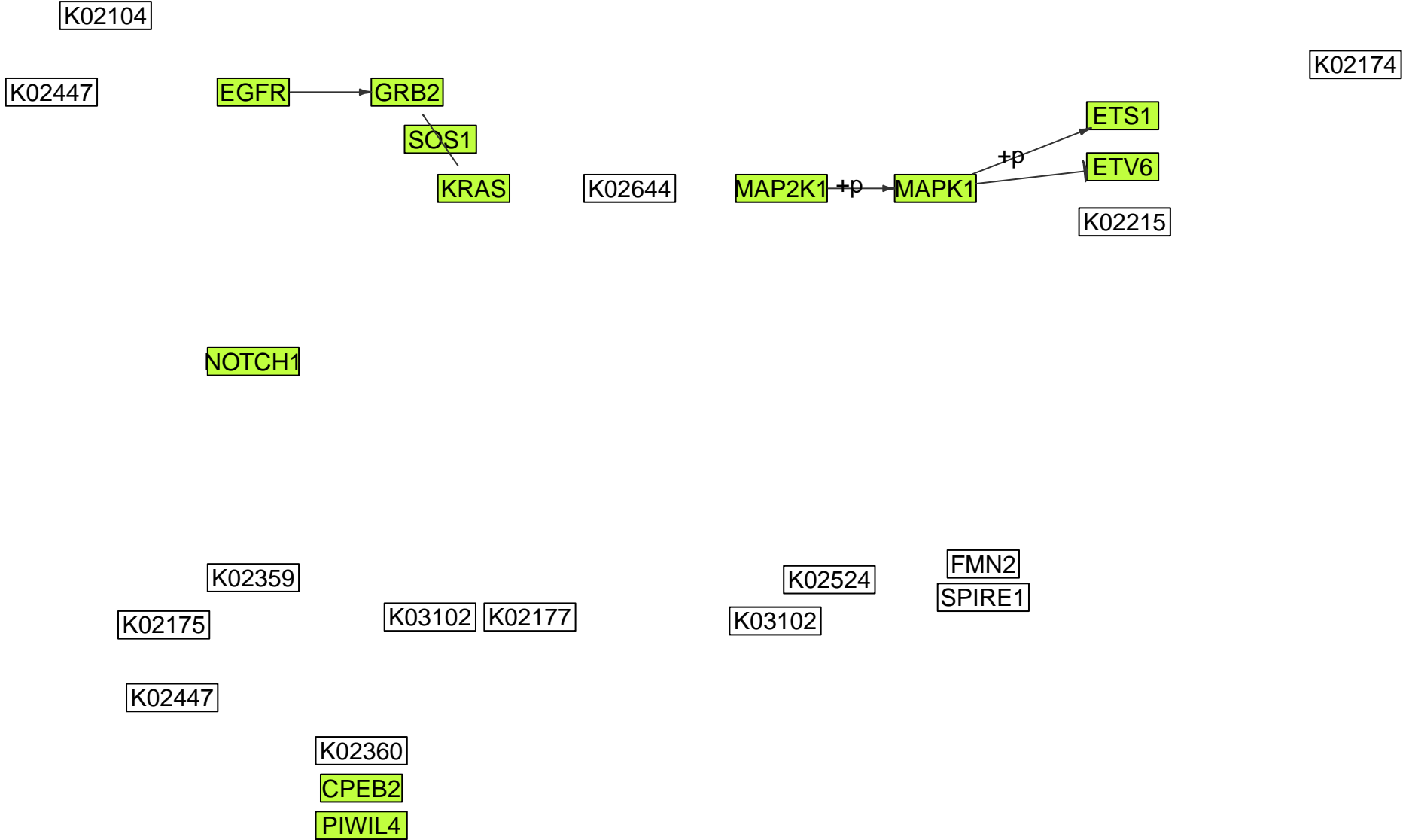
all genes



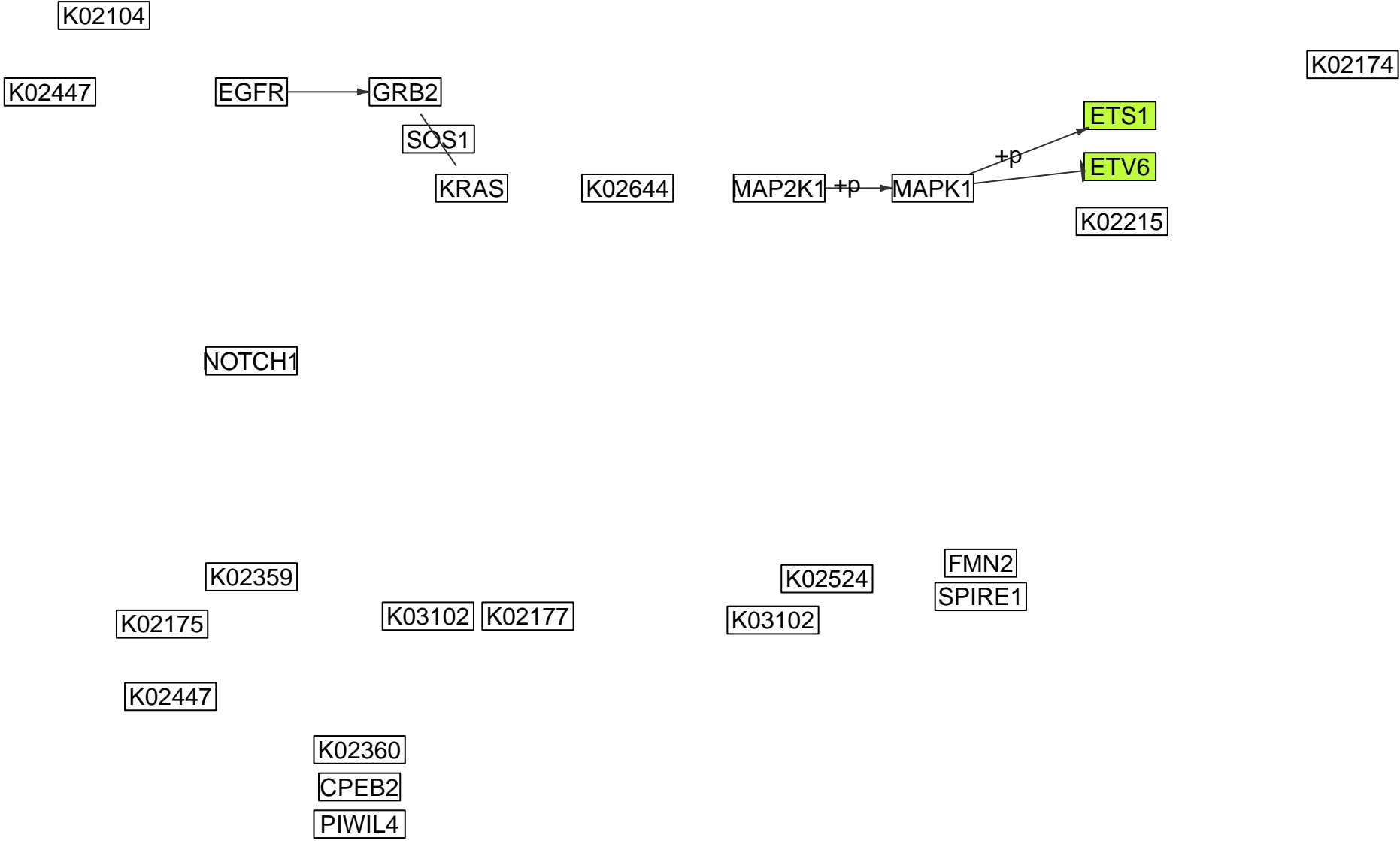
sink node genes



Dorso-ventral axis formation  
(genes with data)



Dorso-ventral axis formation (sink nodes)



Dorso-ventral axis  
formation  
MPI-001

K02104

K02447

EGFR

GRB2

SOS1

KRAS

K02644

MAP2K1

MAPK1

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

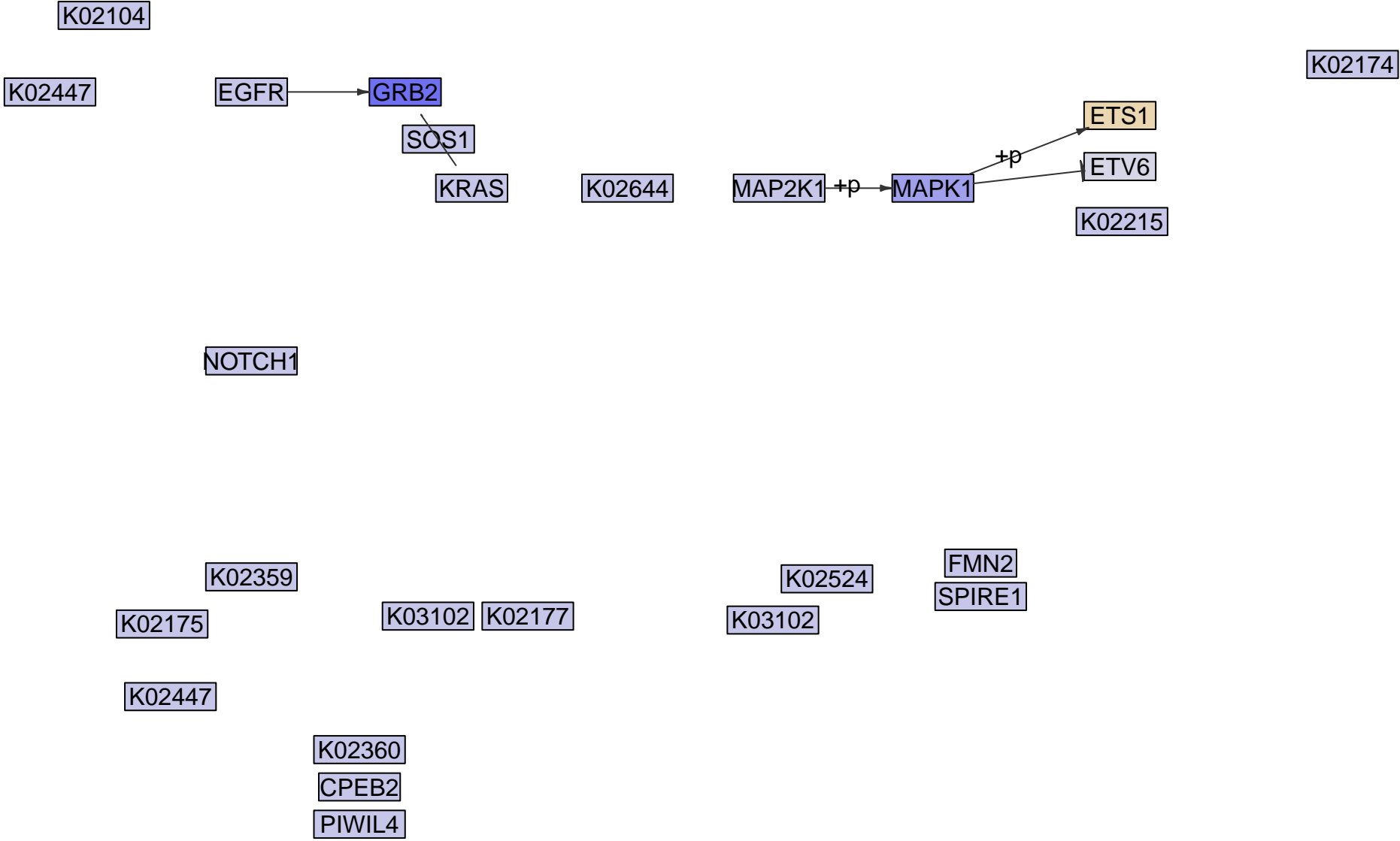
SPIRE1

K02447

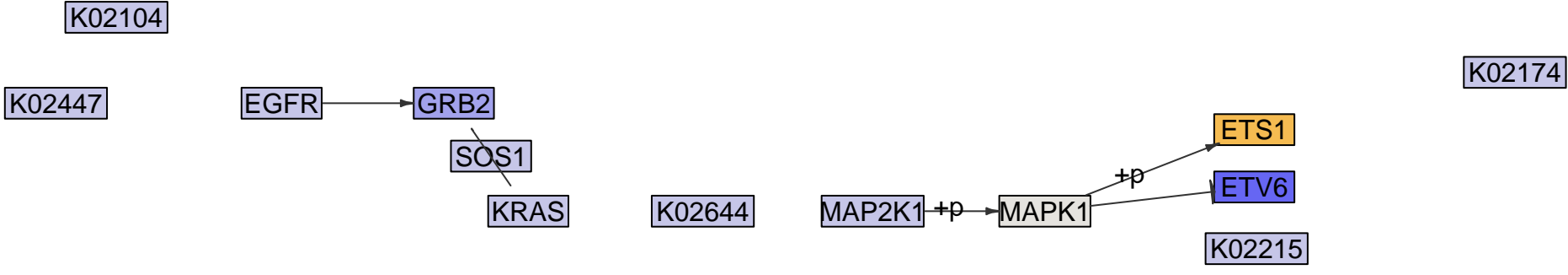
K02360

CPEB2

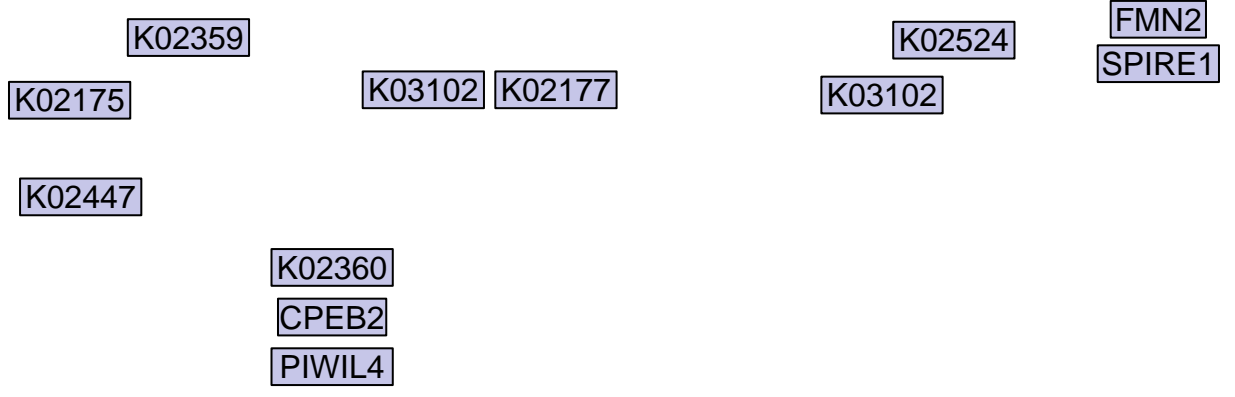
PIWIL4



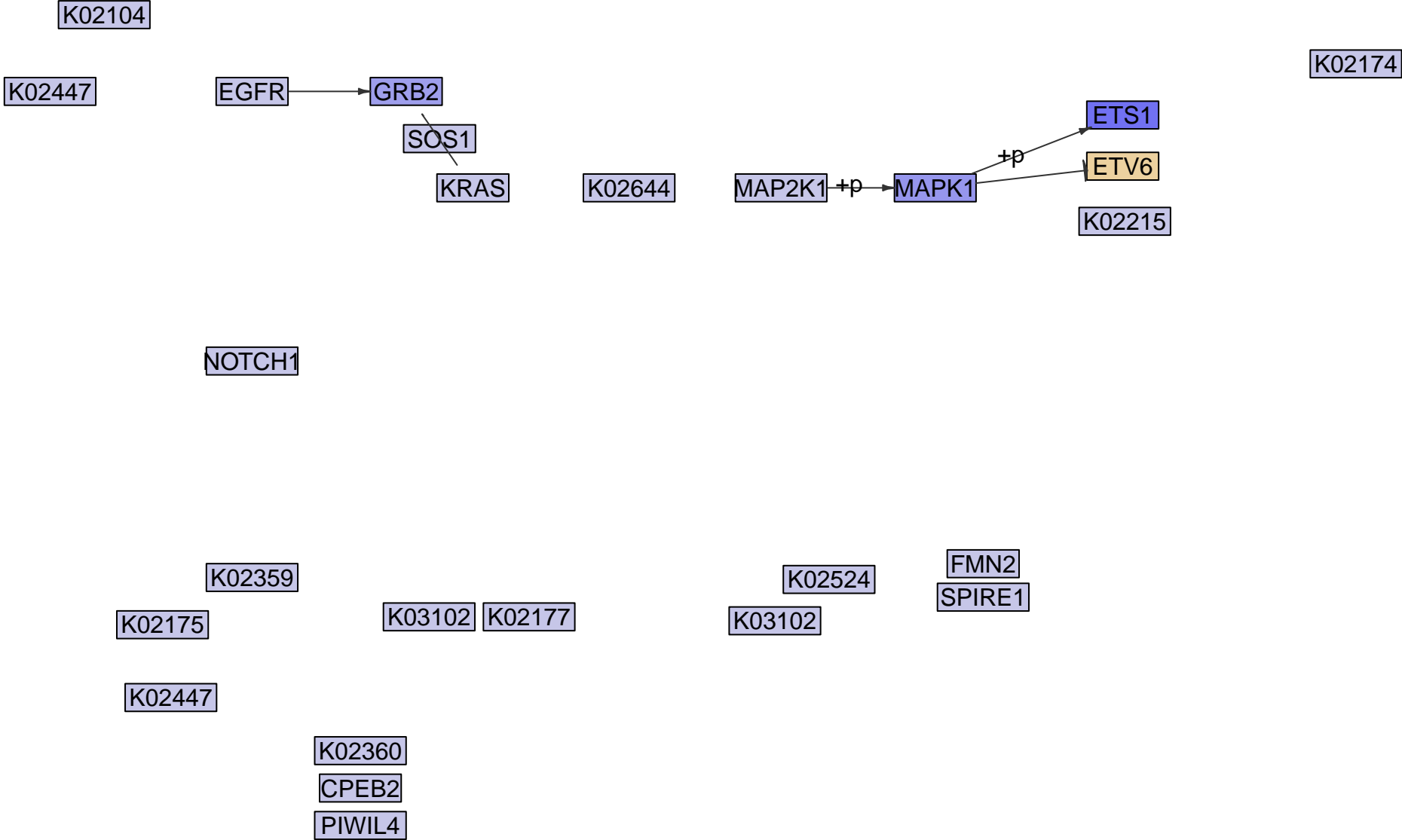
Dorso-ventral axis formation  
MPI-002



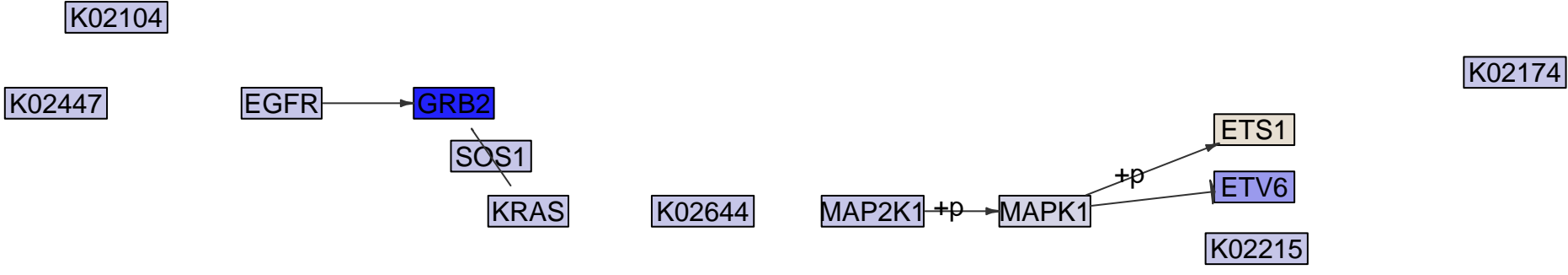
NOTCH1



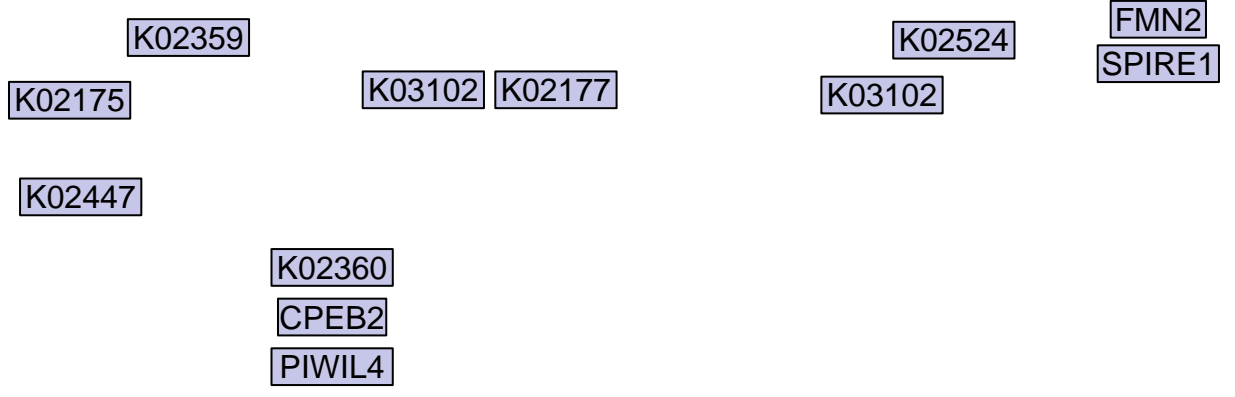
Dorso-ventral axis  
formation  
MPI-003



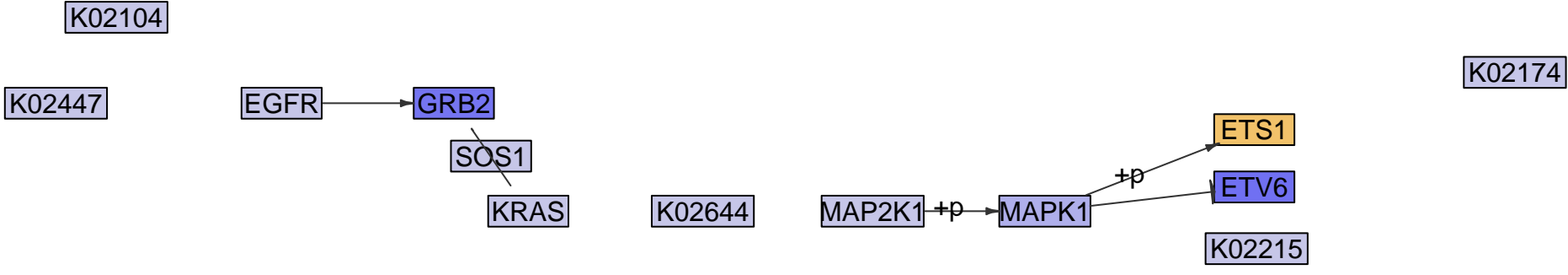
Dorso-ventral axis formation  
MPI-005



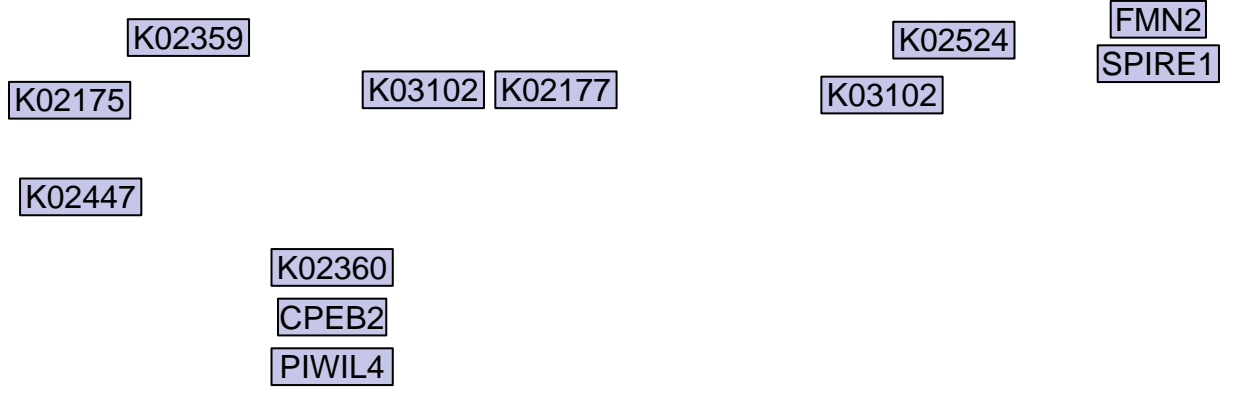
NOTCH1



Dorso-ventral axis formation  
MPI-006



NOTCH1





Dorso-ventral axis  
formation  
MPI-016

K02104

K02447

EGFR



GRB2

SOS1

KRAS

K02644

MAP2K1



MAPK1



ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

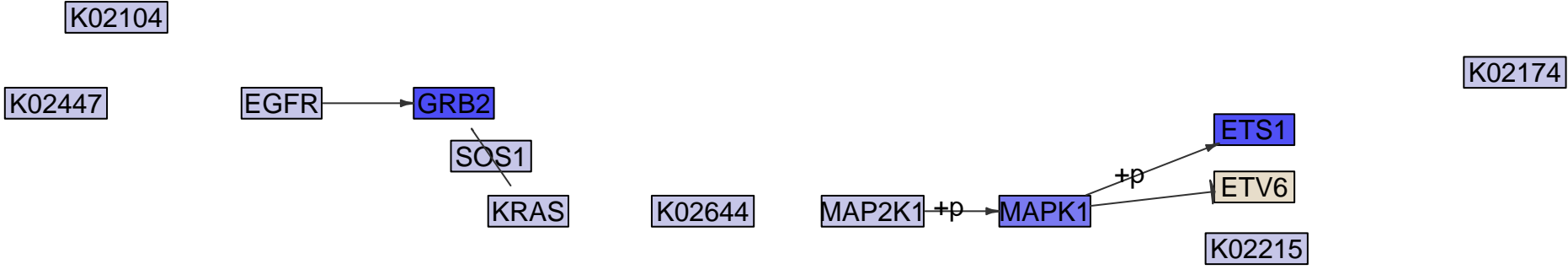
K02447

K02360

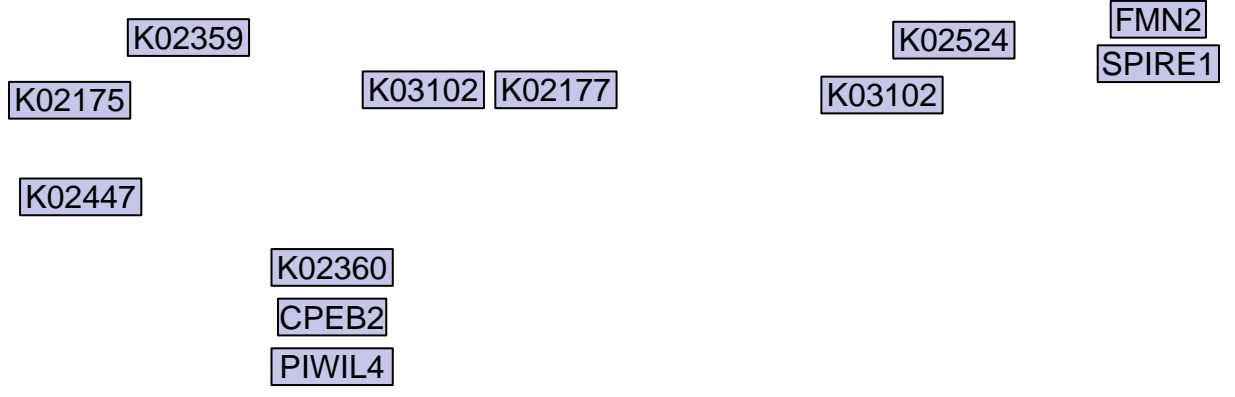
CPEB2

PIWIL4

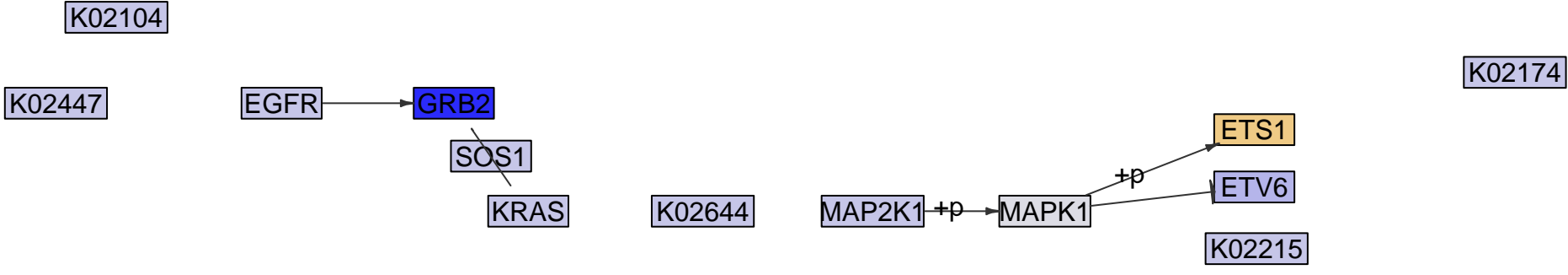
Dorso-ventral axis formation  
MPI-017



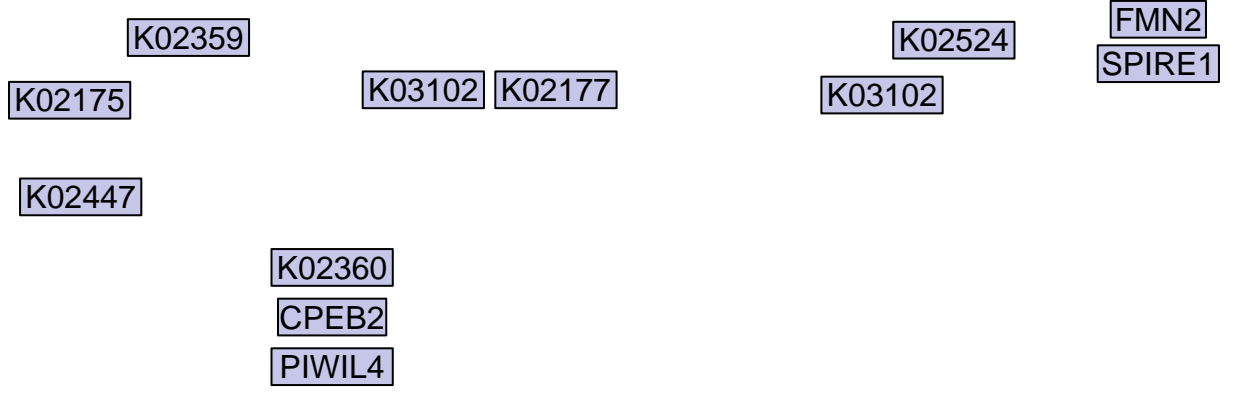
NOTCH1



Dorso-ventral axis formation  
MPI-018



NOTCH1



Dorso-ventral axis  
formation  
MPI-027

K02104

K02447

EGFR

GRB2

SOS1

KRAS

K02644

MAP2K1

+p

MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

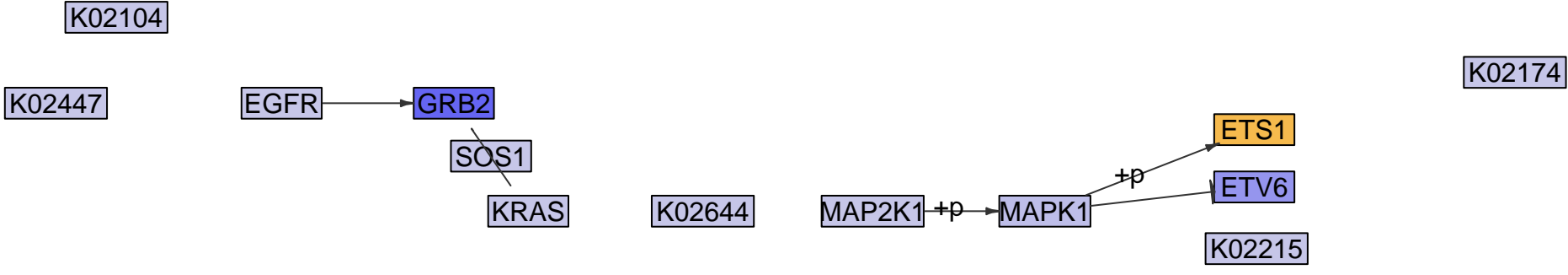
K02447

K02360

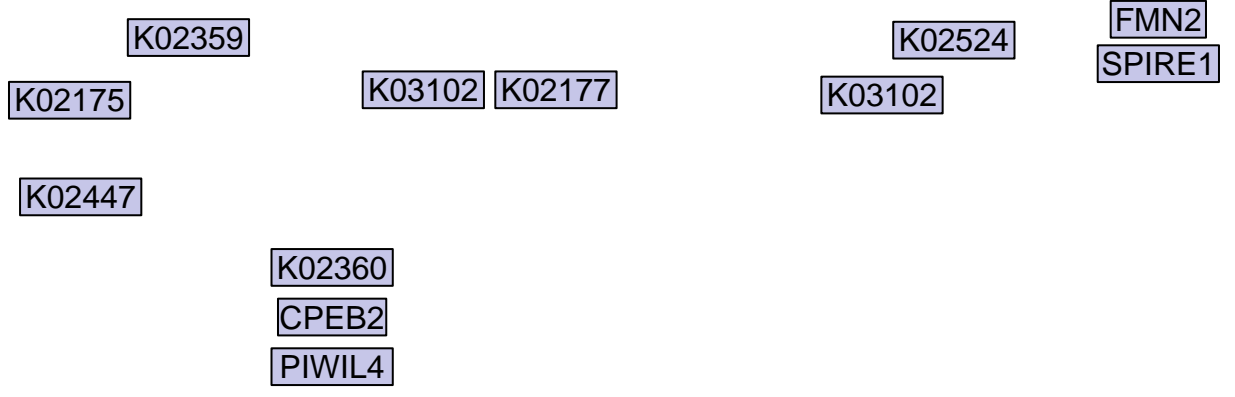
CPEB2

PIWIL4

Dorso-ventral axis formation  
MPI-028



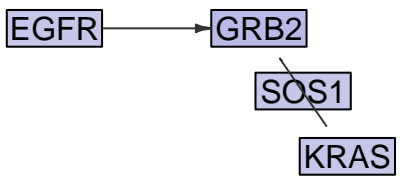
NOTCH1



Dorso-ventral axis  
formation  
MPI-032

K02104

K02447



K02644

MAP2K1

+p

MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-033

K02104

K02447

EGFR

GRB2

SOS1

KRAS

K02644

MAP2K1

+p

MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

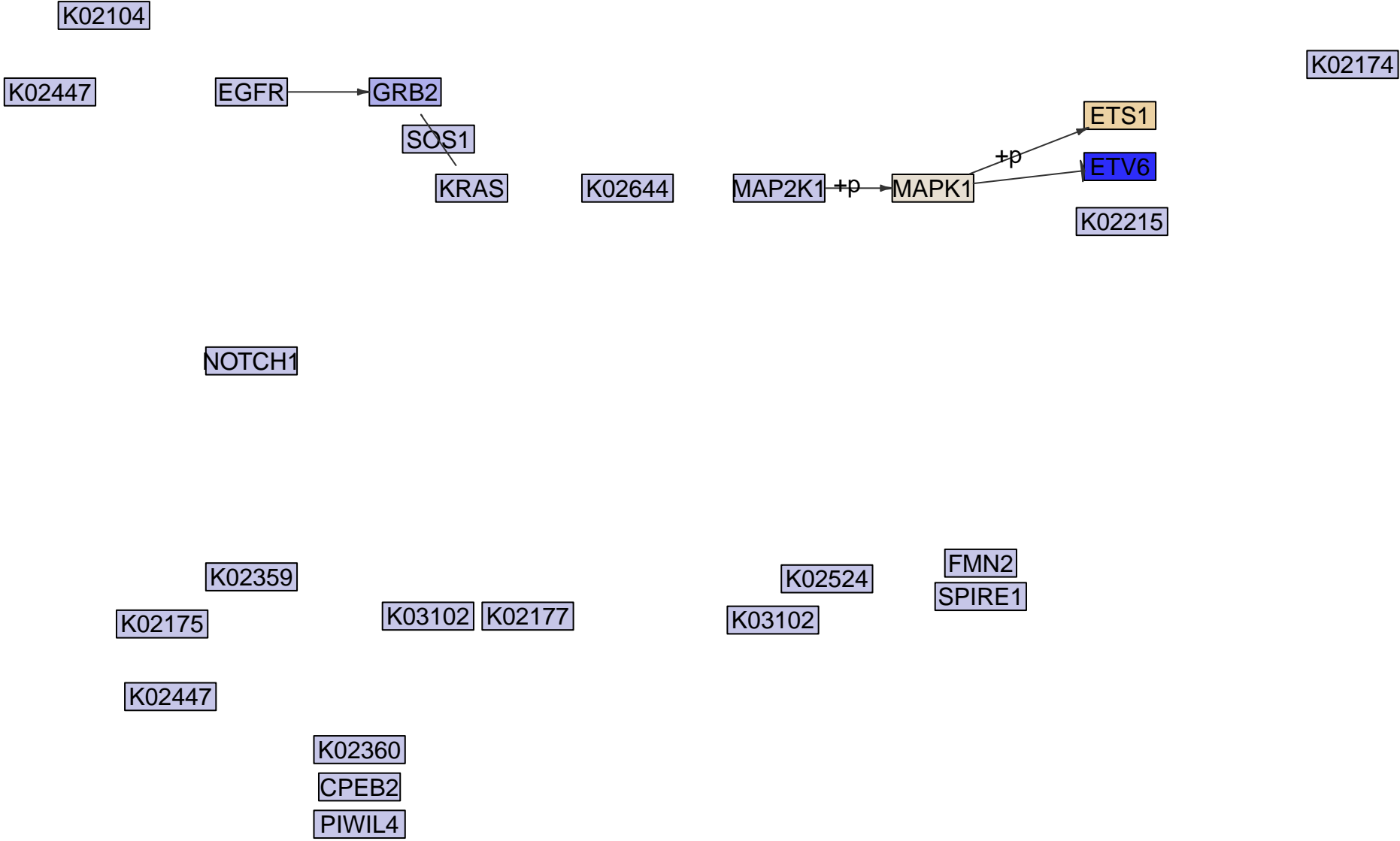
K02447

K02360

CPEB2

PIWIL4

Dorso-ventral axis formation  
MPI-034

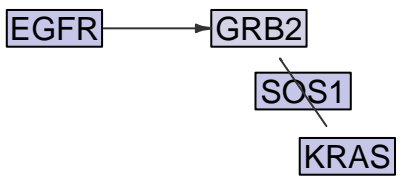




Dorso-ventral axis  
formation  
MPI-043

K02104

K02447



K02644

MAP2K1

+p

MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

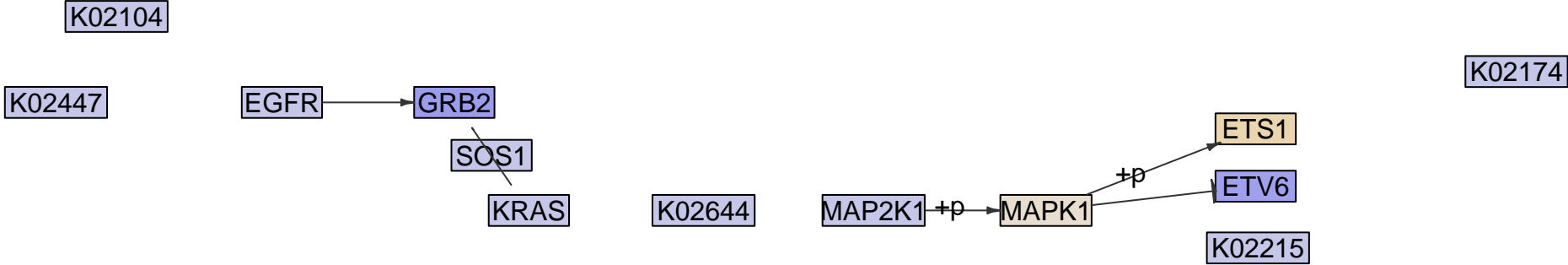
K02447

K02360

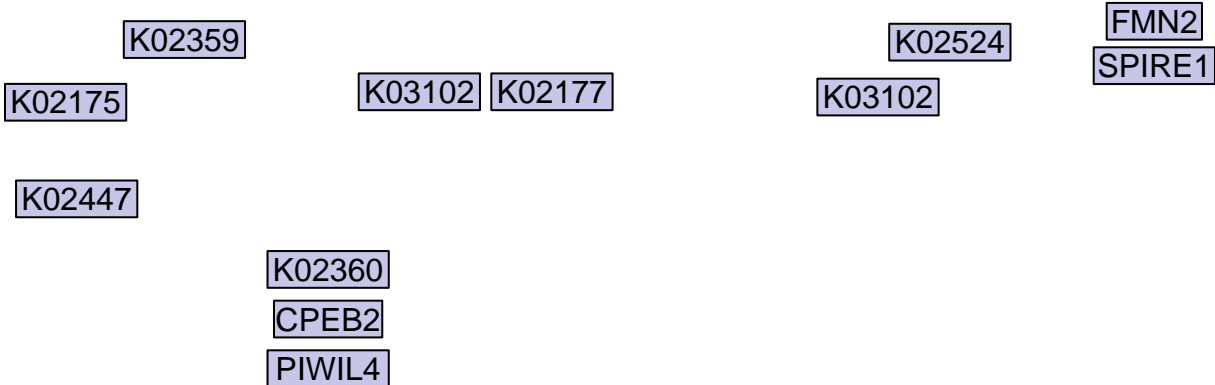
CPEB2

PIWIL4

Dorso-ventral axis formation  
MPI-044



NOTCH1



Dorso-ventral axis  
formation  
MPI-048

K02104

K02447

EGFR



GRB2

SOS1

KRAS

K02644

MAP2K1



MAPK1



ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

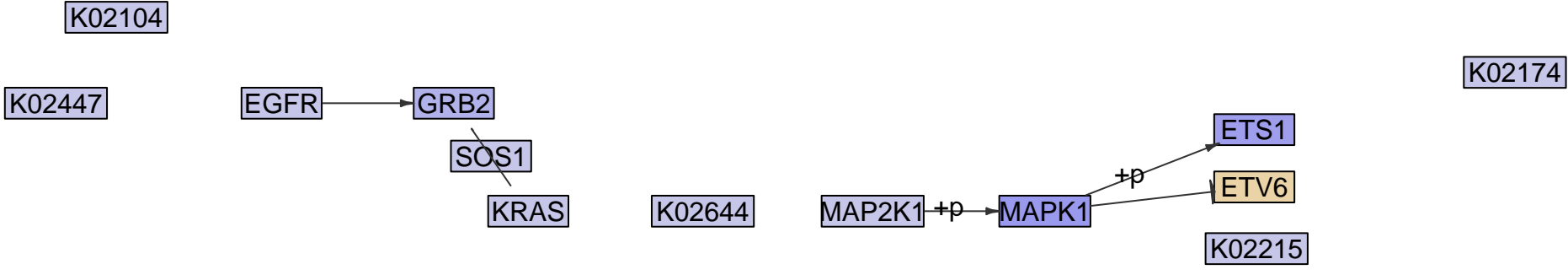
K02447

K02360

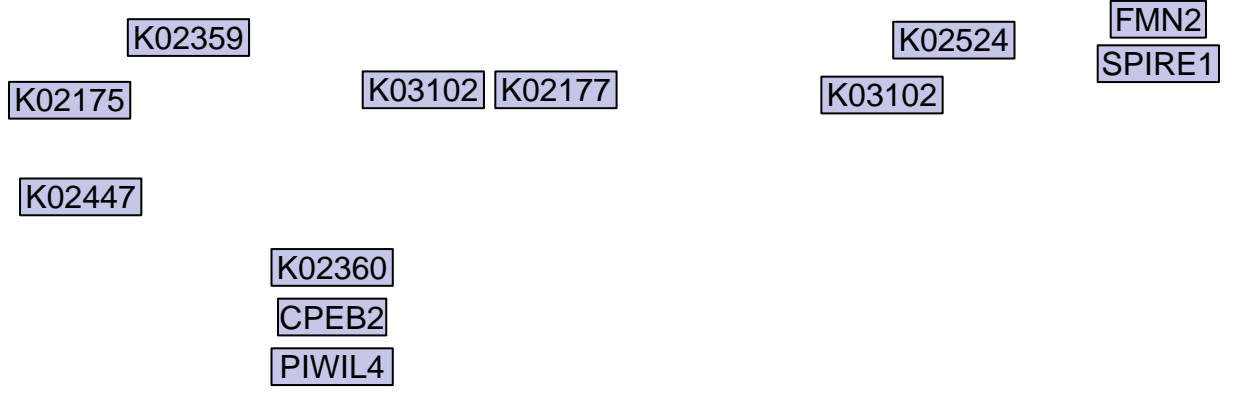
CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-055



