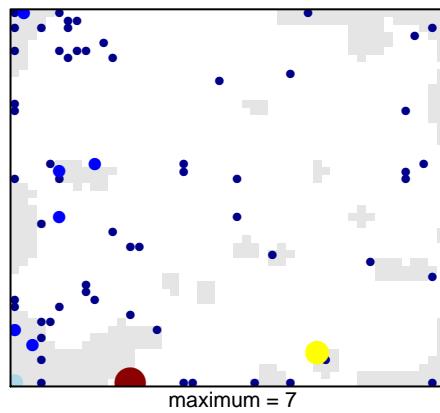
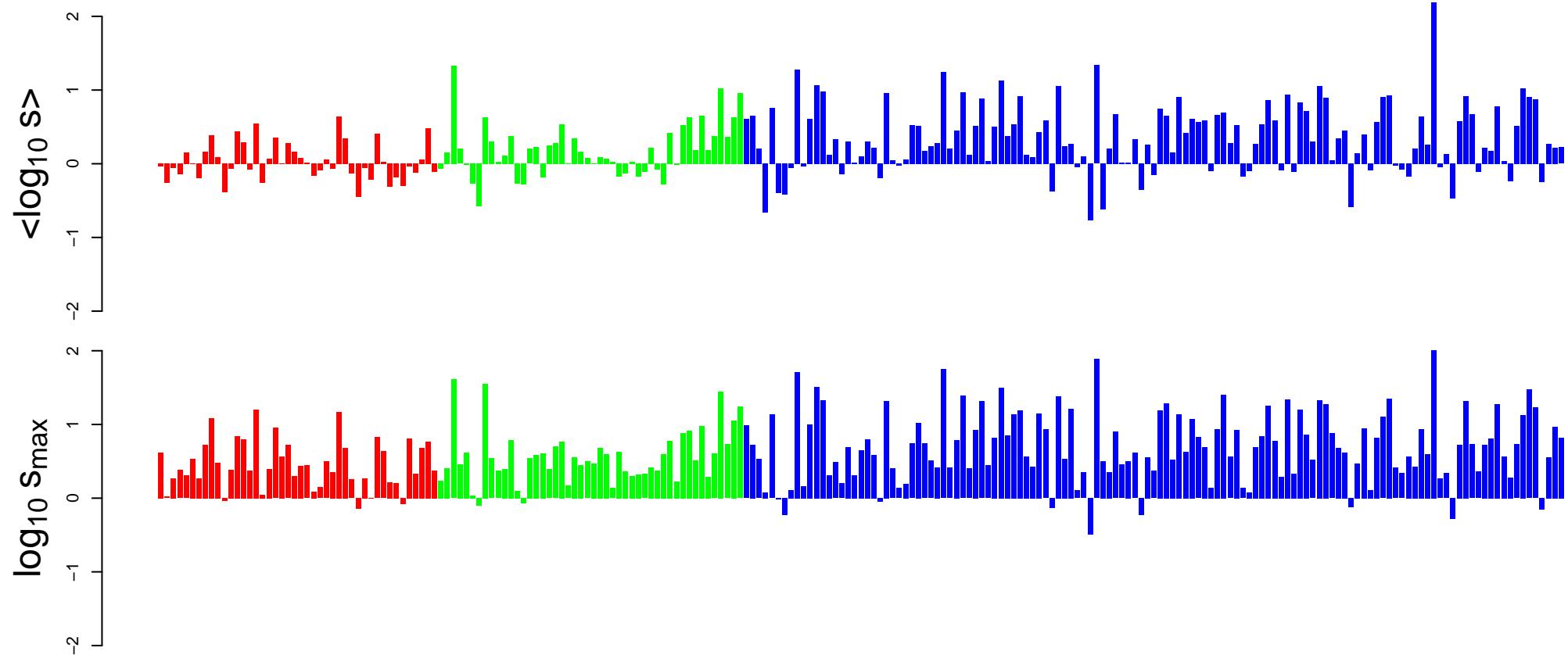
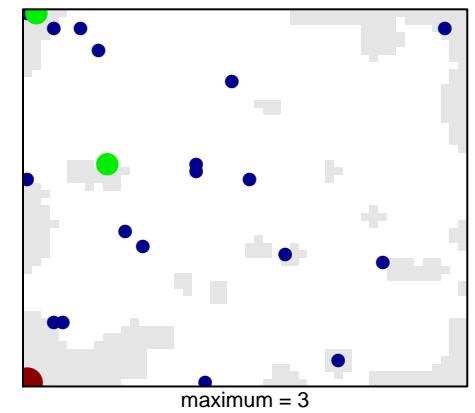


NOD-like receptor signaling pathway

all genes

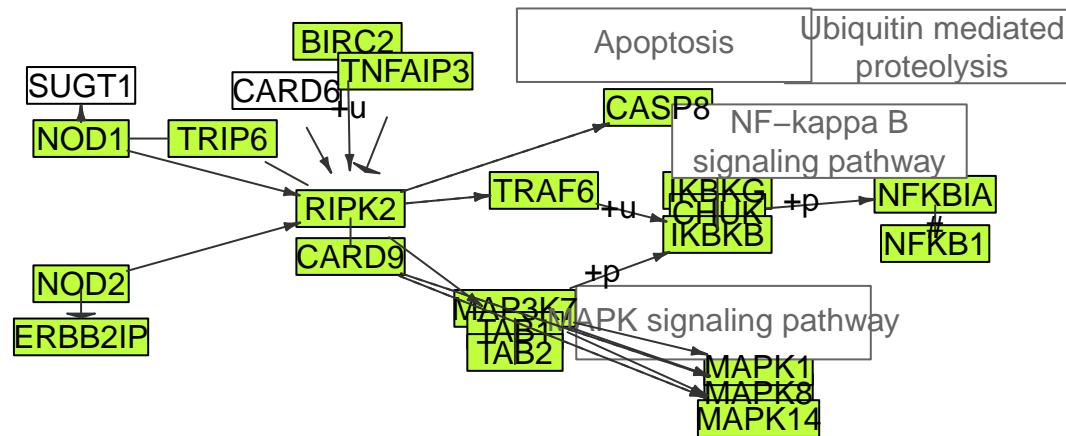


sink node genes



NOD-like receptor
signaling pathway
(genes with data)

Peptidoglycan
biosynthesis



K08645...

K11031
K10948

NLRP3YCARCASP1
CASP5

PYDC1 MEFV STPIP1
NLRP3YCARCASP1
CARD8CASP1

SUGT1 SP90AA1

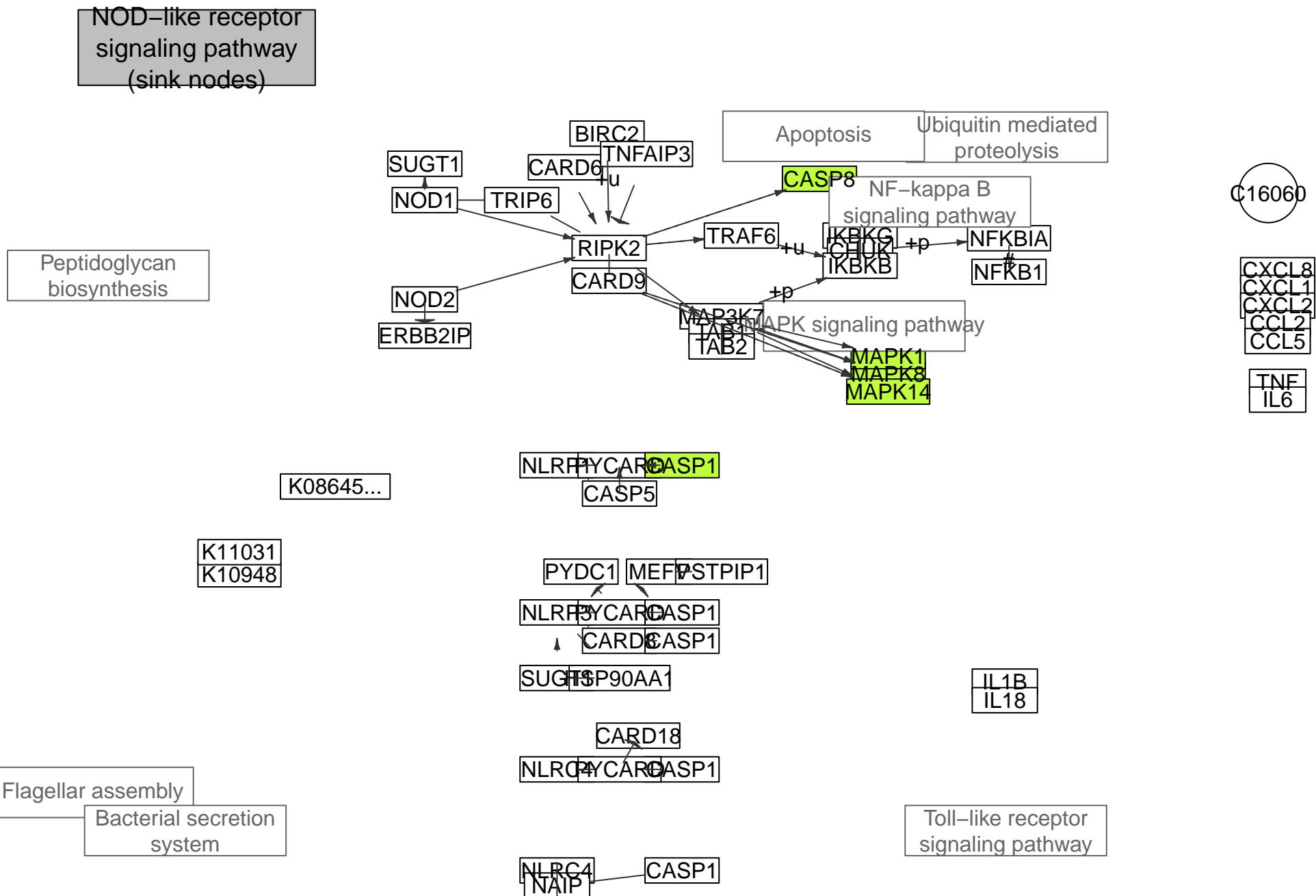
IL1B
IL18

CARD18
NLRP3YCARCASP1

Flagellar assembly
Bacterial secretion system

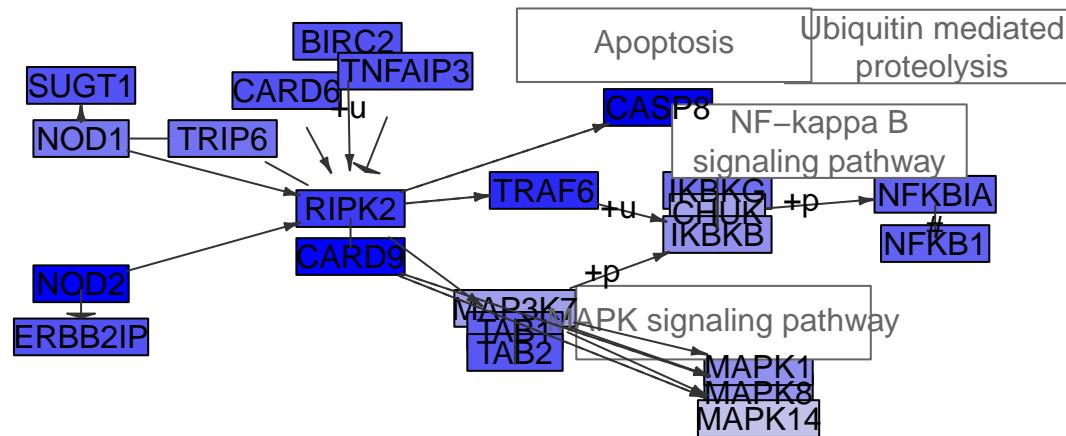
Toll-like receptor
signaling pathway

NLRP4 NAIP
CASP1



NOD-like receptor
signaling pathway
MPI-001

Peptidoglycan
biosynthesis



C16060
CXCL8
CXCL1
CXCL2
CCL2
CCL5
TNF
IL6

K08645...

NLRPFYCARDASP1
CASP5

K11031
K10948

PYDC1 MEFV STPIP1
NLRPFYCARDASP1
CARD8ASP1

Flagellar assembly
Bacterial secretion system

IL1B
IL18

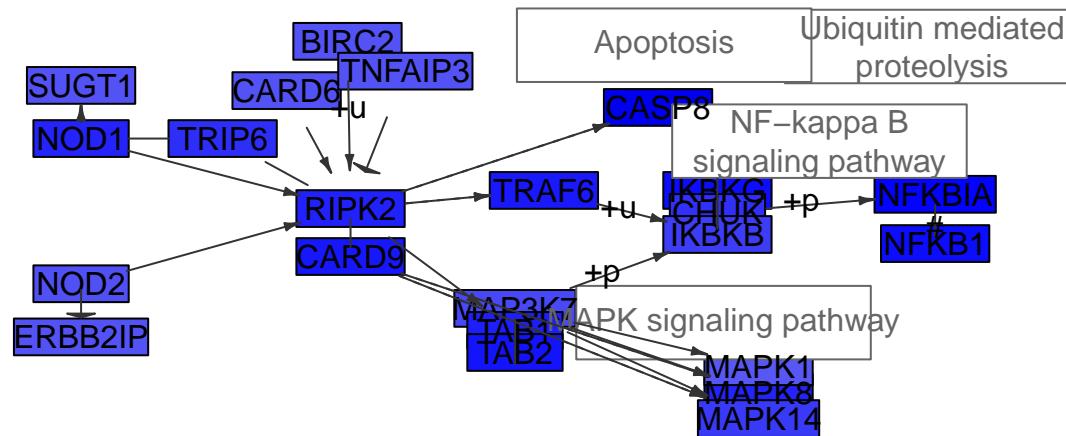
SUGT1SP90AA1
CARD18
NLRPFYCARDASP1

Toll-like receptor
signaling pathway

NLRPFYNAIP
CASP1

NOD-like receptor
signaling pathway
MPI-002

Peptidoglycan
biosynthesis



C16060

CXCL8
CXCL1
CXCL2
CCL2
CCL5
TNF
IL6

K08645...

NLRP3YCARDASP1
CASP5

K11031
K10948

PYDC1 MEFV STPIP1
NLRP3YCARDASP1
CARD8CASP1

Flagellar assembly
Bacterial secretion system

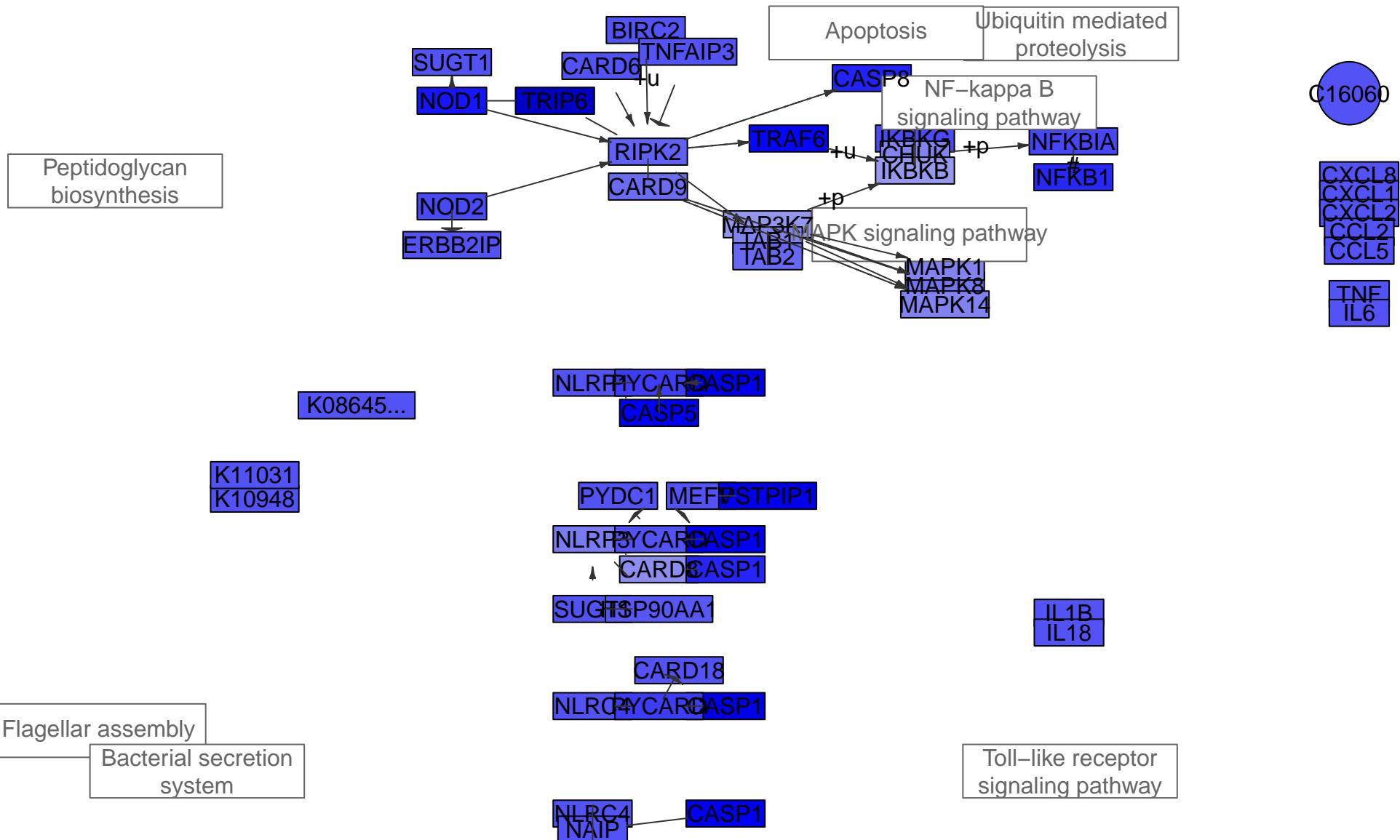
IL1B
IL18

SUGT1SP90AA1
CARD18
NLRP4YCARDASP1

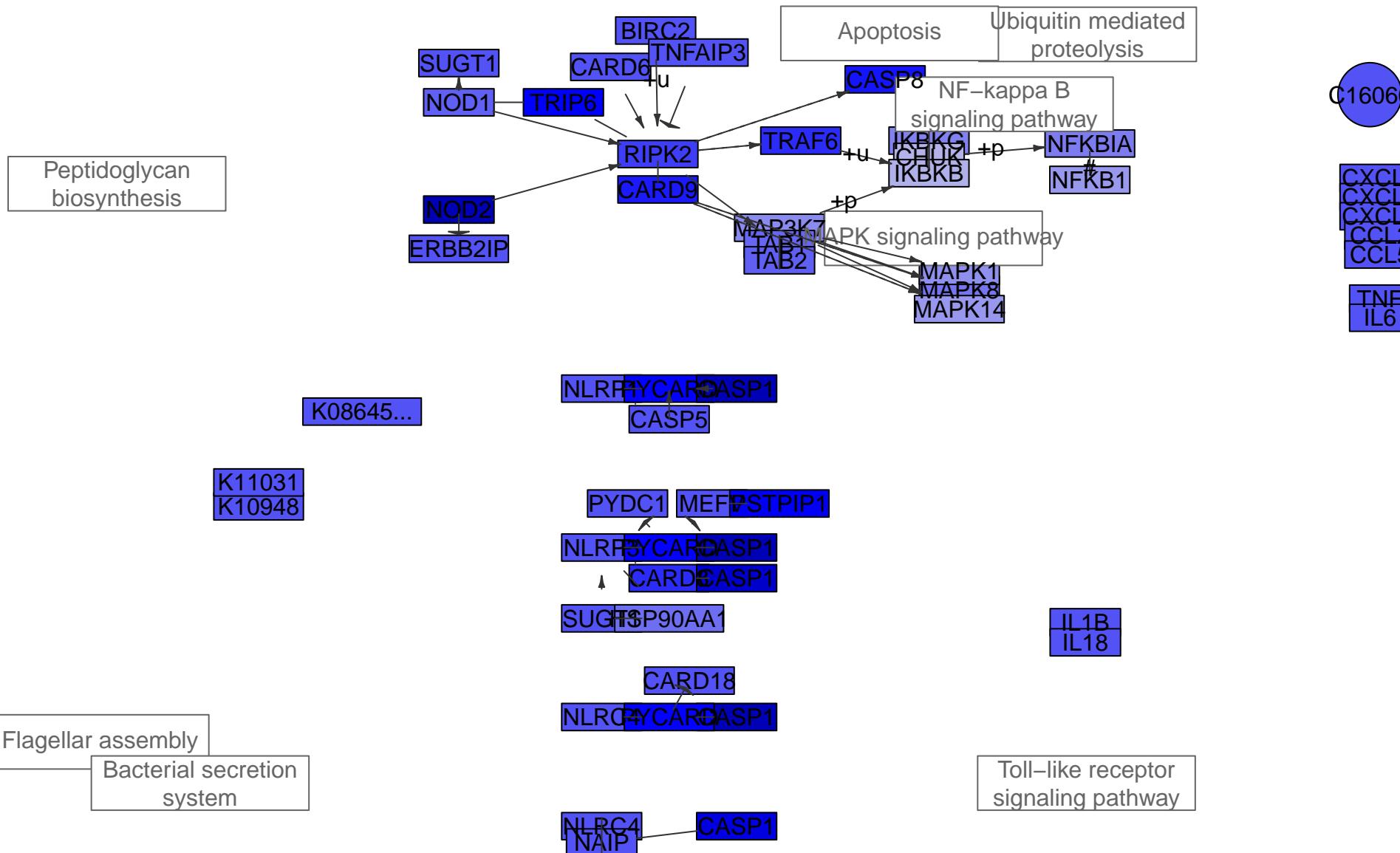
Toll-like receptor
signaling pathway

NLRP4
NAIP
CASP1

NOD-like receptor
signaling pathway
MPI-003

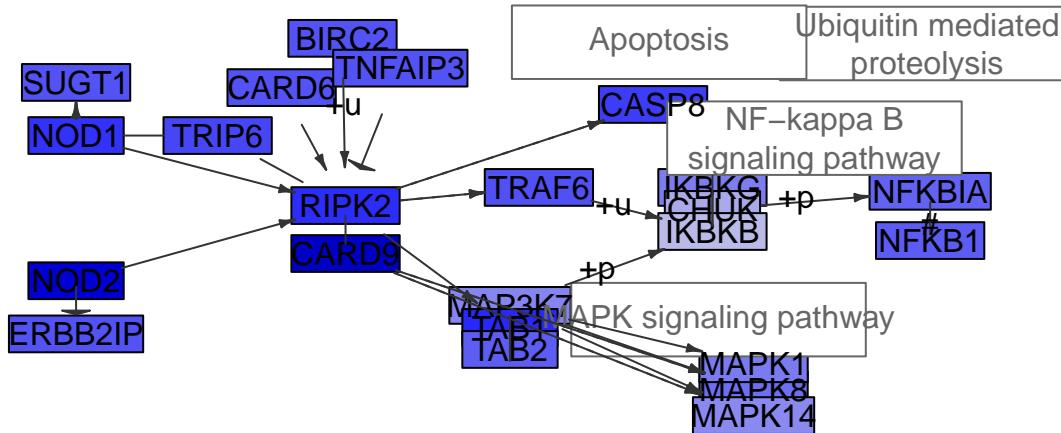


NOD-like receptor
signaling pathway
MPI-005



NOD-like receptor
signaling pathway
MPI-006

Peptidoglycan
biosynthesis



C16060
CXCL8
CXCL1
CXCL2
CCL2
CCL5
TNF
IL6

K08645...

NLRP3PYCARD8CASP1
CASP5

K11031
K10948

PYDC1 MEFV PSTPIP1
NLRP3PYCARD8CASP1
CARD8CASP1

Flagellar assembly
Bacterial secretion system

IL1B
IL18

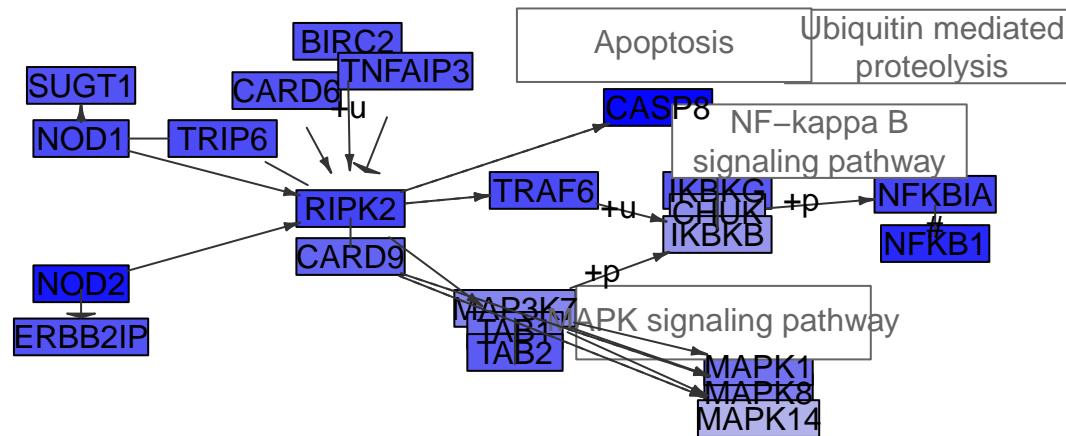
SUGT1 SP90AA1
CARD18
NLRP4PYCARD8CASP1

Toll-like receptor
signaling pathway

NLRP4 NAIP
CASP1

NOD-like receptor
signaling pathway
MPI-016

Peptidoglycan
biosynthesis



C16060
CXCL8
CXCL1
CXCL2
CCL2
CCL5
TNF
IL6

K08645...

NLRP3PYCARD8CASP1
CASP5

K11031
K10948

PYDC1 MEFV PSTPIP1
NLRP3PYCARD8CASP1
CARD8CASP1

Flagellar assembly
Bacterial secretion system

SUGT1 SP90AA1

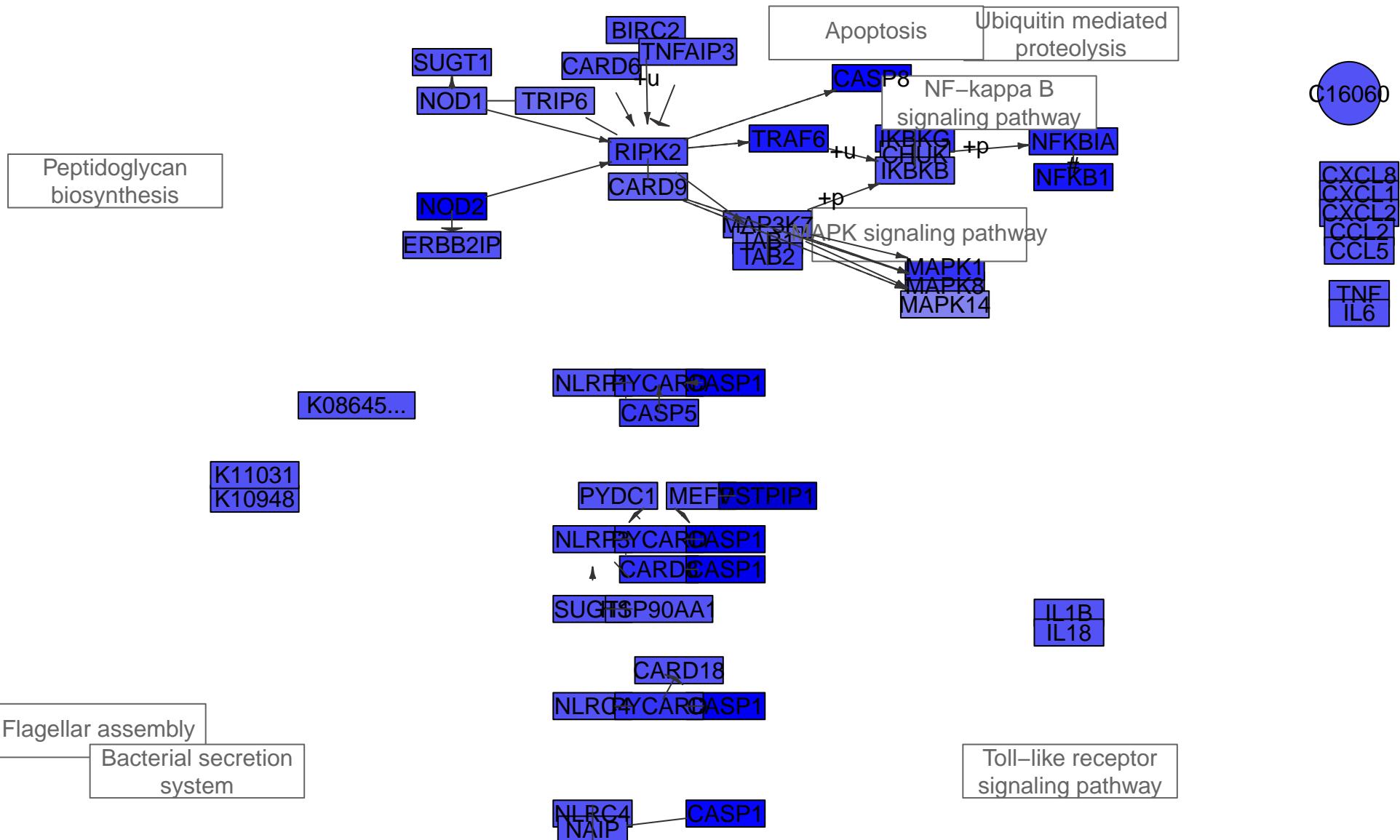
IL1B
IL18

CARD18
NLRP3PYCARD8CASP1

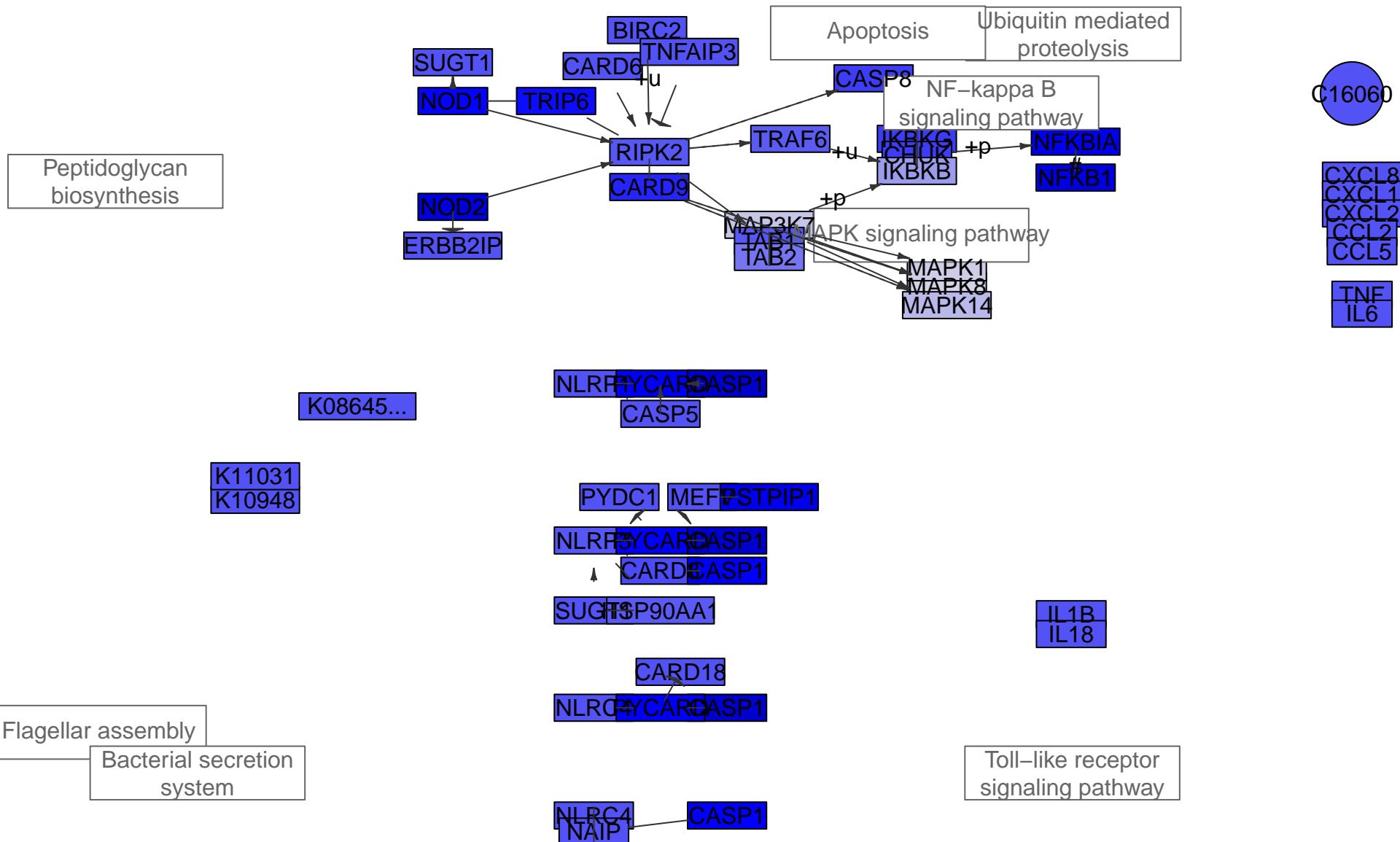
Toll-like receptor
signaling pathway

NLRP4CASP1
NAIP

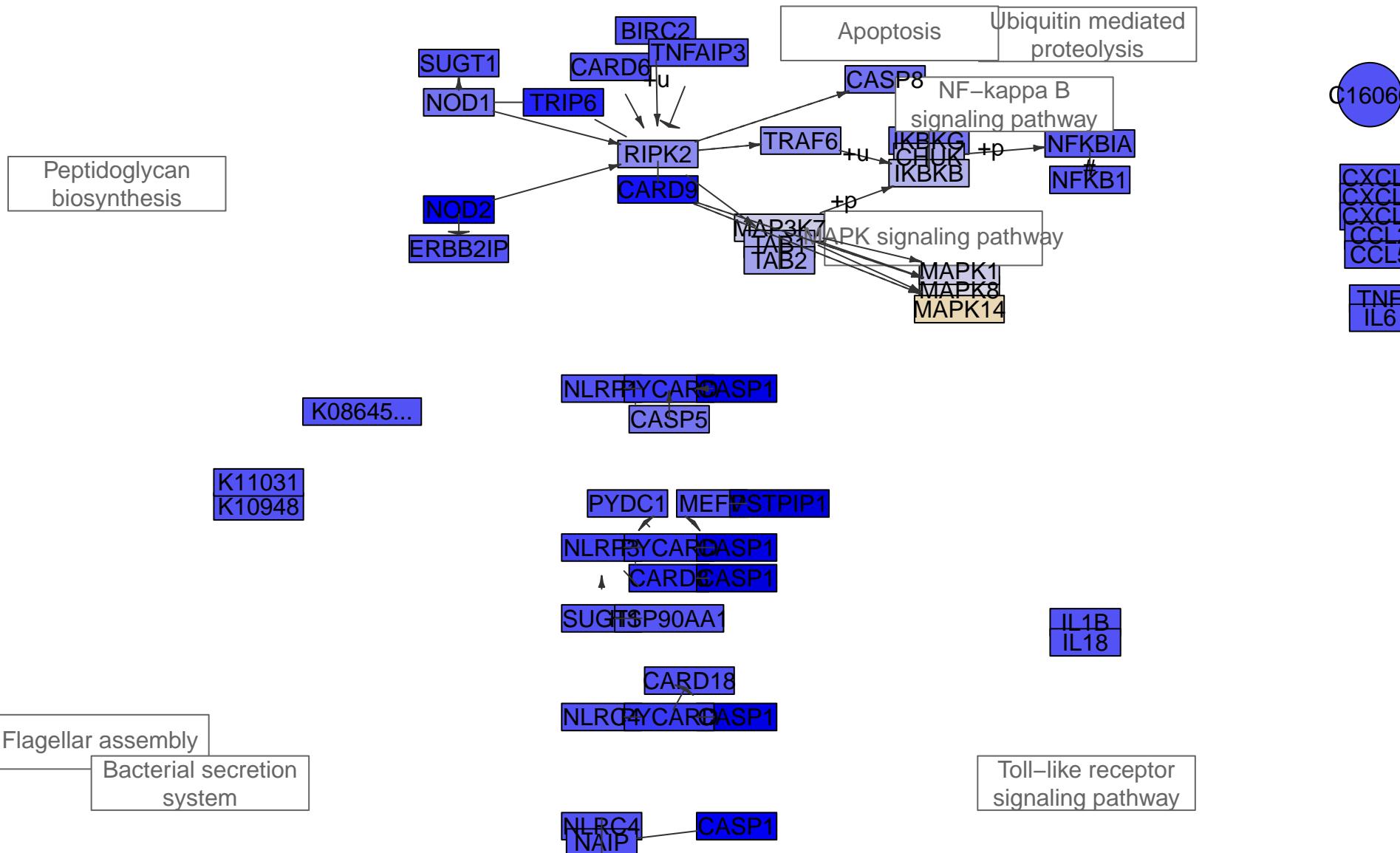
NOD-like receptor
signaling pathway
MPI-017



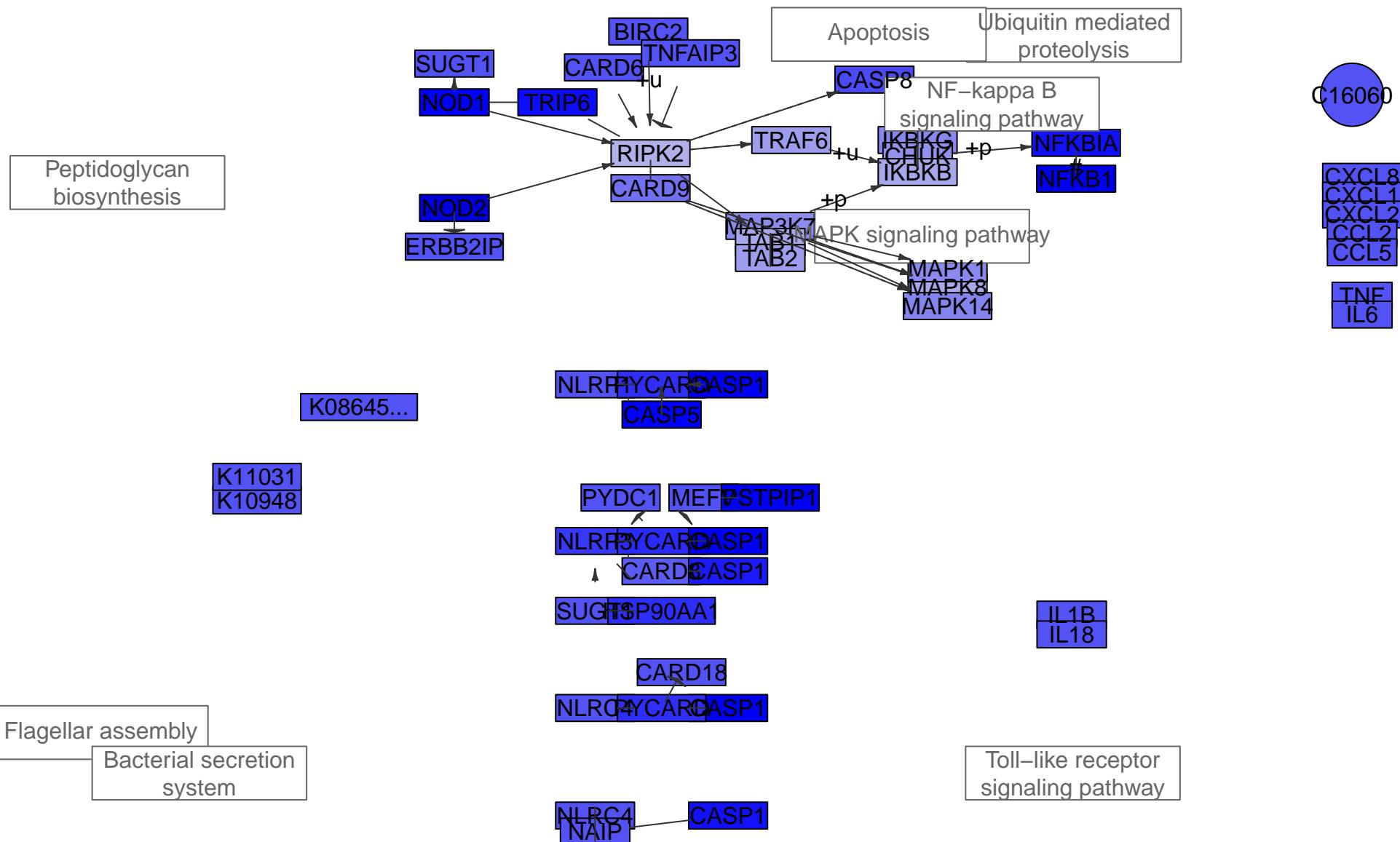
NOD-like receptor
signaling pathway
MPI-018



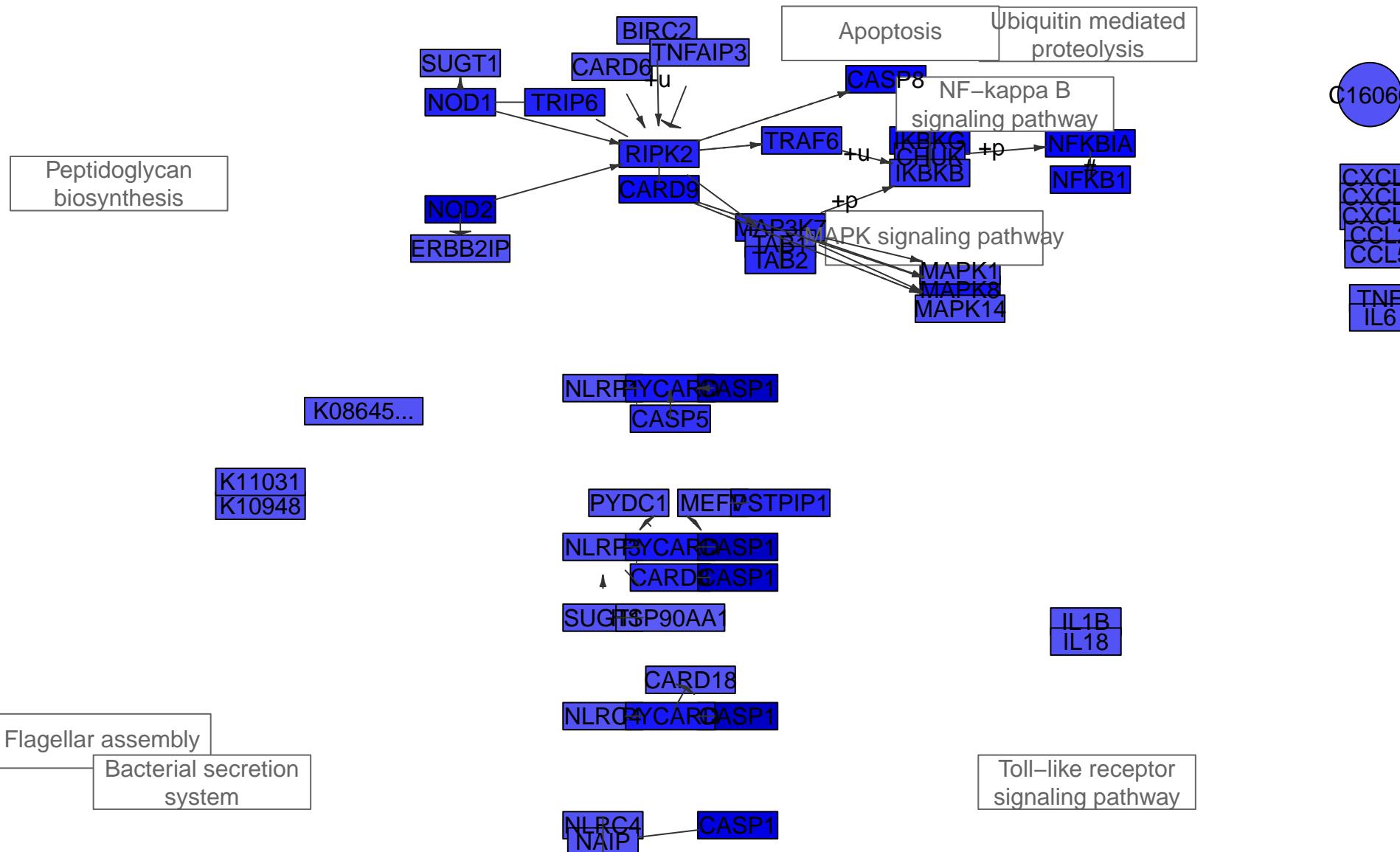
NOD-like receptor
signaling pathway
MPI-027



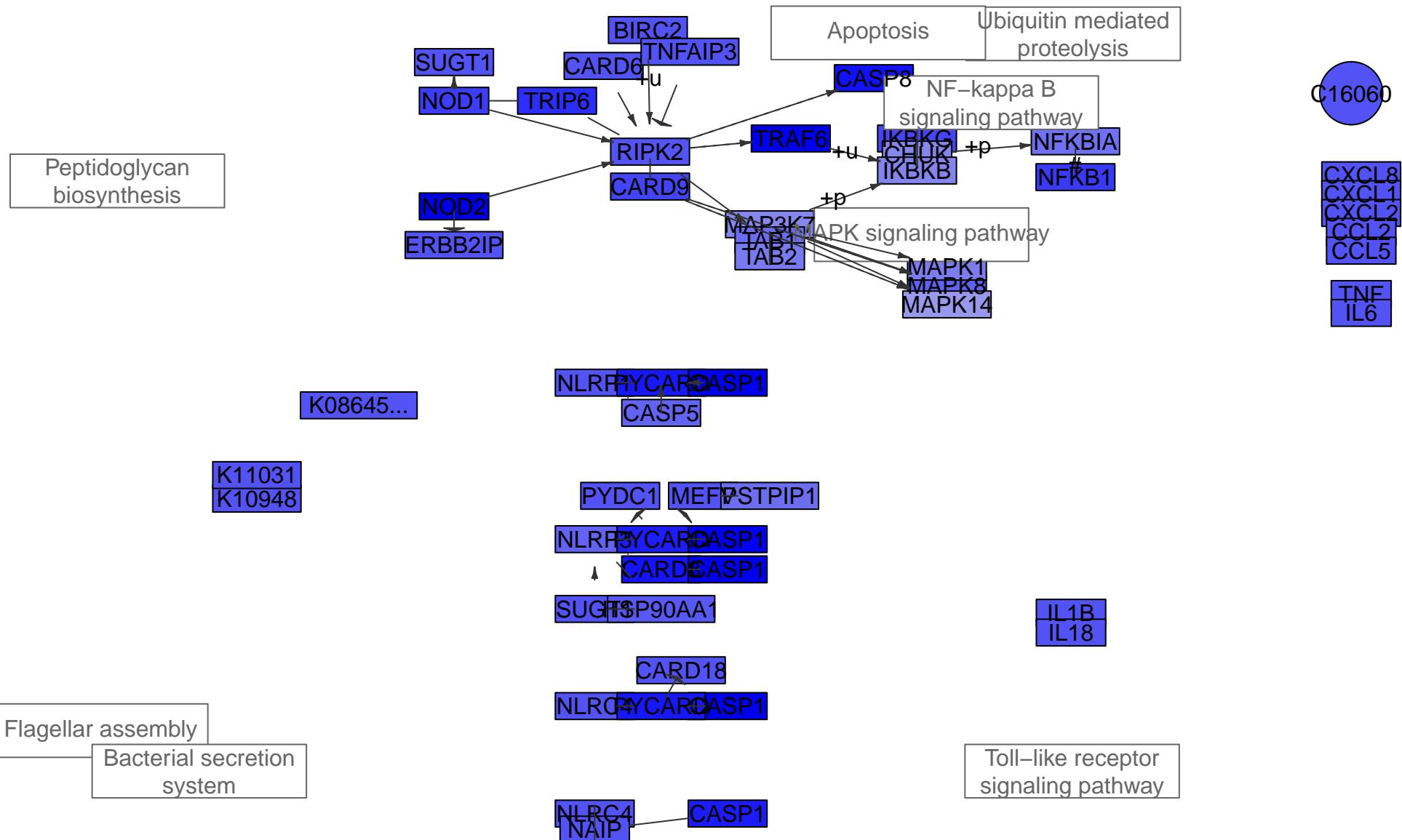
NOD-like receptor
signaling pathway
MPI-028



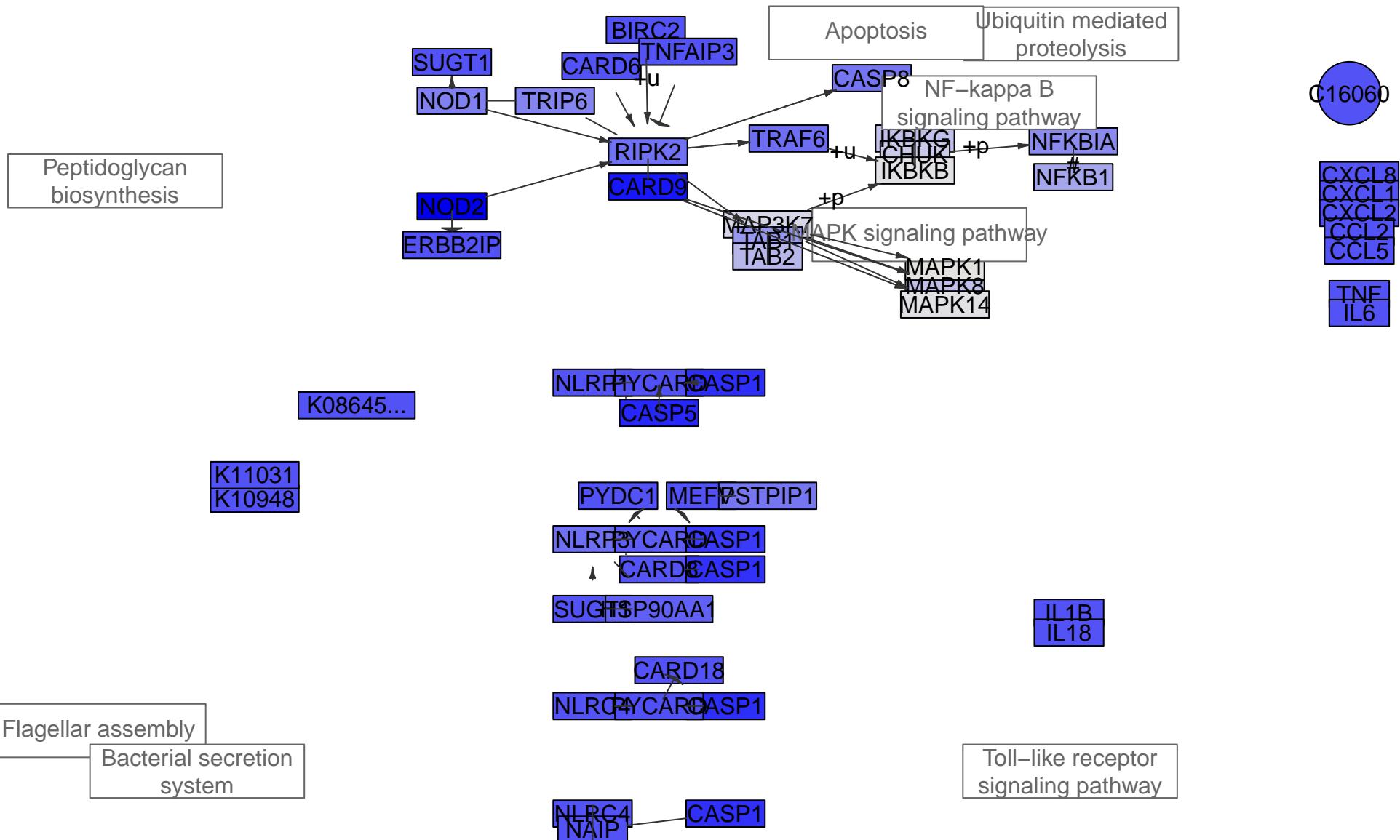
NOD-like receptor
signaling pathway
MPI-032



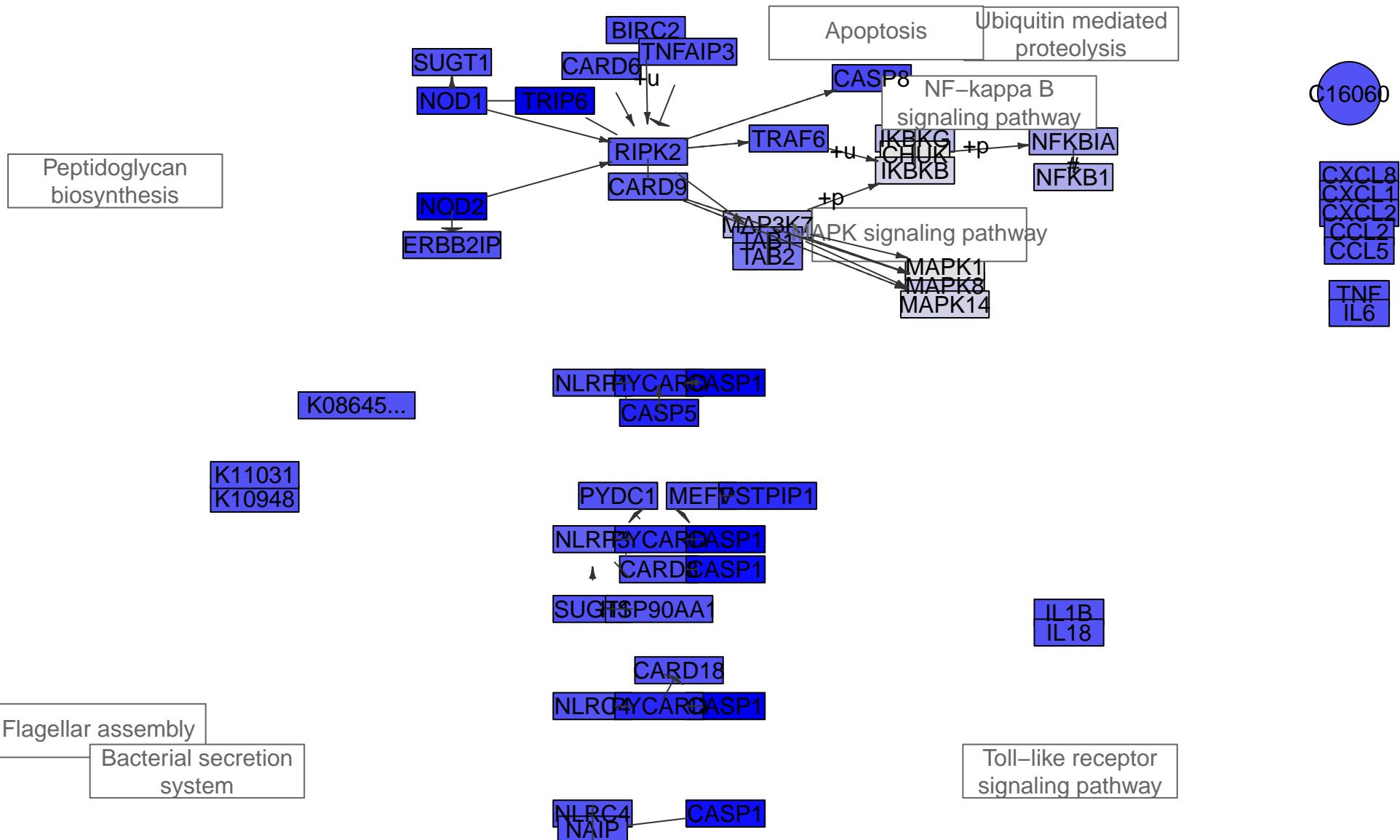
NOD-like receptor
signaling pathway
MPI=033



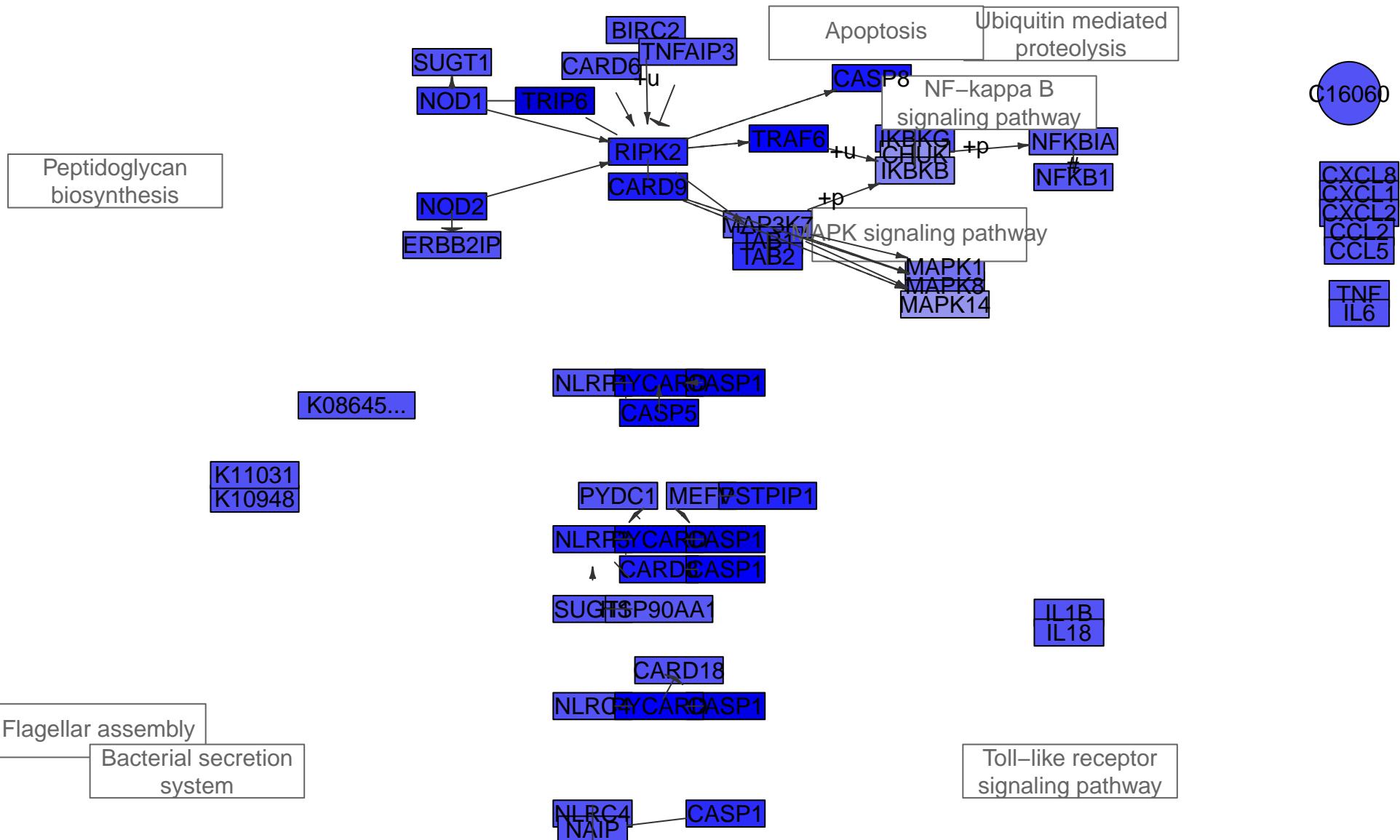
NOD-like receptor
signaling pathway
MPI-034



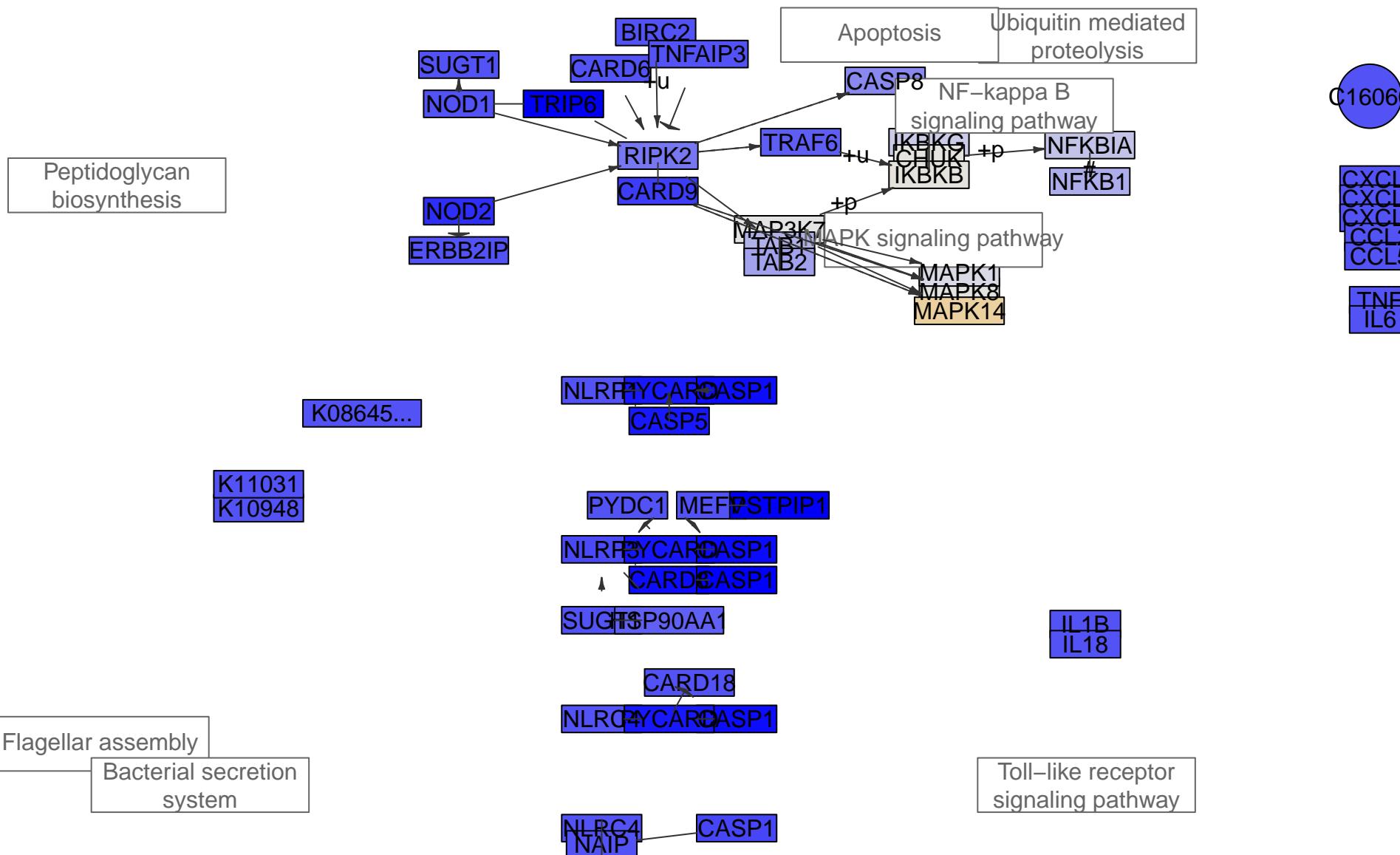
NOD-like receptor
signaling pathway
MPI-043



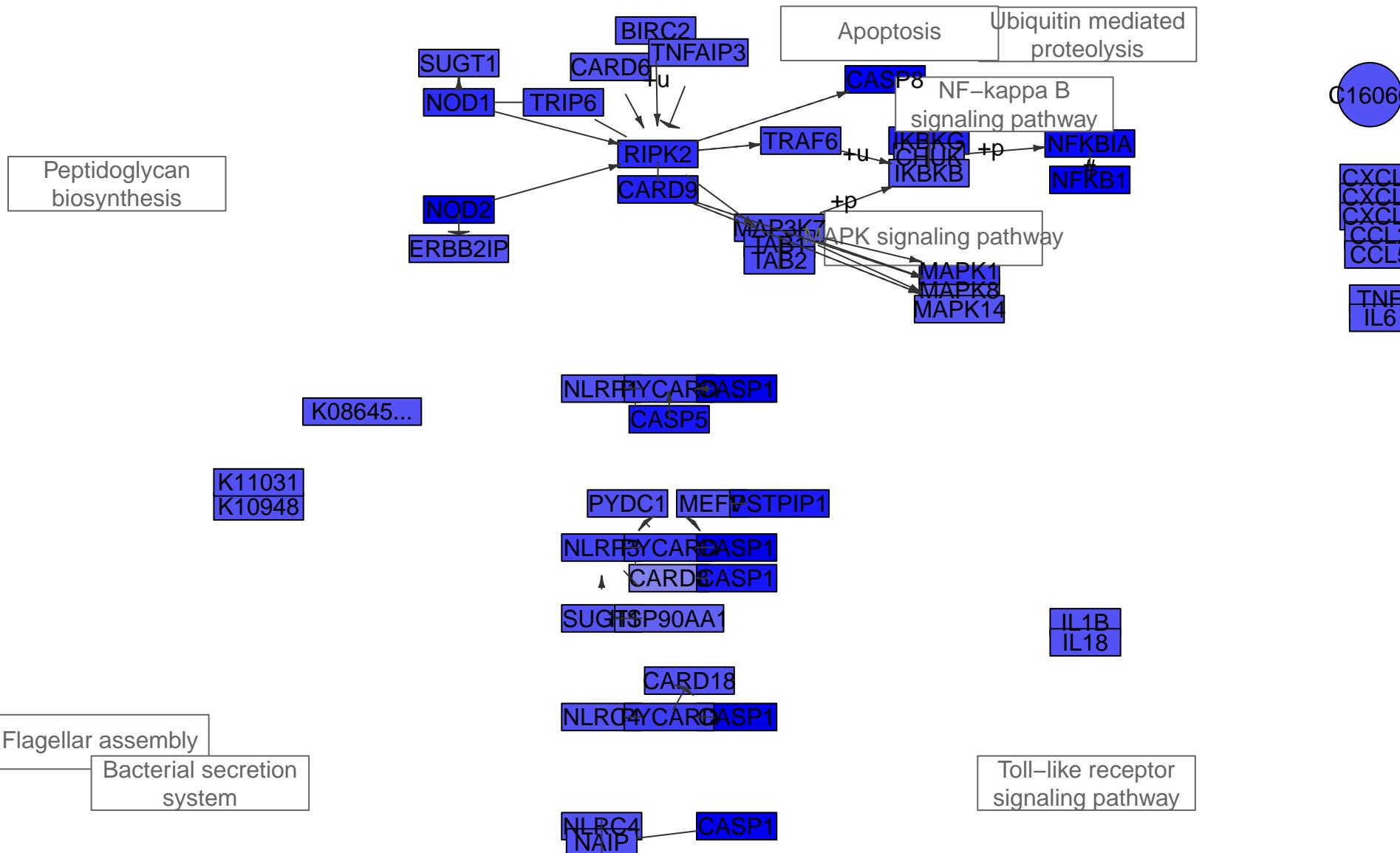
NOD-like receptor
signaling pathway
MPI-044



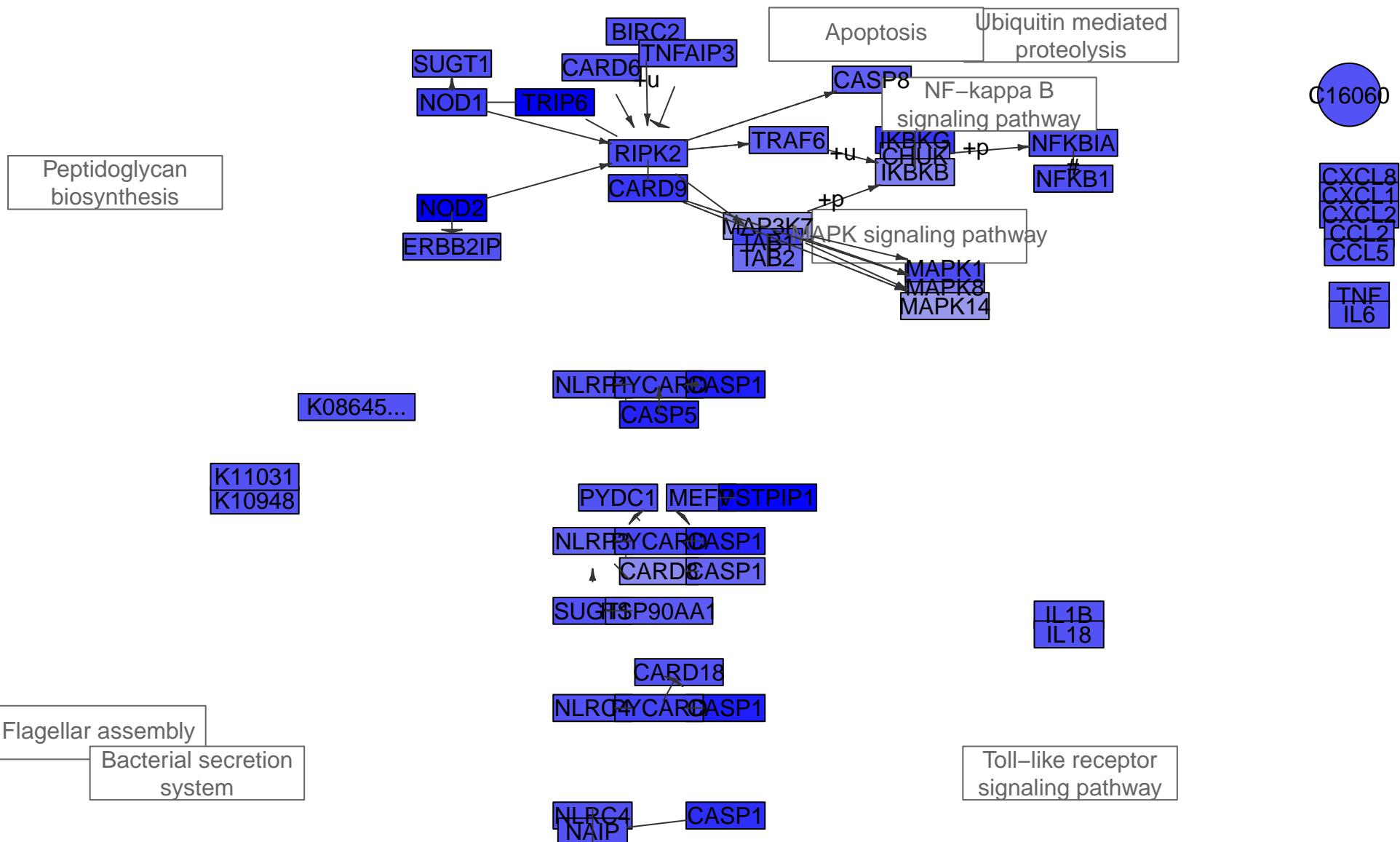
NOD-like receptor
signaling pathway
MPI-048



NOD-like receptor
signaling pathway
MPI=055

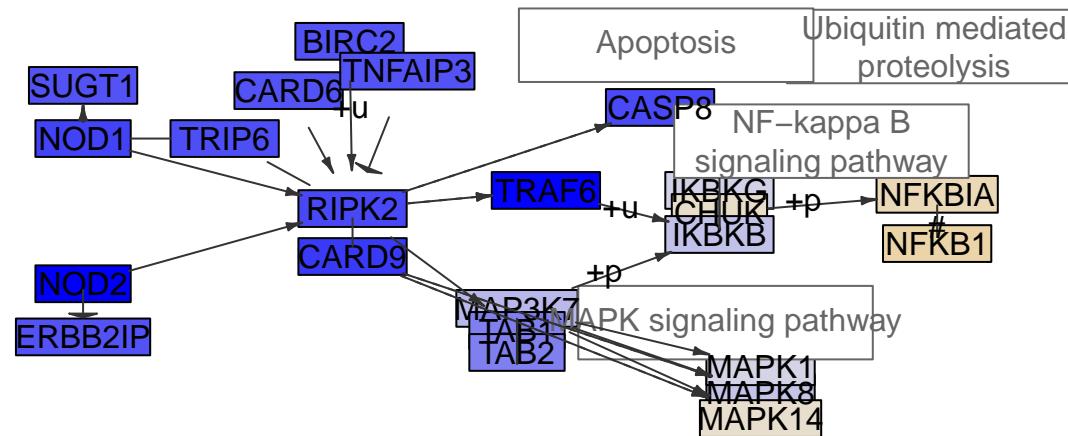


NOD-like receptor
signaling pathway
MPI-065



NOD-like receptor
signaling pathway
MPI-071

Peptidoglycan
biosynthesis



C16060
CXCL8
CXCL1
CXCL2
CCL2
CCL5
TNF
IL6

K08645...