NOTCH1



Dorso-ventral axis  
formation  
MPI-065

K02104

K02447

EGFR



GRB2

SOS1

KRAS

K02644

MAP2K1



MAPK1



ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

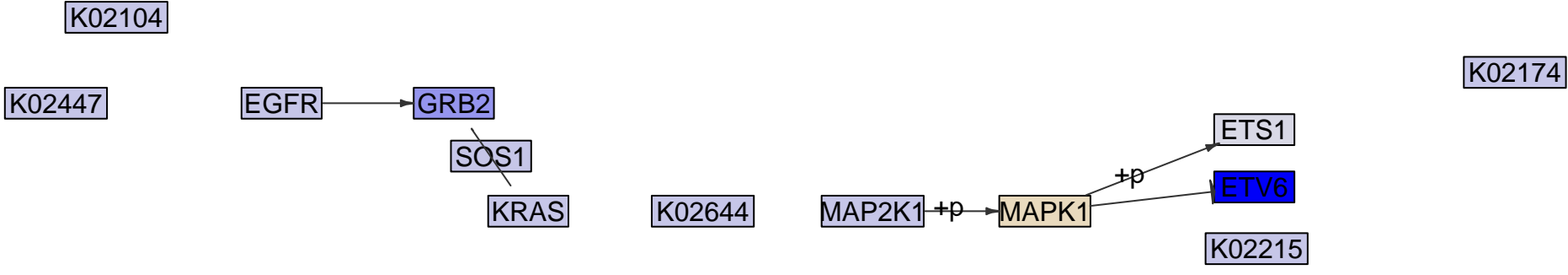
K02447

K02360

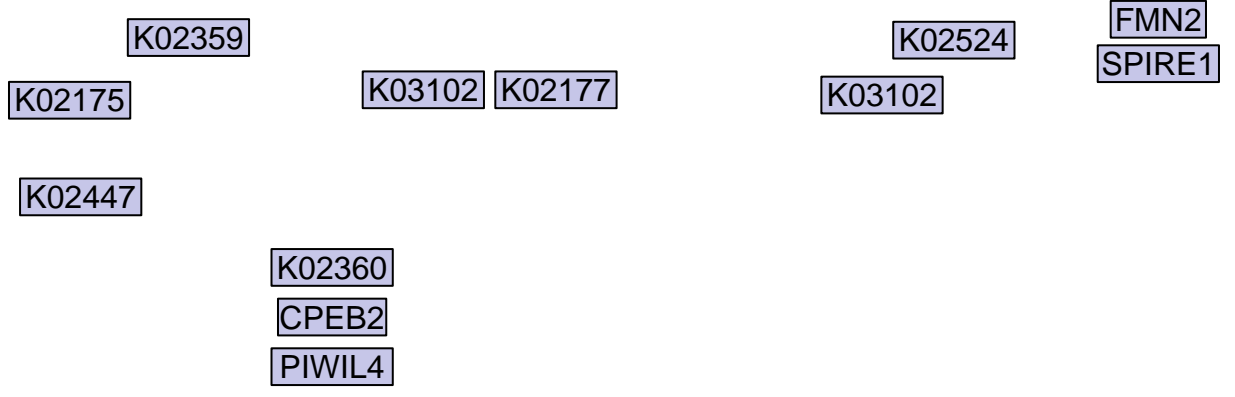
CPEB2

PIWIL4

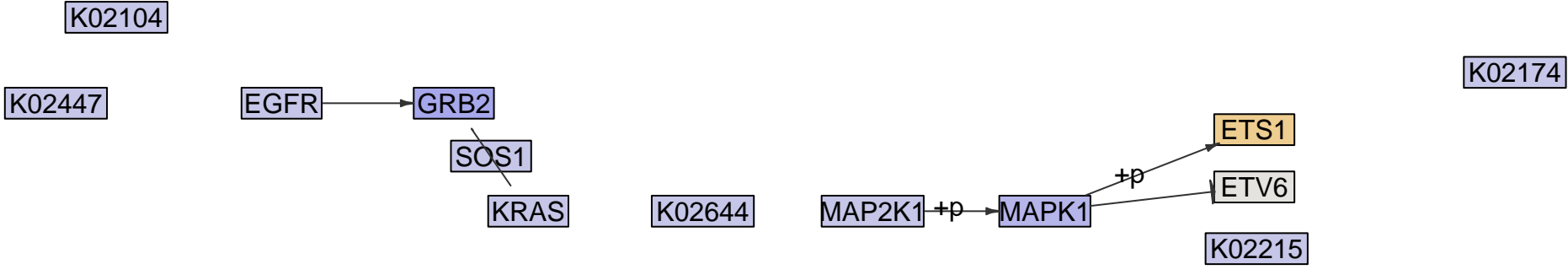
Dorso-ventral axis formation  
MPI-071



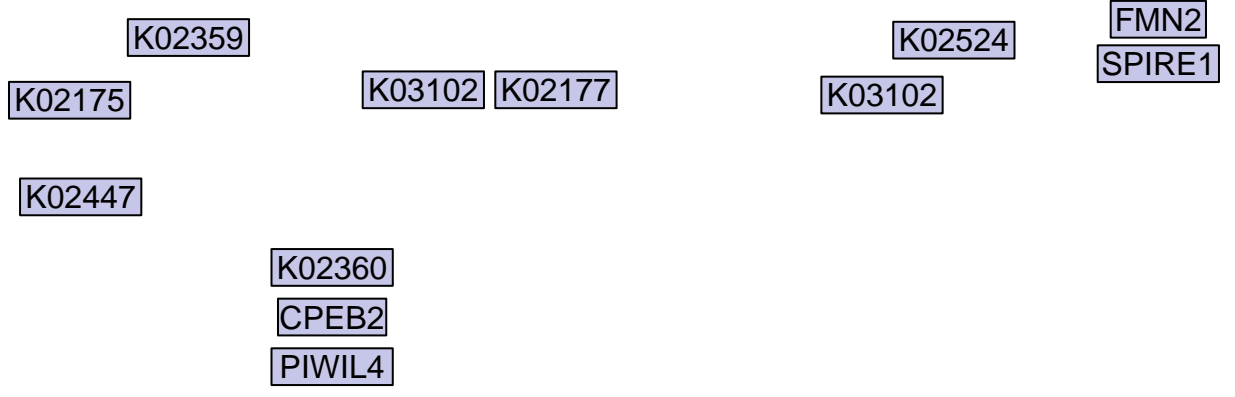
NOTCH1



Dorso-ventral axis formation  
MPI-075



NOTCH1



Dorso-ventral axis  
formation  
MPI-077

K02104

K02447

EGFR



GRB2

SOS1

KRAS

K02644

MAP2K1



MAPK1



ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

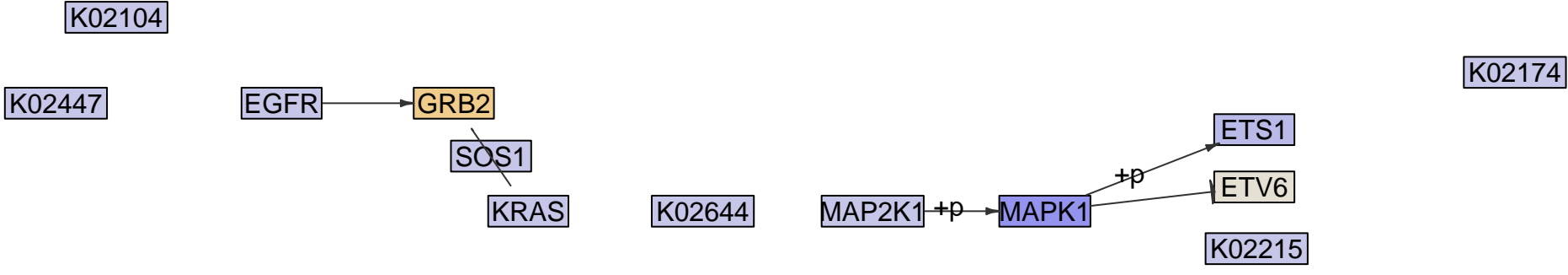
K02360

CPEB2

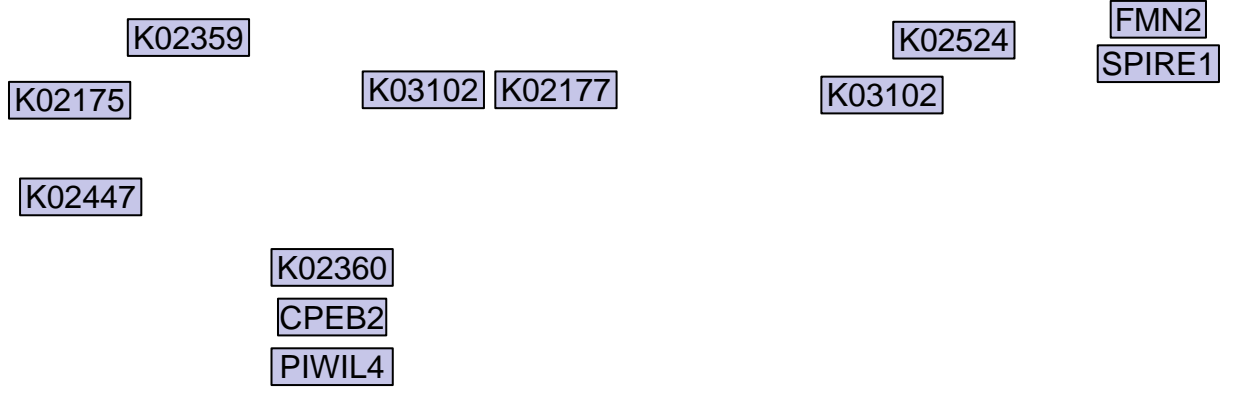
PIWIL4



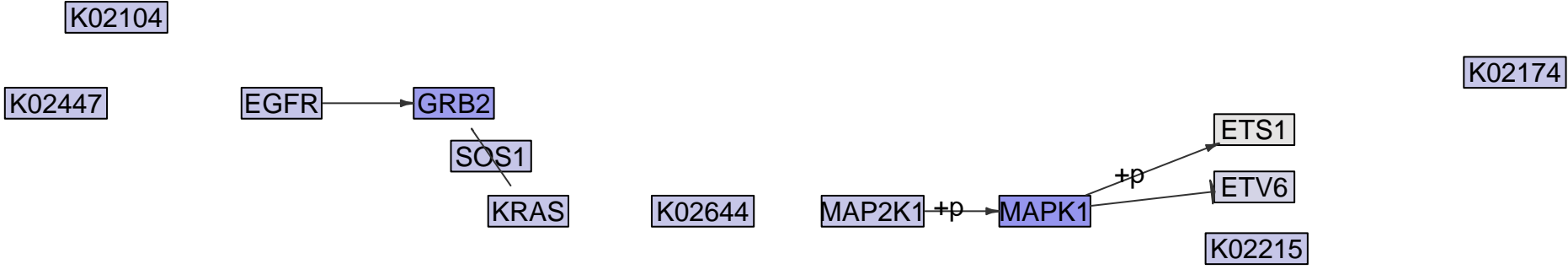
Dorso-ventral axis formation  
MPI-078



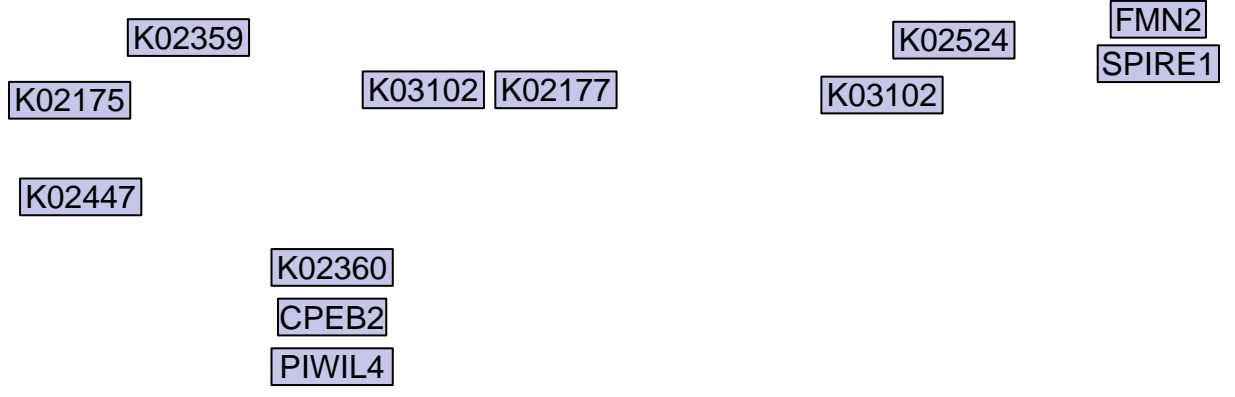
NOTCH1



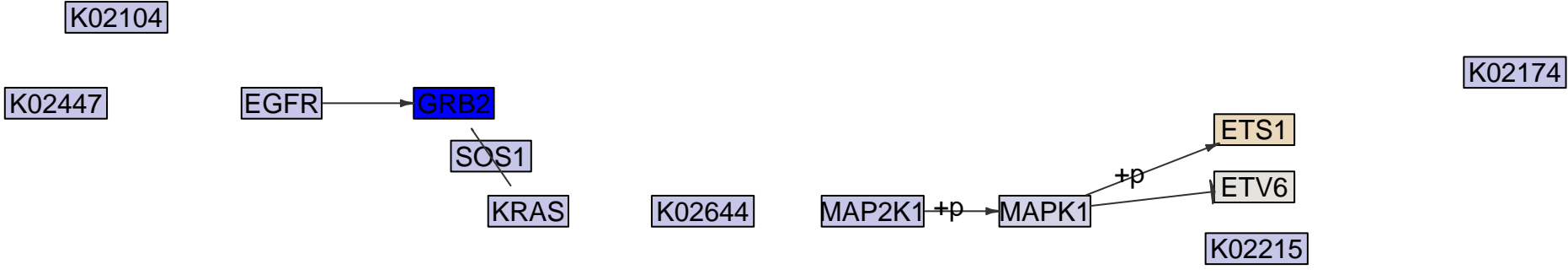
Dorso-ventral axis formation  
MPI-079



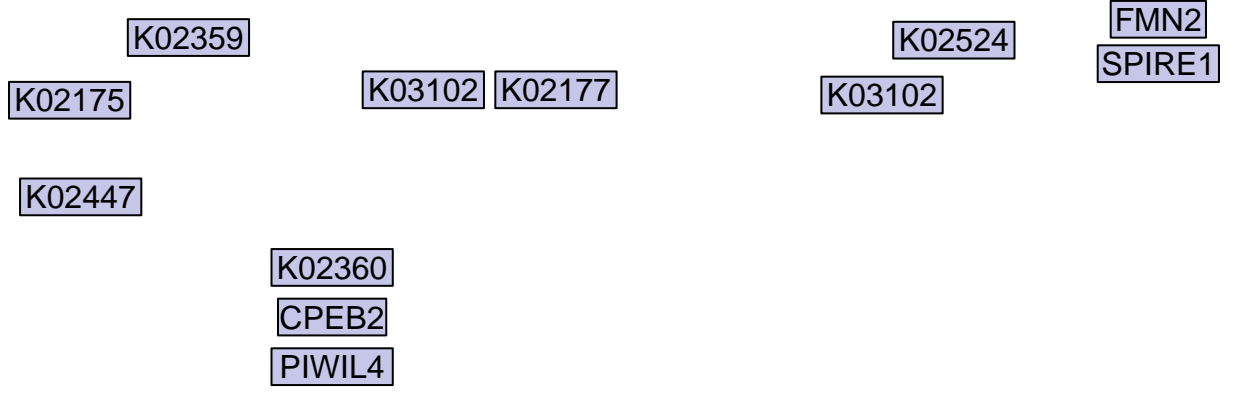
NOTCH1



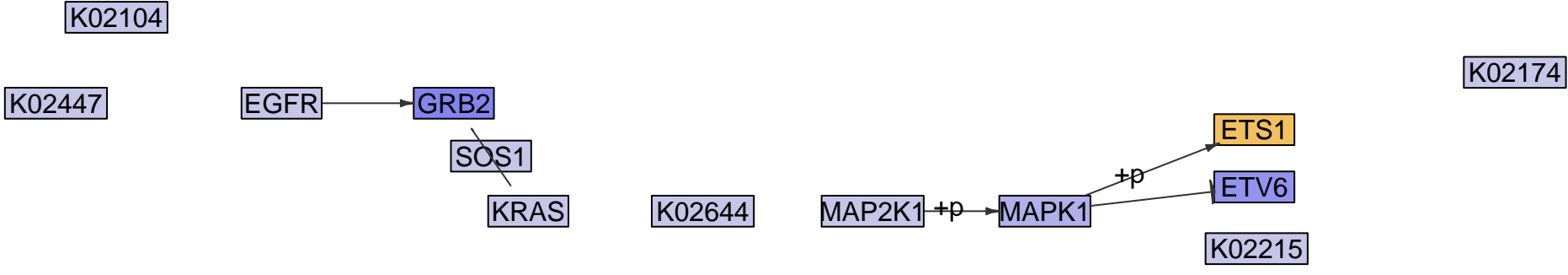
Dorso-ventral axis formation  
MPI-080



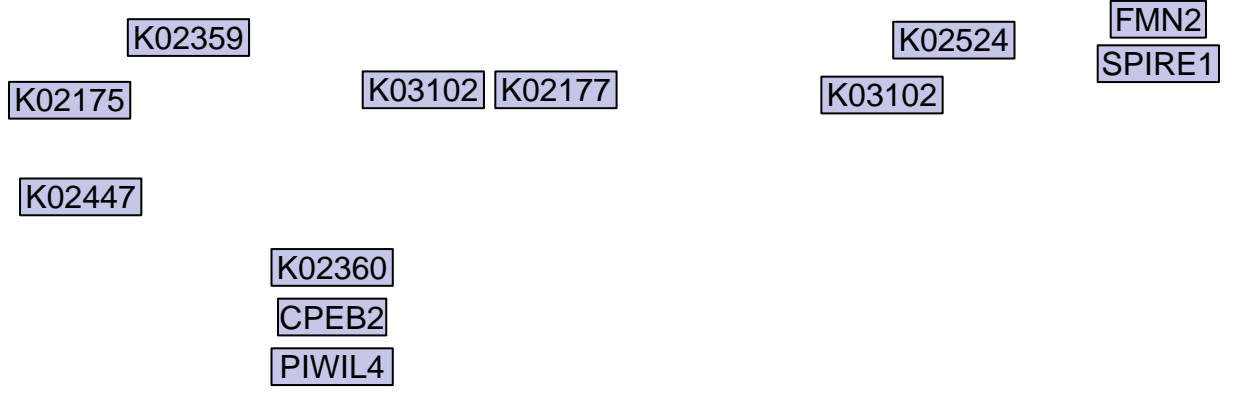
NOTCH1



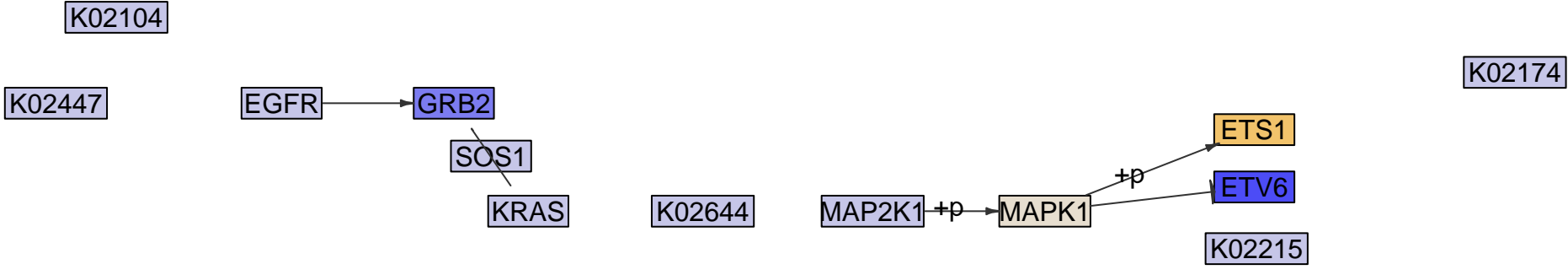
Dorso-ventral axis formation  
MPI-081



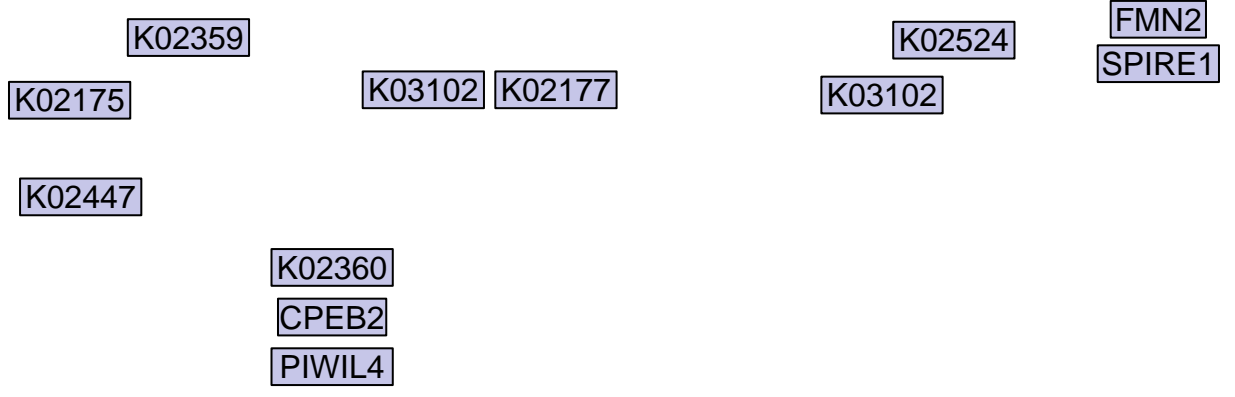
NOTCH1



Dorso-ventral axis  
formation  
MPI-082



NOTCH1



Dorso-ventral axis  
formation  
MPI-084

K02104

K02447

EGFR



GRB2

SOS1

KRAS

K02644

MAP2K1



MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-085

K02104

K02447

EGFR

GRB2

SOS1

KRAS

K02644

MAP2K1

MAPK1

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

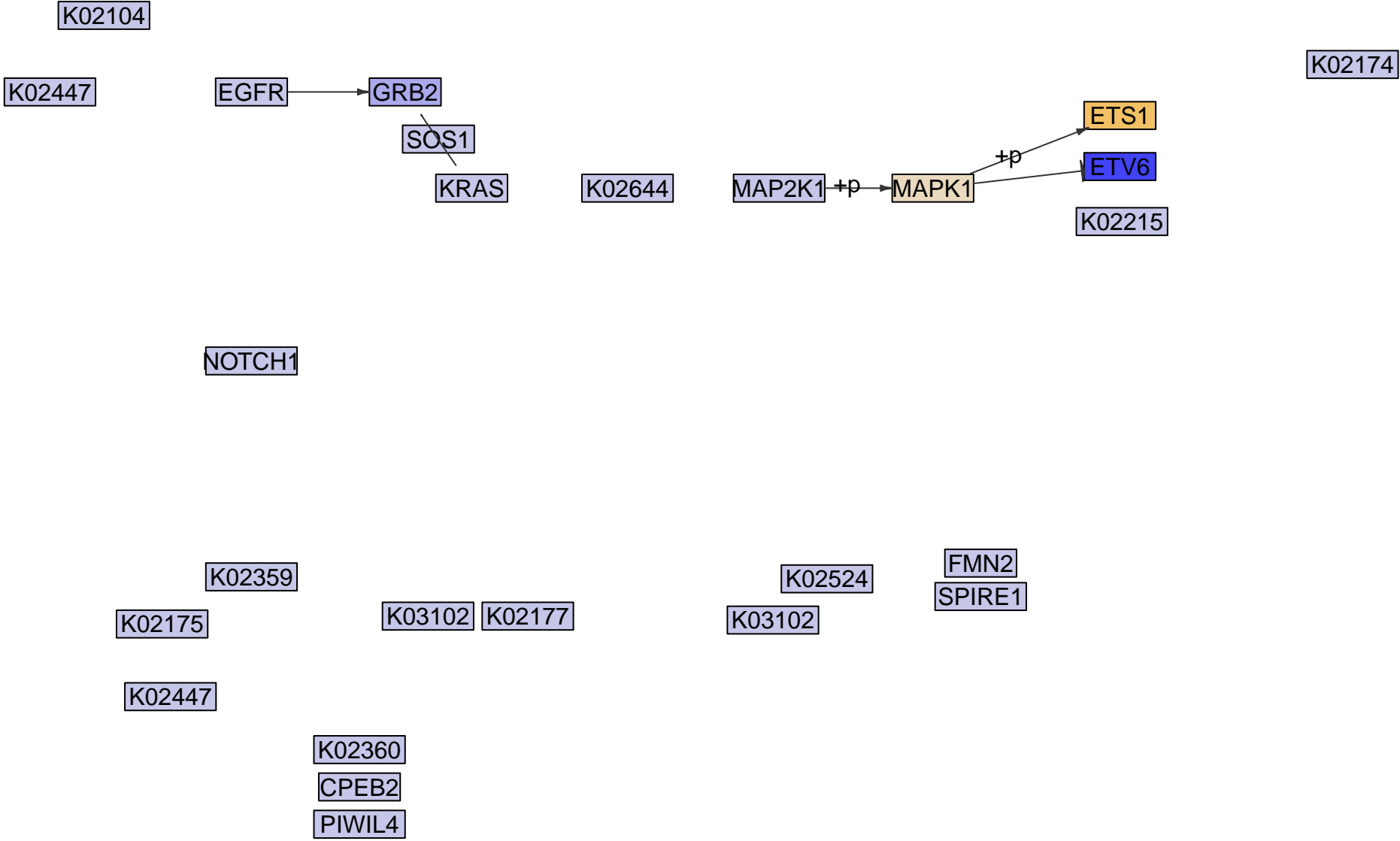
SPIRE1

K02447

K02360

CPEB2

PIWIL4



Dorso-ventral axis  
formation  
MPI-086

K02104

K02447

EGFR



GRB2

SOS1

KRAS

K02644

MAP2K1



MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

PIWIL4



Dorso-ventral axis  
formation  
MPI-087

K02104

K02447

EGFR

GRB2

SOS1

KRAS

K02644

MAP2K1

+p

MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

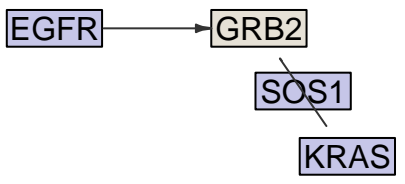
CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-089

K02104

K02447



K02644

MAP2K1

+p

MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

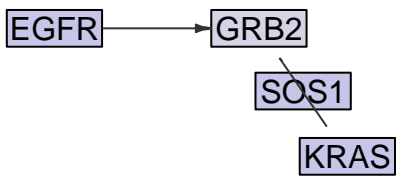
CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-090

K02104

K02447



K02644

MAP2K1

+p

MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

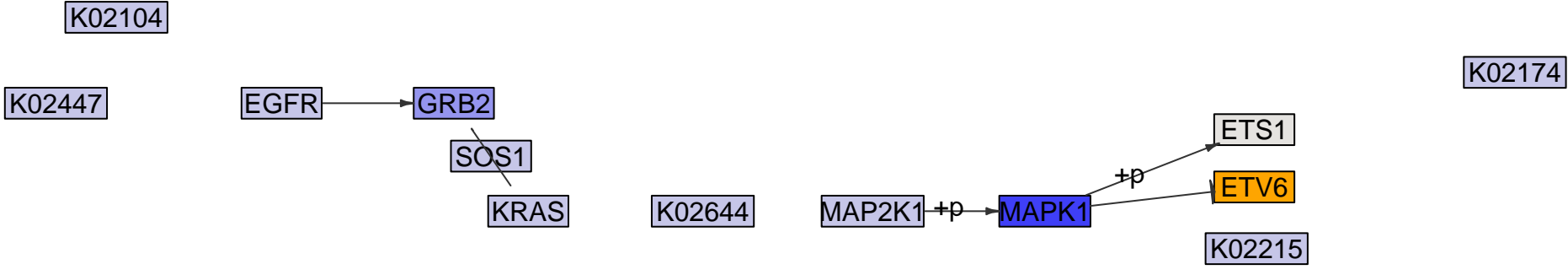
K02447

K02360

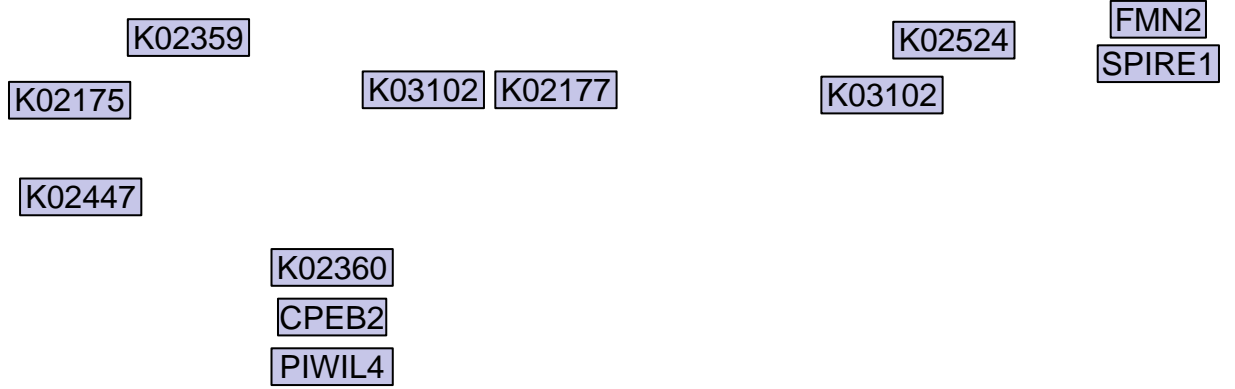
CPEB2

PIWIL4

Dorso-ventral axis formation  
MPI-091



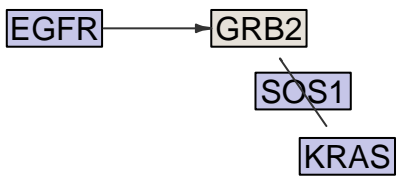
NOTCH1



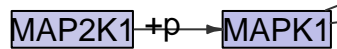
Dorso-ventral axis  
formation  
MPI-095

K02104

K02447



K02644



K02215

K02174

NOTCH1

K02359

K02175

K03102 K02177

K02524

K03102

FMN2  
SPIRE1

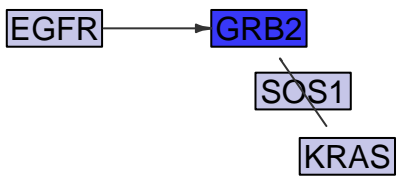
K02447

K02360  
CPEB2  
PIWIL4

Dorso-ventral axis  
formation  
MPI-101

K02104

K02447



K02644

MAP2K1

+p

MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

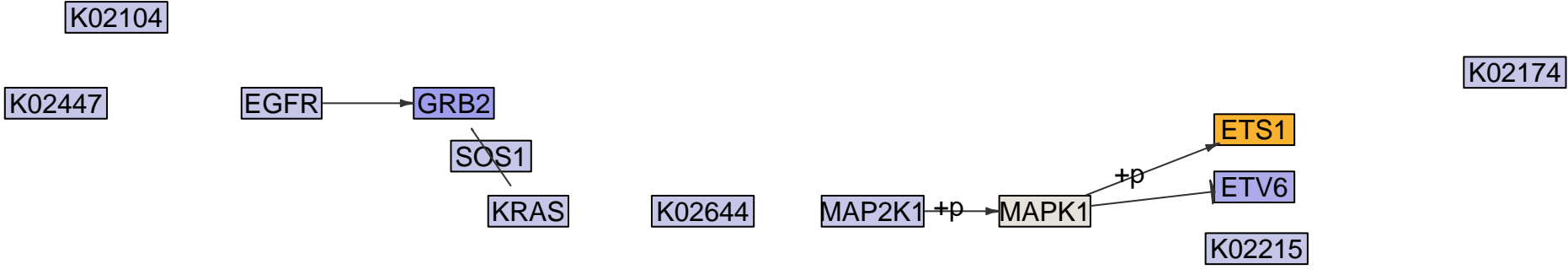
K02447

K02360

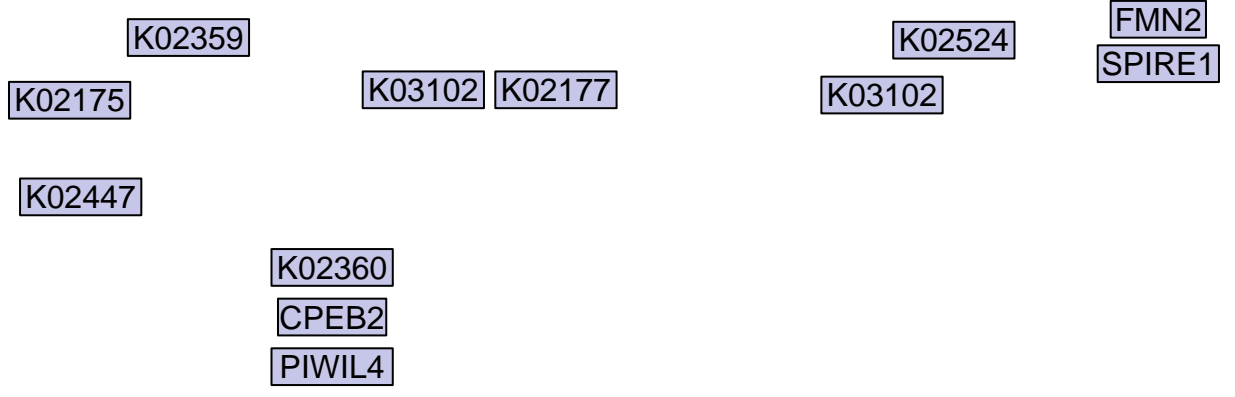
CPEB2

PIWIL4

Dorso-ventral axis formation  
MPI-114



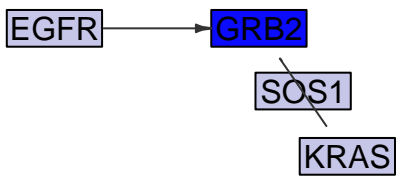
NOTCH1



Dorso-ventral axis  
formation  
MPI-123

K02104

K02447



K02644

MAP2K1

+p

MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

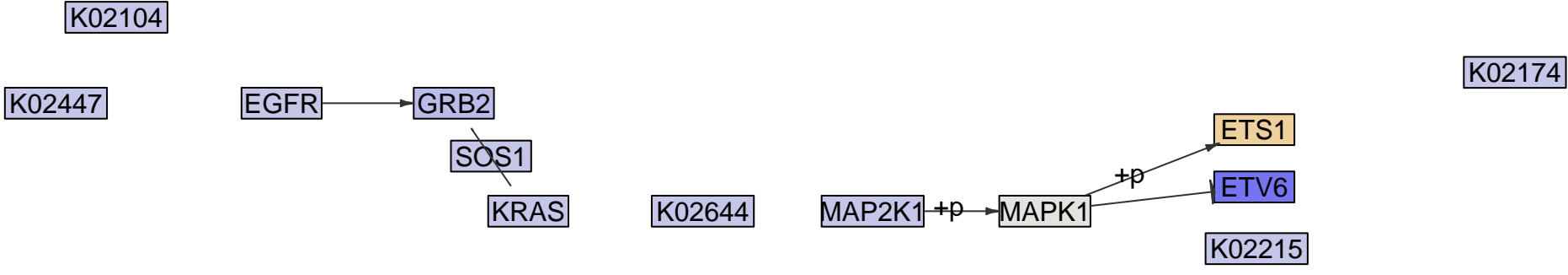
K02360

CPEB2

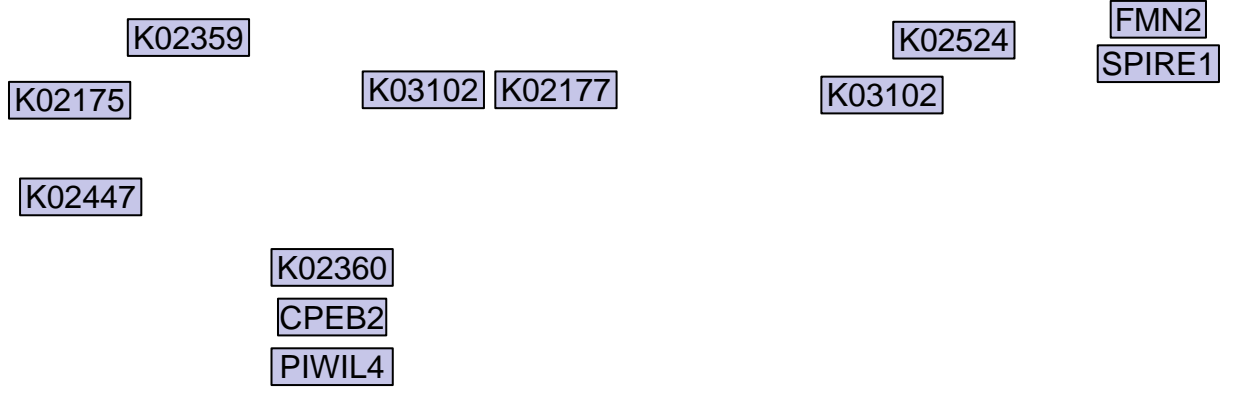
PIWIL4



Dorso-ventral axis formation  
MPI-138



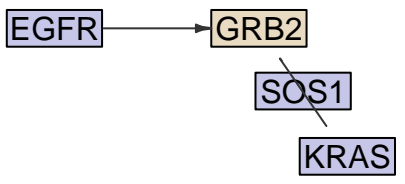
NOTCH1



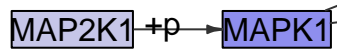
Dorso-ventral axis  
formation  
MPI-139

K02104

K02447



K02644



K02215

K02174

NOTCH1

K02359

K02175

K03102 K02177

K02524

K03102

FMN2  
SPIRE1

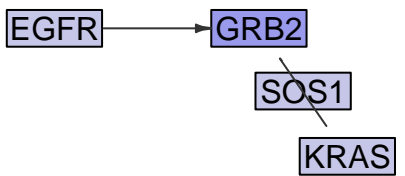
K02447

K02360  
CPEB2  
PIWIL4

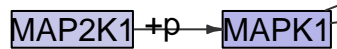
Dorso-ventral axis  
formation  
MPI-140

K02104

K02447



K02644



+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

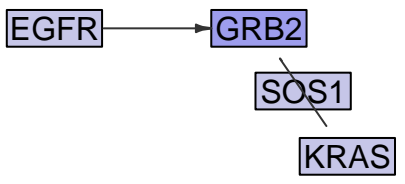
CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-144

K02104

K02447



K02644

MAP2K1

+p

MAPK1

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-147

K02104

K02447

EGFR

GRB2

SOS1

KRAS

K02644

MAP2K1

MAPK1

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

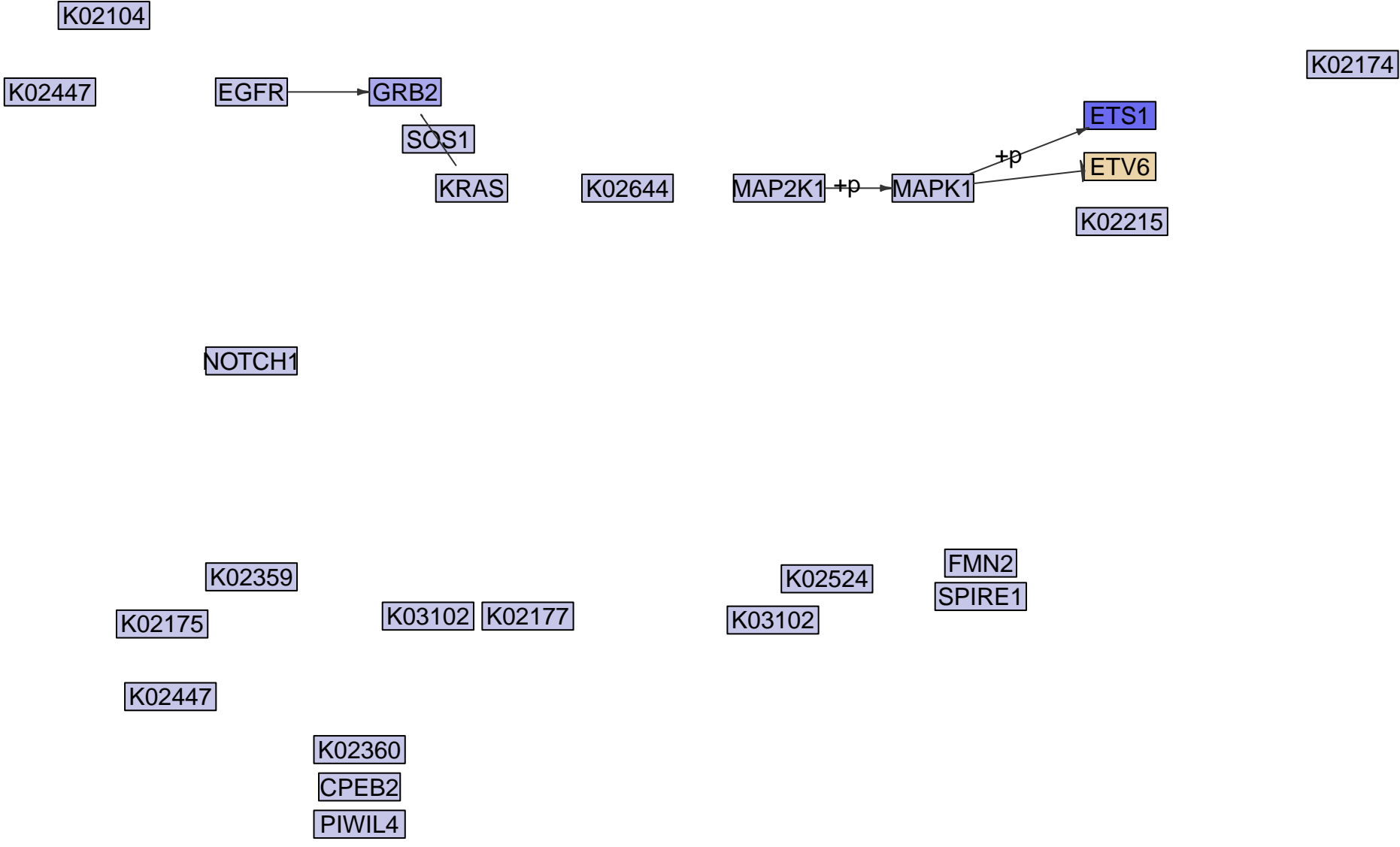
SPIRE1

K02447

K02360

CPEB2

PIWIL4



Dorso-ventral axis  
formation  
MPI-171

K02104

K02447

EGFR



GRB2

~~SOS1~~

KRAS

K02644

MAP2K1



MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-172

K02104

K02447

EGFR



GRB2

SOS1

KRAS

K02644

MAP2K1



MAPK1



ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-007

K02104

K02447

EGFR



GRB2

SOS1

KRAS

K02644

MAP2K1



MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

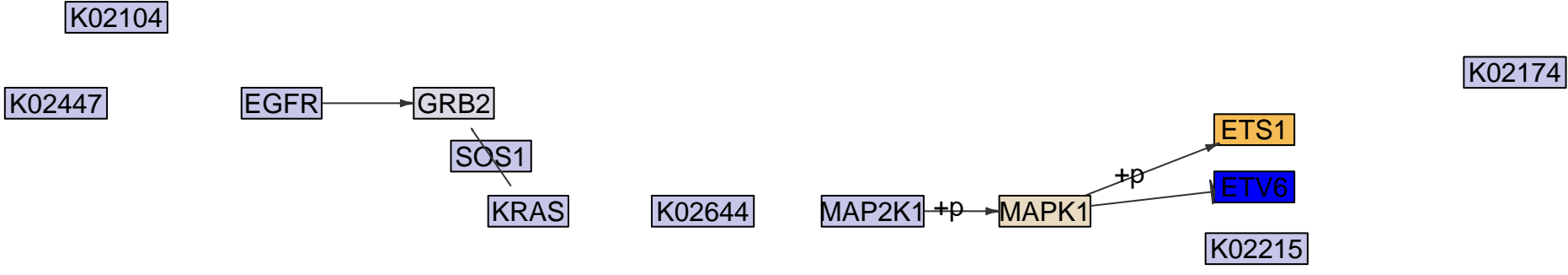
K02360

CPEB2

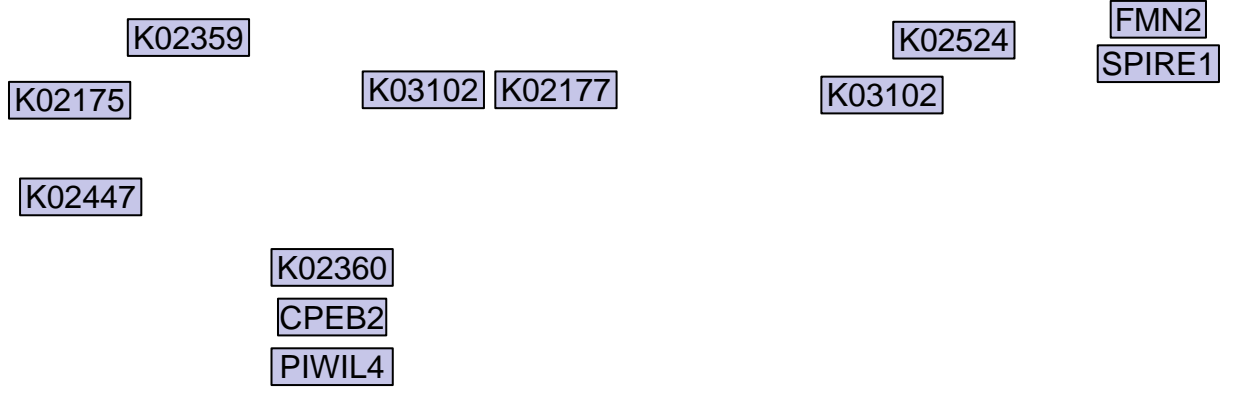
PIWIL4



Dorso-ventral axis formation  
MPI-011



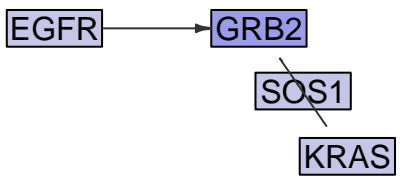
NOTCH1



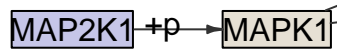
Dorso-ventral axis  
formation  
MPI-024

K02104

K02447



K02644



K02215

K02174

NOTCH1

K02359

K02175

K03102 K02177

K02524

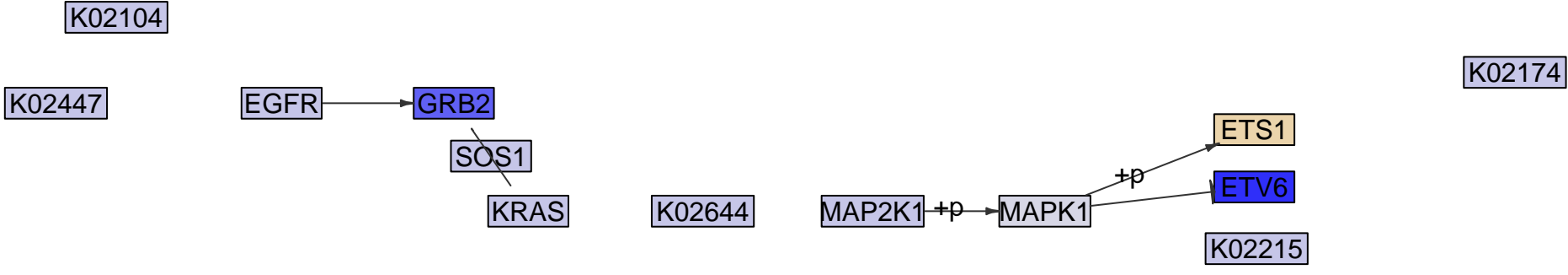
K03102

FMN2  
SPIRE1

K02447

K02360  
CPEB2  
PIWIL4

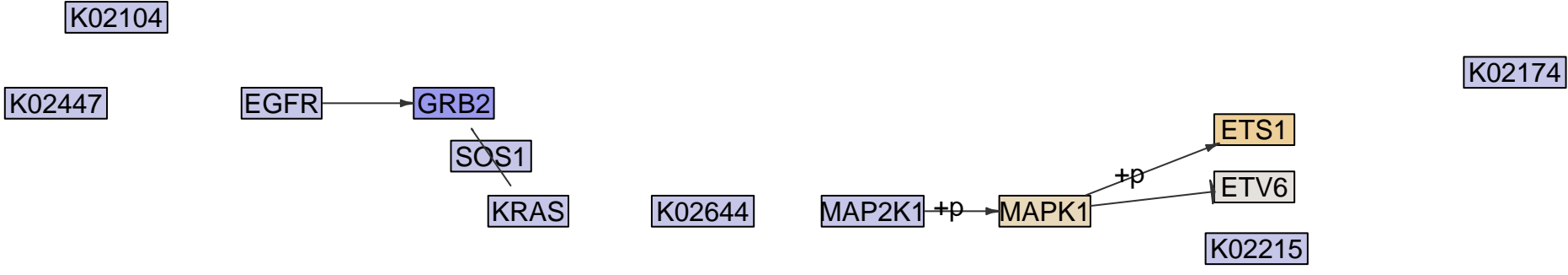
Dorso-ventral axis formation  
MPI-026



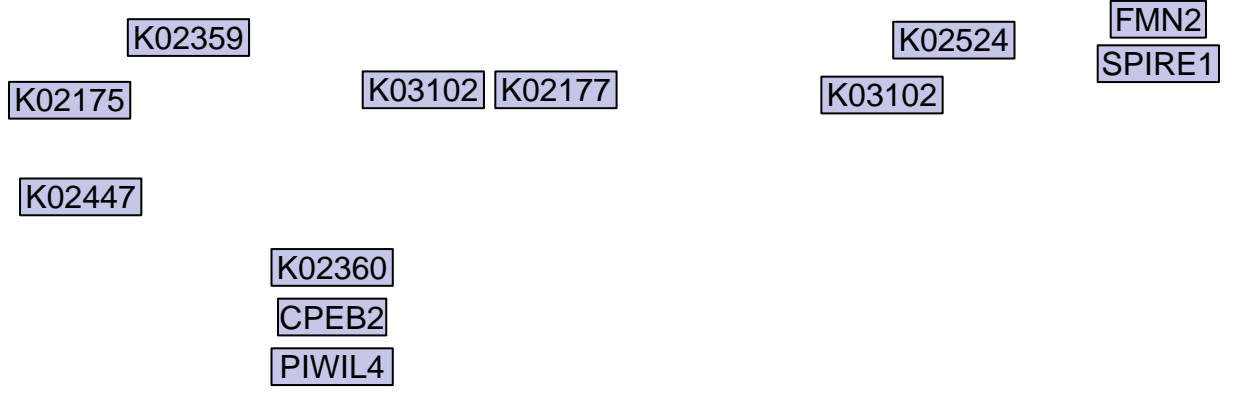
NOTCH1

- K02359
- K02175
- K02447
- K03102
- K02177
- K02360
- CPEB2
- PIWIL4
- K02524
- K03102
- FMN2
- SPIRE1

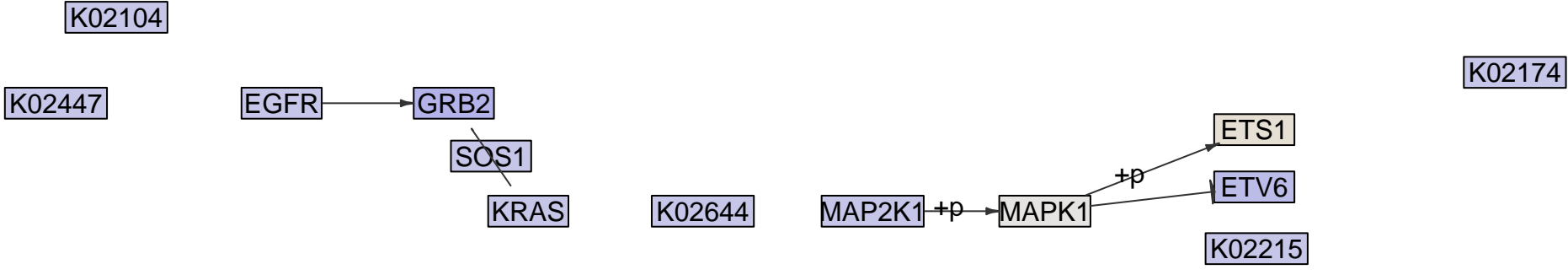
Dorso-ventral axis formation  
MPI-036



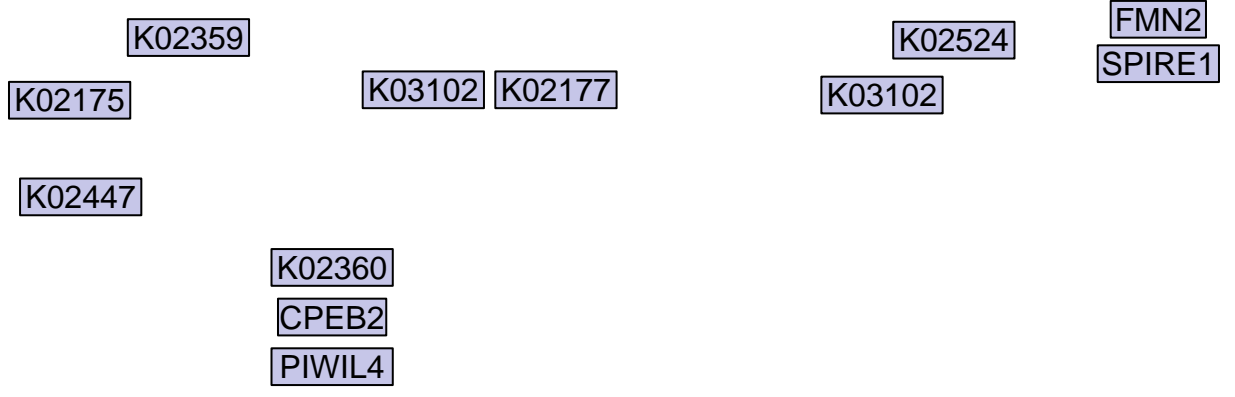
NOTCH1



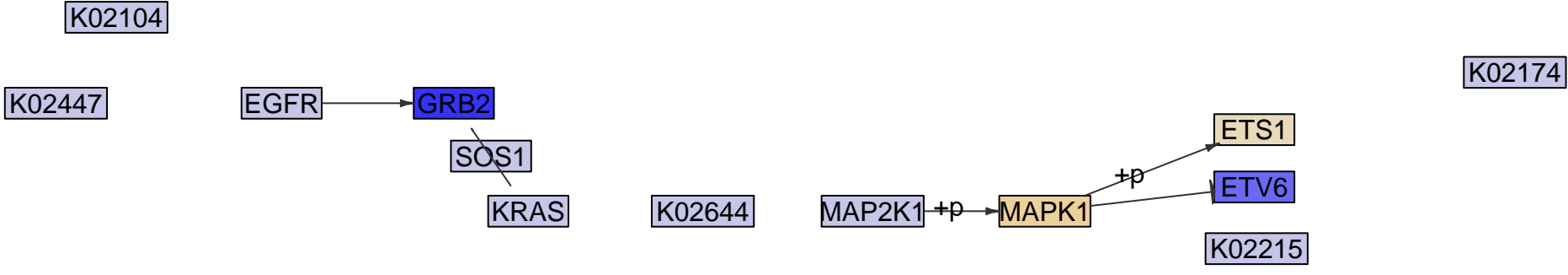
Dorso-ventral axis formation  
MPI-037



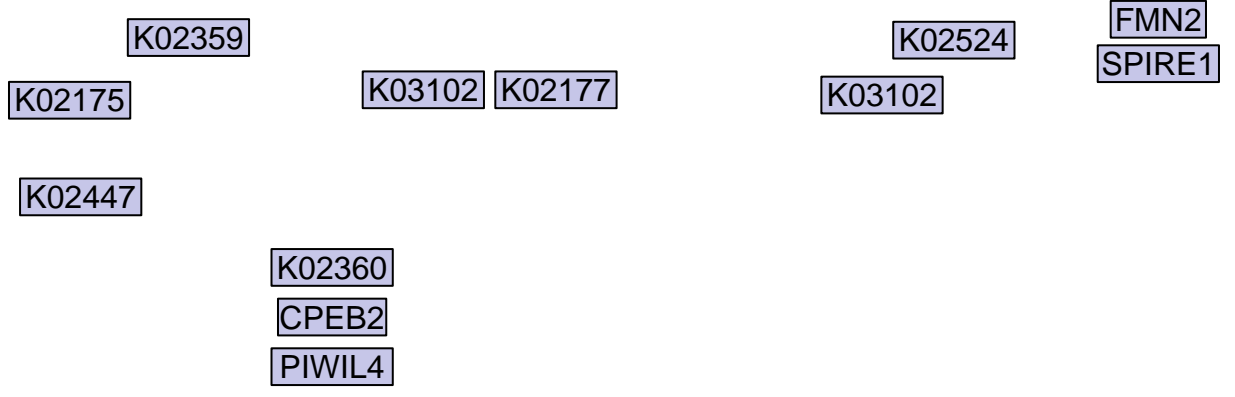
NOTCH1



Dorso-ventral axis formation  
MPI-038



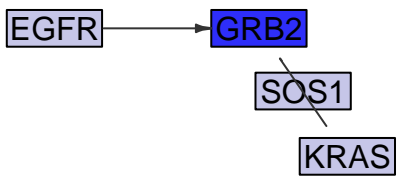
NOTCH1



Dorso-ventral axis  
formation  
MPI-041

K02104

K02447



K02644

MAP2K1

+p

MAPK1

+p

K02215

K02174

ETS1

ETV6

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-046

K02104

K02447

EGFR



GRB2

SOS1

KRAS

K02644

MAP2K1



MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

PIWIL4



Dorso-ventral axis  
formation  
MPI-050

K02104

K02447

EGFR

GRB2

SOS1

KRAS

K02644

MAP2K1

MAPK1

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

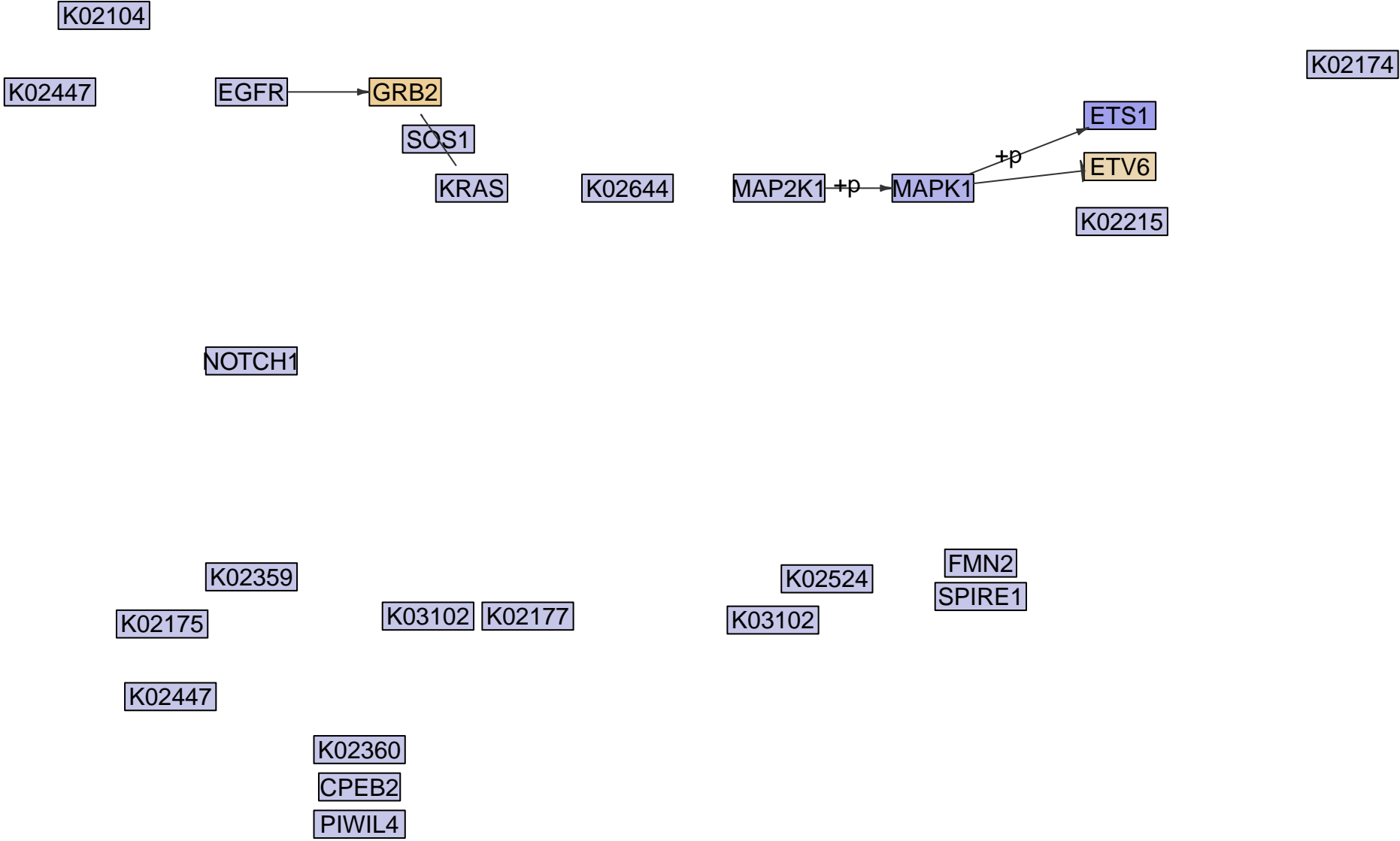
SPIRE1

K02447

K02360

CPEB2

PIWIL4



Dorso-ventral axis  
formation  
MPI-051

K02104

K02447

EGFR

GRB2

SOS1

KRAS

K02644

MAP2K1

MAPK1

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

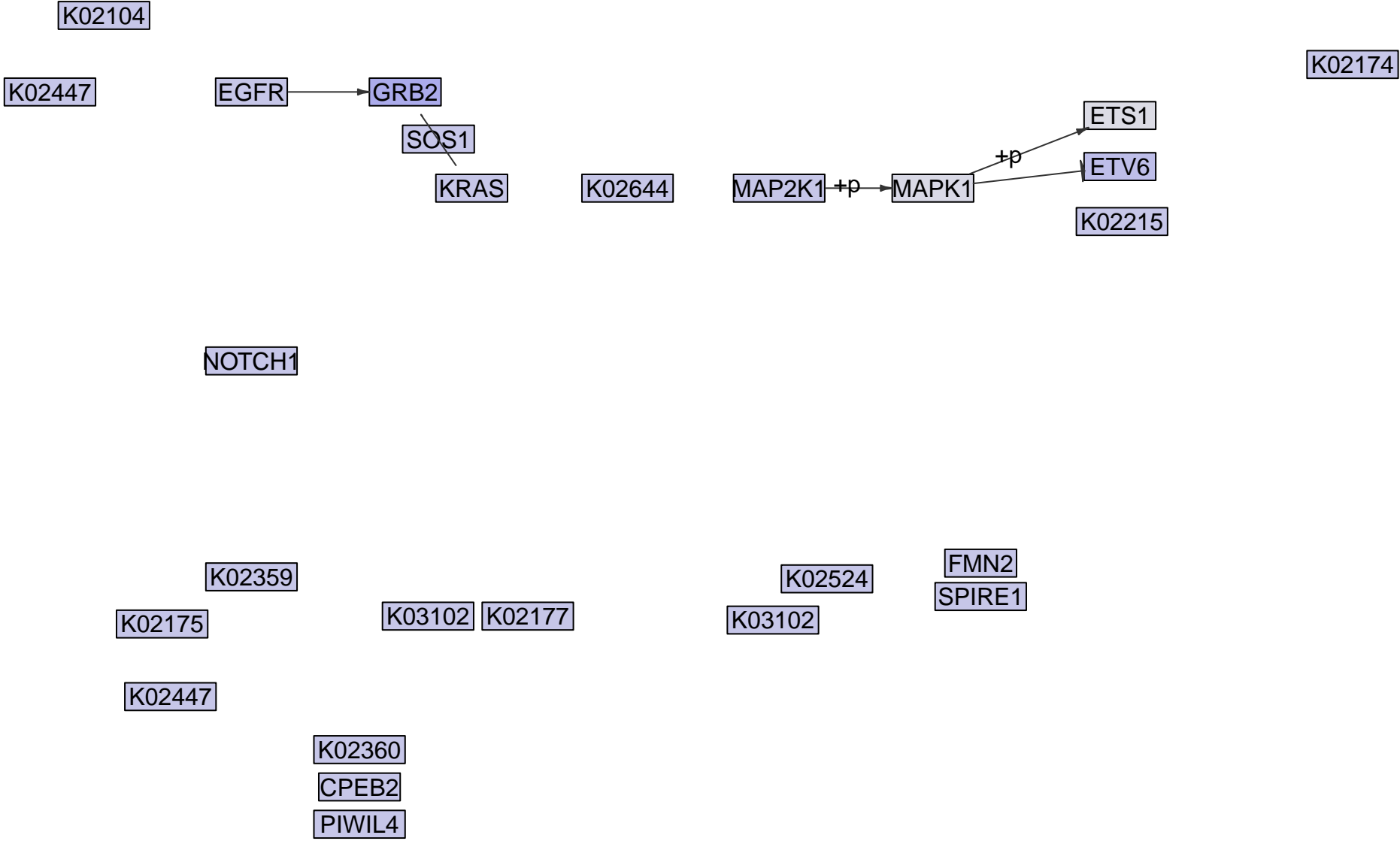
SPIRE1

K02447

K02360

CPEB2

PIWIL4



Dorso-ventral axis  
formation  
MPI-054

K02104

K02447

EGFR

GRB2

SOS1

KRAS

K02644

MAP2K1

+p

MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-059

K02104

K02447

EGFR



GRB2

SOS1

KRAS

K02644

MAP2K1



MAPK1



ETS1

ETV6

K02215

K02174

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K02175

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K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

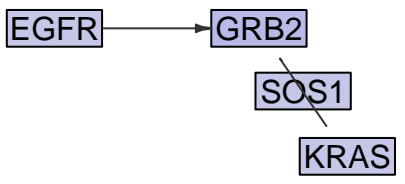
CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-060

K02104

K02447



K02644

MAP2K1 +p

MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-061

K02104

K02447

EGFR

GRB2

SOS1

KRAS

K02644

MAP2K1

MAPK1

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

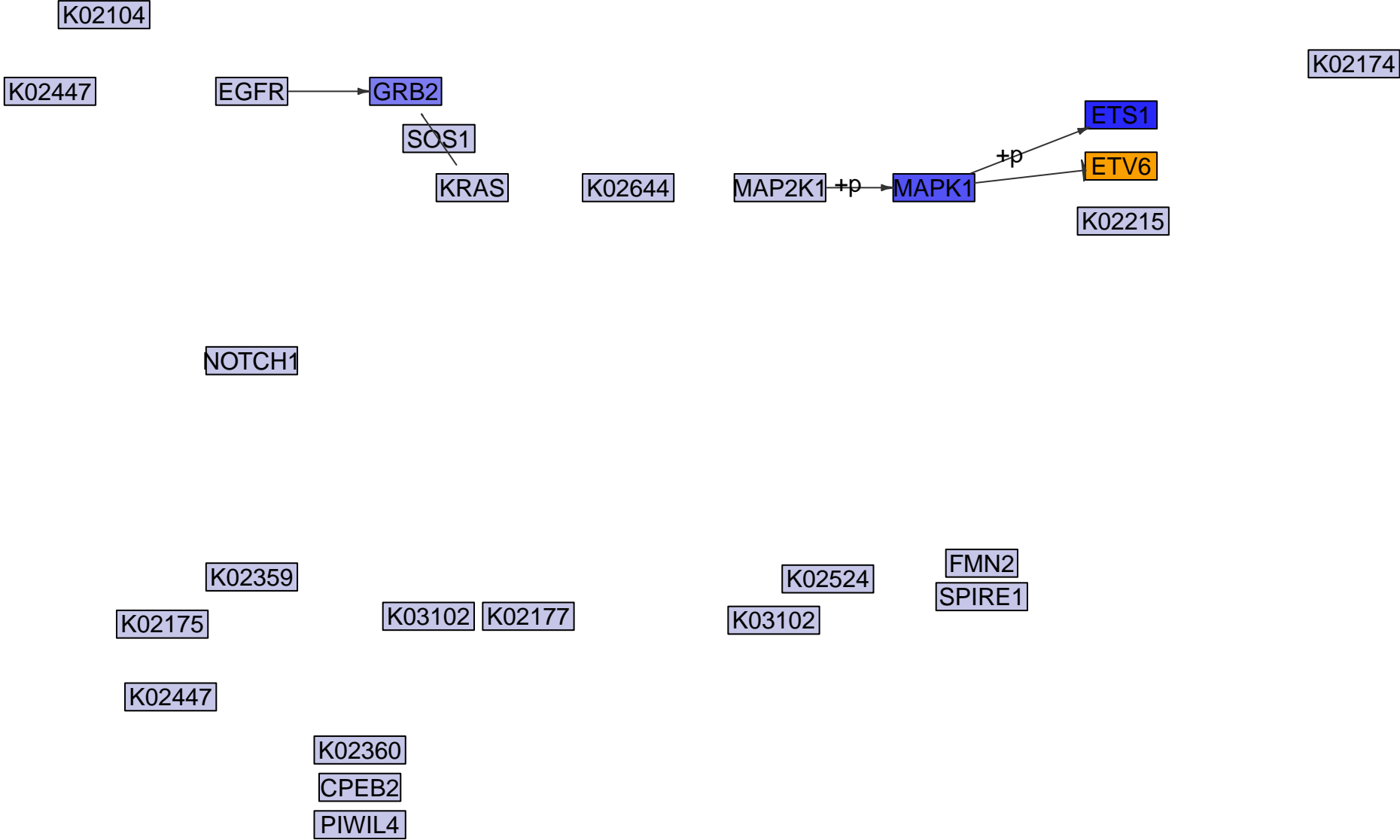
SPIRE1

K02447

K02360

CPEB2

PIWIL4



Dorso-ventral axis  
formation  
MPI-064

K02104

K02447

EGFR



GRB2

SOS1

KRAS

K02644

MAP2K1



MAPK1



ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

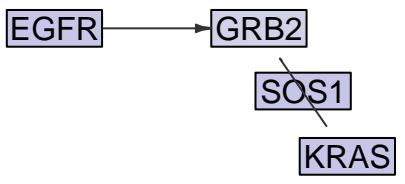
CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-070

K02104

K02447



K02644

MAP2K1 +p

MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

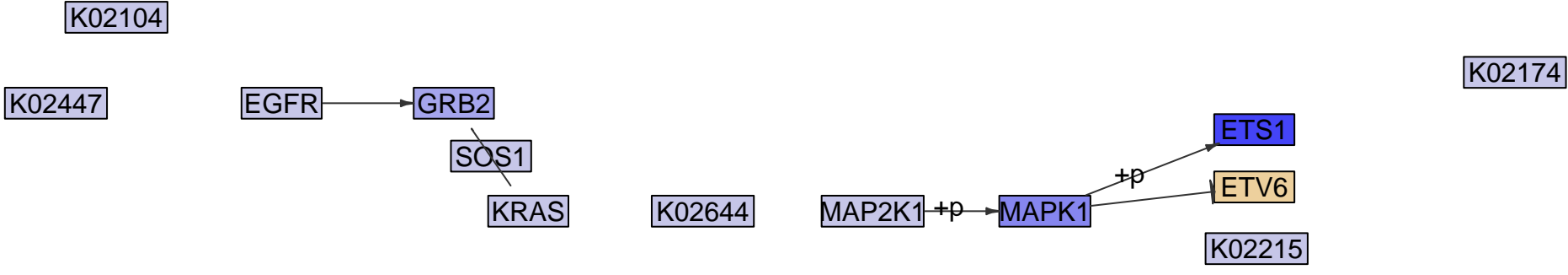
K02360

CPEB2

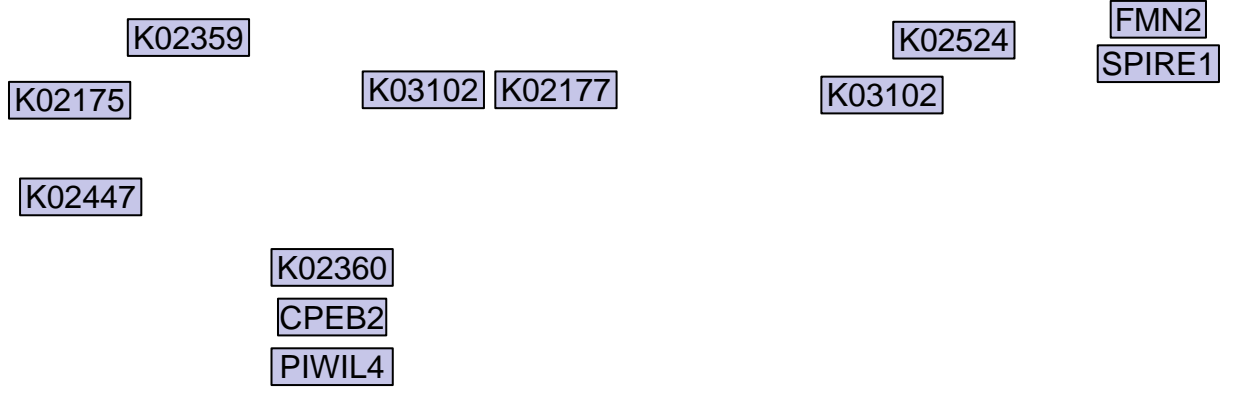
PIWIL4



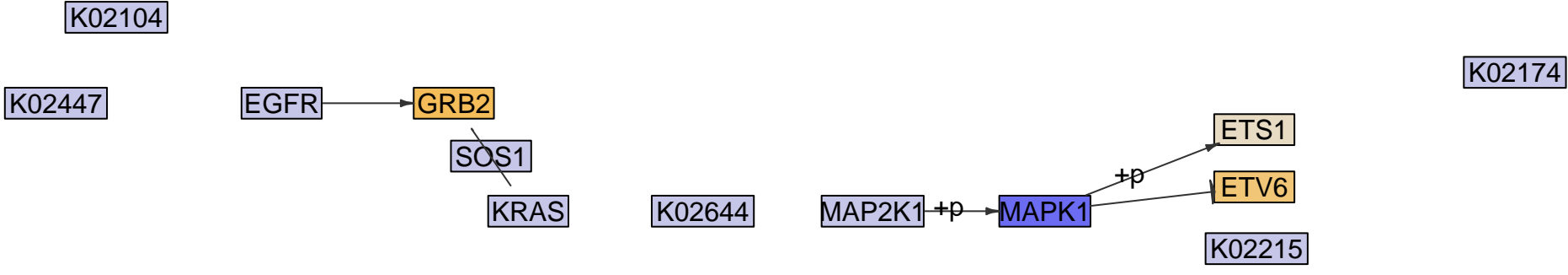
Dorso-ventral axis  
formation  
MPI-072