NLRPF3YCARDASP1
CASP5

K11031
K10948

PYDC1 MEFV STPIP1
NLRPF3YCARDASP1
CARD8CASP1

Flagellar assembly
Bacterial secretion system

IL1B
IL18

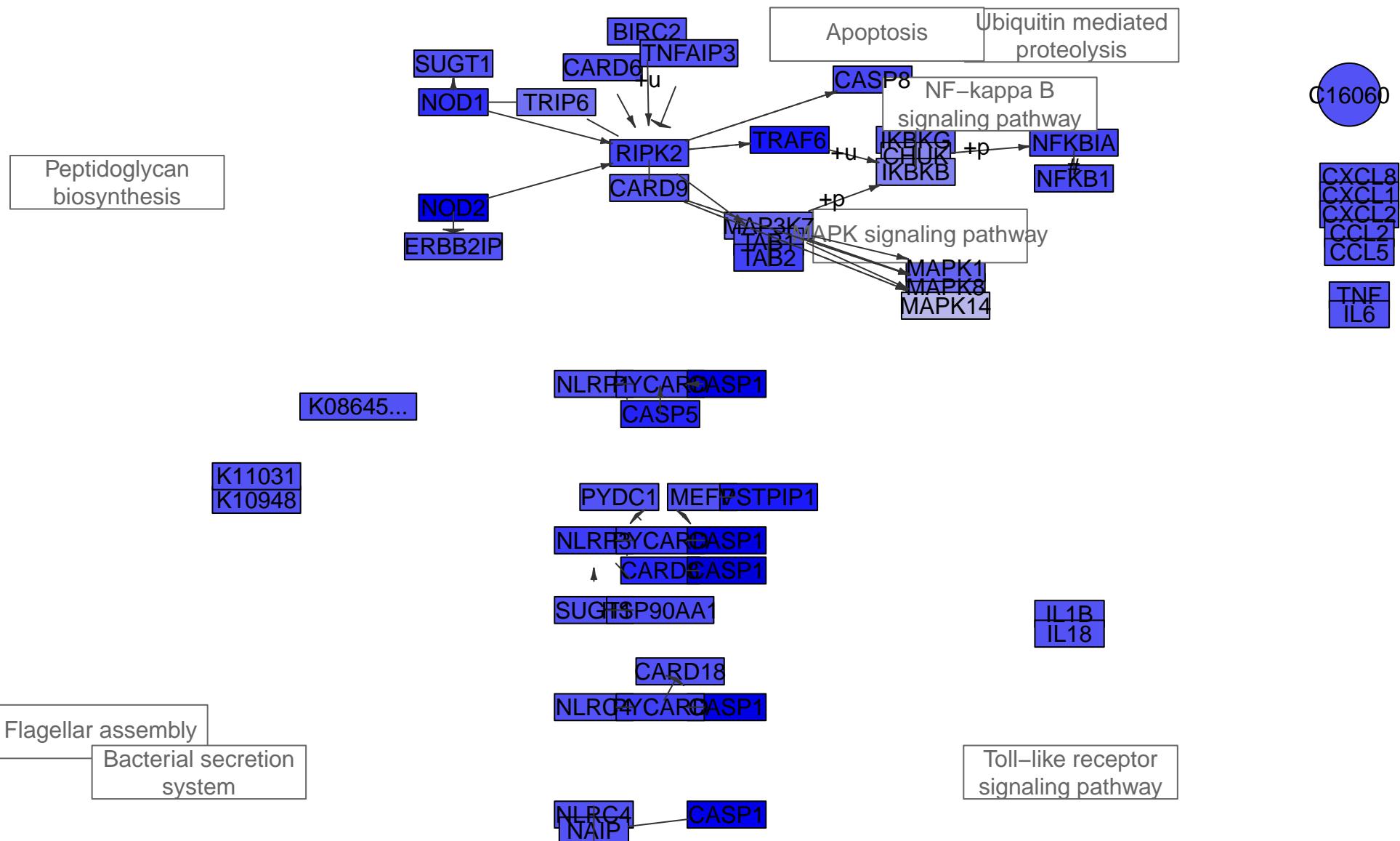
SUGT1 SP90AA1

CARD18
NLRPF3YCARDASP1

Toll-like receptor
signaling pathway

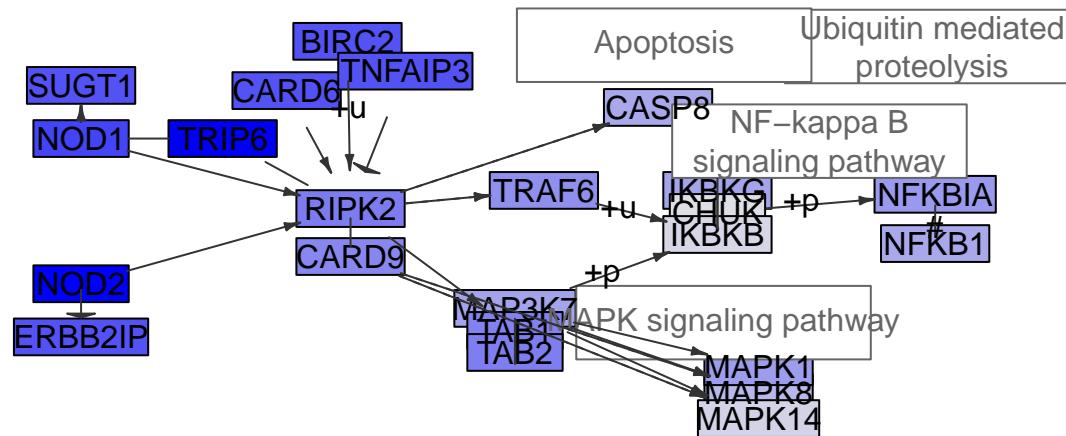
NLRPF4YCARDASP1
CASP1

NOD-like receptor
signaling pathway
MPI-075



NOD-like receptor
signaling pathway
MPI-077

Peptidoglycan
biosynthesis



C16060
CXCL8
CXCL1
CXCL2
CCL2
CCL5
TNF
IL6

K08645...

NLRPF3YCARDASP1
CASP5

K11031
K10948

PYDC1 MEFV STPIP1
NLRPF3YCARDASP1
CARD8CASP1

Flagellar assembly
Bacterial secretion system

SUGT1 SP90AA1

IL1B
IL18

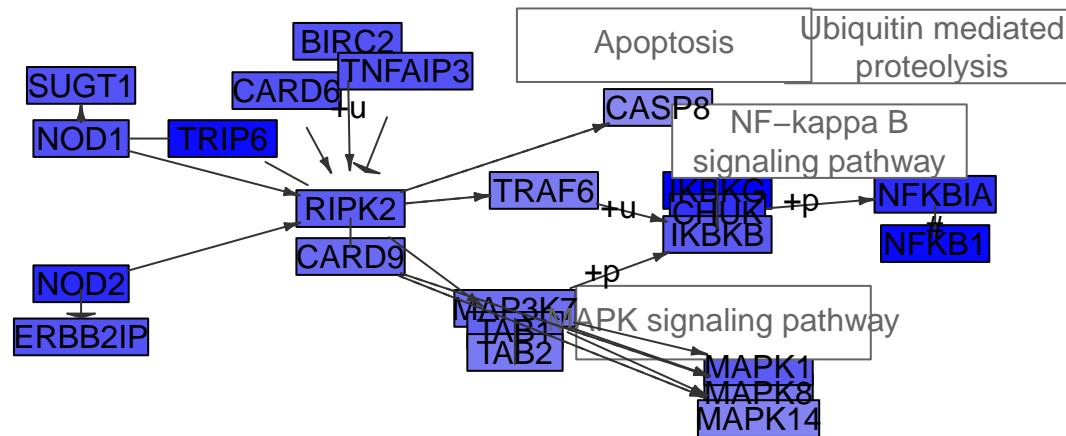
CARD18
NLRPF3YCARDASP1

Toll-like receptor
signaling pathway

NLRPF4YCARDASP1
NAIP
CASP1

NOD-like receptor
signaling pathway
MPI-078

Peptidoglycan
biosynthesis



C16060
CXCL8
CXCL1
CXCL2
CCL2
CCL5
TNF
IL6

K08645...

NLRPF3YCARD8CASP1
CASP5

K11031
K10948

PYDC1 MEFV STPIP1
NLRPF3YCARD8CASP1
CARD8CASP1

Flagellar assembly
Bacterial secretion system

IL1B
IL18

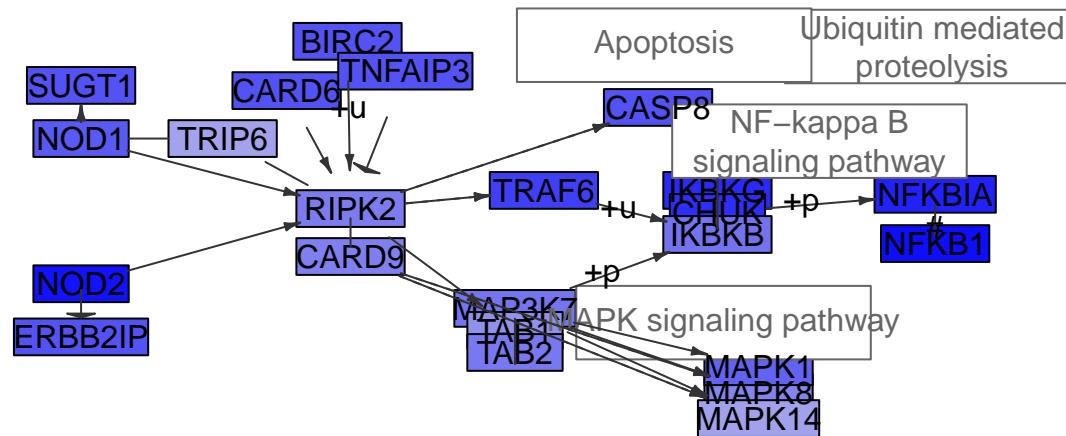
SUGT1 SP90AA1
CARD18
NLRPF3YCARD8CASP1

Toll-like receptor
signaling pathway

NLRPF4YCASP1
NAIP

NOD-like receptor
signaling pathway
MPI-079

Peptidoglycan
biosynthesis



C16060
CXCL8
CXCL1
CXCL2
CCL2
CCL5
TNF
IL6

K08645...

NLRPF3YCARD8CASP1
CASP5

K11031
K10948

PYDC1 MEFV STPIP1
NLRPF3YCARD8CASP1
CARD8CASP1

Flagellar assembly
Bacterial secretion system

SUGT1 SP90AA1

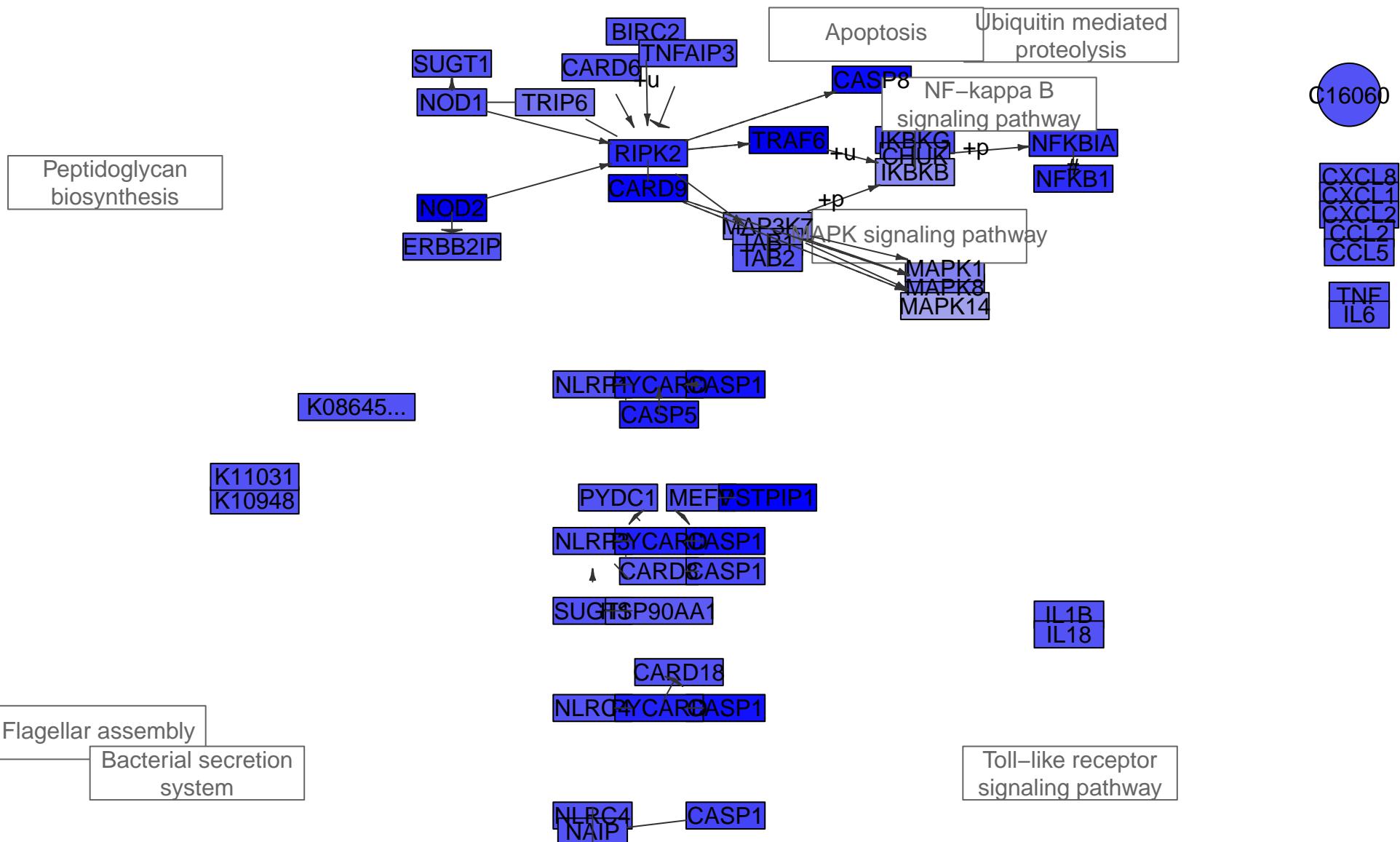
IL1B
IL18

CARD18
NLRPF4YCARD8CASP1

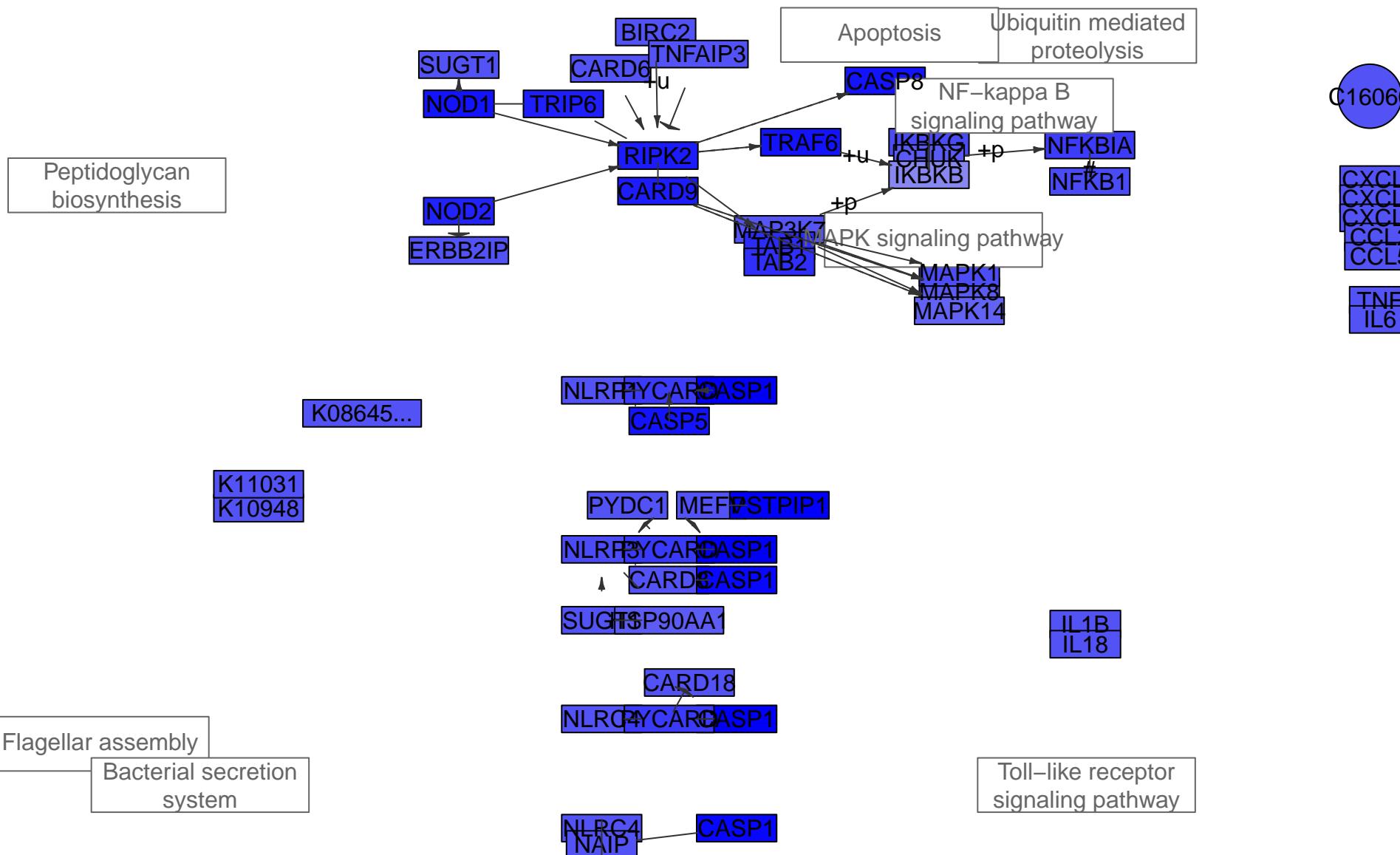
Toll-like receptor
signaling pathway

NLRPF4YCASP1
NAIP

NOD-like receptor
signaling pathway
MPI=080

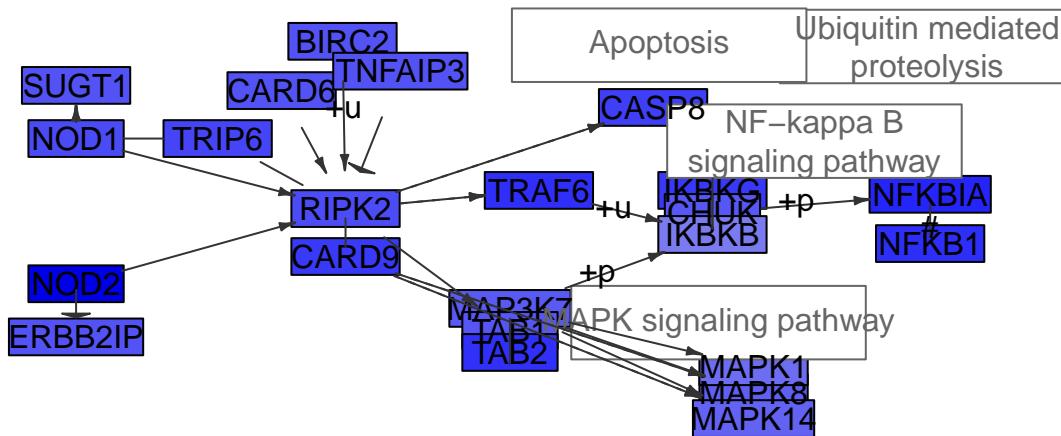


NOD-like receptor
signaling pathway
MPI-081



NOD-like receptor
signaling pathway
MPI-082

Peptidoglycan
biosynthesis



C16060
CXCL8
CXCL1
CXCL2
CCL2
CCL5
TNF
IL6

K08645...

NLRP3YCARDASP1
CASP5

K11031
K10948

PYDC1 MEFV STPIP1
NLRP3YCARDASP1
CARD8CASP1

Flagellar assembly
Bacterial secretion system

IL1B
IL18

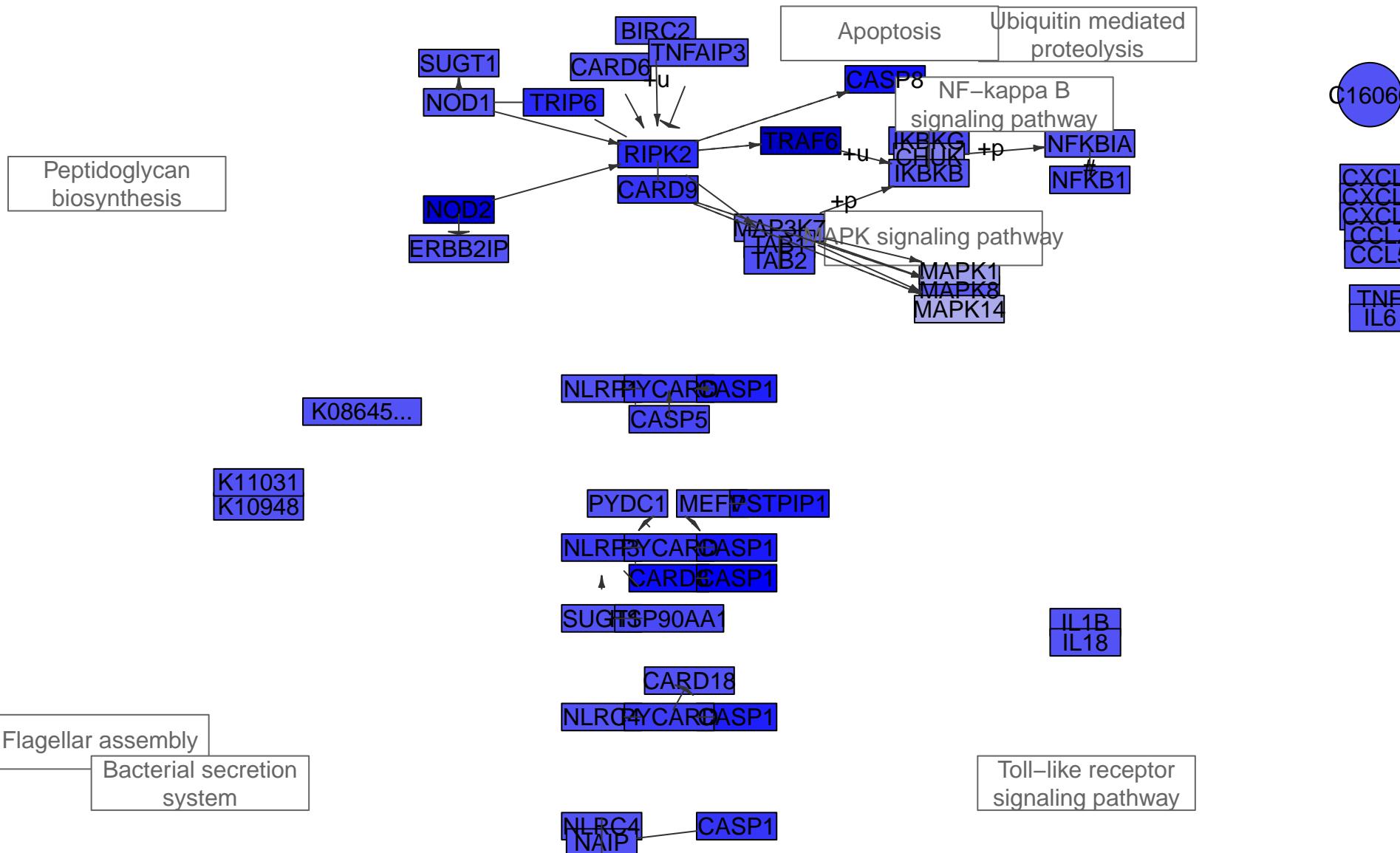
SUGT1SP90AA1

CARD18
NLRP3YCARDASP1

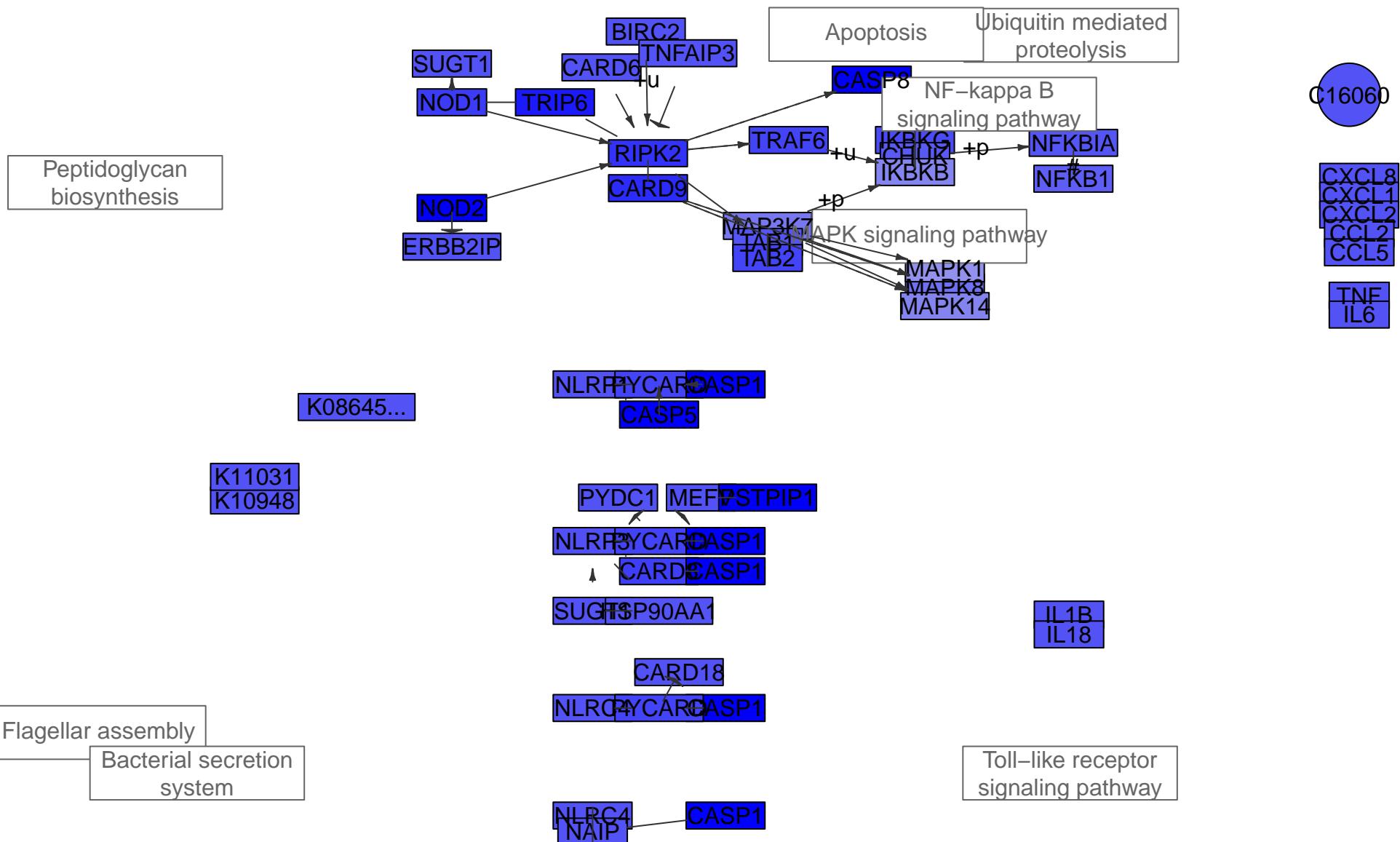
Toll-like receptor
signaling pathway

NLRP4YCARDASP1
CASP1

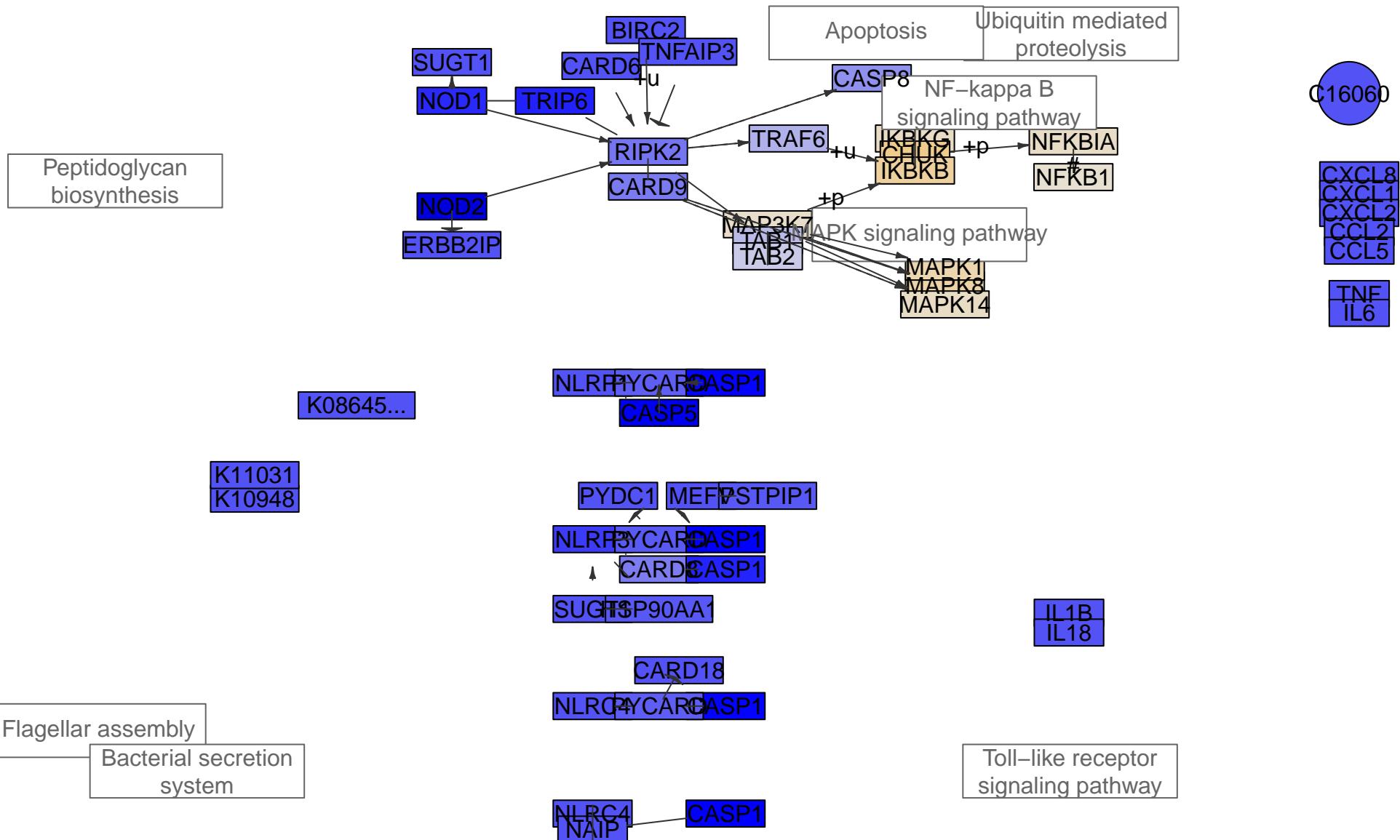
NOD-like receptor
signaling pathway
MPI-084



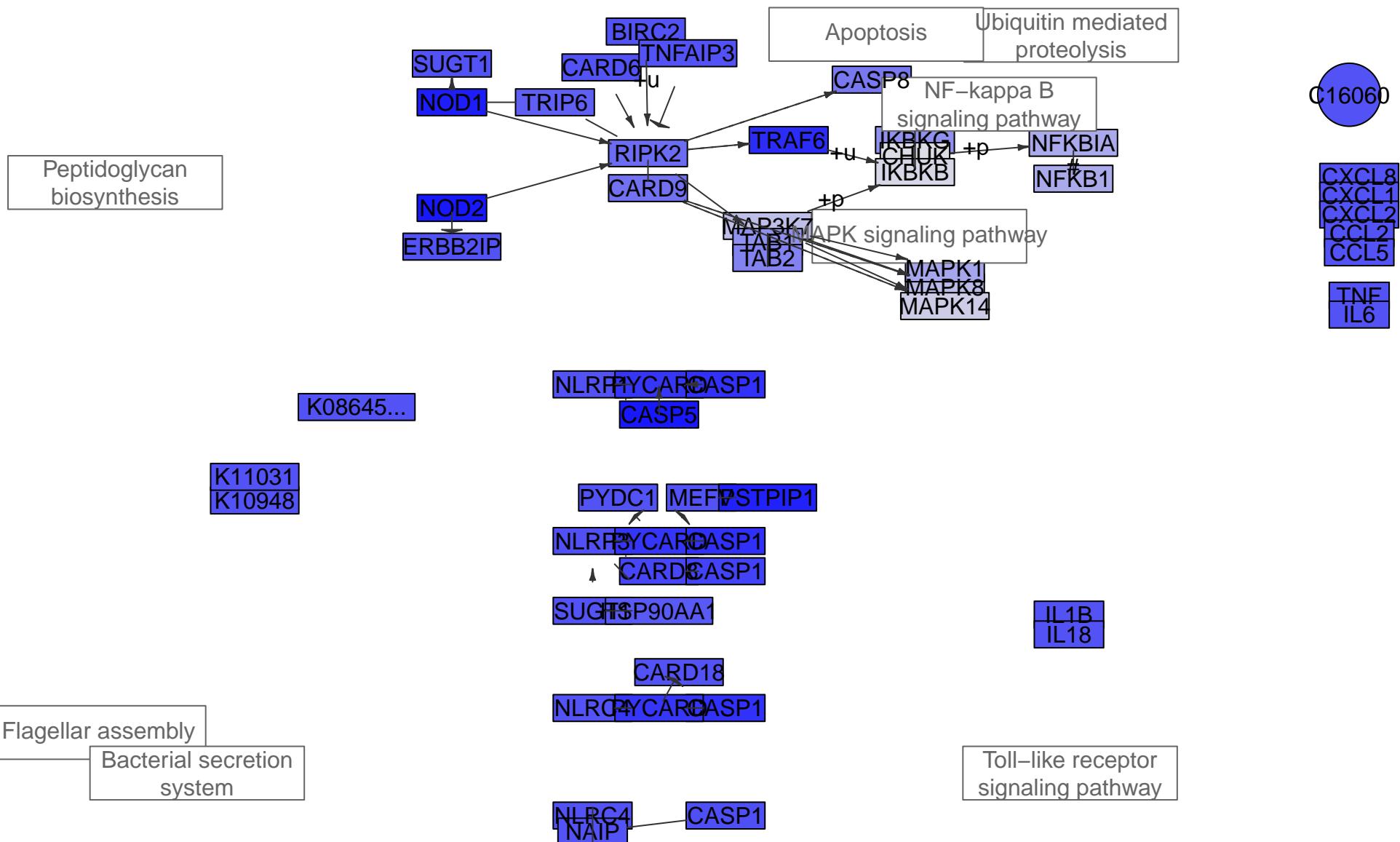
NOD-like receptor
signaling pathway
MPI-085



NOD-like receptor
signaling pathway
MPI-086

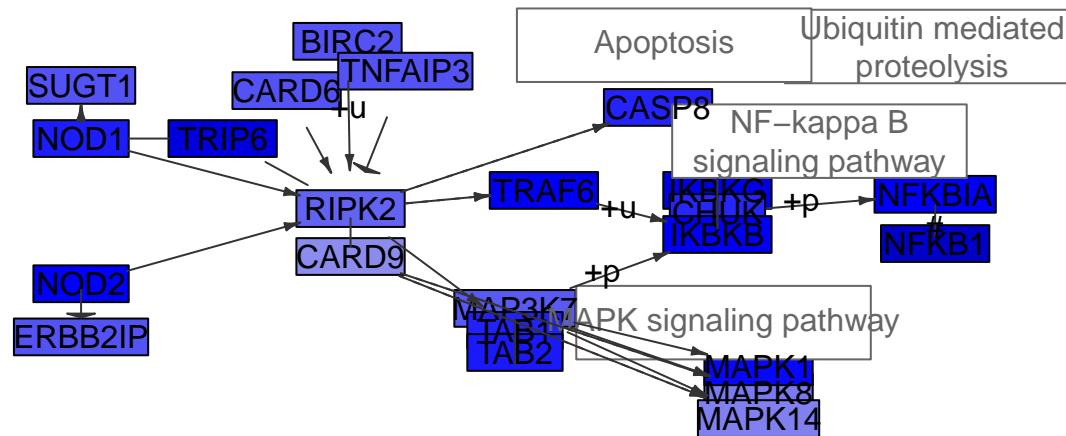


NOD-like receptor
signaling pathway
MPI-087



NOD-like receptor
signaling pathway
MPI-089

Peptidoglycan
biosynthesis



C16060
CXCL8
CXCL1
CXCL2
CCL2
CCL5
TNF
IL6

K08645...

NLRP3YCARDASP1
CASP5

K11031
K10948

PYDC1 MEFV PSTPIP1
NLRP3YCARDASP1
CARD8CASP1

Flagellar assembly
Bacterial secretion system

IL1B
IL18

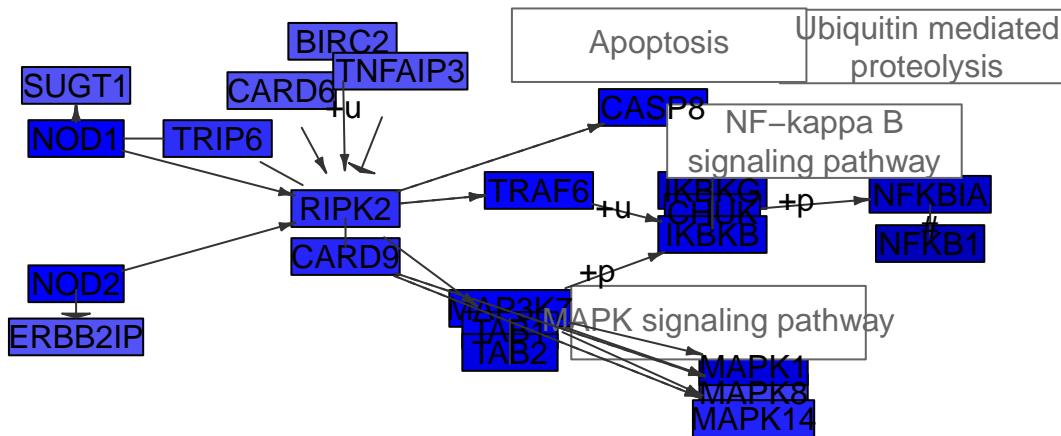
SUGT1 SP90AA1
CARD18
NLRP3YCARDASP1

Toll-like receptor
signaling pathway

NLRP4 NAIP
CASP1

NOD-like receptor
signaling pathway
MPI-090

Peptidoglycan
biosynthesis



C16060

CXCL8
CXCL1
CXCL2
CCL2
CCL5

TNF
IL6

K08645...

NLRP3YCARDASP1
CASP5

K11031
K10948

PYDC1 MEFV STPIP1
NLRP3YCARDASP1
CARD8CASP1

Flagellar assembly
Bacterial secretion system

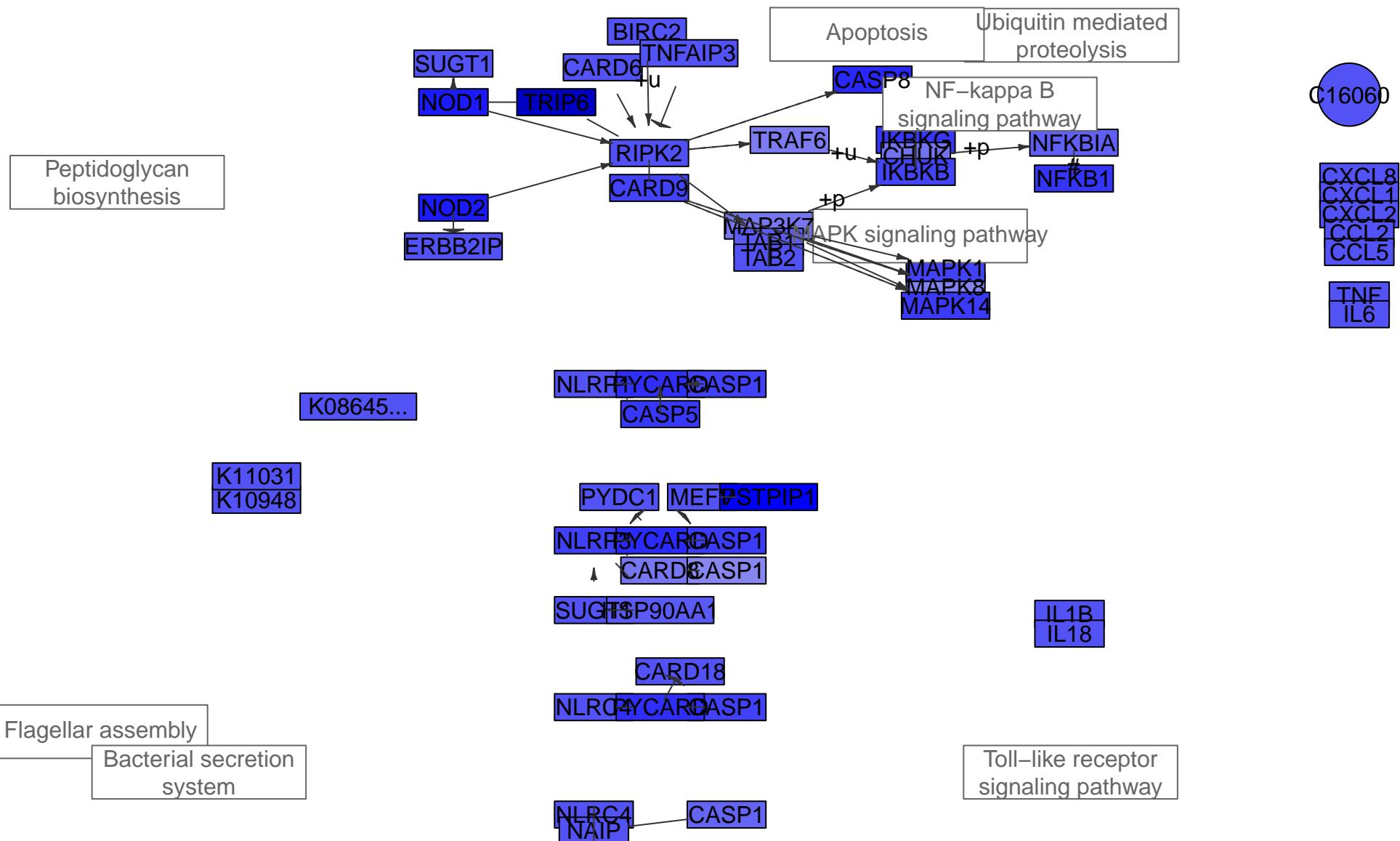
IL1B
IL18

SUGT1SP90AA1
CARD18
NLRP3YCARDASP1

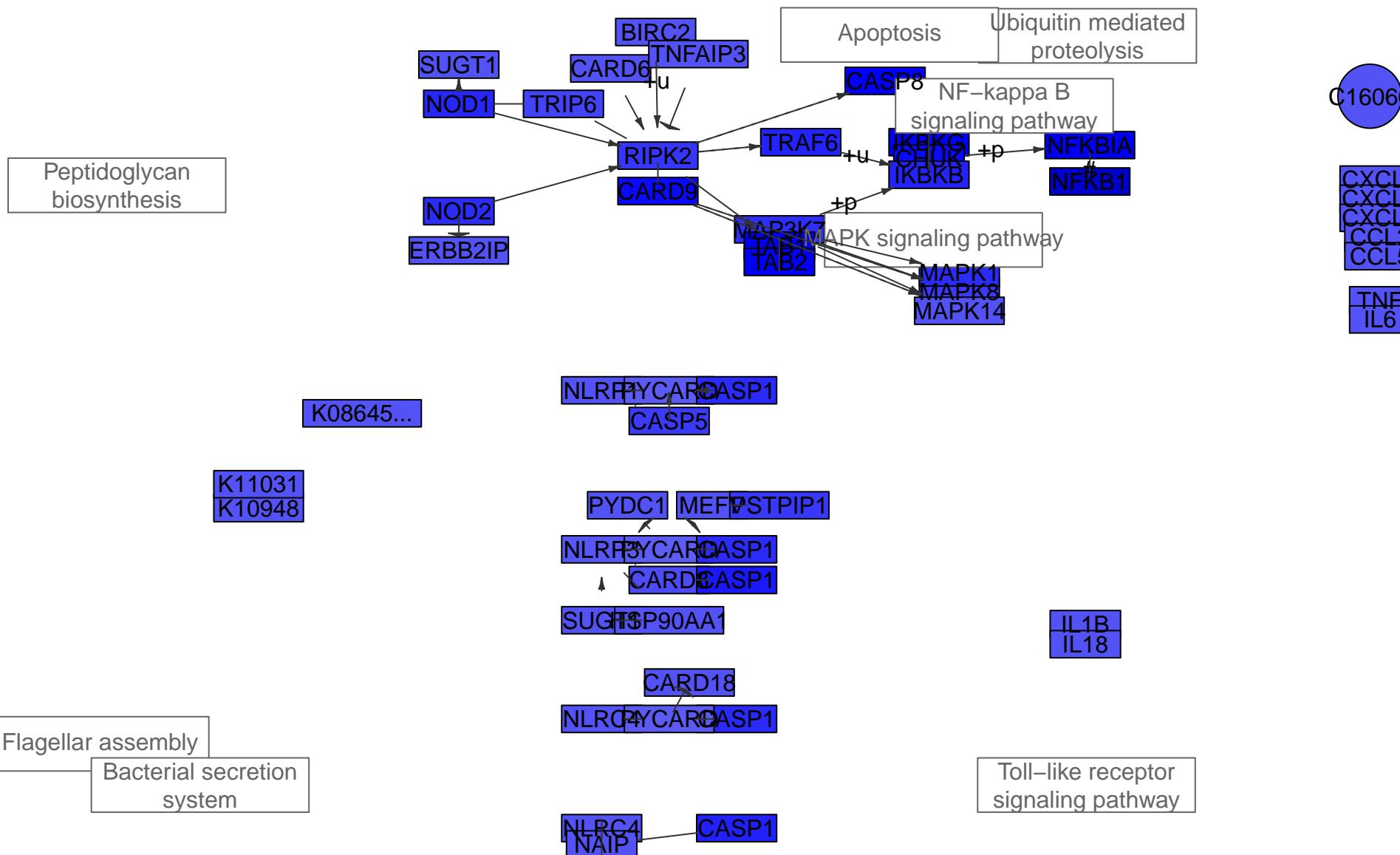
Toll-like receptor
signaling pathway

NLRP4CASP1
NAIP

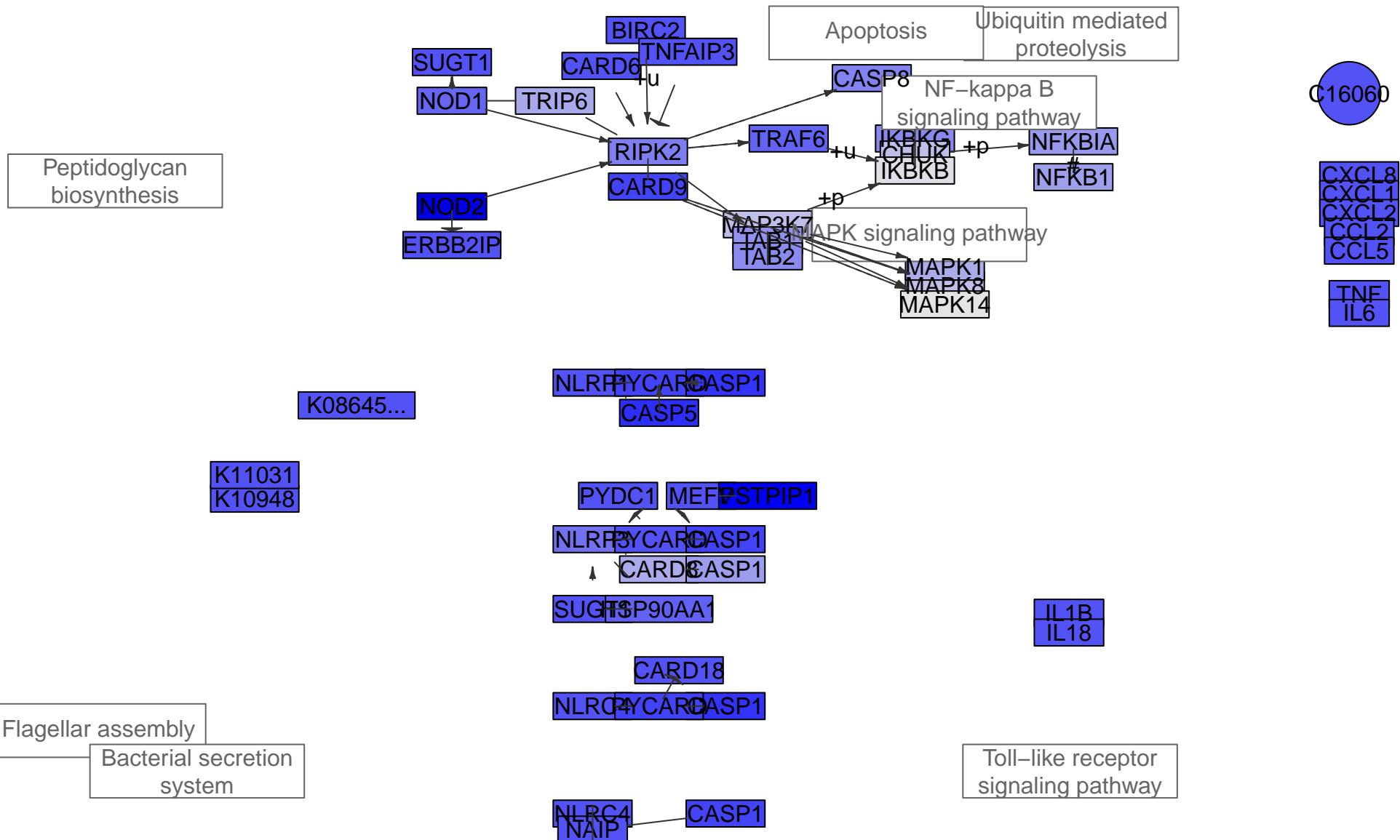
NOD-like receptor
signaling pathway
MPI-091



NOD-like receptor
signaling pathway
MPI-095

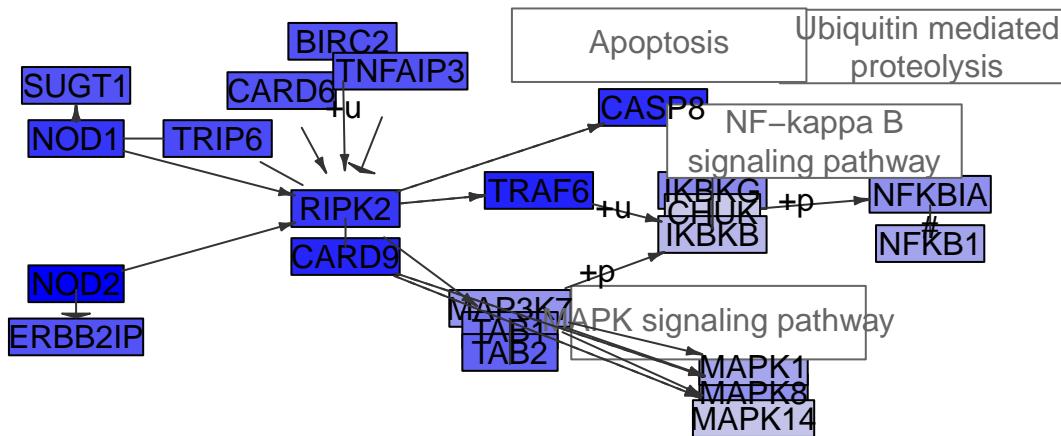


NOD-like receptor
signaling pathway
MPI-101



NOD-like receptor
signaling pathway
MPI-114

Peptidoglycan
biosynthesis



C16060
CXCL8
CXCL1
CXCL2
CCL2
CCL5
TNF
IL6

K08645...

NLRP3PYCARD8CASP1
CASP5

K11031
K10948

PYDC1 MEF17 STPIP1
NLRP3PYCARD8CASP1
CARD8CASP1

Flagellar assembly
Bacterial secretion system

SUGT1SP90AA1

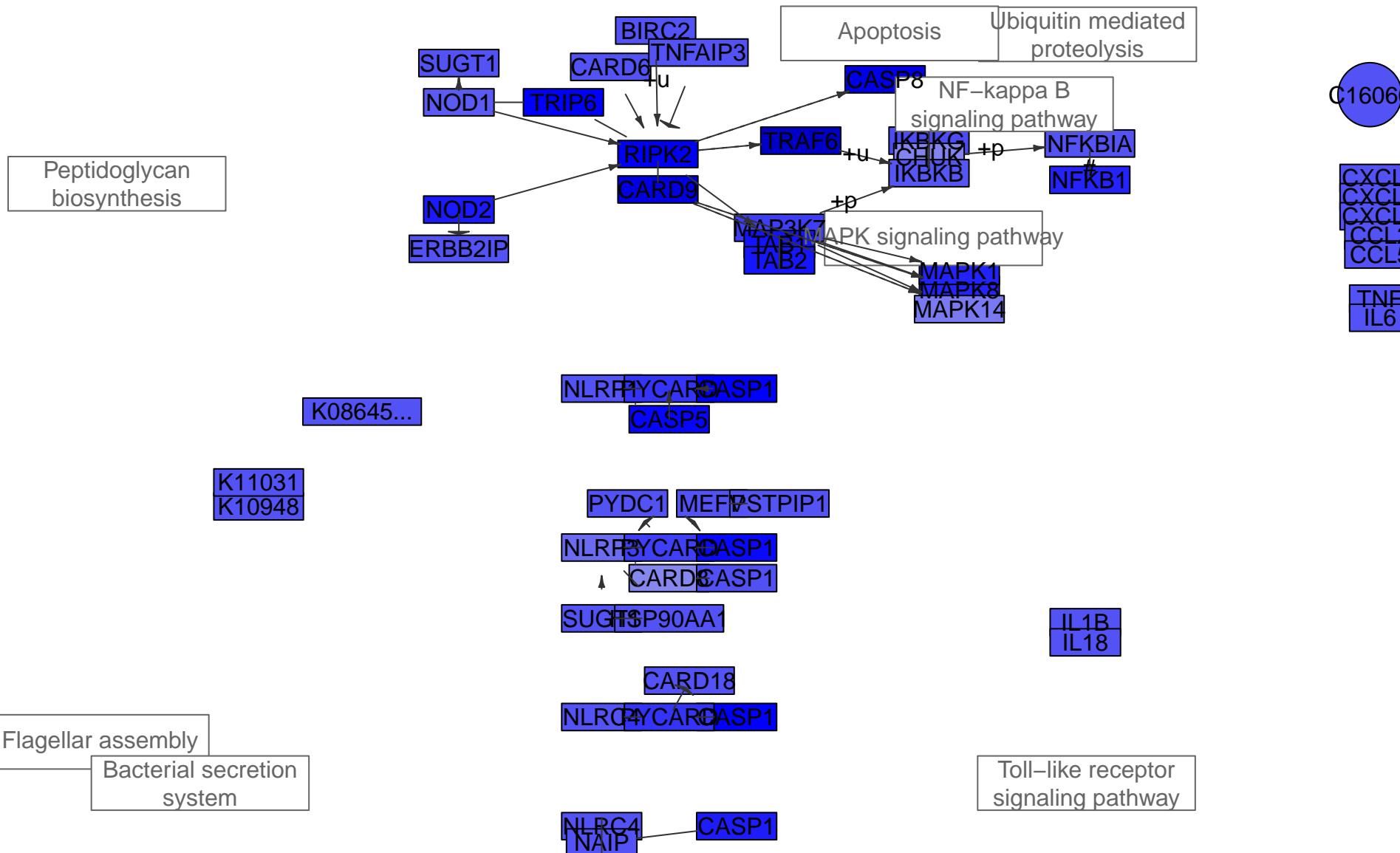
IL1B
IL18

CARD18
NLRP3PYCARD8CASP1

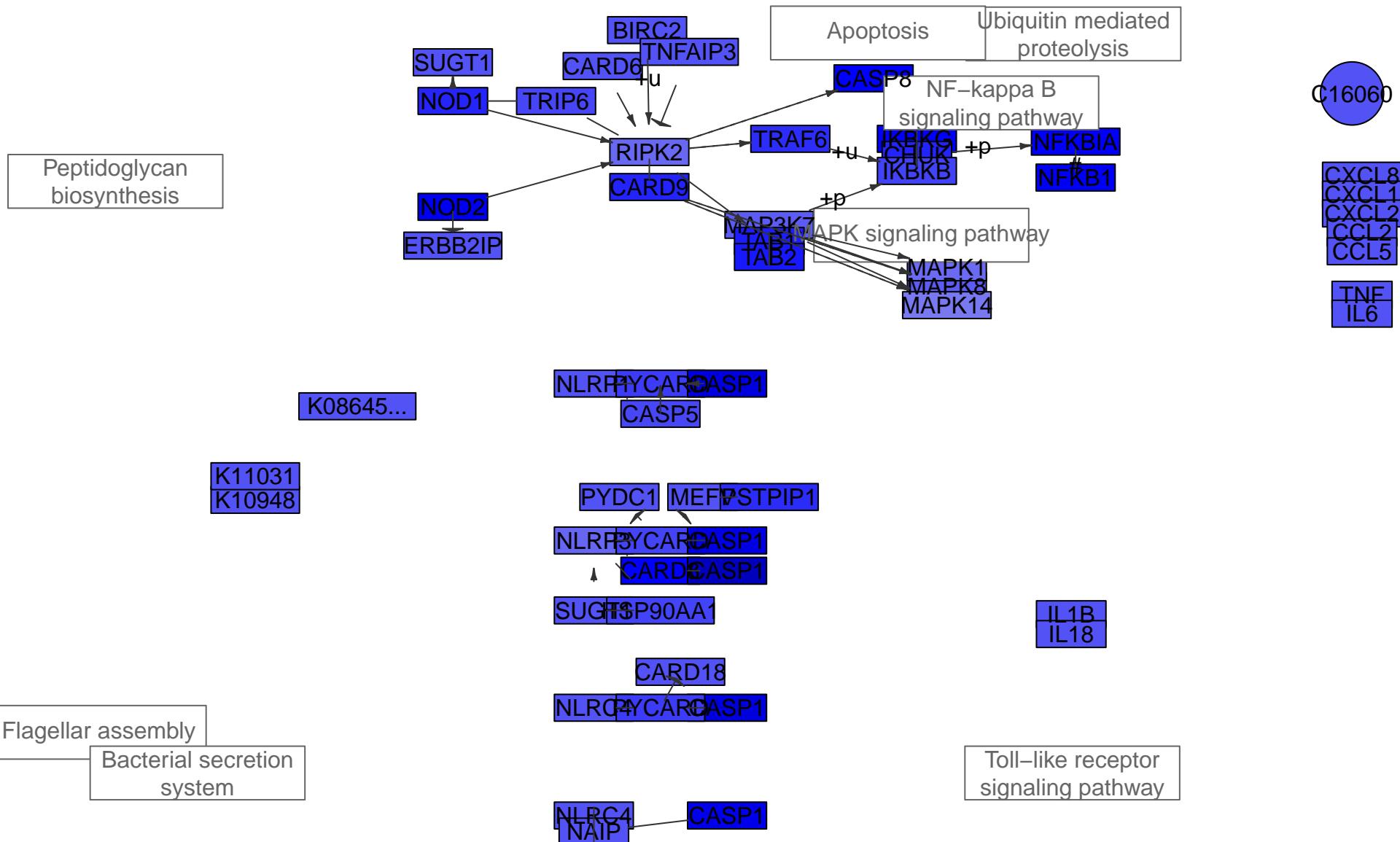
Toll-like receptor
signaling pathway

NLRP4CASP1

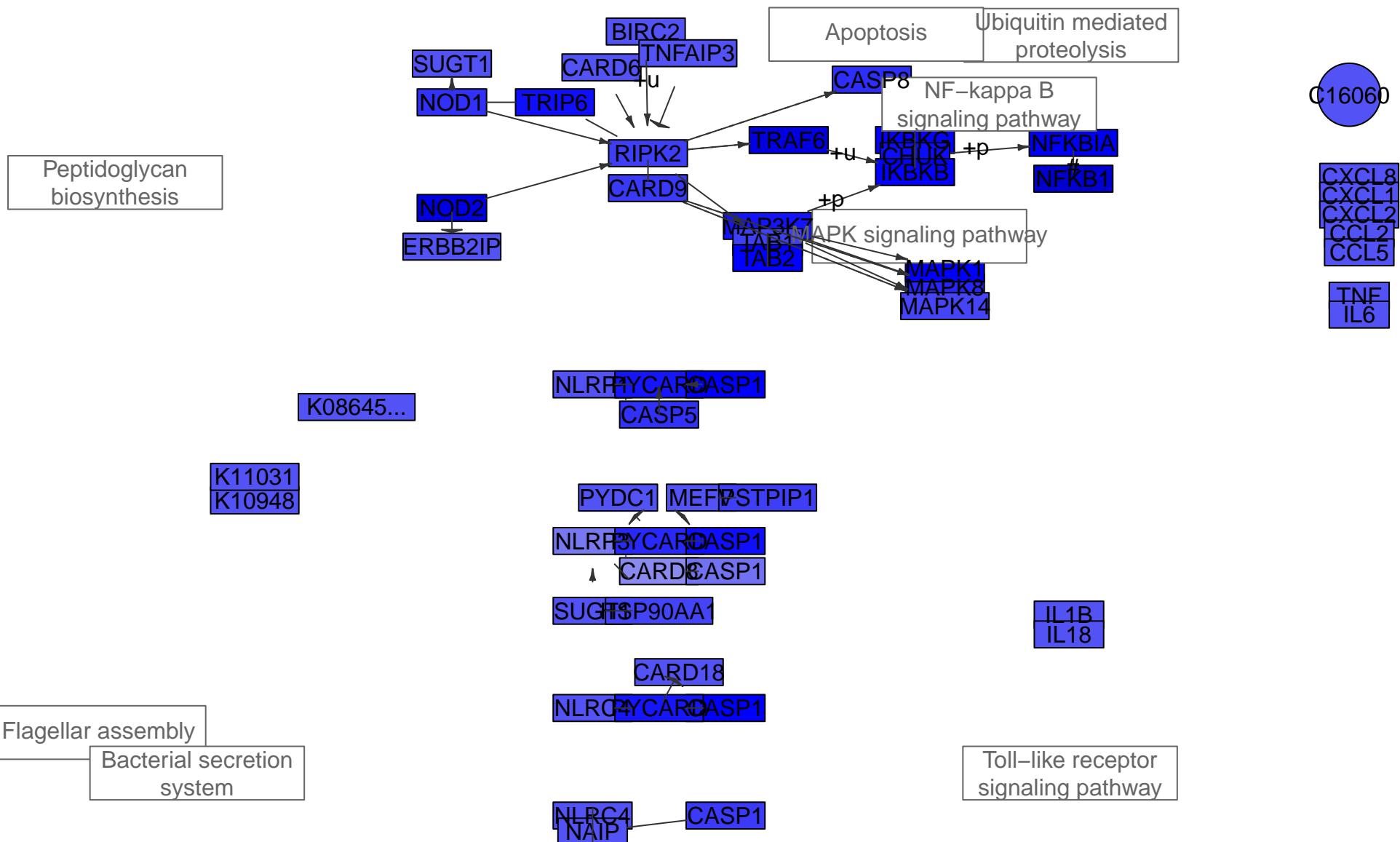
NOD-like receptor
signaling pathway
MPI-123



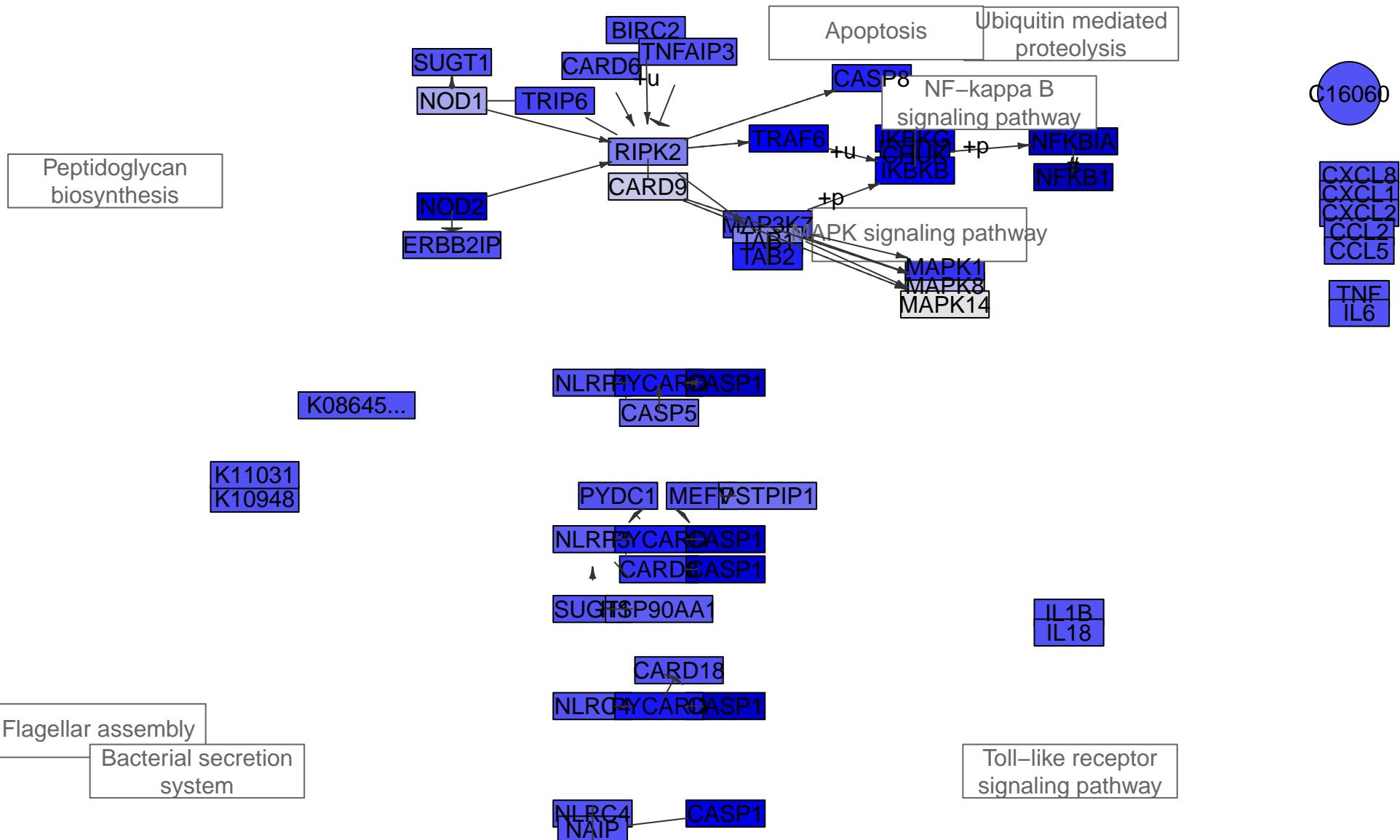
NOD-like receptor signaling pathway MPI-138



NOD-like receptor
signaling pathway
MPI-139

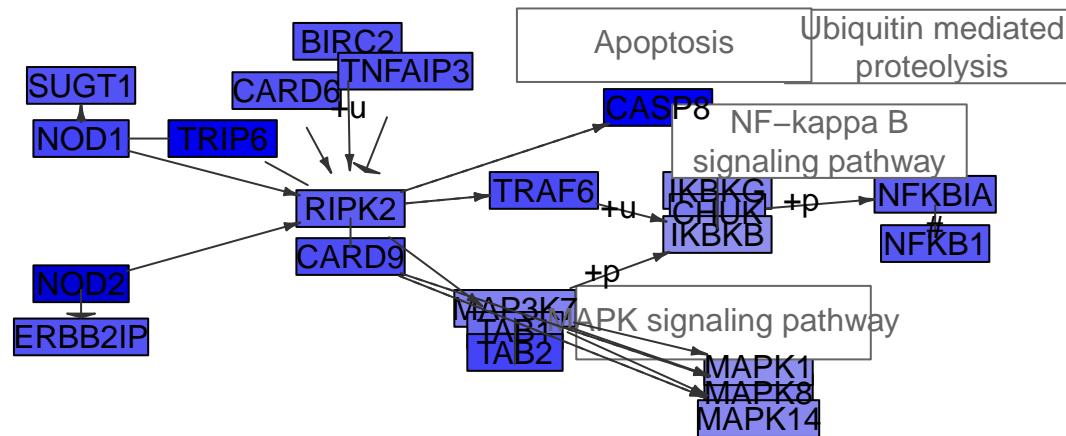


NOD-like receptor
signaling pathway
MPI-140



NOD-like receptor
signaling pathway
MPI-144

Peptidoglycan
biosynthesis



C16060
CXCL8
CXCL1
CXCL2
CCL2
CCL5
TNF
IL6

K08645...