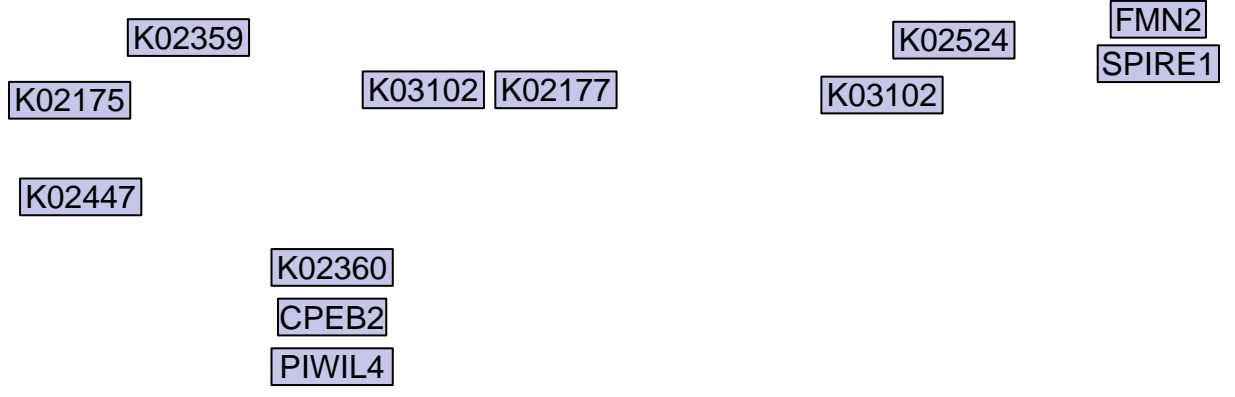
NOTCH1



Dorso-ventral axis formation  
MPI-093



NOTCH1



Dorso-ventral axis  
formation  
MPI-094

K02104

K02447

EGFR



GRB2

SOS1

KRAS

K02644

MAP2K1



MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

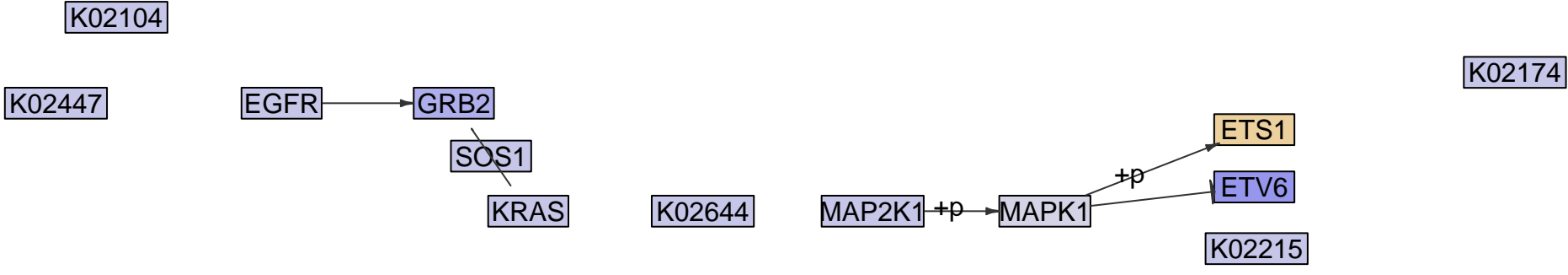
K02447

K02360

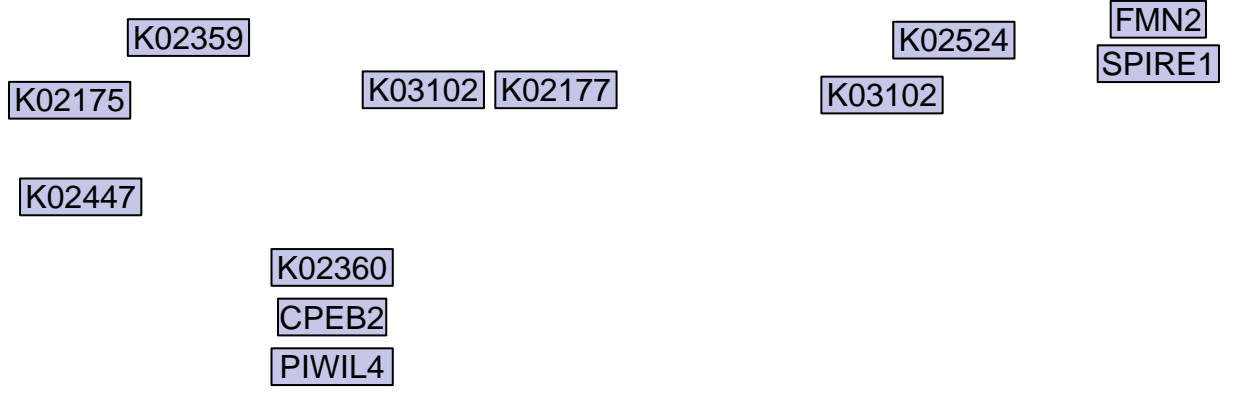
CPEB2

PIWIL4

Dorso-ventral axis formation  
MPI-099



NOTCH1



Dorso-ventral axis  
formation  
MPI-104

K02104

K02447

EGFR

GRB2

SOS1

KRAS

K02644

MAP2K1

+p

MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-107

K02104

K02447

EGFR

GRB2

SOS1

KRAS

K02644

MAP2K1

MAPK1

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

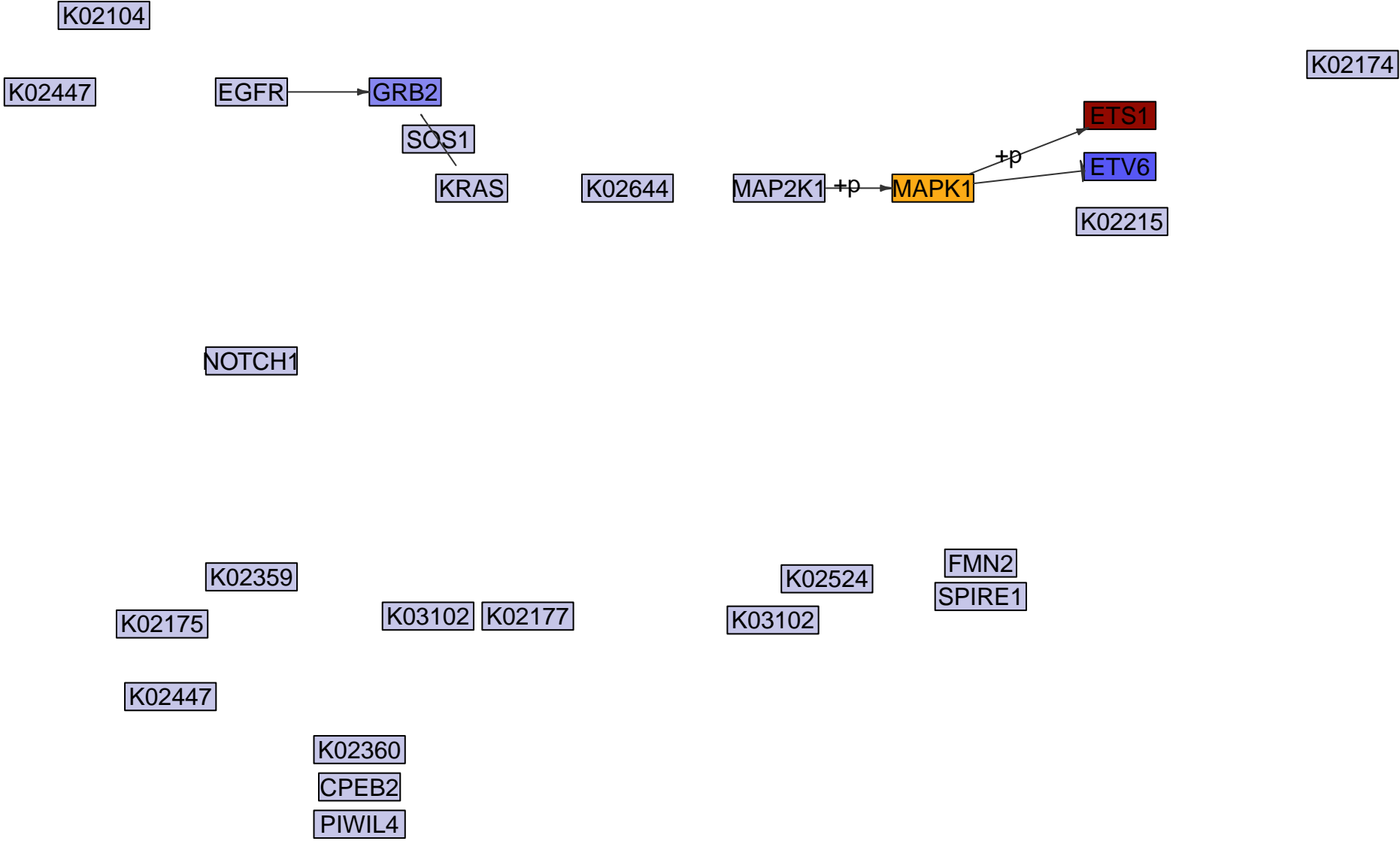
SPIRE1

K02447

K02360

CPEB2

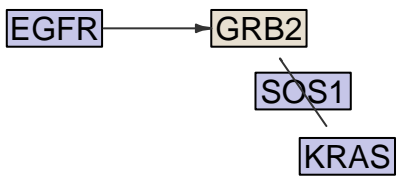
PIWIL4



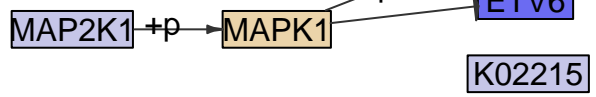
Dorso-ventral axis  
formation  
MPI-112

K02104

K02447



K02644



K02174

NOTCH1

K02359

K02175

K03102 K02177

K02524

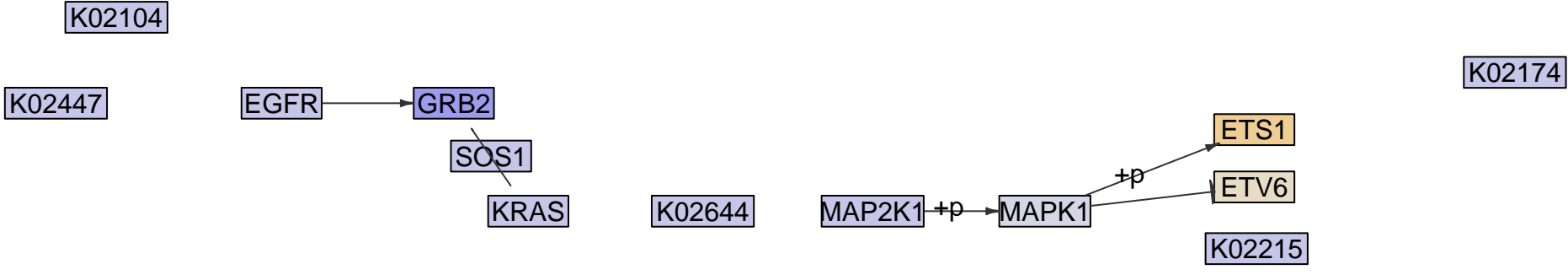
K03102

FMN2  
SPIRE1

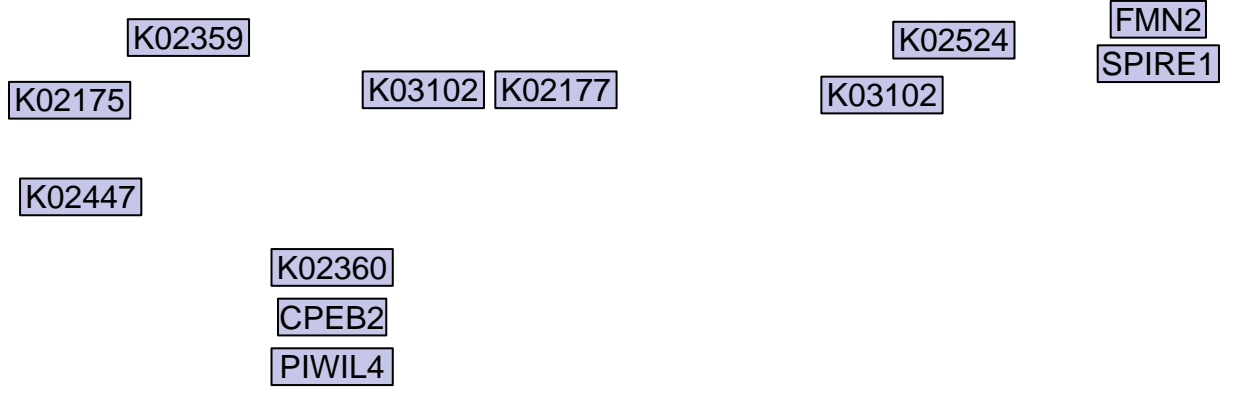
K02447

K02360  
CPEB2  
PIWIL4

Dorso-ventral axis formation  
MPI-116

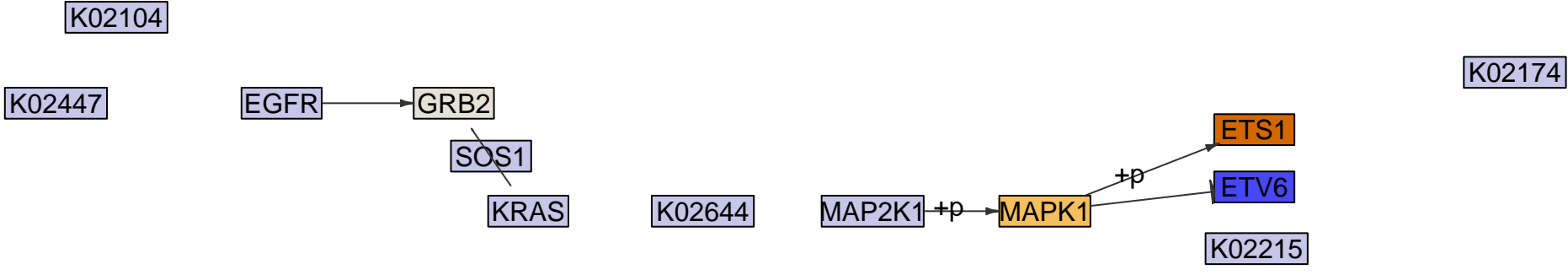


NOTCH1

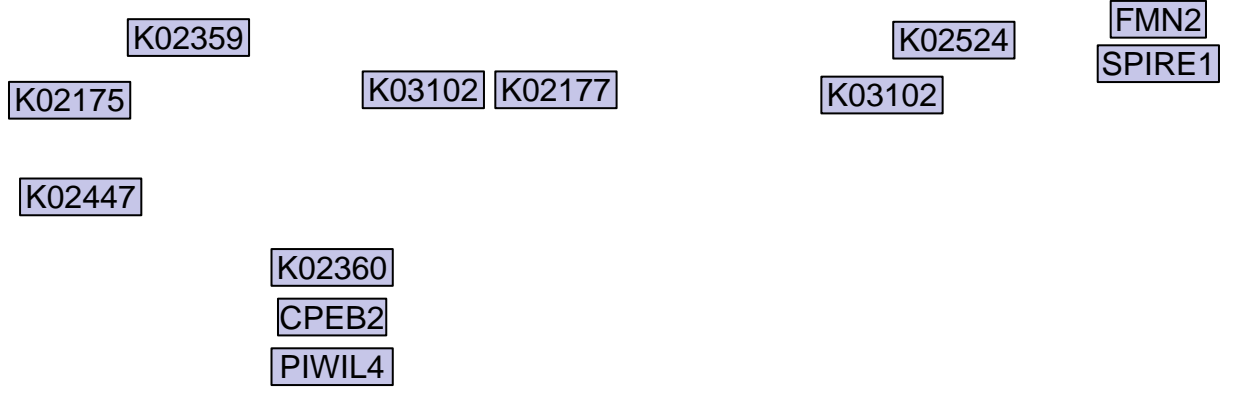




Dorso-ventral axis formation  
MPI-117



NOTCH1



Dorso-ventral axis  
formation  
MPI-120

K02104

K02447

EGFR



GRB2

SOS1

KRAS

K02644

MAP2K1



MAPK1



ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

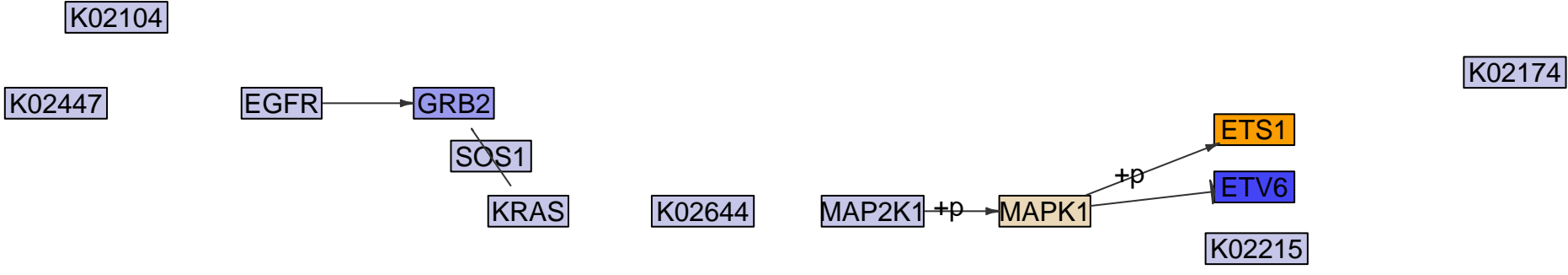
K02447

K02360

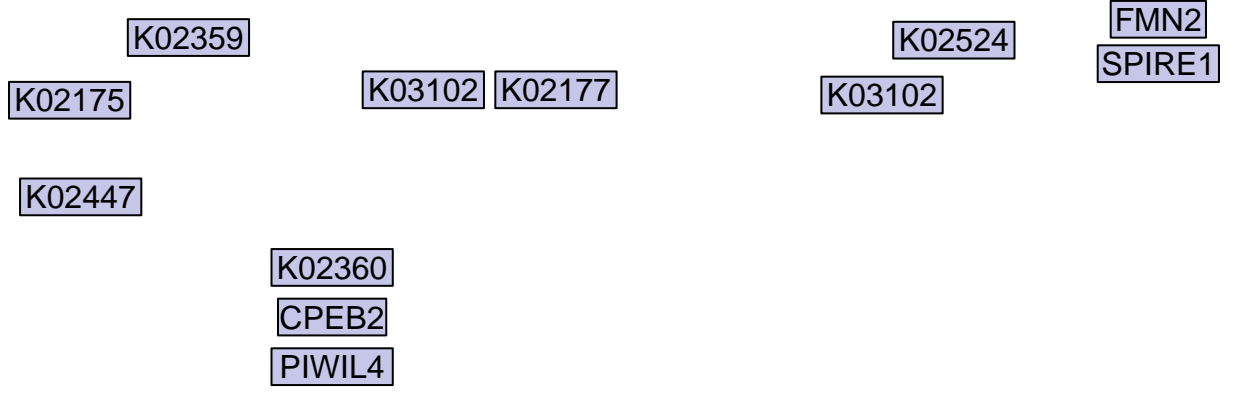
CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-121



NOTCH1



Dorso-ventral axis  
formation  
MPI-124

K02104

K02447

EGFR



GRB2

SOS1

KRAS

K02644

MAP2K1



MAPK1



ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-126

K02104

K02447

EGFR

GRB2

SOS1

KRAS

K02644

MAP2K1

+p

MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

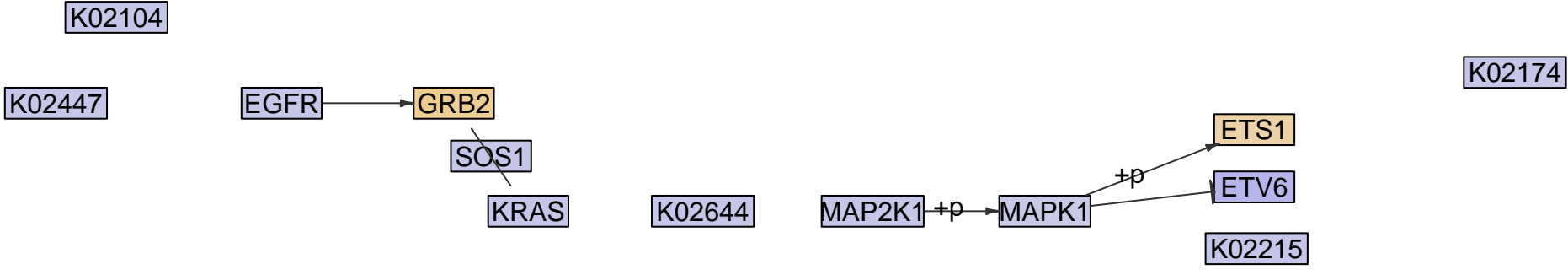
K02447

K02360

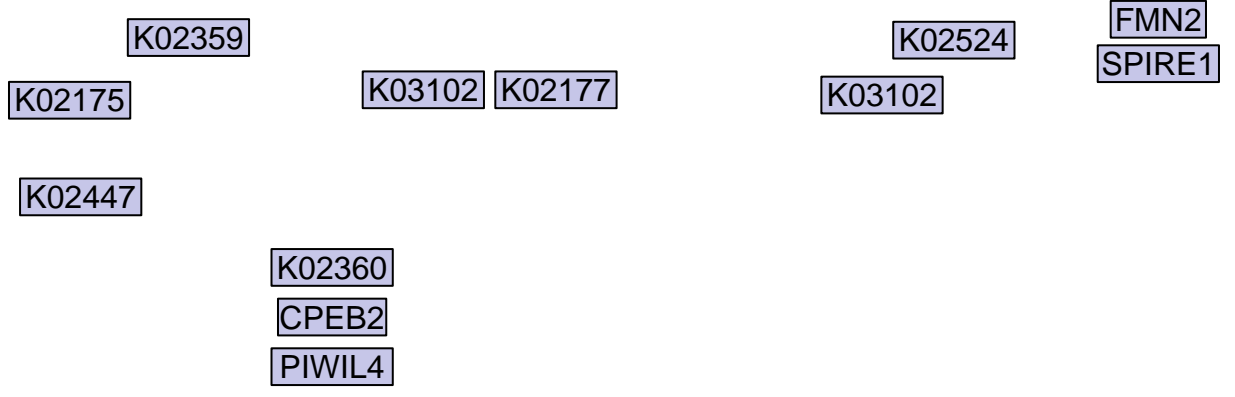
CPEB2

PIWIL4

Dorso-ventral axis formation  
MPI-131



NOTCH1



Dorso-ventral axis  
formation  
MPI-143

K02104

K02447

EGFR



GRB2

SOS1

KRAS

K02644

MAP2K1



MAPK1



ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-148

K02104

K02447

EGFR



GRB2

SOS1

KRAS

K02644

MAP2K1



MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

PIWIL4



Dorso-ventral axis  
formation  
MPI-161

K02104

K02447

EGFR

GRB2

SOS1

KRAS

K02644

MAP2K1

+p

MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-162

K02104

K02447

EGFR

GRB2

SOS1

KRAS

K02644

MAP2K1

+p

MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

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K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

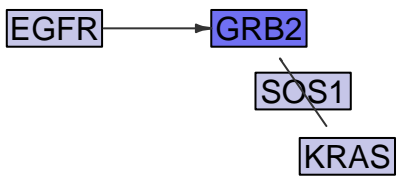
CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-165

K02104

K02447



K02644

MAP2K1

+p

MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

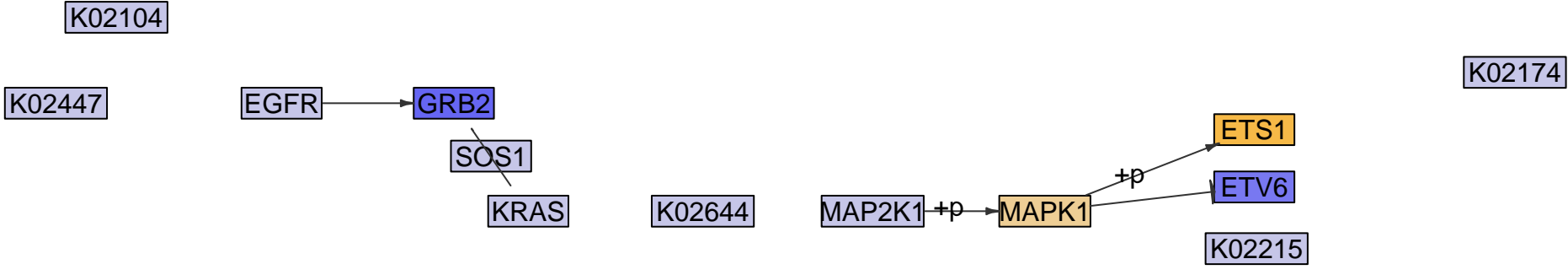
K02447

K02360

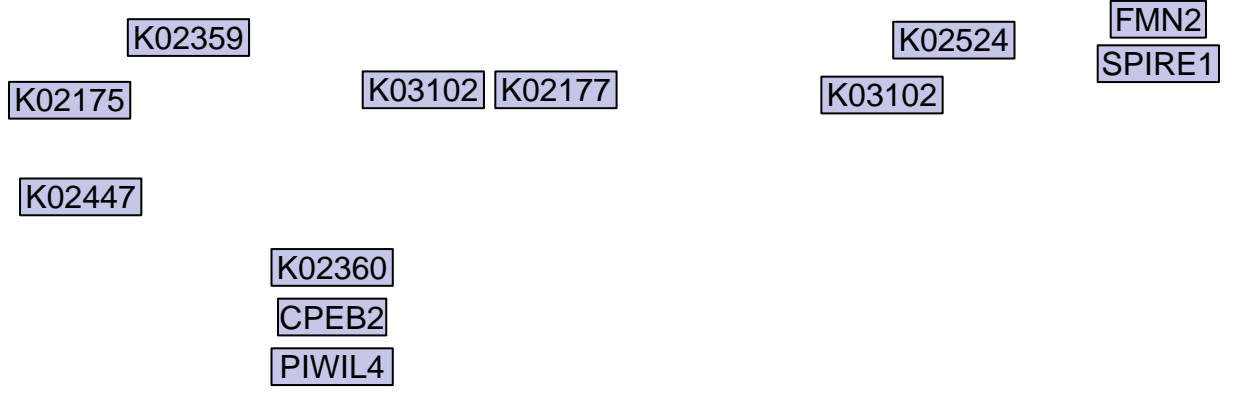
CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-169



NOTCH1



Dorso-ventral axis  
formation  
MPI-175

K02104

K02447

EGFR

GRB2

SOS1

KRAS

K02644

MAP2K1

MAPK1

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

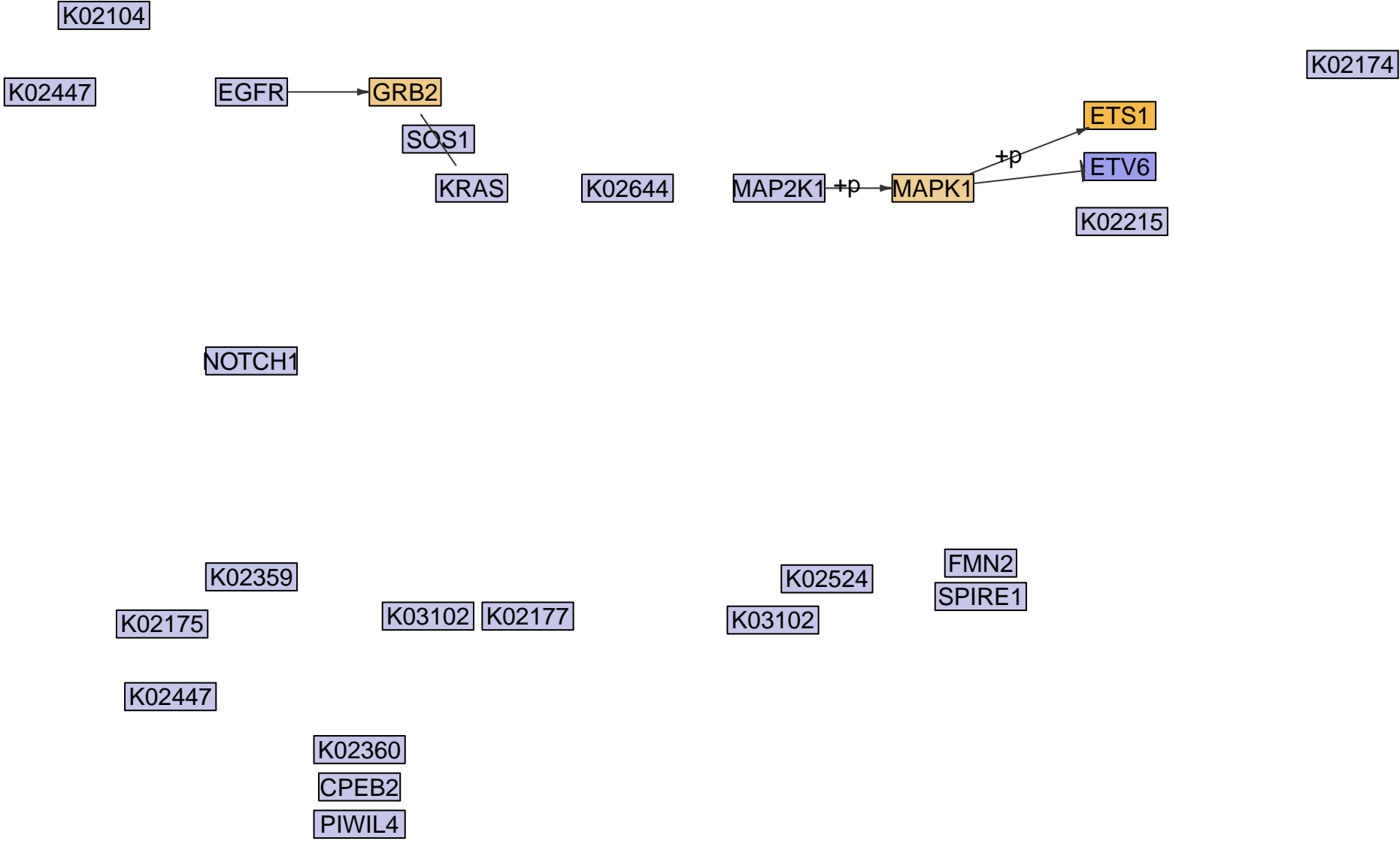
SPIRE1

K02447

K02360

CPEB2

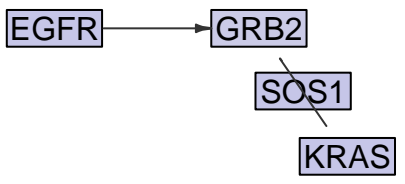
PIWIL4



Dorso-ventral axis  
formation  
MPI-187

K02104

K02447



K02644

MAP2K1

+p

MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-193

K02104

K02447

EGFR

GRB2

SOS1

KRAS

K02644

MAP2K1

MAPK1

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

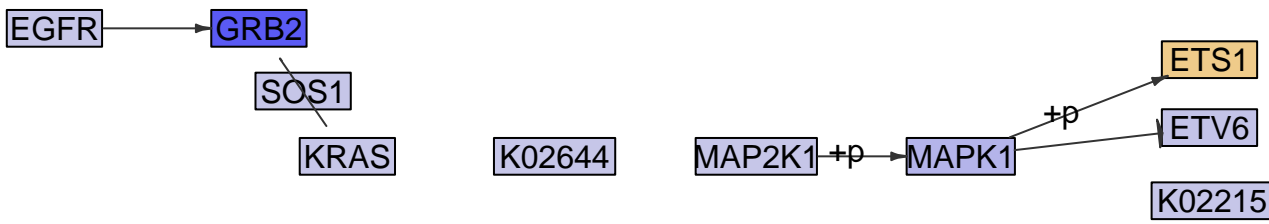
SPIRE1

K02447

K02360

CPEB2

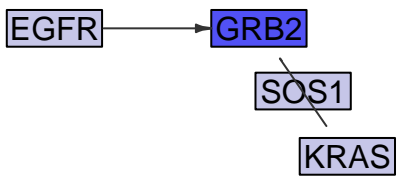
PIWIL4



Dorso-ventral axis  
formation  
MPI-216

K02104

K02447



K02644

MAP2K1

+p

MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

PIWIL4



Dorso-ventral axis  
formation  
MPI-222

K02104

K02447

EGFR

GRB2

SOS1

KRAS

K02644

MAP2K1

MAPK1

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

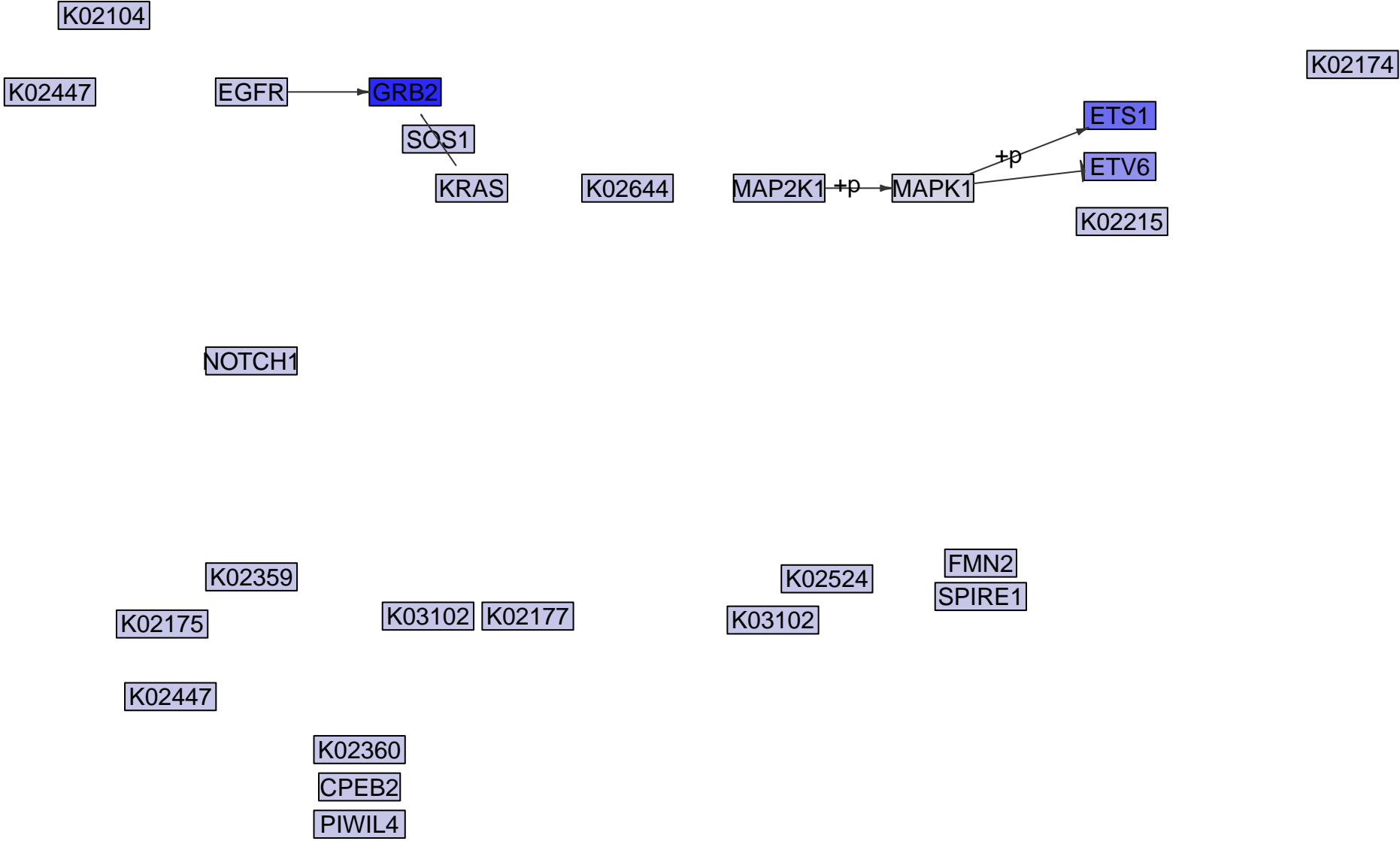
SPIRE1

K02447

K02360

CPEB2

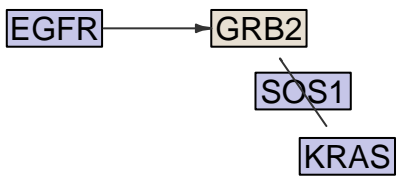
PIWIL4



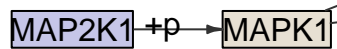
Dorso-ventral axis  
formation  
MPI-225

K02104

K02447



K02644



+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

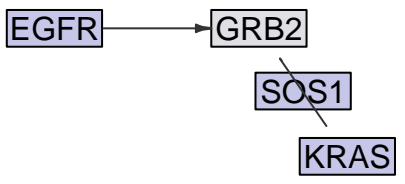
CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-242

K02104

K02447



K02644

MAP2K1

MAPK1

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2  
SPIRE1

K02447

K02360

CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-245

K02104

K02447

EGFR

GRB2

SOS1

KRAS

K02644

MAP2K1

MAPK1

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

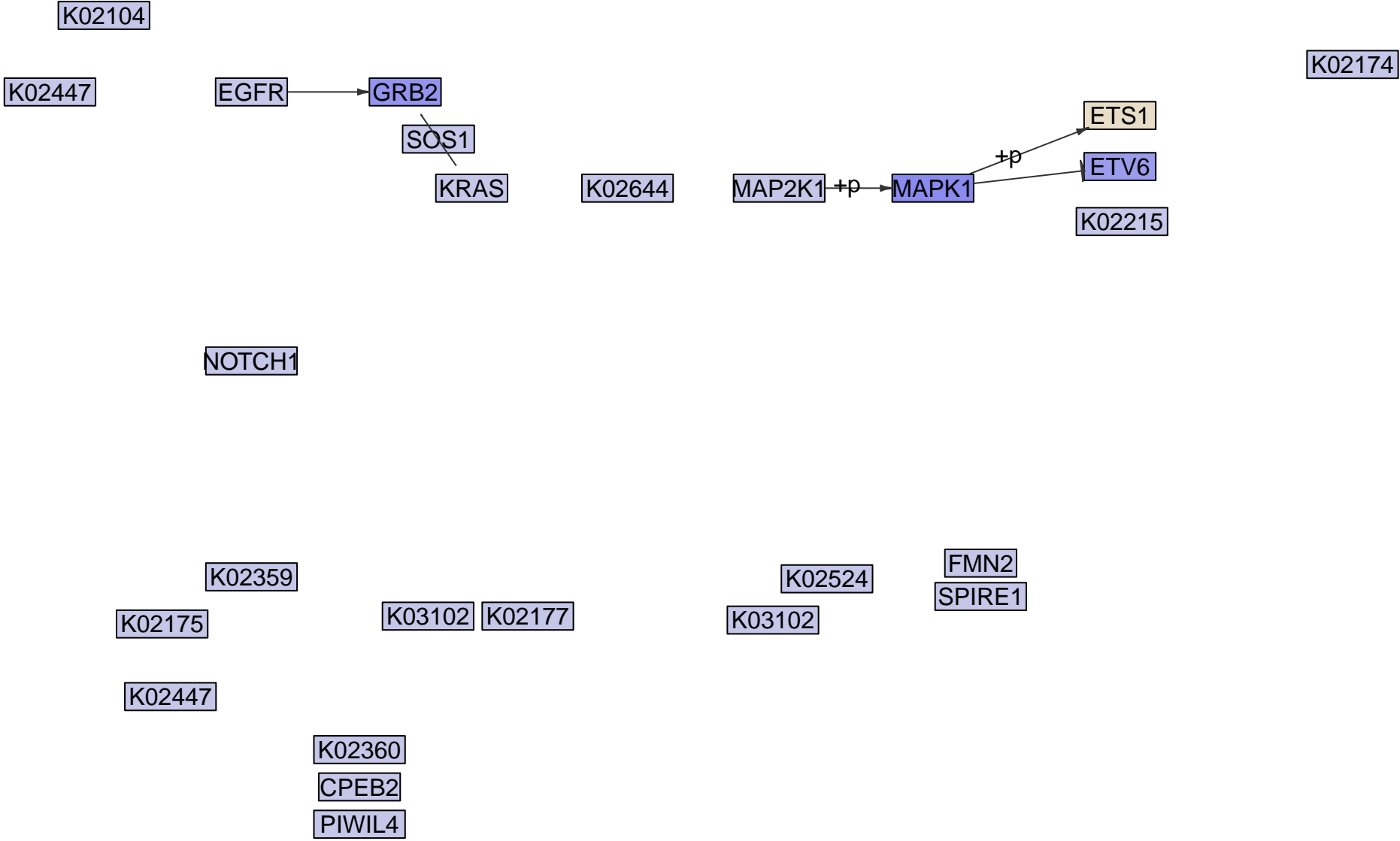
SPIRE1

K02447

K02360

CPEB2

PIWIL4



Dorso-ventral axis  
formation  
MPI-248

K02104

K02447

EGFR

GRB2

SOS1

KRAS

K02644

MAP2K1

+p

MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-249

K02104

K02447

EGFR



GRB2

SOS1

KRAS

K02644

MAP2K1



MAPK1



ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-250

K02104

K02447

EGFR

GRB2

SOS1

KRAS

K02644

MAP2K1

+p

MAPK1

+p

ETS1

ETV6

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K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

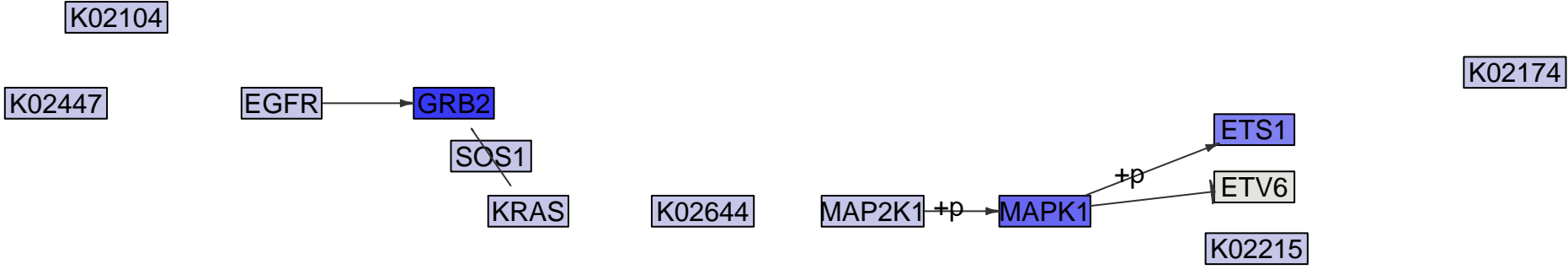
K02447

K02360

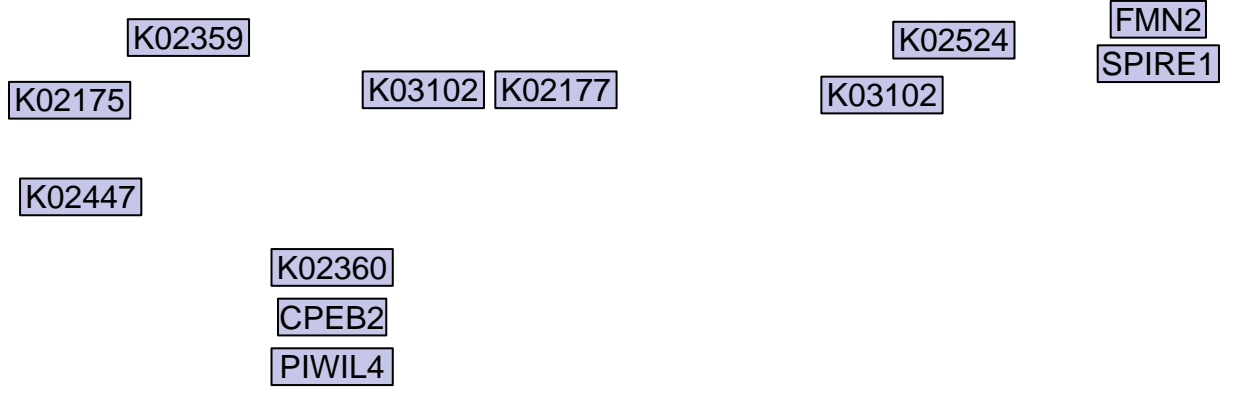
CPEB2

PIWIL4

Dorso-ventral axis formation  
MPI-008

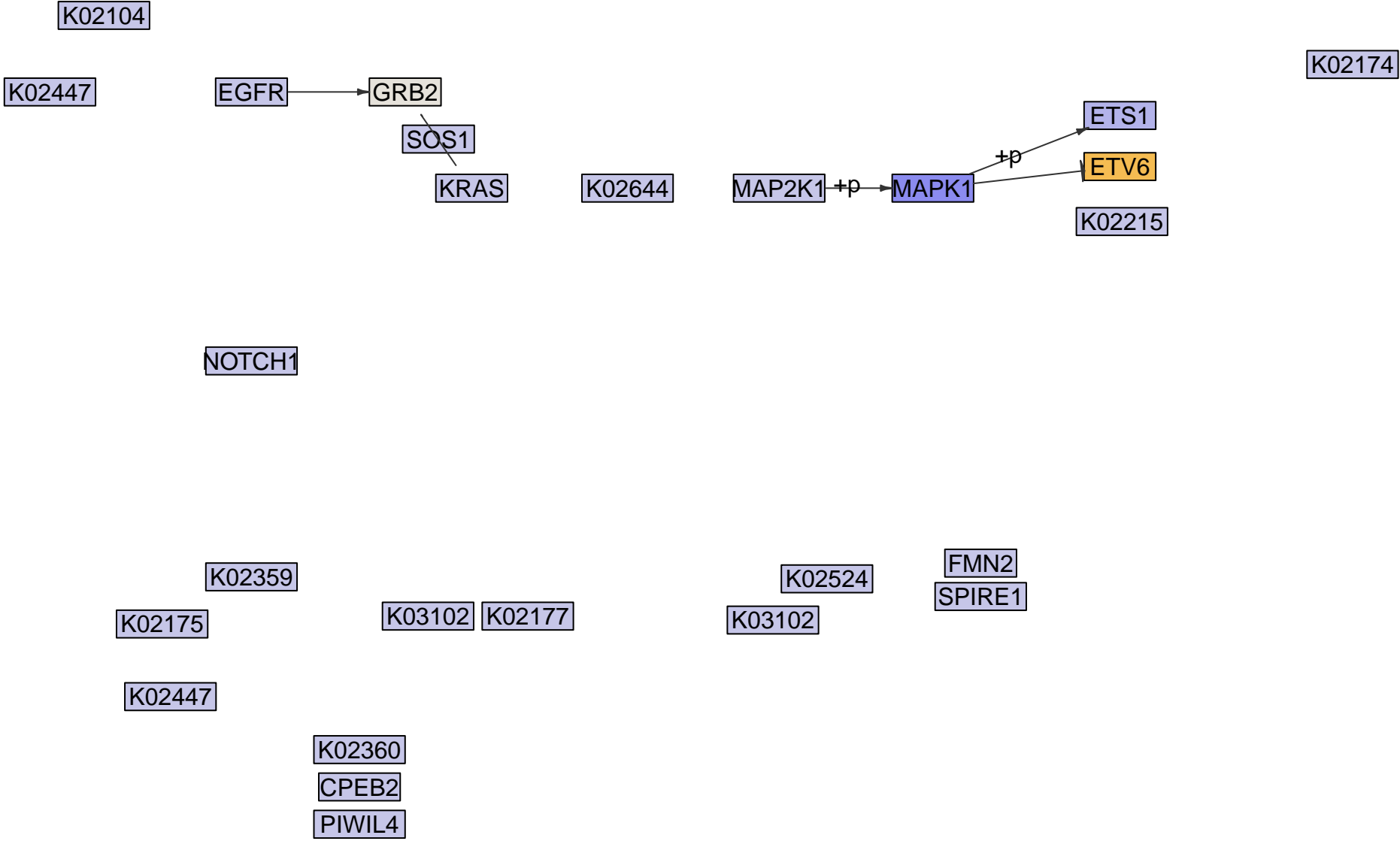


NOTCH1





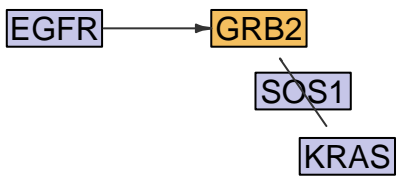
Dorso-ventral axis formation  
MPI-009



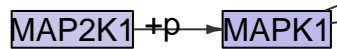
Dorso-ventral axis  
formation  
MPI-010

K02104

K02447



K02644



K02215

K02174

NOTCH1

K02359

K02175

K03102 K02177

K02524

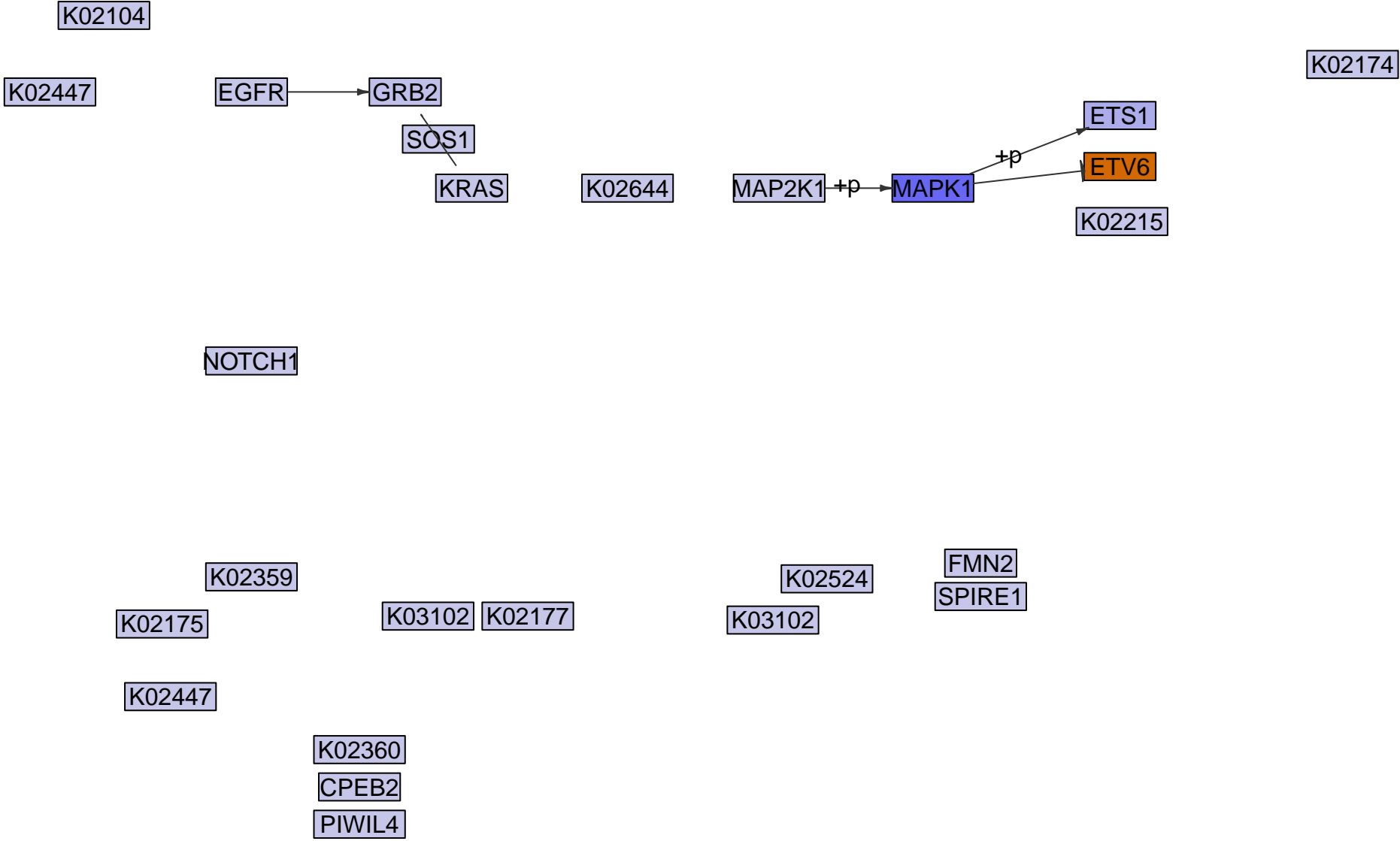
K03102

FMN2  
SPIRE1

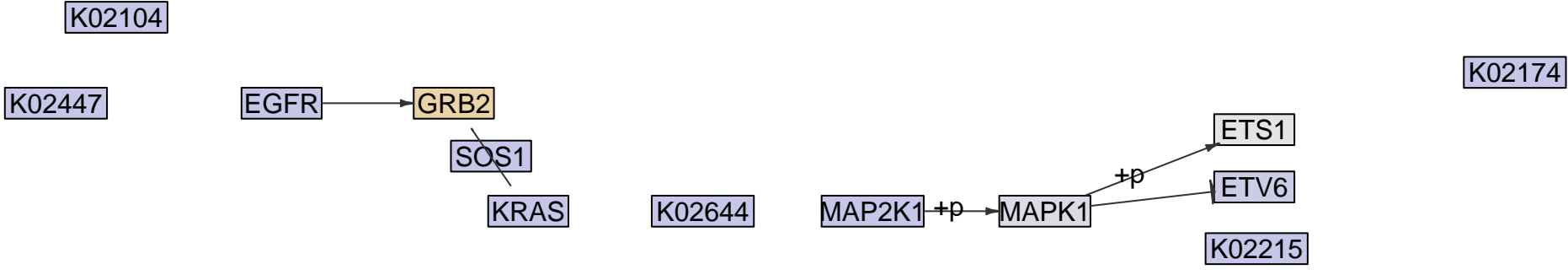
K02447

K02360  
CPEB2  
PIWIL4

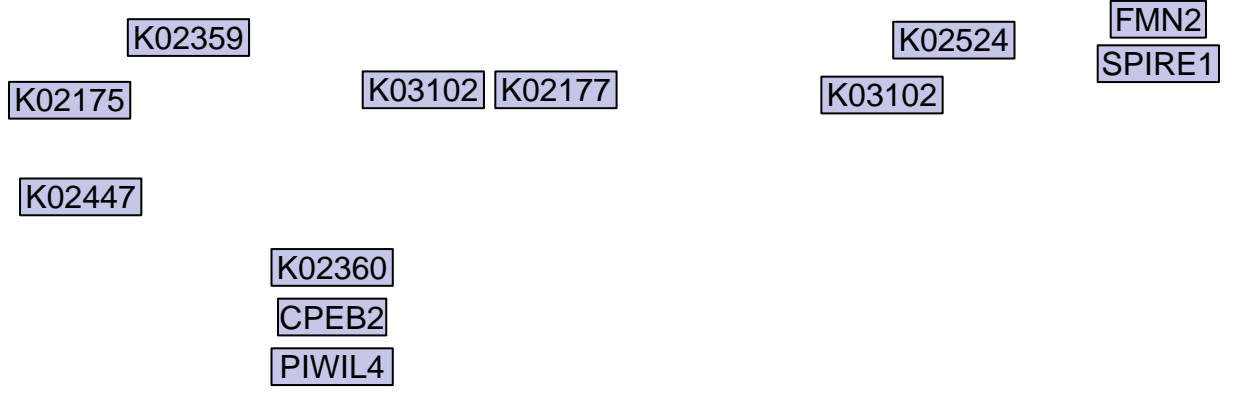
Dorso-ventral axis  
formation  
MPI-012



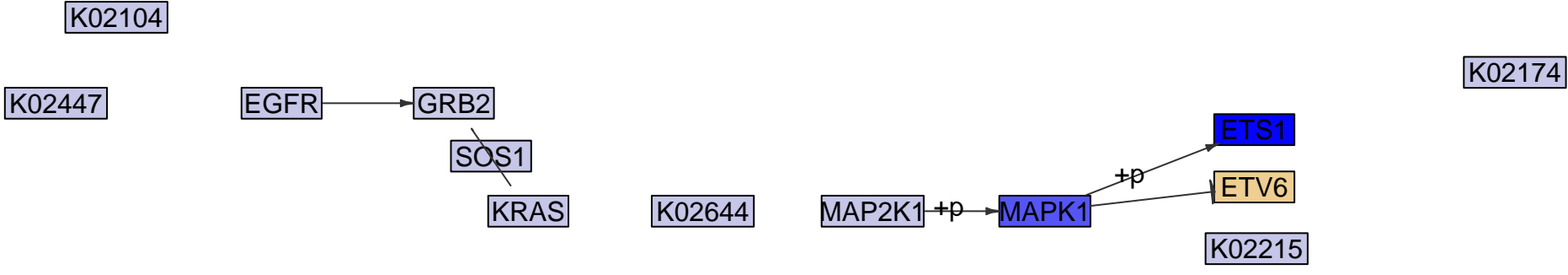
Dorso-ventral axis formation  
MPI-013



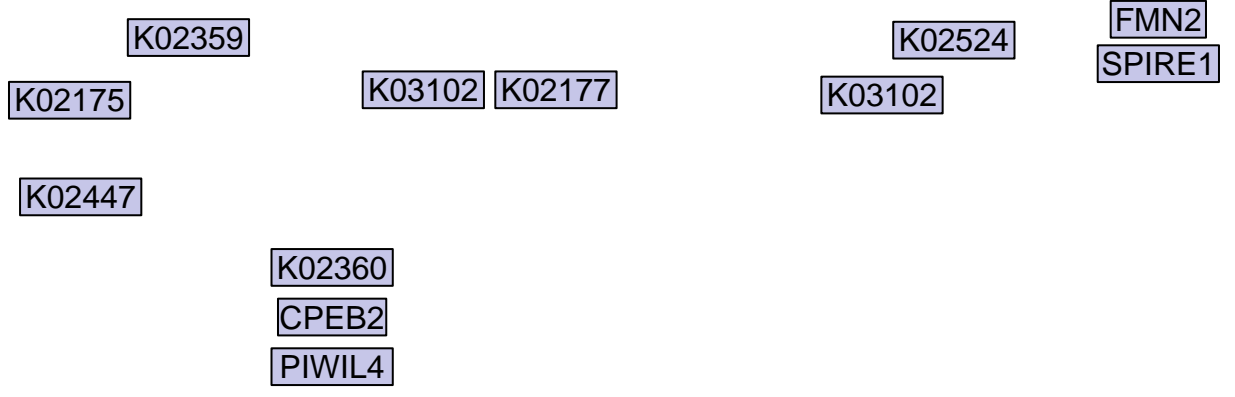
NOTCH1



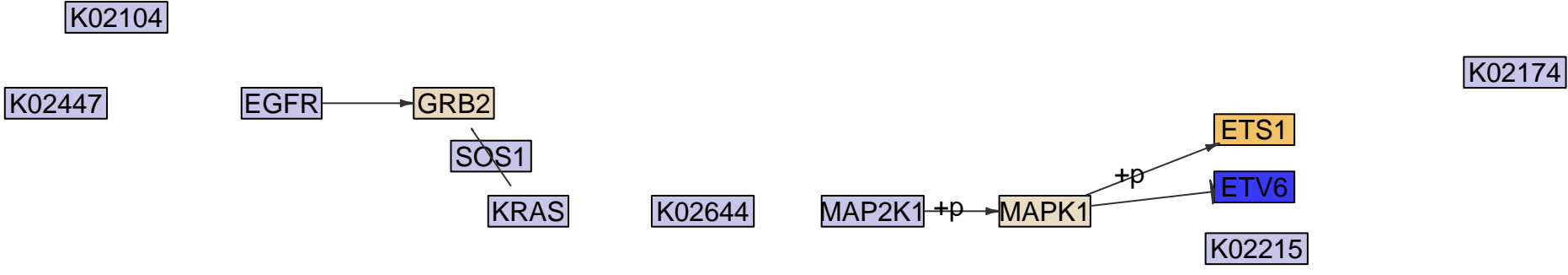
Dorso-ventral axis formation  
MPI-014



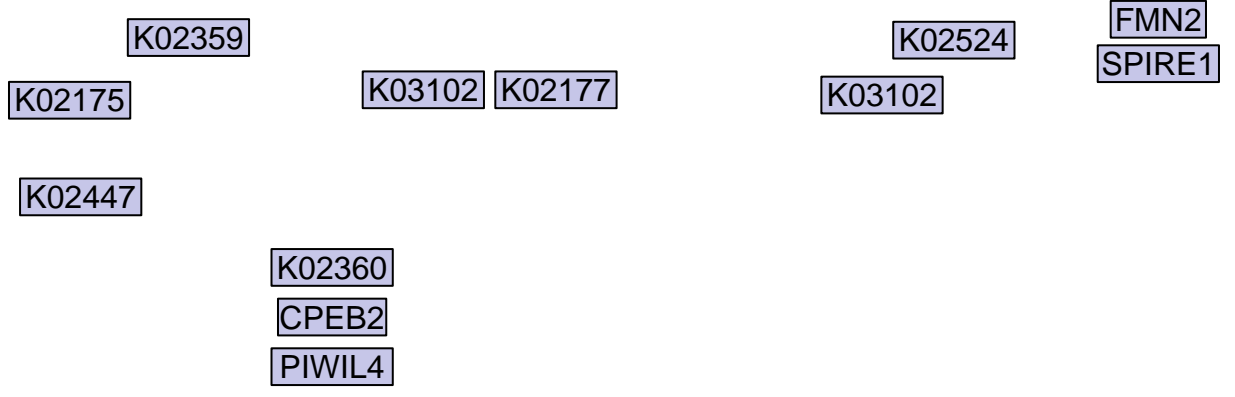
NOTCH1



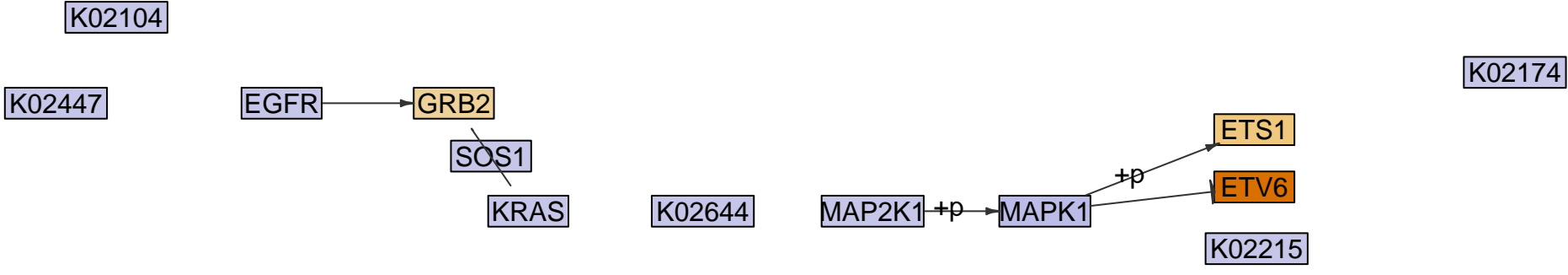
Dorso-ventral axis formation  
MPI-015



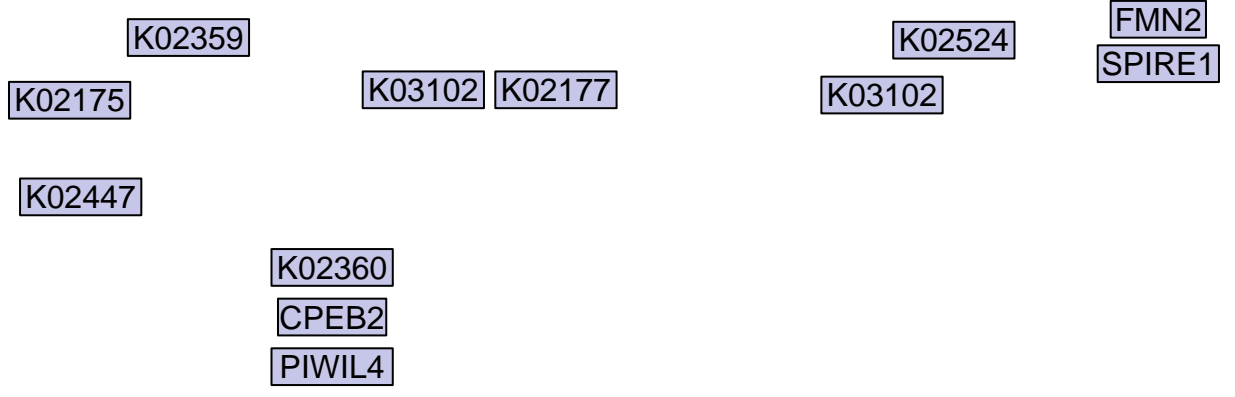
NOTCH1



Dorso-ventral axis formation  
MPI-021



NOTCH1



Dorso-ventral axis  
formation  
MPI-022

K02104

K02447

EGFR



GRB2

SOS1

KRAS

K02644

MAP2K1



MAPK1



ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

PIWIL4



Dorso-ventral axis  
formation  
MPI-025

K02104

K02447

EGFR



GRB2

SOS1

KRAS

K02644

MAP2K1



MAPK1



ETS1

ETV6

K02215

K02174

NOTCH1

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K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

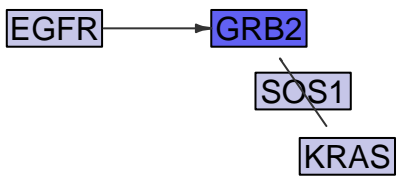
CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-029

K02104

K02447



K02644



K02174

K02215

NOTCH1

K02359

K02175

K03102 K02177

K02524

K03102

FMN2  
SPIRE1

K02447

K02360  
CPEB2  
PIWIL4

Dorso-ventral axis  
formation  
MPI-030

K02104

K02447

EGFR

GRB2

SOS1

KRAS

K02644

MAP2K1

MAPK1

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

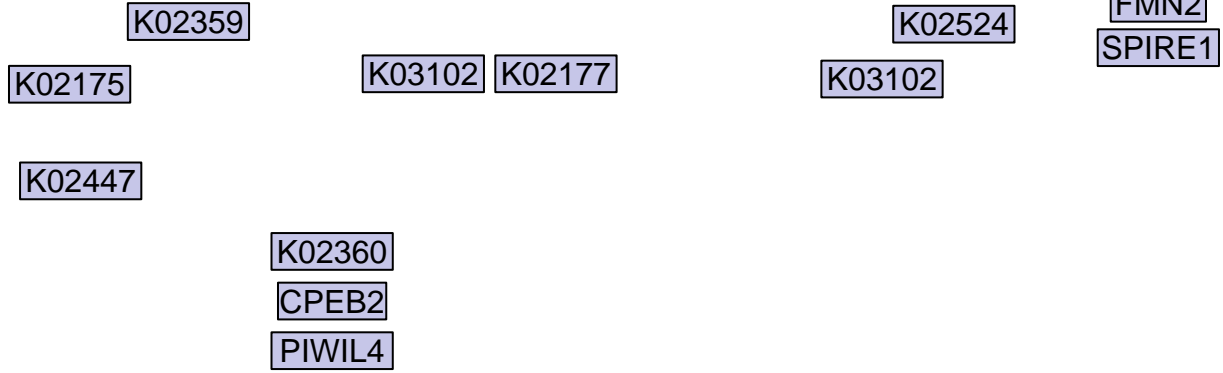
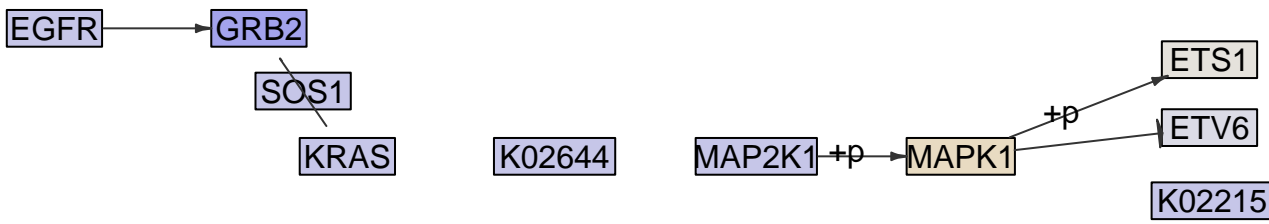
SPIRE1

K02447

K02360

CPEB2

PIWIL4

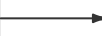


Dorso-ventral axis  
formation  
MPI-031

K02104

K02447

EGFR



GRB2

SOS1

KRAS

K02644

MAP2K1



MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-039

K02104

K02447

EGFR



GRB2

SOS1

KRAS

K02644

MAP2K1



MAPK1



ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-040

K02104

K02447

EGFR

GRB2

SOS1

KRAS

K02644

MAP2K1

MAPK1

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

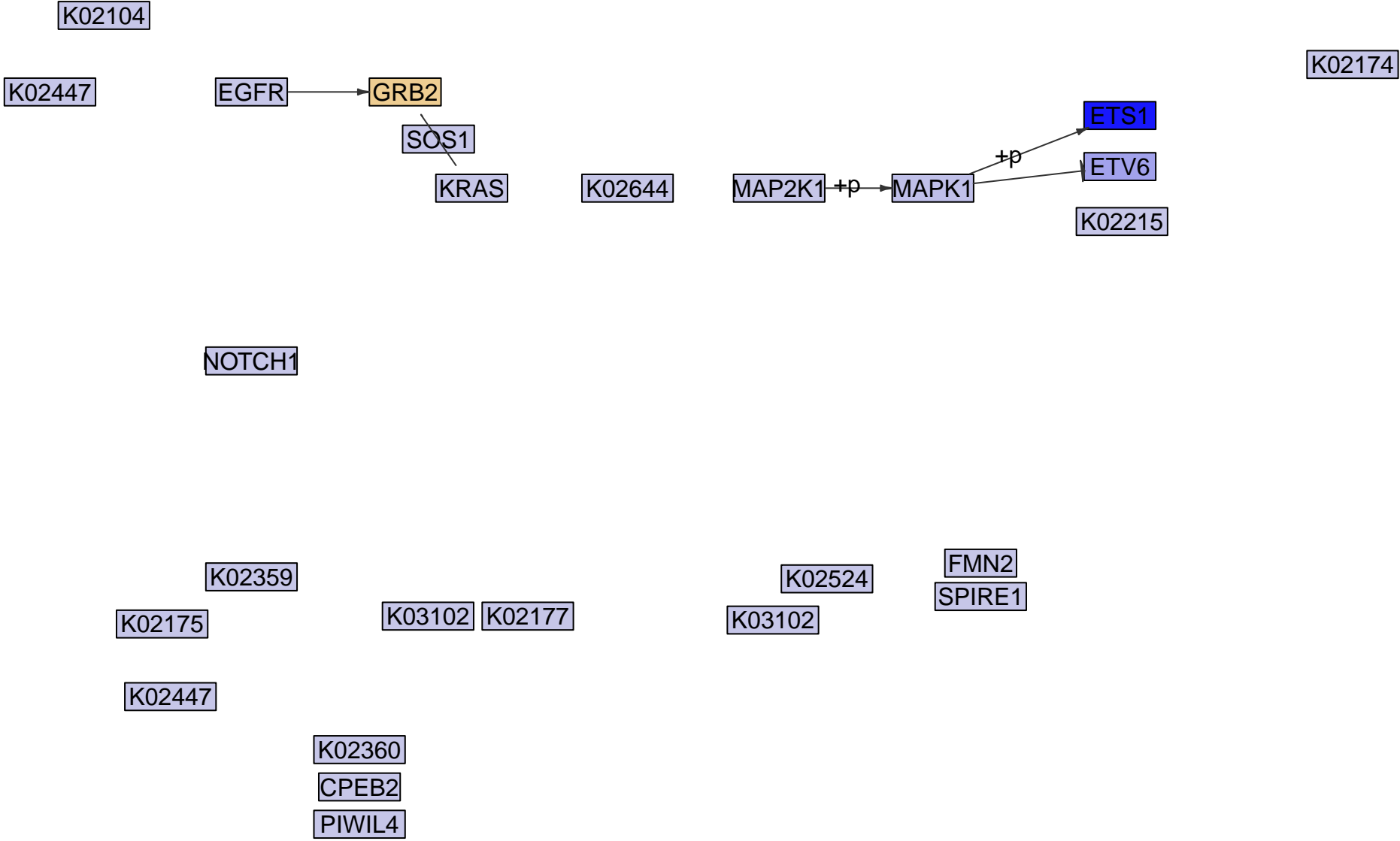
SPIRE1

K02447

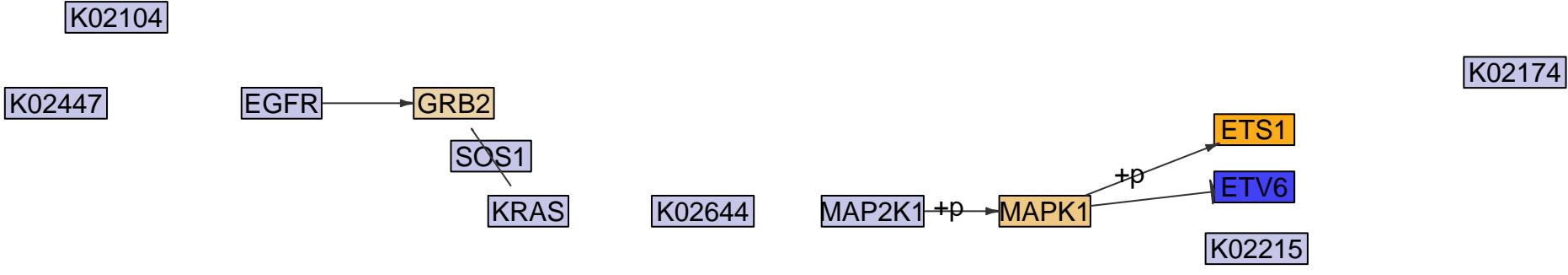
K02360

CPEB2

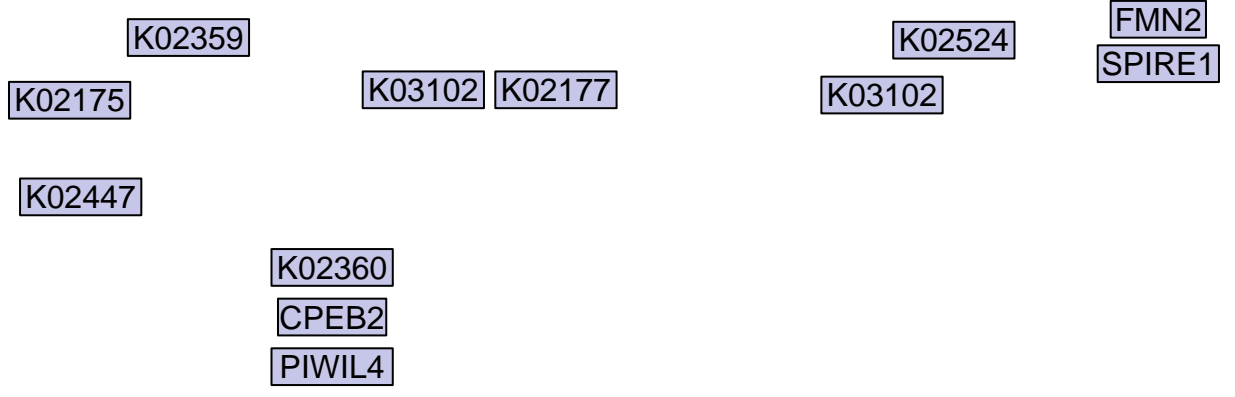
PIWIL4



Dorso-ventral axis formation  
MPI-045



NOTCH1



Dorso-ventral axis  
formation  
MPI-047

K02104

K02447

EGFR



GRB2

SOS1

KRAS

K02644

MAP2K1



MAPK1



ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

PIWIL4



Dorso-ventral axis  
formation  
MPI-053

K02104

K02447

EGFR

GRB2

SOS1

KRAS

K02644

MAP2K1

MAPK1

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

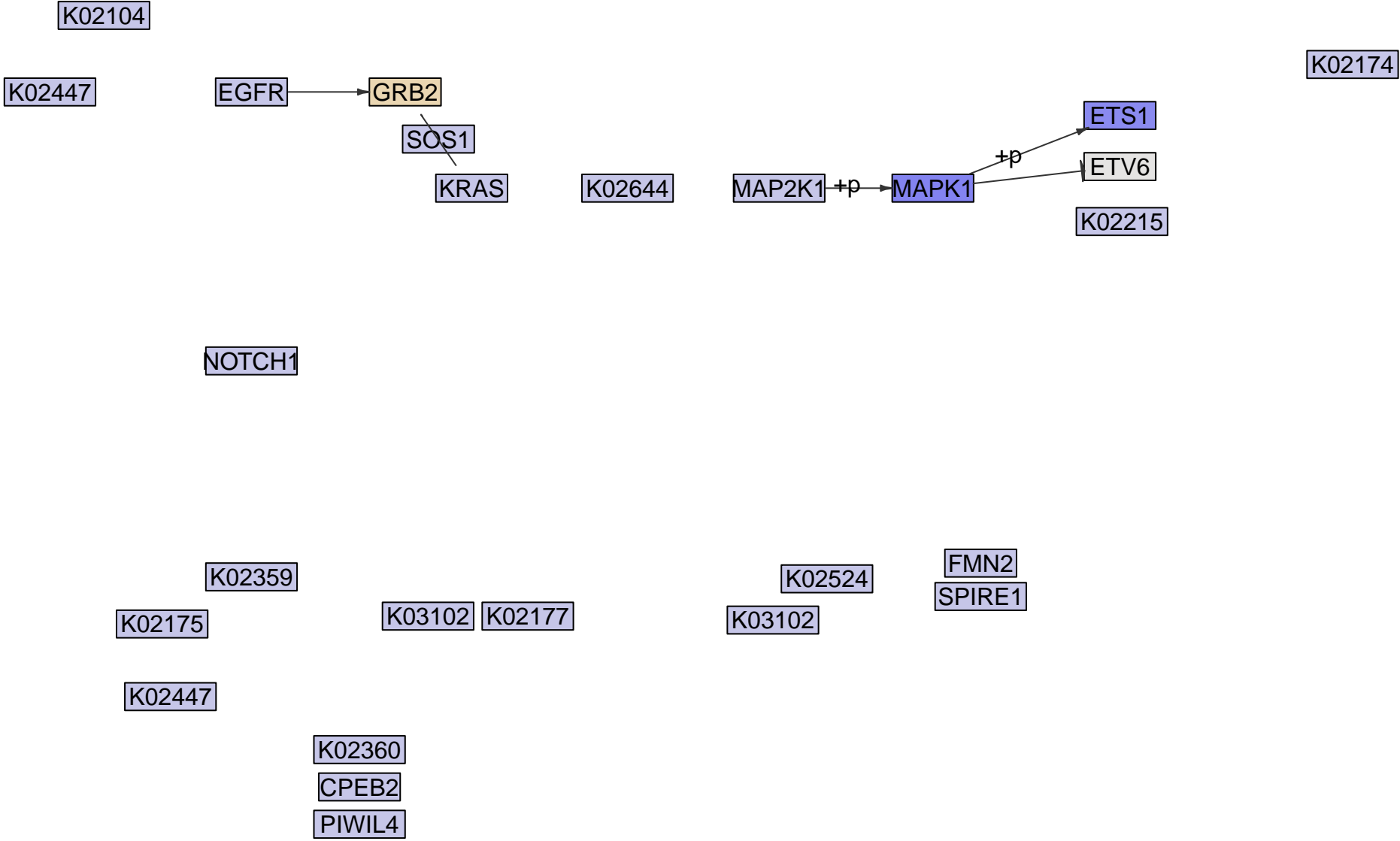
SPIRE1

K02447

K02360

CPEB2

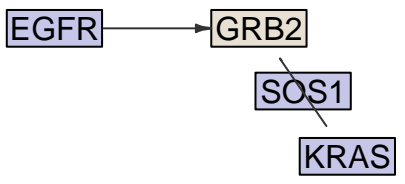
PIWIL4



Dorso-ventral axis  
formation  
MPI-062

K02104

K02447



K02644

MAP2K1

+p

MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

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K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

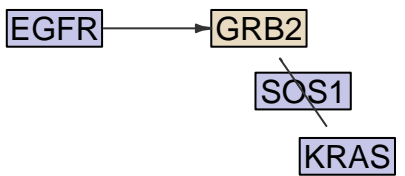
CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-063

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K02447



K02644



K02174

K02215

NOTCH1

K02359

K02175

K03102 K02177

K02524

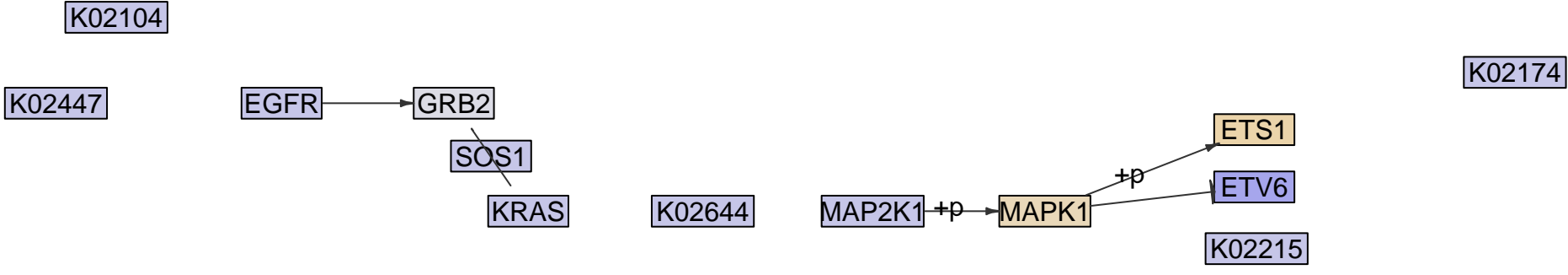
K03102

FMN2  
SPIRE1

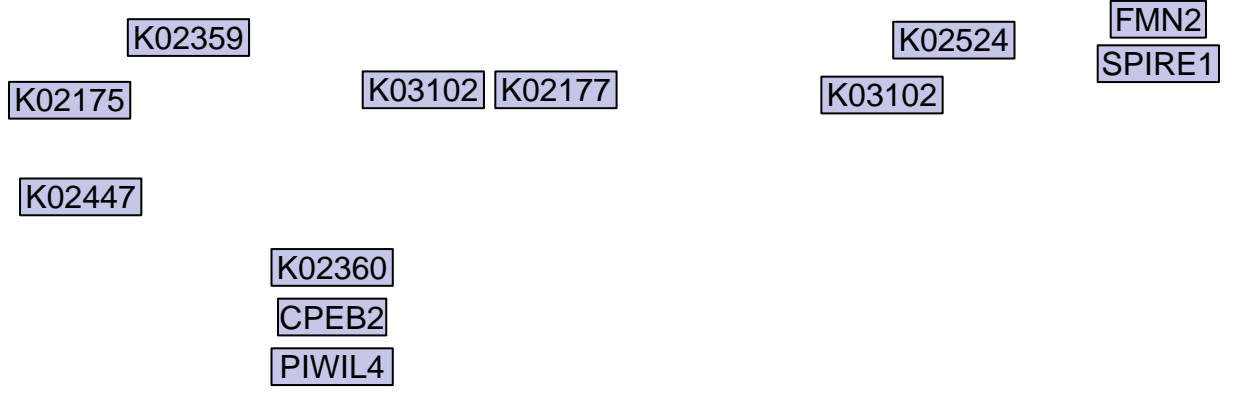
K02447

K02360  
CPEB2  
PIWIL4

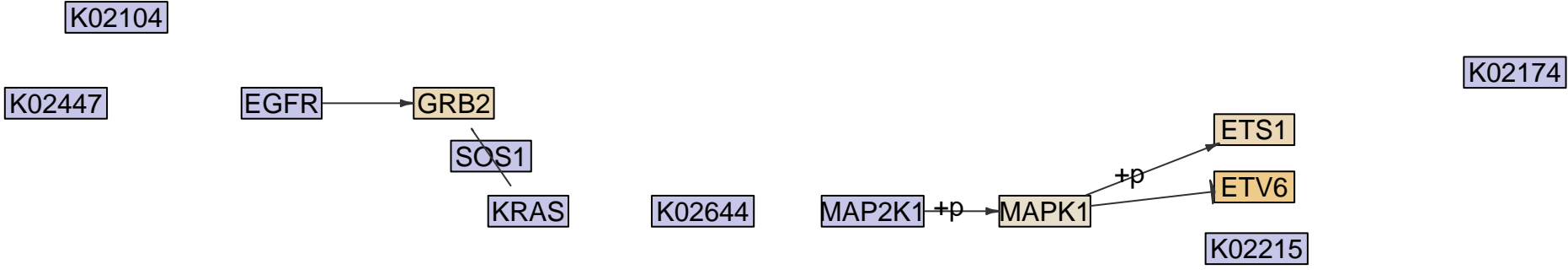
Dorso-ventral axis formation  
MPI-069



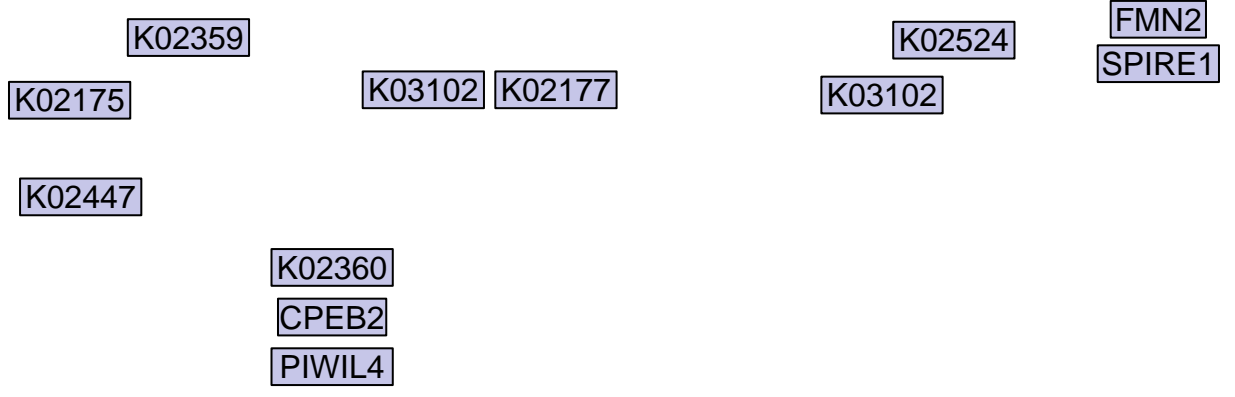
NOTCH1



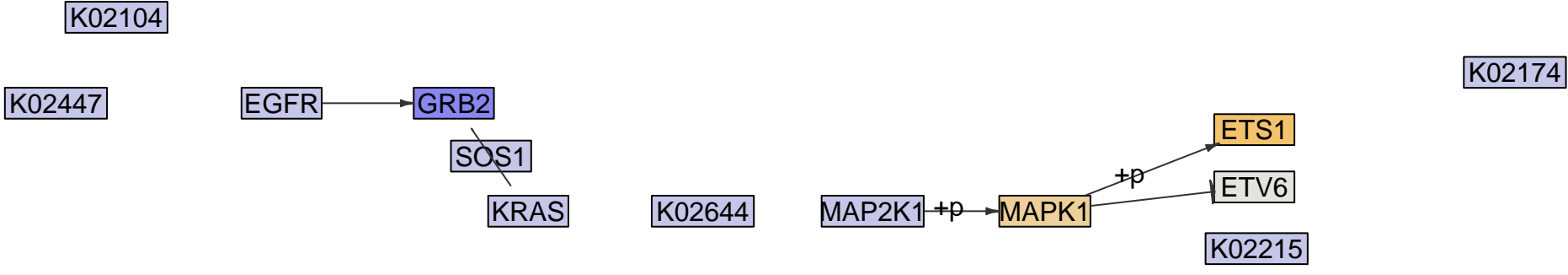
Dorso-ventral axis formation  
MPI-073



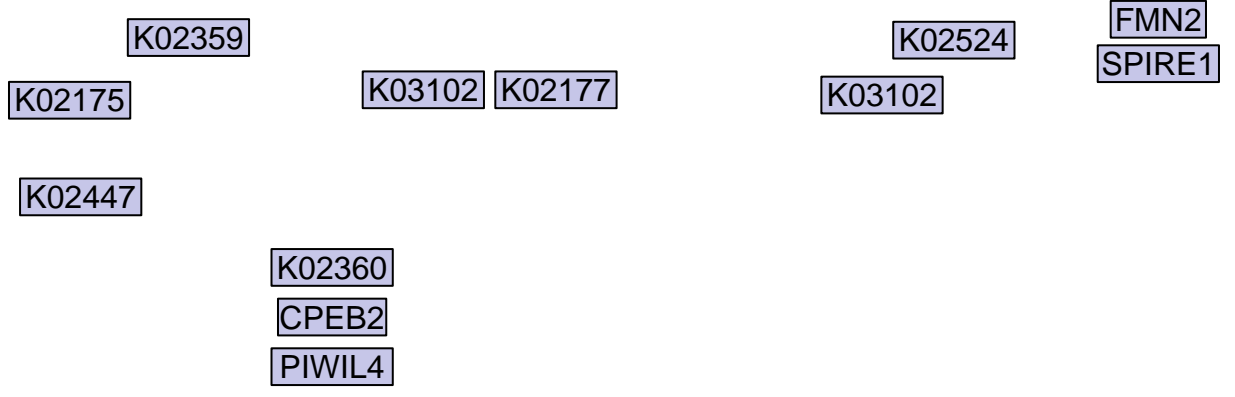
NOTCH1



Dorso-ventral axis formation  
MPI-074



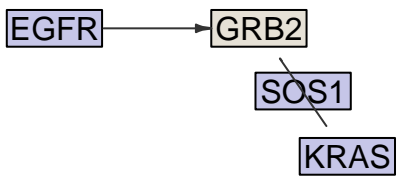
NOTCH1



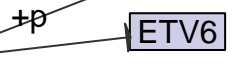
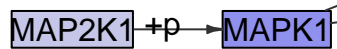
Dorso-ventral axis  
formation  
MPI-076