NLRPFYCARDASP1
CASP5

K11031
K10948

PYDC1 MEFV STPIP1
NLRPFYCARDASP1
CARD8ASP1

Flagellar assembly
Bacterial secretion system

SUGT1SP90AA1

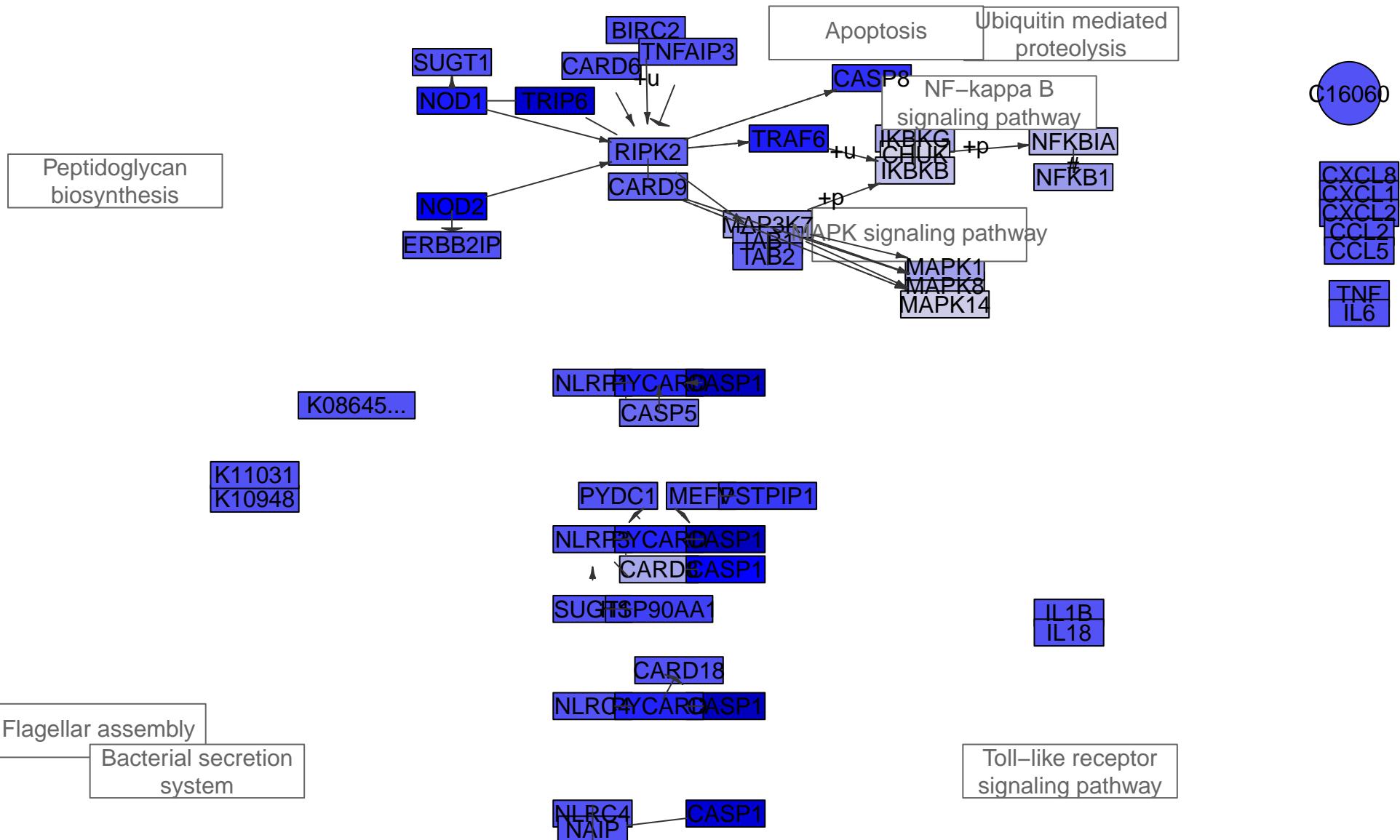
IL1B
IL18

CARD18
NLRPFYCARDASP1

Toll-like receptor
signaling pathway

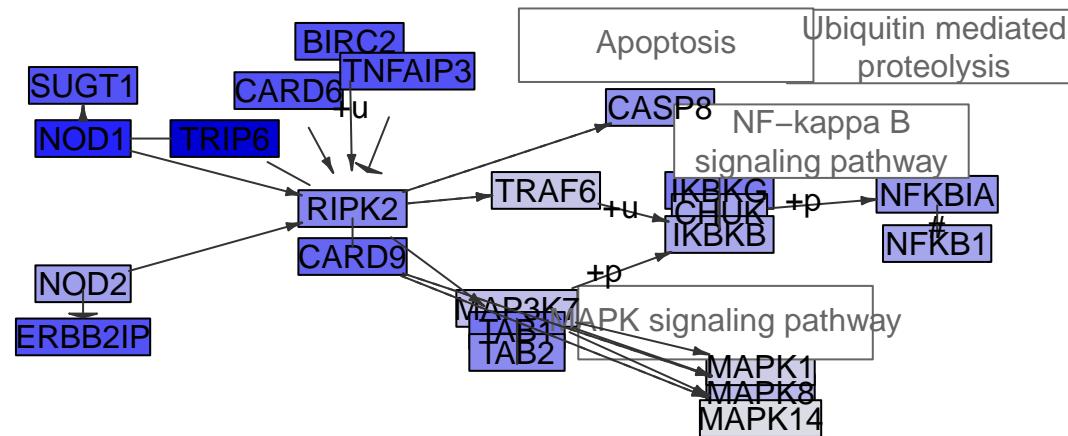
NLRPF4A
NAIP
CASP1

NOD-like receptor
signaling pathway
MPI-147



NOD-like receptor
signaling pathway
MPI-171

Peptidoglycan
biosynthesis



C16060
CXCL8
CXCL1
CXCL2
CCL2
CCL5
TNF
IL6

K08645...

NLRP3YCARDASP1
CASP5

K11031
K10948

PYDC1 MEFV PSTPIP1
NLRP3YCARDASP1
CARD8CASP1

Flagellar assembly
Bacterial secretion system

IL1B
IL18

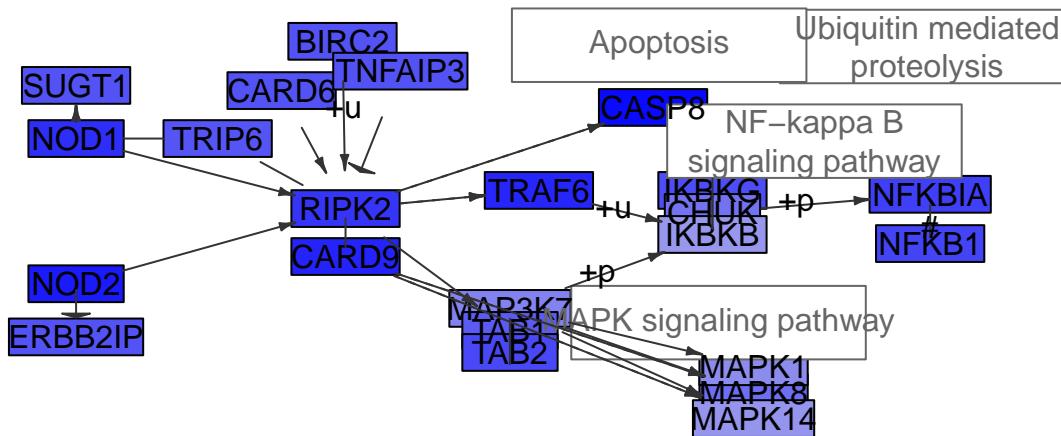
SUGT1 SP90AA1
CARD18
NLRP3YCARDASP1

Toll-like receptor
signaling pathway

NLRP4 NAIP
CASP1

NOD-like receptor
signaling pathway
MPI-172

Peptidoglycan
biosynthesis



K08645...

NLRP3PYCARD8CASP1
CASP5

K11031
K10948

PYDC1 MEF17 STPIP1
NLRP3PYCARD8CASP1
CASP5

Flagellar assembly
Bacterial secretion system

SUGT1 SP90AA1

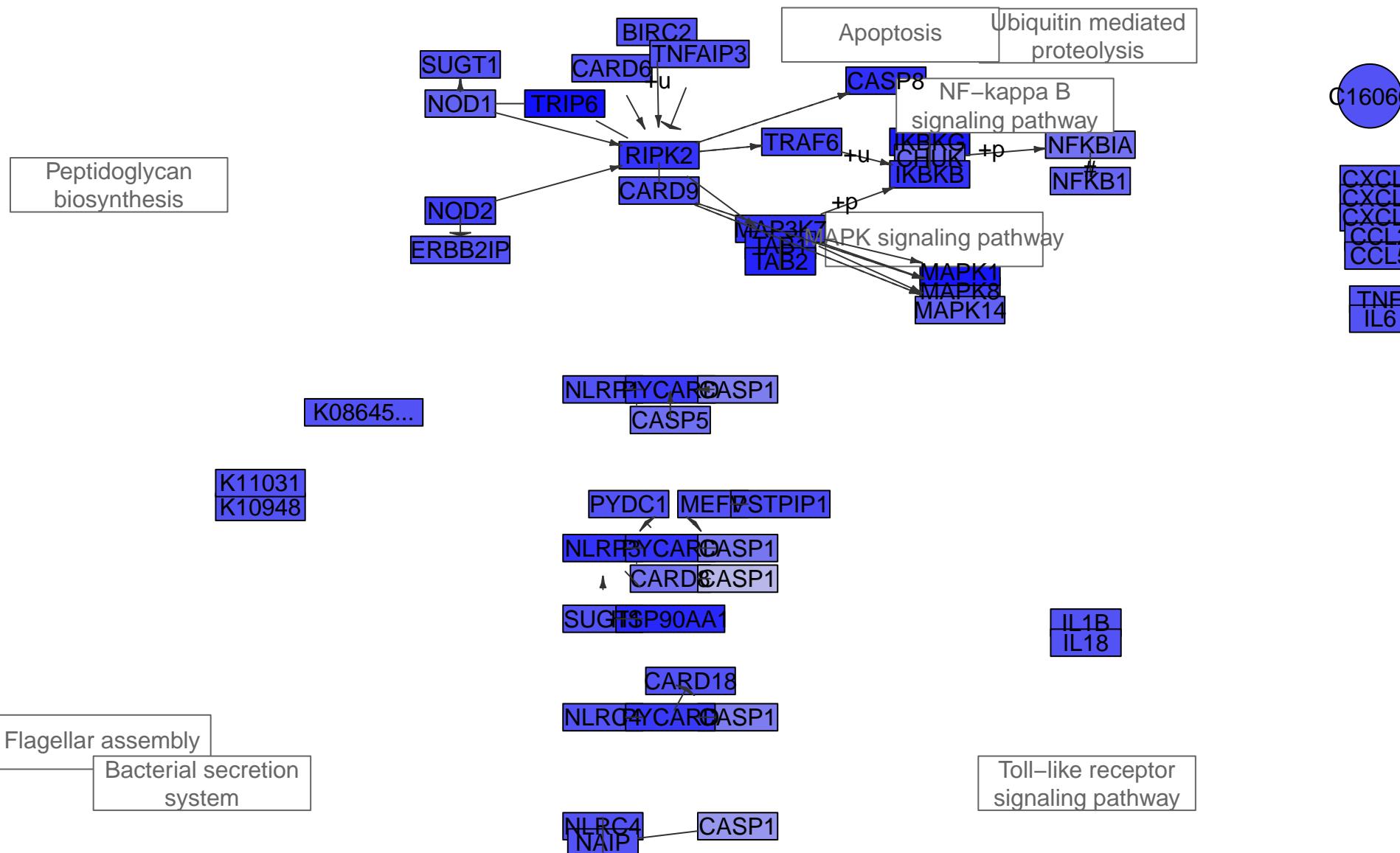
IL1B
IL18

CARD18
NLRP3PYCARD8CASP1

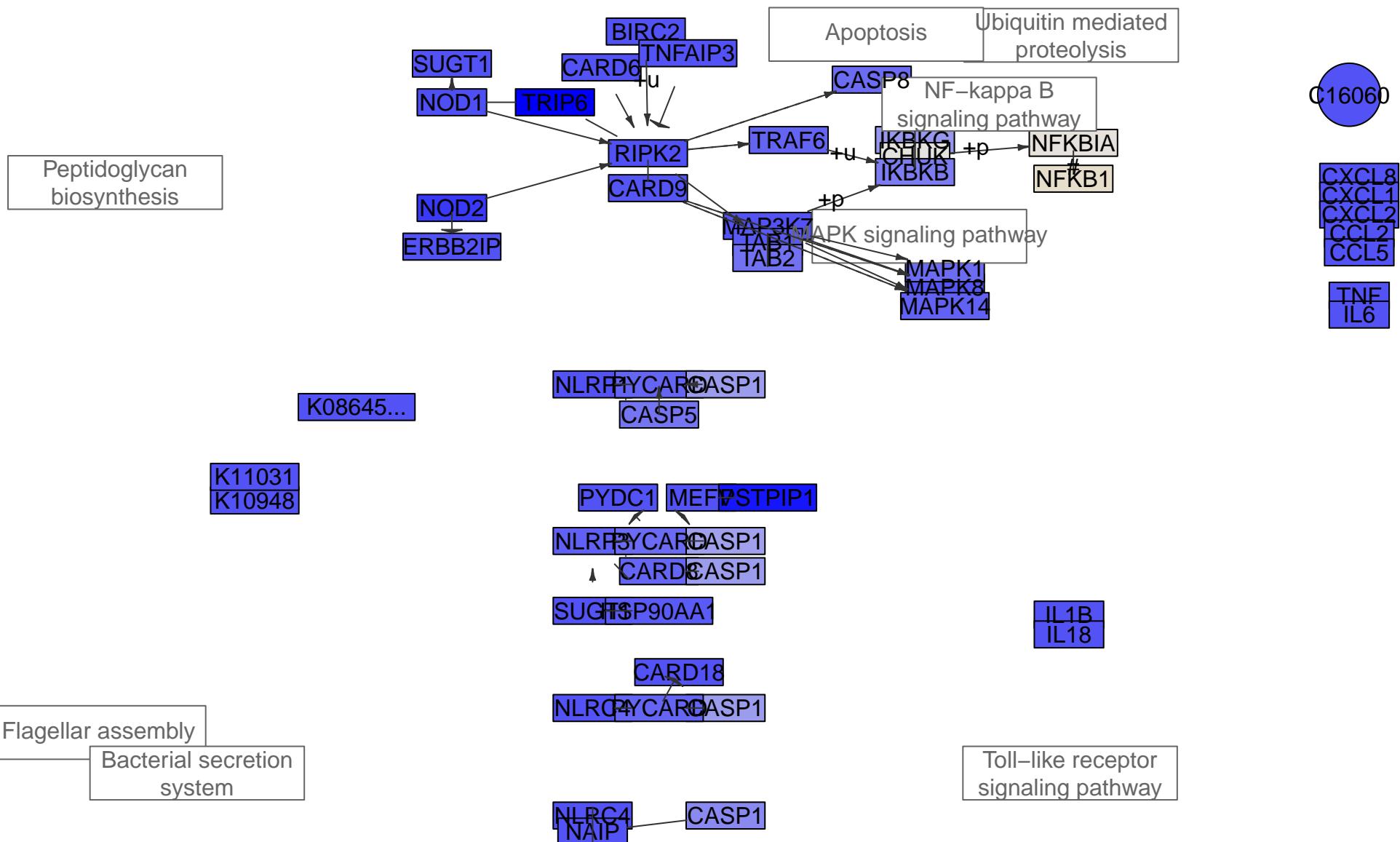
Toll-like receptor
signaling pathway

NLRP4 NAIP
CASP1

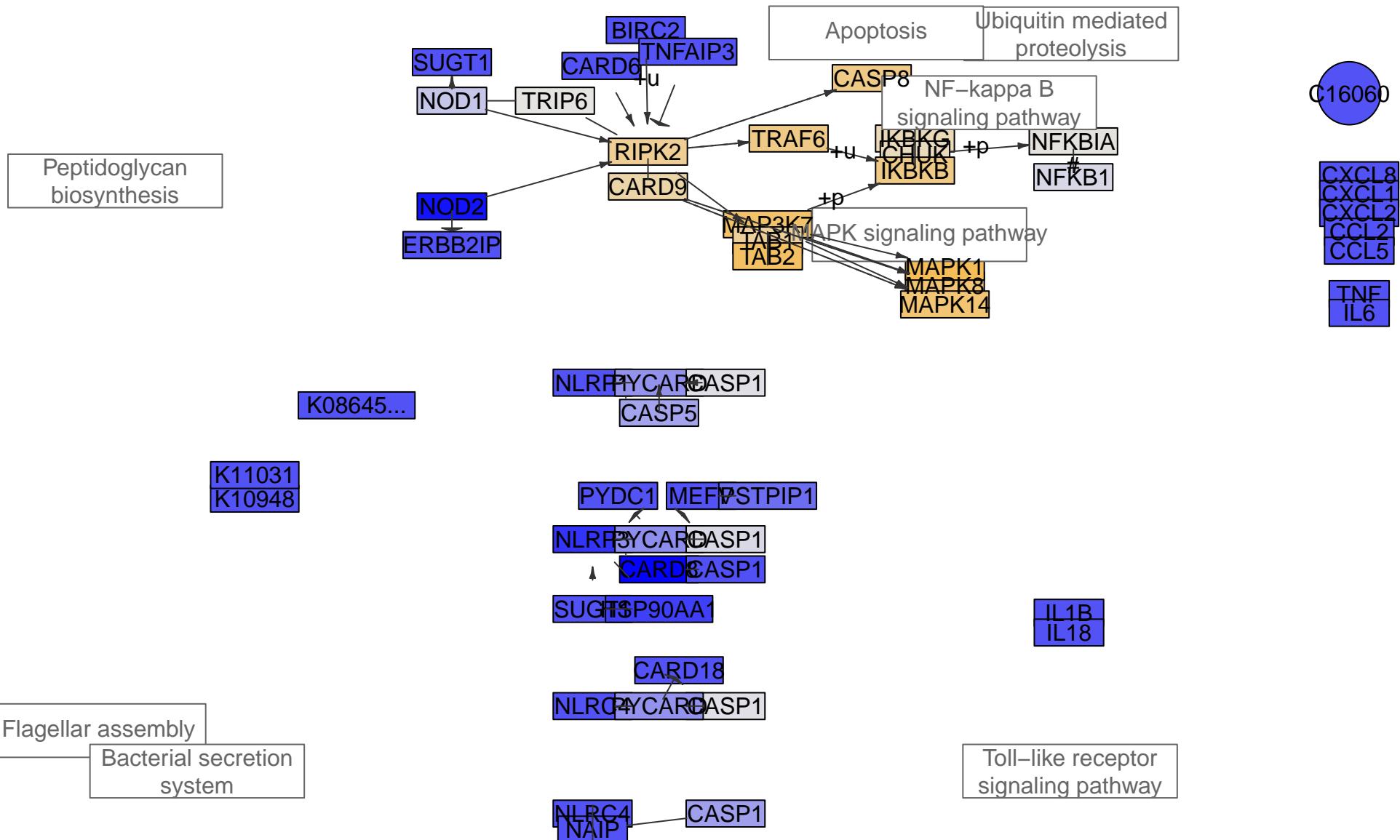
NOD-like receptor
signaling pathway
MPI-007



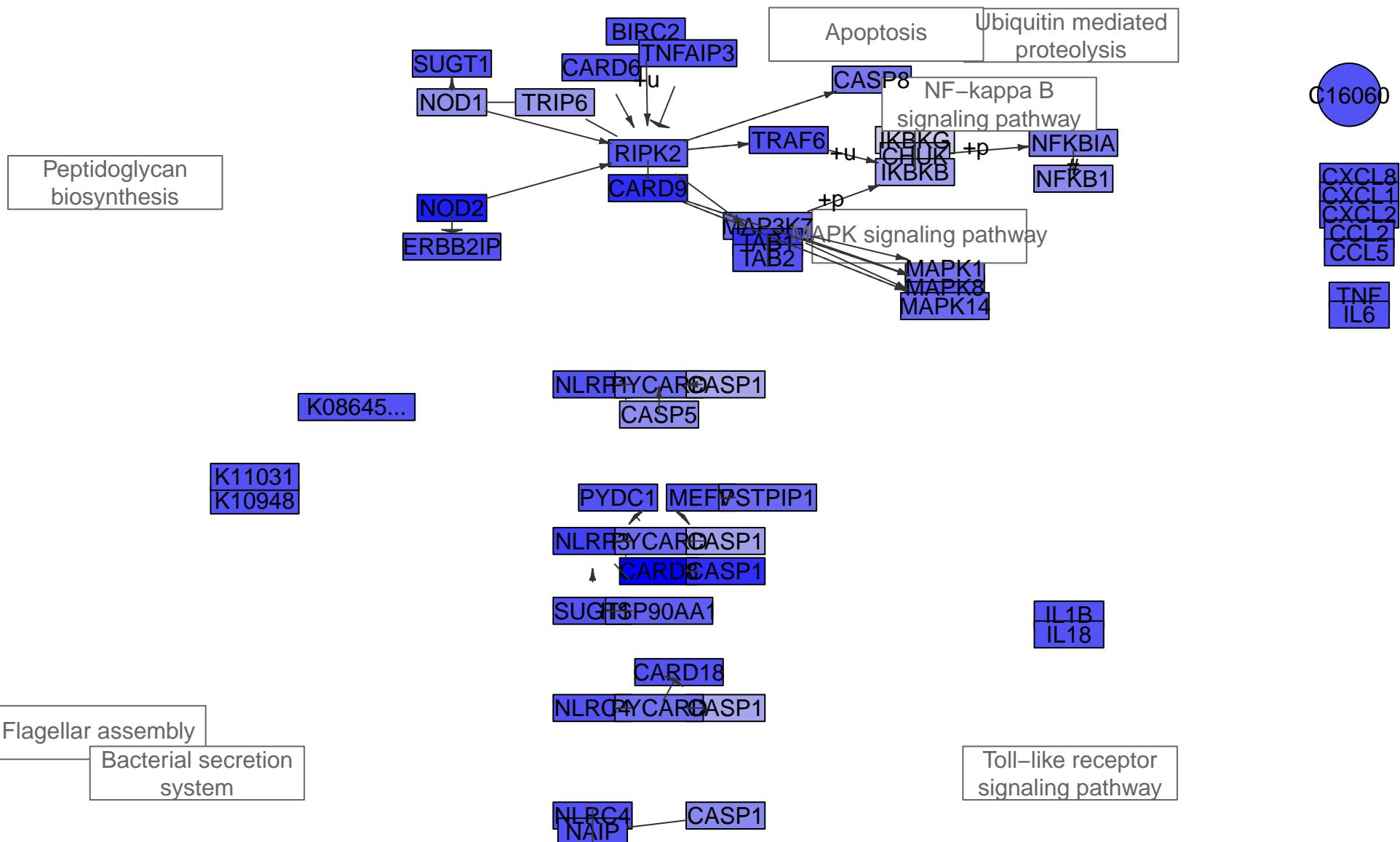
NOD-like receptor
signaling pathway
MPI-011



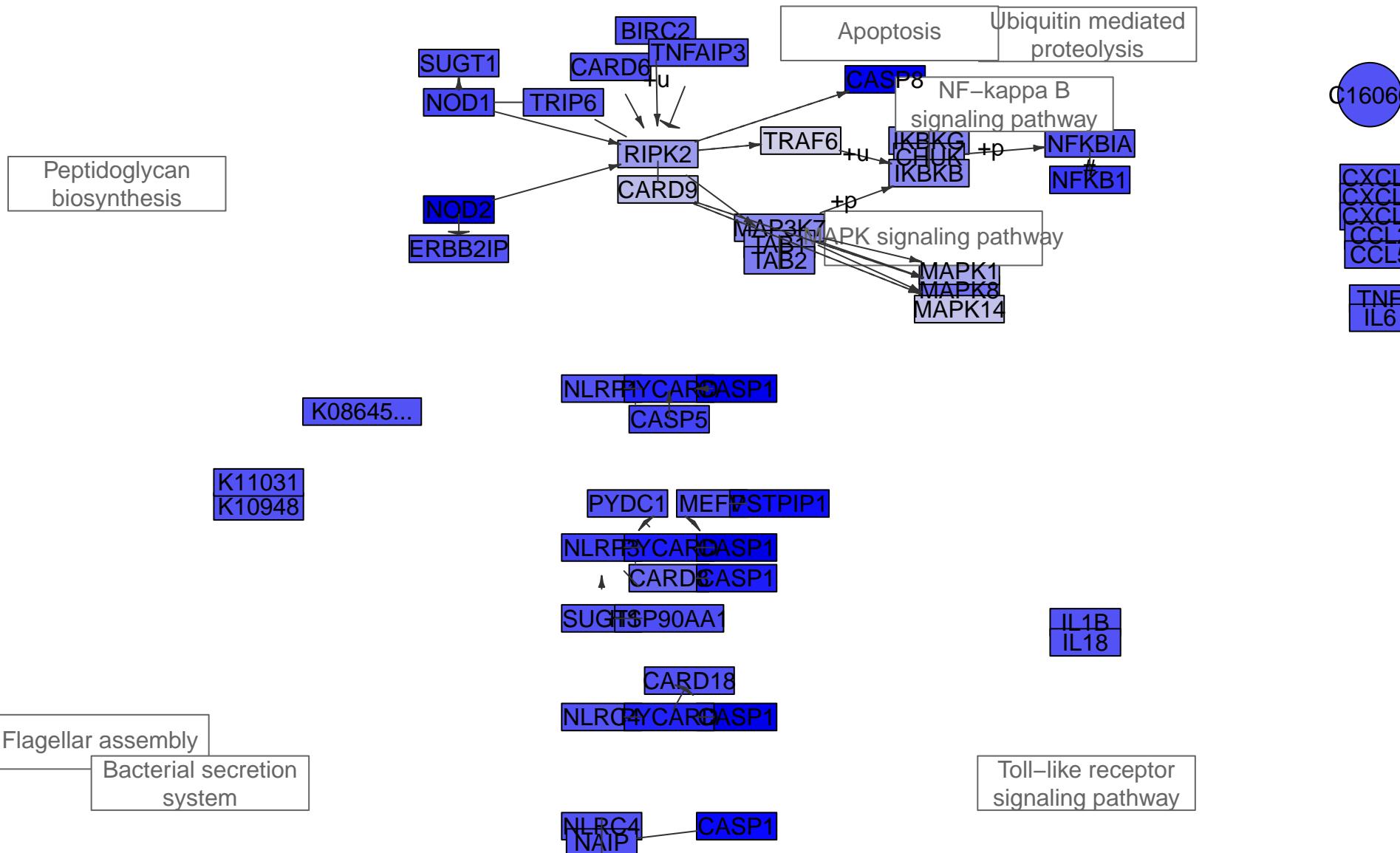
NOD-like receptor
signaling pathway
MPI-024



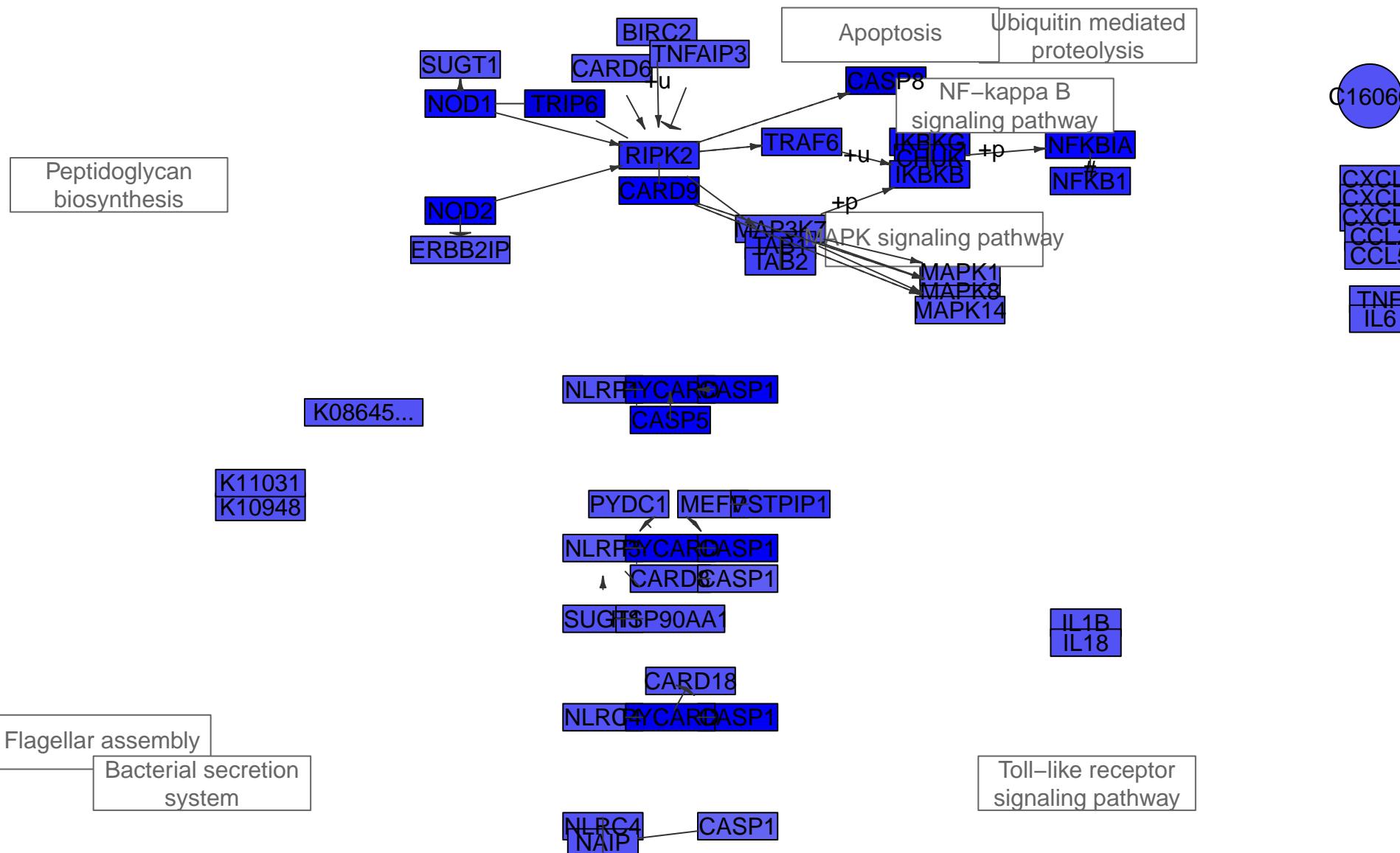
NOD-like receptor
signaling pathway
MPI-026



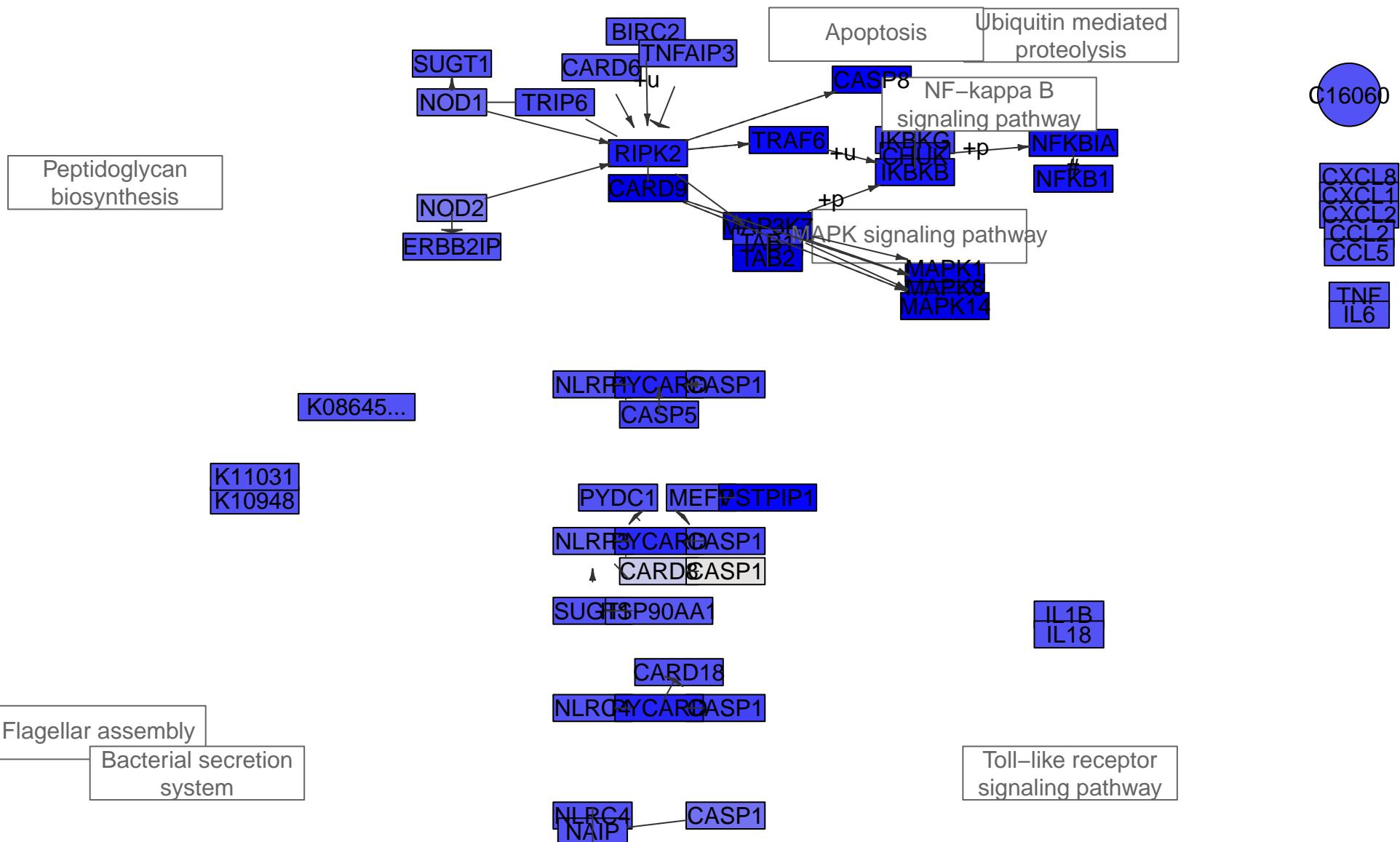
NOD-like receptor
signaling pathway
MPI-036



NOD-like receptor
signaling pathway
MPI-037

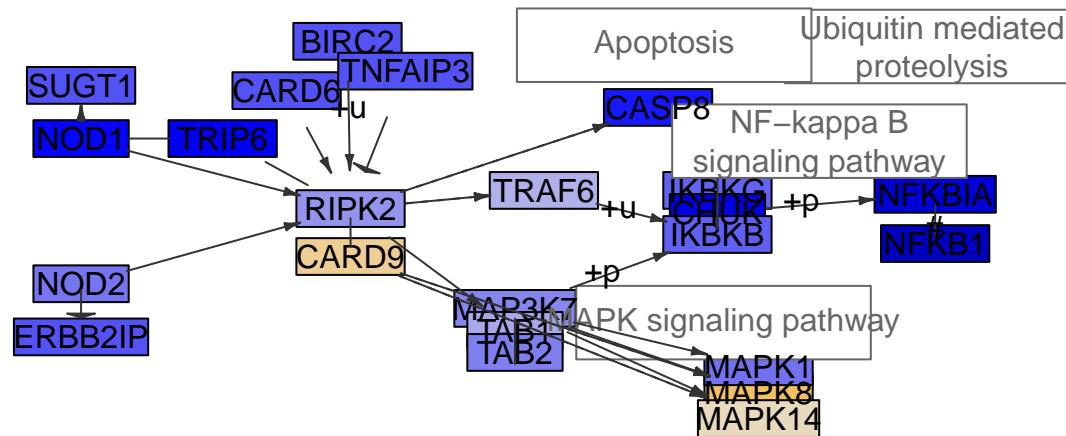


NOD-like receptor
signaling pathway
MPI-038



NOD-like receptor
signaling pathway
MPI-041

Peptidoglycan
biosynthesis



C16060
CXCL8
CXCL1
CXCL2
CCL2
CCL5
TNF
IL6

K08645...

NLRP3PYCARD8CASP1
CASP5

K11031
K10948

PYDC1 MEFV STPIP1
NLRP3PYCARD8CASP1
↓
CARD8CASP1

Flagellar assembly
Bacterial secretion system

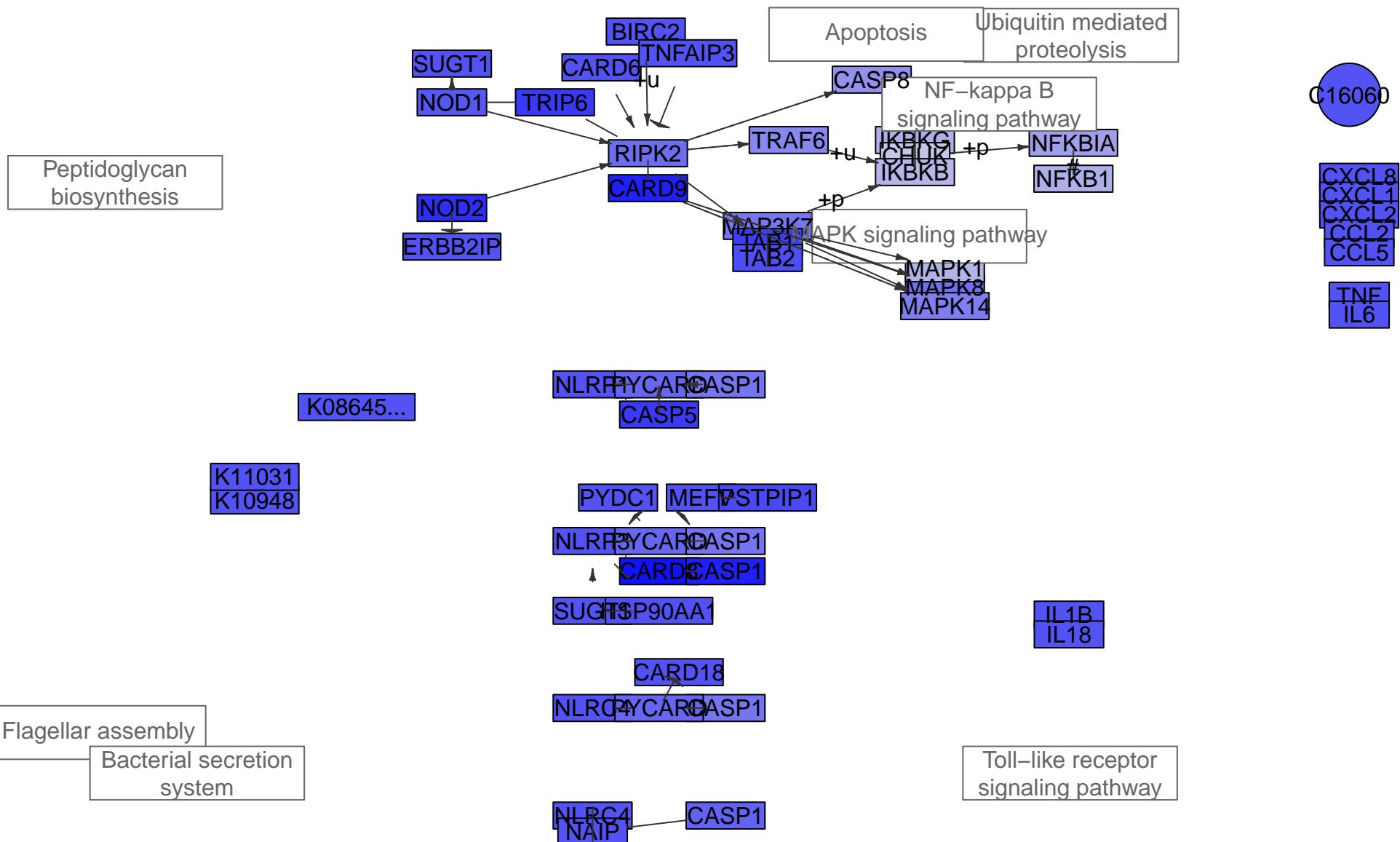
IL1B
IL18

SUGT1 SP90AA1
CARD18
NLRP4PYCARD8CASP1

Toll-like receptor
signaling pathway

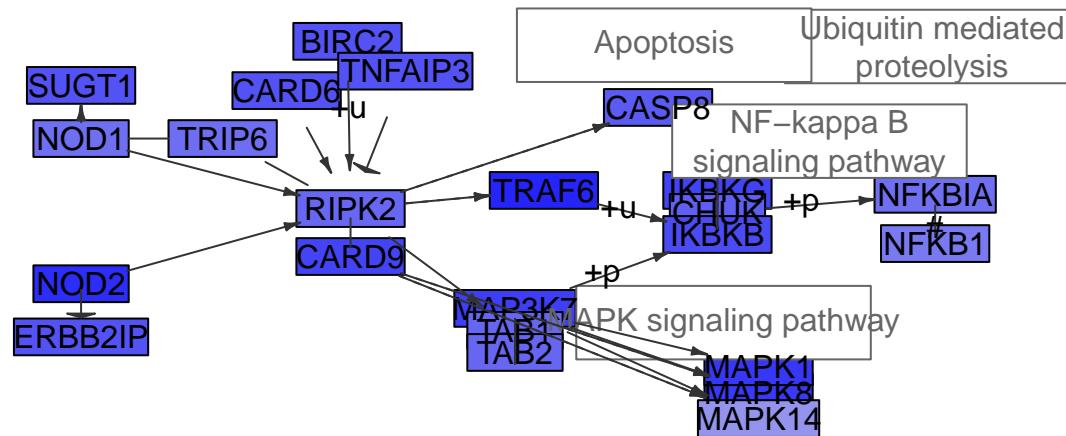
NLRP4 NAIP
CASP1

NOD-like receptor
signaling pathway
MPI-046



NOD-like receptor
signaling pathway
MPI=050

Peptidoglycan
biosynthesis



C16060
CXCL8
CXCL1
CXCL2
CCL2
CCL5
TNF
IL6

K08645...

NLRP3YCARDASP1
CASP5

K11031
K10948

PYDC1 MEF17 STPIP1
NLRP3YCARDASP1
CARD8CASP1

Flagellar assembly
Bacterial secretion system

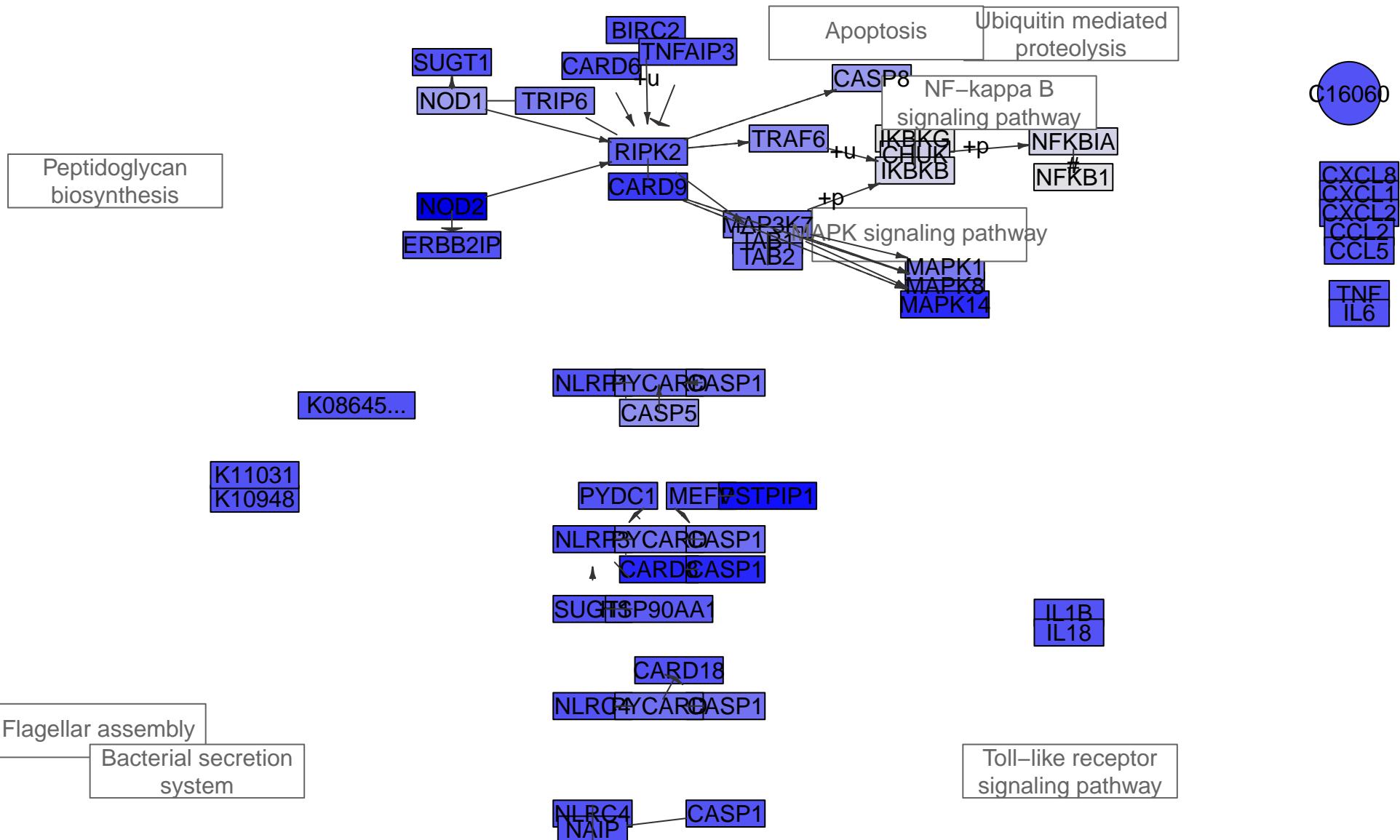
IL1B
IL18

SUGT1\$P90AA1
CARD18
NLRP3YCARDASP1

Toll-like receptor
signaling pathway

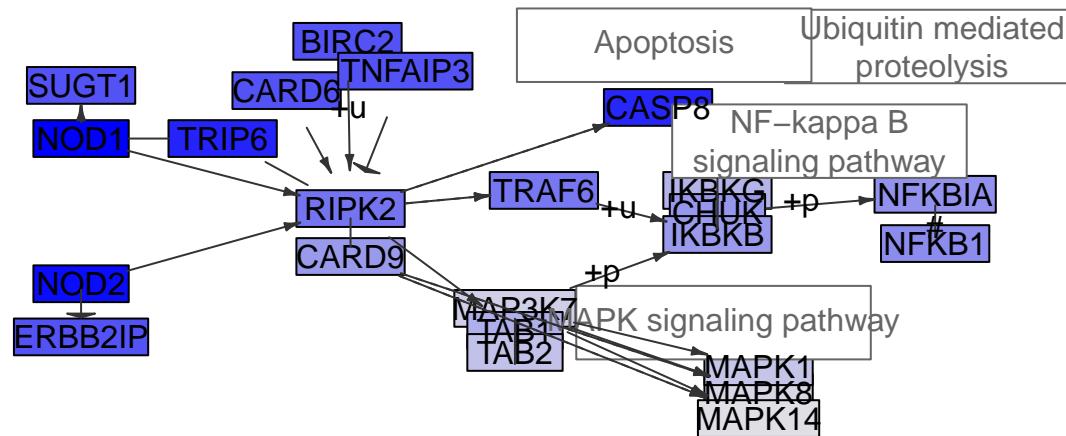
NLRP4 NAIP
CASP1

NOD-like receptor
signaling pathway
MPI-051



NOD-like receptor
signaling pathway
MPI-054

Peptidoglycan
biosynthesis



C16060
CXCL8
CXCL1
CXCL2
CCL2
CCL5
TNF
IL6

K08645...

NLRP3YCARDASP1
CASP5

K11031
K10948

PYDC1 MEFV STPIP1
NLRP3YCARDASP1
CARD8CASP1

Flagellar assembly
Bacterial secretion system

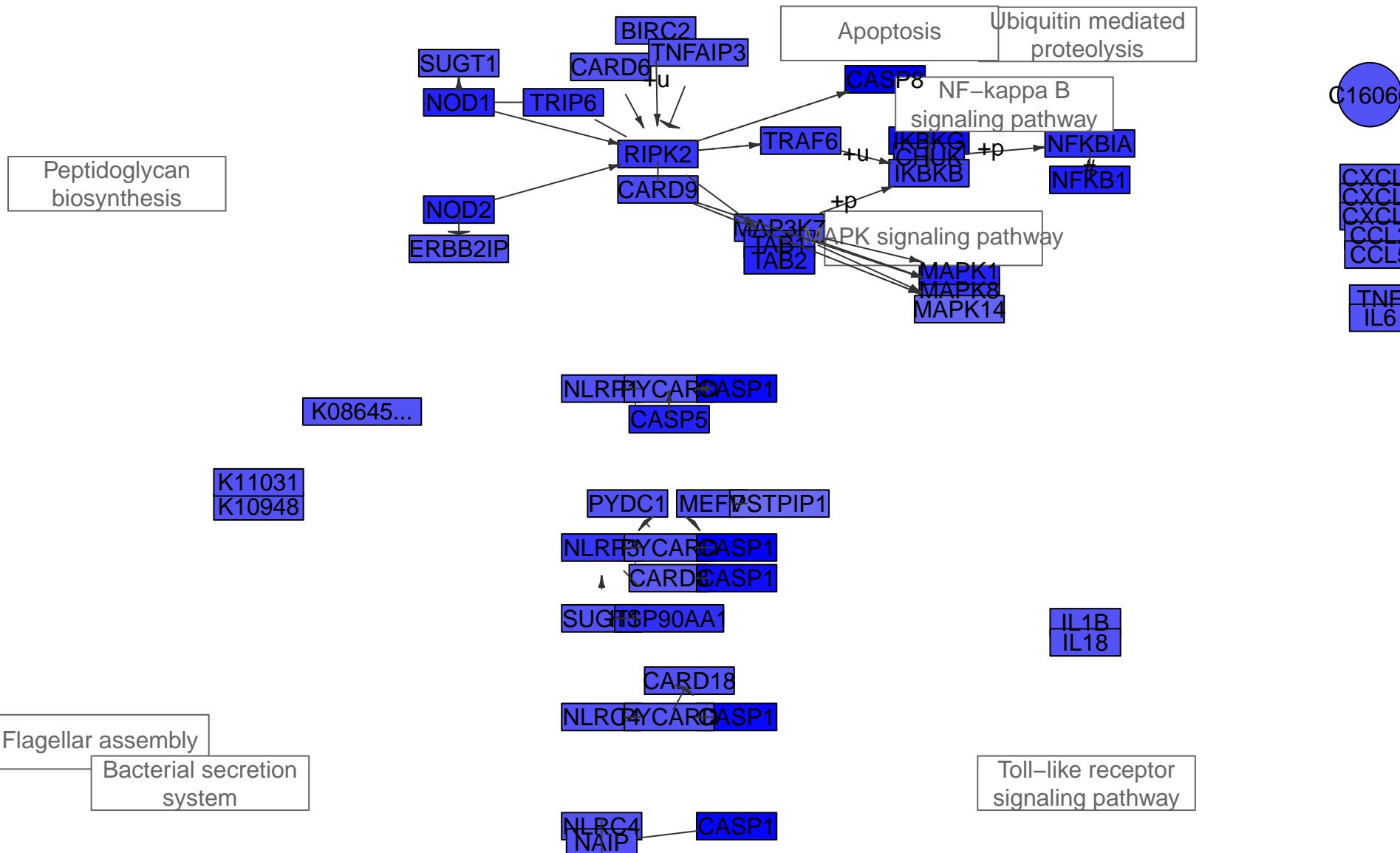
IL1B
IL18

SUGT1 SP90AA1
CARD18
NLRP3YCARDASP1

Toll-like receptor
signaling pathway

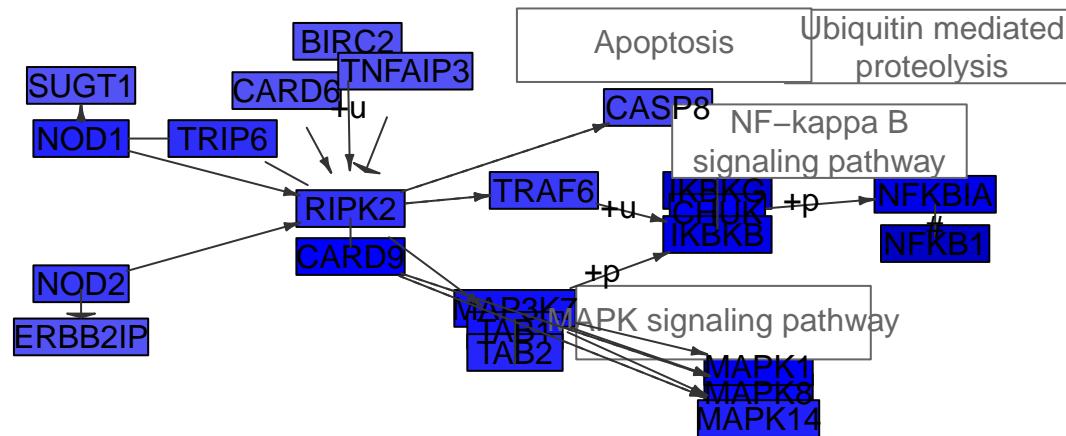
NLRP4 NAIP
CASP1

NOD-like receptor
signaling pathway
MPI-059



NOD-like receptor
signaling pathway
MPI-060

Peptidoglycan
biosynthesis



C16060
CXCL8
CXCL1
CXCL2
CCL2
CCL5
TNF
IL6

K08645...