K02104

K02447



K02644



K02215

K02174

NOTCH1

K02359

K02175

K03102 K02177

K02524

K03102

FMN2  
SPIRE1

K02447

K02360  
CPEB2  
PIWIL4

Dorso-ventral axis  
formation  
MPI-083

K02104

K02447

EGFR



GRB2

SOS1

KRAS

K02644

MAP2K1



MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

PIWIL4



Dorso-ventral axis  
formation  
MPI-088

K02104

K02447

EGFR



GRB2

~~SOS1~~

KRAS

K02644

MAP2K1



MAPK1



ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-092

K02104

K02447

EGFR

GRB2

SOS1

KRAS

K02644

MAP2K1

+p

MAPK1

+p

ETS1

ETV6

K02215

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NOTCH1

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K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

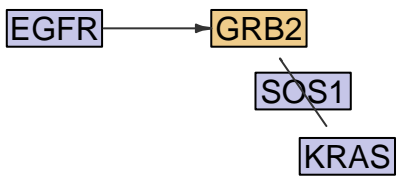
CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-096

K02104

K02447



K02644

MAP2K1

+p

MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

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K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

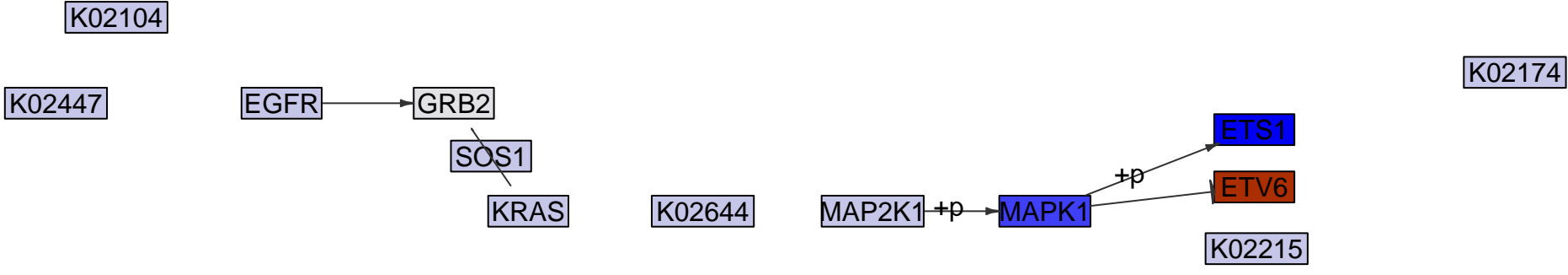
K02447

K02360

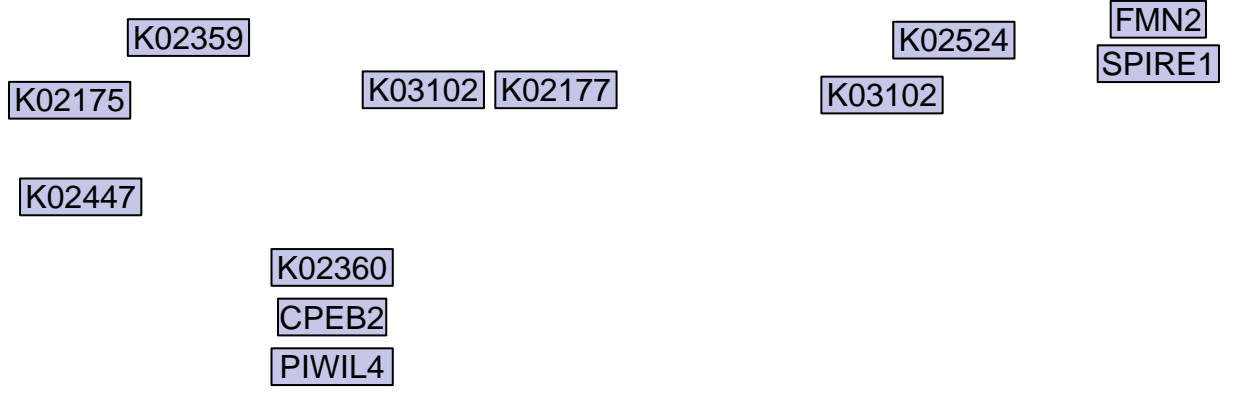
CPEB2

PIWIL4

Dorso-ventral axis formation  
MPI-098



NOTCH1



Dorso-ventral axis  
formation  
MPI-100

K02104

K02447

EGFR

GRB2

SOS1

KRAS

K02644

MAP2K1

+p

MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-105

K02104

K02447

EGFR



GRB2

SOS1

KRAS

K02644

MAP2K1



MAPK1



ETS1

ETV6

K02215

K02174

NOTCH1

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K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

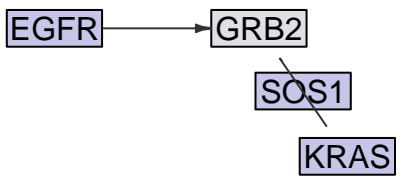
CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-106

K02104

K02447



K02644

MAP2K1

+p

MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-108

K02104

K02447

EGFR

GRB2

SOS1

KRAS

K02644

MAP2K1

MAPK1

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

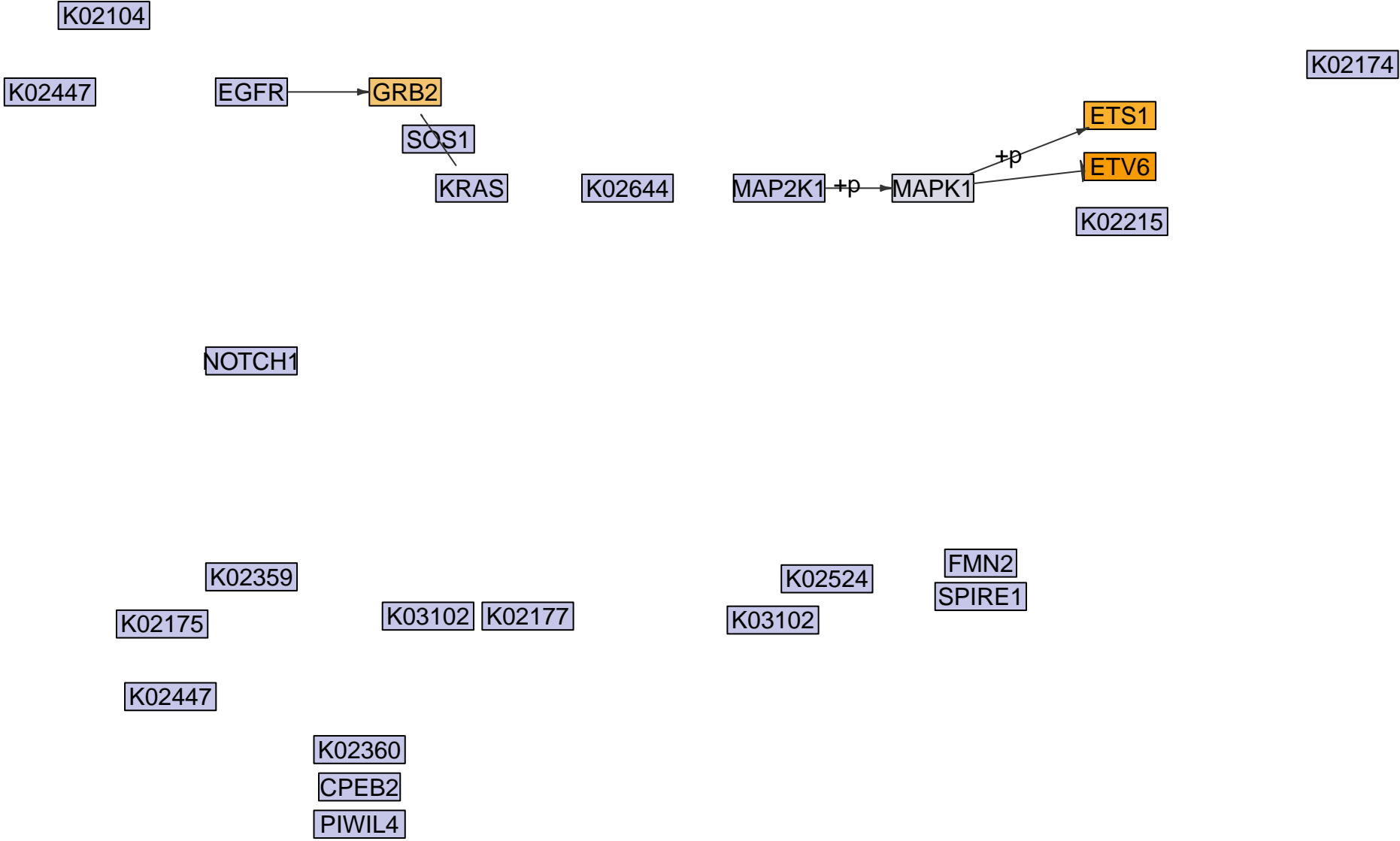
SPIRE1

K02447

K02360

CPEB2

PIWIL4

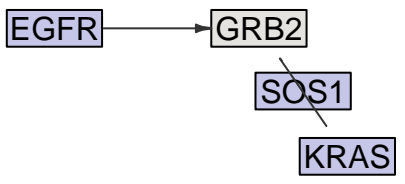




Dorso-ventral axis  
formation  
MPI-109

K02104

K02447



K02644

MAP2K1

+p

MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-110

K02104

K02447

EGFR

GRB2

SOS1

KRAS

K02644

MAP2K1

MAPK1

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

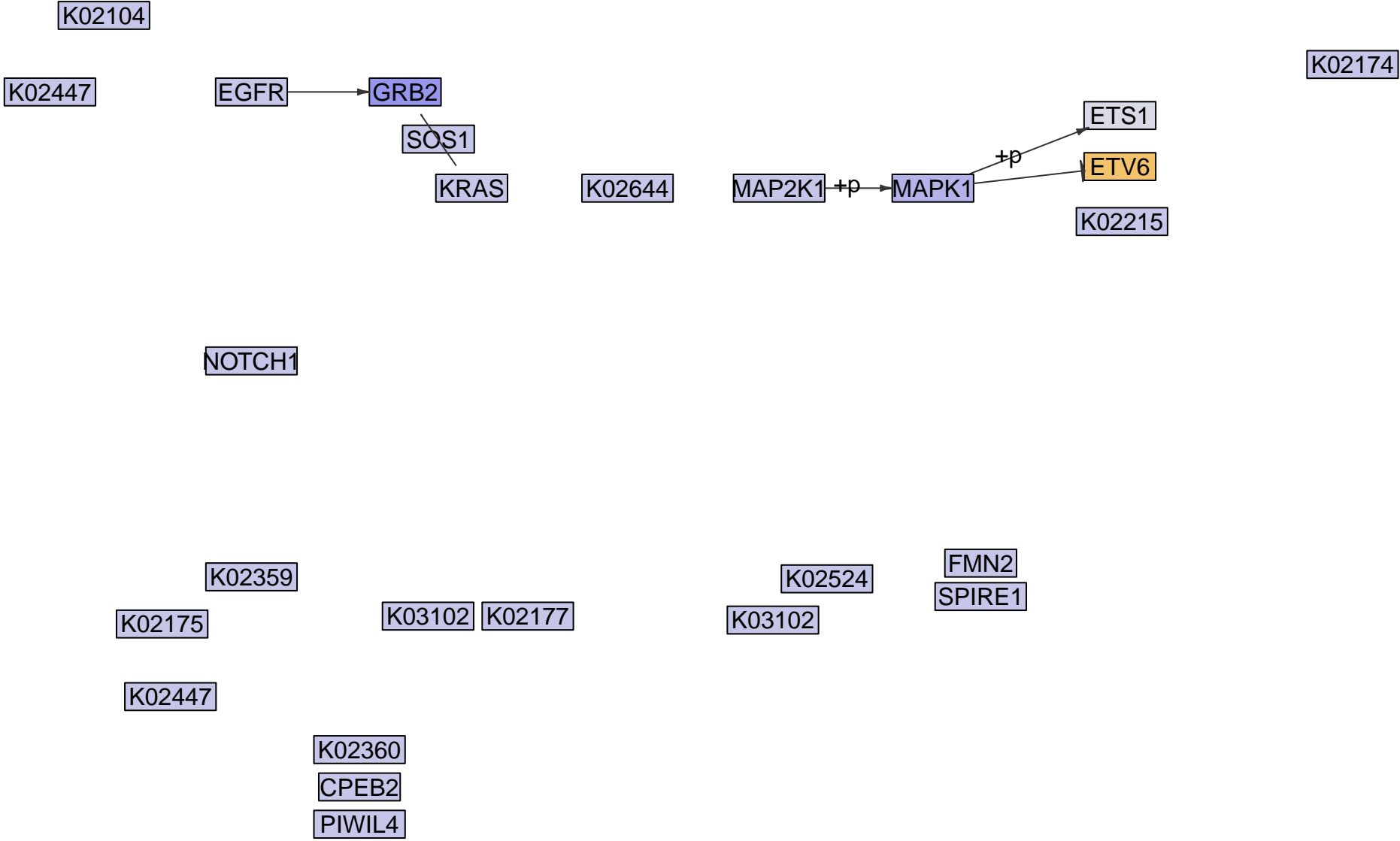
SPIRE1

K02447

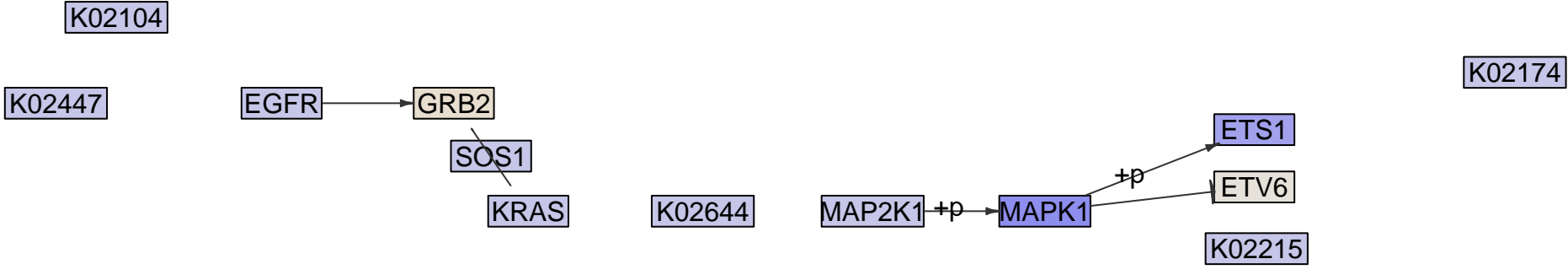
K02360

CPEB2

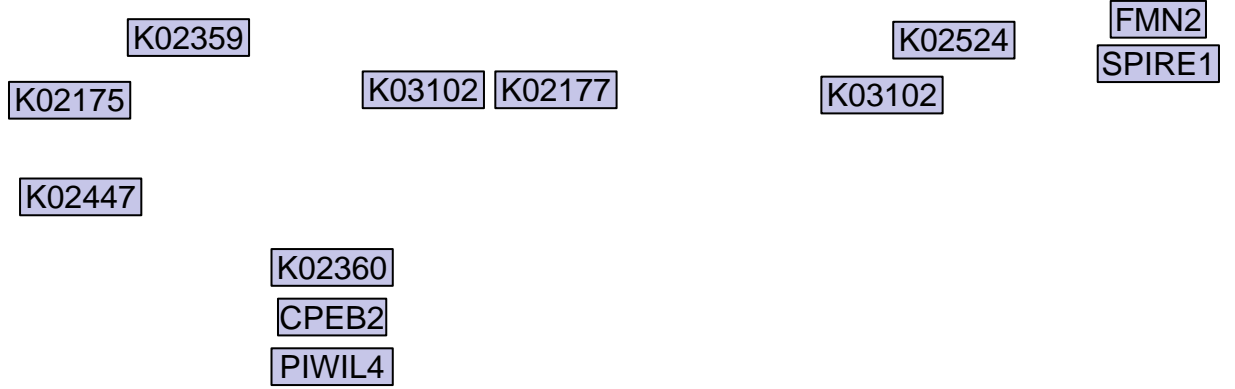
PIWIL4



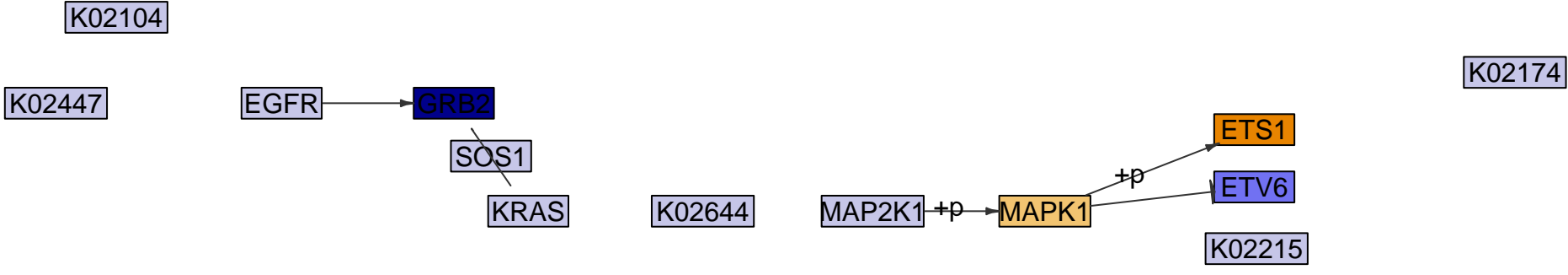
Dorso-ventral axis formation  
MPI-111



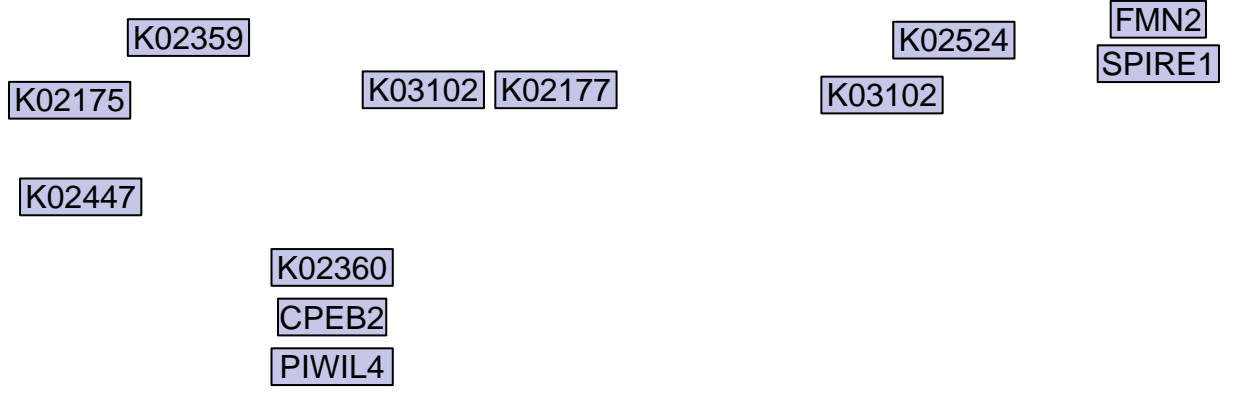
NOTCH1



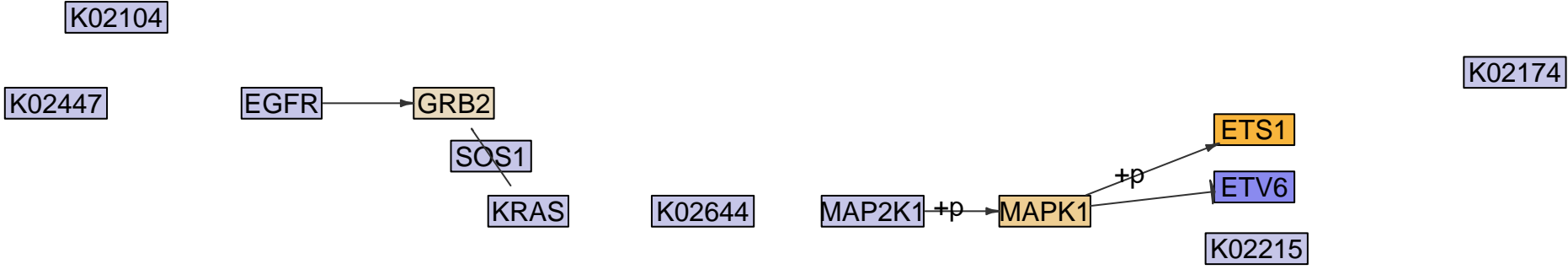
Dorso-ventral axis formation  
MPI-113



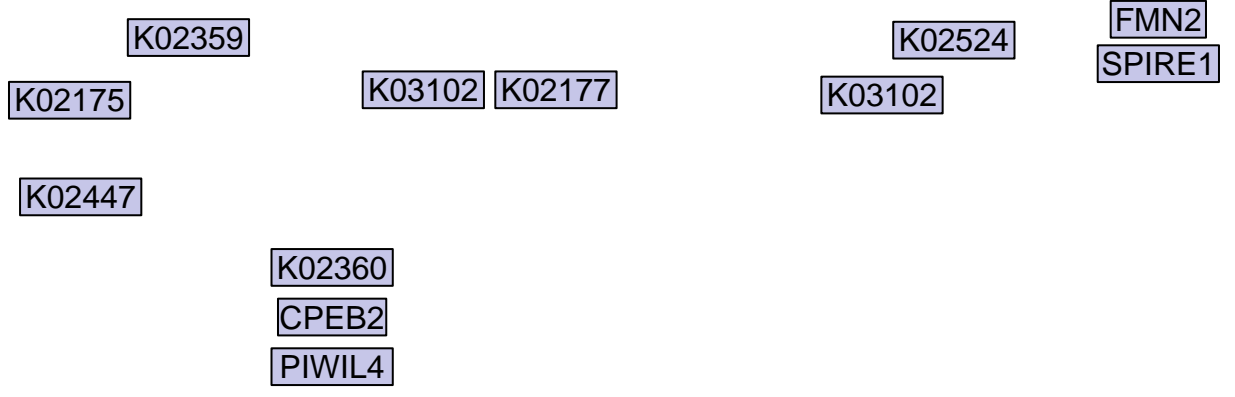
NOTCH1



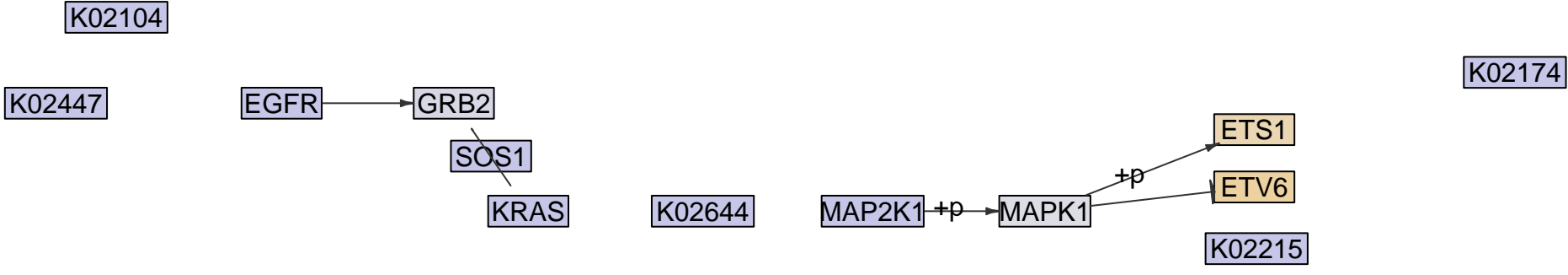
Dorso-ventral axis formation  
MPI-115



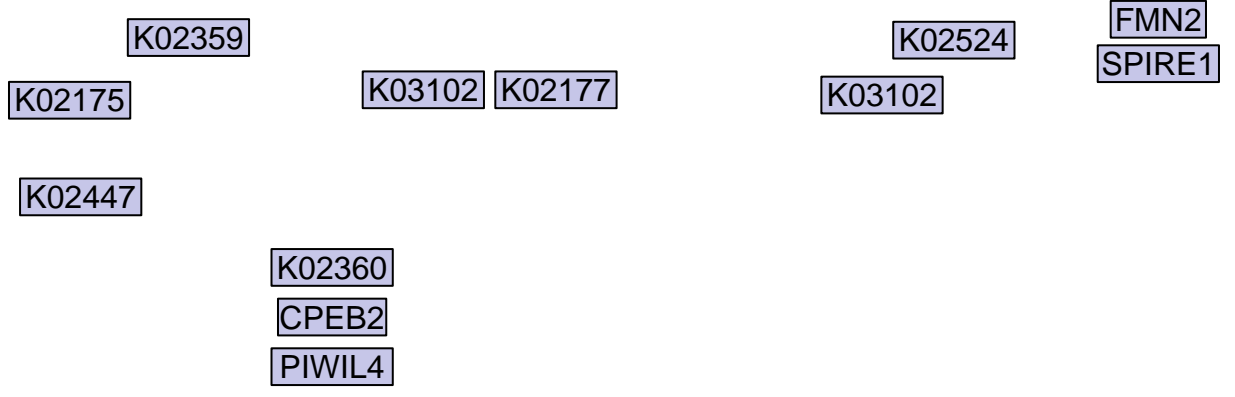
NOTCH1



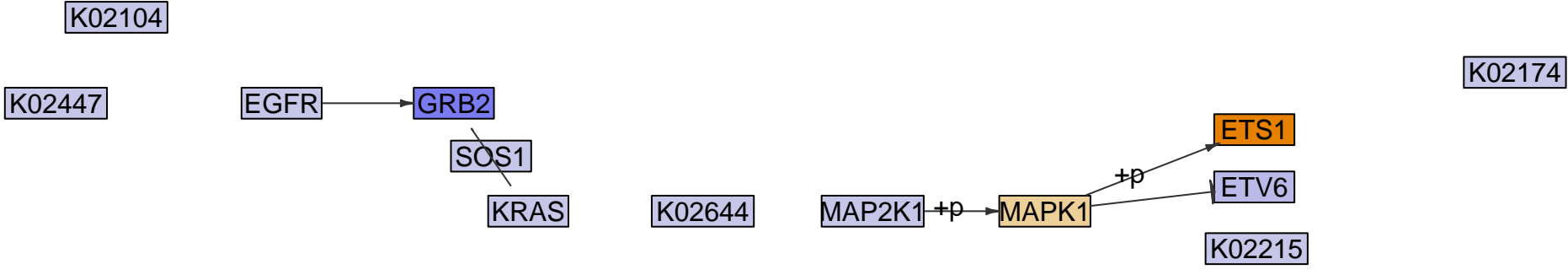
Dorso-ventral axis formation  
MPI-118



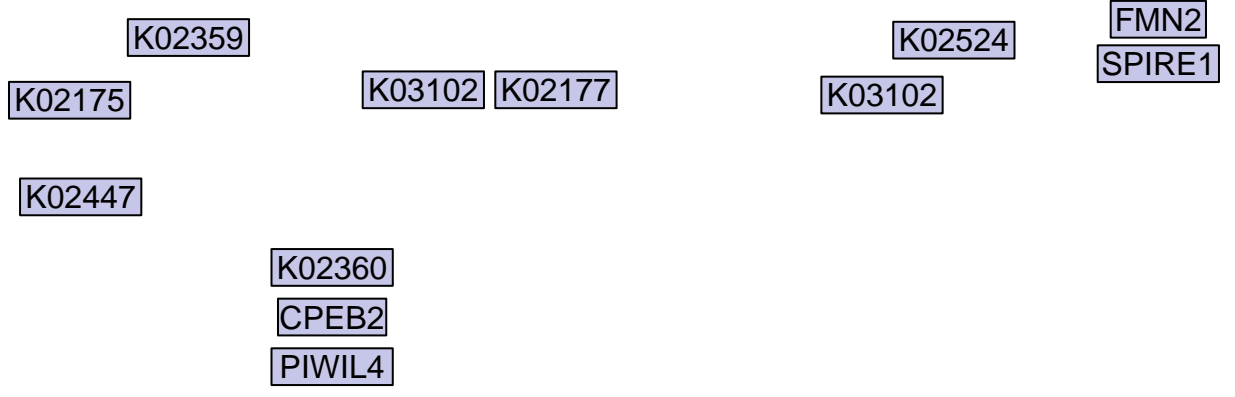
NOTCH1



Dorso-ventral axis formation  
MPI-119



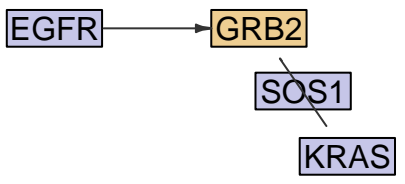
NOTCH1



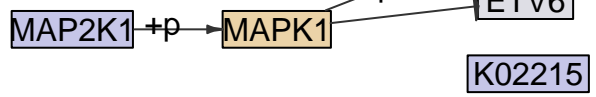
Dorso-ventral axis  
formation  
MPI-122

K02104

K02447



K02644



K02174

K02215

NOTCH1

K02359

K02175

K03102 K02177

K02524

K03102

FMN2  
SPIRE1

K02447

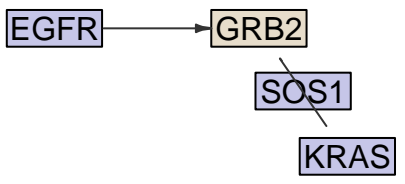
K02360  
CPEB2  
PIWIL4



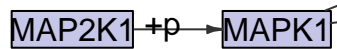
Dorso-ventral axis  
formation  
MPI-127

K02104

K02447



K02644



K02215

K02174

NOTCH1

K02359

K02175

K03102 K02177

K02524

K03102

FMN2  
SPIRE1

K02447

K02360  
CPEB2  
PIWIL4

Dorso-ventral axis  
formation  
MPI-128

K02104

K02447

EGFR



GRB2

SOS1

KRAS

K02644

MAP2K1



MAPK1



ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

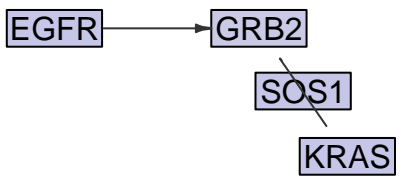
CPEB2

PIWIL4

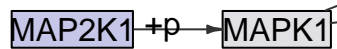
Dorso-ventral axis  
formation  
MPI-129

K02104

K02447



K02644



K02215

K02174

NOTCH1

K02359

K02175

K03102 K02177

K02524

K03102

FMN2  
SPIRE1

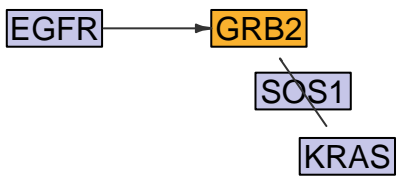
K02447

K02360  
CPEB2  
PIWIL4

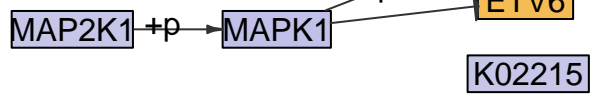
Dorso-ventral axis  
formation  
MPI-130

K02104

K02447



K02644



K02174

K02215

NOTCH1

K02359

K02175

K03102 K02177

K02524

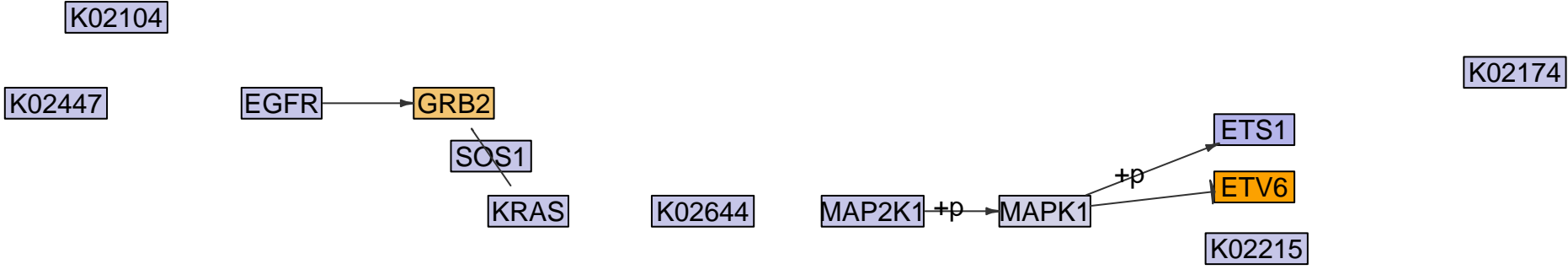
K03102

FMN2  
SPIRE1

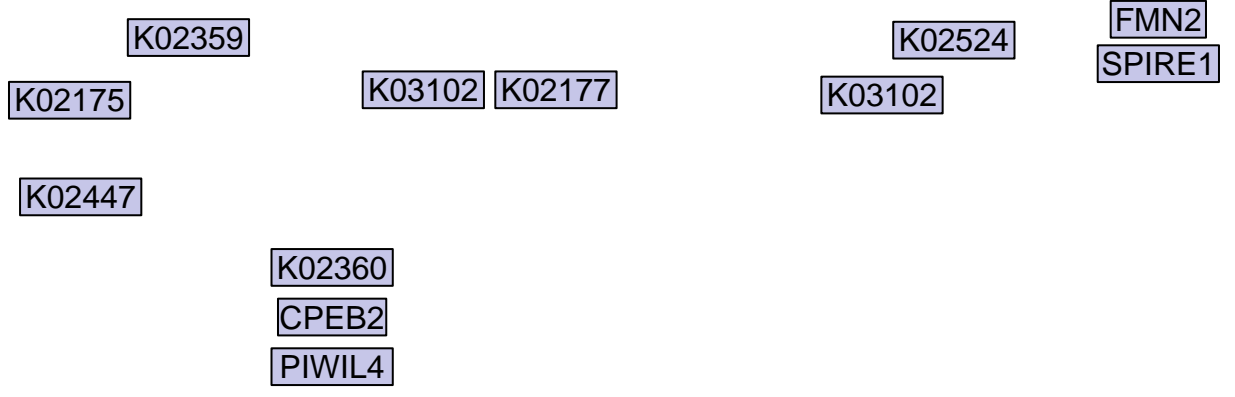
K02447

K02360  
CPEB2  
PIWIL4

Dorso-ventral axis formation  
MPI-132



NOTCH1



Dorso-ventral axis  
formation  
MPI-133

K02104

K02447

EGFR



GRB2

SOS1

KRAS

K02644

MAP2K1



MAPK1



ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-134

K02104

K02447

EGFR



GRB2

SOS1

KRAS

K02644

MAP2K1



MAPK1



ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

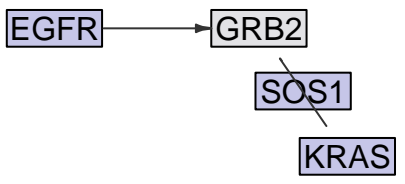
CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-135

K02104

K02447



K02644

MAP2K1

+p

MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

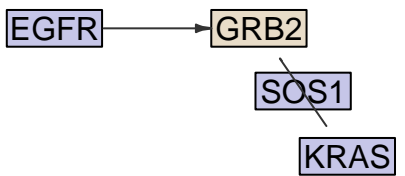
PIWIL4



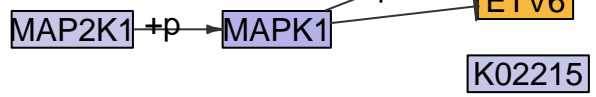
Dorso-ventral axis  
formation  
MPI-136