NLRP3YCARD8CASP1
CASP5

K11031
K10948

PYDC1 MEFV PSTPIP1
NLRP3YCARD8CASP1
CARD8CASP1

Flagellar assembly
Bacterial secretion system

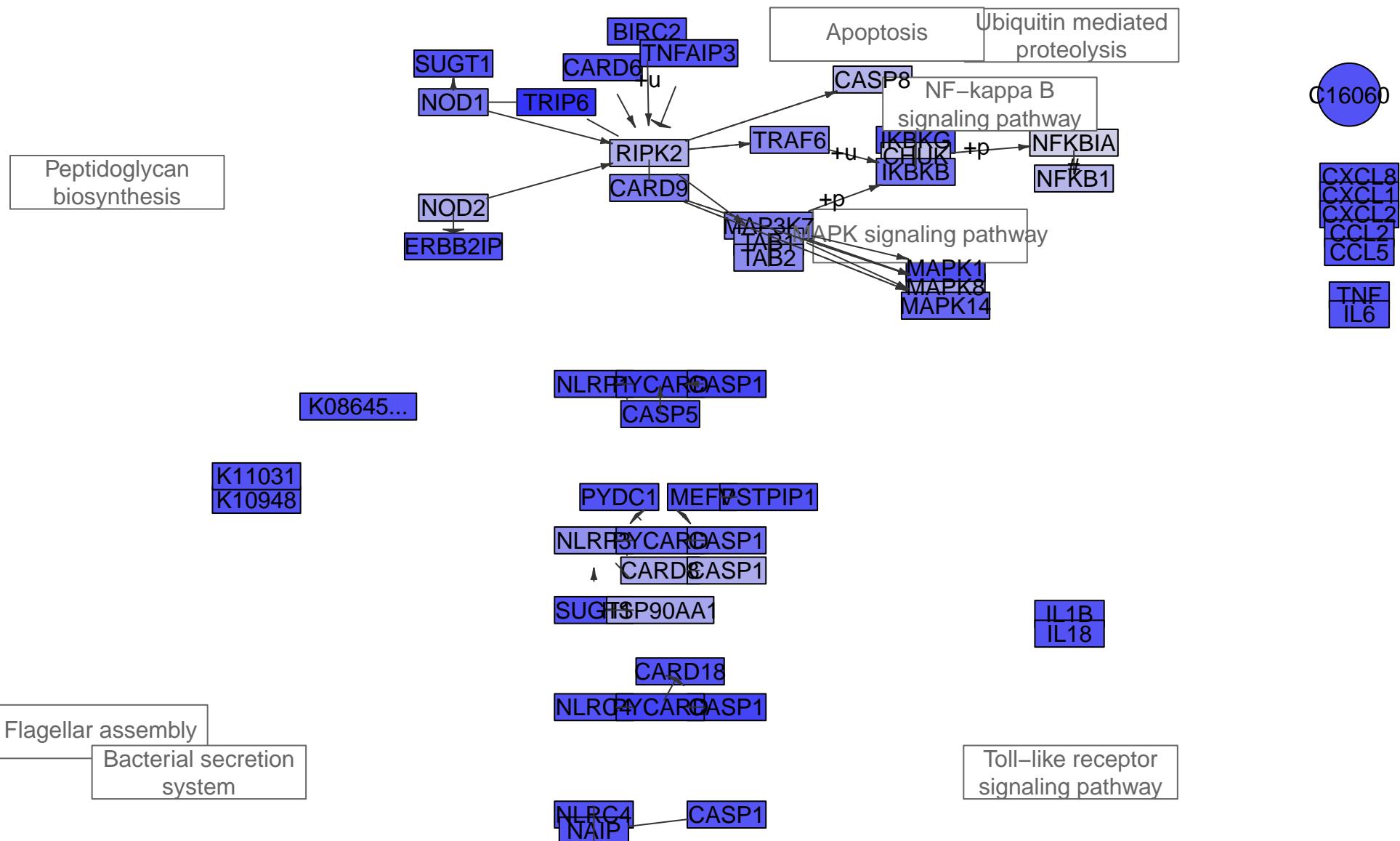
IL1B
IL18

SUGT1 SP90AA1
CARD18
NLRP3YCARD8CASP1

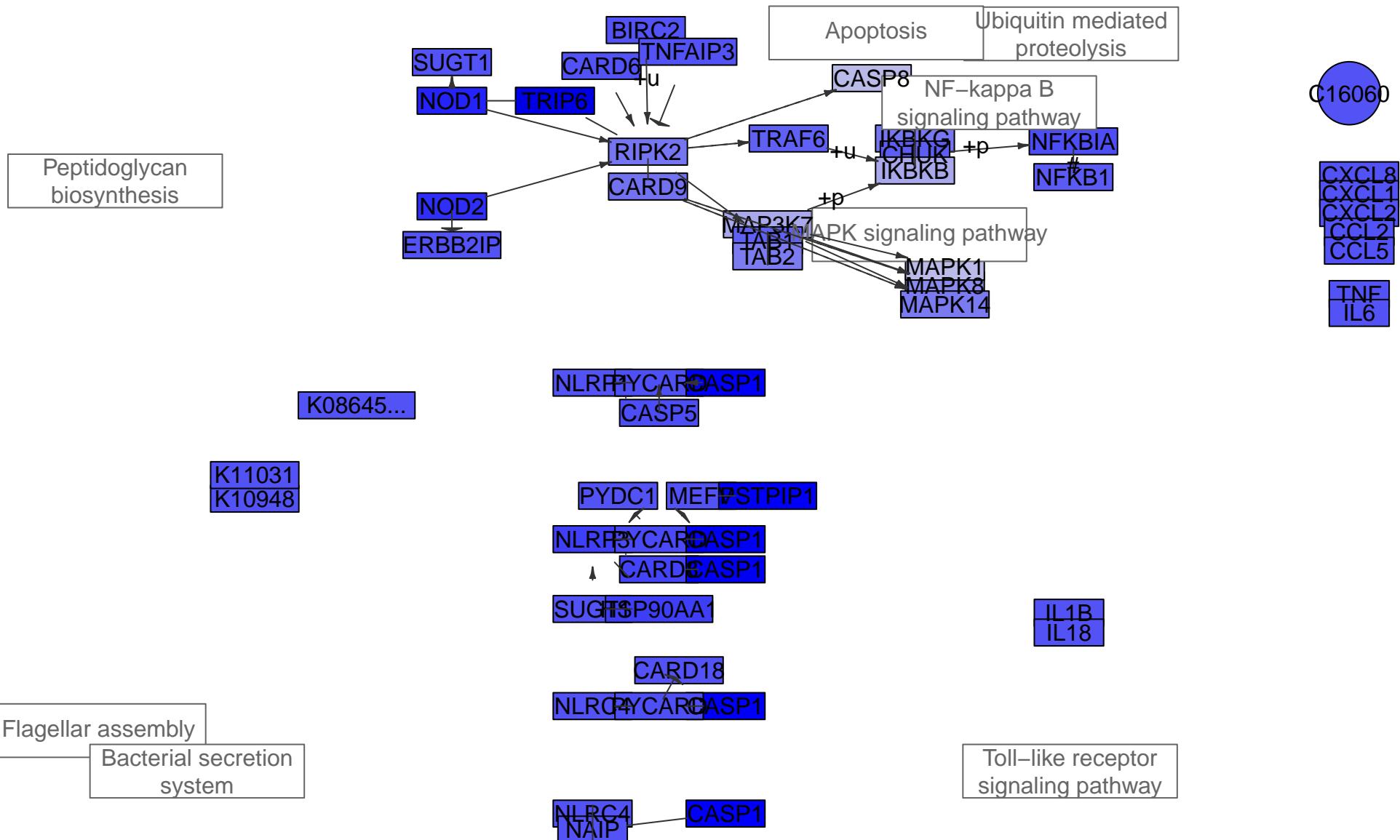
Toll-like receptor
signaling pathway

NLRP4 NAIP
CASP1

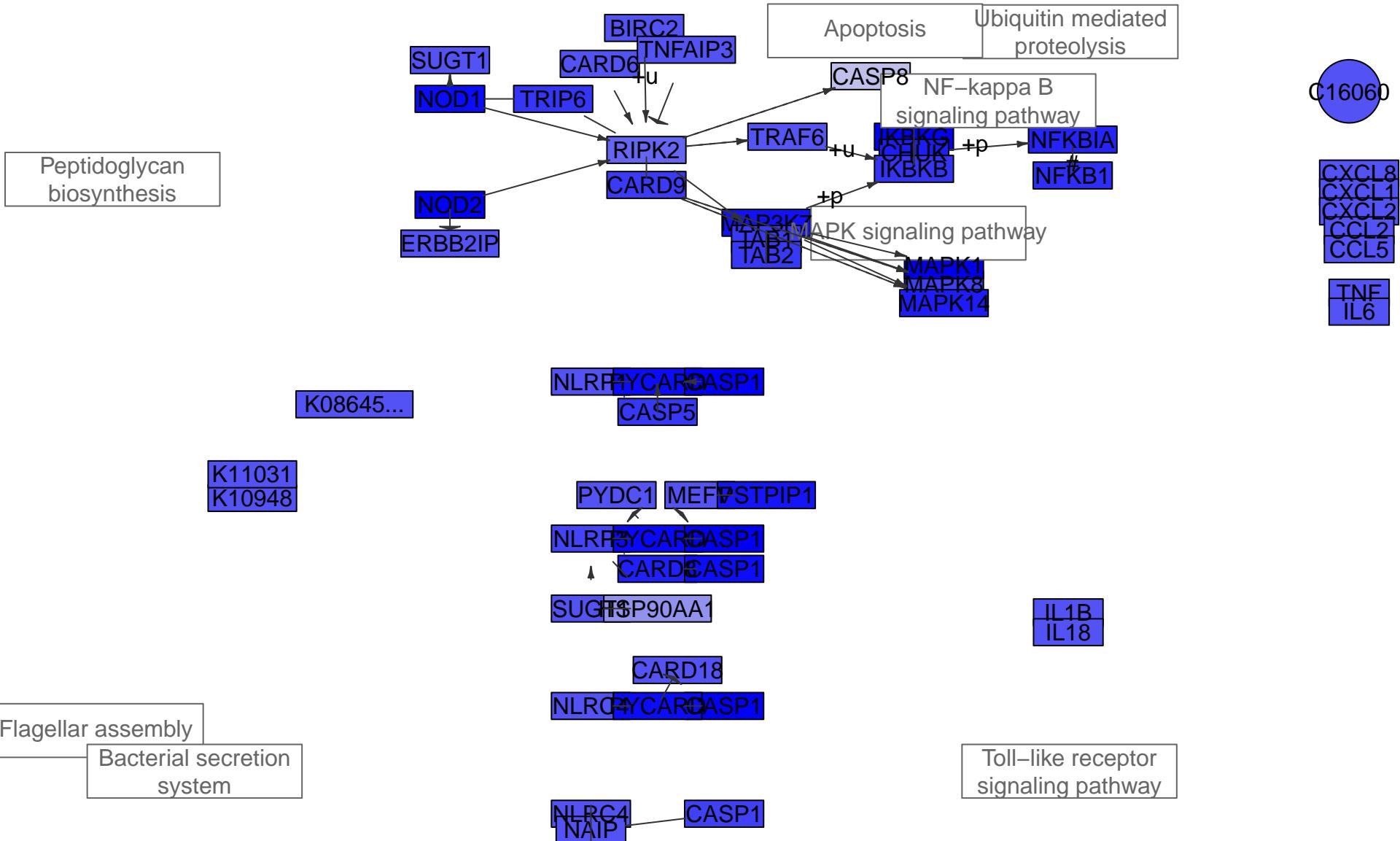
NOD-like receptor
signaling pathway
MPI-061



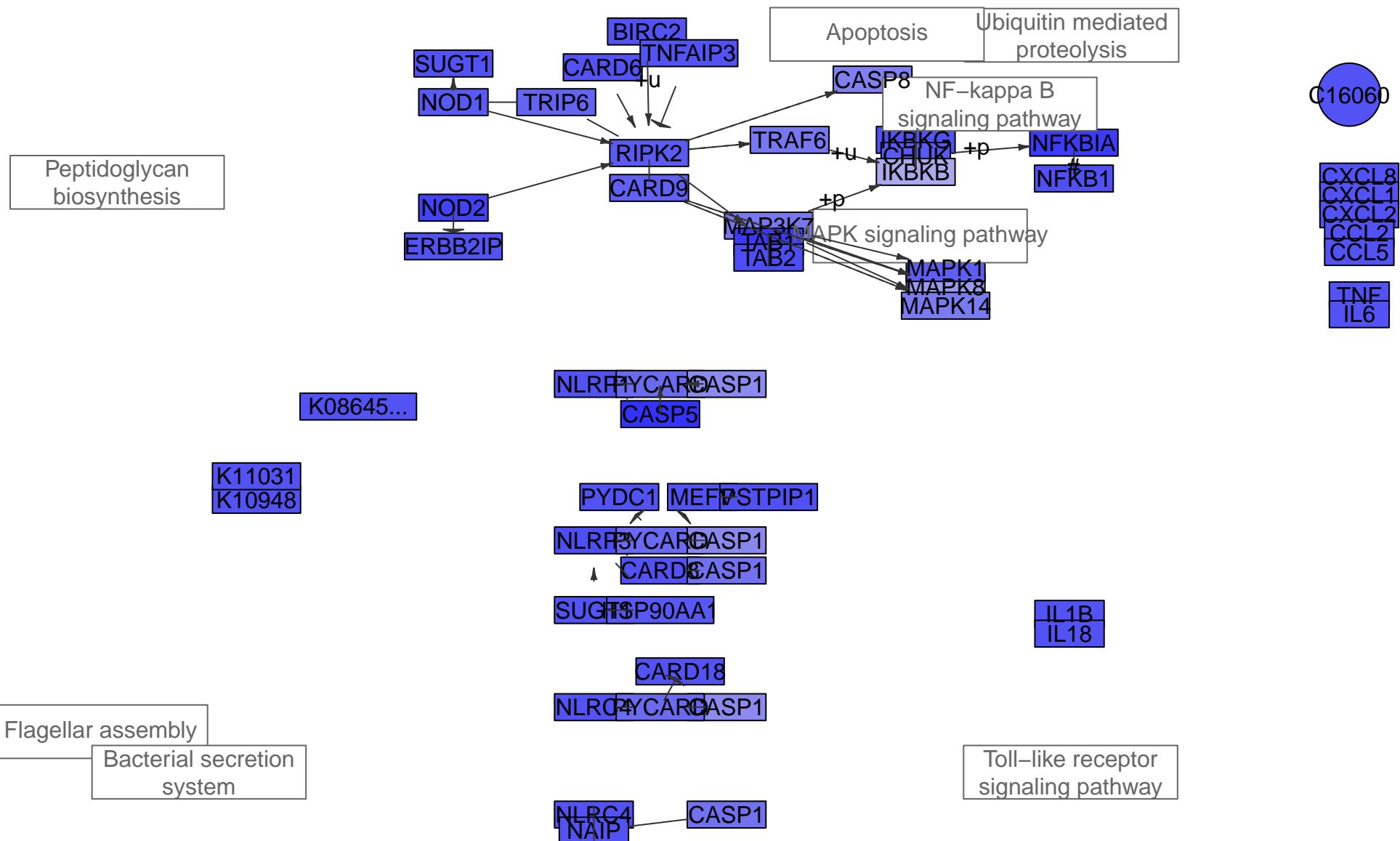
NOD-like receptor
signaling pathway
MPI-064



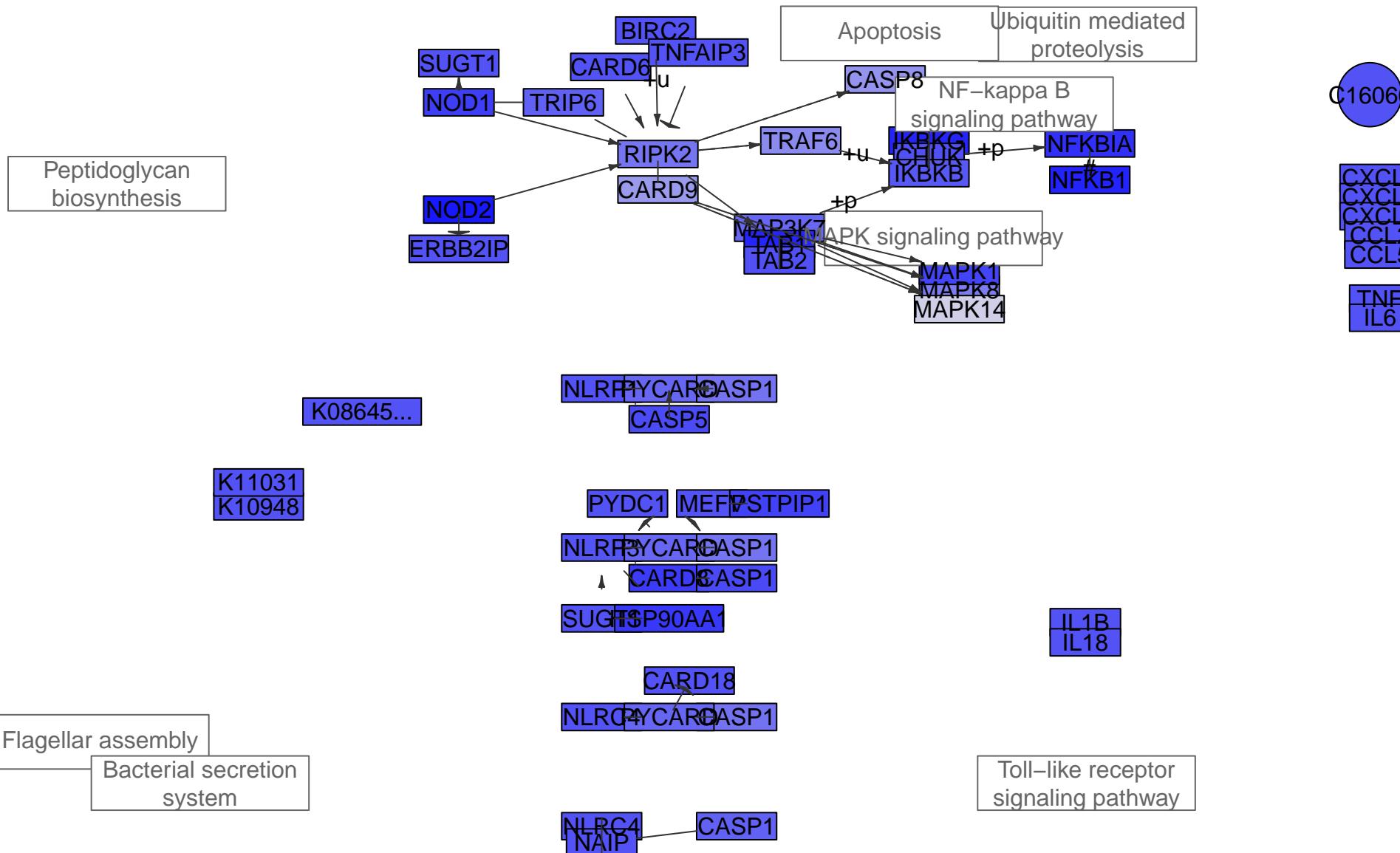
NOD-like receptor
signaling pathway
MPI-070



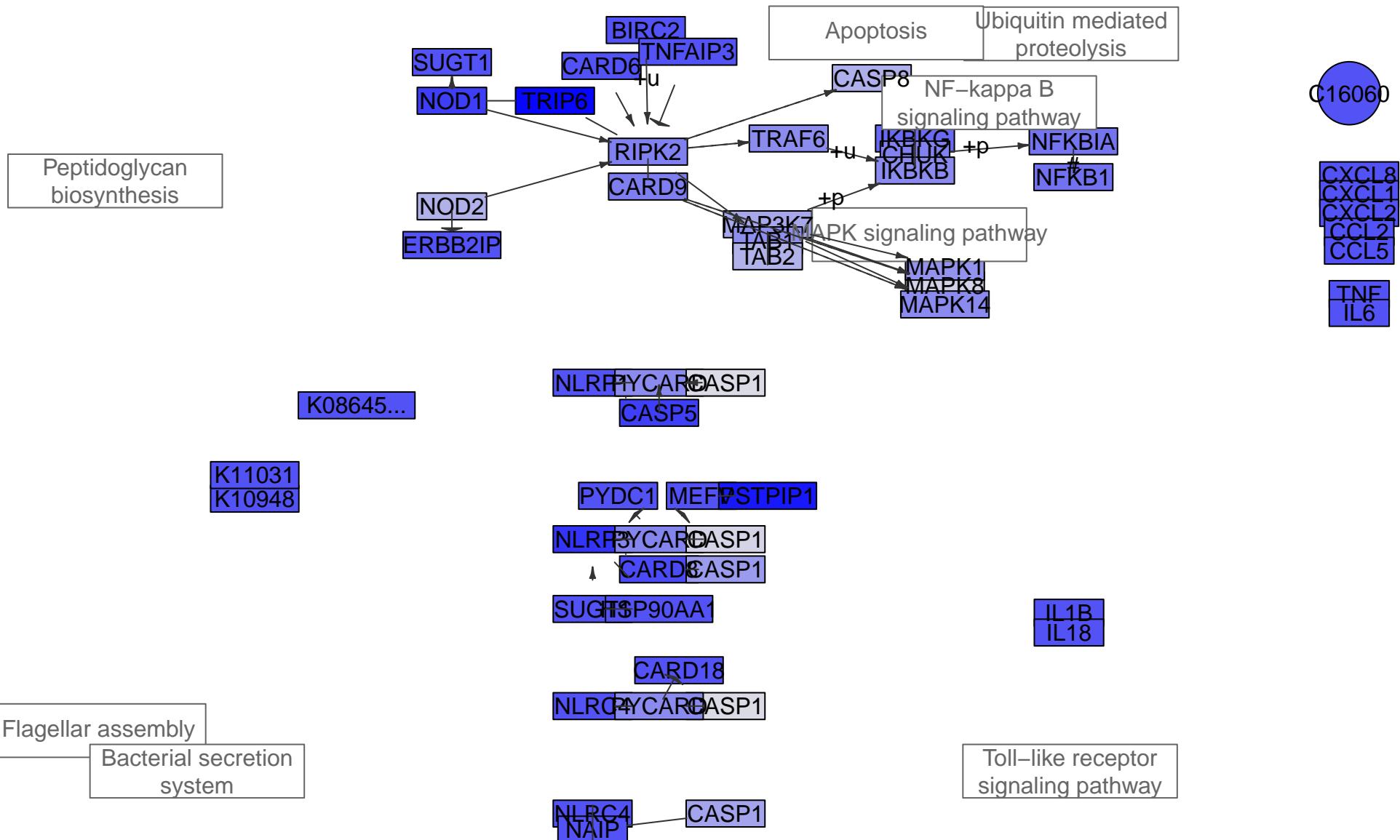
NOD-like receptor
signaling pathway
MPI-072



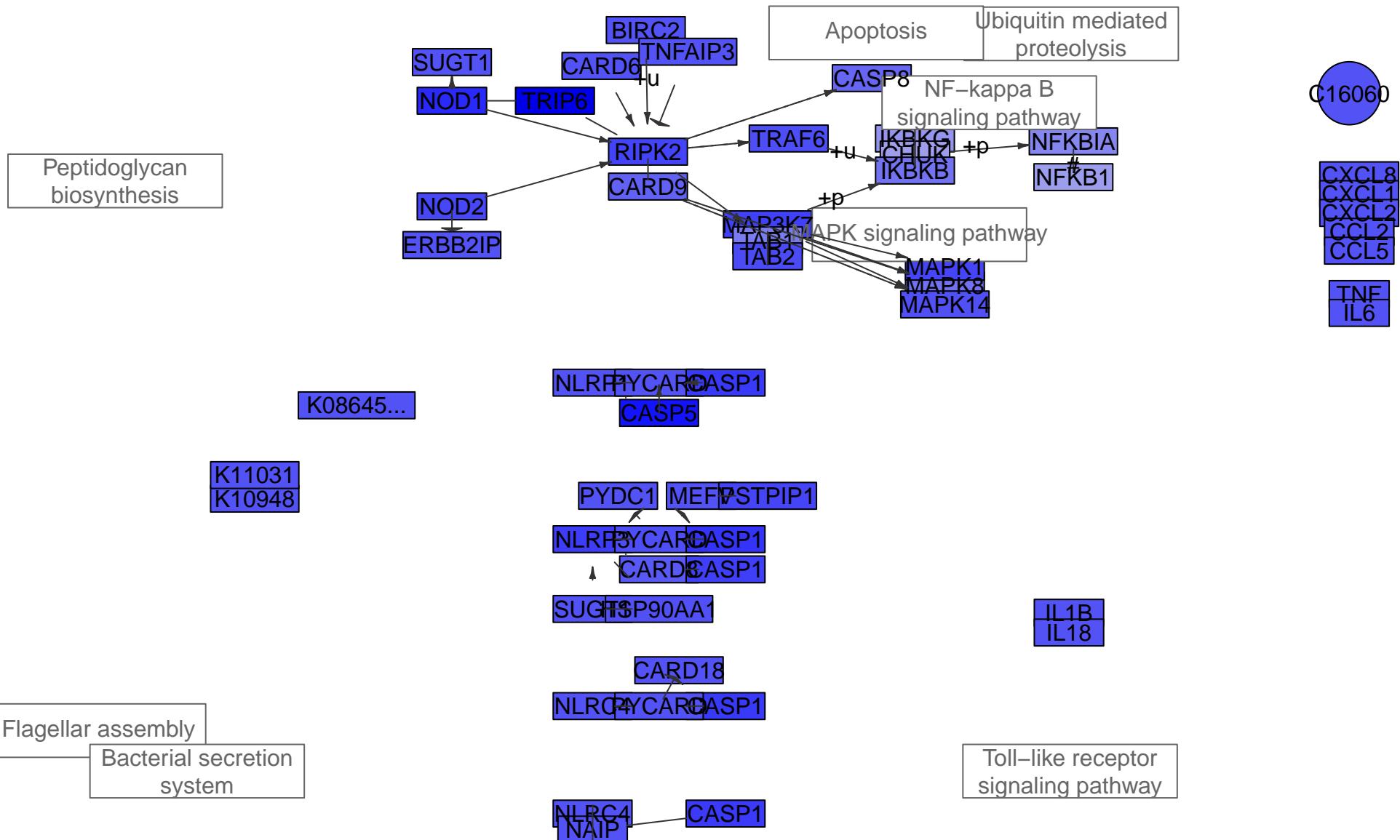
NOD-like receptor
signaling pathway
MPI-093



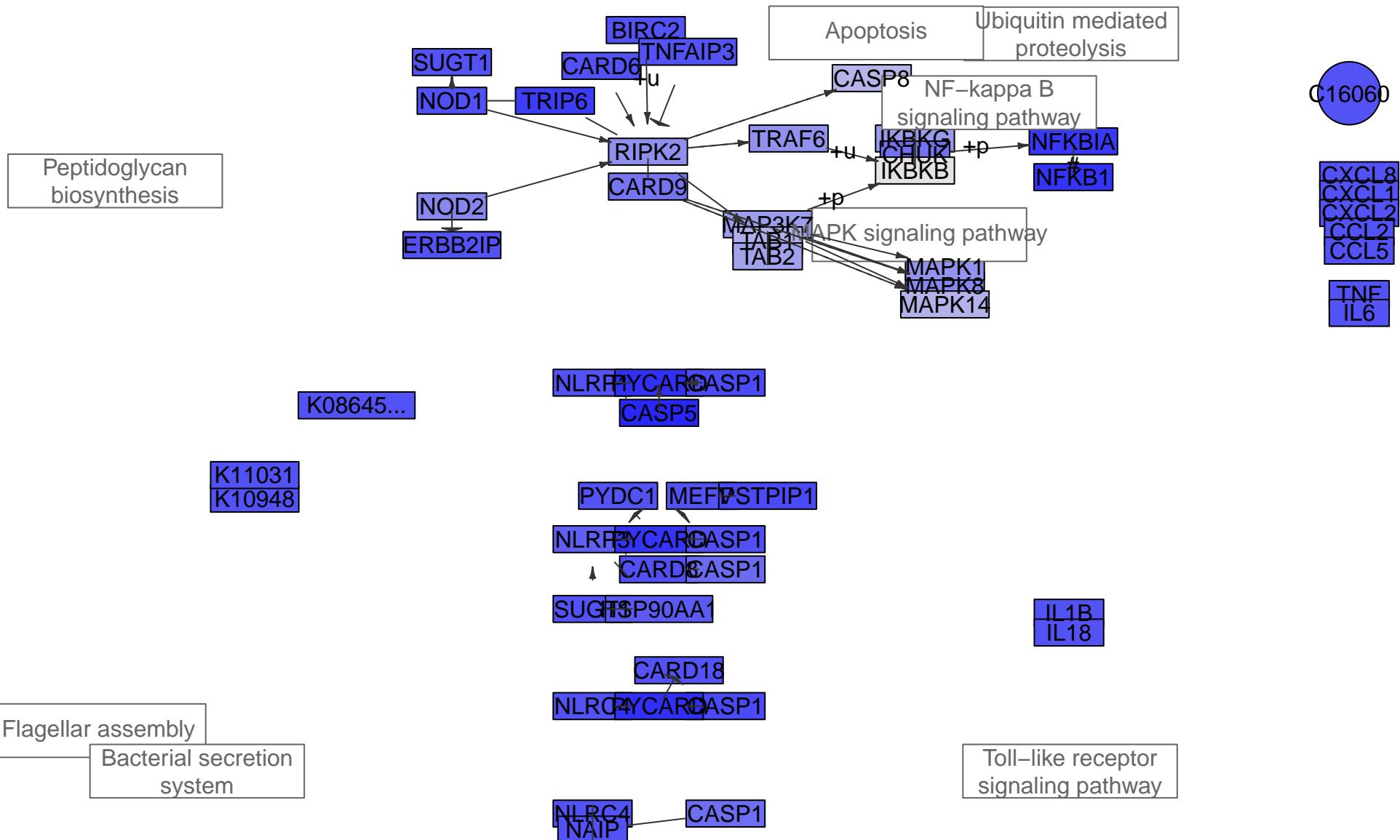
NOD-like receptor
signaling pathway
MPI-094



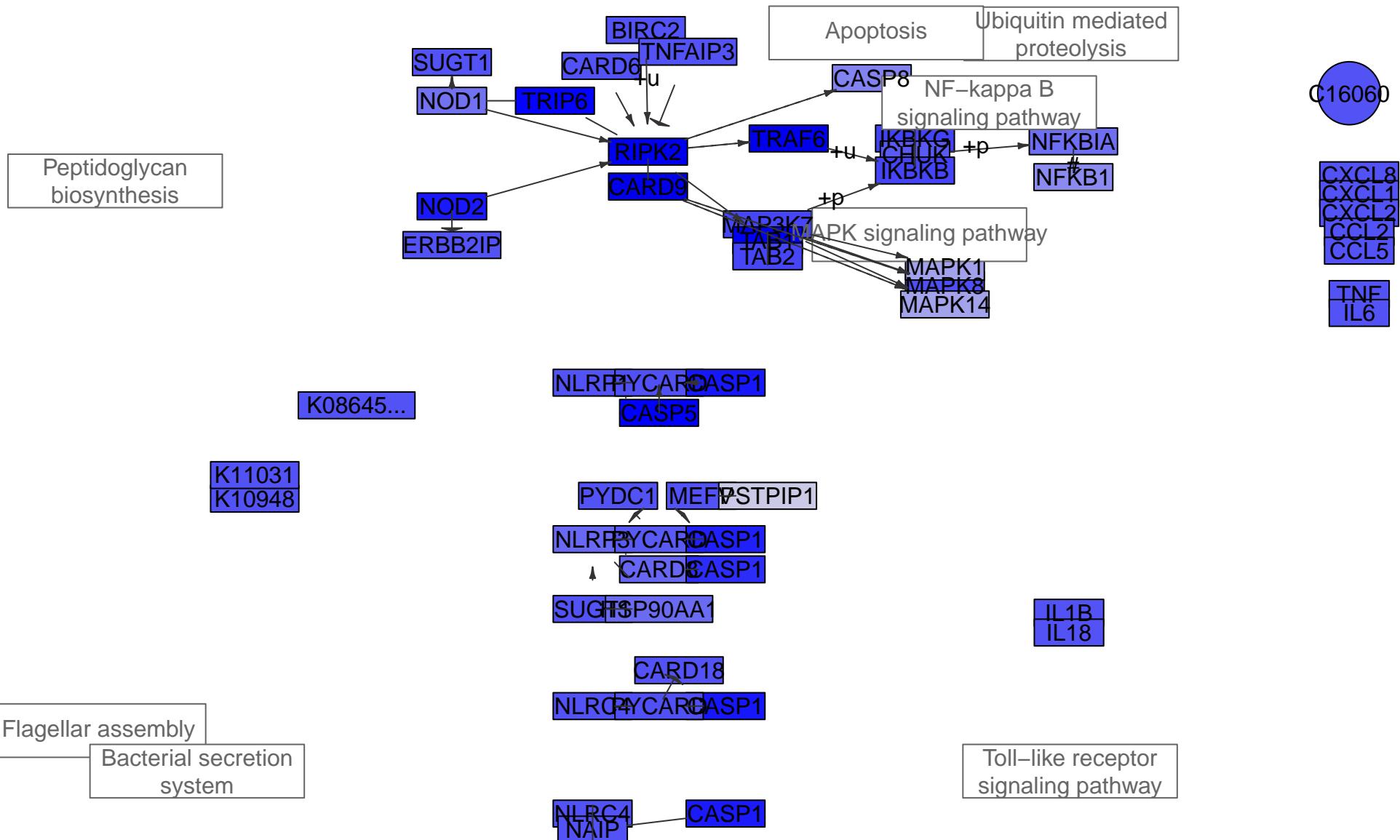
NOD-like receptor
signaling pathway
MPI-099



NOD-like receptor
signaling pathway
MPI-104

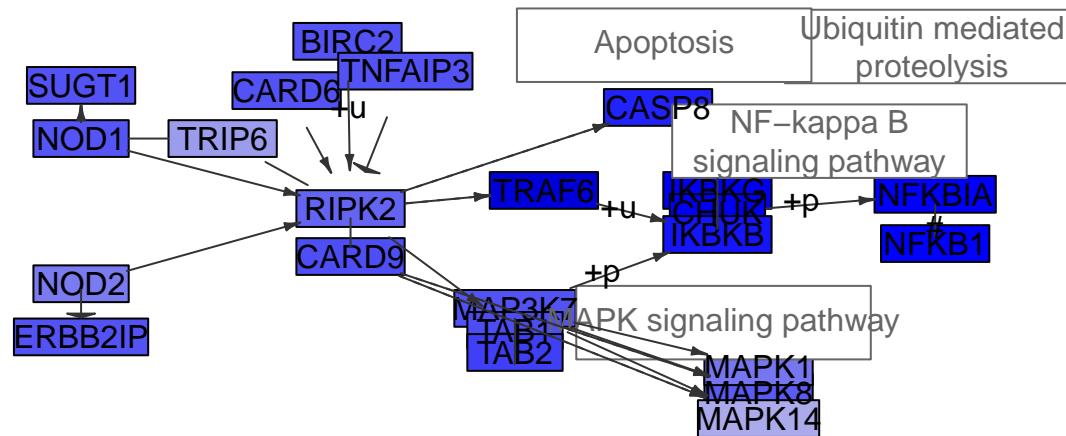


NOD-like receptor
signaling pathway
MPI-107



NOD-like receptor
signaling pathway
MPI-112

Peptidoglycan
biosynthesis



C16060
CXCL8
CXCL1
CXCL2
CCL2
CCL5
TNF
IL6

K08645...

NLRP3YCARD8CASP1
CASP5

K11031
K10948

PYDC1 MEFV STPIP1
NLRP3YCARD8CASP1
CARD8CASP1

Flagellar assembly
Bacterial secretion system

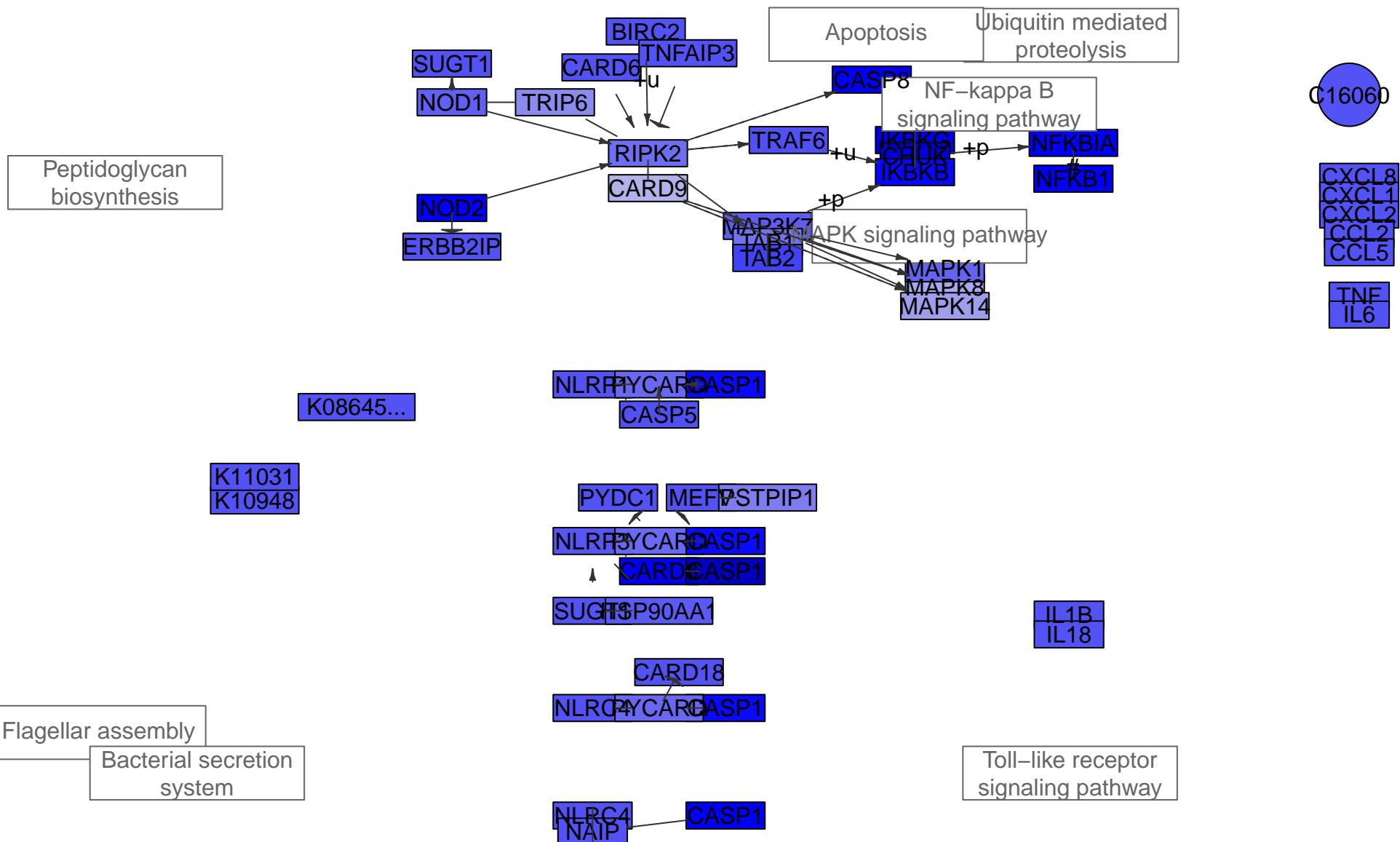
IL1B
IL18

SUGT1SP90AA1
CARD18
NLRP3YCARD8CASP1

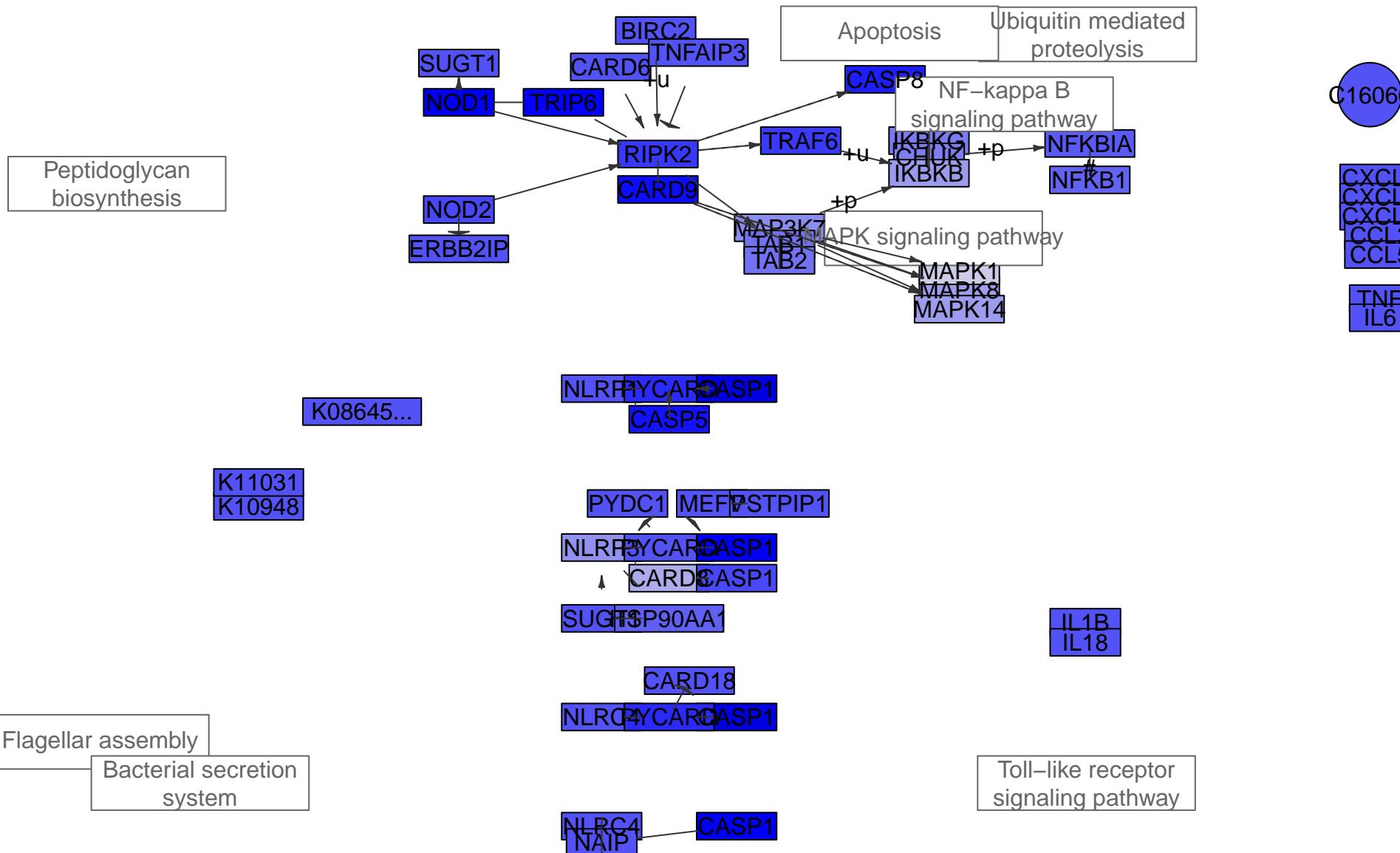
Toll-like receptor
signaling pathway

NLRP4YCASP1
NAIP
CASP1

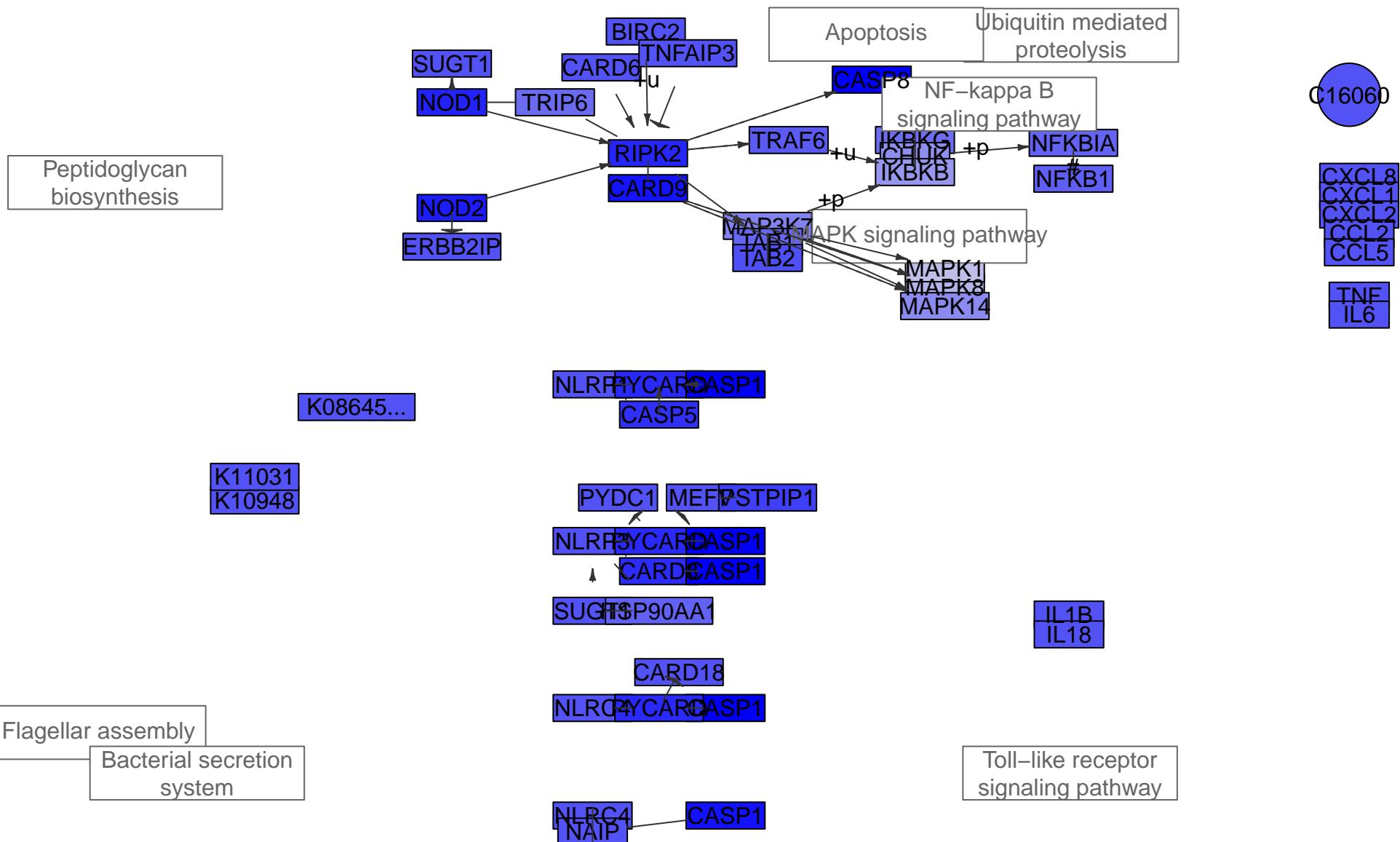
NOD-like receptor
signaling pathway
MPI-116



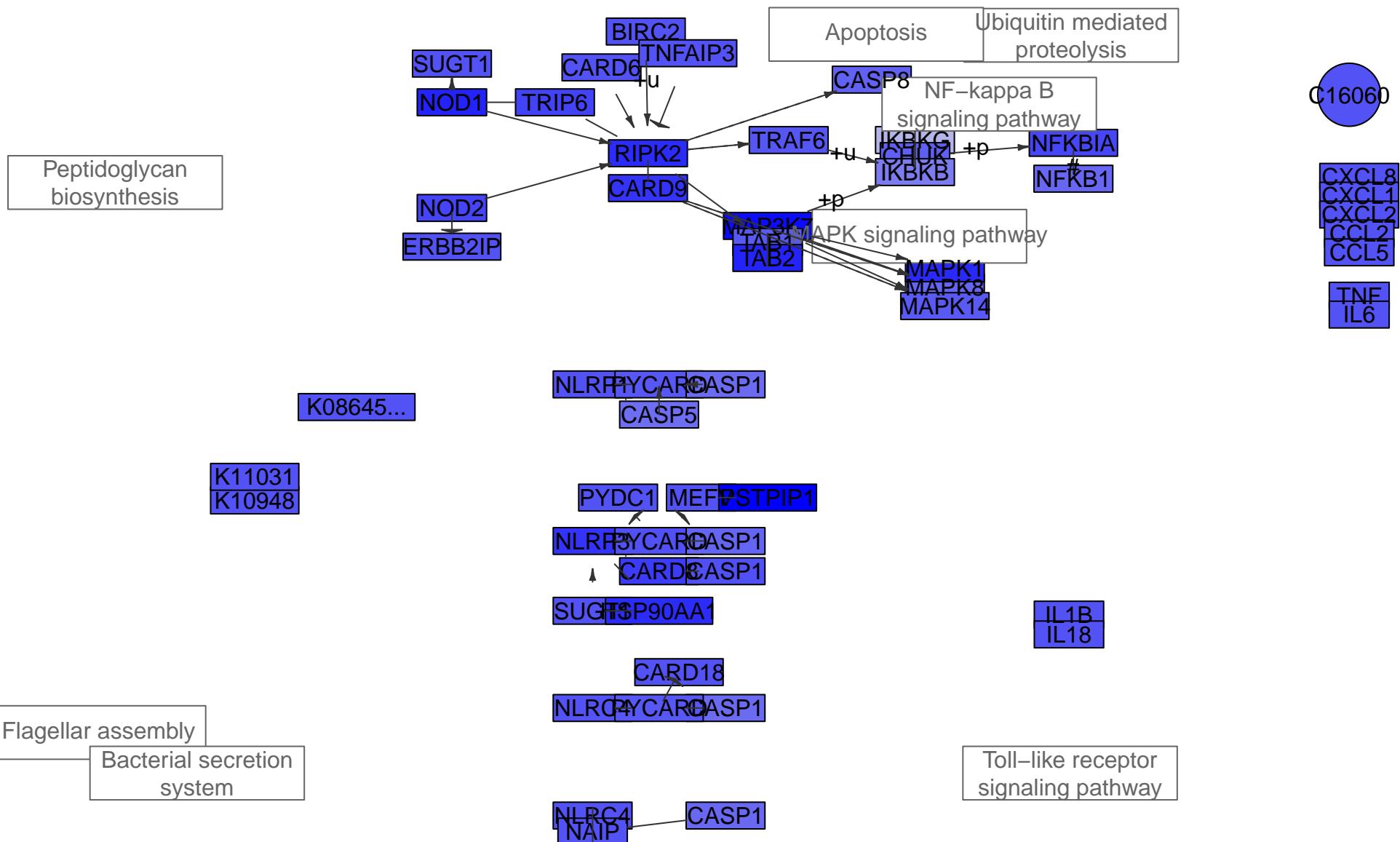
NOD-like receptor
signaling pathway
MPI-117



NOD-like receptor
signaling pathway
MPI-120

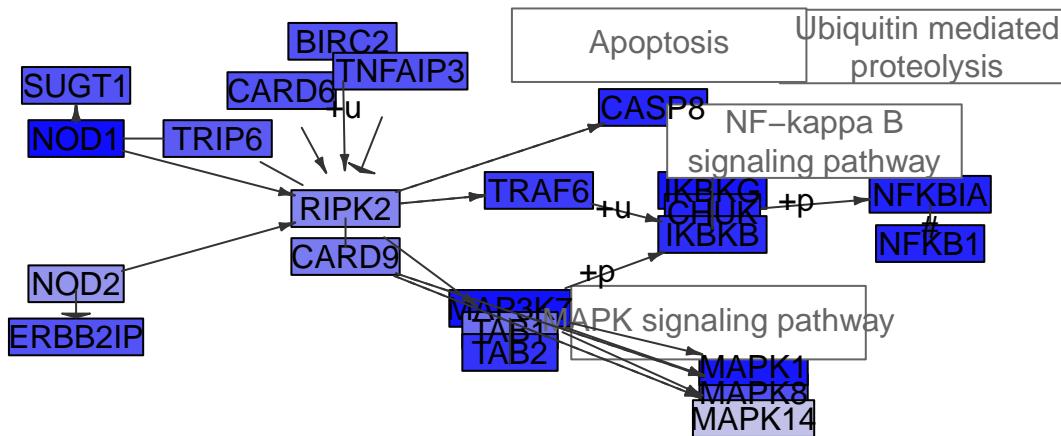


NOD-like receptor
signaling pathway
MPI-121



NOD-like receptor
signaling pathway
MPI-124

Peptidoglycan
biosynthesis



C16060
CXCL8
CXCL1
CXCL2
CCL2
CCL5
TNF
IL6

K08645...

NLRPFYCARDASP1
CASP5

K11031
K10948

PYDC1 MEFV PSTPIP1
NLRPFYCARDASP1
CARD8ASP1

Flagellar assembly
Bacterial secretion system

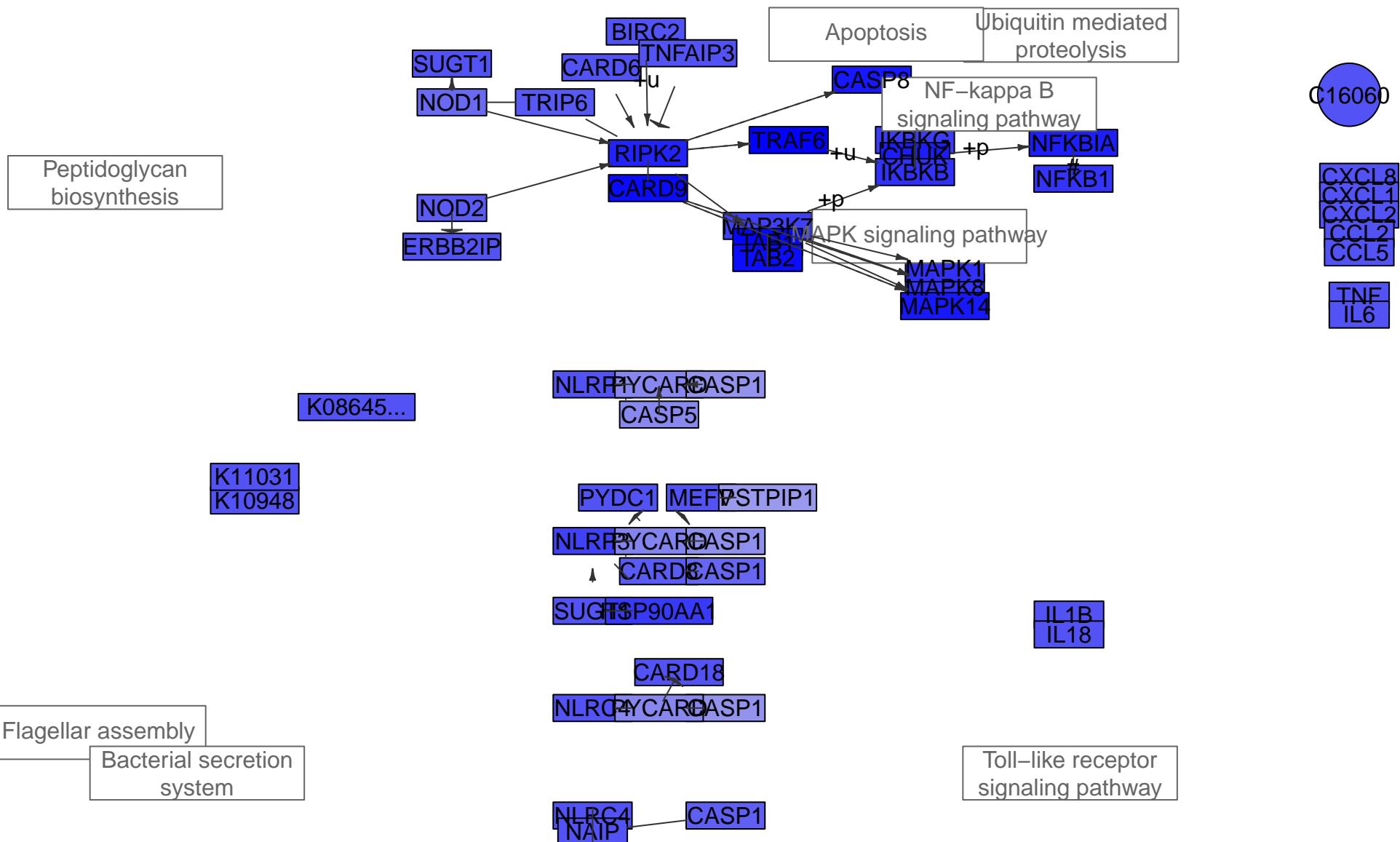
IL1B
IL18

SUGT1SP90AA1
CARD18
NLRPFYCARDASP1

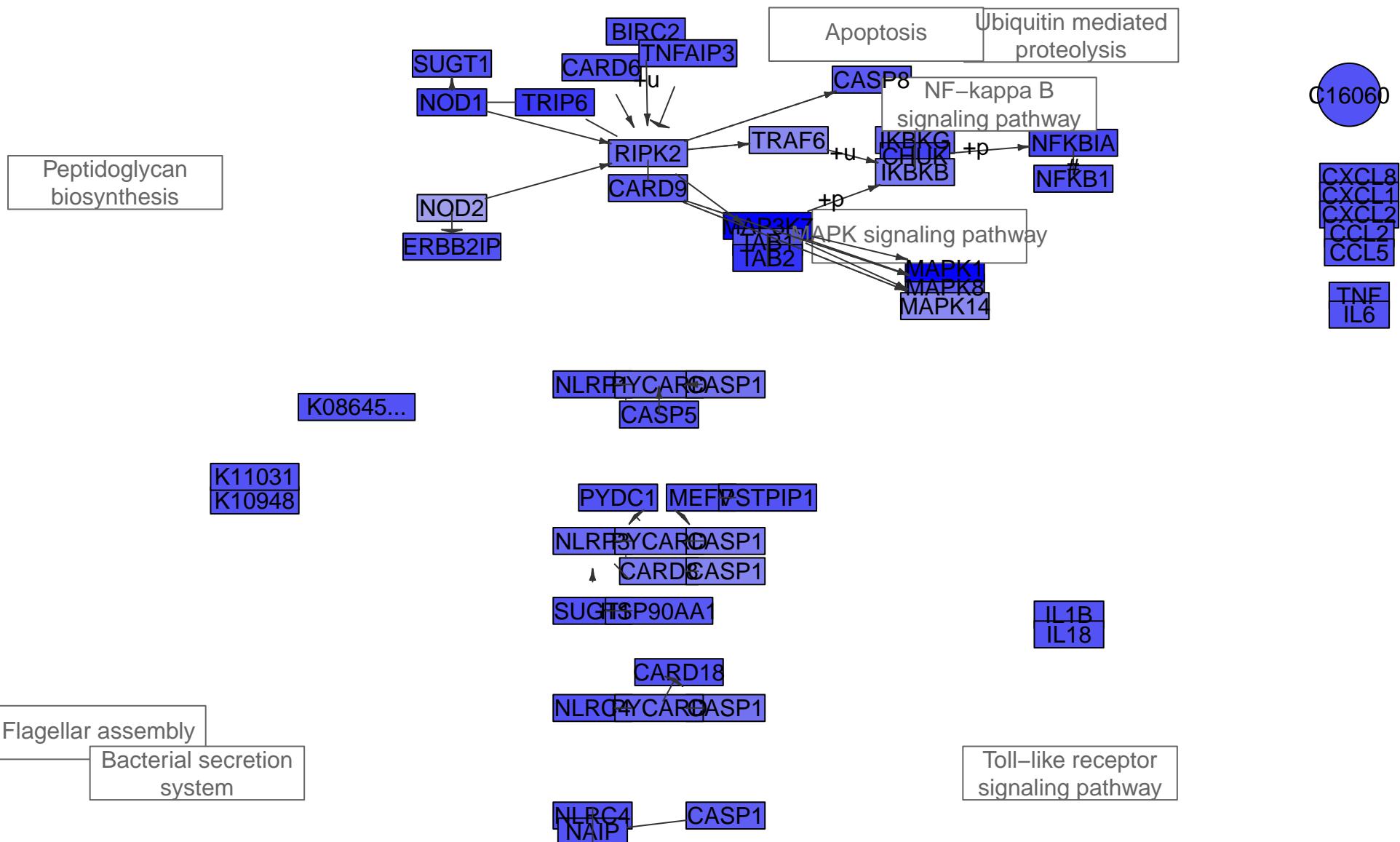
Toll-like receptor
signaling pathway

NLRPFYCARDASP1
CASP1

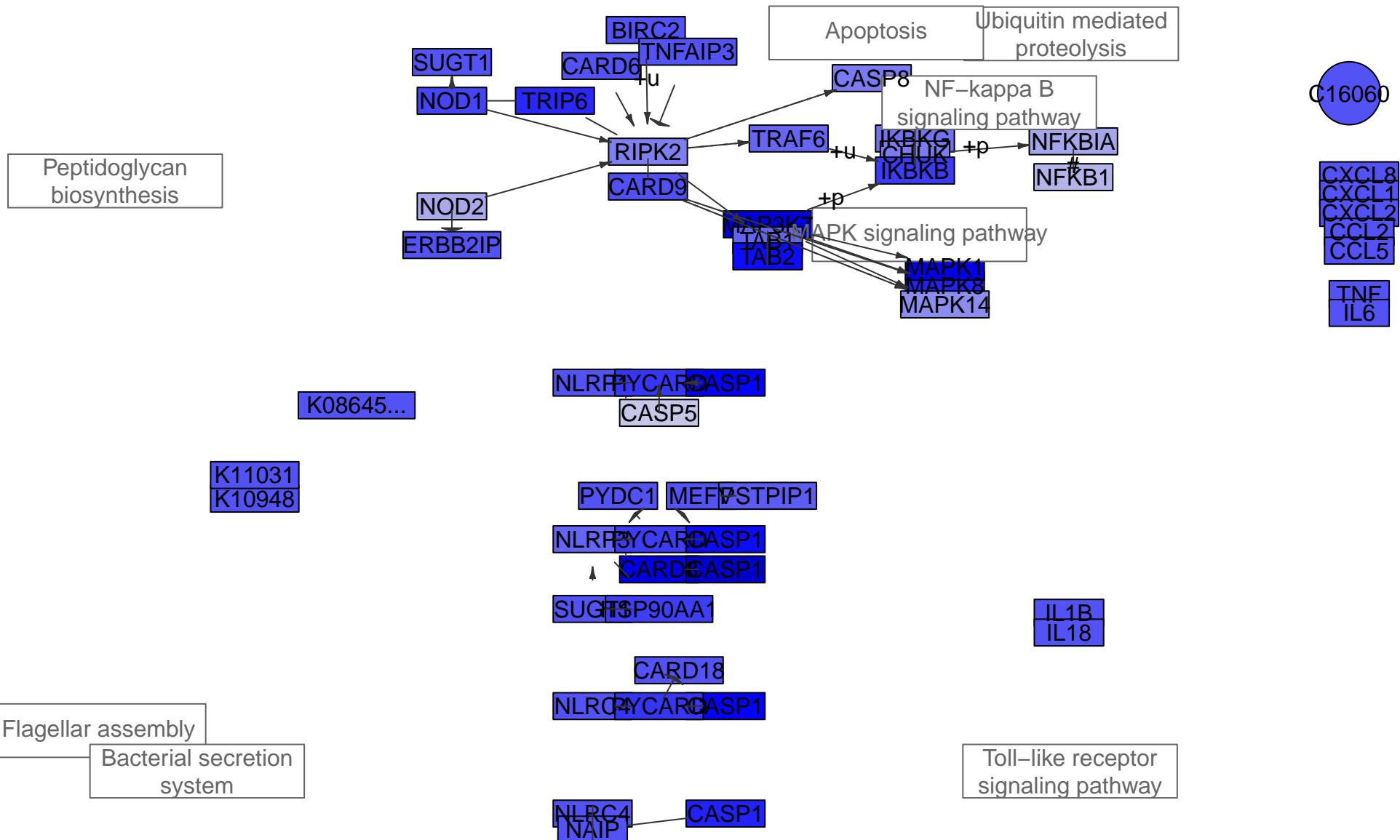
NOD-like receptor
signaling pathway
MPI-126



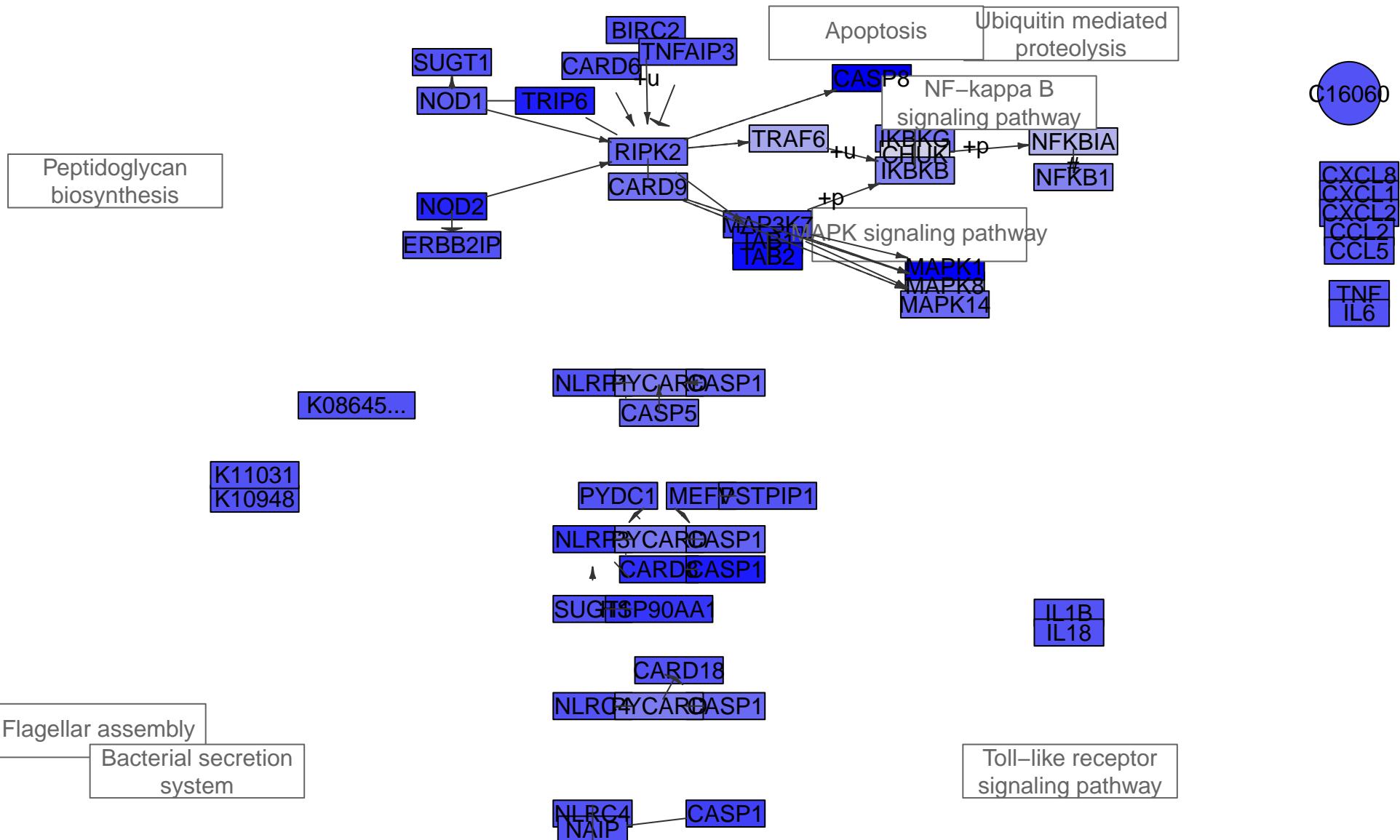
NOD-like receptor
signaling pathway
MPI-131



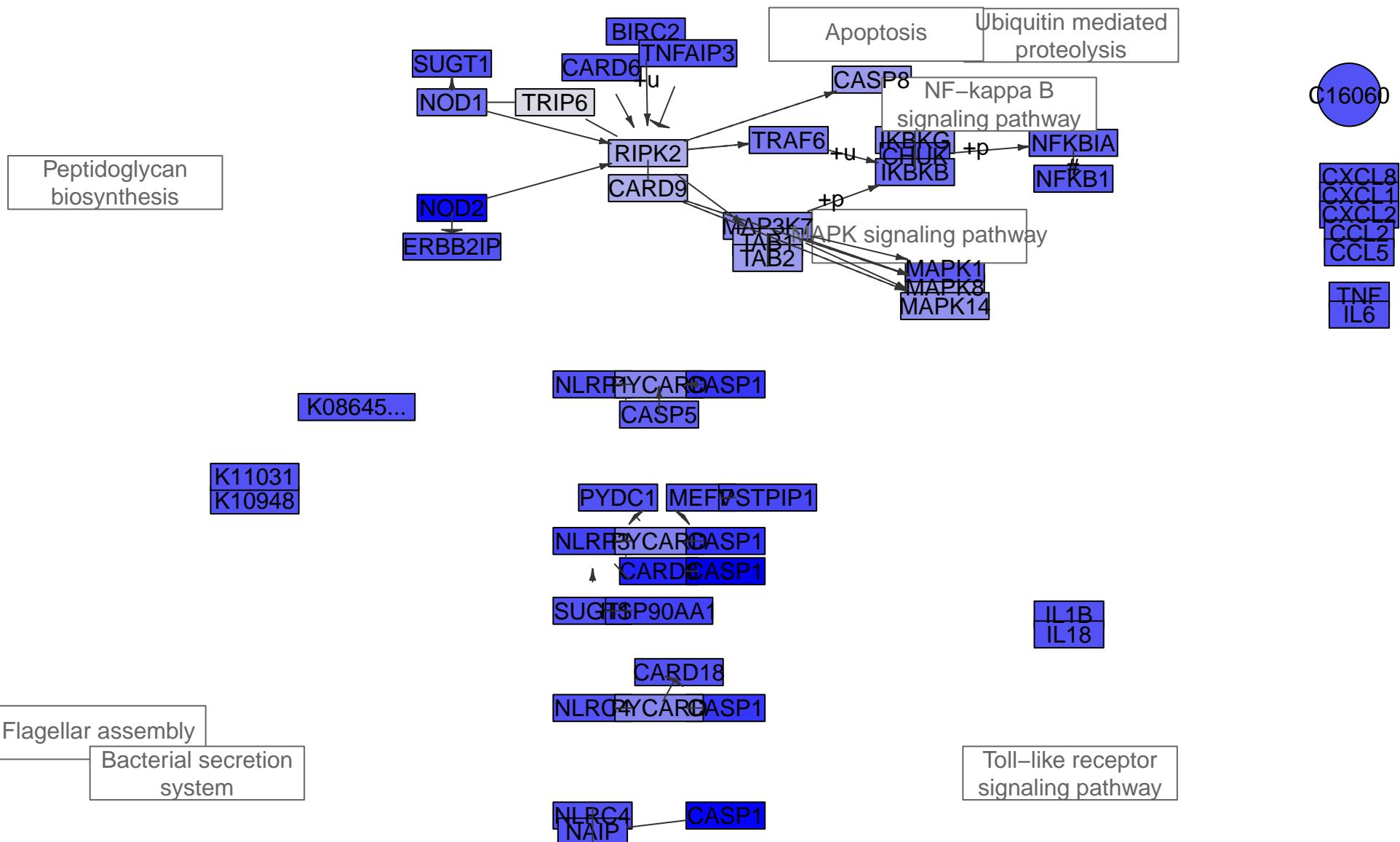
NOD-like receptor
signaling pathway
MPI-143



NOD-like receptor
signaling pathway
MPI-148

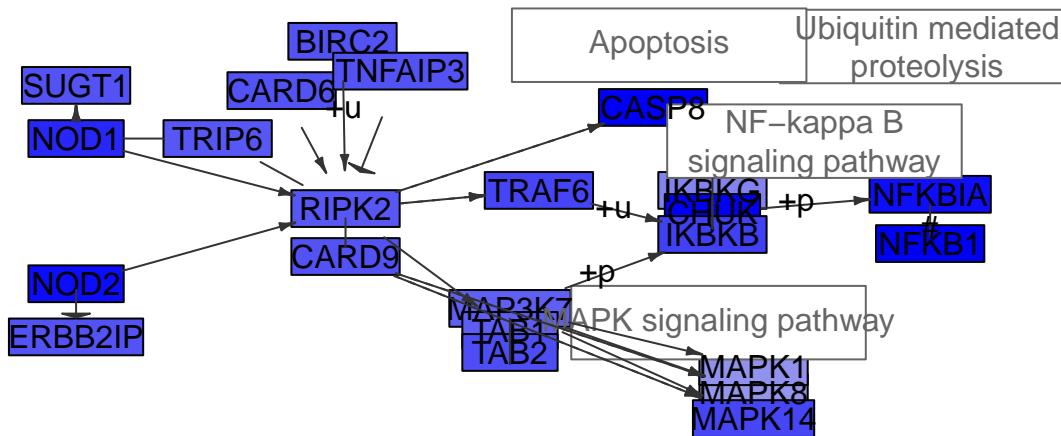


NOD-like receptor
signaling pathway
MPI-161



NOD-like receptor
signaling pathway
MPI-162

Peptidoglycan
biosynthesis



C16060
CXCL8
CXCL1
CXCL2
CCL2
CCL5
TNF
IL6

K08645...