K02104

K02447



K02644



K02174

K02215

NOTCH1

K02359

K02175

K03102 K02177

K02524

K03102

FMN2  
SPIRE1

K02447

K02360  
CPEB2  
PIWIL4

Dorso-ventral axis  
formation  
MPI-141

K02104

K02447

EGFR



GRB2

SOS1

KRAS

K02644

MAP2K1



MAPK1



ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

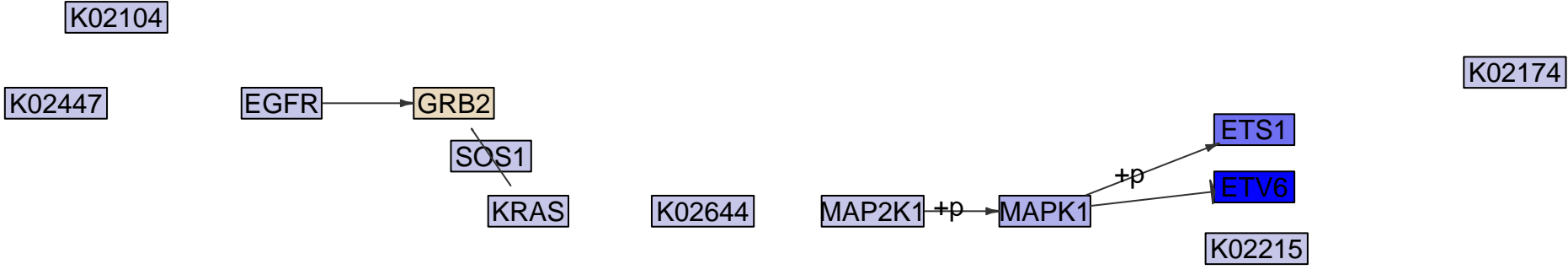
K02447

K02360

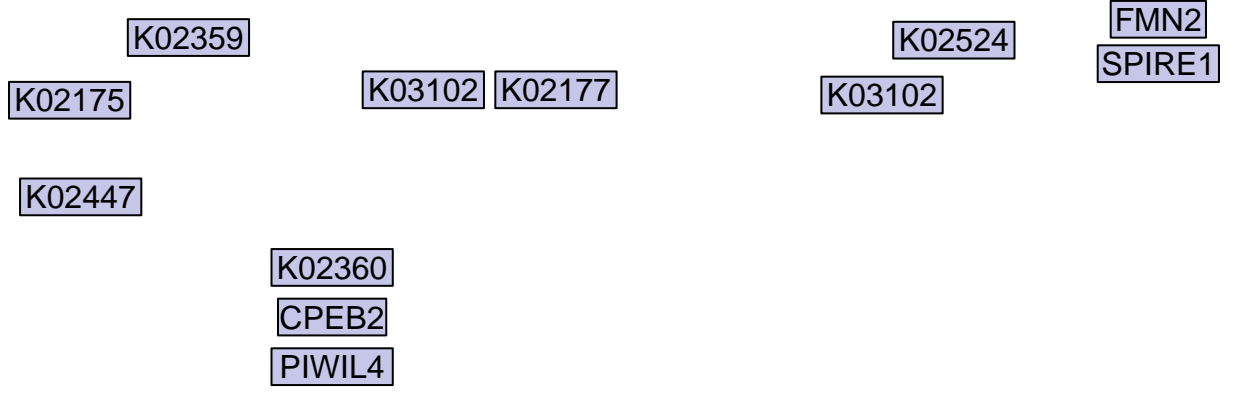
CPEB2

PIWIL4

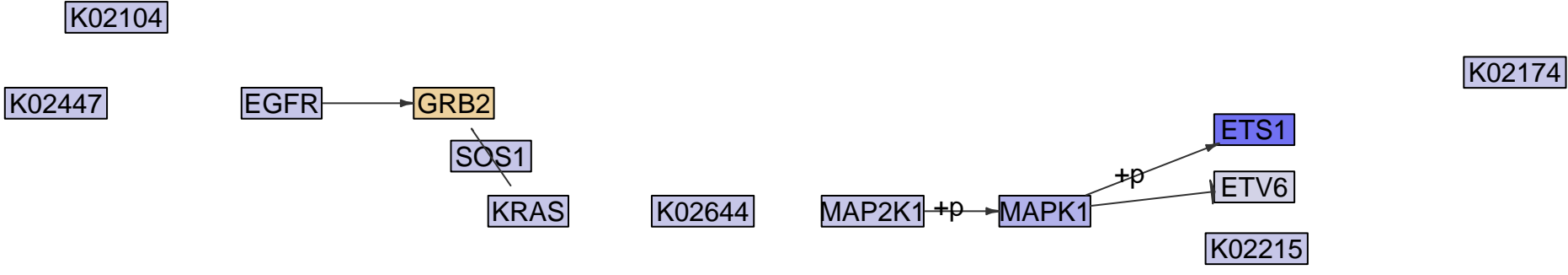
Dorso-ventral axis formation  
MPI-142



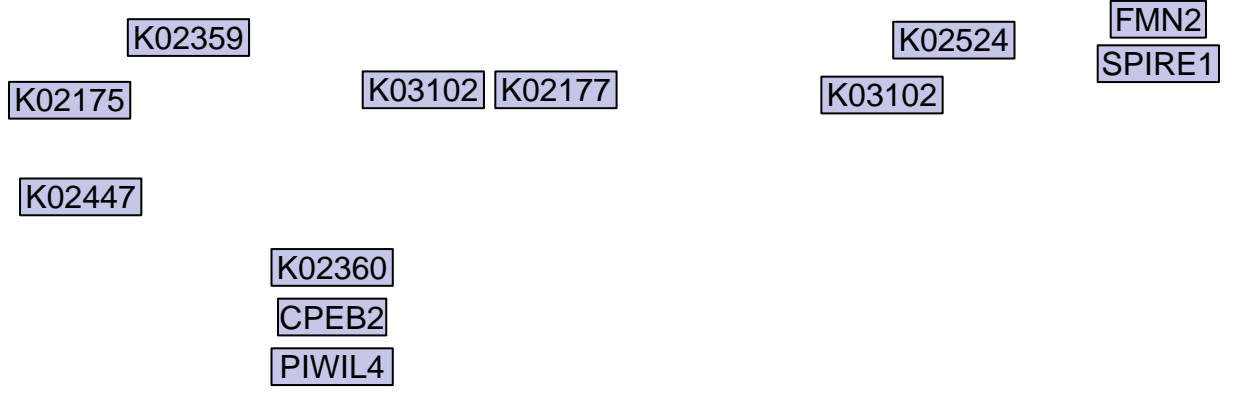
NOTCH1



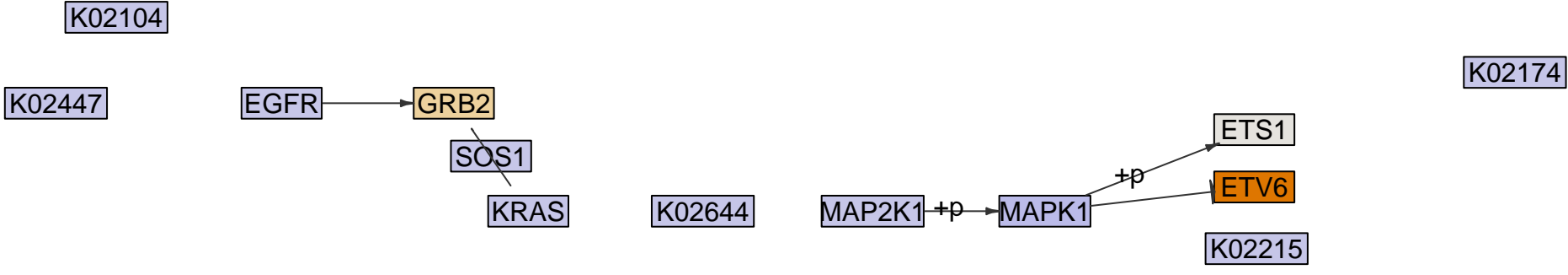
Dorso-ventral axis formation  
MPI-145



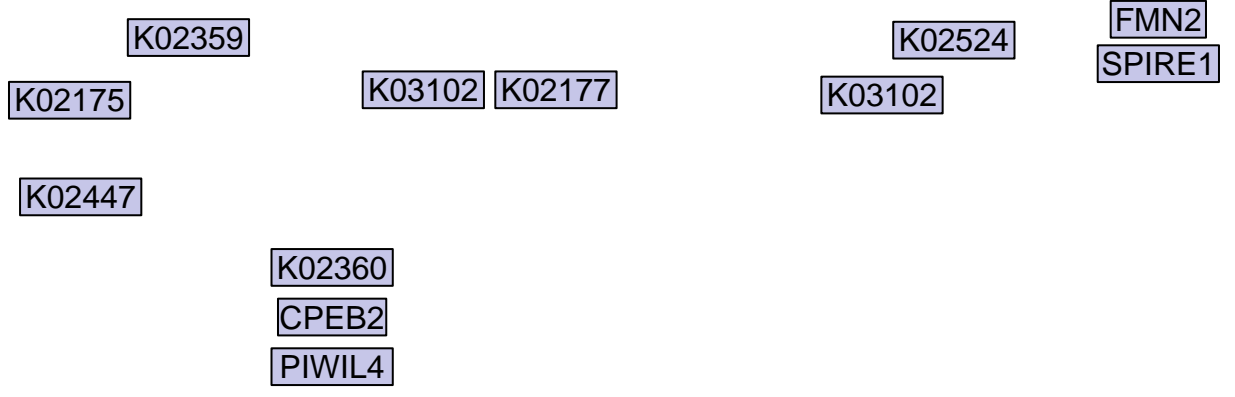
NOTCH1



Dorso-ventral axis formation  
MPI-146



NOTCH1



Dorso-ventral axis  
formation  
MPI-149

K02104

K02447

EGFR



GRB2

SOS1

KRAS

K02644

MAP2K1



MAPK1



ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-150

K02104

K02447

EGFR



GRB2

SOS1

KRAS

K02644

MAP2K1



MAPK1



ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

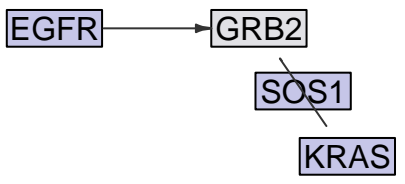
CPEB2

PIWIL4

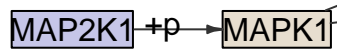
Dorso-ventral axis  
formation  
MPI-151

K02104

K02447



K02644



+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

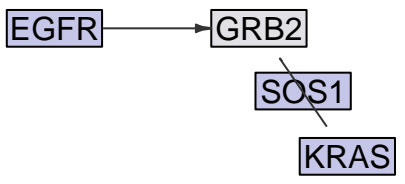
PIWIL4



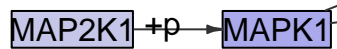
Dorso-ventral axis  
formation  
MPI-152

K02104

K02447



K02644



+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

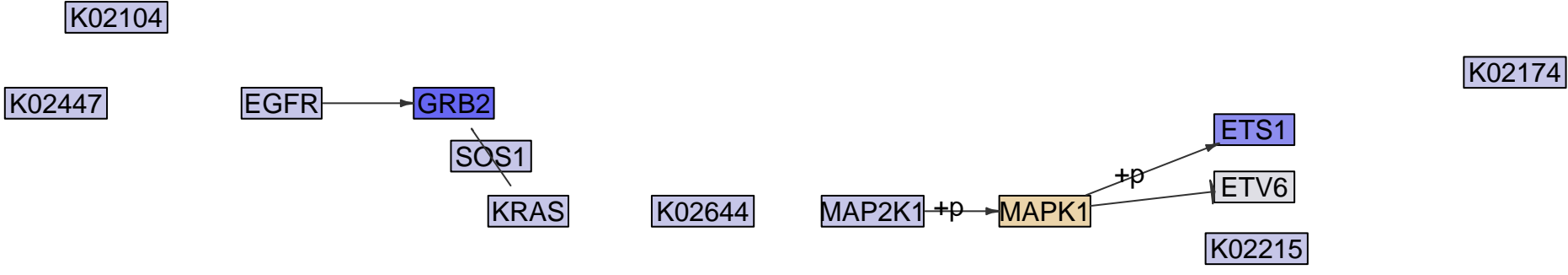
K02447

K02360

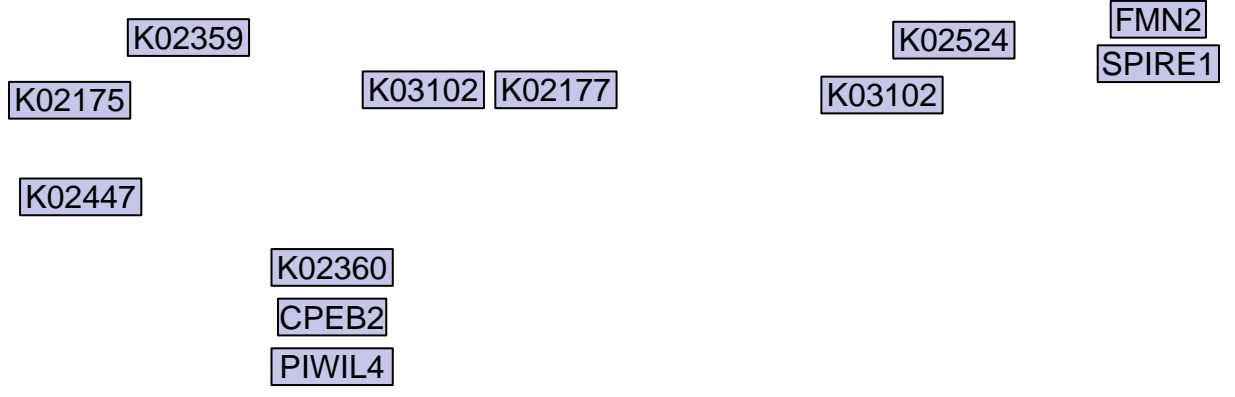
CPEB2

PIWIL4

Dorso-ventral axis formation  
MPI-153



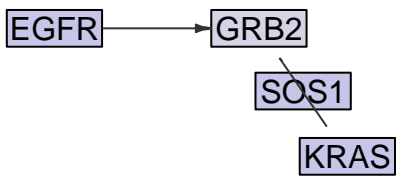
NOTCH1



Dorso-ventral axis  
formation  
MPI-154

K02104

K02447



K02644

MAP2K1

MAPK1

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-155

K02104

K02447

EGFR

GRB2

SOS1

KRAS

K02644

MAP2K1

+p

MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-159

K02104

K02447

EGFR

GRB2

SOS1

KRAS

K02644

MAP2K1

MAPK1

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

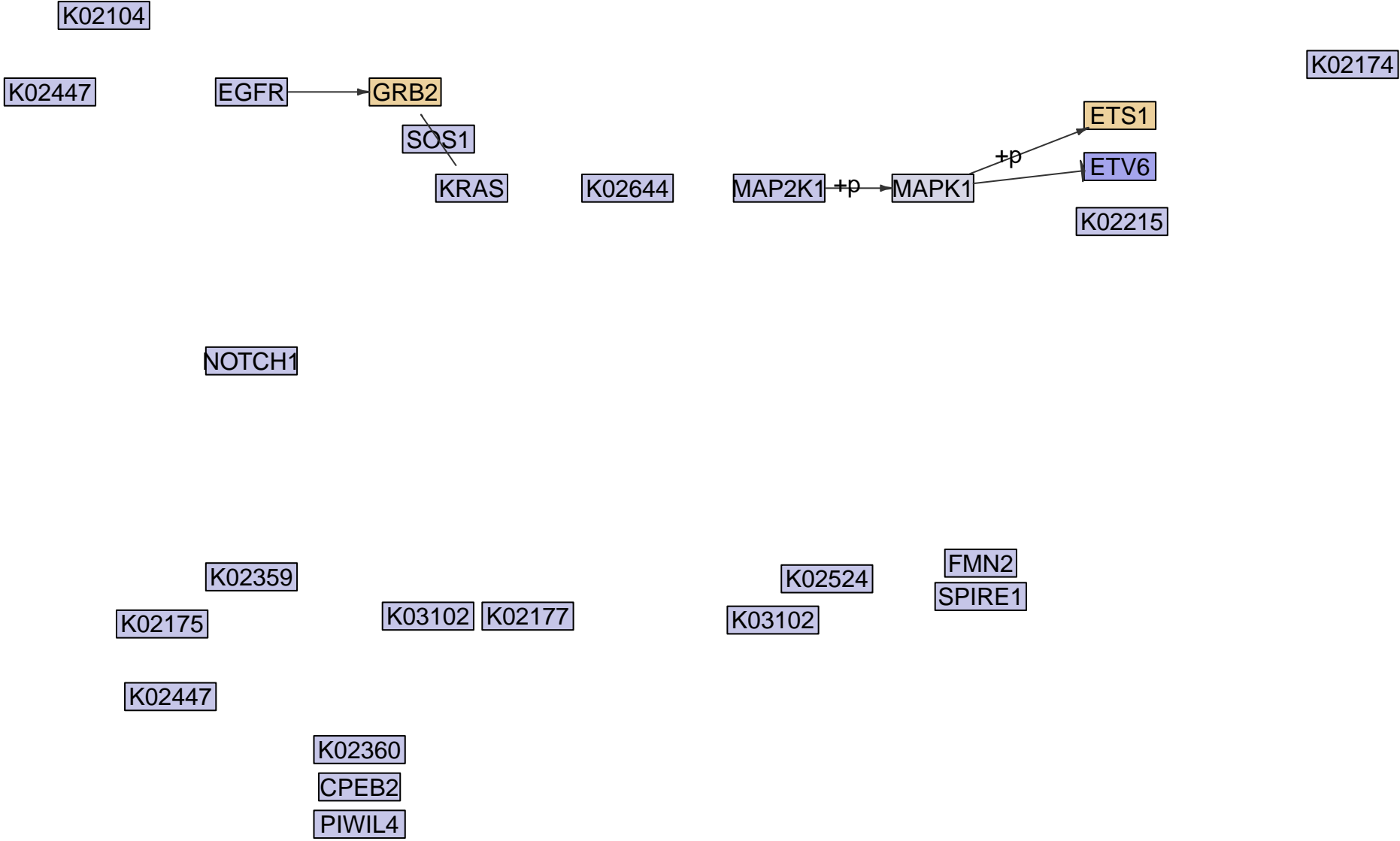
SPIRE1

K02447

K02360

CPEB2

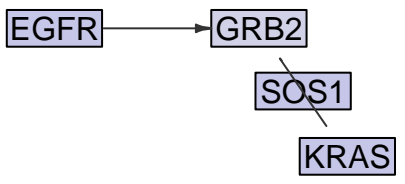
PIWIL4



Dorso-ventral axis  
formation  
MPI-163

K02104

K02447



K02644

MAP2K1

MAPK1

K02215

K02174

ETS1

ETV6

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

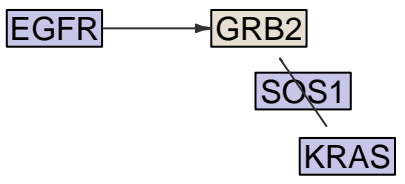
CPEB2

PIWIL4

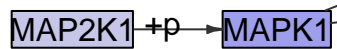
Dorso-ventral axis  
formation  
MPI-164

K02104

K02447



K02644



K02215

K02174

NOTCH1

K02359

K02175

K03102 K02177

K02524

K03102

FMN2  
SPIRE1

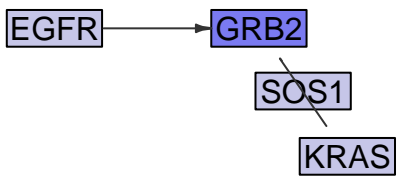
K02447

K02360  
CPEB2  
PIWIL4

Dorso-ventral axis  
formation  
MPI-166

K02104

K02447



K02644

MAP2K1 +p

MAPK1

+p

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2  
SPIRE1

K02447

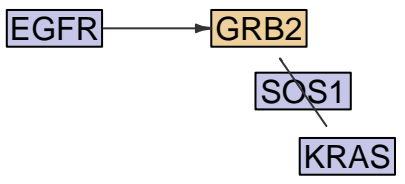
K02360  
CPEB2  
PIWIL4



Dorso-ventral axis  
formation  
MPI-167

K02104

K02447



K02644

MAP2K1

+p

MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K02447

K03102

K02177

K02360

CPEB2

PIWIL4

K02524

K03102

FMN2

SPIRE1

Dorso-ventral axis  
formation  
MPI-168

K02104

K02447

EGFR



GRB2

SOS1

KRAS

K02644

MAP2K1



MAPK1



ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-170

K02104

K02447

EGFR

GRB2

SOS1

KRAS

K02644

MAP2K1

MAPK1

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

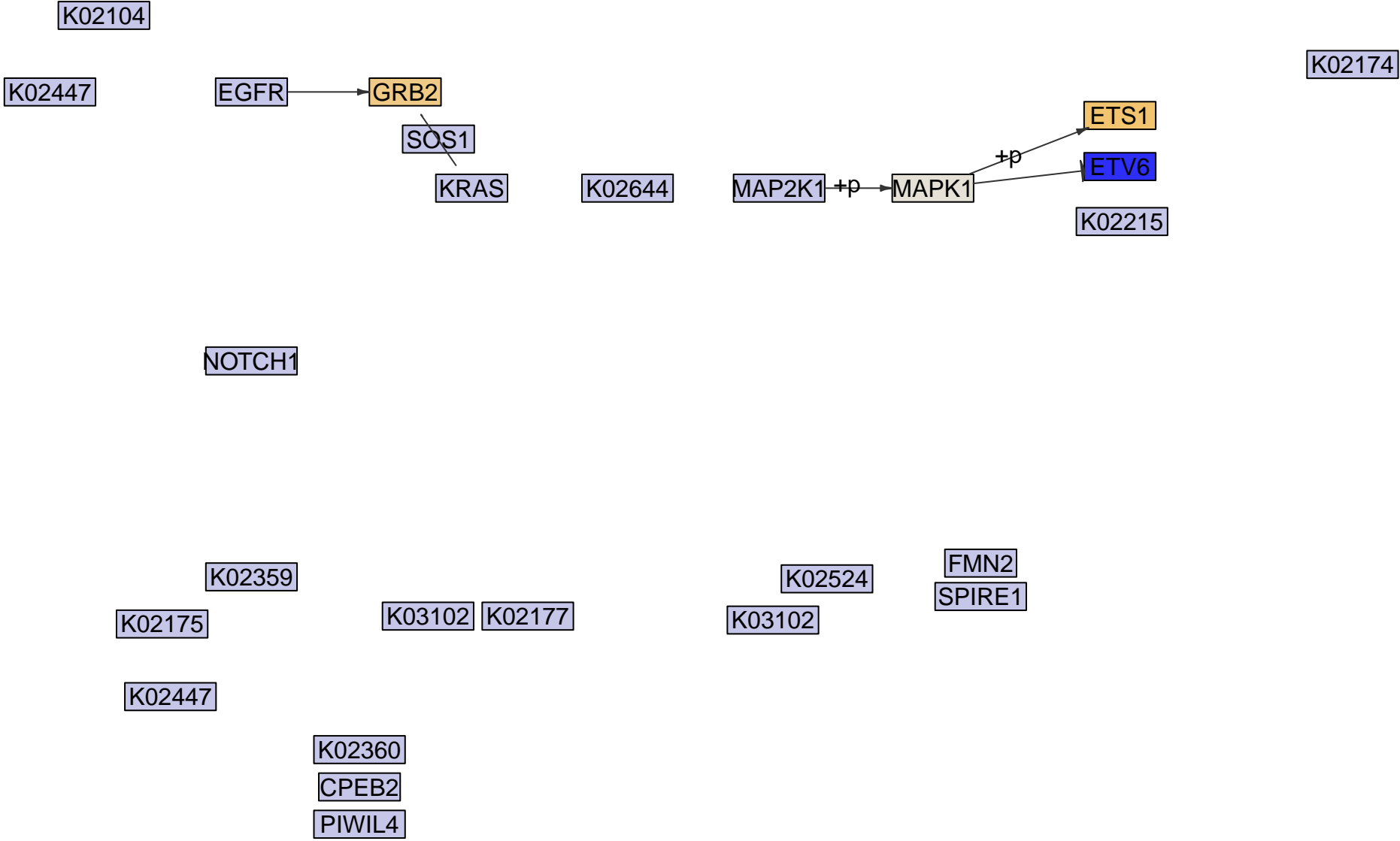
SPIRE1

K02447

K02360

CPEB2

PIWIL4



Dorso-ventral axis  
formation  
MPI-173

K02104

K02447

EGFR



GRB2

SOS1

KRAS

K02644

MAP2K1



MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

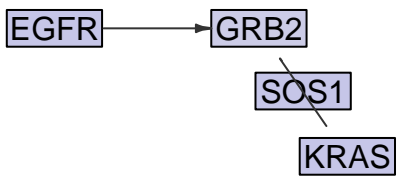
CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-174

K02104

K02447



K02644

MAP2K1

+p

MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-176

K02104

K02447

EGFR

GRB2

SOS1

KRAS

K02644

MAP2K1

+p

MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

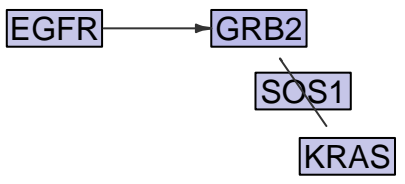
CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-177

K02104

K02447



K02644

MAP2K1

+p

MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-178

K02104

K02447

EGFR



GRB2

SOS1

KRAS

K02644

MAP2K1



MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

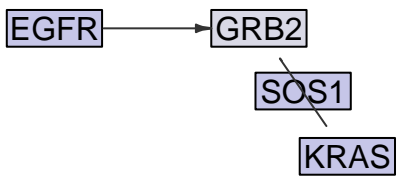
PIWIL4



Dorso-ventral axis  
formation  
MPI-179

K02104

K02447



K02644

MAP2K1

MAPK1

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2  
SPIRE1

K02447

K02360

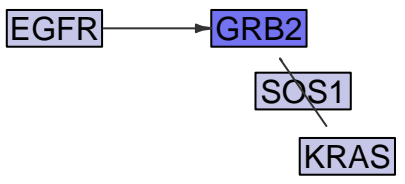
CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-180

K02104

K02447



K02644

MAP2K1 +p

MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-182

K02104

K02447

EGFR

GRB2

SOS1

KRAS

K02644

MAP2K1

MAPK1

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

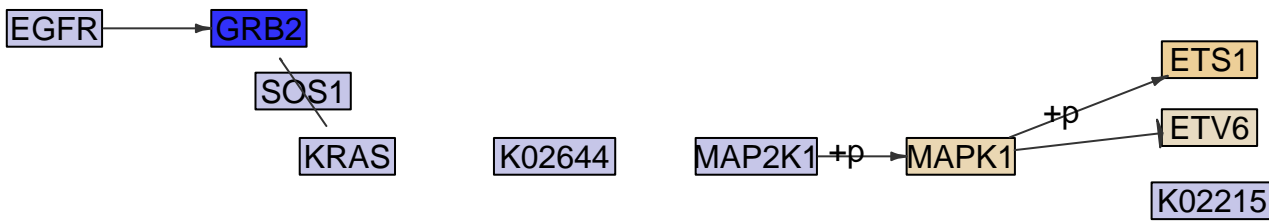
SPIRE1

K02447

K02360

CPEB2

PIWIL4



Dorso-ventral axis  
formation  
MPI-183

K02104

K02447

EGFR



GRB2

SOS1

KRAS

K02644

MAP2K1



MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

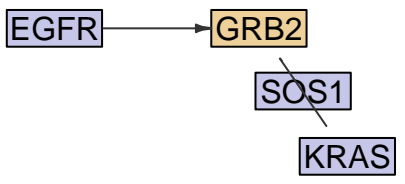
CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-184

K02104

K02447



K02644



K02174

K02215

NOTCH1

K02359

K02175

K03102 K02177

K02524

K03102

FMN2  
SPIRE1

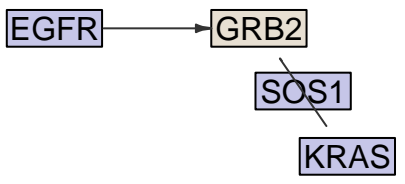
K02447

K02360  
CPEB2  
PIWIL4

Dorso-ventral axis  
formation  
MPI-185

K02104

K02447



K02644

MAP2K1

+p

MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-186

K02104

K02447

EGFR

GRB2

SOS1

KRAS

K02644

MAP2K1

MAPK1

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

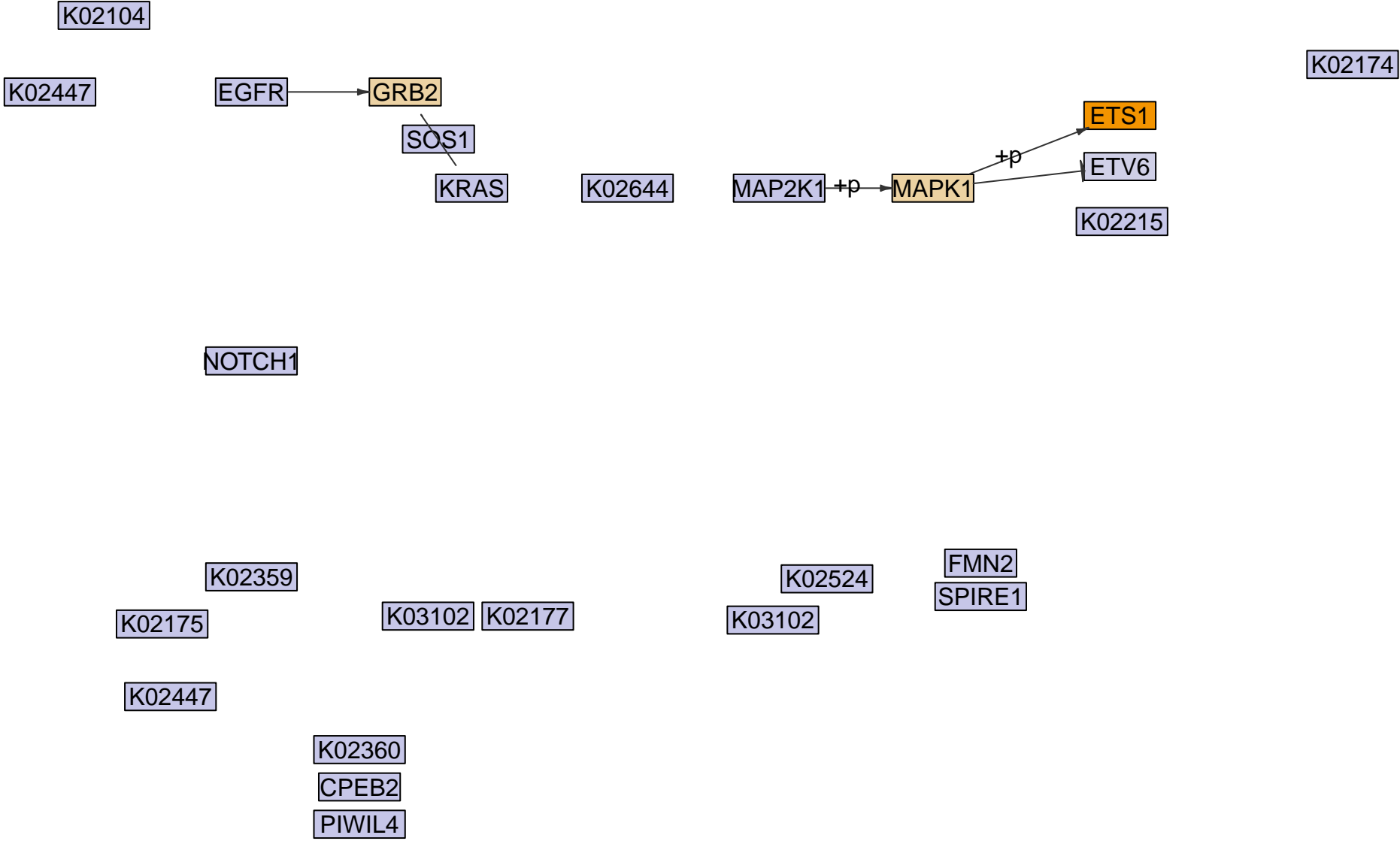
SPIRE1

K02447

K02360

CPEB2

PIWIL4



Dorso-ventral axis  
formation  
MPI-188

K02104

K02447

EGFR



GRB2

SOS1

KRAS

K02644

MAP2K1



MAPK1



ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

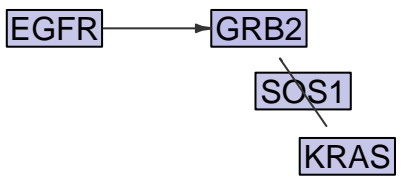
PIWIL4



Dorso-ventral axis  
formation  
MPI-189

K02104

K02447



K02644

MAP2K1

+p

MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

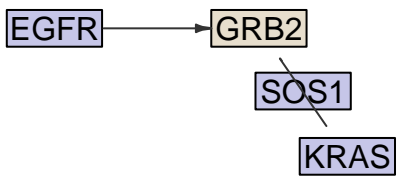
CPEB2

PIWIL4

Dorso-ventral axis formation  
MPI-190

K02104

K02447



K02644

MAP2K1

+p

MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-191

K02104

K02447

EGFR



GRB2

SOS1

KRAS

K02644

MAP2K1



MAPK1



ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-192

K02104

K02447

EGFR

GRB2

SOS1

KRAS

K02644

MAP2K1

MAPK1

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

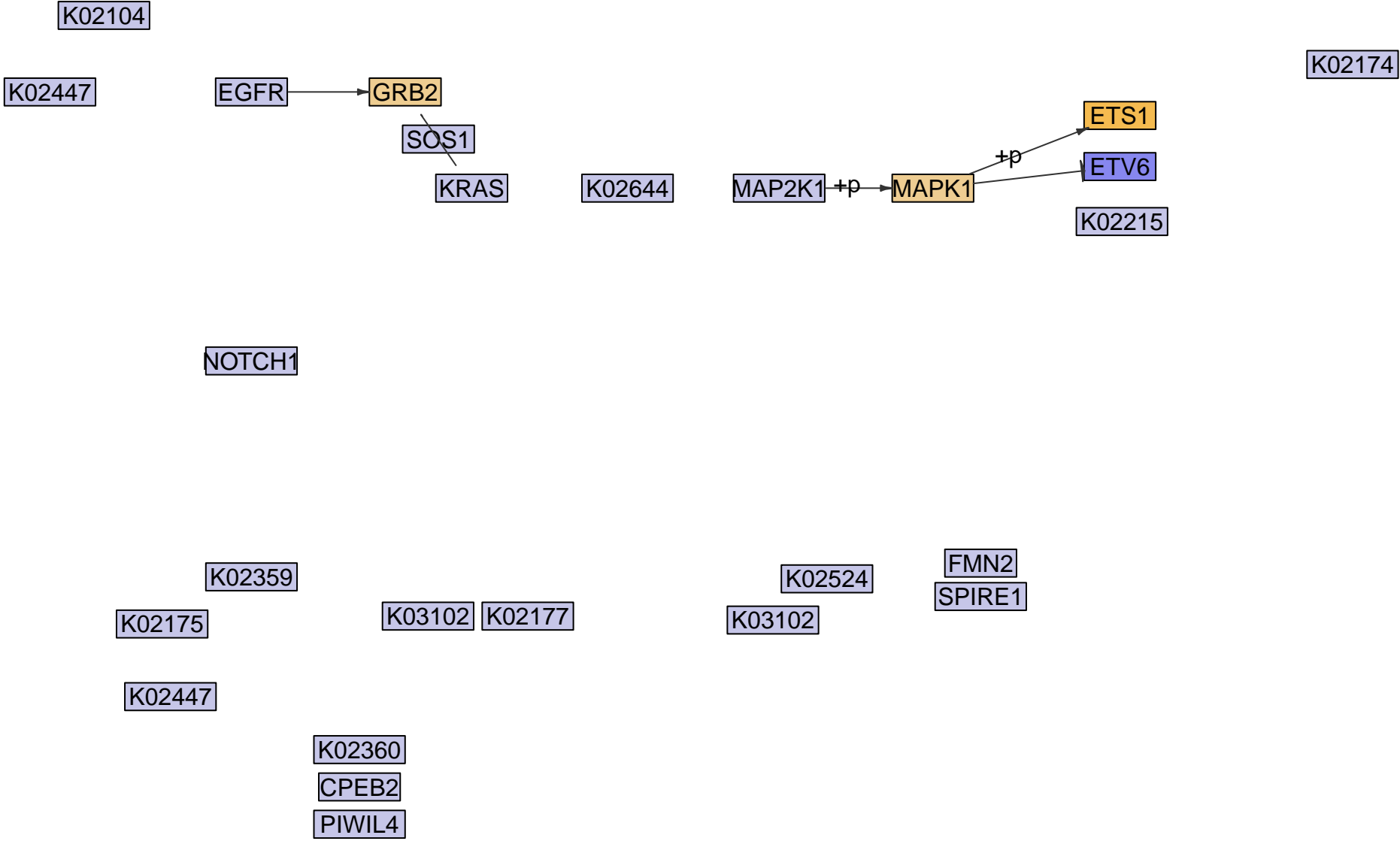
SPIRE1

K02447

K02360

CPEB2

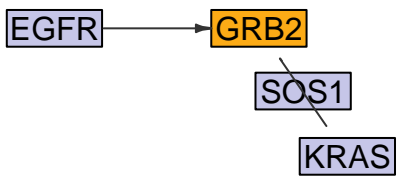
PIWIL4



Dorso-ventral axis formation  
MPI-194

K02104

K02447



K02644

MAP2K1

MAPK1

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

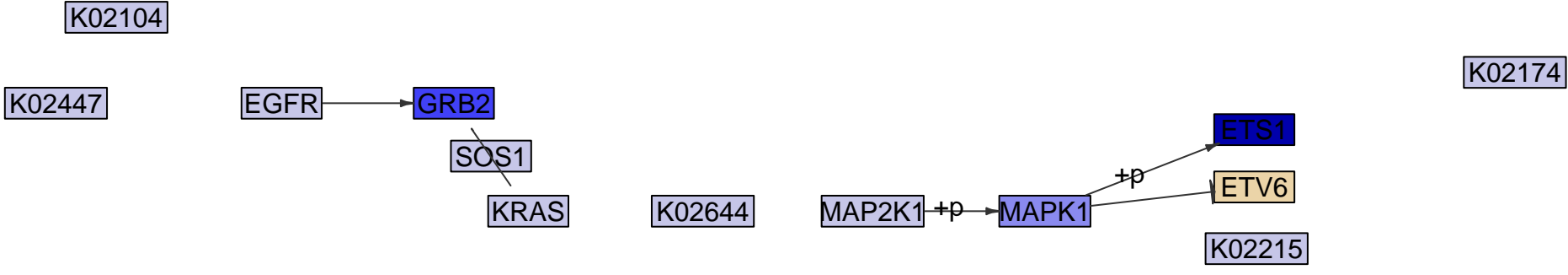
K02447

K02360

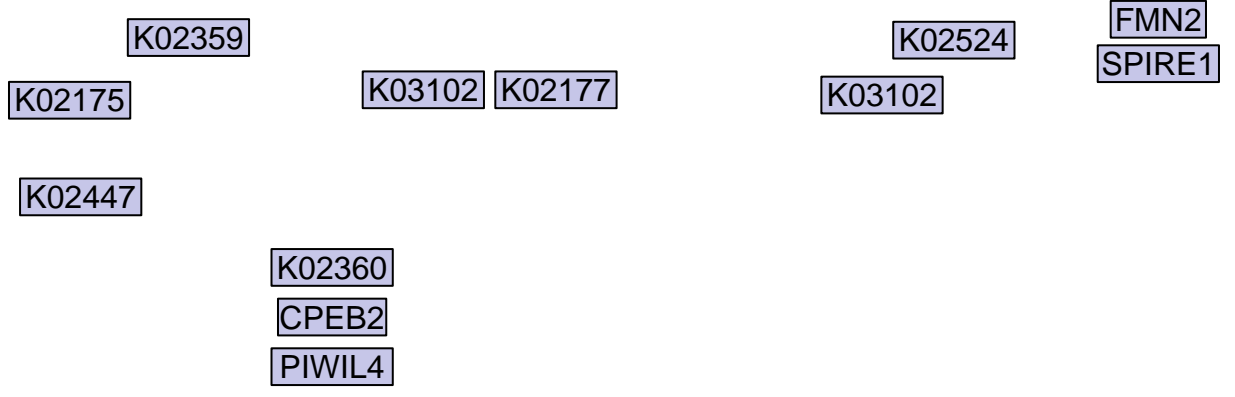
CPEB2

PIWIL4

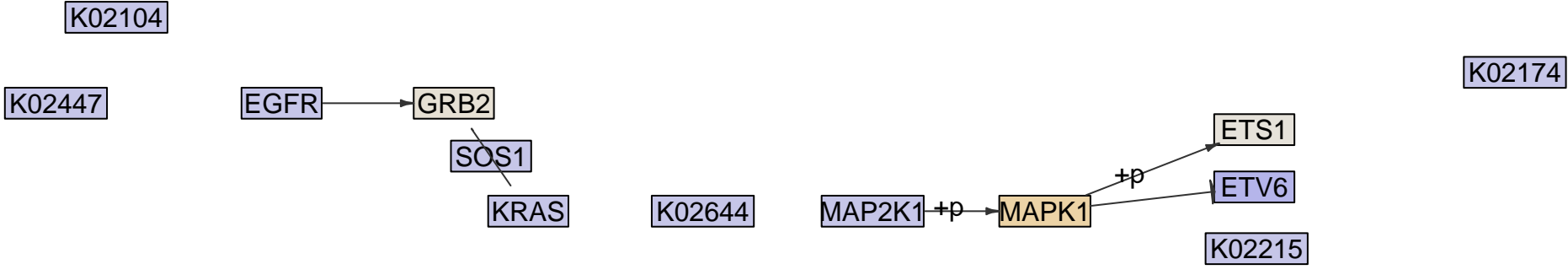
Dorso-ventral axis  
formation  
MPI-195



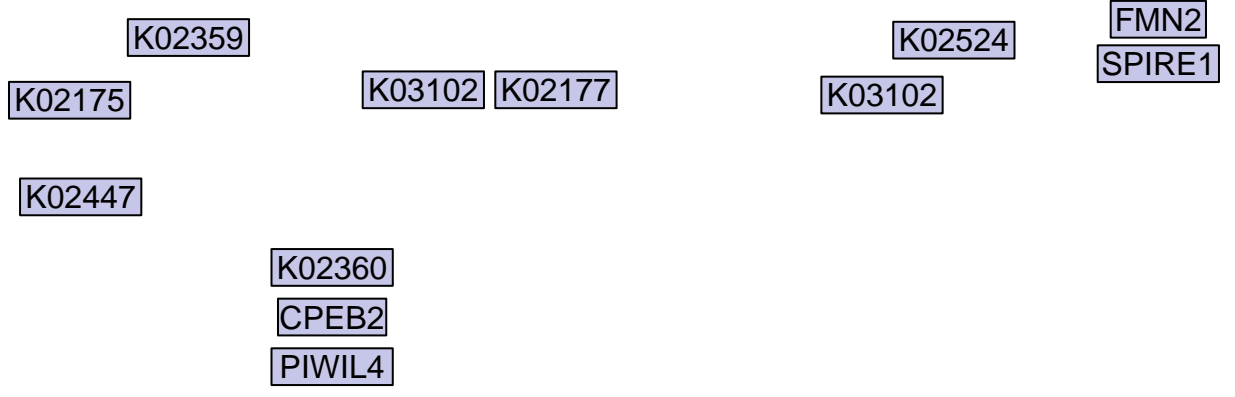
NOTCH1



Dorso-ventral axis  
formation  
MPI-196



NOTCH1



Dorso-ventral axis  
formation  
MPI-198

K02104

K02447

EGFR



GRB2

SOS1

KRAS

K02644

MAP2K1



MAPK1



ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

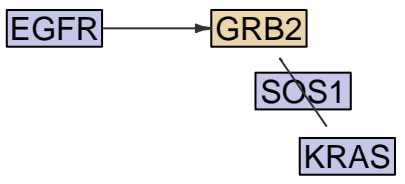
PIWIL4



Dorso-ventral axis  
formation  
MPI-199

K02104

K02447



K02644

MAP2K1

+p

MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-200

K02104

K02447

EGFR



GRB2

SOS1

KRAS

K02644

MAP2K1



MAPK1



ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

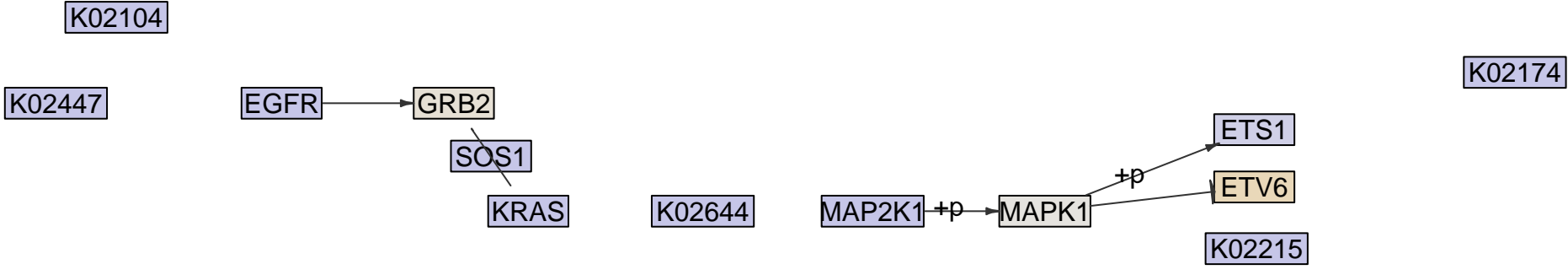
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K02360