NLRPF3YCARDASP1
CASP5

K11031
K10948

PYDC1 MEFV STPIP1
NLRPF3YCARDASP1
CARD8ASP1

Flagellar assembly
Bacterial secretion system

SUGT1SP90AA1

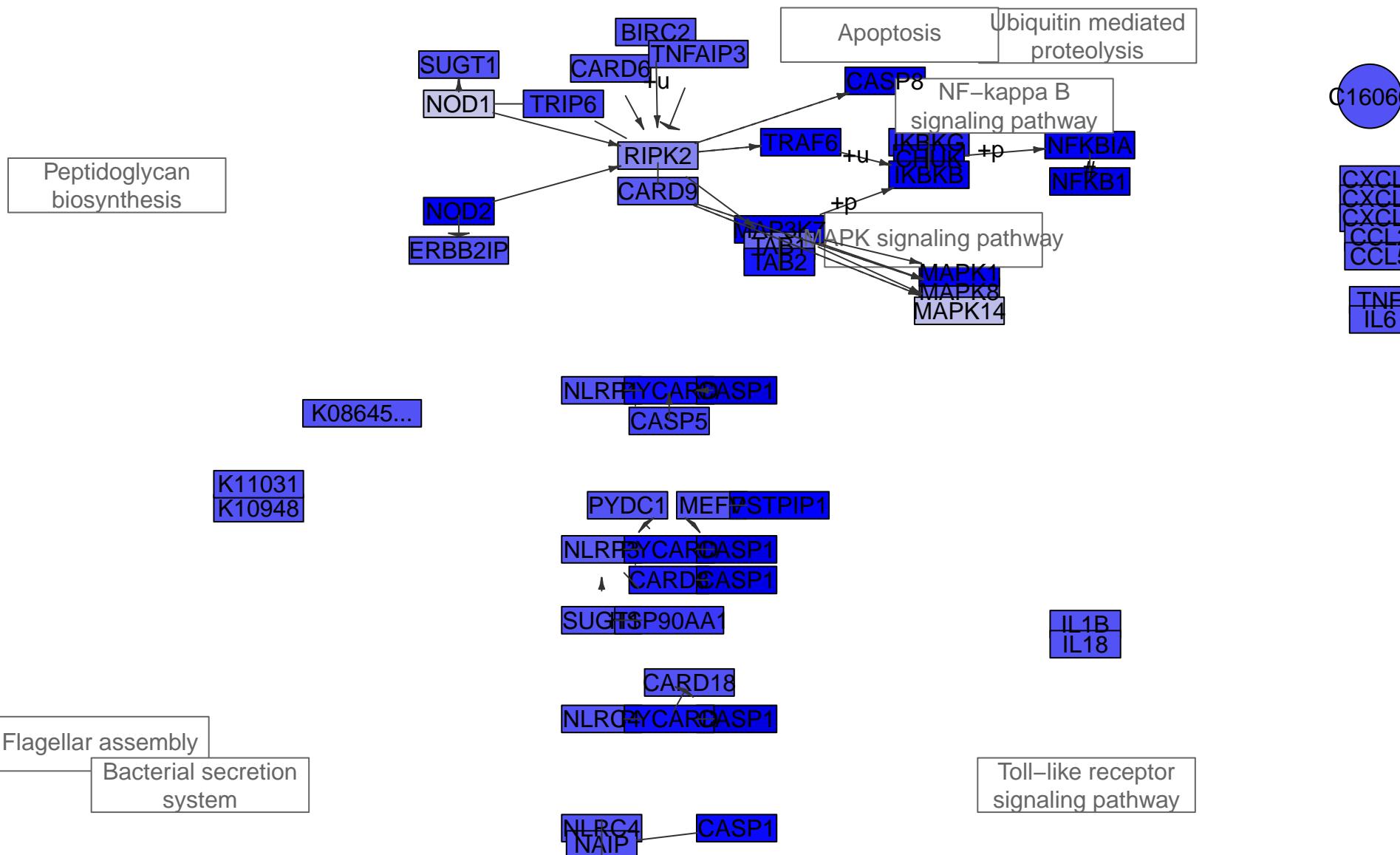
IL1B
IL18

CARD18
NLRPF3YCARDASP1

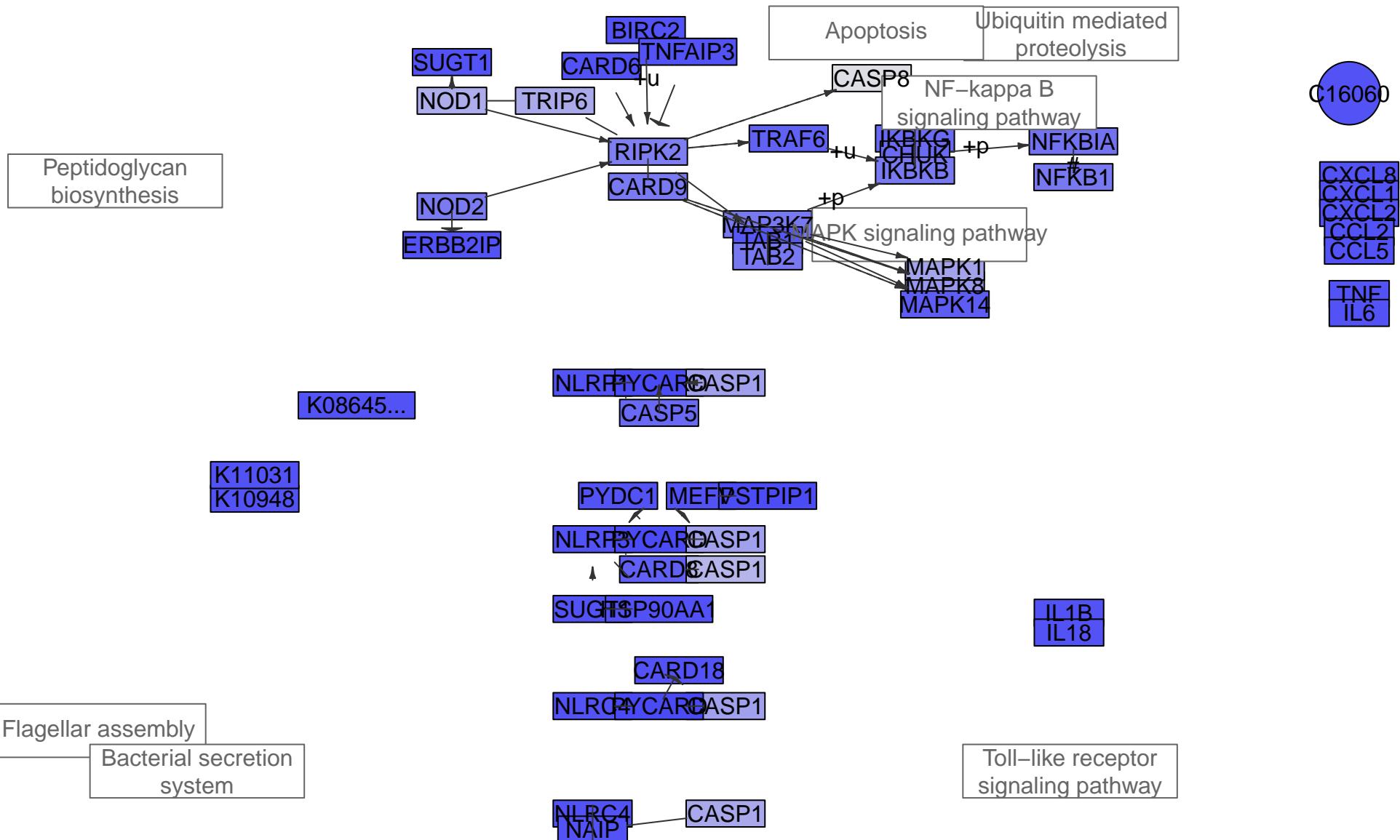
Toll-like receptor
signaling pathway

NLRPF4NAIP
CASP1

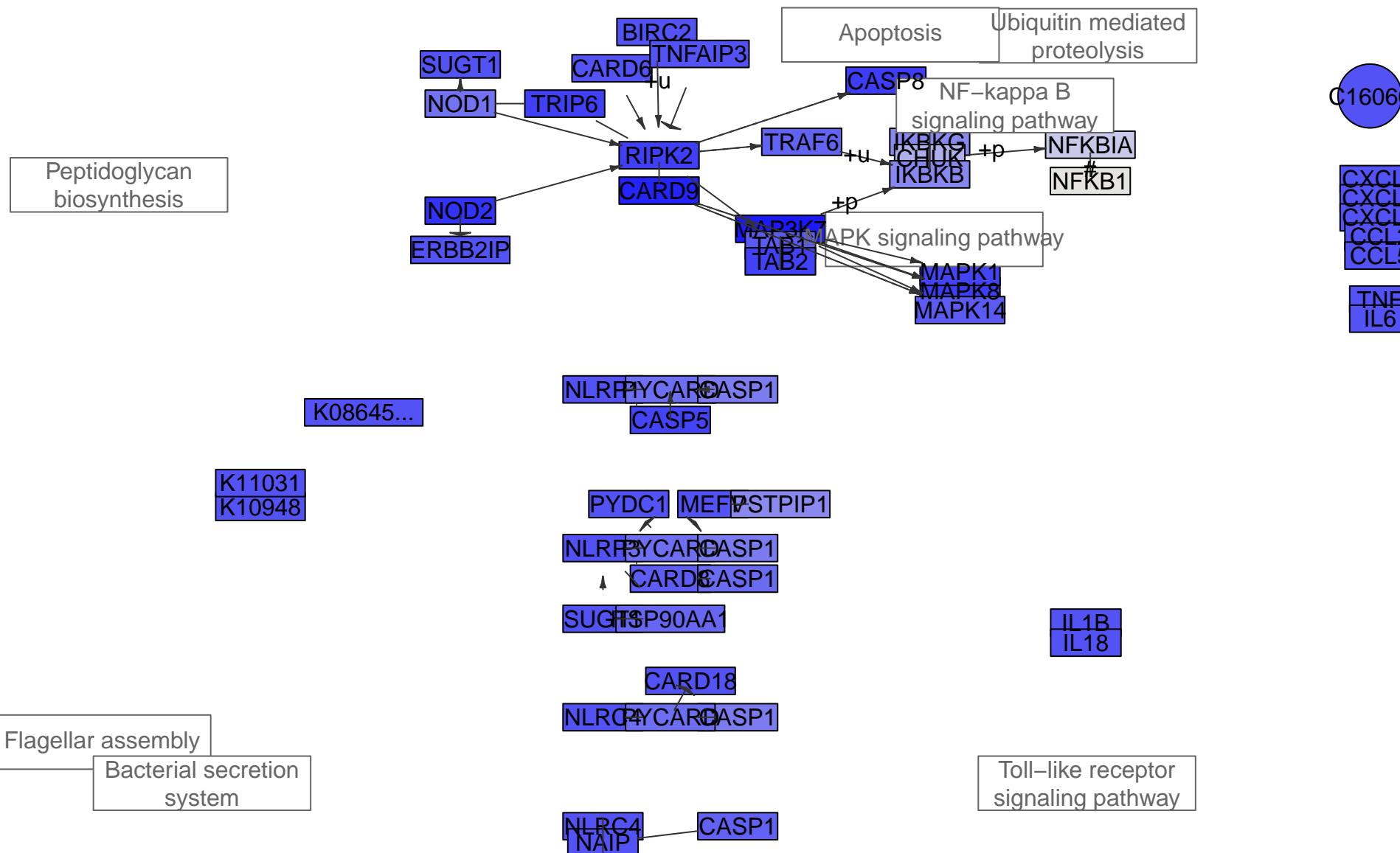
NOD-like receptor
signaling pathway
MPI-165



NOD-like receptor
signaling pathway
MPI-169

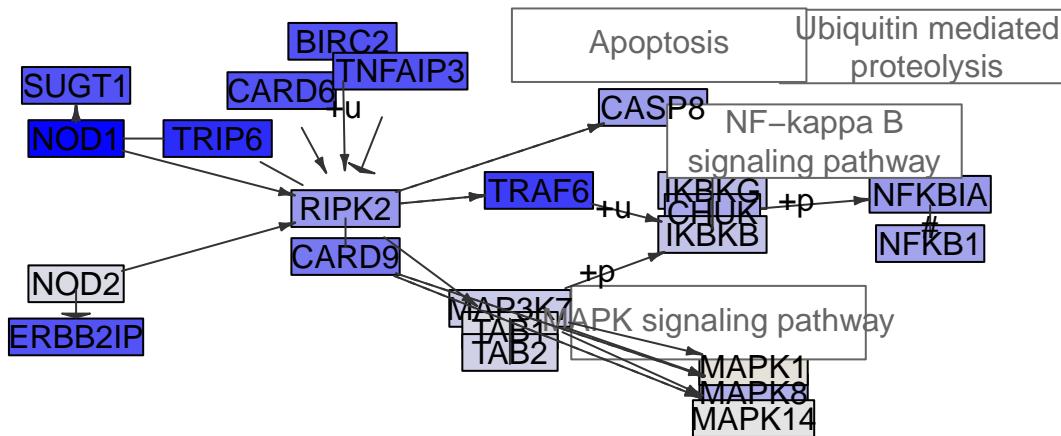


NOD-like receptor
signaling pathway
MPI-175



NOD-like receptor
signaling pathway
MPI-187

Peptidoglycan
biosynthesis



C16060
CXCL8
CXCL1
CXCL2
CCL2
CCL5
TNF
IL6

K08645...

NLRP3YCARDASP1
CASP5

K11031
K10948

PYDC1 MEFV STPIP1
NLRP3YCARDASP1
CARD8CASP1

Flagellar assembly
Bacterial secretion system

SUGT1 SP90AA1

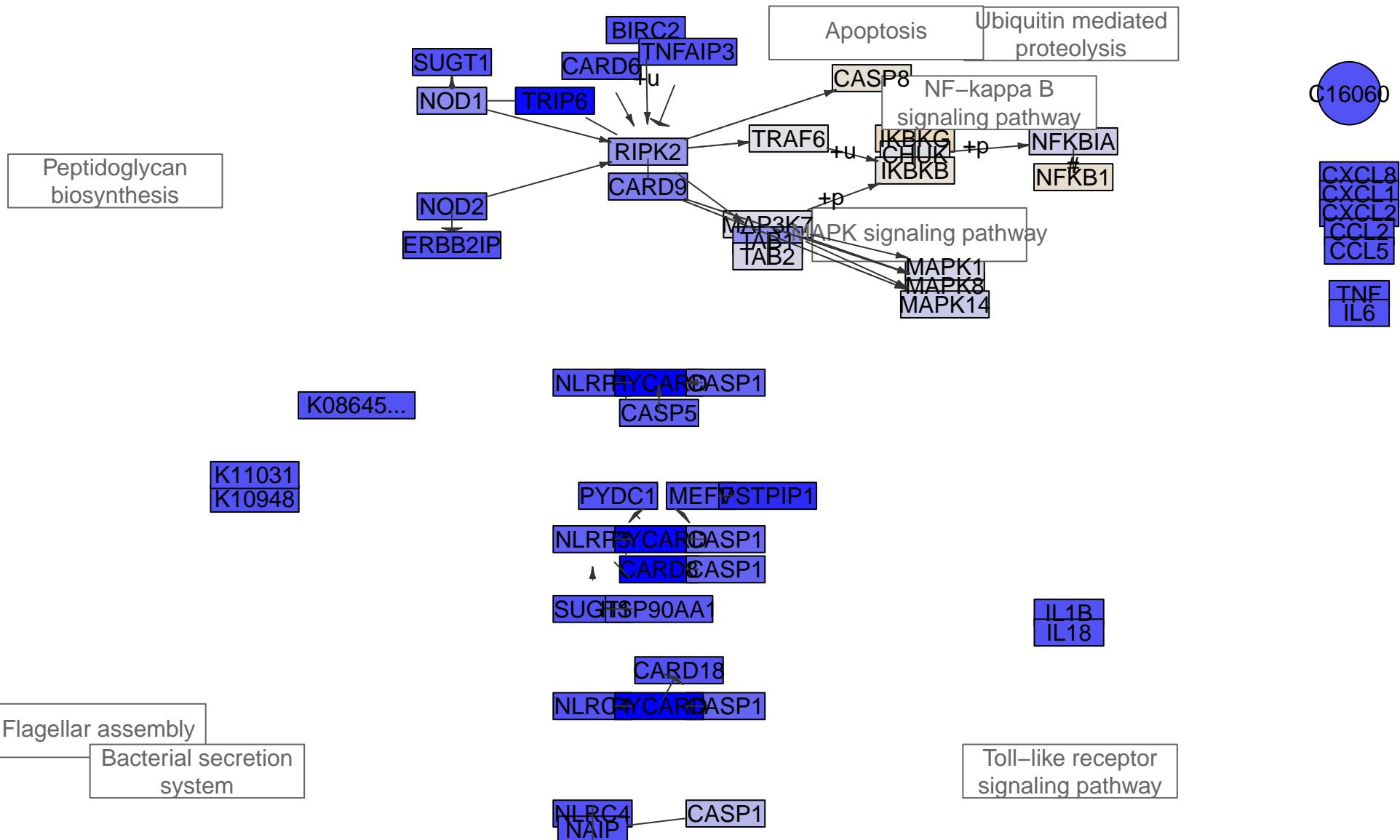
IL1B
IL18

CARD18
NLRP4YCARDASP1

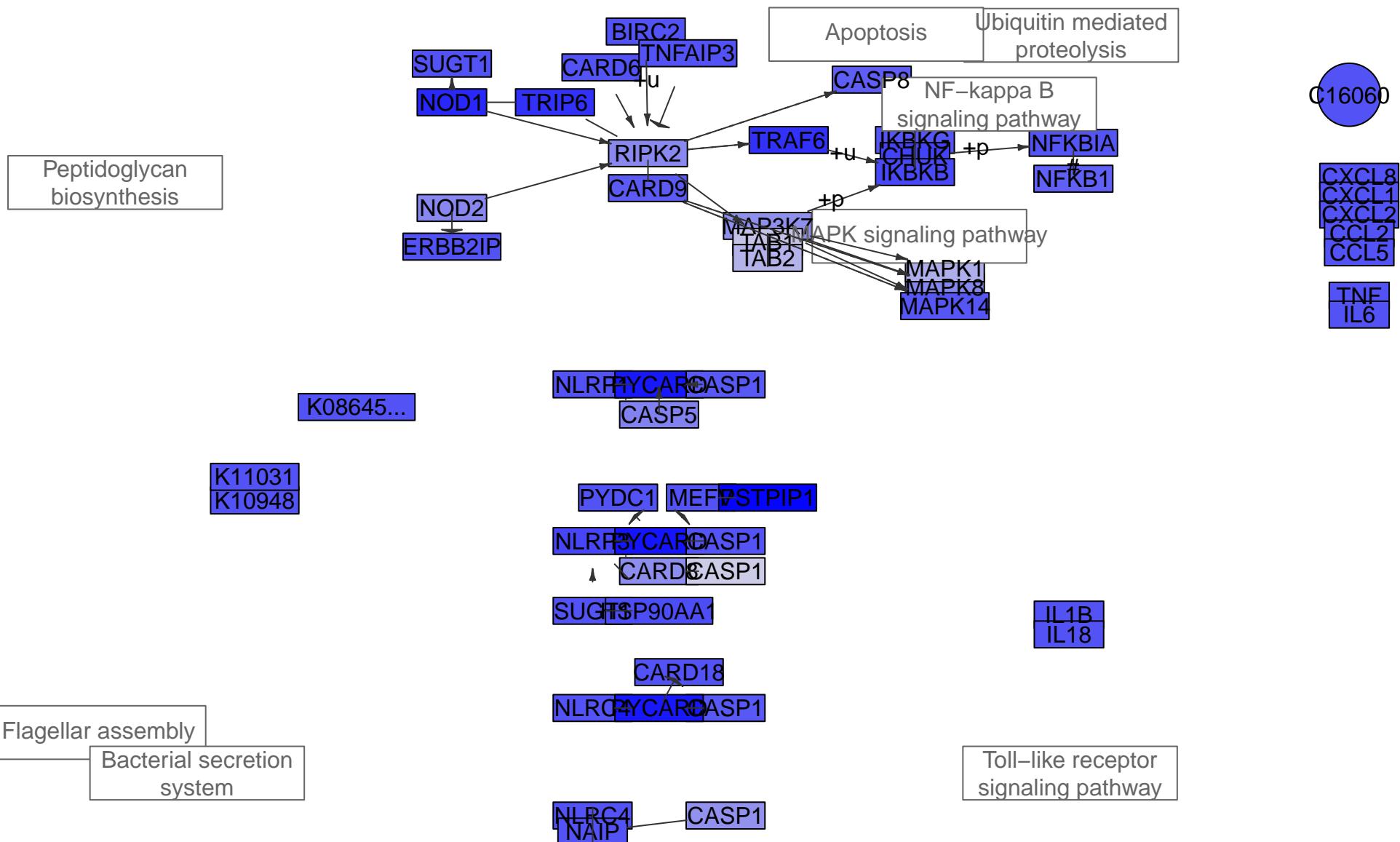
Toll-like receptor
signaling pathway

NLRP4 NAIP
CASP1

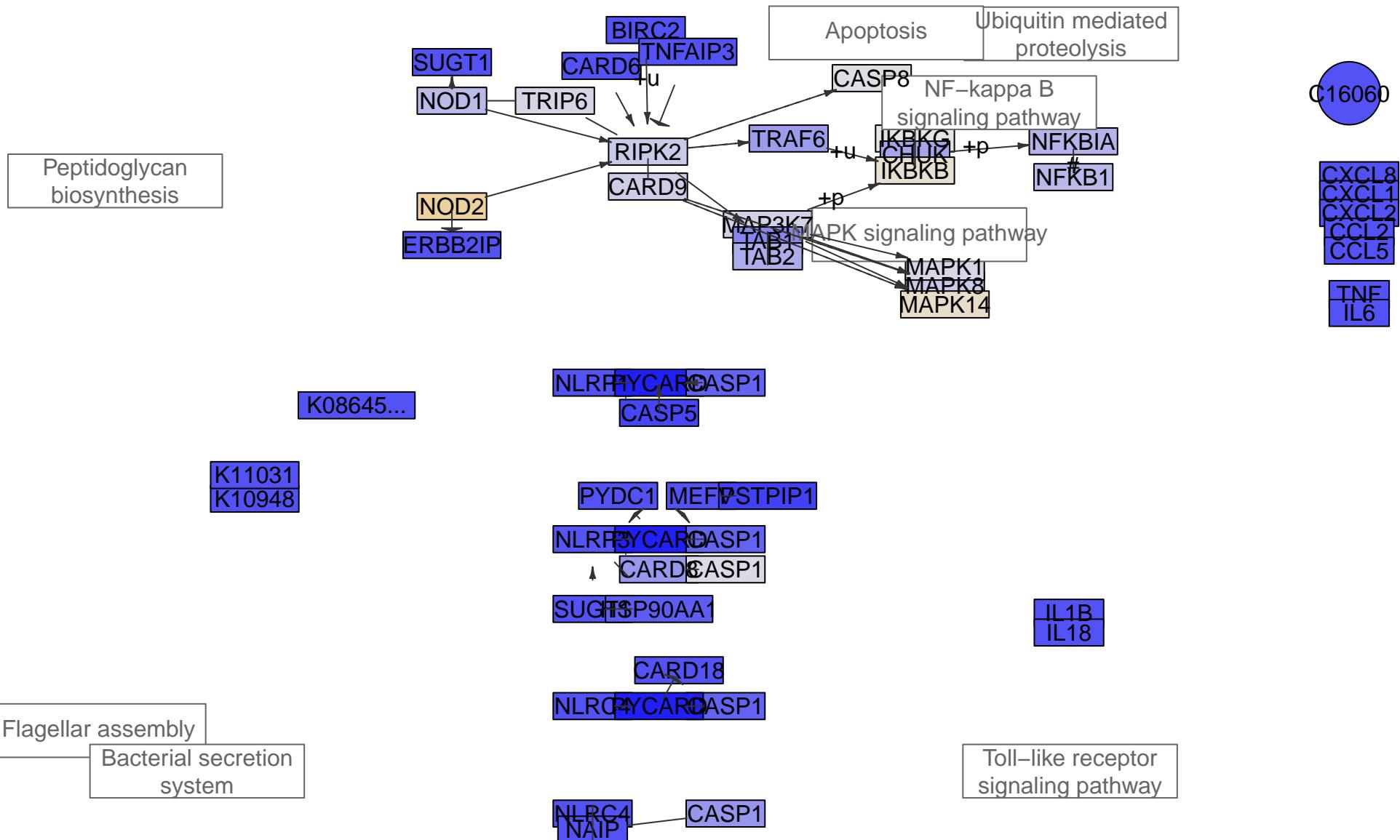
NOD-like receptor
signaling pathway
MPI-193



NOD-like receptor
signaling pathway
MPI-216

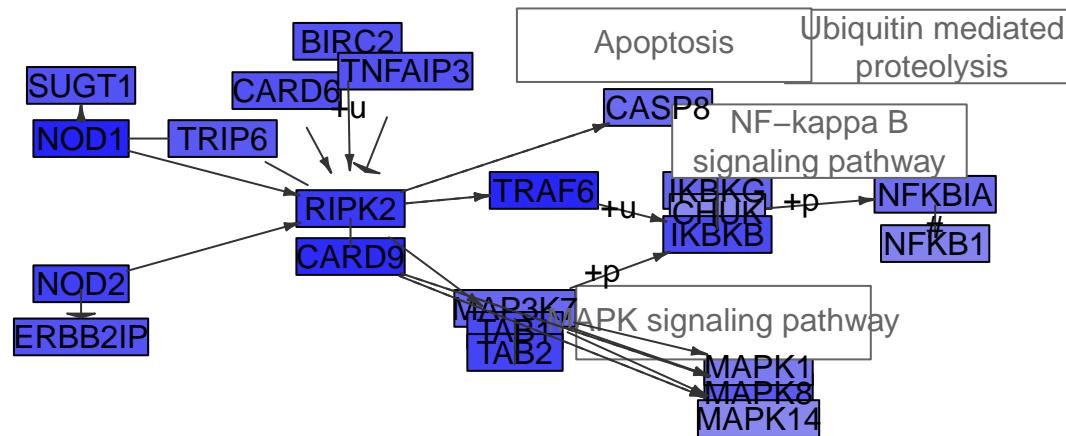


NOD-like receptor
signaling pathway
MPI-222



NOD-like receptor
signaling pathway
MPI-225

Peptidoglycan
biosynthesis



C16060
CXCL8
CXCL1
CXCL2
CCL2
CCL5
TNF
IL6

K08645...

NLRP3PYCARD8CASP1
CASP5

K11031
K10948

PYDC1 MEF17 STPIP1
NLRP3PYCARD8CASP1
CARD8CASP1

Flagellar assembly
Bacterial secretion system

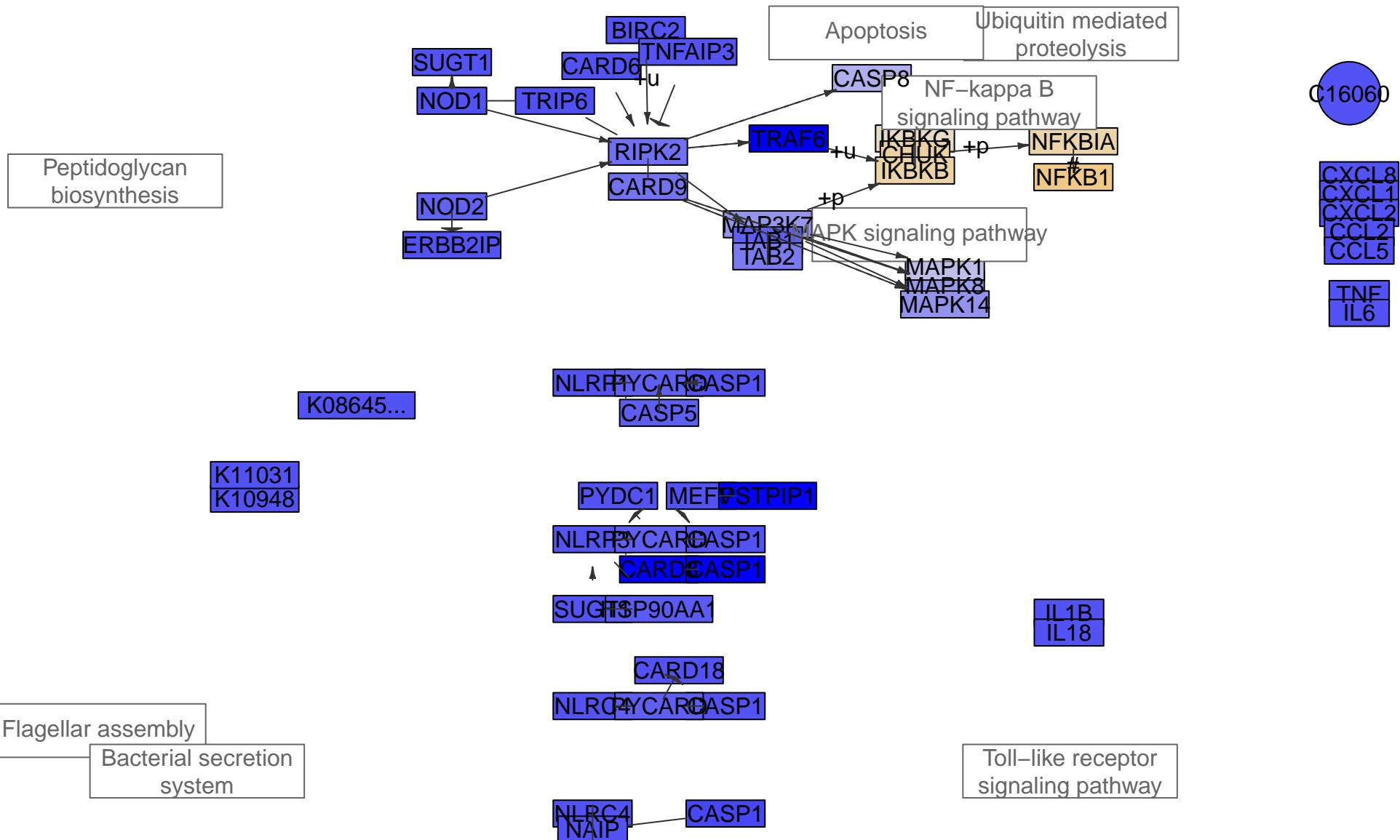
IL1B
IL18

SUGT1SP90AA1
CARD18
NLRP4PYCARD8CASP1

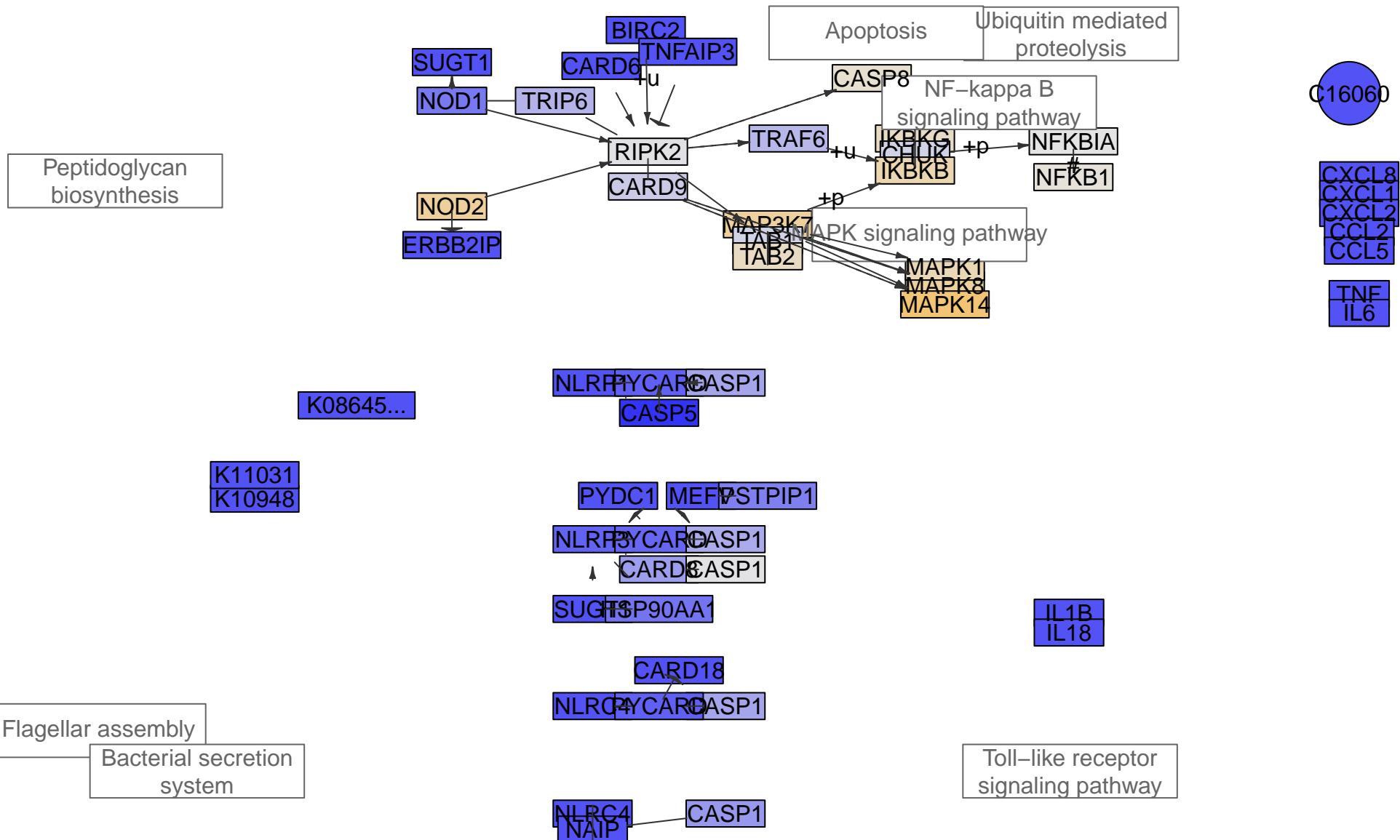
Toll-like receptor
signaling pathway

NLRP4
TNFAIP3
CASP1

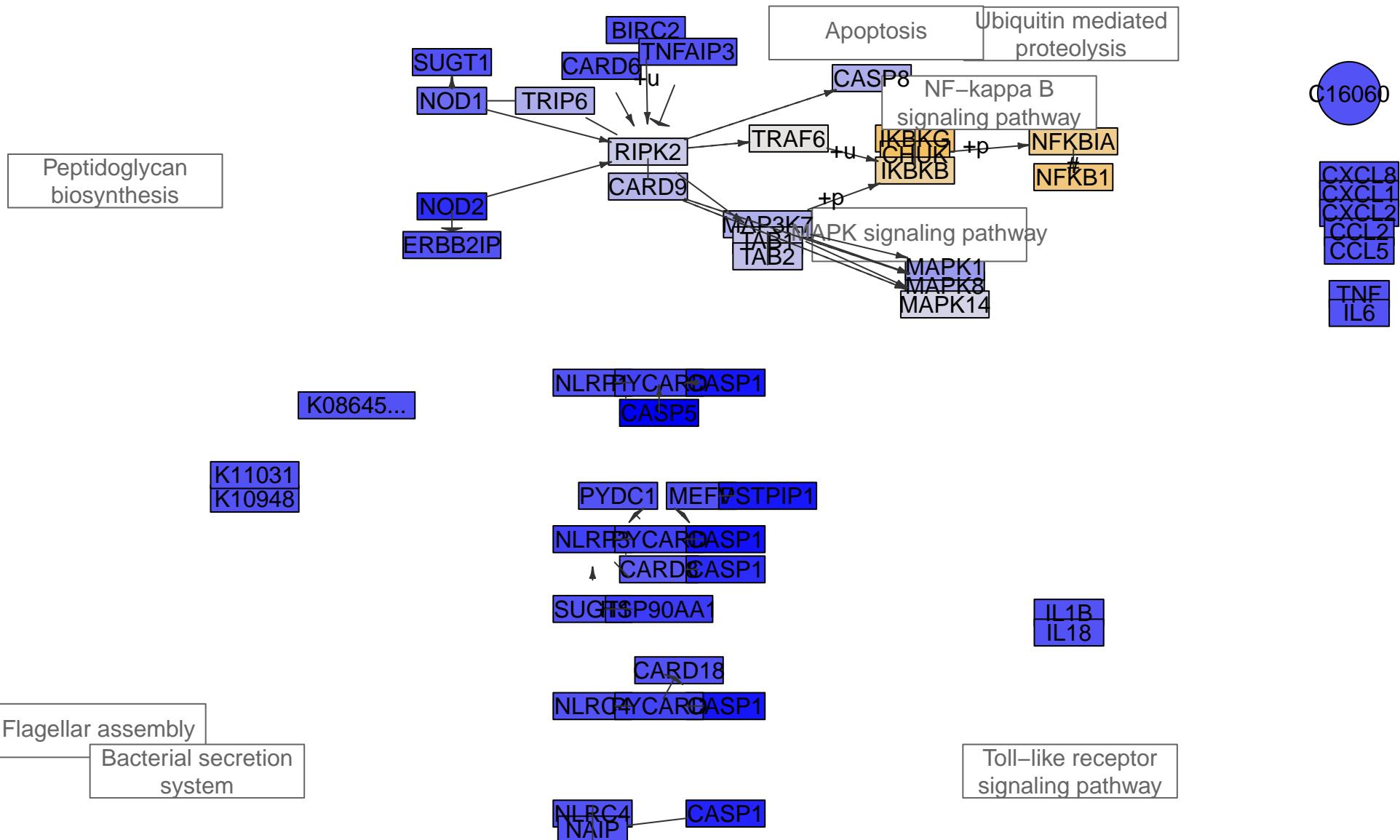
NOD-like receptor
signaling pathway
MPI-242



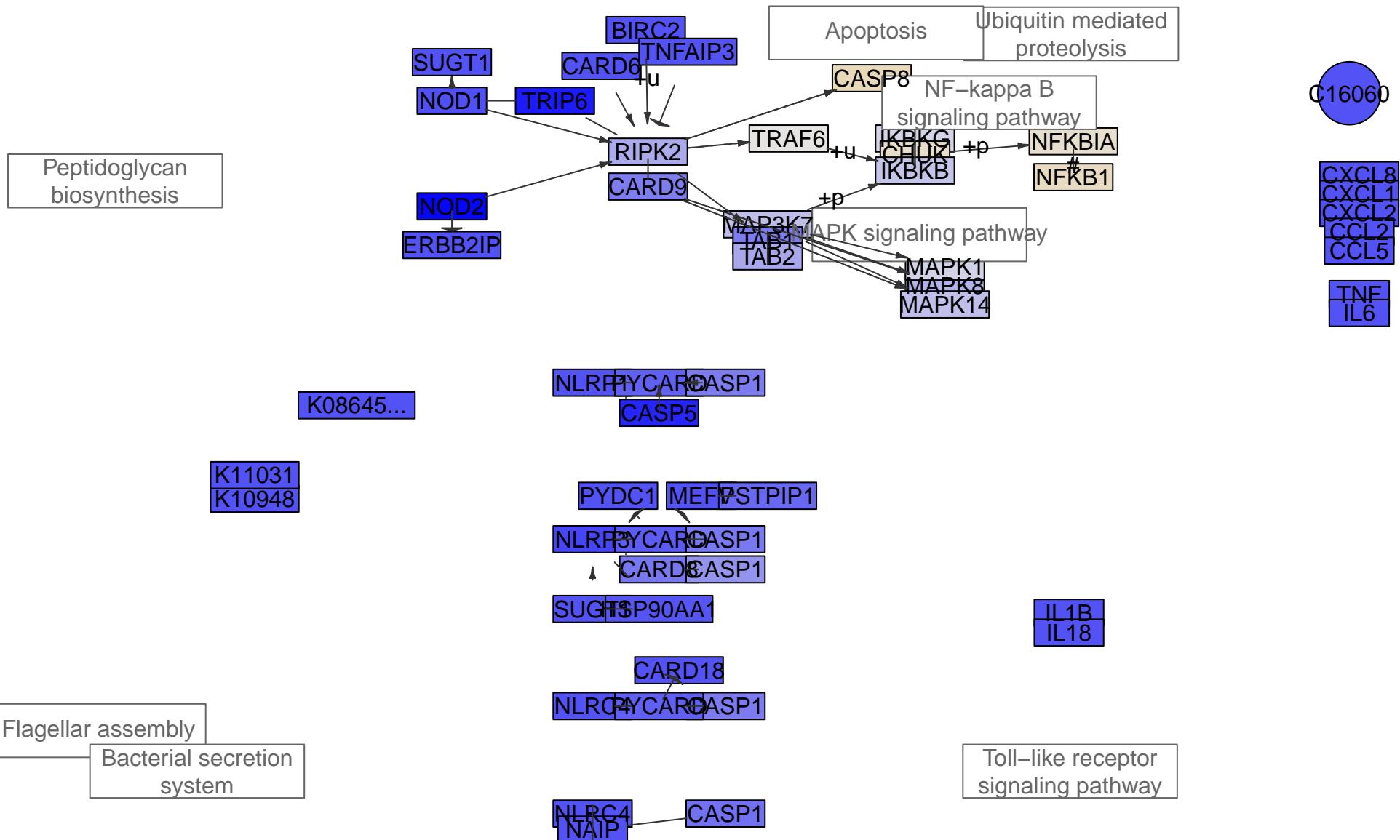
NOD-like receptor
signaling pathway
MPI-245



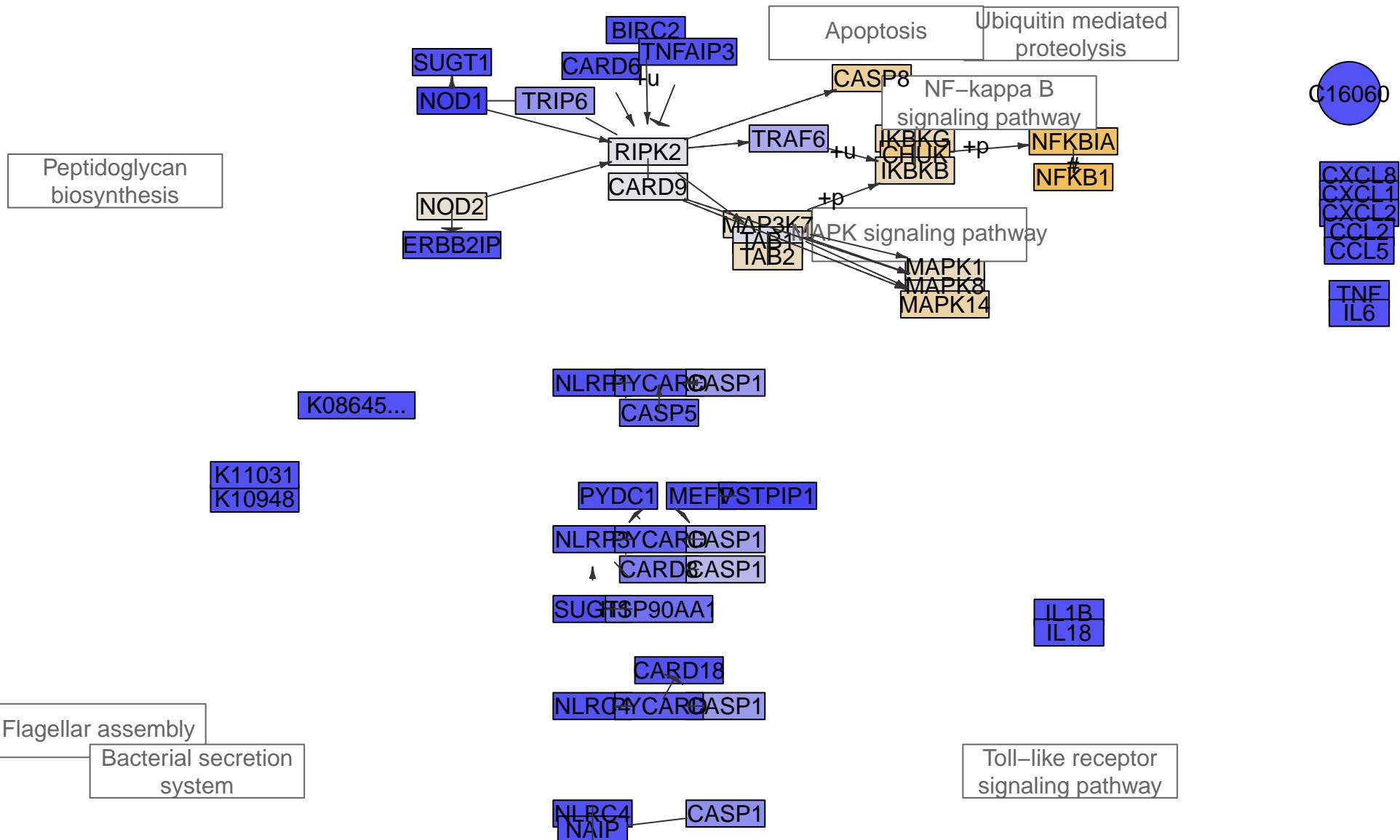
NOD-like receptor
signaling pathway
MPI-248



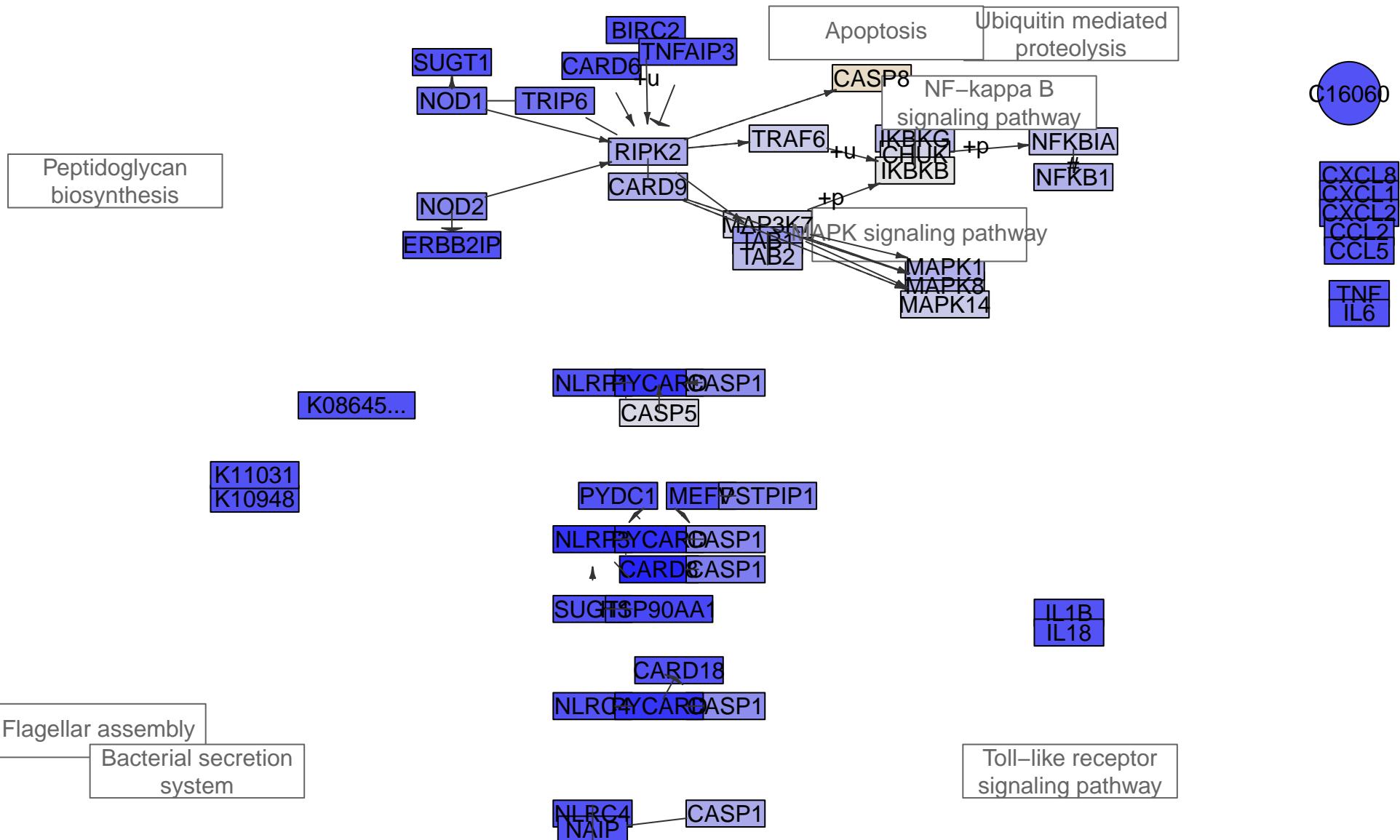
NOD-like receptor
signaling pathway
MPI-249



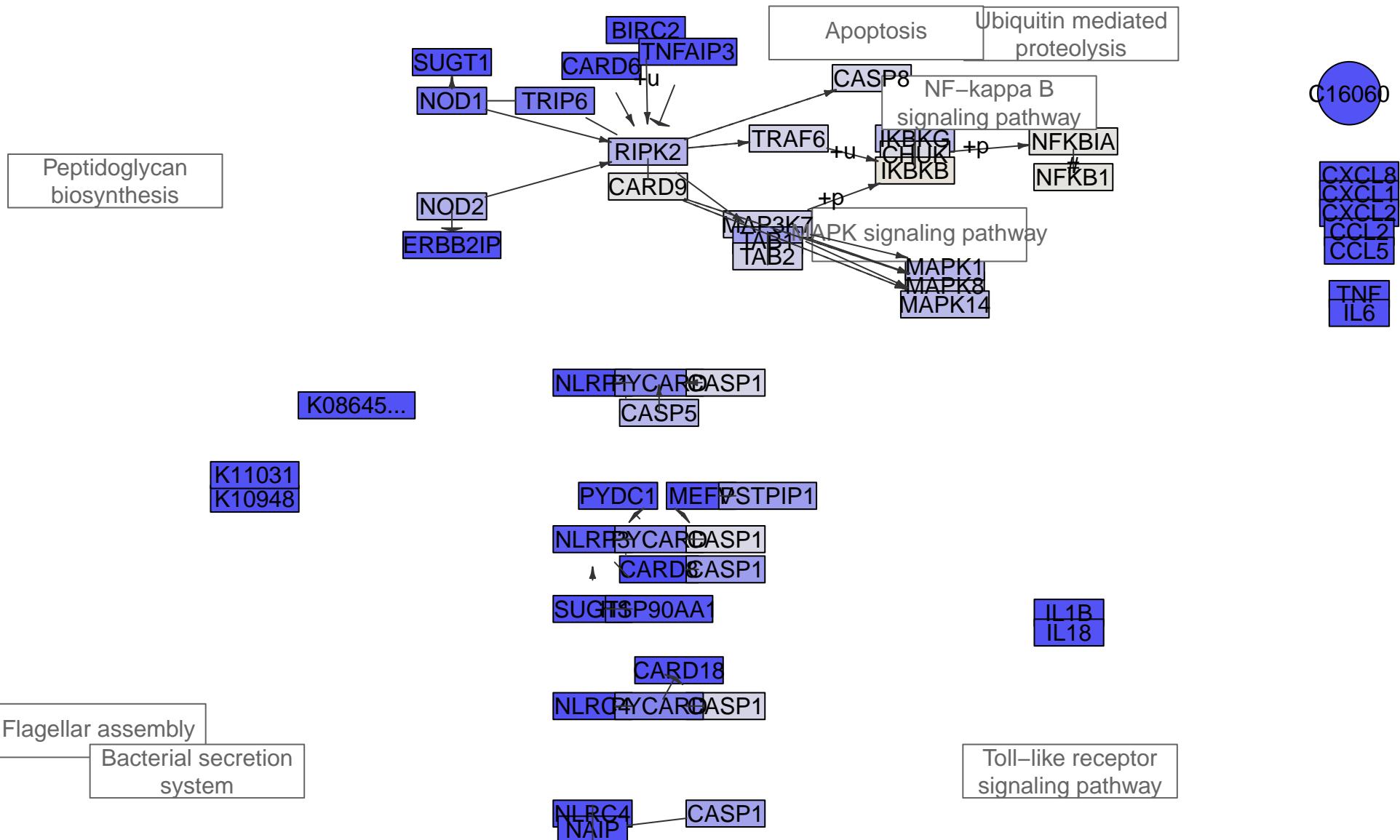
NOD-like receptor
signaling pathway
MPI=250



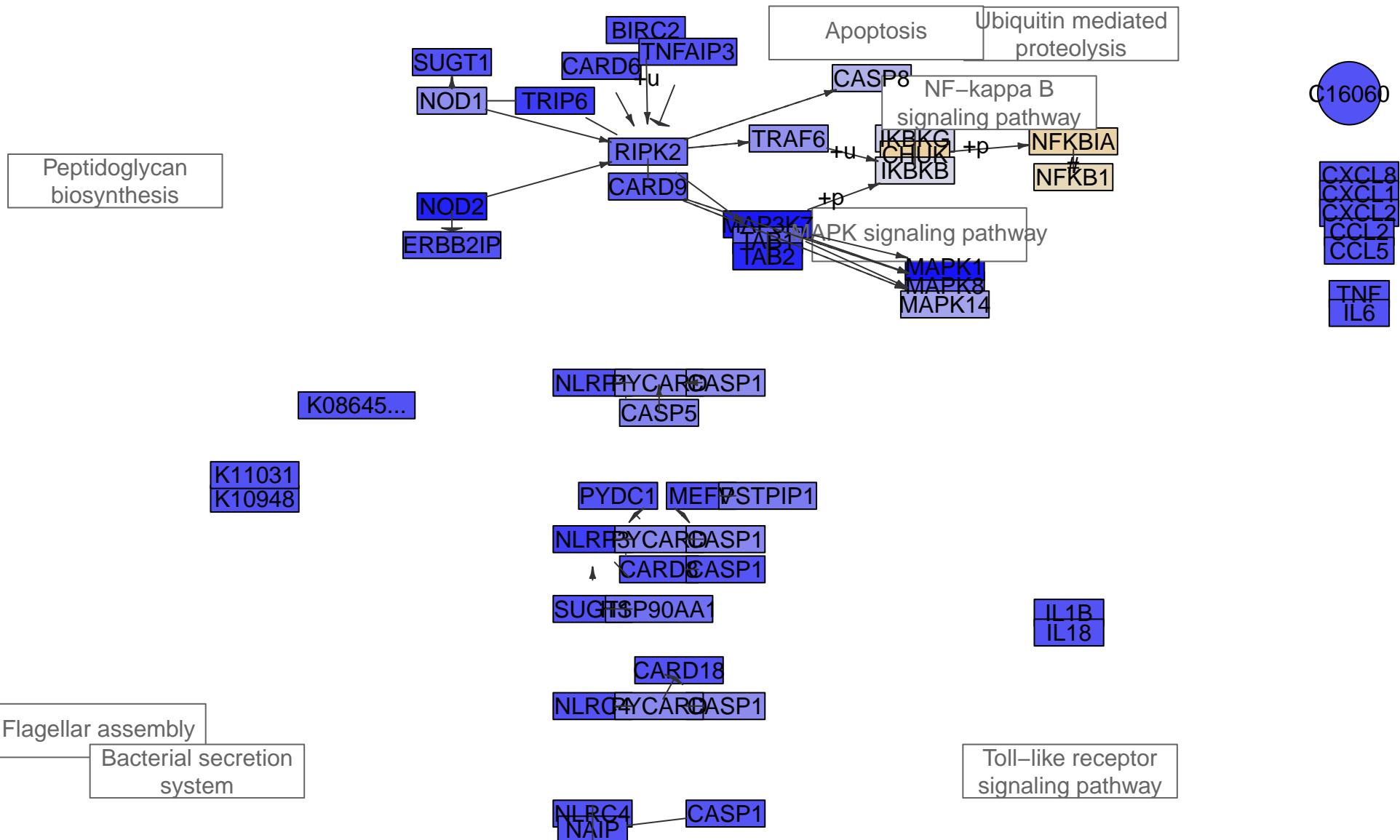
NOD-like receptor
signaling pathway
MPI-008



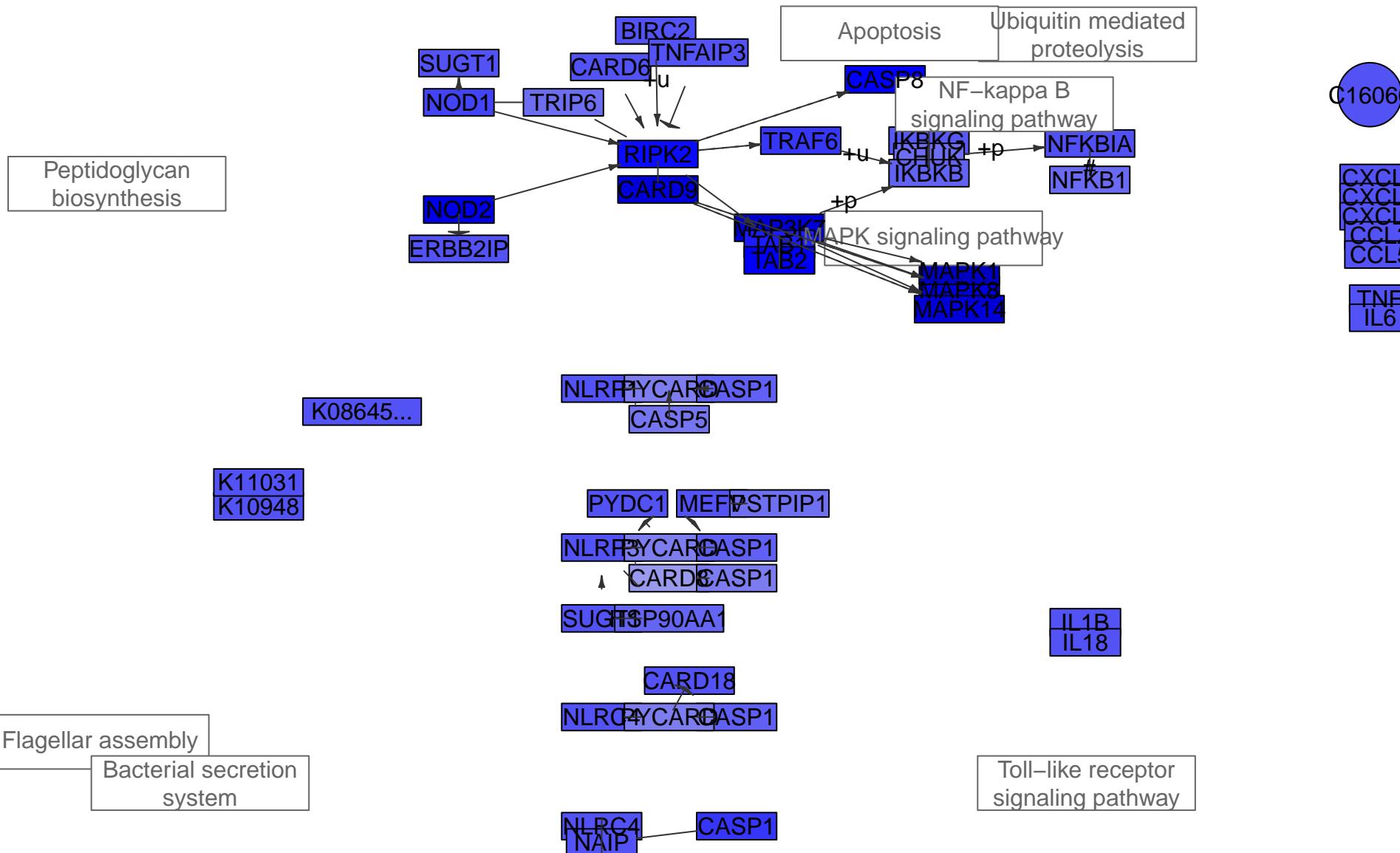
NOD-like receptor
signaling pathway
MPI-009



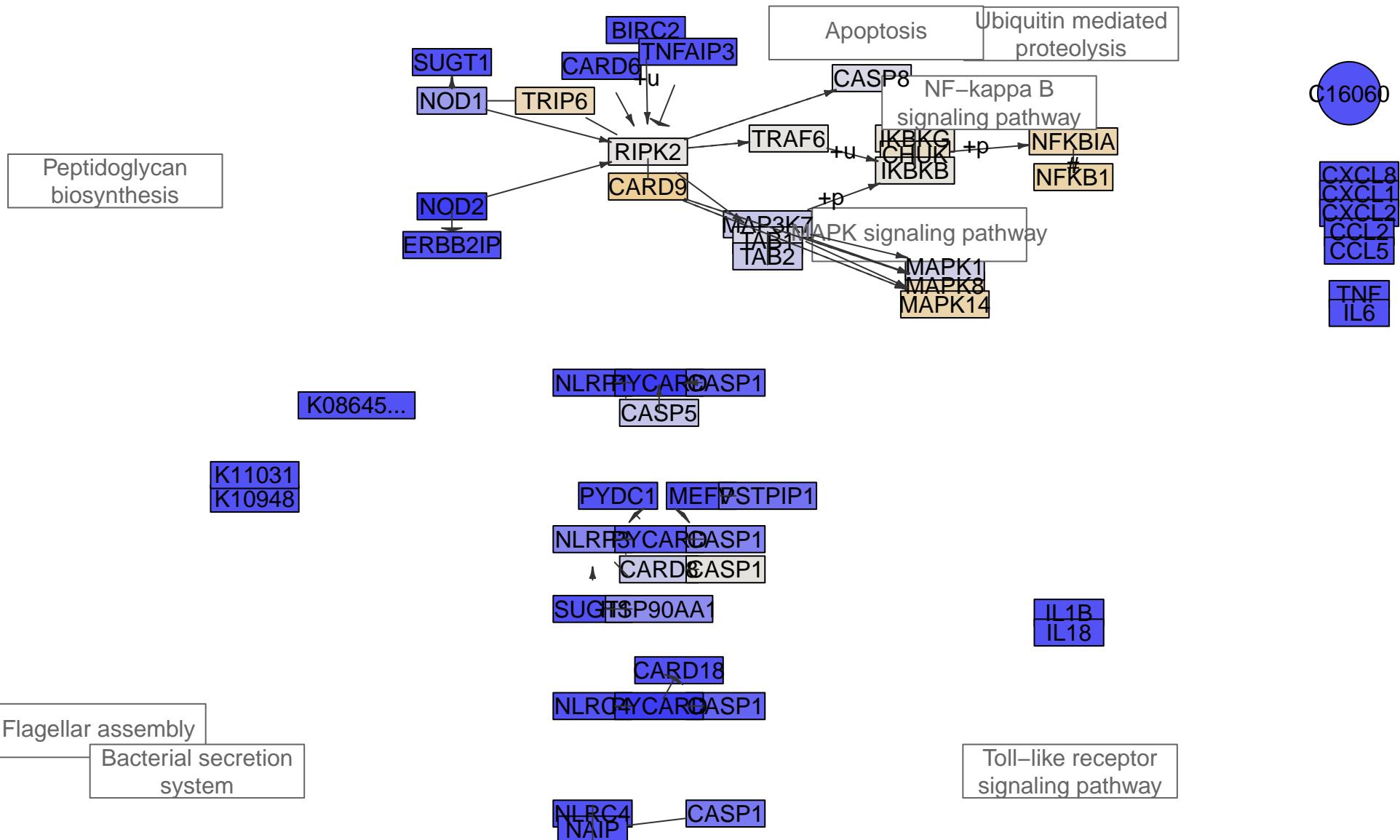
NOD-like receptor
signaling pathway
MPI-010



NOD-like receptor
signaling pathway
MPI-012

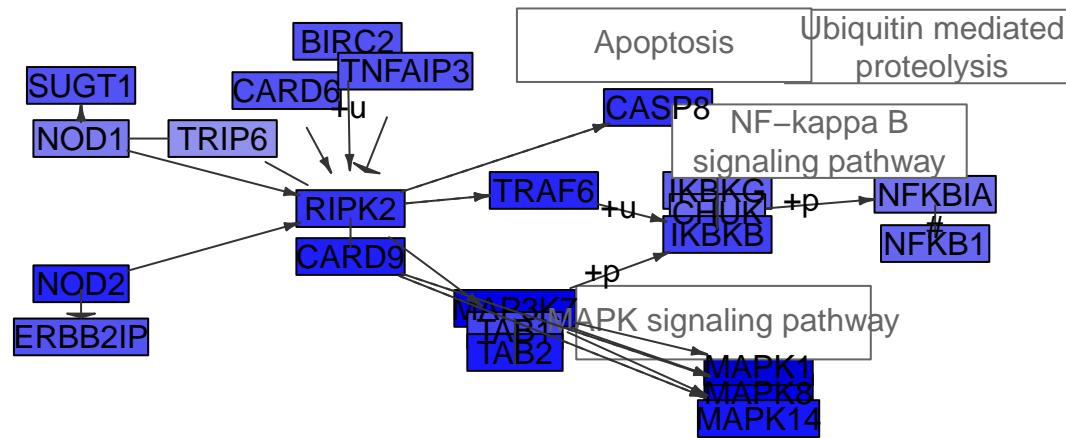


NOD-like receptor
signaling pathway
MPI-013



NOD-like receptor
signaling pathway
MPI-014

Peptidoglycan
biosynthesis



C16060
CXCL8
CXCL1
CXCL2
CCL2
CCL5
TNF
IL6

K08645...

NLRP3YCARDASP1
CASP5

K11031
K10948

PYDC1 MEFV STPIP1
NLRP3YCARDASP1
CARD8CASP1

Flagellar assembly
Bacterial secretion system

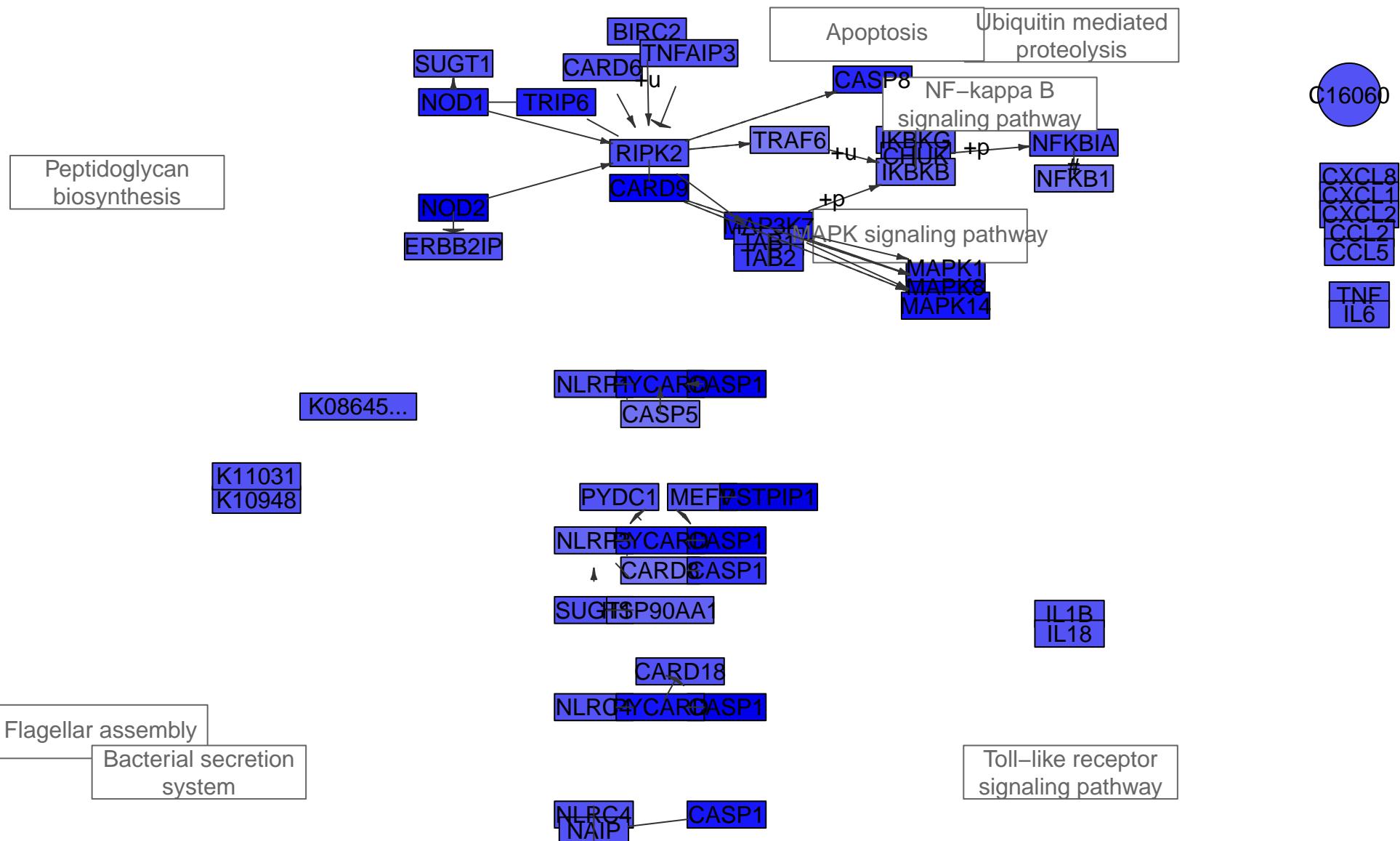
IL1B
IL18

SUGT1\$P90AA1
CARD18
NLRP3YCARDASP1

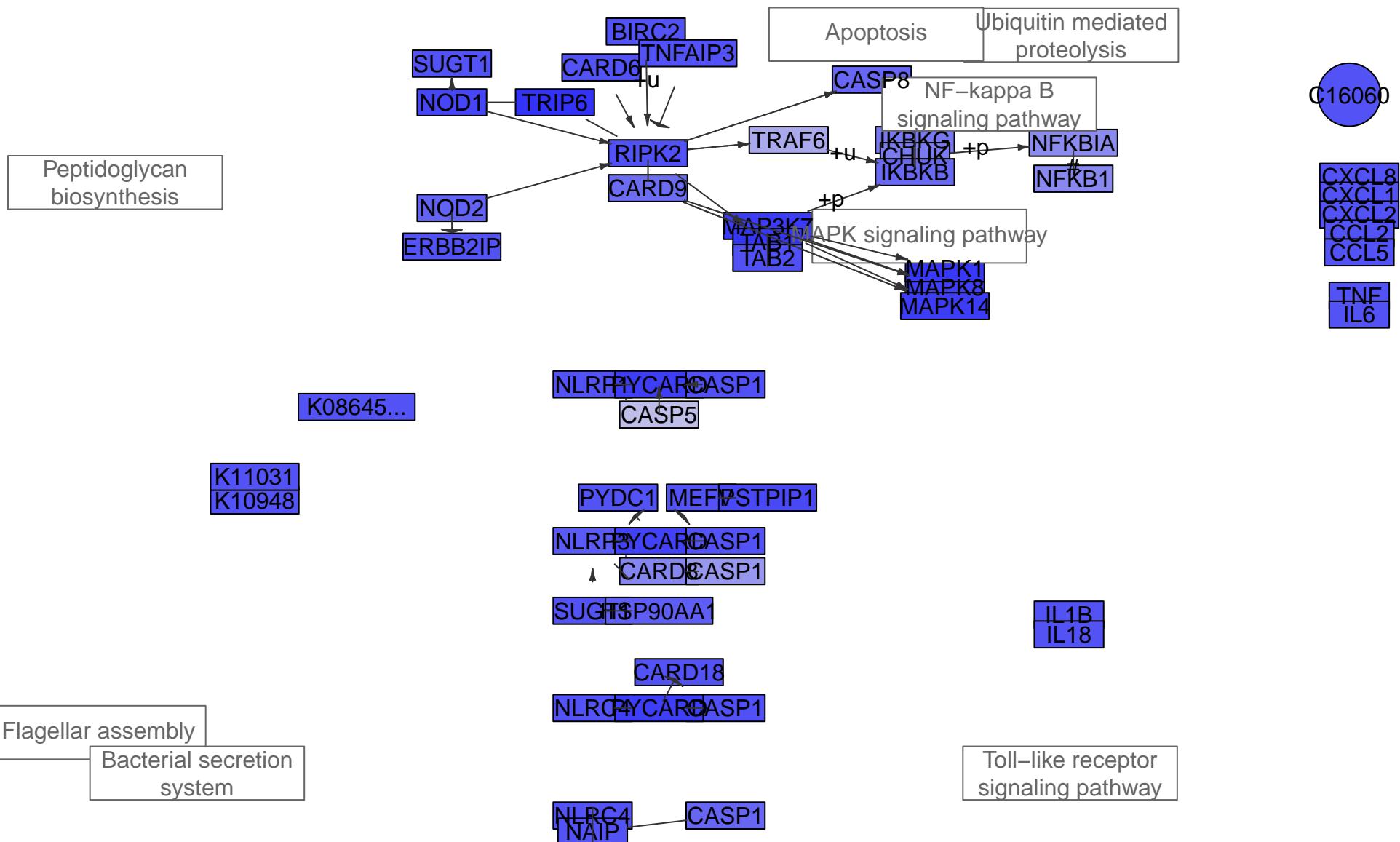
Toll-like receptor
signaling pathway

NLRP4YCARDASP1
CASP1
NLRP4NAIP

NOD-like receptor
signaling pathway
MPI-015

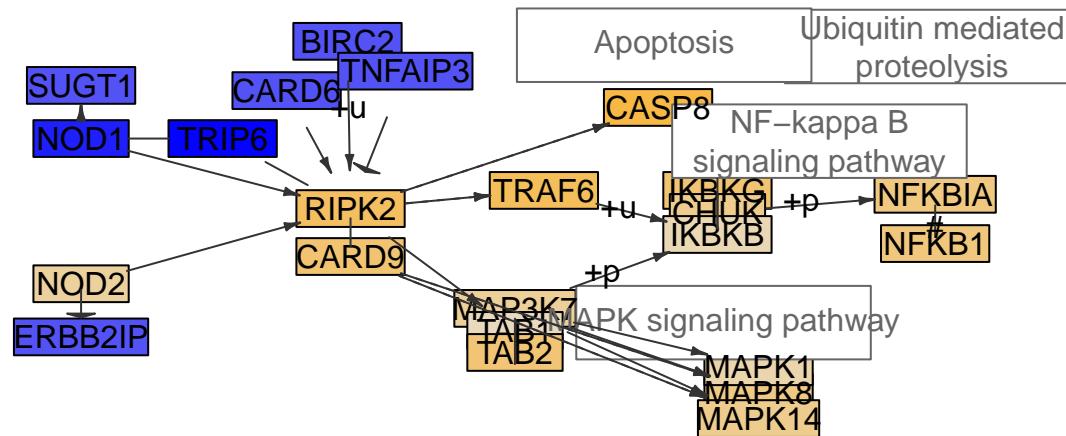


NOD-like receptor
signaling pathway
MPI-021



NOD-like receptor
signaling pathway
MPI-022

Peptidoglycan
biosynthesis



C16060
CXCL8
CXCL1
CXCL2
CCL2
CCL5
TNF
IL6

K08645...

NLRP3PYCARD8CASP1
CASP5

K11031
K10948

PYDC1 MEFV STPIP1
NLRP3PYCARD8CASP1
CARD8CASP1

Flagellar assembly
Bacterial secretion system

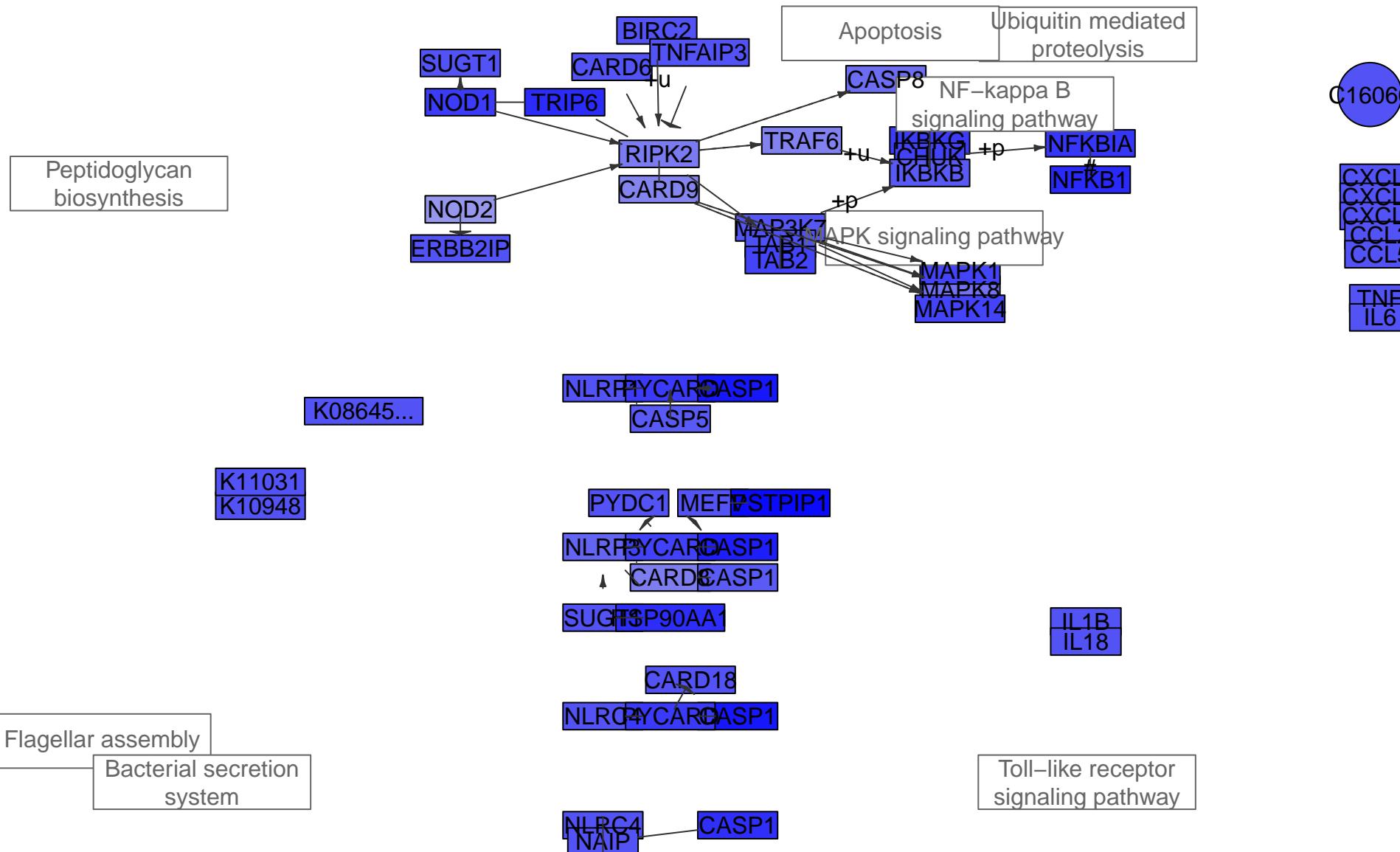
IL1B
IL18

SUGT1\$P90AA1
CARD18
NLRP4PYCARD8CASP1

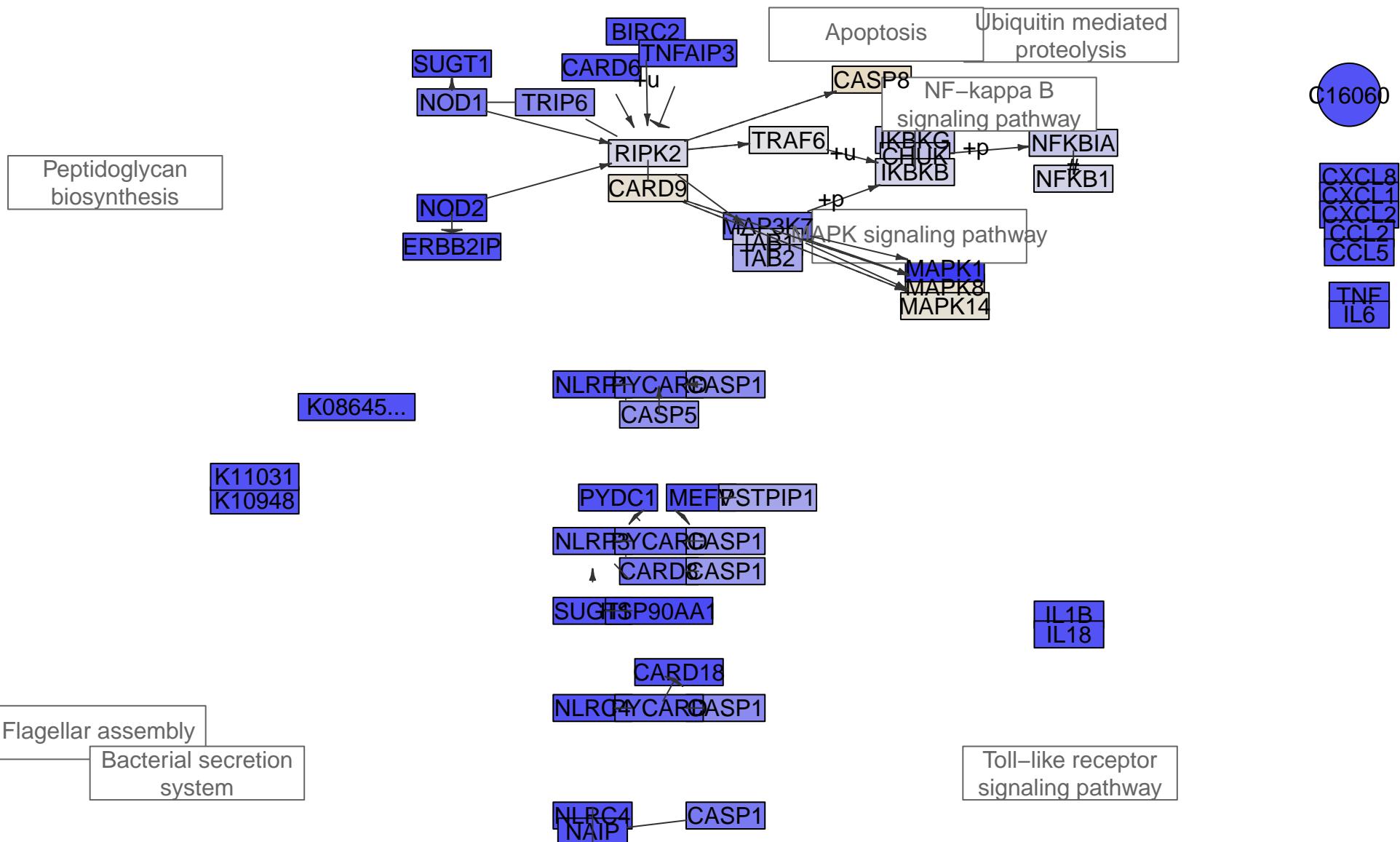
Toll-like receptor
signaling pathway

NLRP4NAIP
CASP1

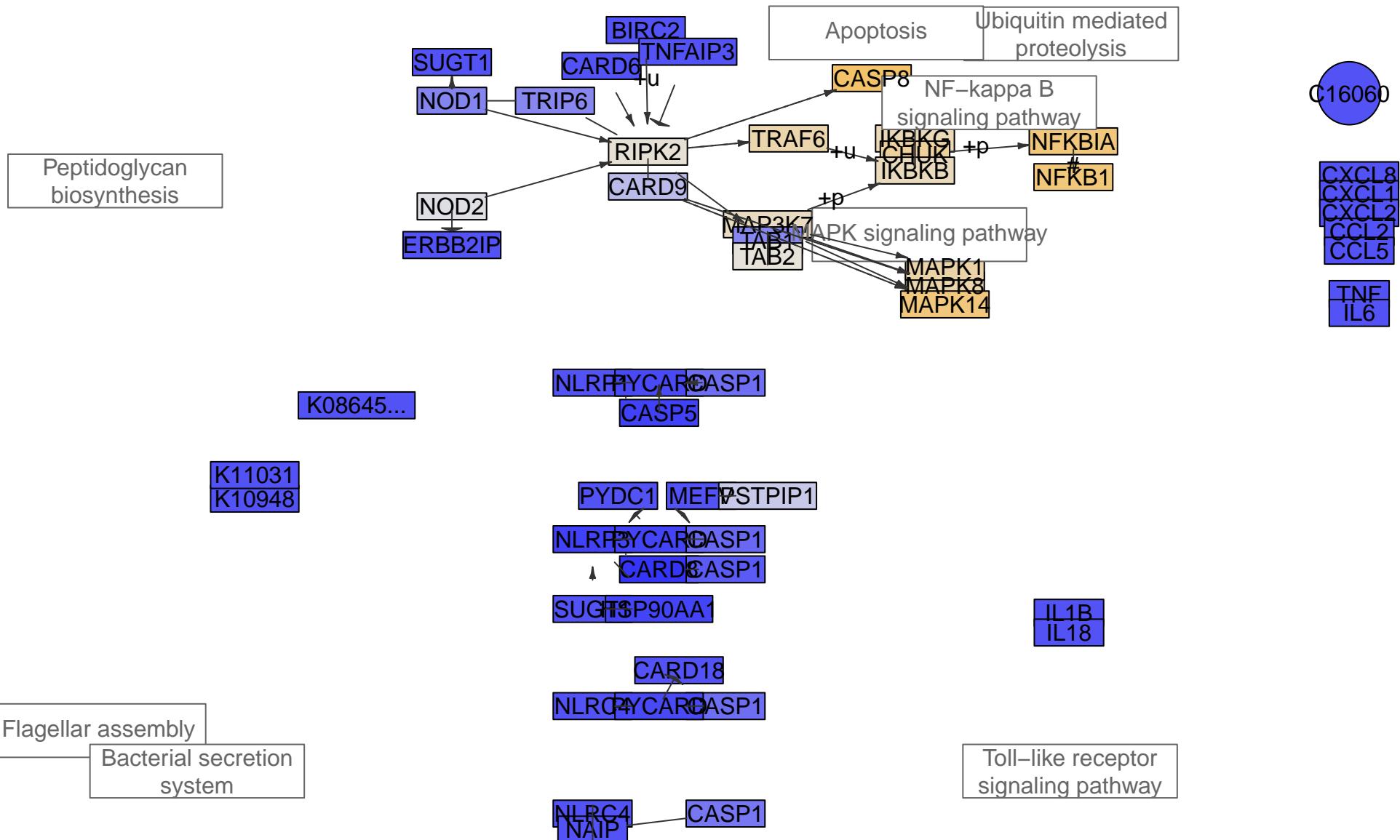
NOD-like receptor
signaling pathway
MPI-025



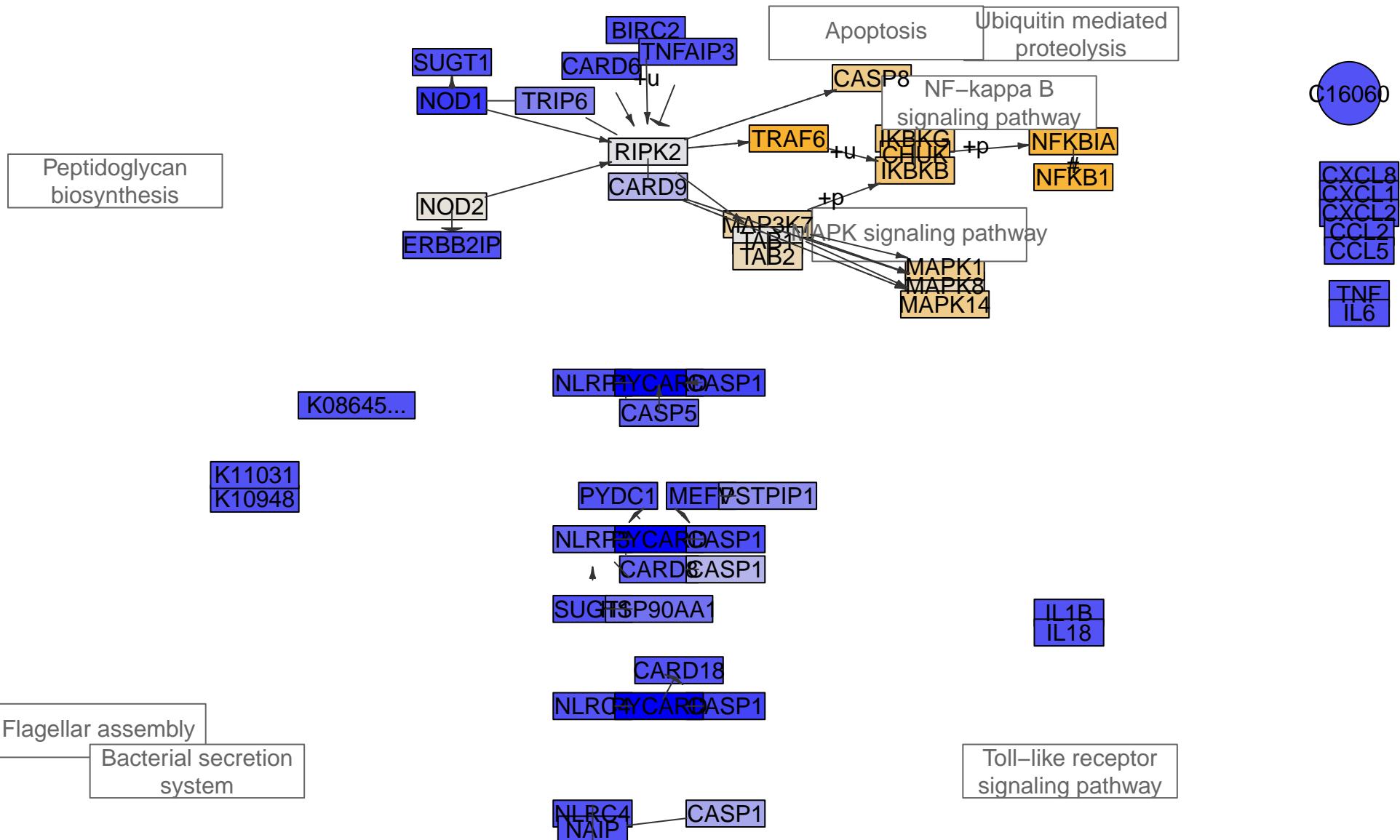
NOD-like receptor
signaling pathway
MPI-029



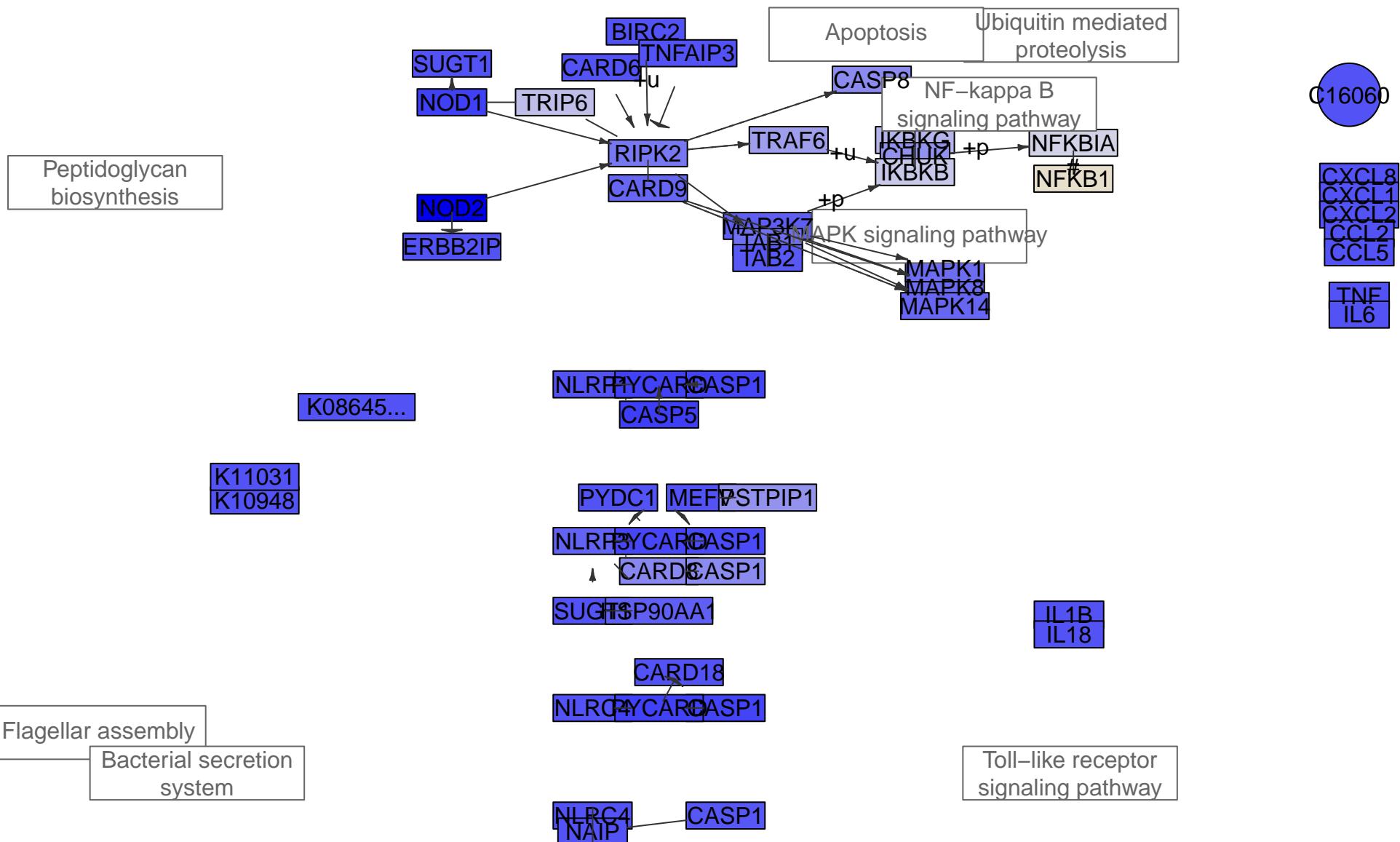
NOD-like receptor
signaling pathway
MPI=030



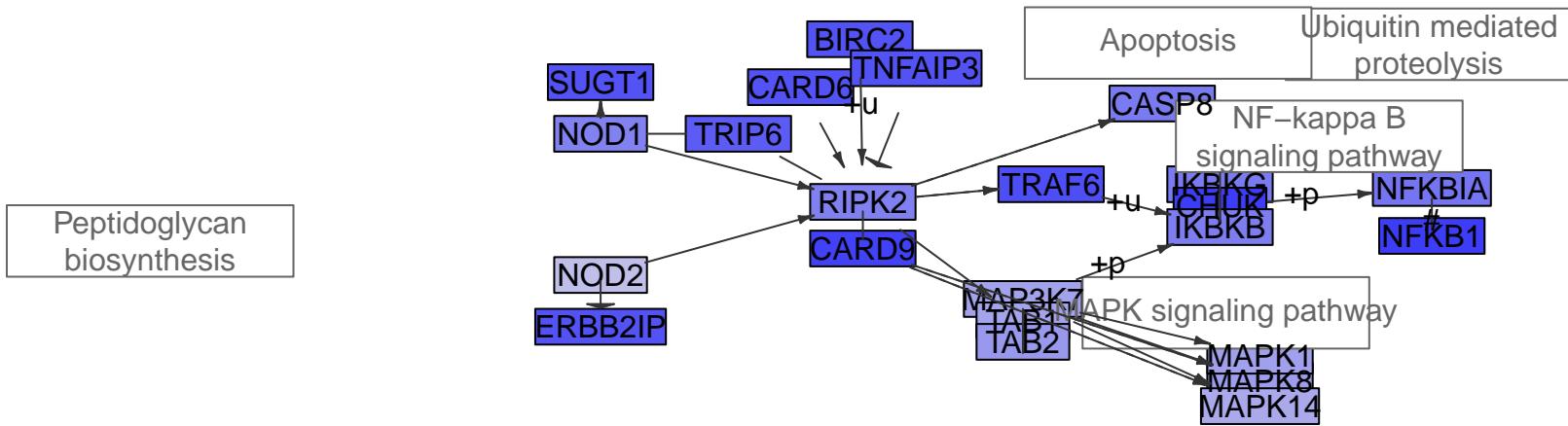
NOD-like receptor
signaling pathway
MPI-031



NOD-like receptor
signaling pathway
MPI-039



NOD-like receptor signaling pathway MPI-040



C16060

**CXCL8
CXCL1
CXCL2
CCL2
CCL5**

K08645...

NLRP1/CARD/CASP1
CASP5

K11031
K10948

The diagram illustrates gene overlap. At the top, three genes are shown in blue boxes: PYDC1, MEF2, and STPIP1. Arrows point from each of these genes to a row of four genes below them, which are also in blue boxes: NLRP3, CYC, CARD8, and CASP1. Below this row, another row of four genes is shown in white boxes: CARD8, CASP1, CARD8, and CASP1. An arrow points from the bottom-left CARD8 gene to the bottom-right CASP1 gene.