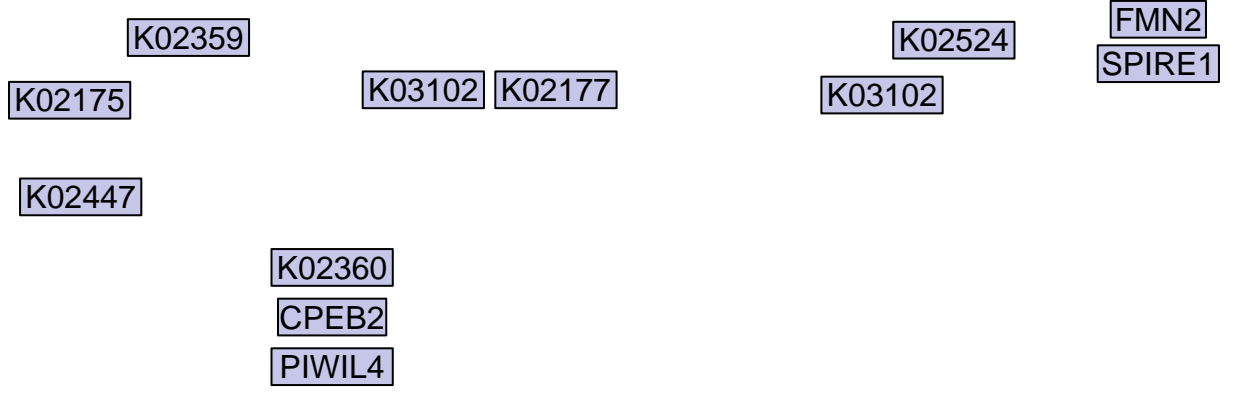
CPEB2

PIWIL4

Dorso-ventral axis formation  
MPI-201



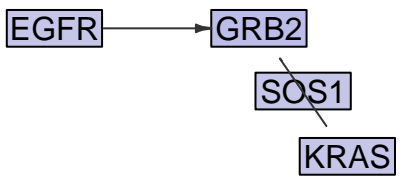
NOTCH1



Dorso-ventral axis  
formation  
MPI-202

K02104

K02447



K02644

MAP2K1 +p

MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

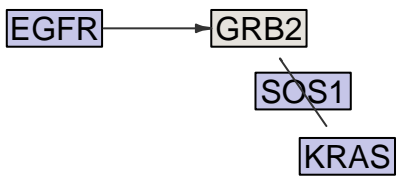
CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-203

K02104

K02447



K02644

MAP2K1

+p

MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

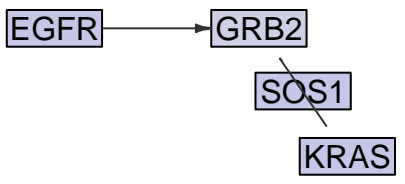
CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-204

K02104

K02447



K02644

MAP2K1

+p

MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

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K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

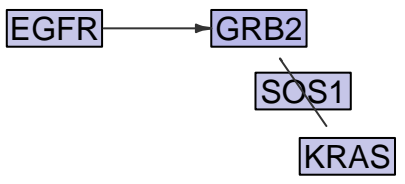
CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-205

K02104

K02447



K02644

MAP2K1

MAPK1

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-206

K02104

K02447

EGFR

GRB2

SOS1

KRAS

K02644

MAP2K1

MAPK1

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

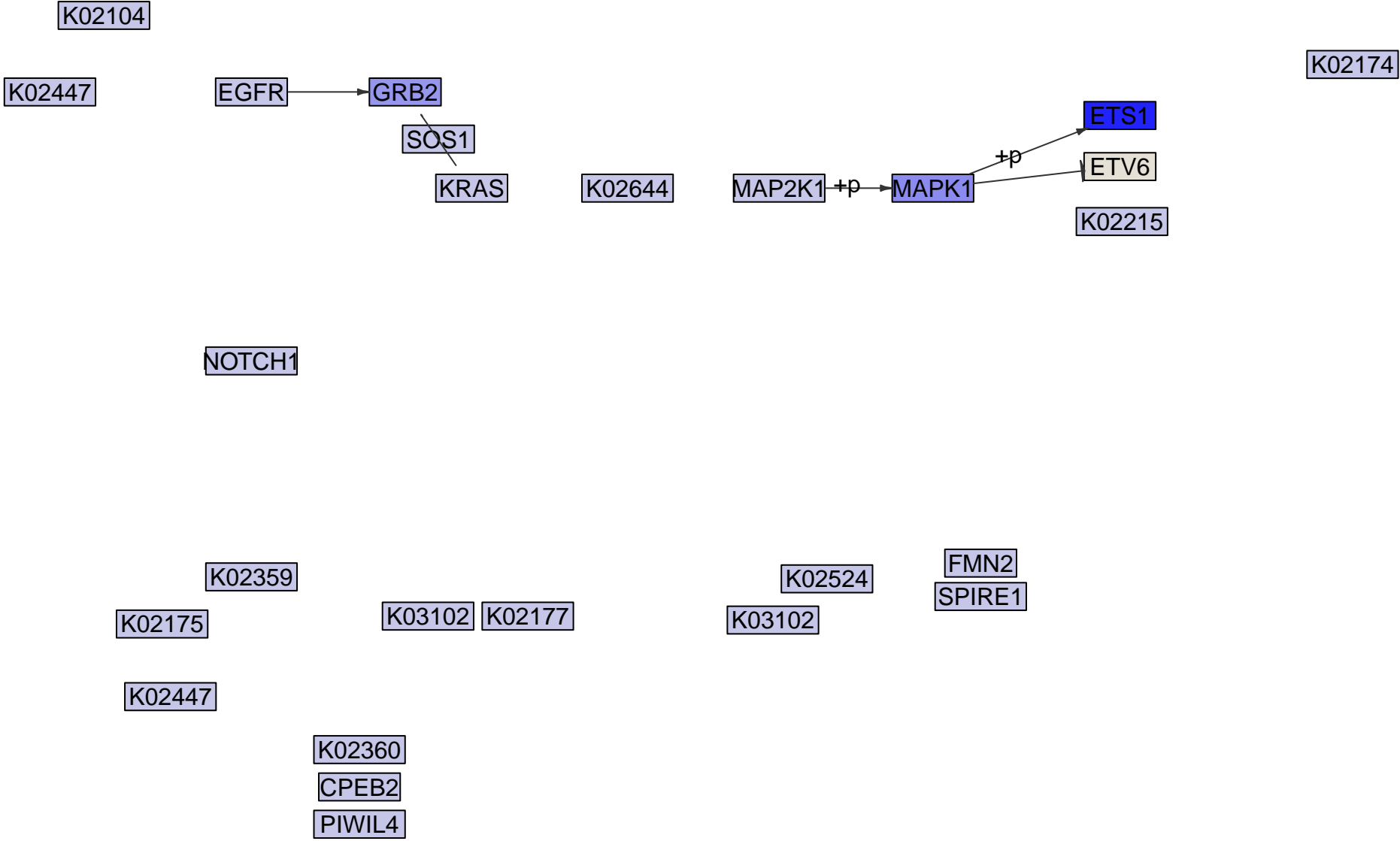
SPIRE1

K02447

K02360

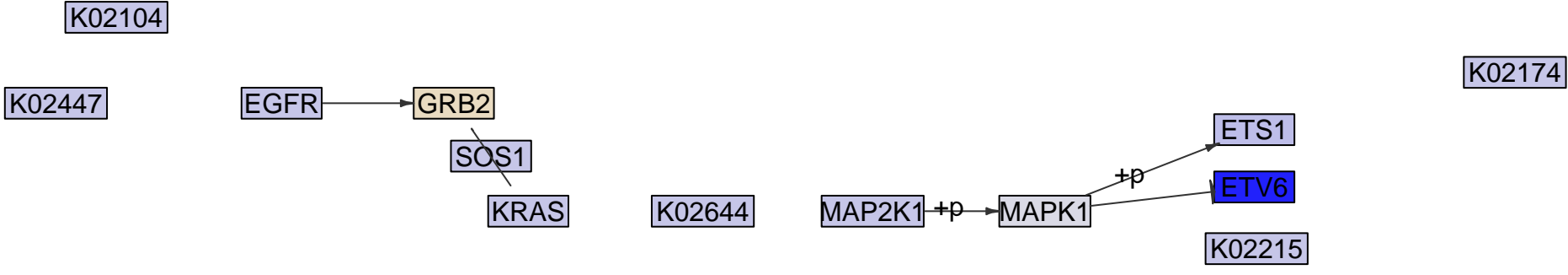
CPEB2

PIWIL4

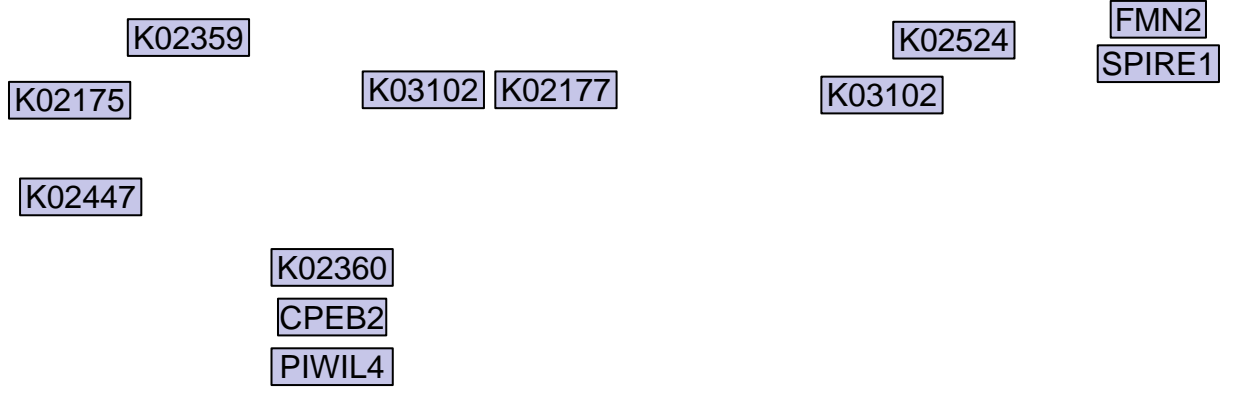




Dorso-ventral axis formation  
MPI-207



NOTCH1



Dorso-ventral axis  
formation  
MPI-208

K02104

K02447

EGFR



GRB2

SOS1

KRAS

K02644

MAP2K1



MAPK1



ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

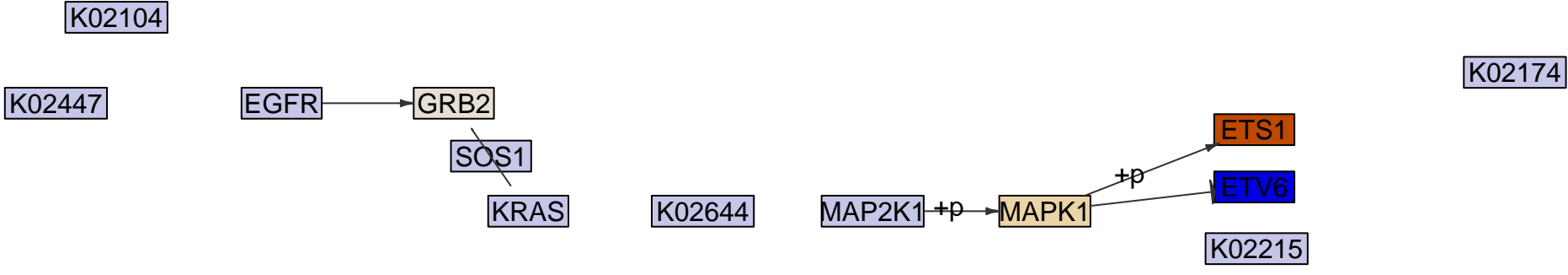
K02447

K02360

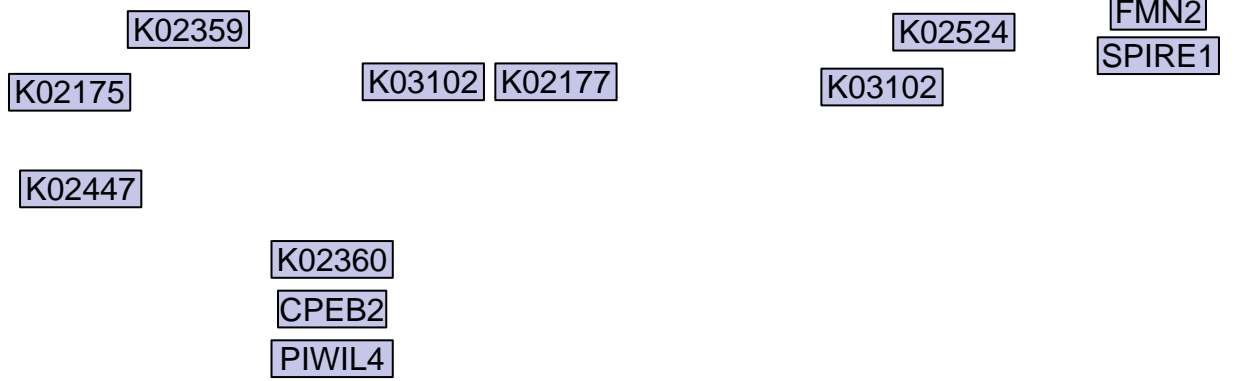
CPEB2

PIWIL4

Dorso-ventral axis formation  
MPI-209



NOTCH1



Dorso-ventral axis  
formation  
MPI-210

K02104

K02447

EGFR

GRB2

SOS1

KRAS

K02644

MAP2K1

MAPK1

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

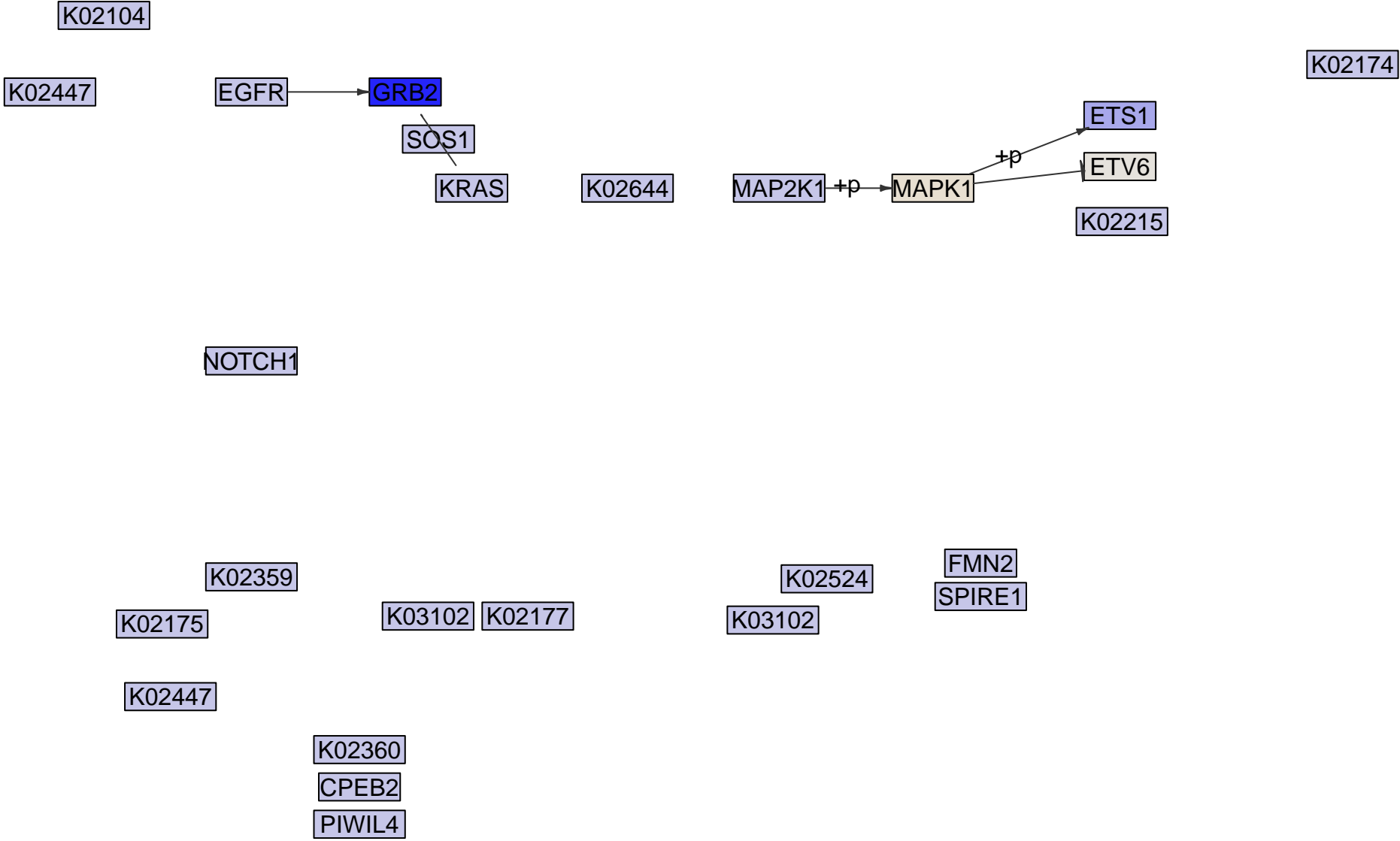
SPIRE1

K02447

K02360

CPEB2

PIWIL4



Dorso-ventral axis  
formation  
MPI-212

K02104

K02447

EGFR



GRB2

SOS1

KRAS

K02644

MAP2K1



MAPK1



ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

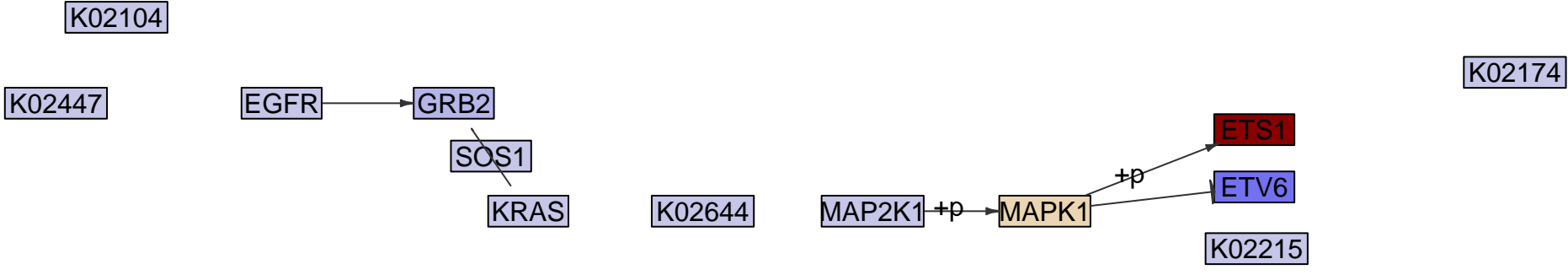
K02447

K02360

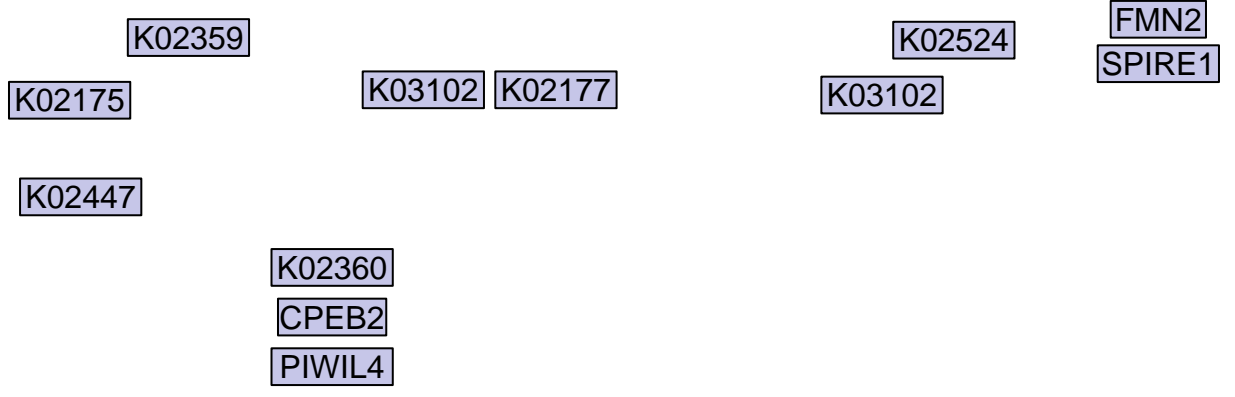
CPEB2

PIWIL4

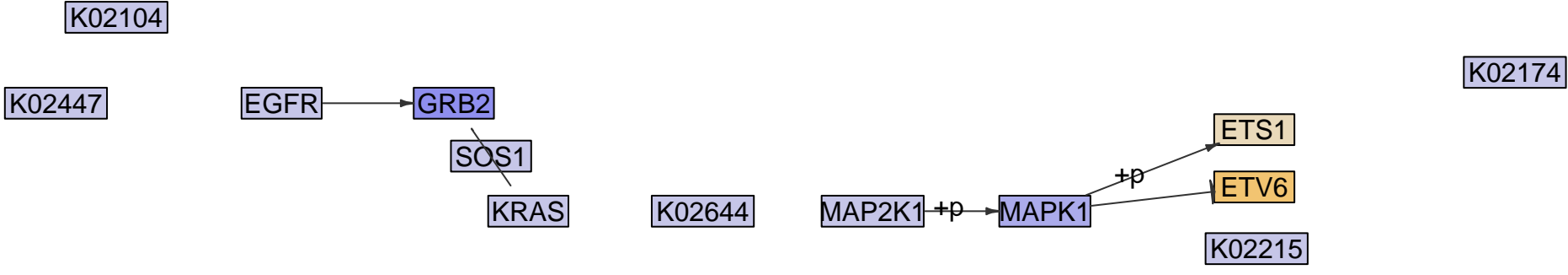
Dorso-ventral axis formation  
MPI-213



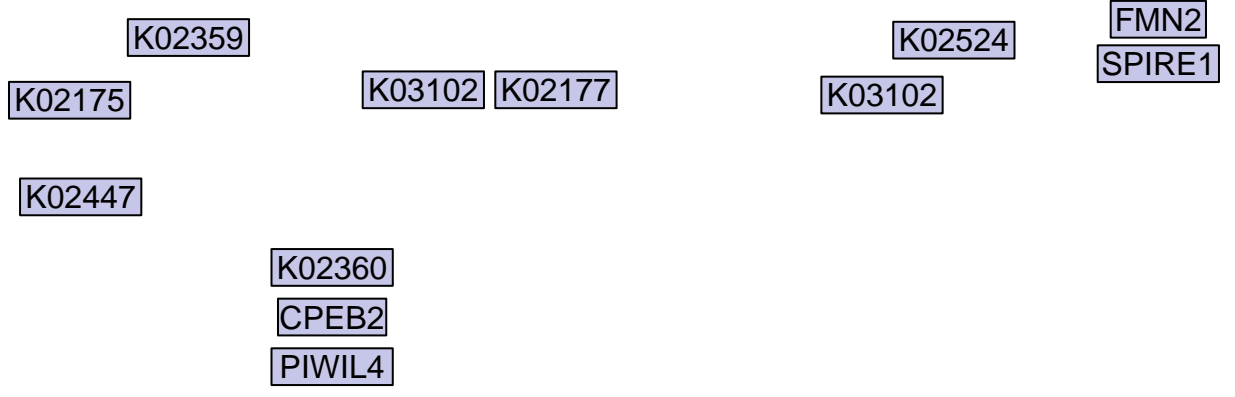
NOTCH1



Dorso-ventral axis formation  
MPI-215



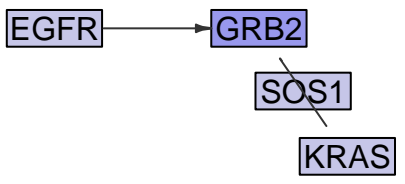
NOTCH1



Dorso-ventral axis  
formation  
MPI-219

K02104

K02447



K02644



K02174

NOTCH1

K02359

K02175

K03102 K02177

K02524

K03102

FMN2  
SPIRE1

K02447

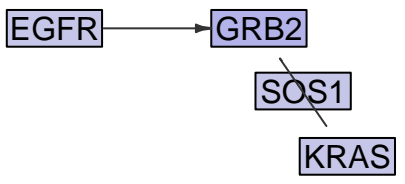
K02360  
CPEB2  
PIWIL4



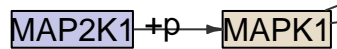
Dorso-ventral axis  
formation  
MPI-221

K02104

K02447



K02644



K02215

K02174

NOTCH1

K02359

K02175

K03102 K02177

K02524

K03102

FMN2  
SPIRE1

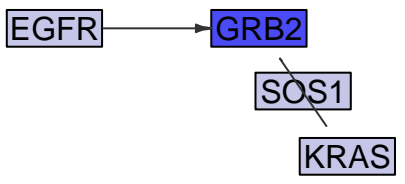
K02447

K02360  
CPEB2  
PIWIL4

Dorso-ventral axis  
formation  
MPI-223a

K02104

K02447



K02644

MAP2K1 +p

MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

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K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

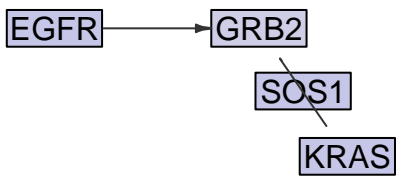
CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-224

K02104

K02447



K02644

MAP2K1

MAPK1

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-226

K02104

K02447

EGFR

GRB2

SOS1

KRAS

K02644

MAP2K1

+p

MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-227

K02104

K02447

EGFR

GRB2

SOS1

KRAS

K02644

MAP2K1

+p

MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-228

K02104

K02447

EGFR



GRB2

SOS1

KRAS

K02644

MAP2K1



MAPK1



ETS1

ETV6

K02215

K02174

NOTCH1

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K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

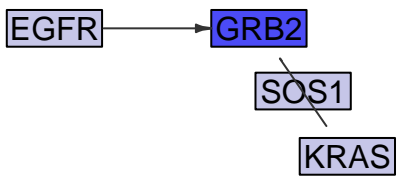
CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-229

K02104

K02447



K02644

MAP2K1

+p

MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

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K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

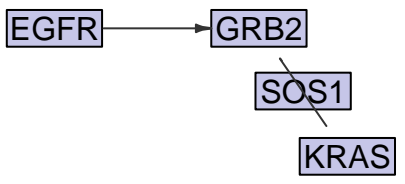
CPEB2

PIWIL4

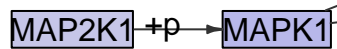
Dorso-ventral axis  
formation  
MPI-230

K02104

K02447



K02644



+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

PIWIL4



Dorso-ventral axis  
formation  
MPI-231

K02104

K02447

EGFR



GRB2

SOS1

KRAS

K02644

MAP2K1



MAPK1



ETS1

ETV6

K02215

K02174

NOTCH1

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K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

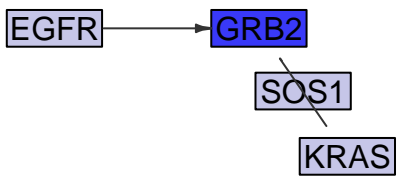
CPEB2

PIWIL4

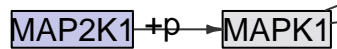
Dorso-ventral axis  
formation  
MPI-232

K02104

K02447



K02644



K02215

K02174

NOTCH1

K02359

K02175

K03102 K02177

K02524

K03102

FMN2  
SPIRE1

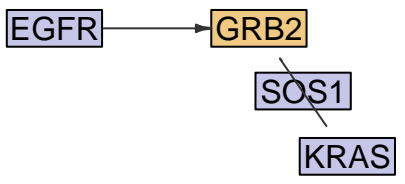
K02447

K02360  
CPEB2  
PIWIL4

Dorso-ventral axis  
formation  
MPI-233

K02104

K02447



K02644

MAP2K1

+p

MAPK1

+p

K02215

K02174

ETS1

ETV6

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-234

K02104

K02447

EGFR



GRB2

~~SOS1~~

KRAS

K02644

MAP2K1



MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

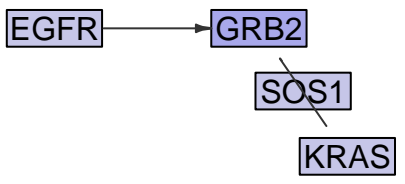
CPEB2

PIWIL4

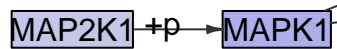
Dorso-ventral axis  
formation  
MPI-235

K02104

K02447



K02644



K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2  
SPIRE1

K02447

K02360

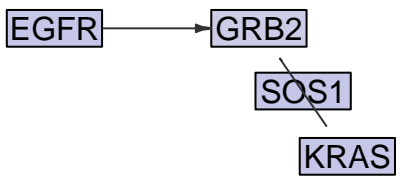
CPEB2

PIWIL4

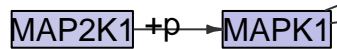
Dorso-ventral axis  
formation  
MPI-236

K02104

K02447



K02644



+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

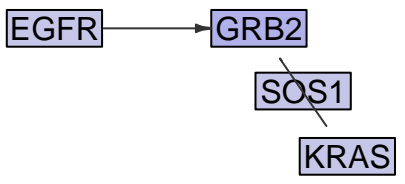
CPEB2

PIWIL4

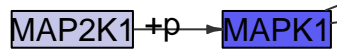
Dorso-ventral axis  
formation  
MPI-237

K02104

K02447



K02644



K02215

K02174

NOTCH1

K02359

K02175

K03102 K02177

K02524

K03102

FMN2  
SPIRE1

K02447

K02360  
CPEB2  
PIWIL4

Dorso-ventral axis  
formation  
MPI-239

K02104

K02447

EGFR

GRB2

SOS1

KRAS

K02644

MAP2K1

+p

MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

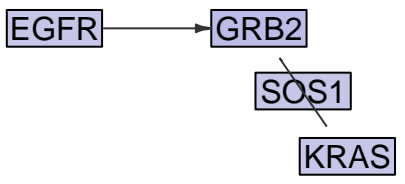
PIWIL4



Dorso-ventral axis  
formation  
MPI-241

K02104

K02447



K02644

MAP2K1

+p

MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

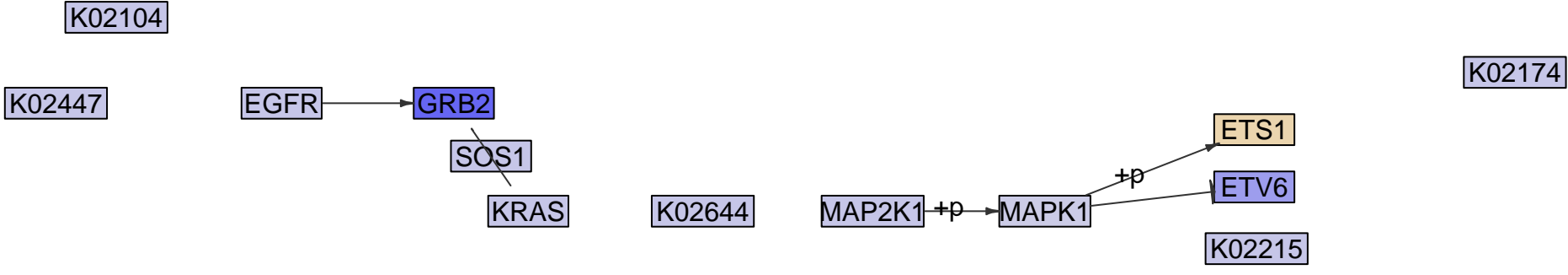
K02447

K02360

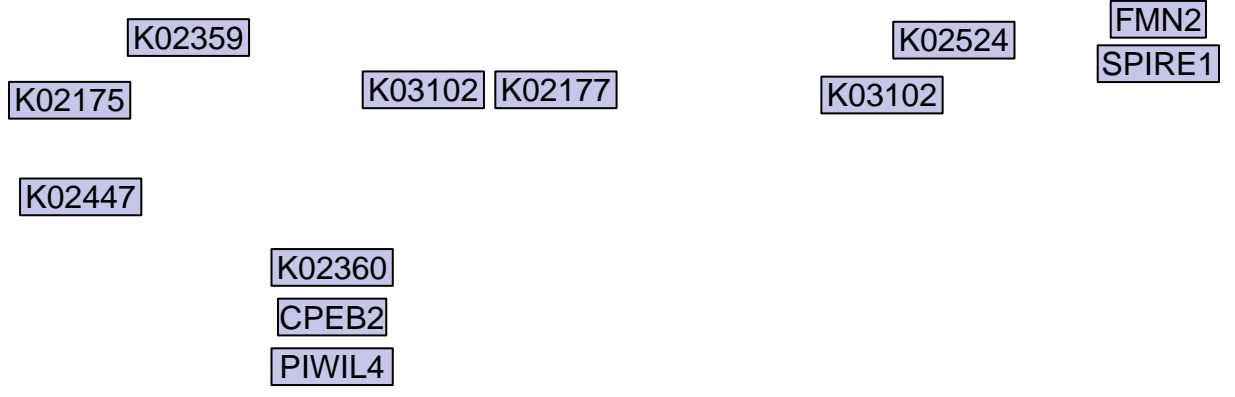
CPEB2

PIWIL4

Dorso-ventral axis formation  
MPI-243



NOTCH1



Dorso-ventral axis  
formation  
MPI-244

K02104

K02447

EGFR



GRB2

SOS1

KRAS

K02644

MAP2K1



MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-246

K02104

K02447

EGFR

GRB2

SOS1

KRAS

K02644

MAP2K1

MAPK1

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

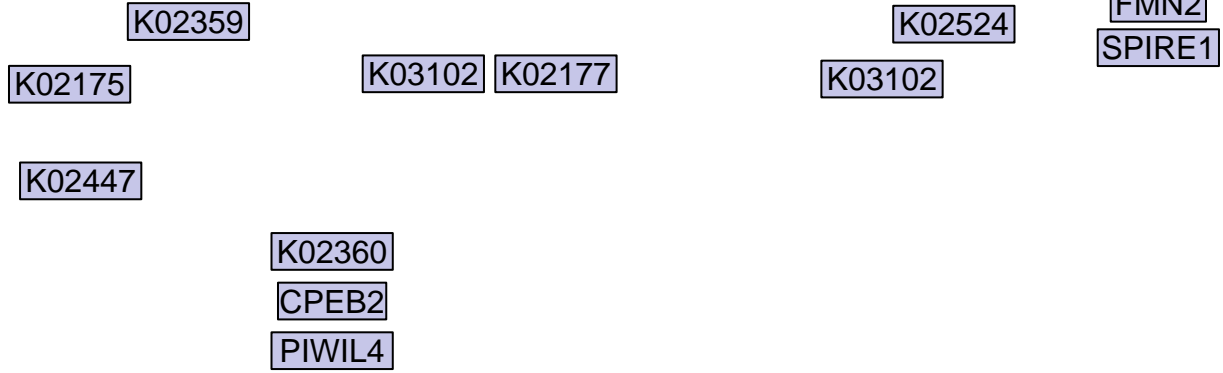
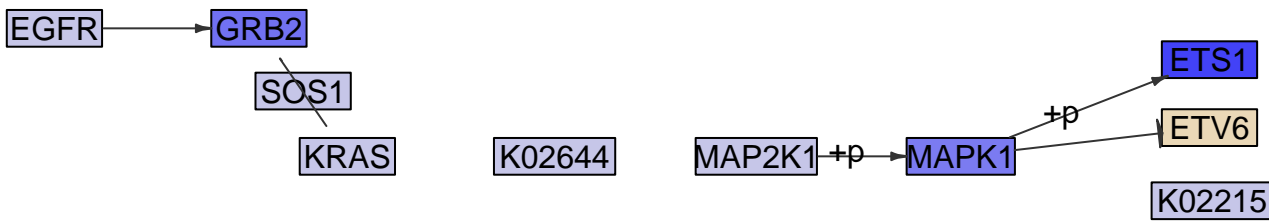
SPIRE1

K02447

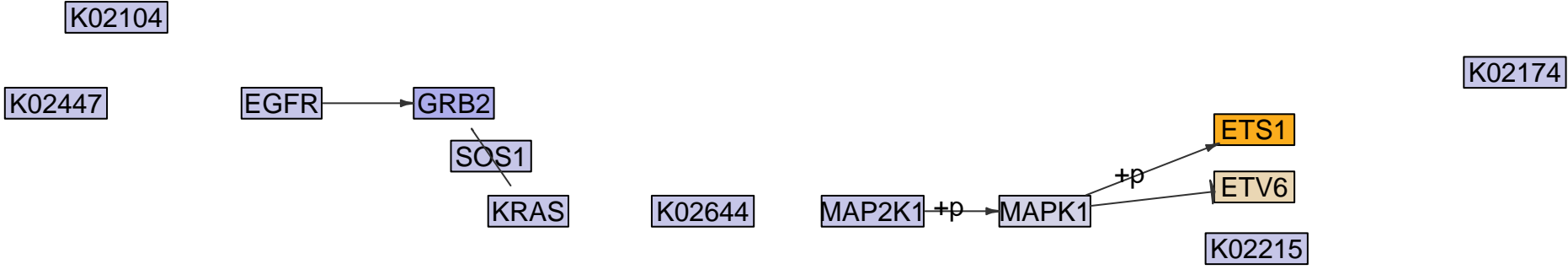
K02360

CPEB2

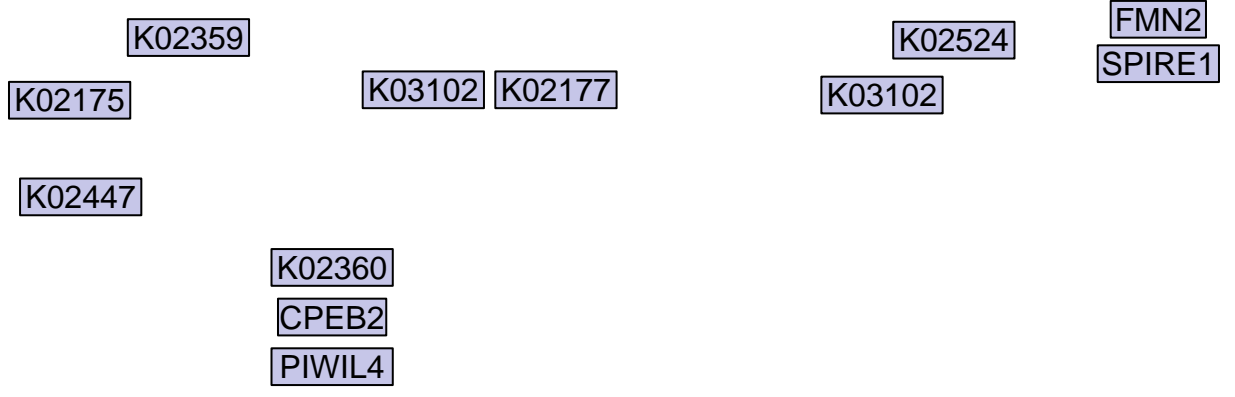
PIWIL4



Dorso-ventral axis formation  
MPI-247



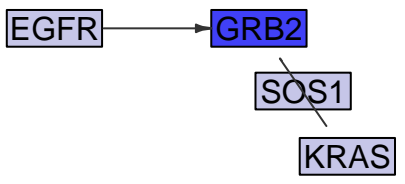
NOTCH1



Dorso-ventral axis  
formation  
MPI-251

K02104

K02447



K02644

MAP2K1

+p

MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

K02447

K02360

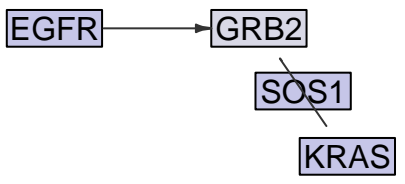
CPEB2

PIWIL4

Dorso-ventral axis  
formation  
MPI-255

K02104

K02447



K02644

MAP2K1

+p

MAPK1

+p

ETS1

ETV6

K02215

K02174

NOTCH1

K02359

K02175

K03102

K02177

K02524

K03102

FMN2

SPIRE1

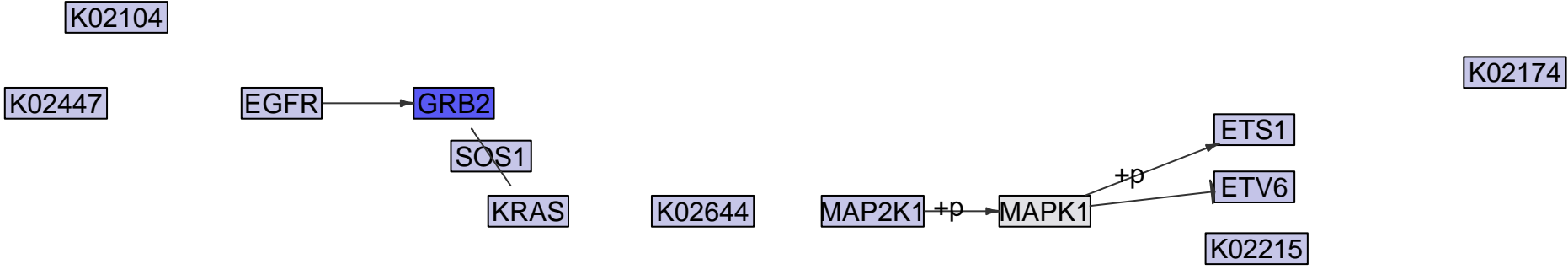
K02447

K02360

CPEB2

PIWIL4

Dorso-ventral axis formation  
MPI-223b



NOTCH1