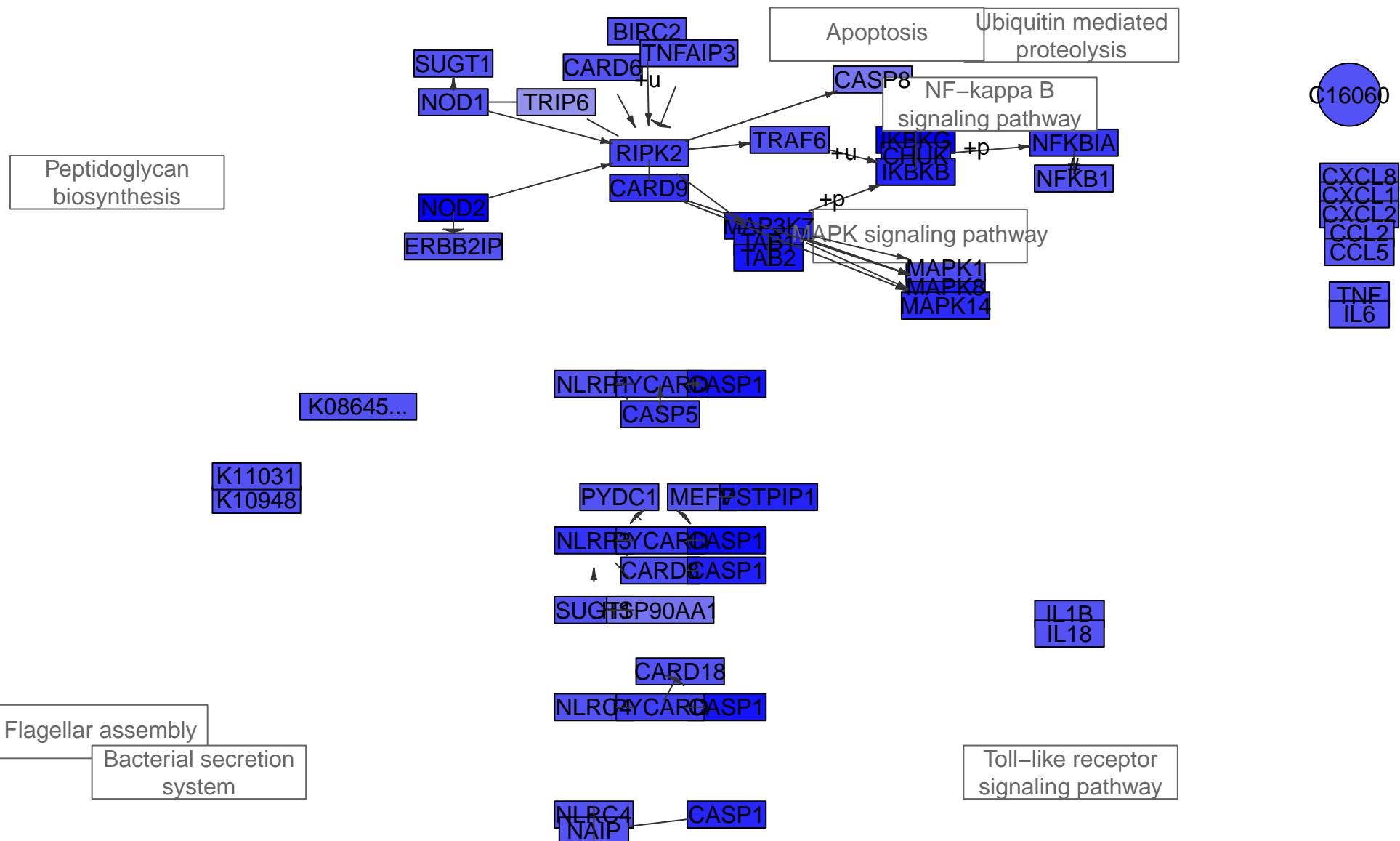
IL1B
IL18

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graph TD; A[Flagellar assembly] --> B[Bacterial secretion system]
```

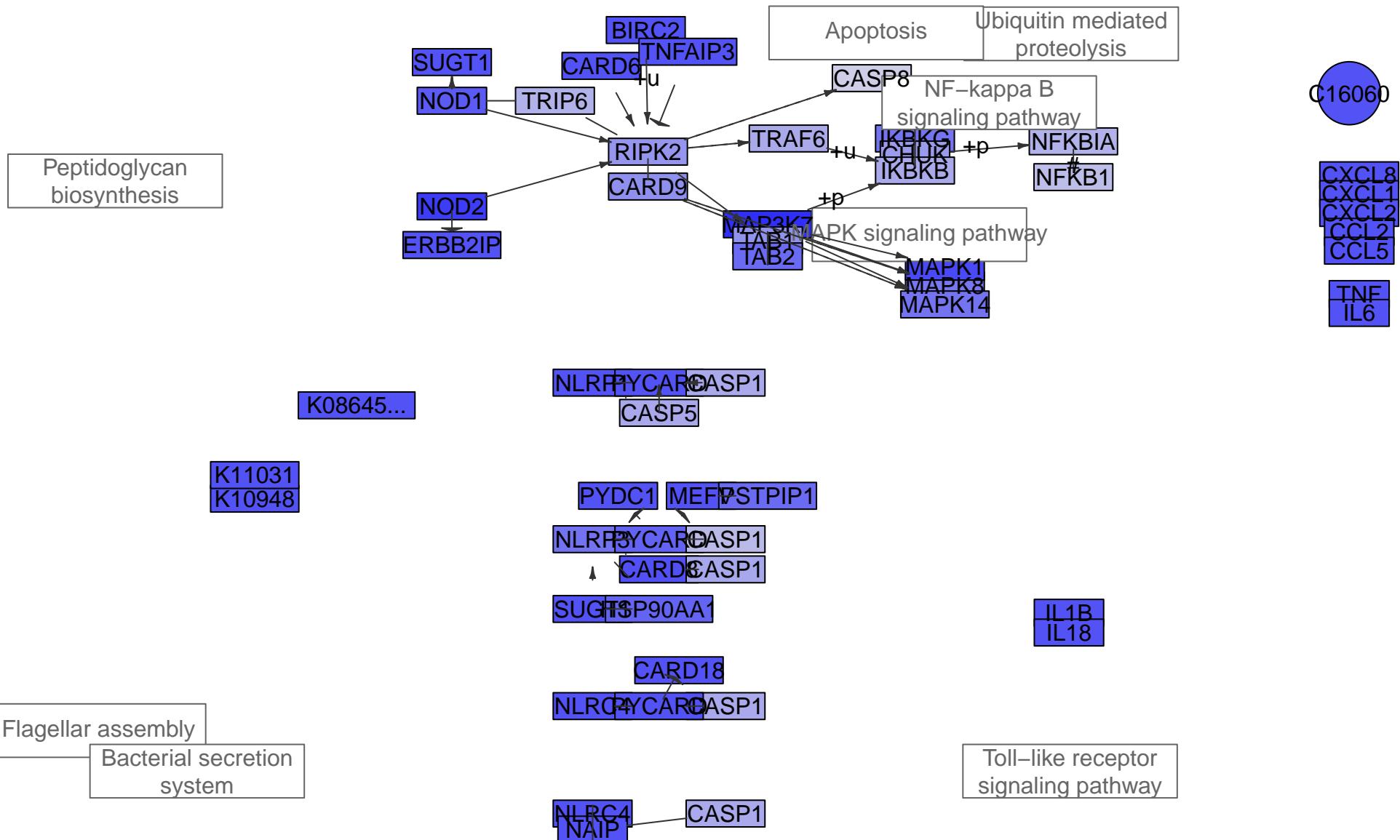
Toll-like receptor signaling pathway

A diagram showing two rectangular boxes representing proteins. The left box is blue and contains the text 'NLRP4' above 'NAIP'. An arrow points from the right side of this box to the left side of a second, also blue, rectangular box containing the text 'CASP1'.

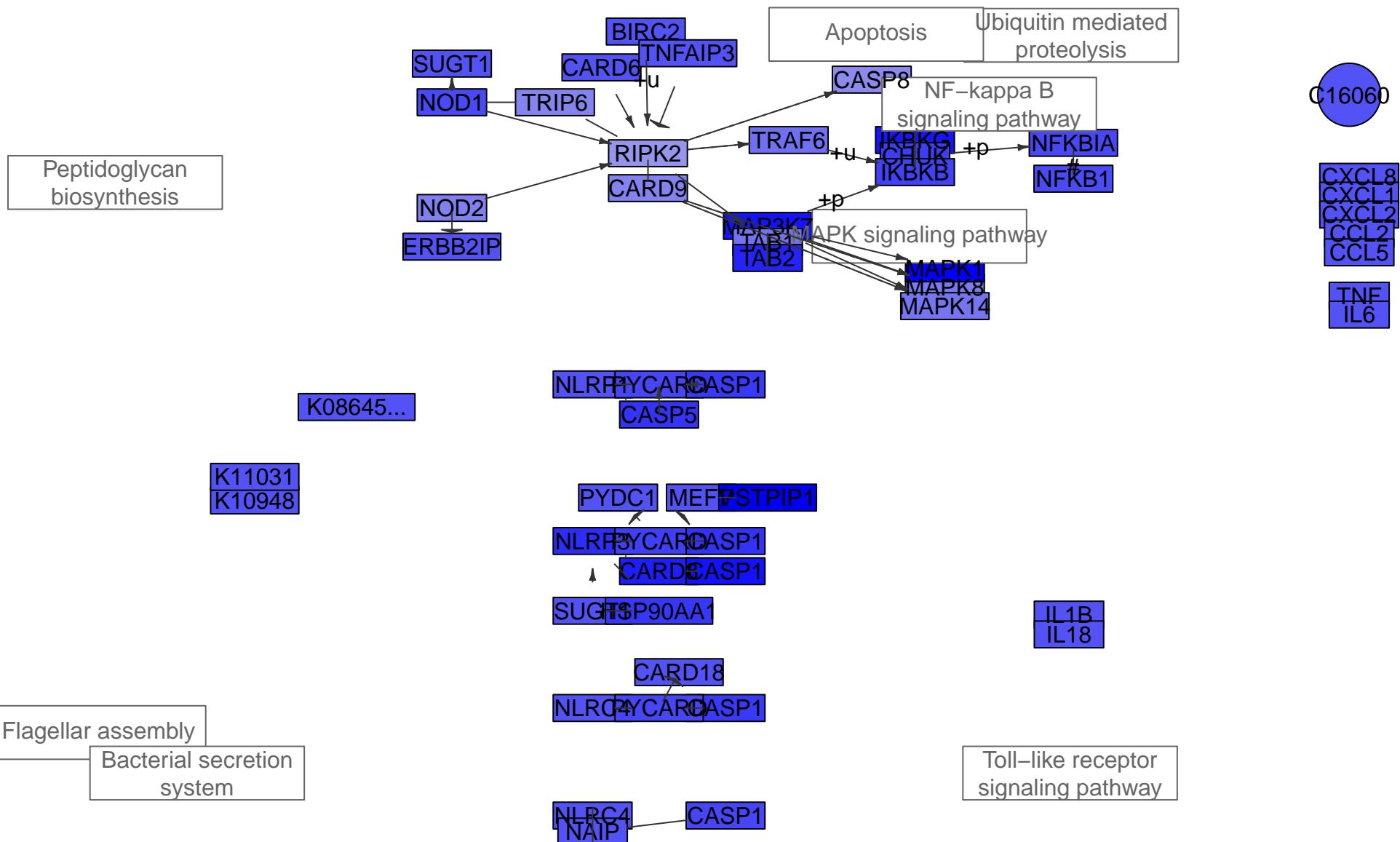
NOD-like receptor
signaling pathway
MPI-045



NOD-like receptor
signaling pathway
MPI-047

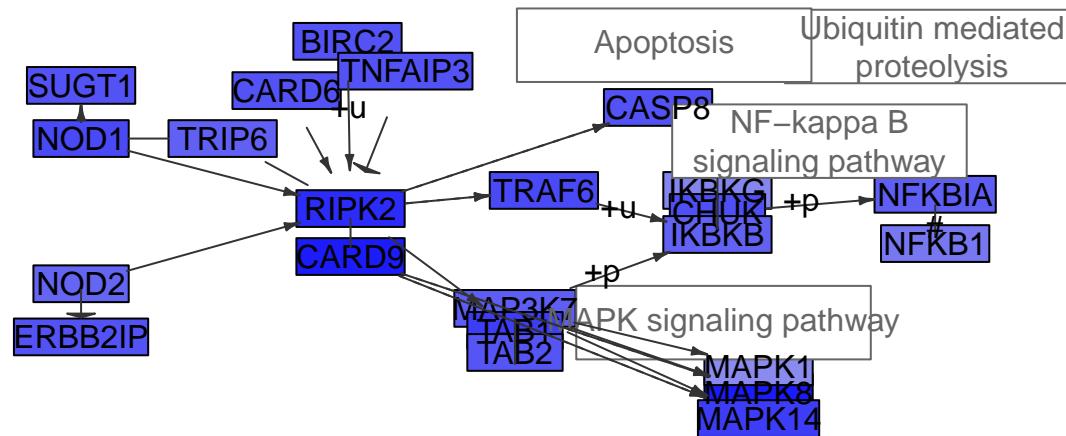


NOD-like receptor
signaling pathway
MPI-053



NOD-like receptor
signaling pathway
MPI-062

Peptidoglycan
biosynthesis



C16060

CXCL8
CXCL1
CXCL2
CCL2
CCL5
TNF
IL6

K08645...

K11031
K10948

NLRP4/CARD/CASP1
CASP5

PYDC1 MEFV PSTPIP1
NLRP3/CARD/CASP1
CARD8/CASP1

SUGT1 SP90AA1

IL1B
IL18

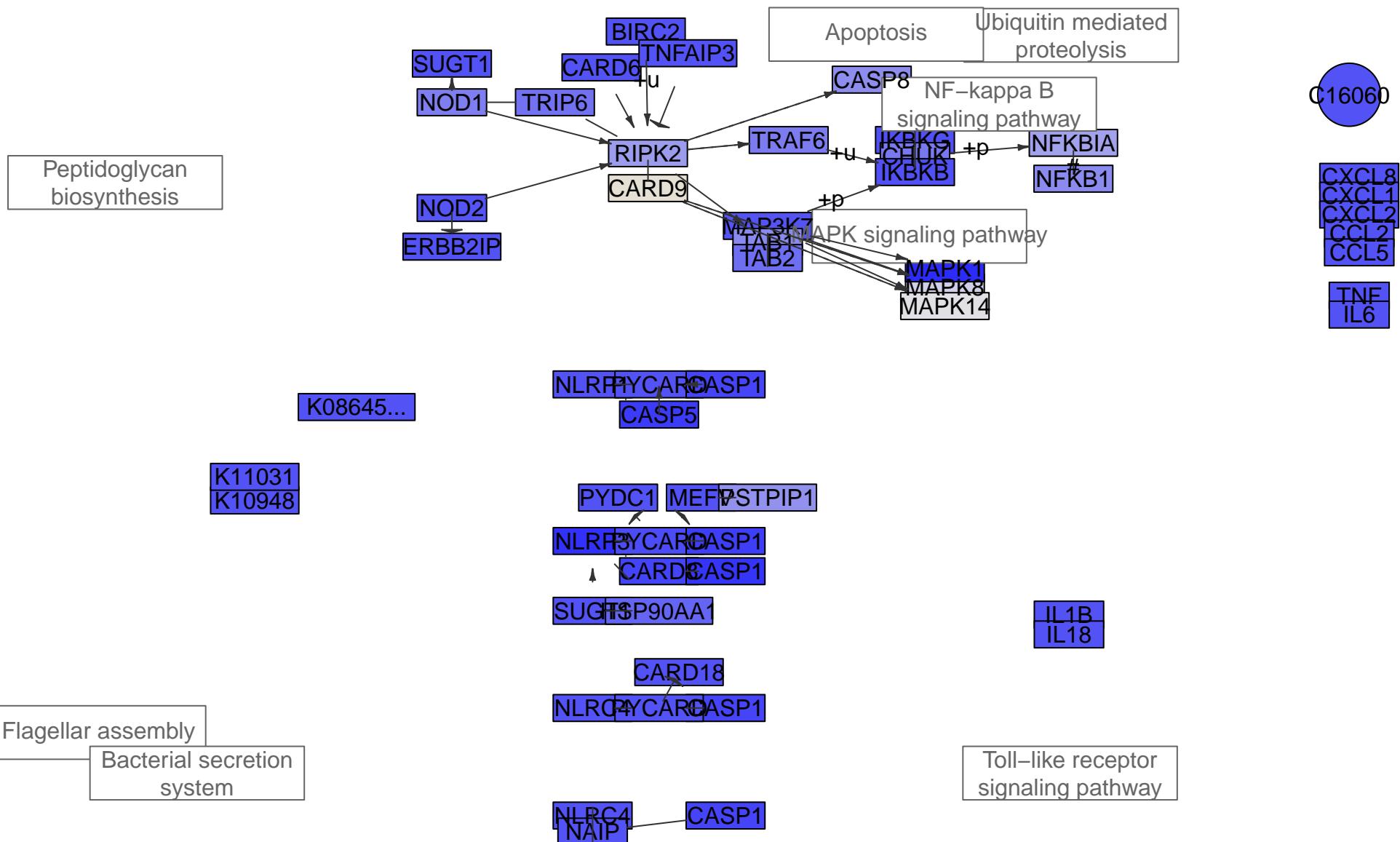
CARD18
NLRP4/CARD/CASP1

Flagellar assembly
Bacterial secretion system

Toll-like receptor
signaling pathway

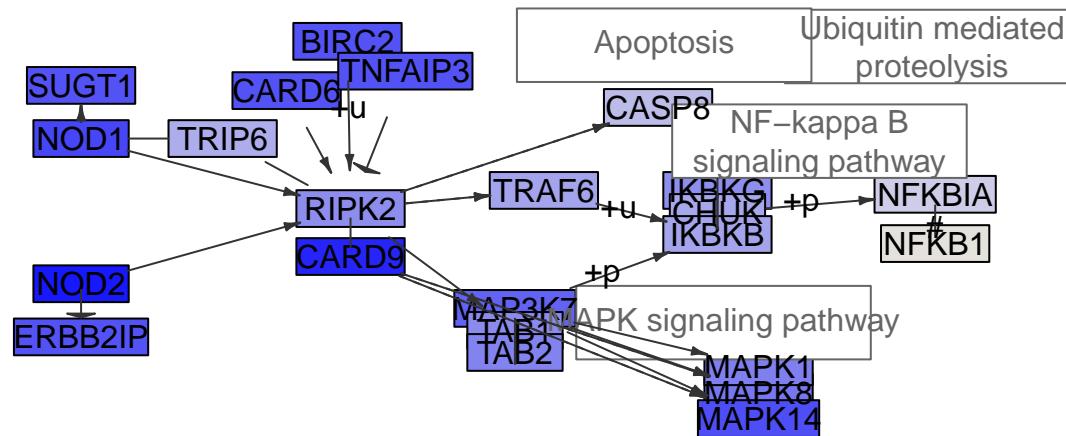
NLRP4 NAIP
CASP1

NOD-like receptor
signaling pathway
MPI-063



NOD-like receptor
signaling pathway
MPI-069

Peptidoglycan
biosynthesis



C16060
CXCL8
CXCL1
CXCL2
CCL2
CCL5
TNF
IL6

K08645...

NLRP3YCARDASP1
CASP5

K11031
K10948

PYDC1 MEF17 STPIP1
NLRP3YCARDASP1
CARD8CASP1

Flagellar assembly
Bacterial secretion system

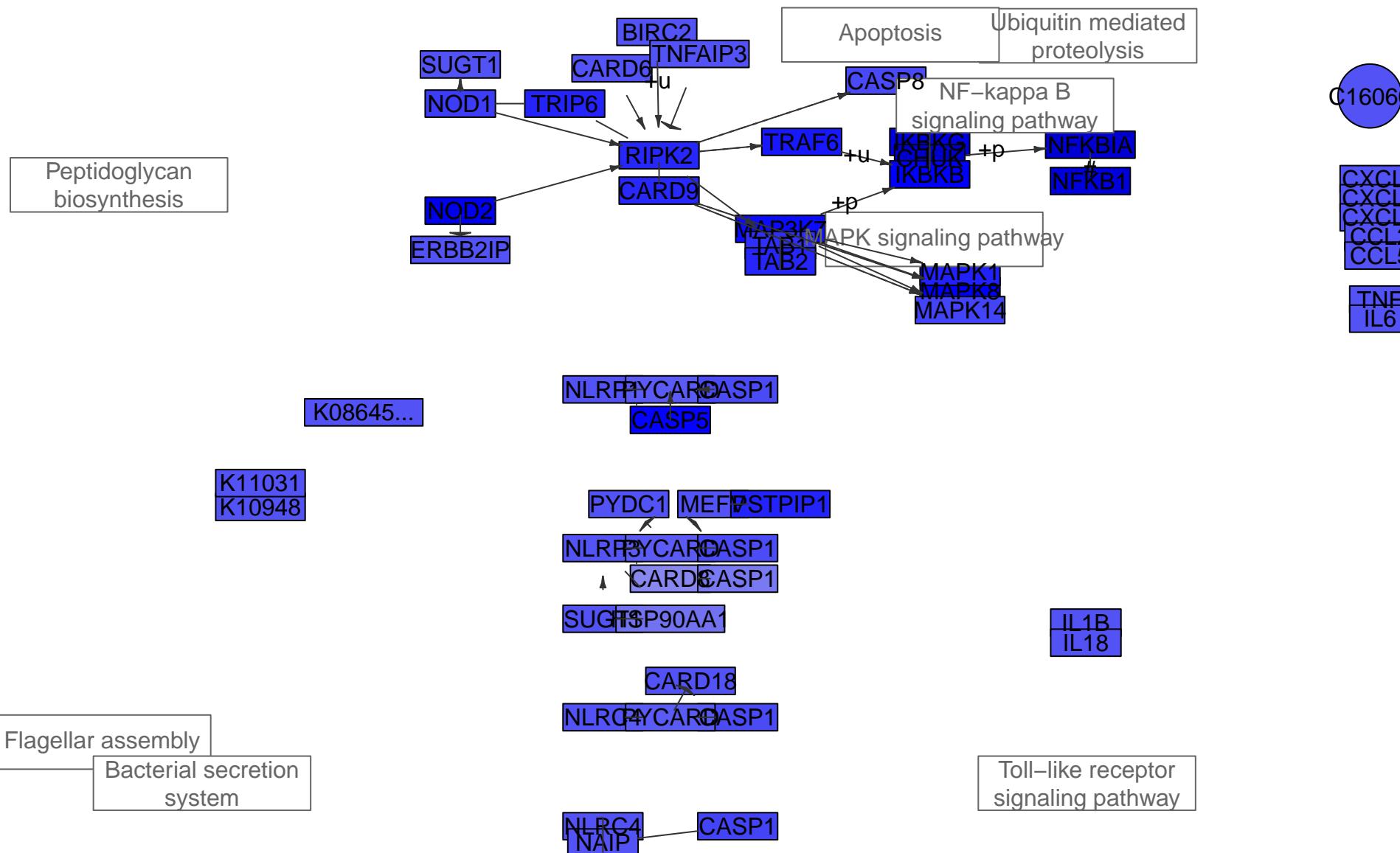
IL1B
IL18

SUGT1SP90AA1
CARD18
NLRP3YCARDASP1

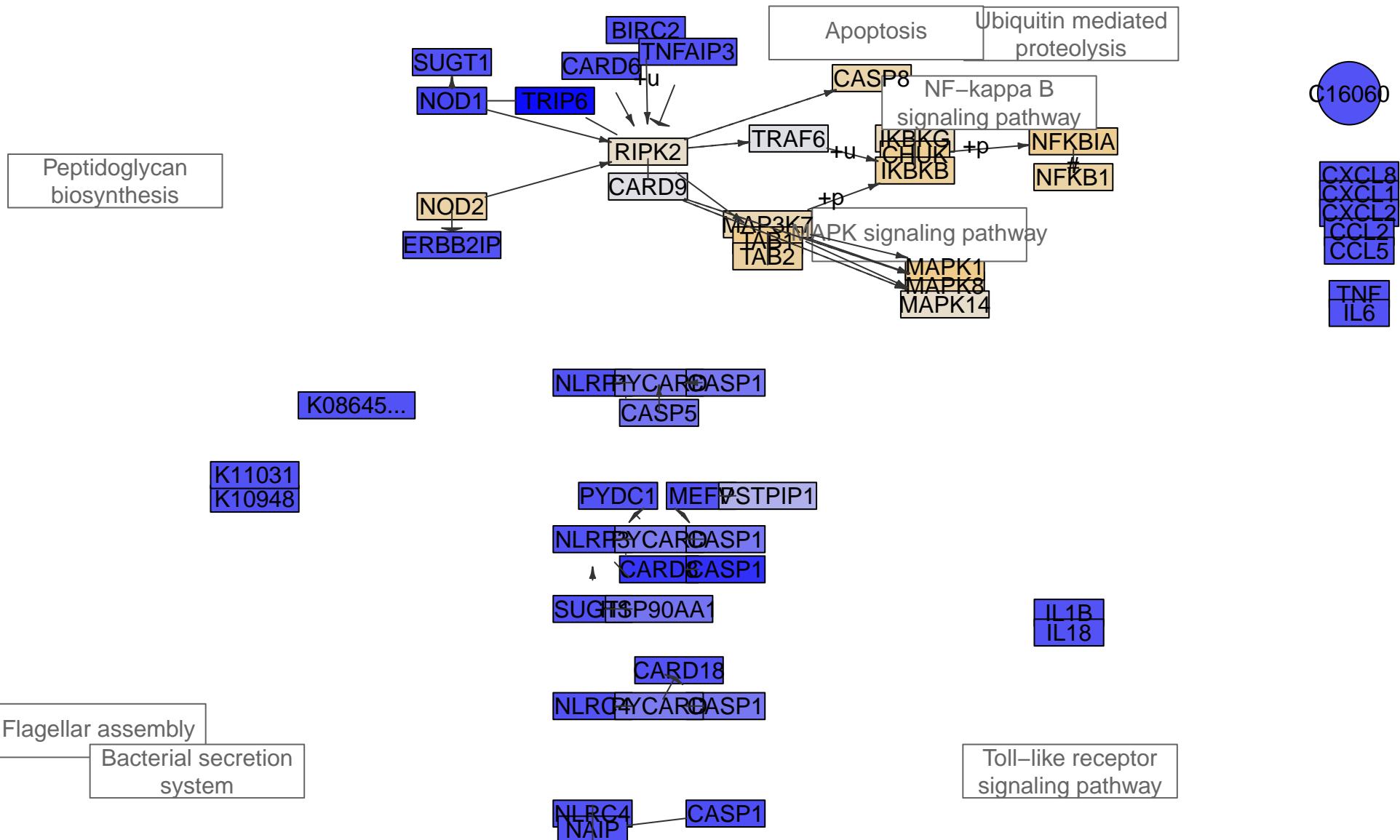
Toll-like receptor
signaling pathway

NLRP4YCARDASP1
CASP1

NOD-like receptor
signaling pathway
MPI-073

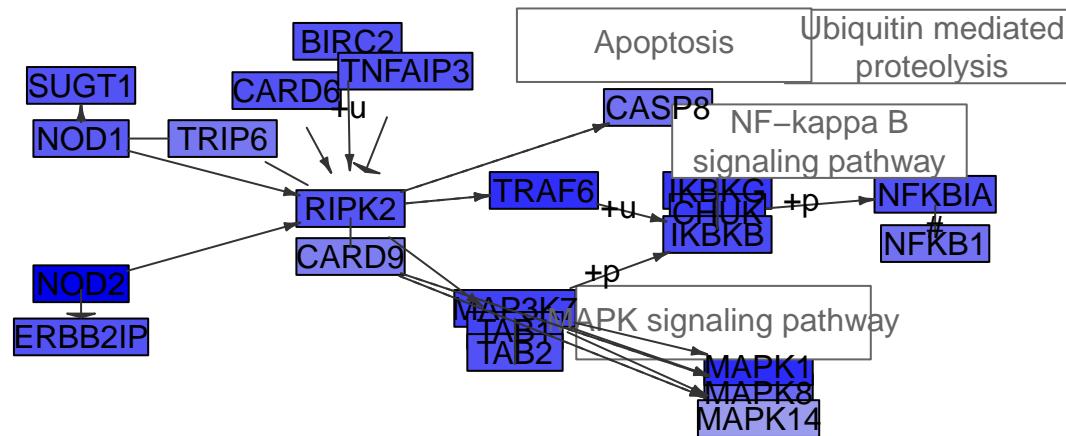


NOD-like receptor
signaling pathway
MPI-074



NOD-like receptor
signaling pathway
MPI-076

Peptidoglycan
biosynthesis



C16060
CXCL8
CXCL1
CXCL2
CCL2
CCL5
TNF
IL6

K08645...

NLRPF3YCARDASP1
CASP5

K11031
K10948

PYDC1 MEFV STPIP1
NLRPF3YCARDASP1
CARD8ASP1

Flagellar assembly
Bacterial secretion system

IL1B
IL18

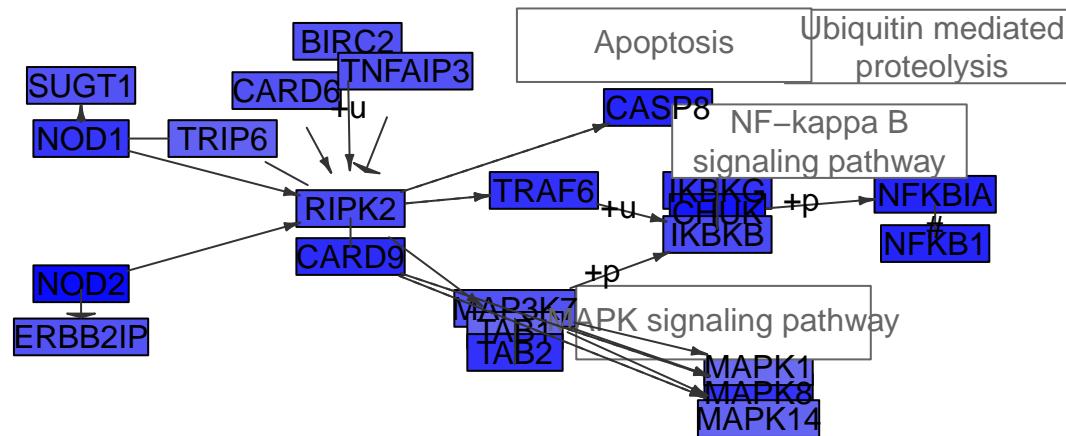
SUGT1\$P90AA1
CARD18
NLRPF4YCARDASP1

Toll-like receptor
signaling pathway

NLRPF4YCARDASP1
CASP1

NOD-like receptor
signaling pathway
MPI-083

Peptidoglycan
biosynthesis



C16060
CXCL8
CXCL1
CXCL2
CCL2
CCL5
TNF
IL6

K08645...

NLRP3YCARD8CASP1
CASP5

K11031
K10948

PYDC1 MEF17 STPIP1
NLRP3YCARD8CASP1
CARD8CASP1

Flagellar assembly
Bacterial secretion system

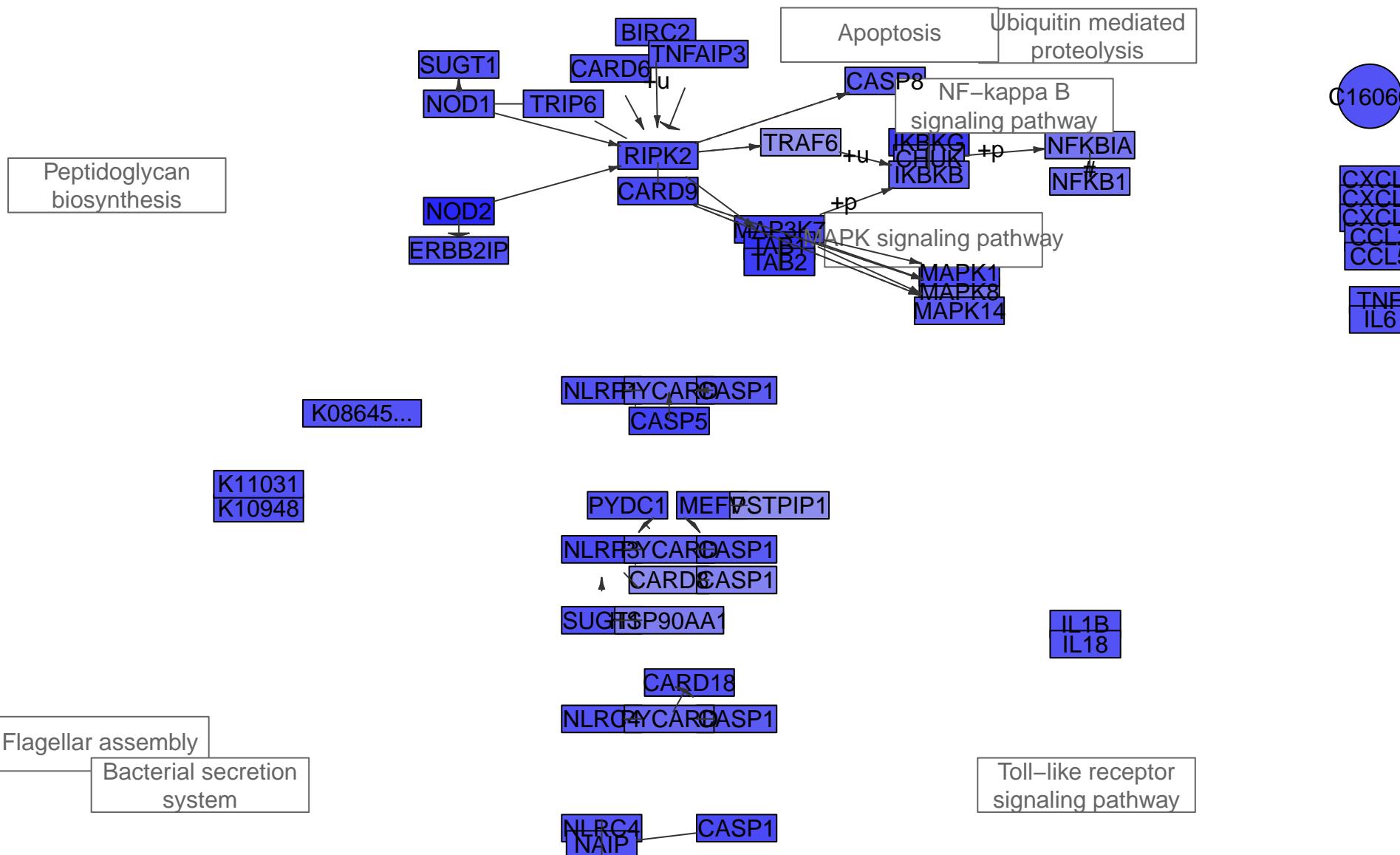
IL1B
IL18

SUGT1\$P90AA1
CARD18
NLRP4YCARD8CASP1

Toll-like receptor
signaling pathway

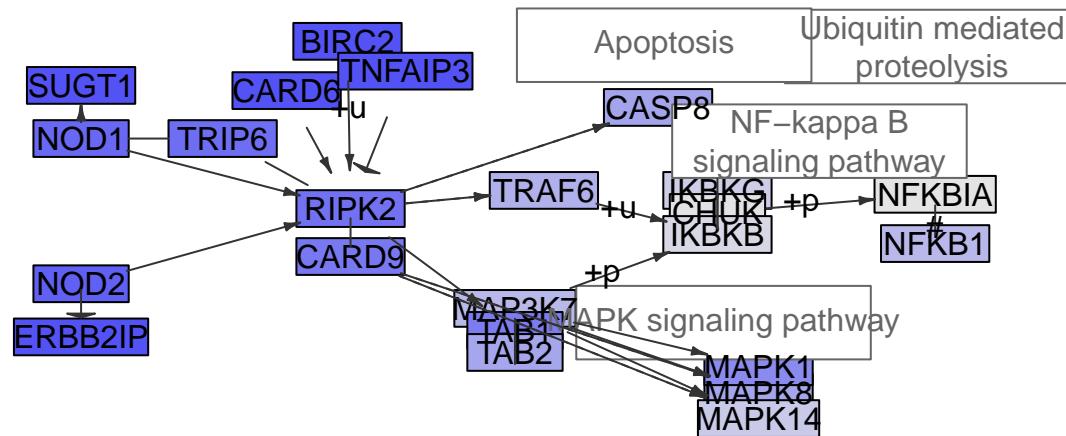
NLRP4
NAIP
CASP1

NOD-like receptor
signaling pathway
MPI-088



NOD-like receptor
signaling pathway
MPI-092

Peptidoglycan
biosynthesis



C16060
CXCL8
CXCL1
CXCL2
CCL2
CCL5
TNF
IL6

K08645...

NLRP3PYCARD8CASP1
CASP5

K11031
K10948

PYDC1 MEFV STPIP1
NLRP3PYCARD8CASP1
CARD8CASP1

Flagellar assembly
Bacterial secretion system

IL1B
IL18

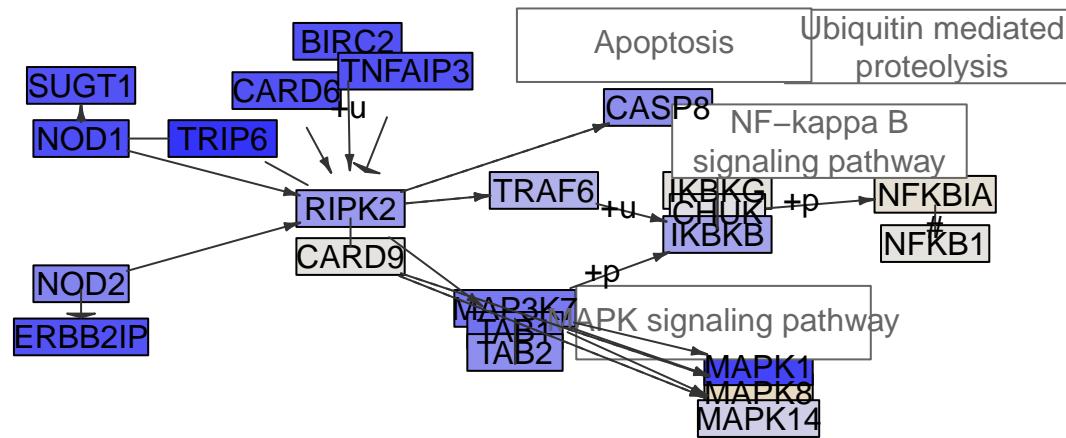
SUGT1SP90AA1
CARD18
NLRP4PYCARD8CASP1

Toll-like receptor
signaling pathway

NLRP4NAIP
CASP1

NOD-like receptor
signaling pathway
MPI-096

Peptidoglycan
biosynthesis



C16060
CXCL8
CXCL1
CXCL2
CCL2
CCL5
TNF
IL6

K08645...

NLRP3PYCARD8CASP1
CASP5

K11031
K10948

PYDC1 MEFV STPIP1
NLRP3PYCARD8CASP1
CARD8CASP1

Flagellar assembly
Bacterial secretion system

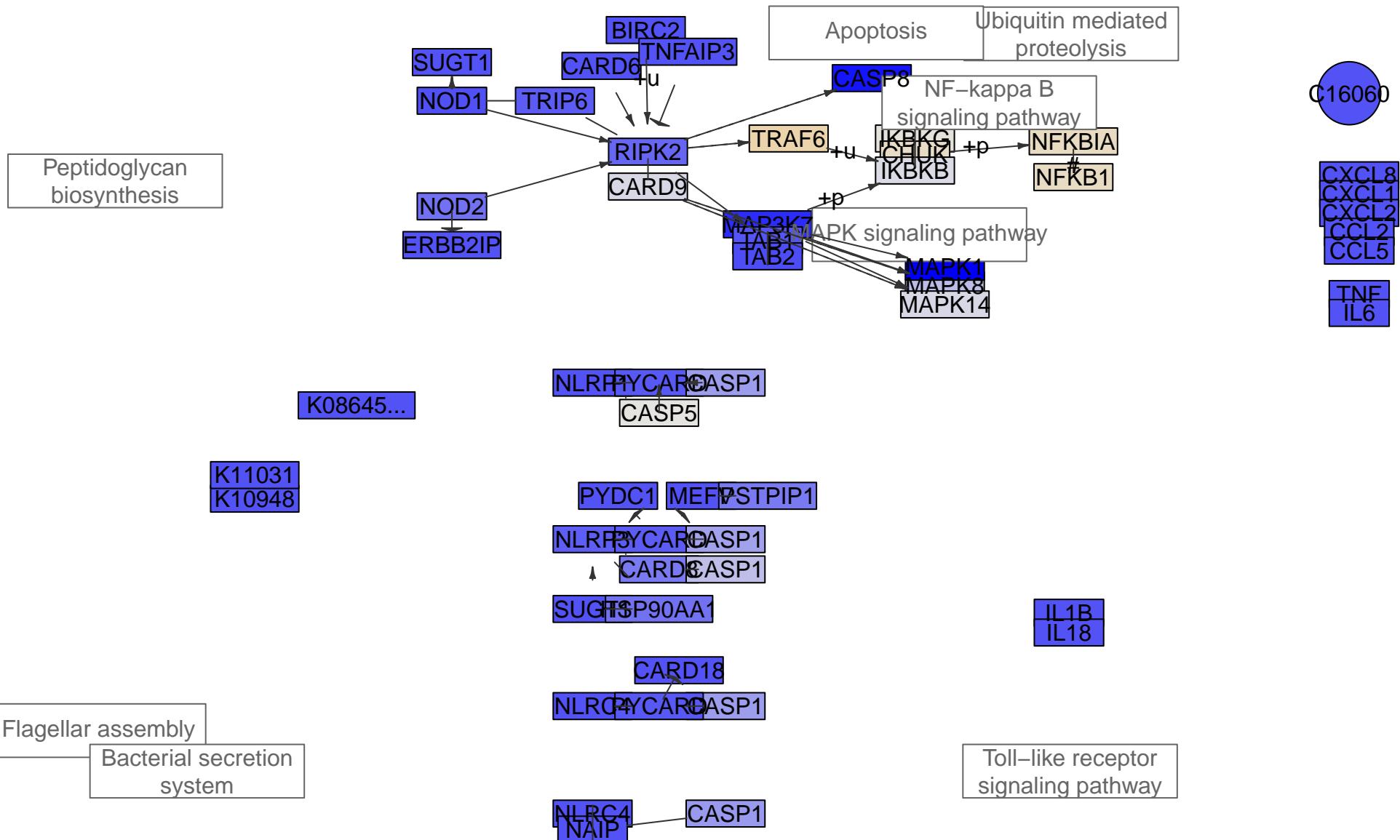
IL1B
IL18

SUGT1 SP90AA1
CARD18
NLRP4PYCARD8CASP1

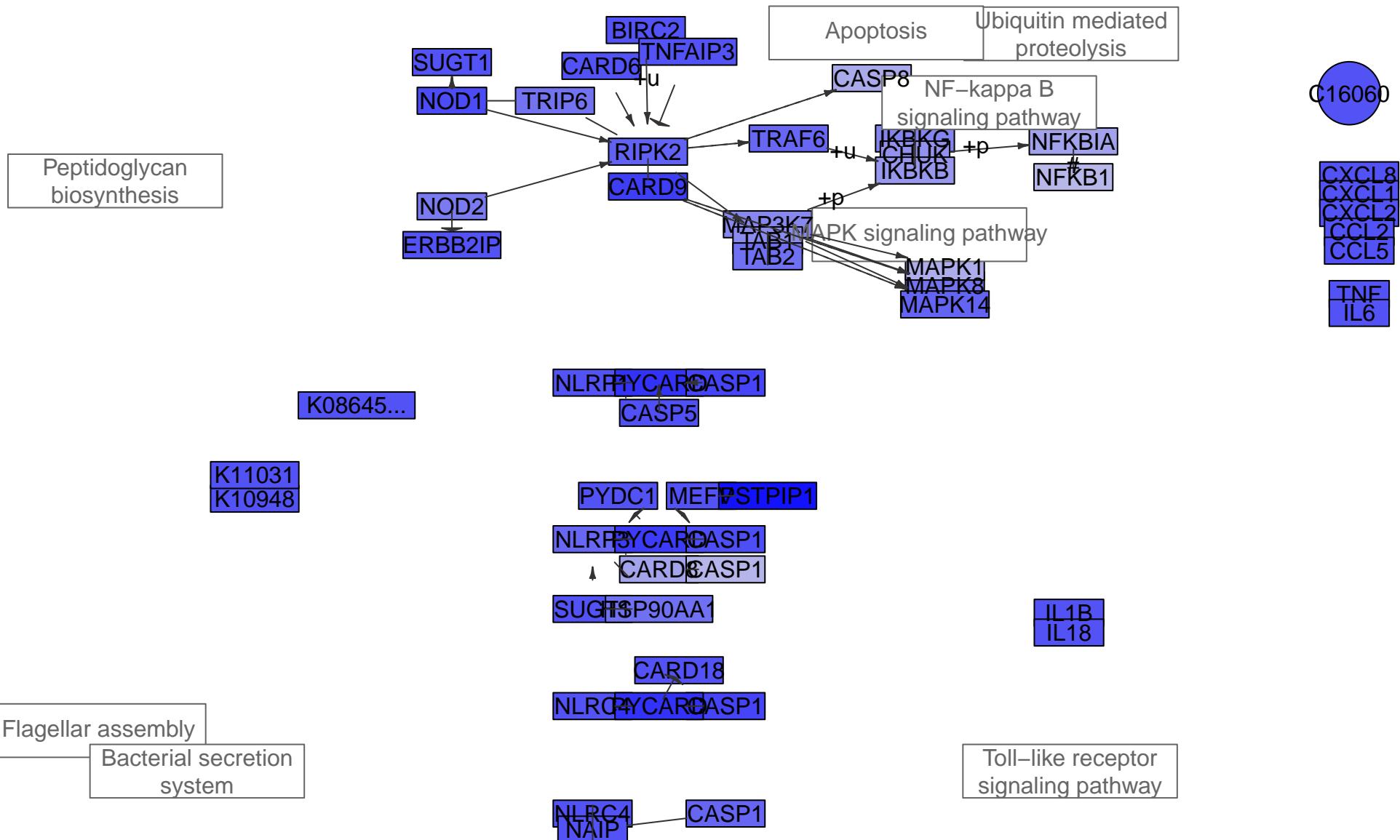
Toll-like receptor
signaling pathway

NLRP4 NAIP
CASP1

NOD-like receptor
signaling pathway
MPI-098

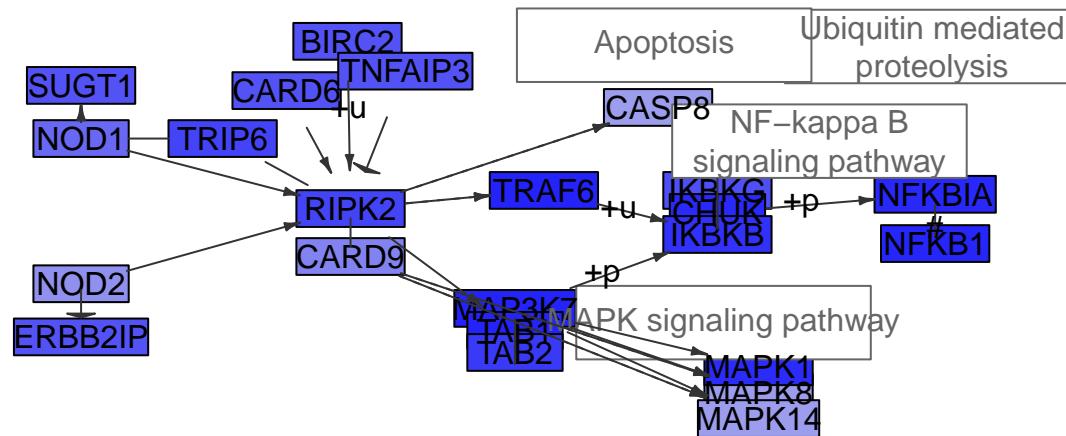


NOD-like receptor
signaling pathway
MPI=100



NOD-like receptor
signaling pathway
MPI-105

Peptidoglycan
biosynthesis



C16060
CXCL8
CXCL1
CXCL2
CCL2
CCL5
TNF
IL6

K08645...

NLRP3YCARD8CASP1
CASP5

K11031
K10948

PYDC1 MEFV PSTPIP1
NLRP3YCARD8CASP1
CARD8CASP1

Flagellar assembly
Bacterial secretion system

SUGT1\$P90AA1

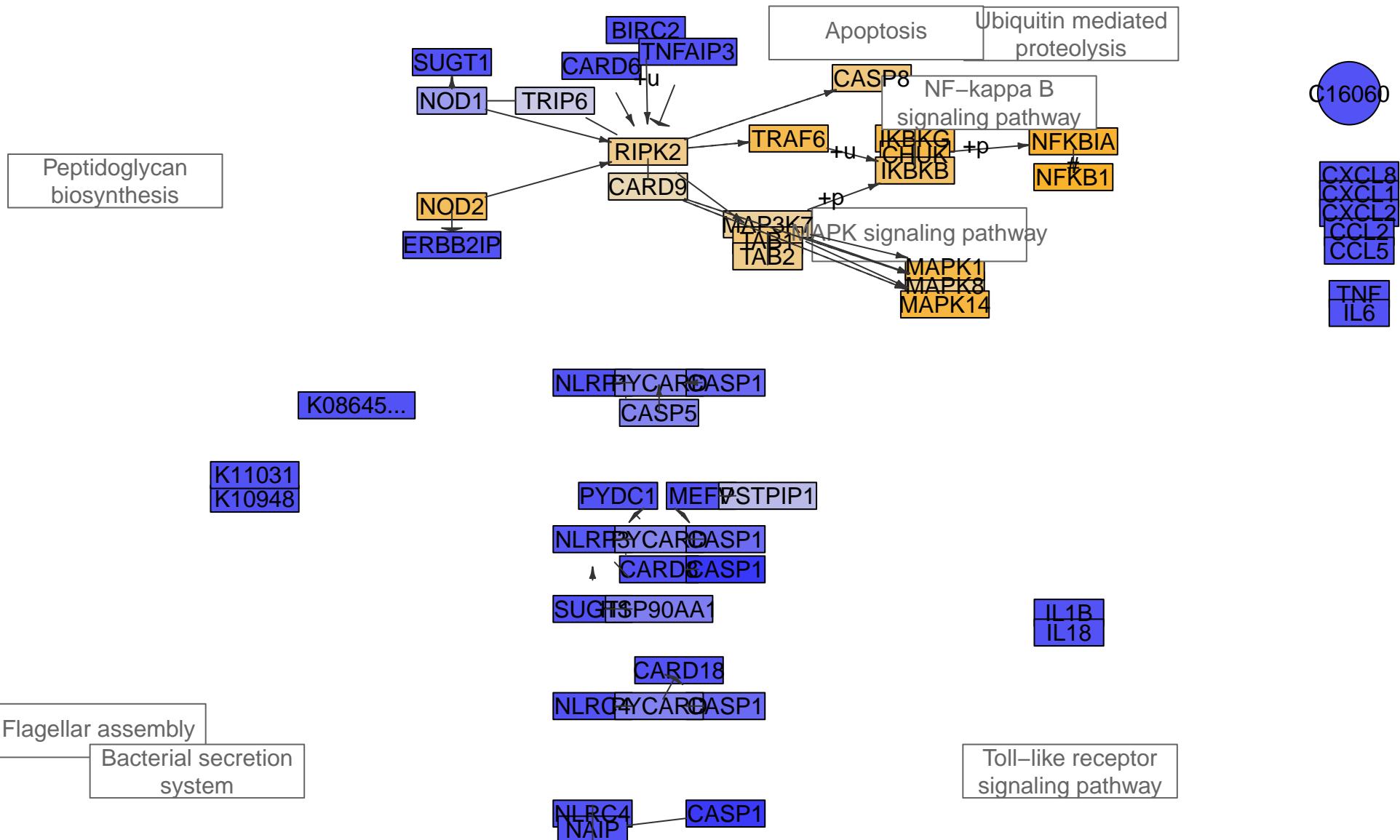
IL1B
IL18

CARD18
NLRP4YCARD8CASP1

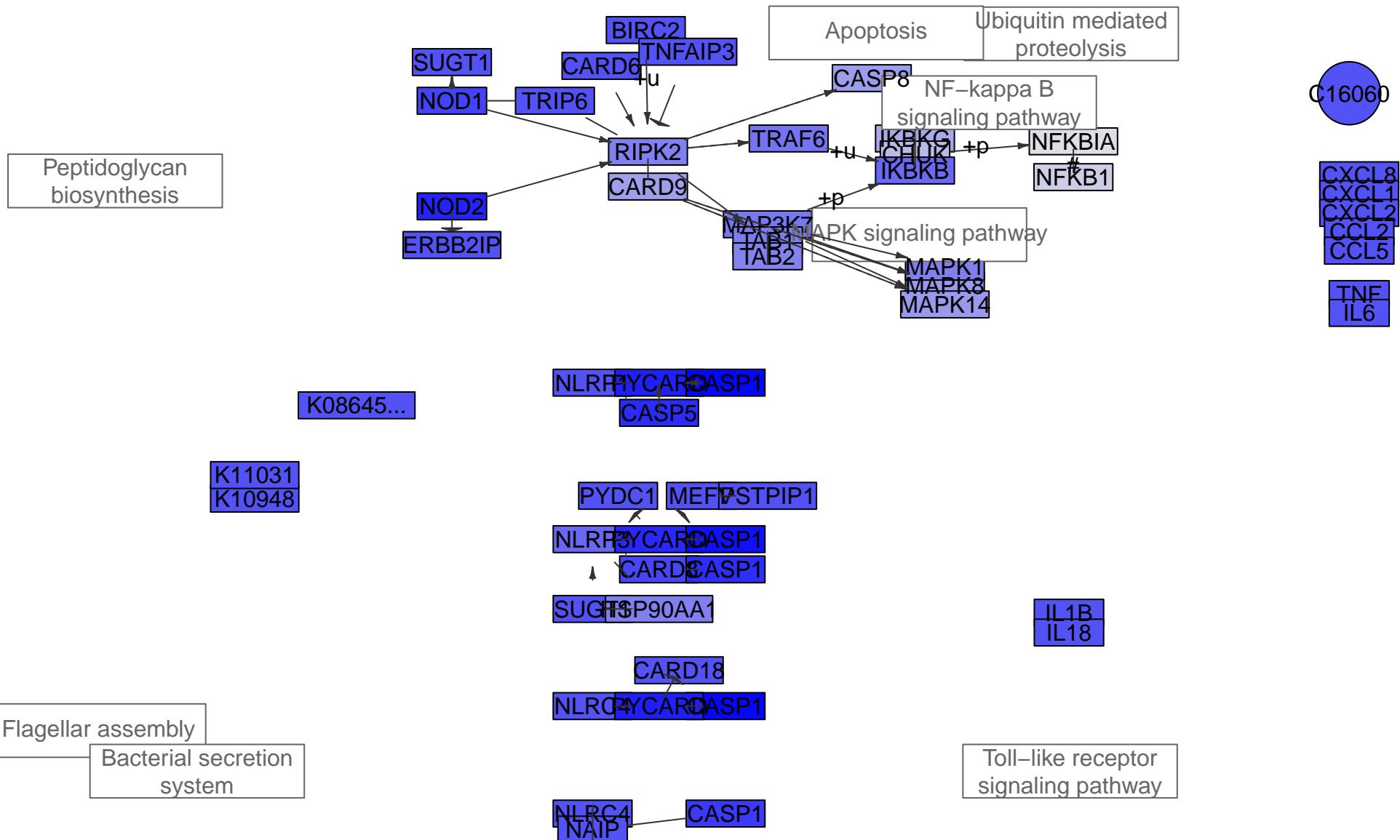
Toll-like receptor
signaling pathway

NLRP4
NAIP
CASP1

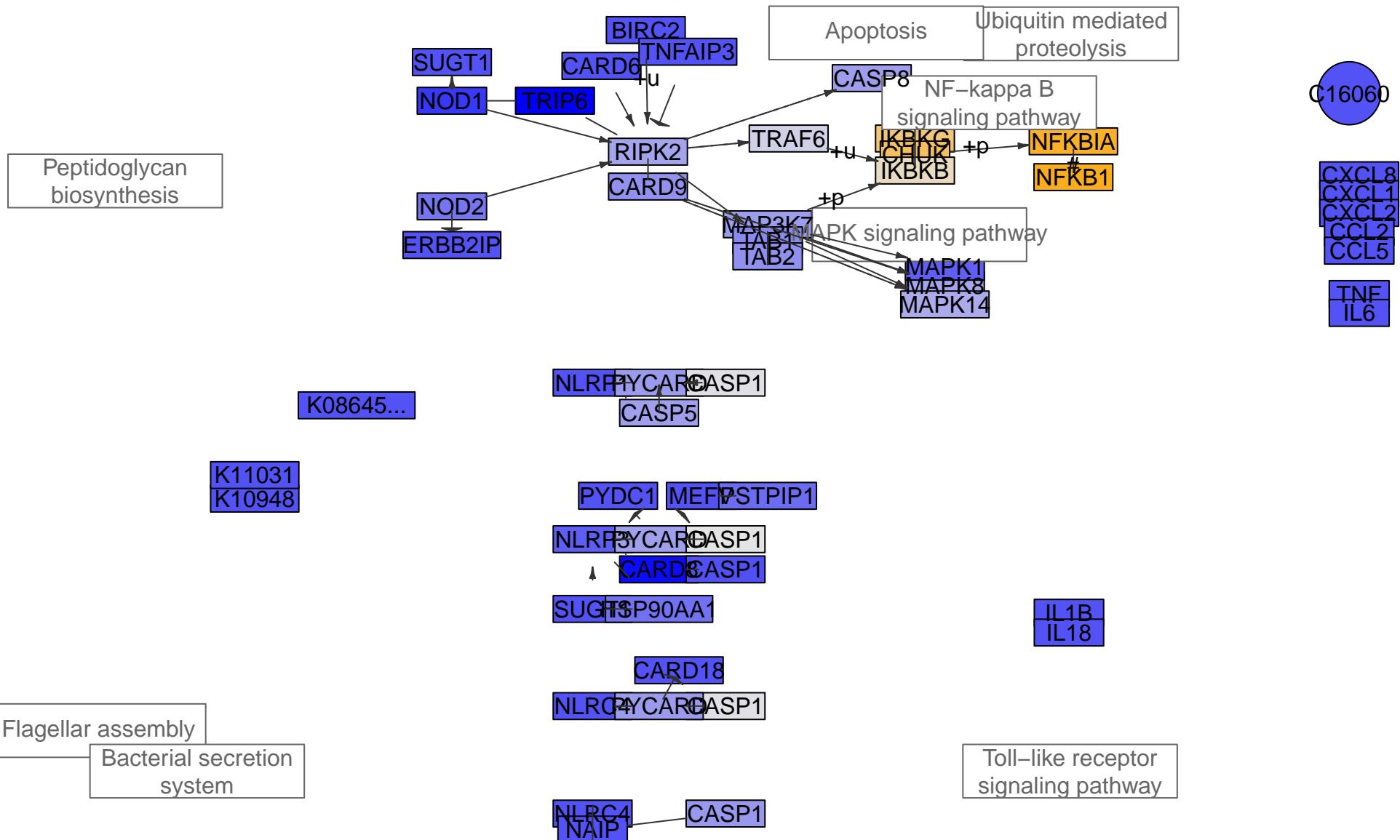
NOD-like receptor
signaling pathway
MPI-106



NOD-like receptor
signaling pathway
MPI-108

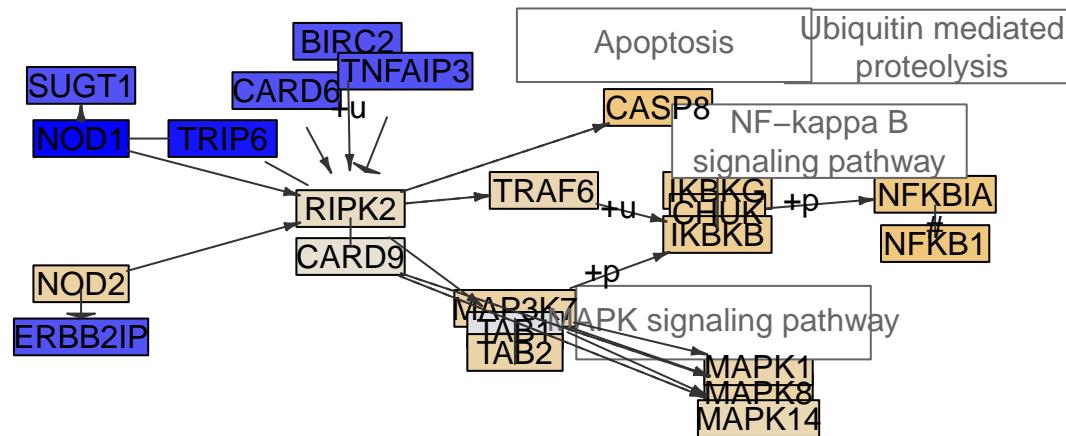


NOD-like receptor
signaling pathway
MPI-109



NOD-like receptor
signaling pathway
MPI-110

Peptidoglycan
biosynthesis



C16060
CXCL8
CXCL1
CXCL2
CCL2
CCL5
TNF
IL6

K08645...

NLRPF3YCARD8CASP1
CASP5

K11031
K10948

PYDC1 MEFV STPIP1
NLRPF3YCARD8CASP1
CARD8CASP1

Flagellar assembly
Bacterial secretion system

IL1B
IL18

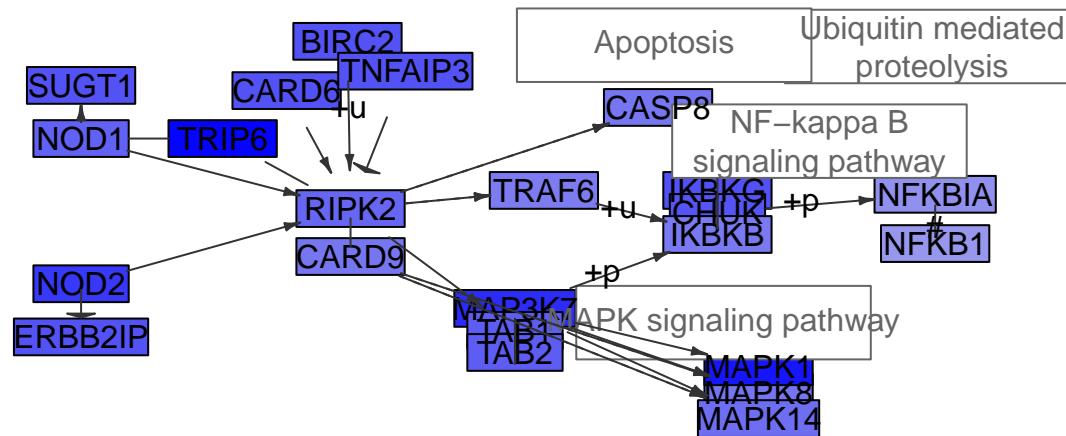
SUGT1 SP90AA1
CARD18
NLRPF4YCARD8CASP1

Toll-like receptor
signaling pathway

NLRPF4YCASP1
NAIP

NOD-like receptor
signaling pathway
MPI-111

Peptidoglycan
biosynthesis



C16060

CXCL8
CXCL1
CXCL2
CCL2
CCL5
TNF
IL6

K08645...

NLRP3YCARD8CASP1
CASP5

K11031
K10948

PYDC1 MEFV STPIP1
NLRP3YCARD8CASP1
CARD8CASP1

Flagellar assembly
Bacterial secretion system

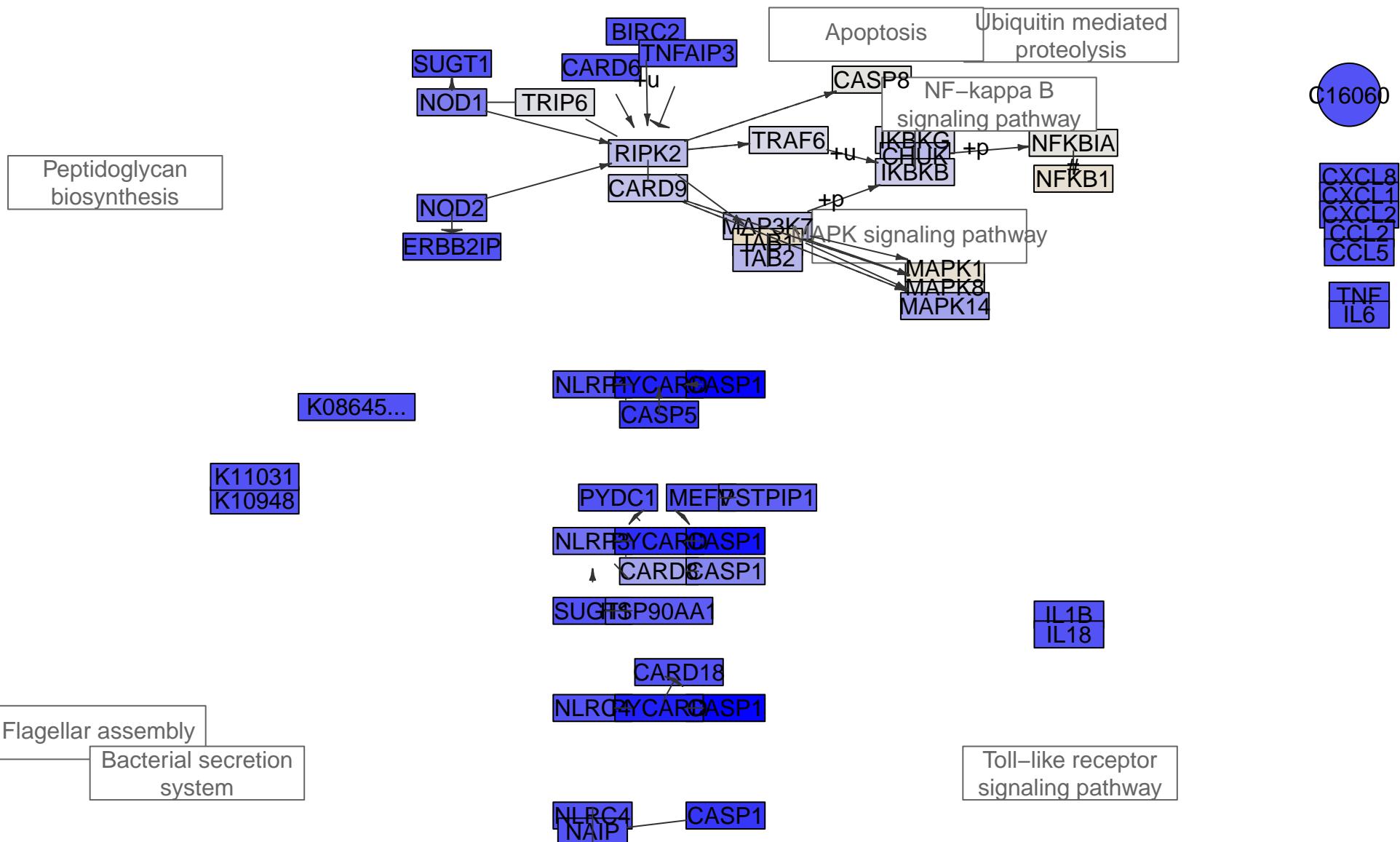
IL1B
IL18

SUGT1 SP90AA1
CARD18
NLRP4YCARD8CASP1

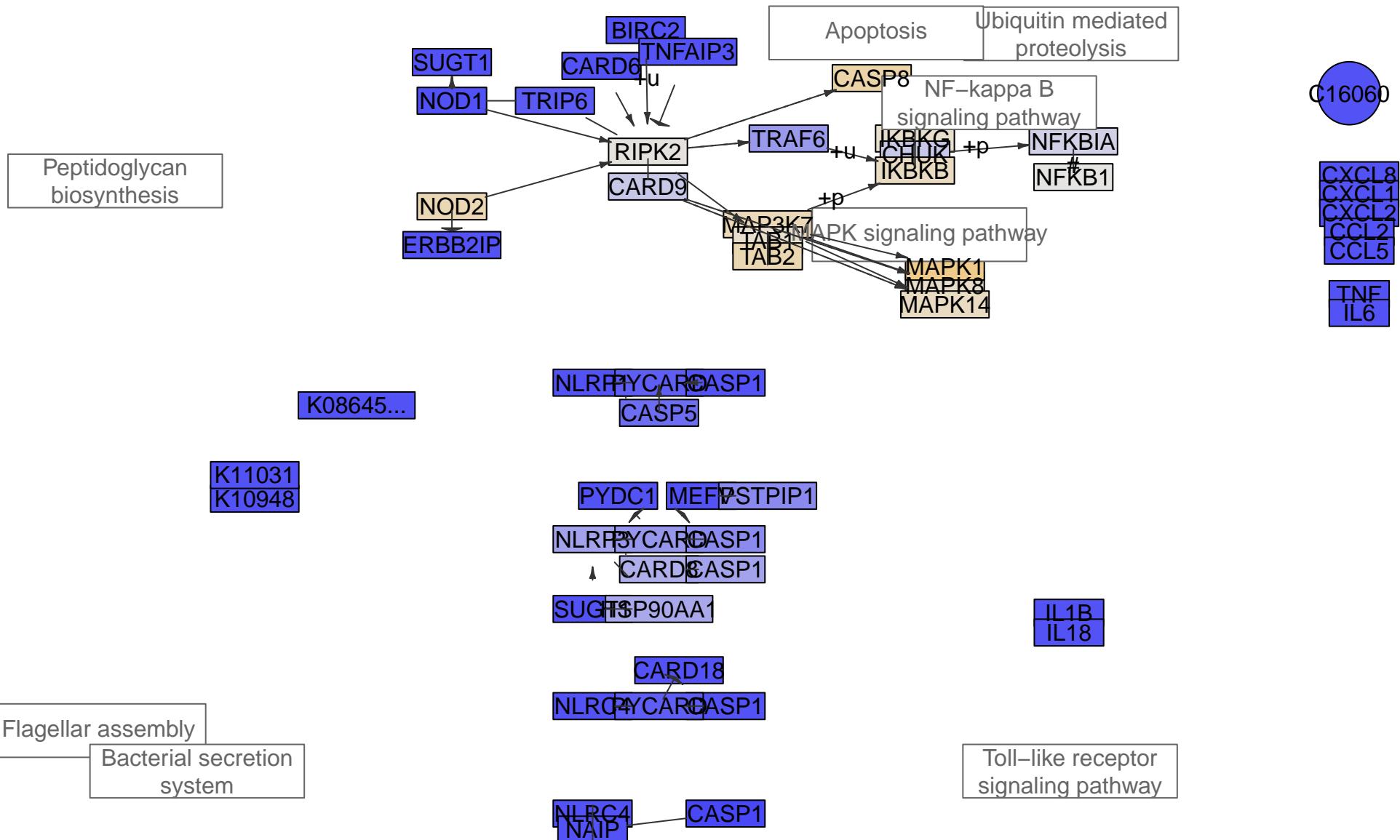
Toll-like receptor
signaling pathway

NLRP4 NAIP
CASP1

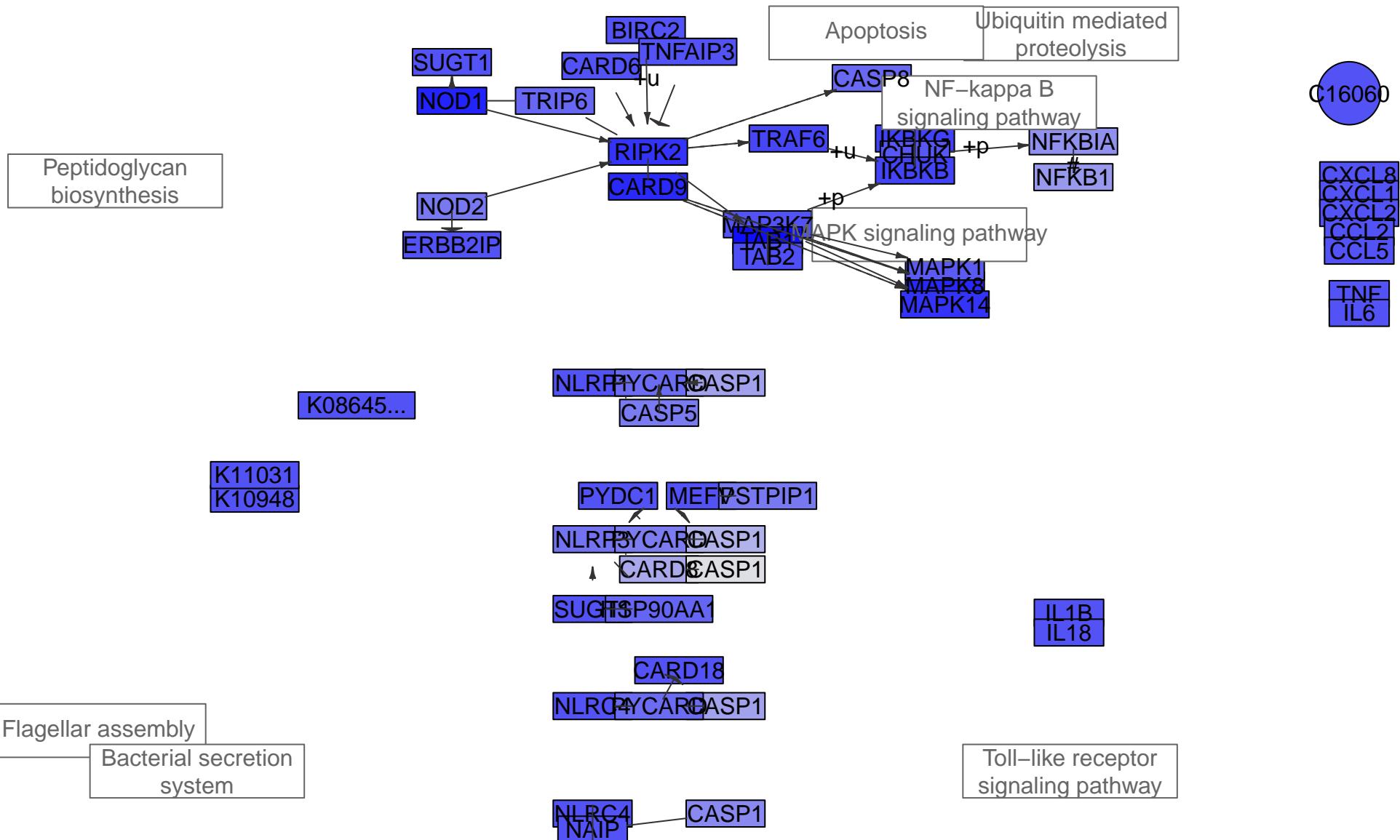
NOD-like receptor
signaling pathway
MPI-113



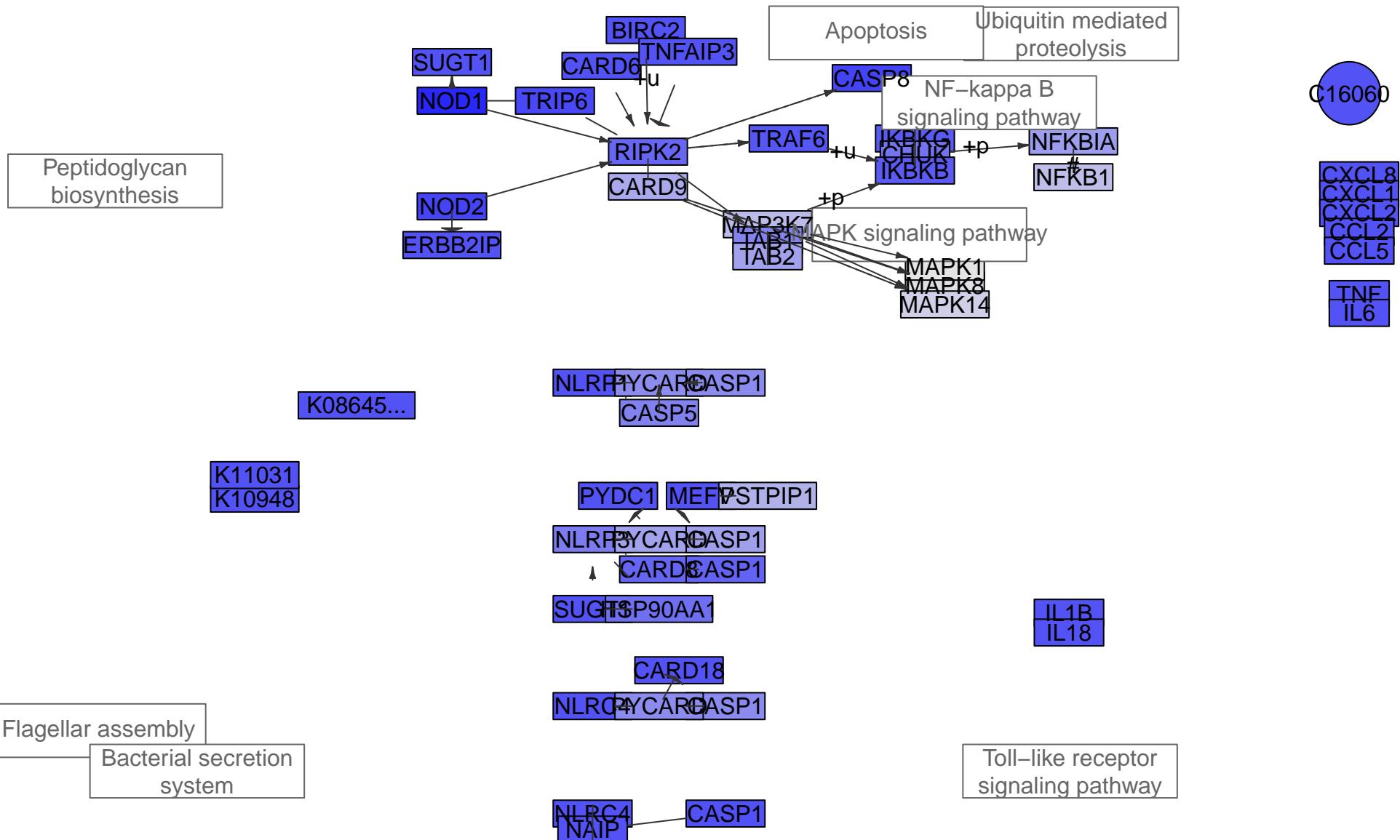
NOD-like receptor
signaling pathway
MPI-115



NOD-like receptor
signaling pathway
MPI-118

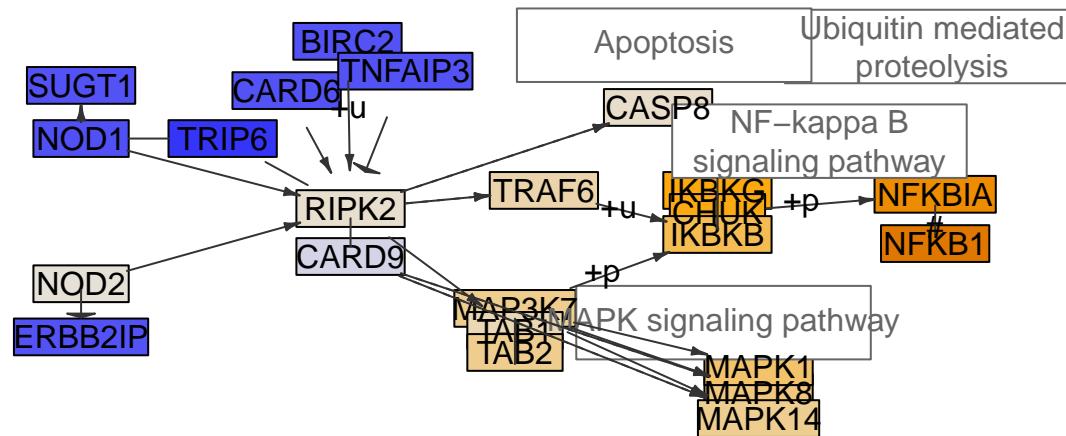


NOD-like receptor
signaling pathway
MPI-119



NOD-like receptor
signaling pathway
MPI-122

Peptidoglycan
biosynthesis



C16060
CXCL8
CXCL1
CXCL2
CCL2
CCL5
TNF
IL6

K08645...

NLRP3YCARD8CASP1
CASP5

K11031
K10948

PYDC1 MEFV STPIP1
NLRP3YCARD8CASP1
CARD8CASP1

Flagellar assembly
Bacterial secretion system

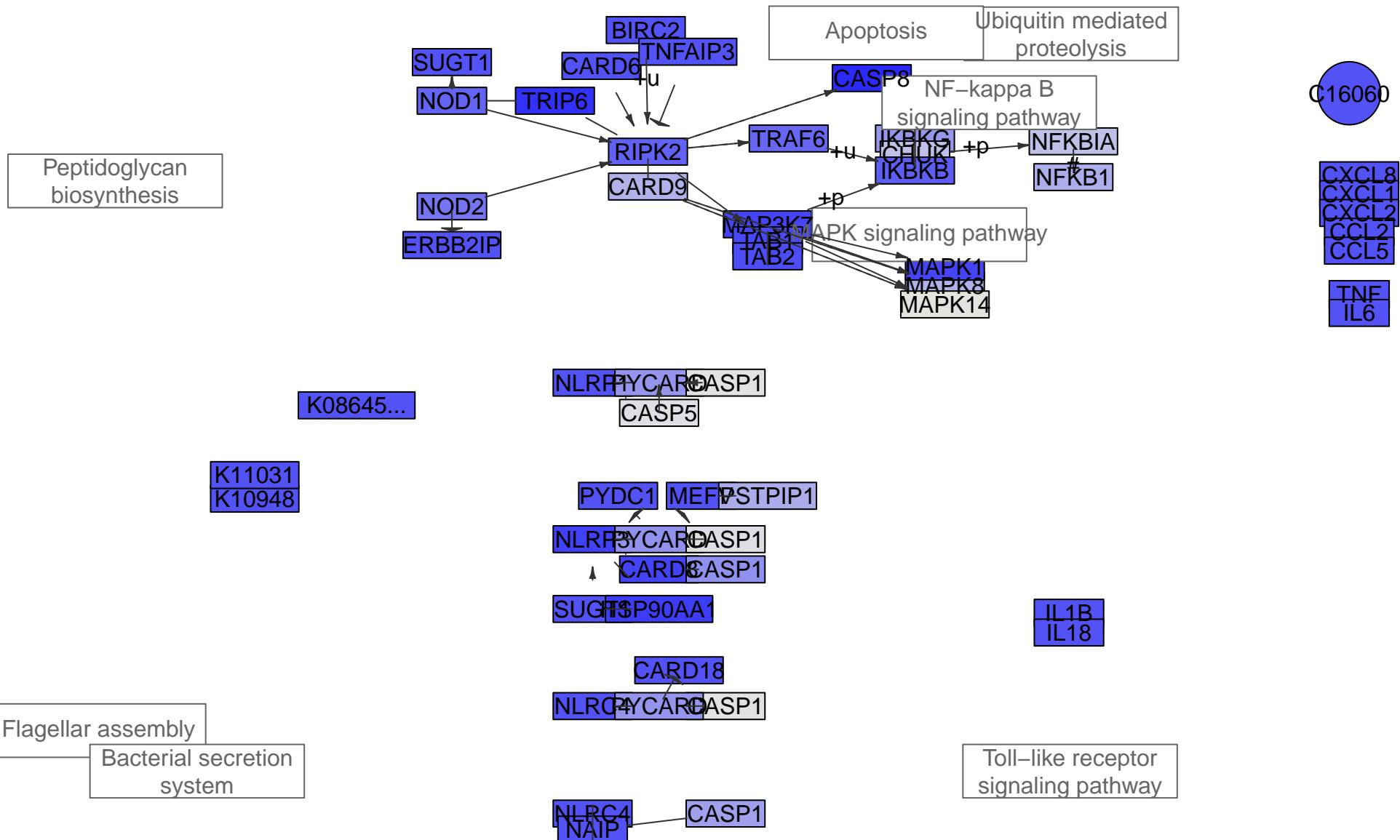
IL1B
IL18

SUGT1\$P90AA1
CARD18
NLRP4YCARD8CASP1

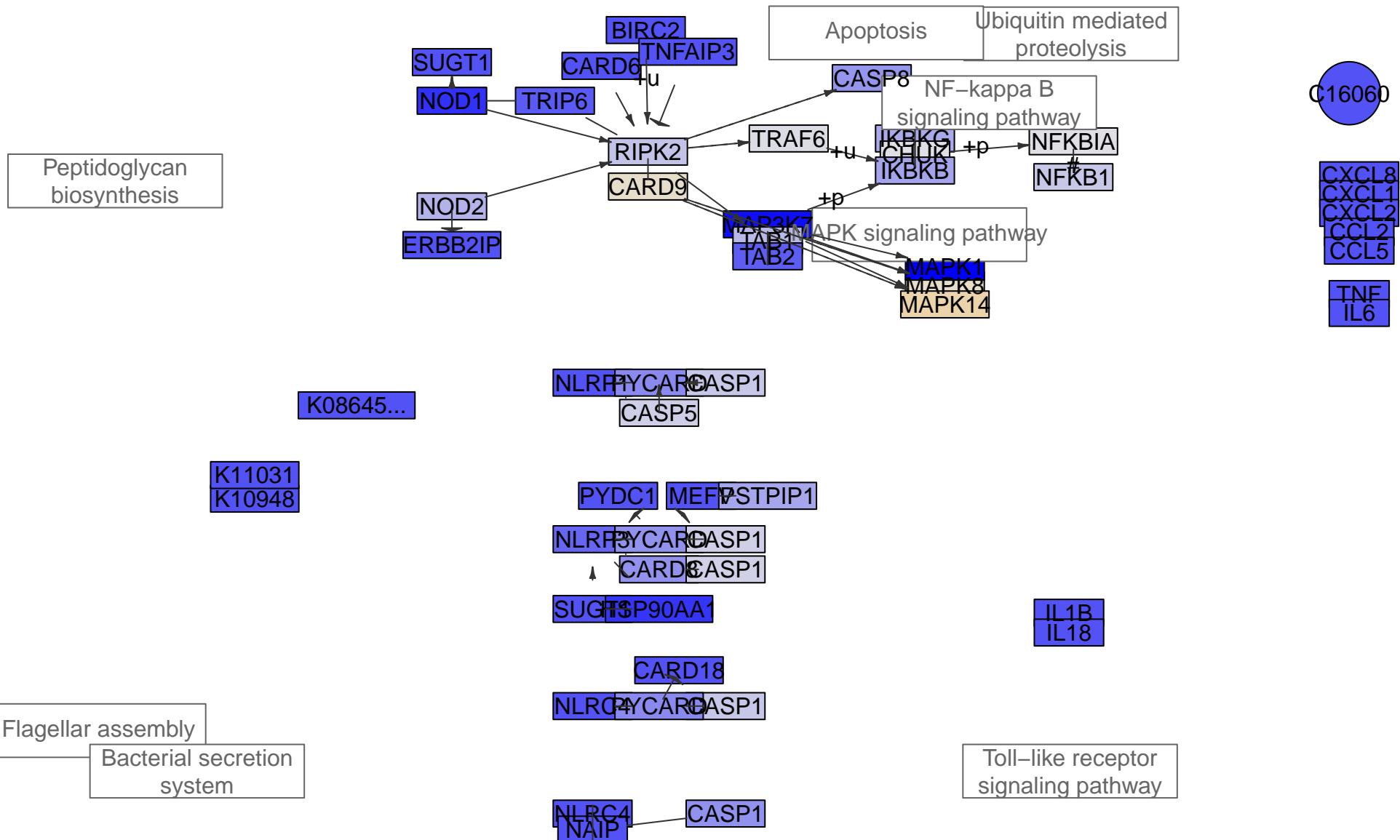
Toll-like receptor
signaling pathway

NLRP4YCASP1
NAIP

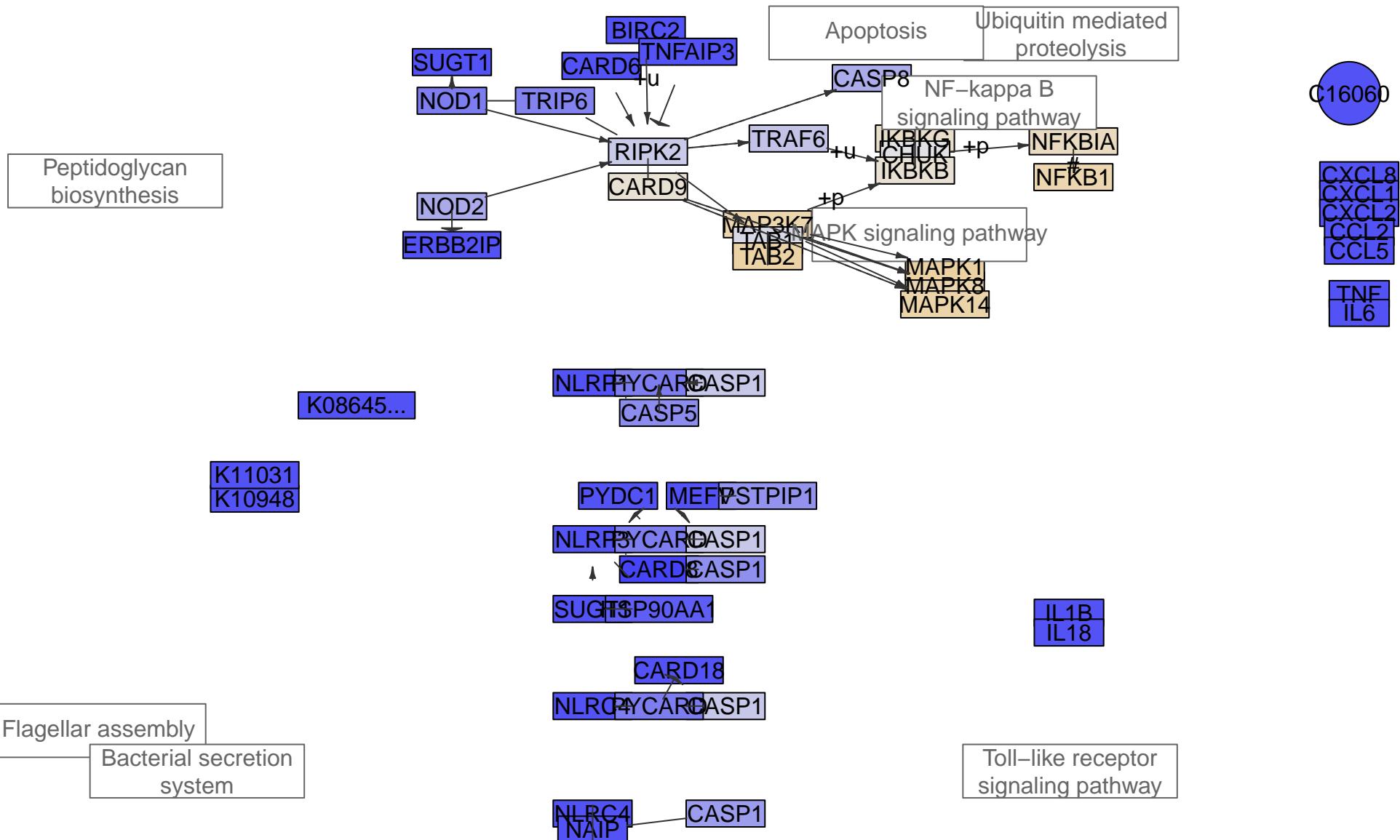
NOD-like receptor
signaling pathway
MPI-127



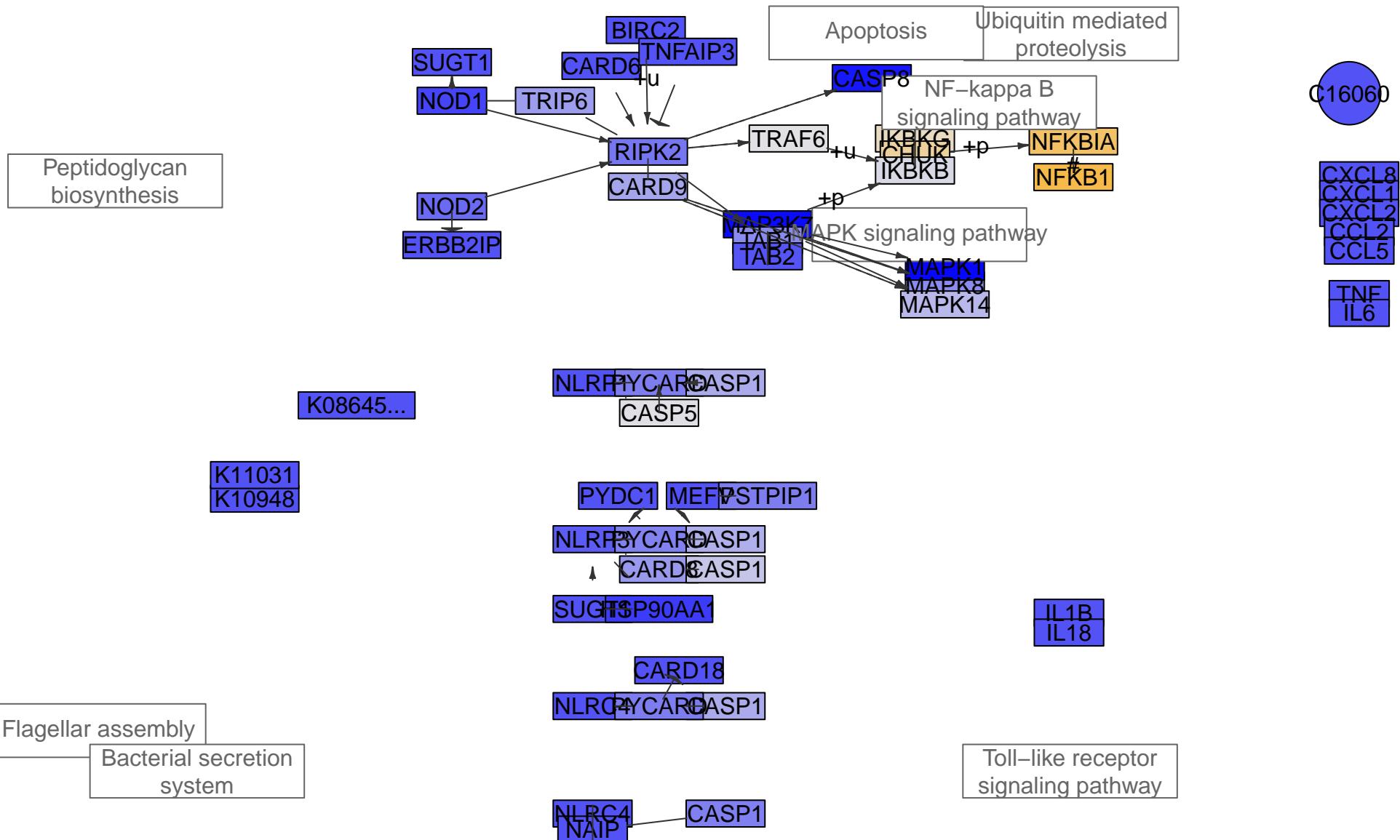
NOD-like receptor
signaling pathway
MPI-128



NOD-like receptor
signaling pathway
MPI-129

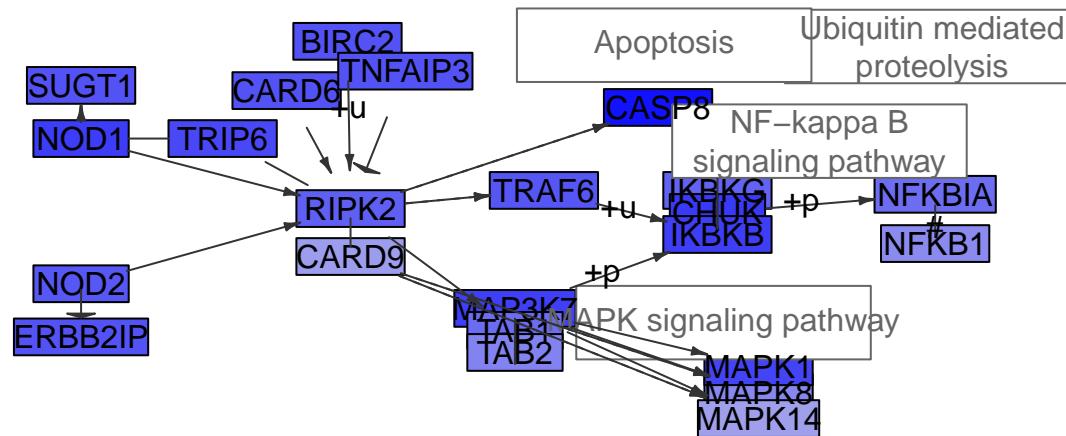


NOD-like receptor
signaling pathway
MPI=130



NOD-like receptor
signaling pathway
MPI-132

Peptidoglycan
biosynthesis



C16060
CXCL8
CXCL1
CXCL2
CCL2
CCL5
TNF
IL6

K08645...

NLRPF3YCARD8CASP1
CASP5

K11031
K10948

PYDC1 MEFV STPIP1
NLRPF3YCARD8CASP1
CARD8CASP1

Flagellar assembly
Bacterial secretion system

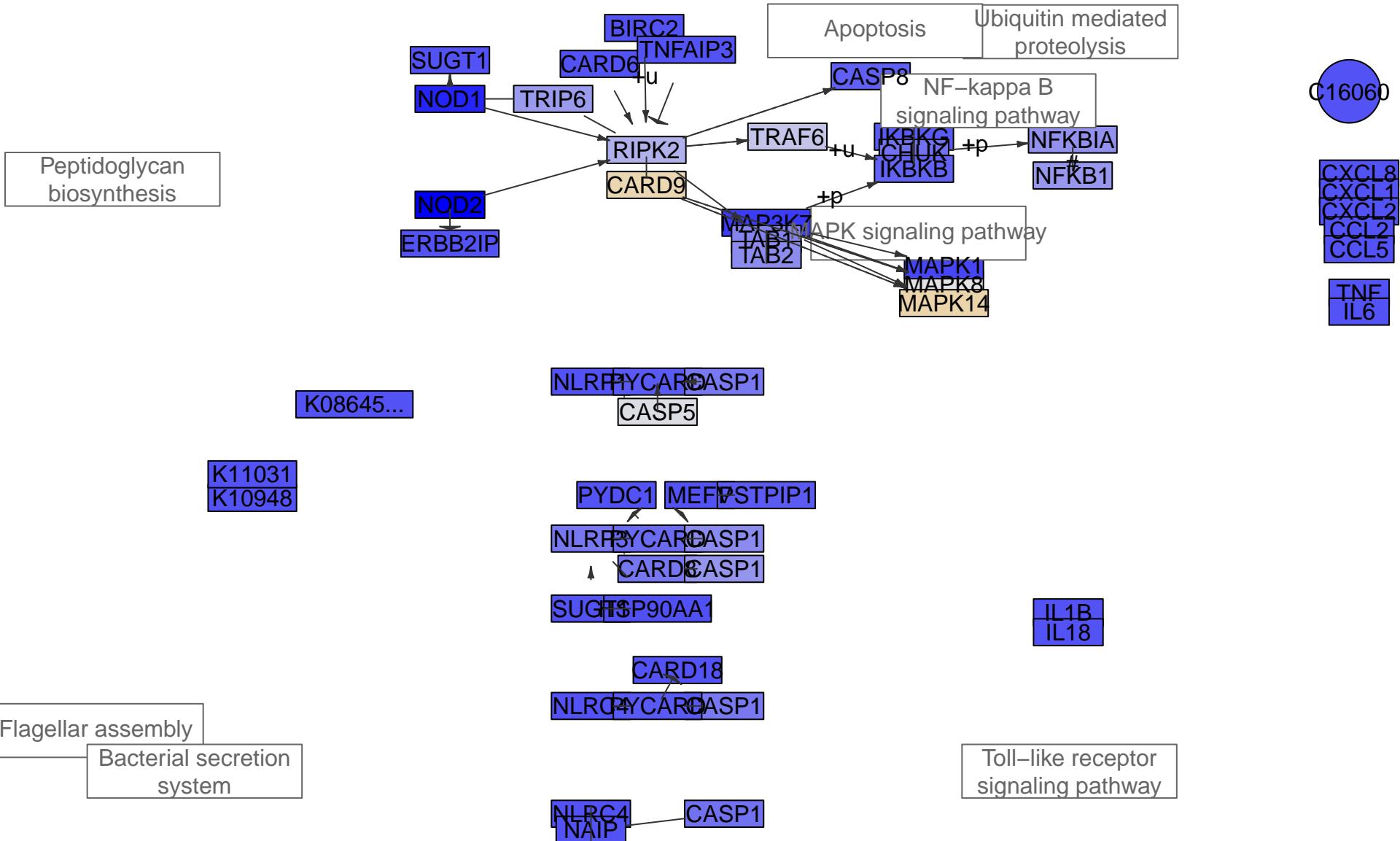
IL1B
IL18

SUGT1\$P90AA1
CARD18
NLRPF4YCARD8CASP1

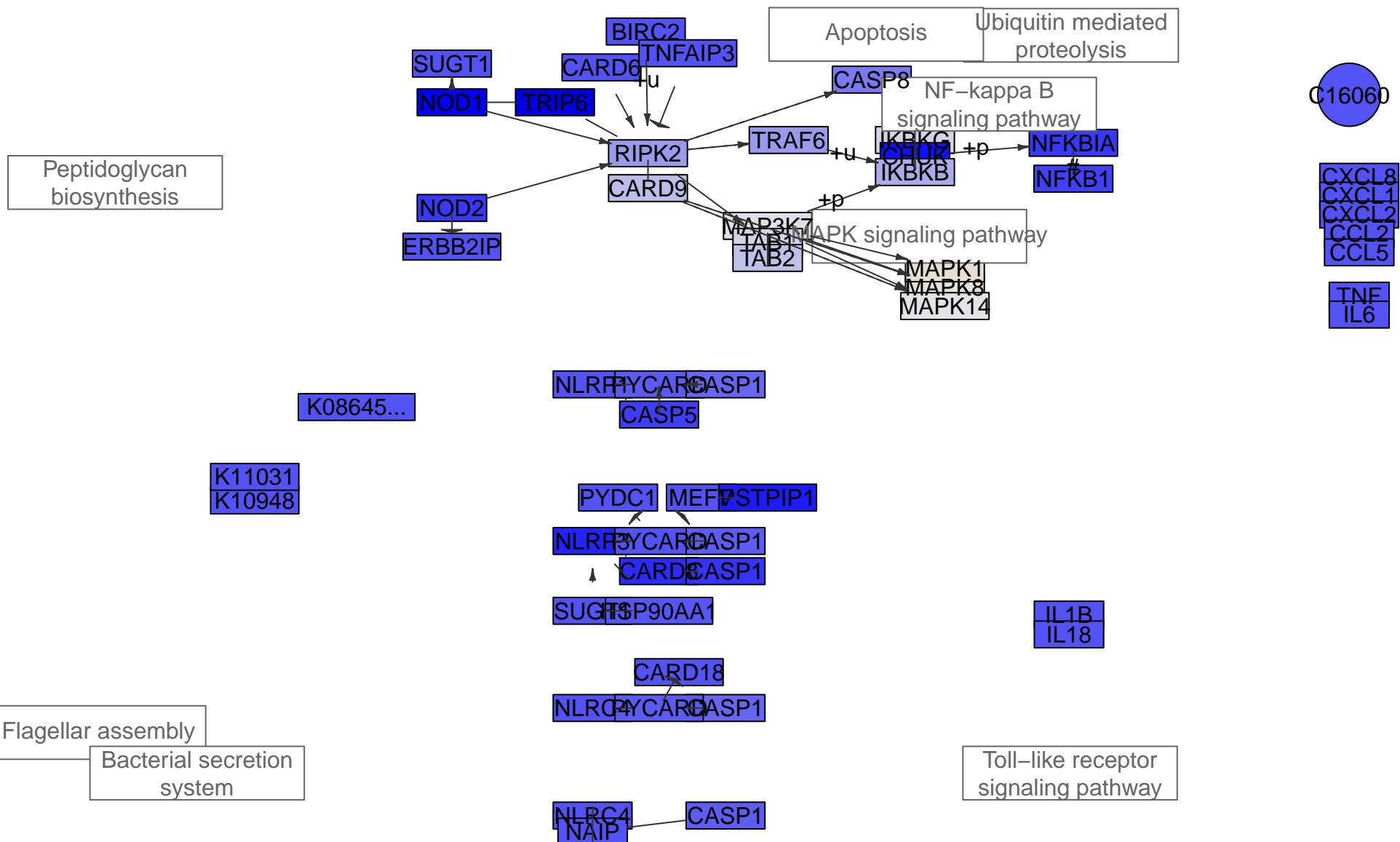
Toll-like receptor
signaling pathway

NLRPF4YCASP1
NAIP

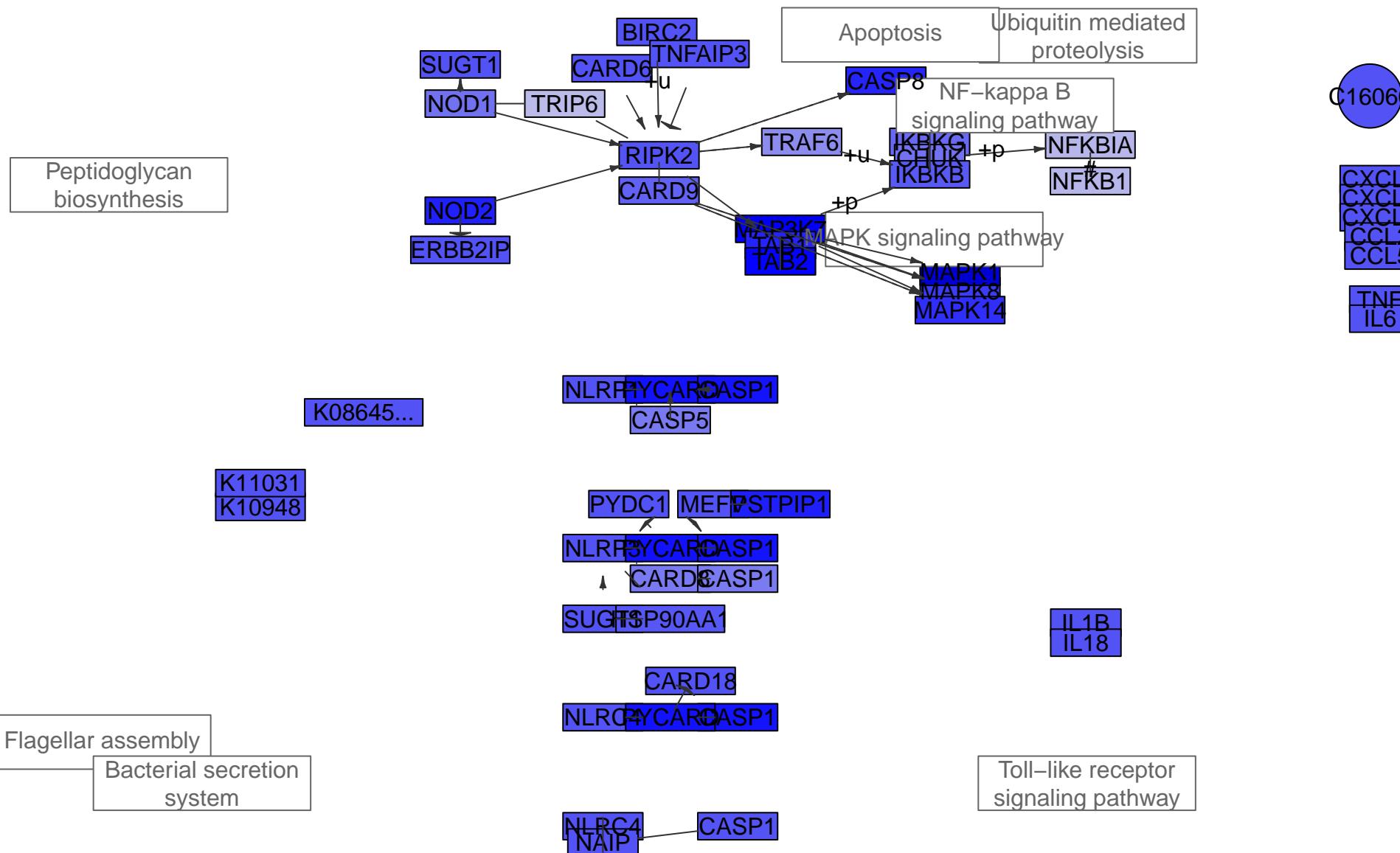
NOD-like receptor signaling pathway MPI-133



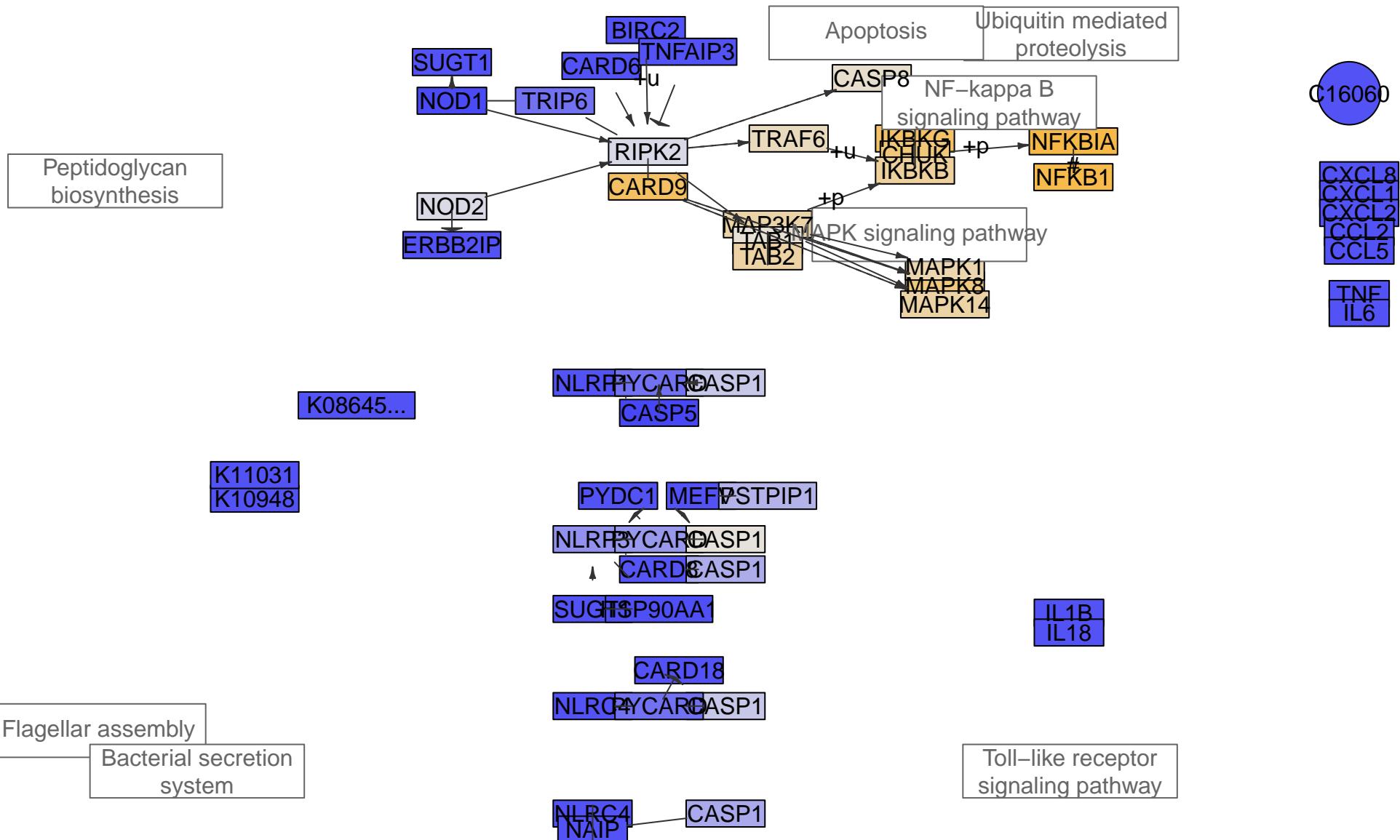
NOD-like receptor
signaling pathway
MPI-134



NOD-like receptor
signaling pathway
MPI-135

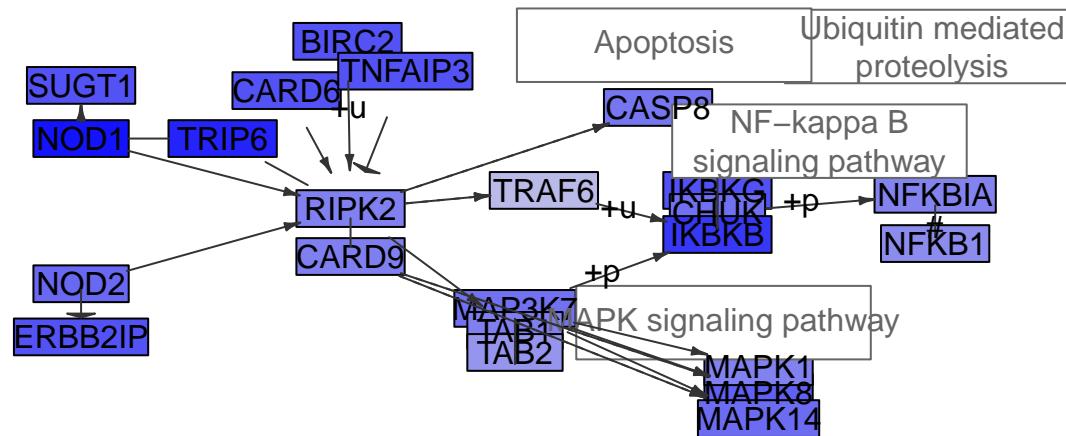


NOD-like receptor
signaling pathway
MPI-136



NOD-like receptor
signaling pathway
MPI-141

Peptidoglycan
biosynthesis



C16060
CXCL8
CXCL1
CXCL2
CCL2
CCL5
TNF
IL6

K08645...

NLRP3YCARD8CASP1
CASP5

K11031
K10948

PYDC1 MEFV STPIP1
NLRP3YCARD8CASP1
CARD8CASP1

Flagellar assembly
Bacterial secretion system

SUGT1 SP90AA1

IL1B
IL18

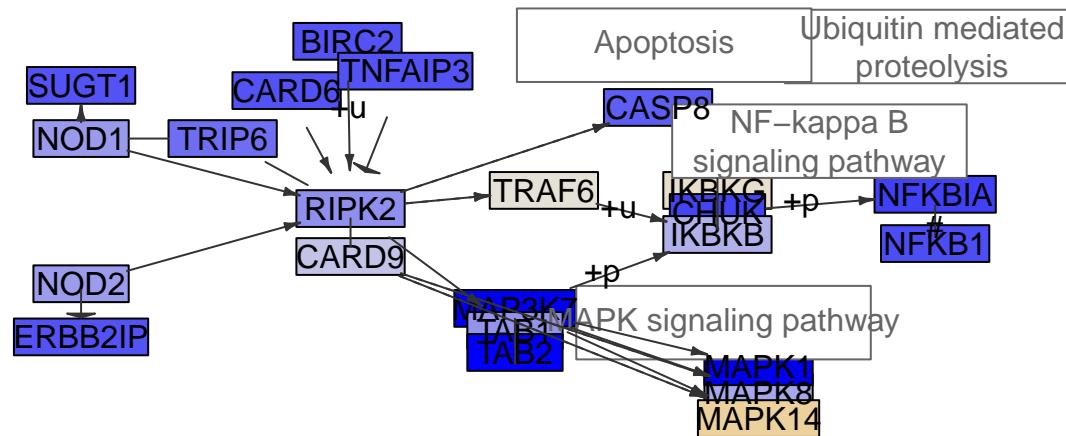
CARD18
NLRP4YCARD8CASP1

Toll-like receptor
signaling pathway

NLRP4 NAIP
CASP1

NOD-like receptor
signaling pathway
MPI-142

Peptidoglycan
biosynthesis



C16060
CXCL8
CXCL1
CXCL2
CCL2
CCL5
TNF
IL6

K08645...

NLRP3YCARD8CASP1
CASP5

K11031
K10948

PYDC1 MEF17 STPIP1
NLRP3YCARD8CASP1
CARD8CASP1

Flagellar assembly
Bacterial secretion system

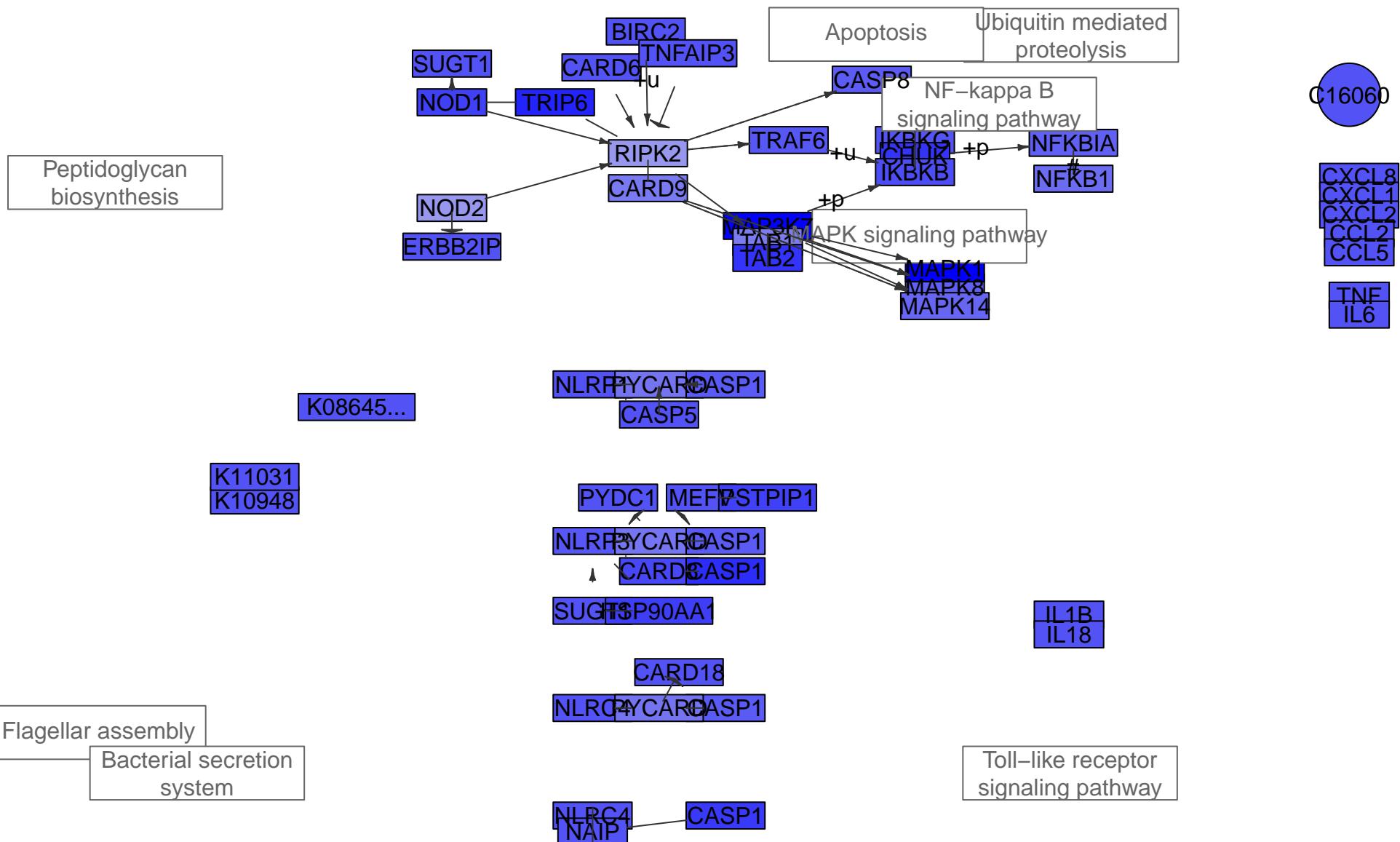
IL1B
IL18

CARD18
NLRP4YCARD8CASP1

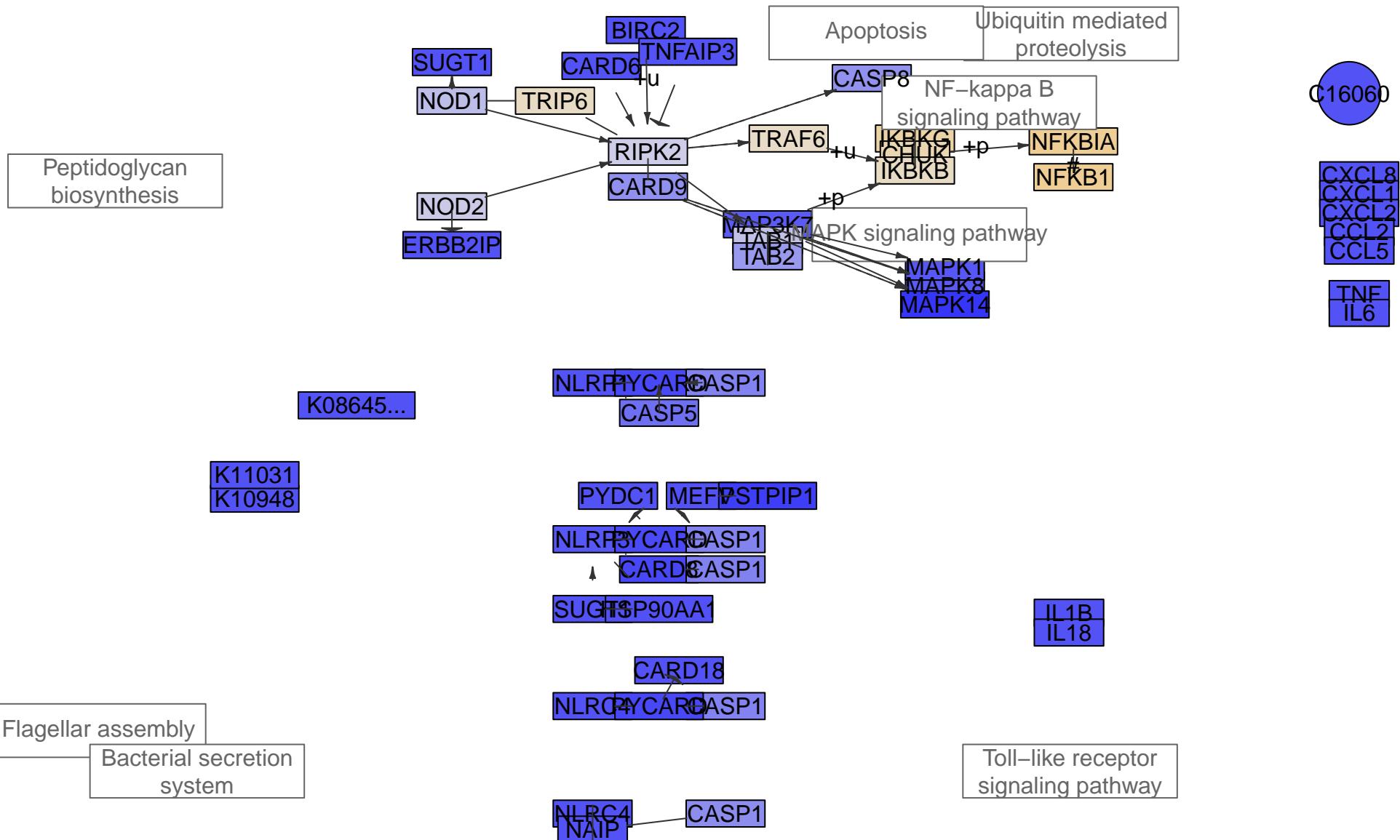
Toll-like receptor
signaling pathway

NLRP4
TNFAIP3
CASP1

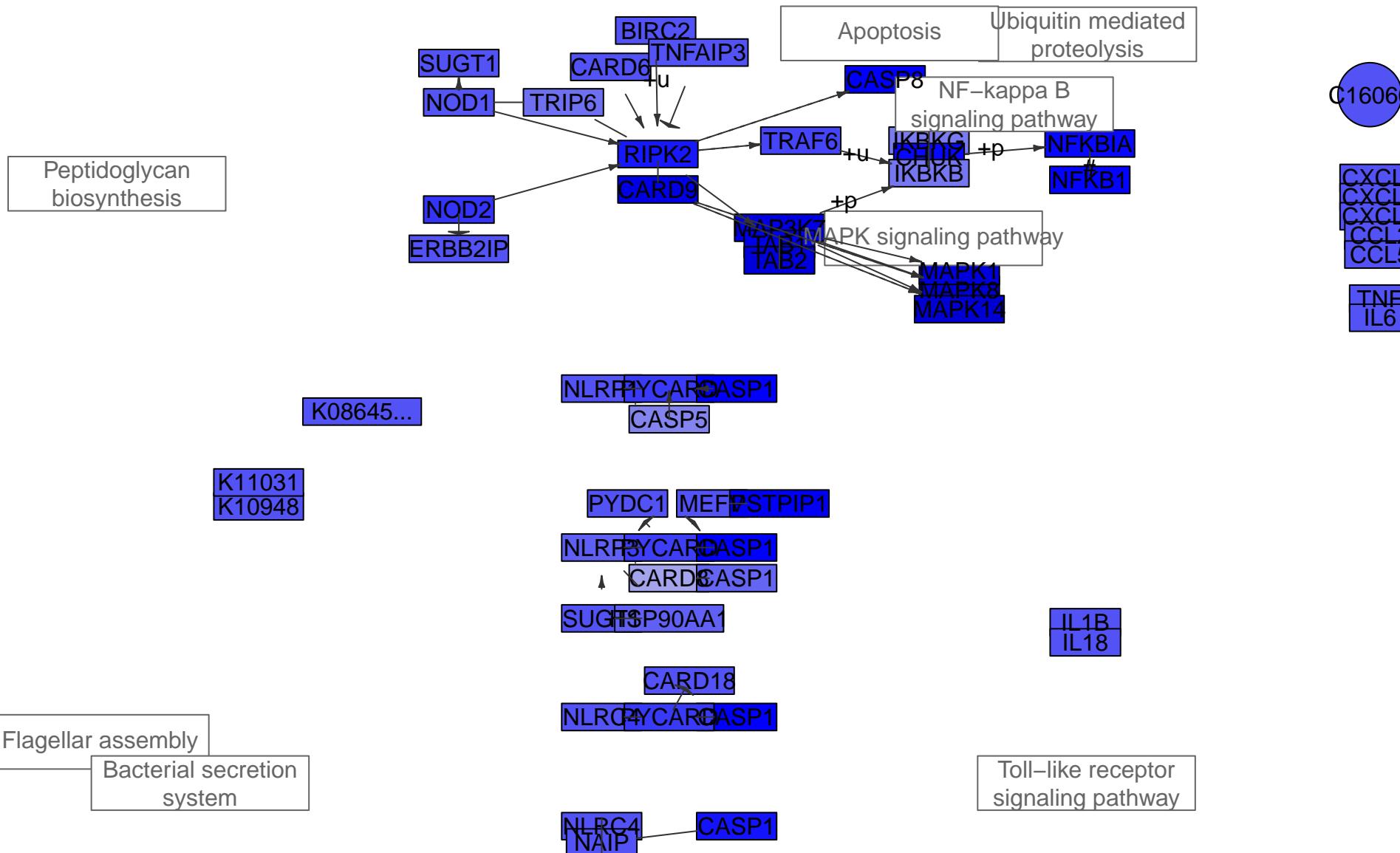
NOD-like receptor
signaling pathway
MPI-145



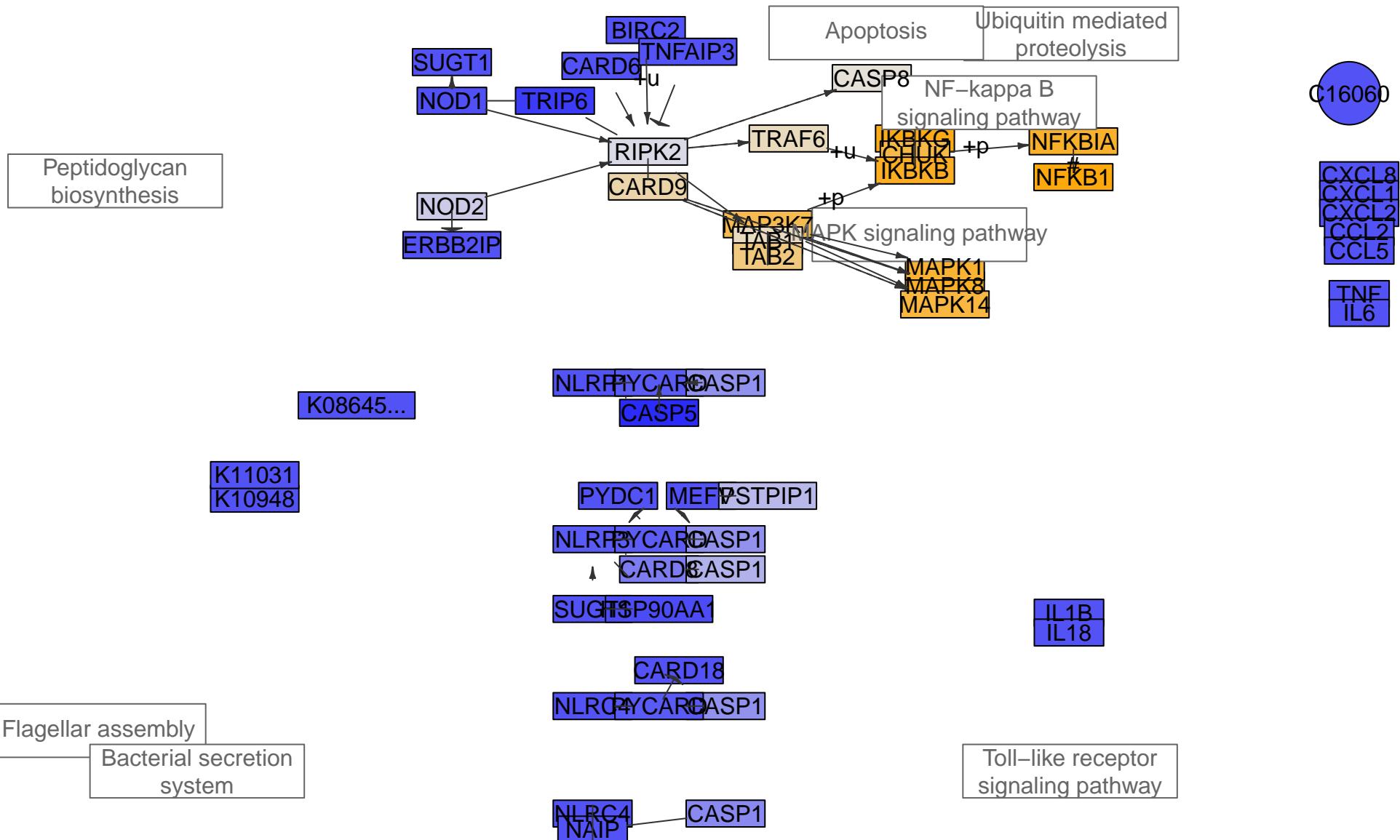
NOD-like receptor
signaling pathway
MPI-146



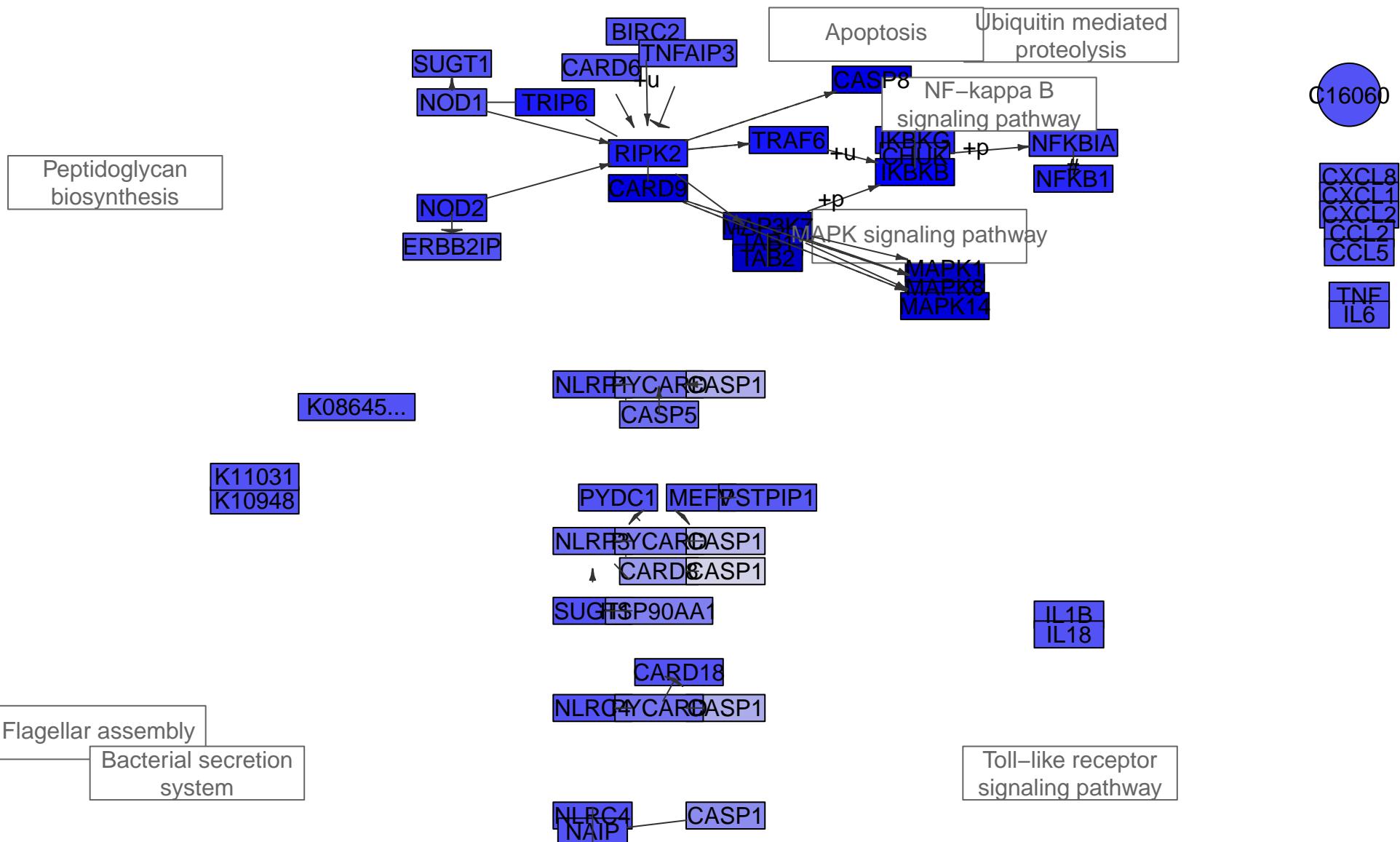
NOD-like receptor
signaling pathway
MPI-149



NOD-like receptor
signaling pathway
MPI=150

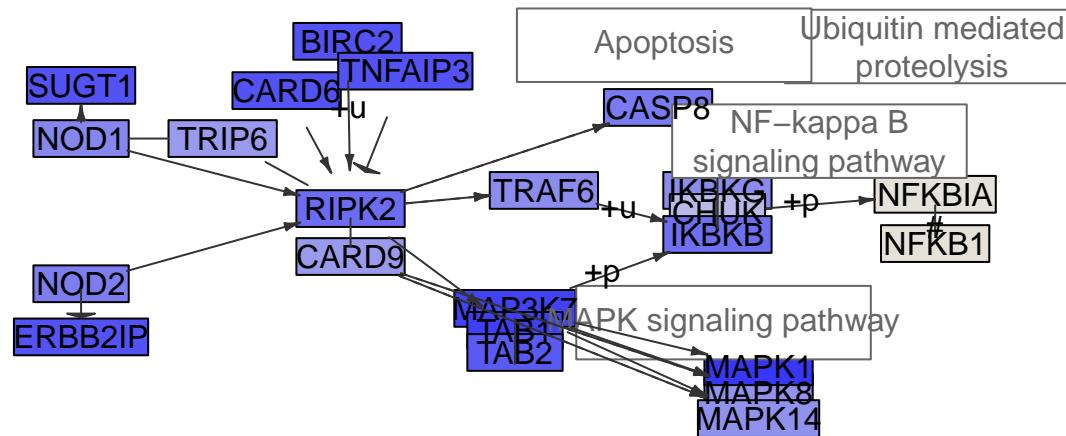


NOD-like receptor
signaling pathway
MPI-151



NOD-like receptor
signaling pathway
MPI-152

Peptidoglycan
biosynthesis



C16060
CXCL8
CXCL1
CXCL2
CCL2
CCL5
TNF
IL6

K08645...

NLRP3PYCARD8CASP1
CASP5

K11031
K10948

PYDC1 MEFV PSTPIP1
NLRP3PYCARD8CASP1
CARD8CASP1

Flagellar assembly
Bacterial secretion system

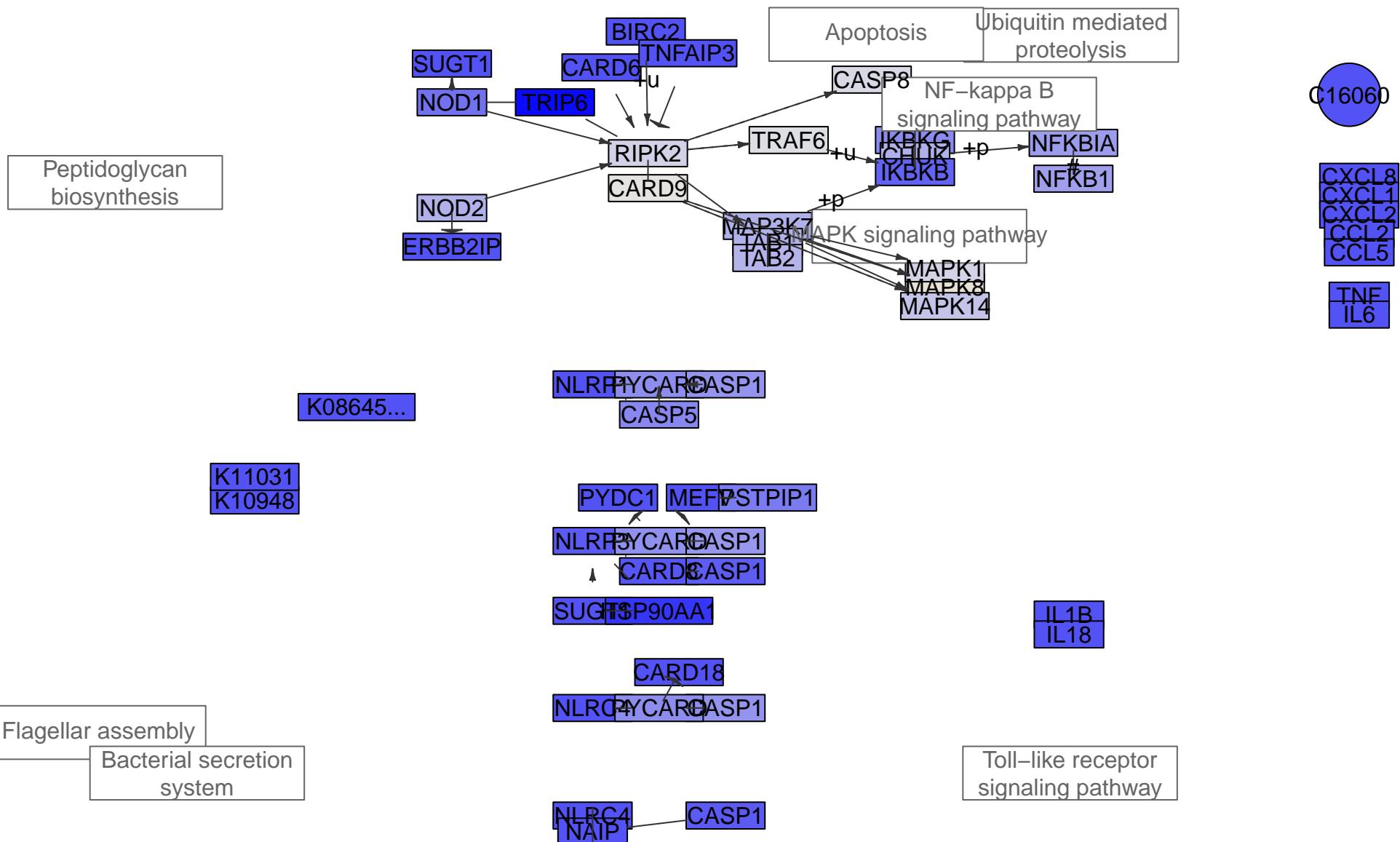
IL1B
IL18

SUGT1 SP90AA1
CARD18
NLRP4PYCARD8CASP1

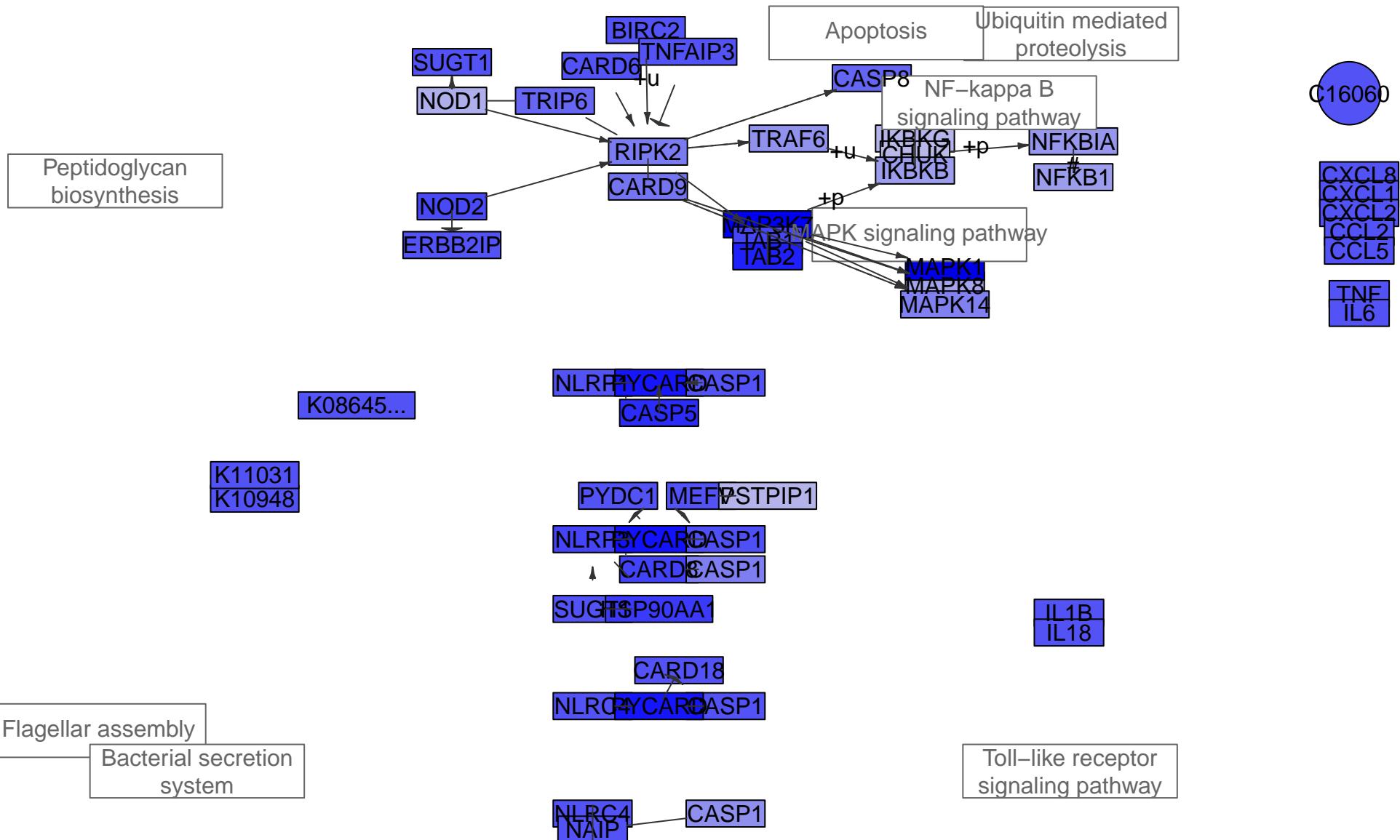
Toll-like receptor
signaling pathway

NLRP4 NAIP
CASP1

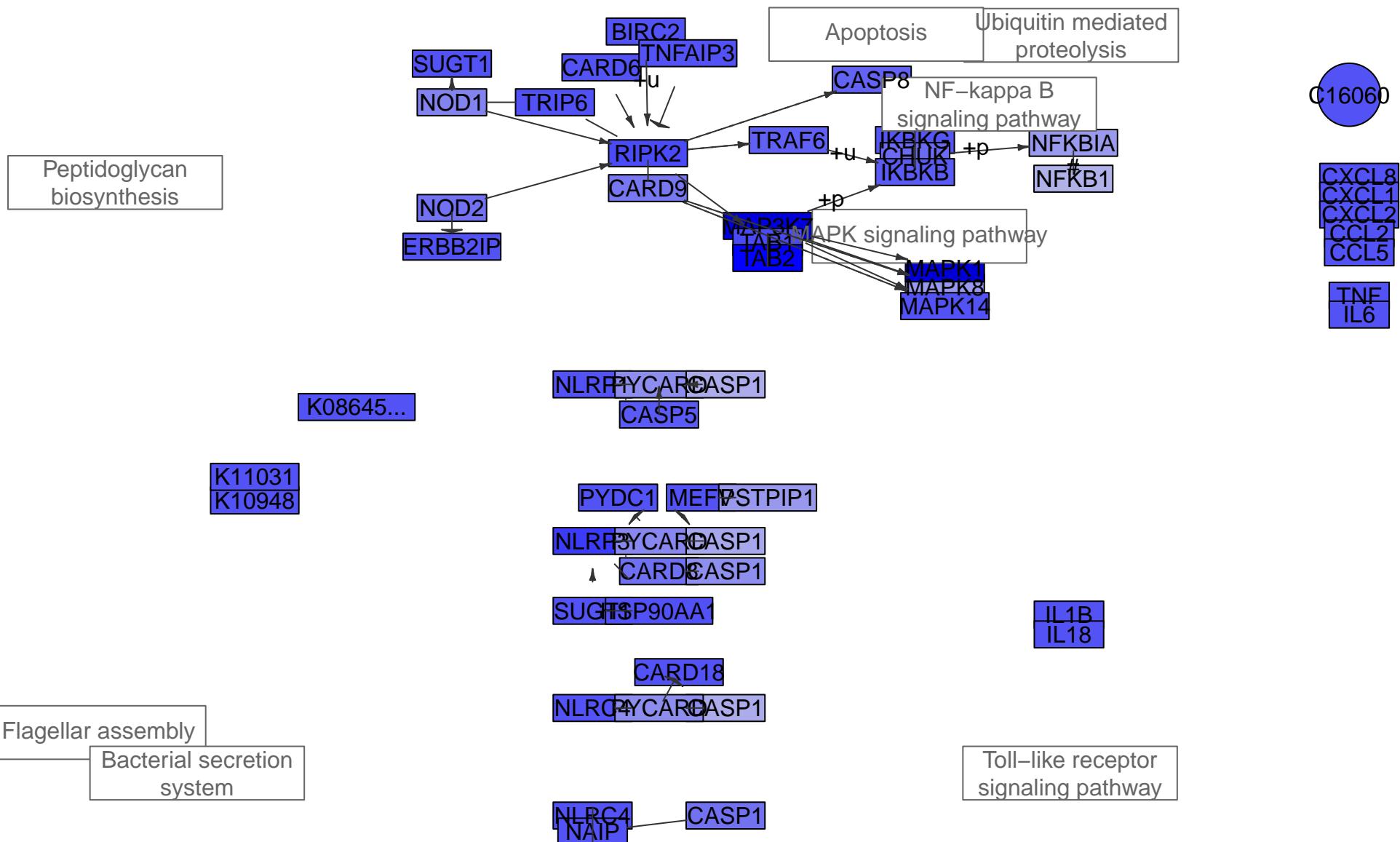
NOD-like receptor
signaling pathway
MPI-153



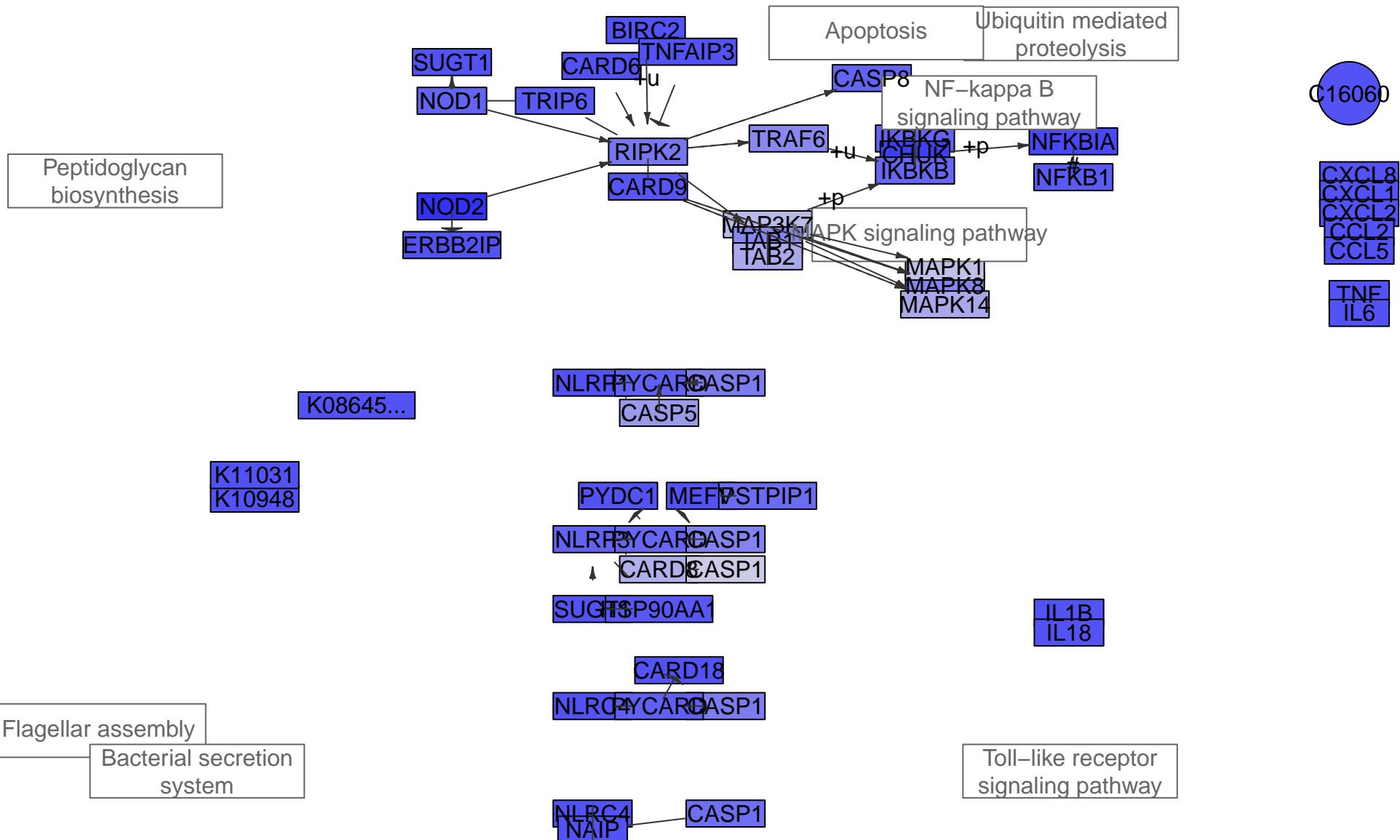
NOD-like receptor
signaling pathway
MPI-154



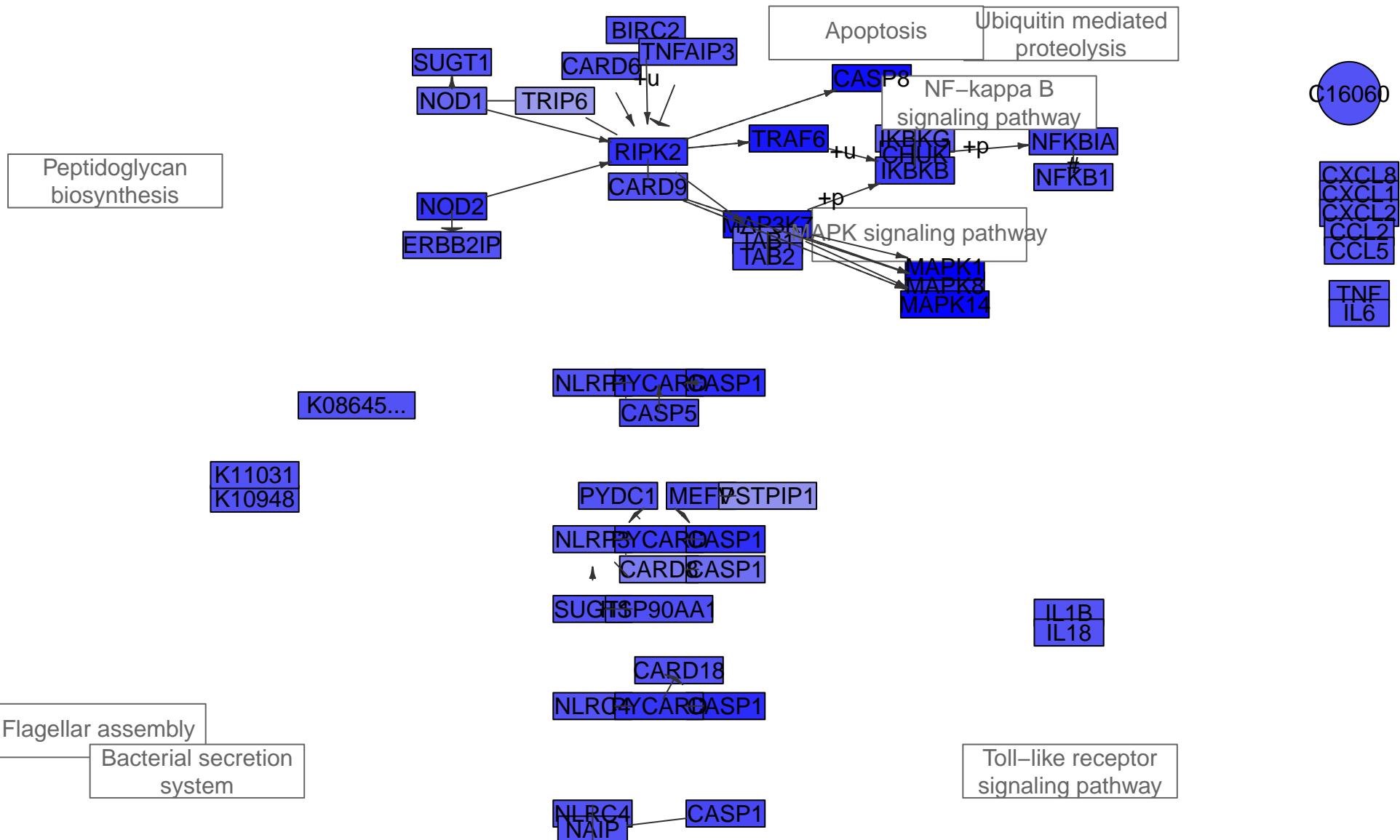
NOD-like receptor
signaling pathway
MPI=155



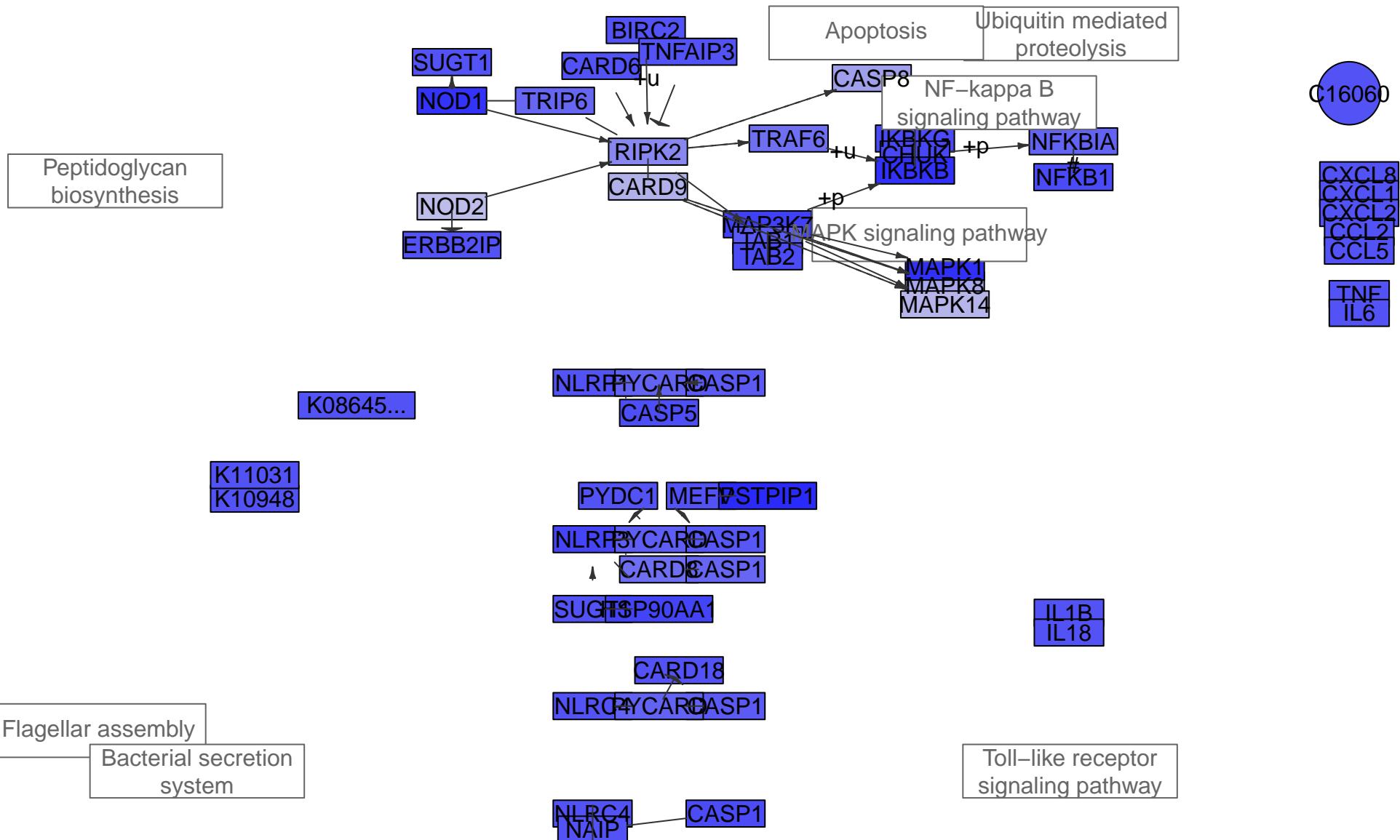
NOD-like receptor
signaling pathway
MPI-159



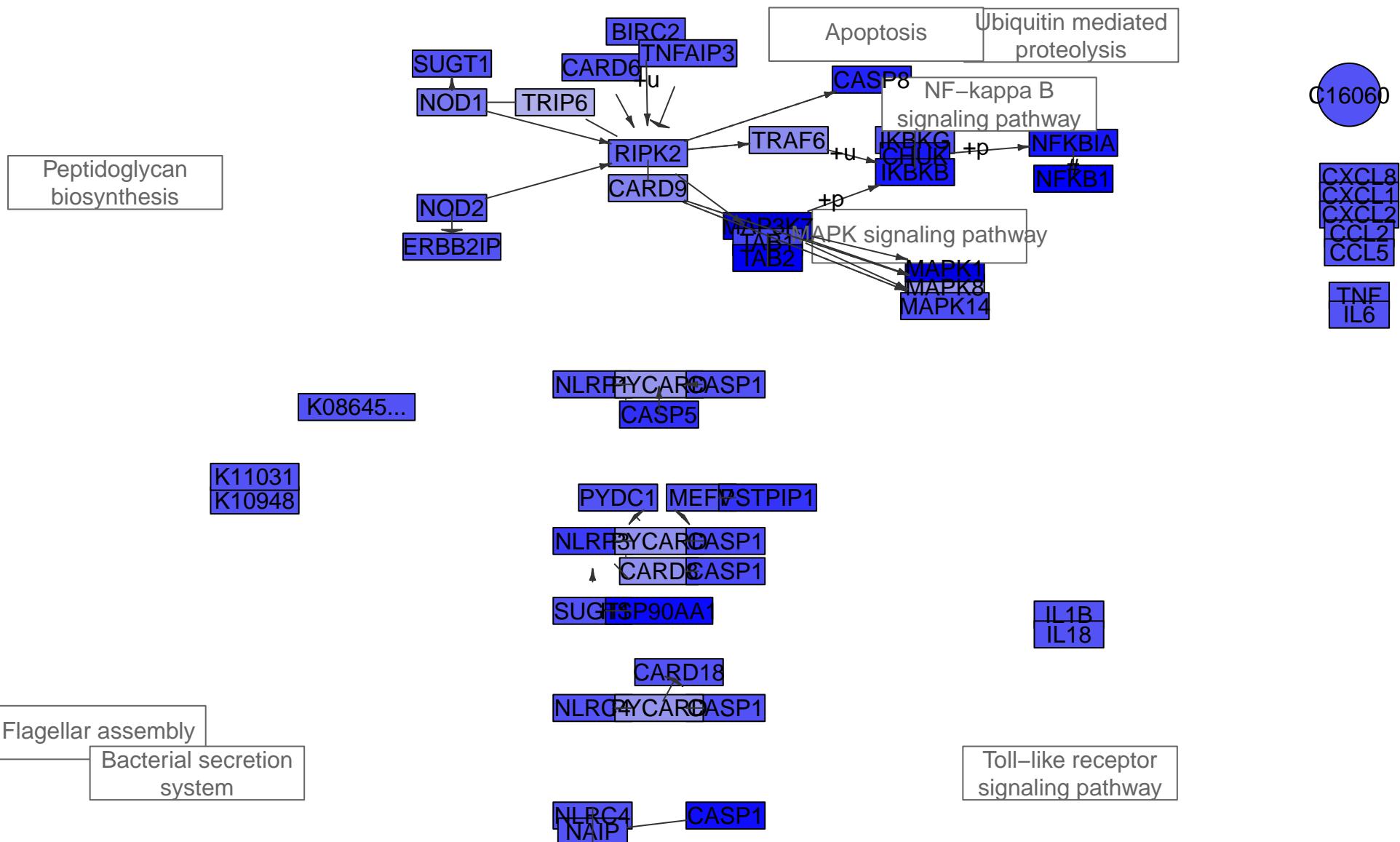
NOD-like receptor
signaling pathway
MPI-163



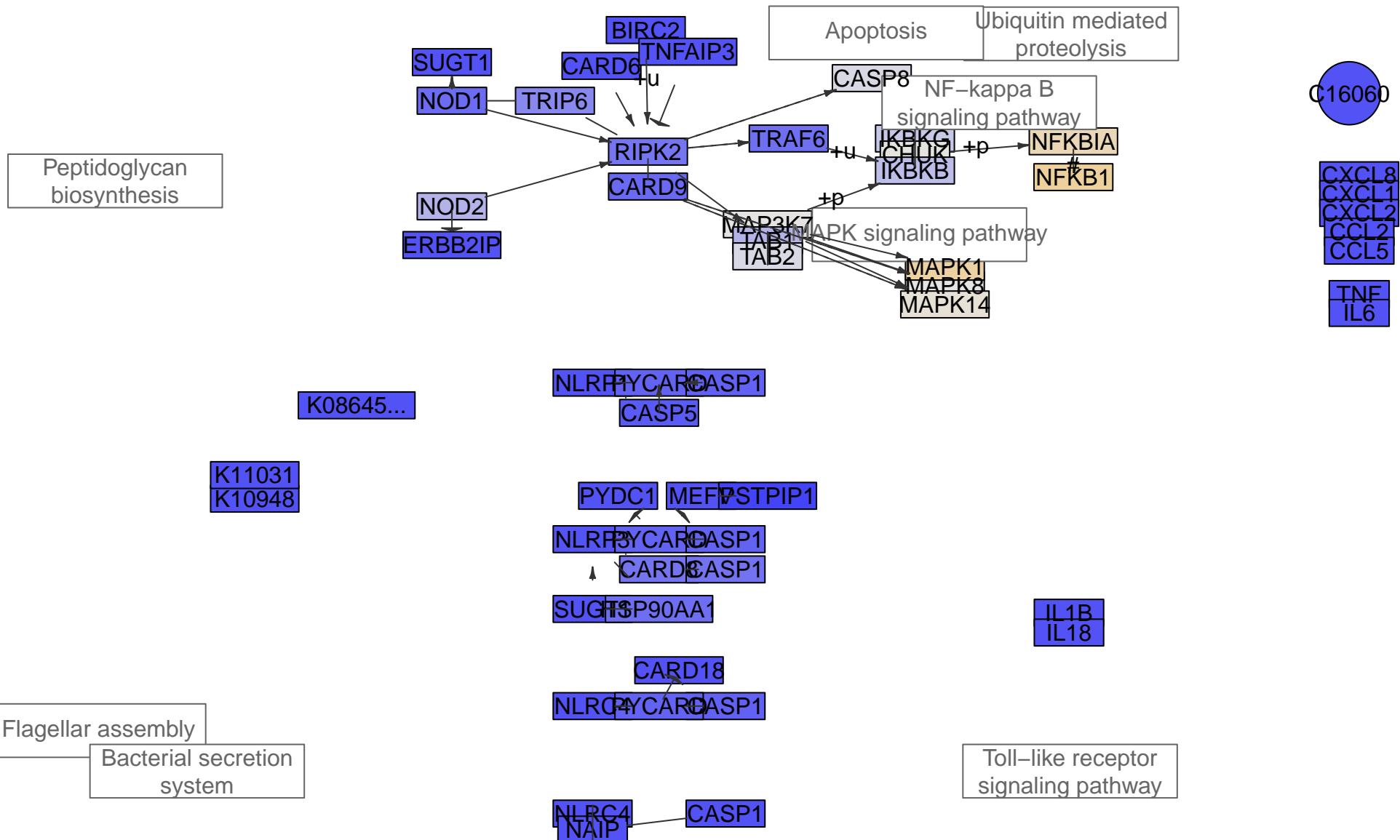
NOD-like receptor
signaling pathway
MPI-164



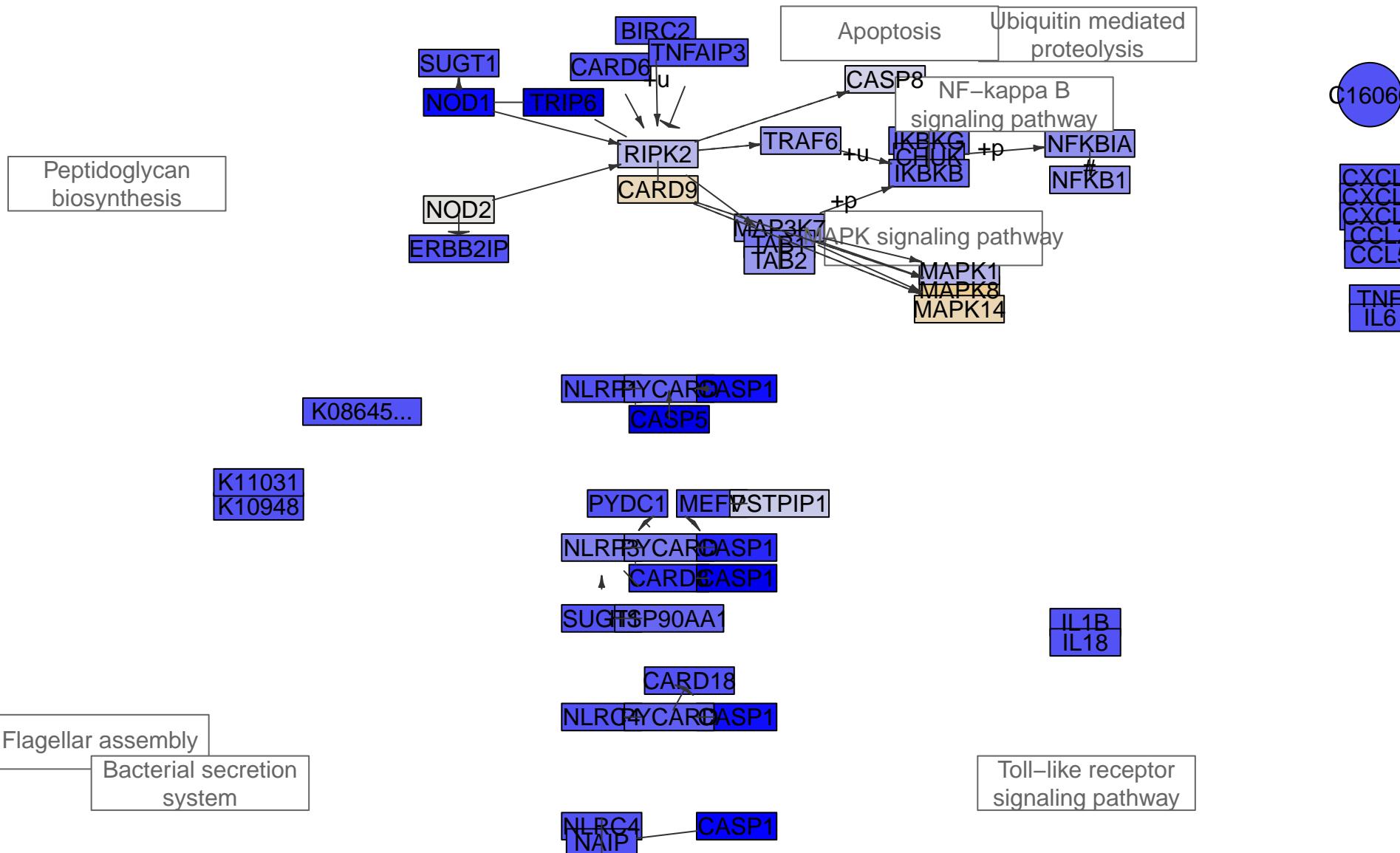
NOD-like receptor
signaling pathway
MPI-166



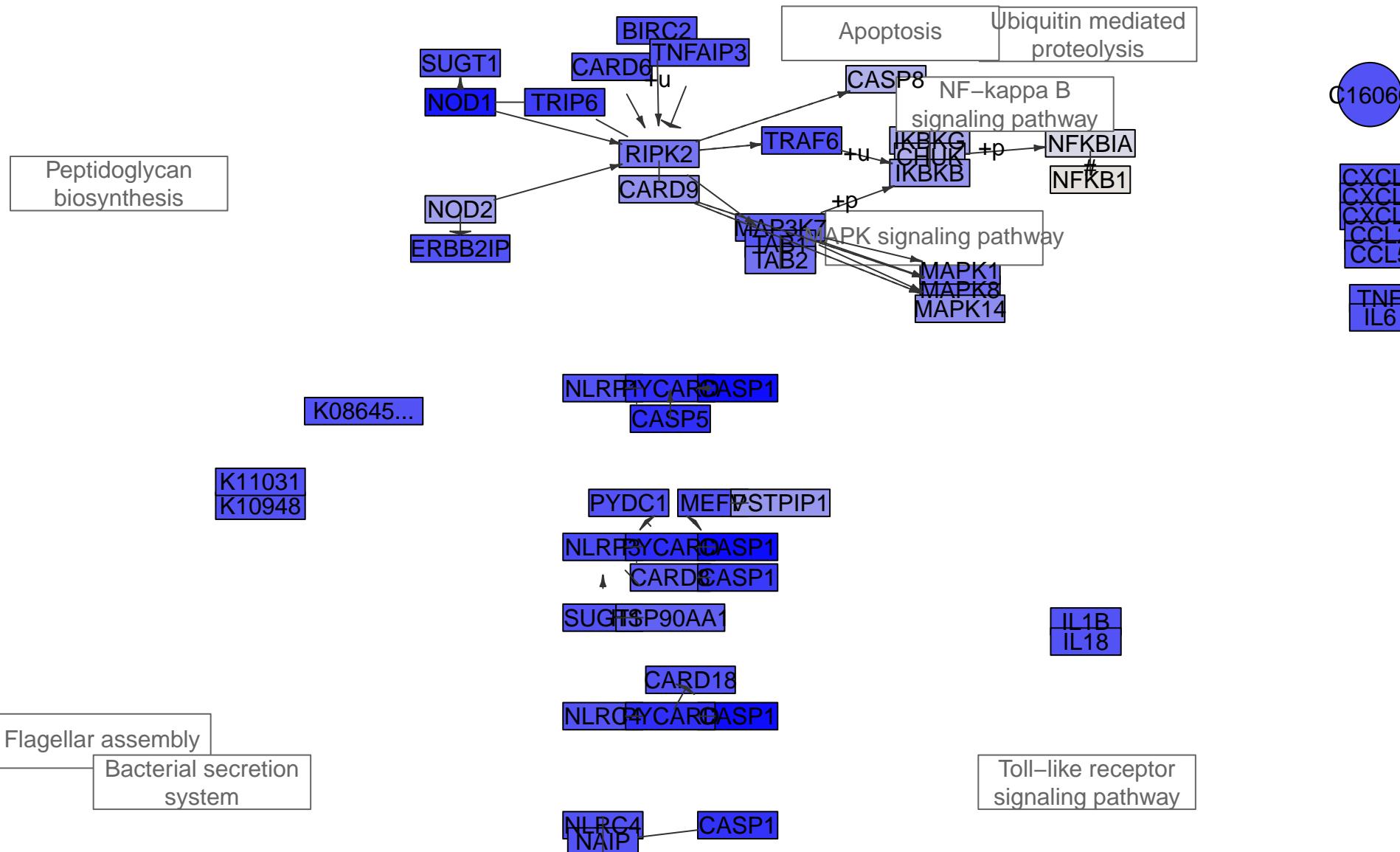
NOD-like receptor
signaling pathway
MPI-167



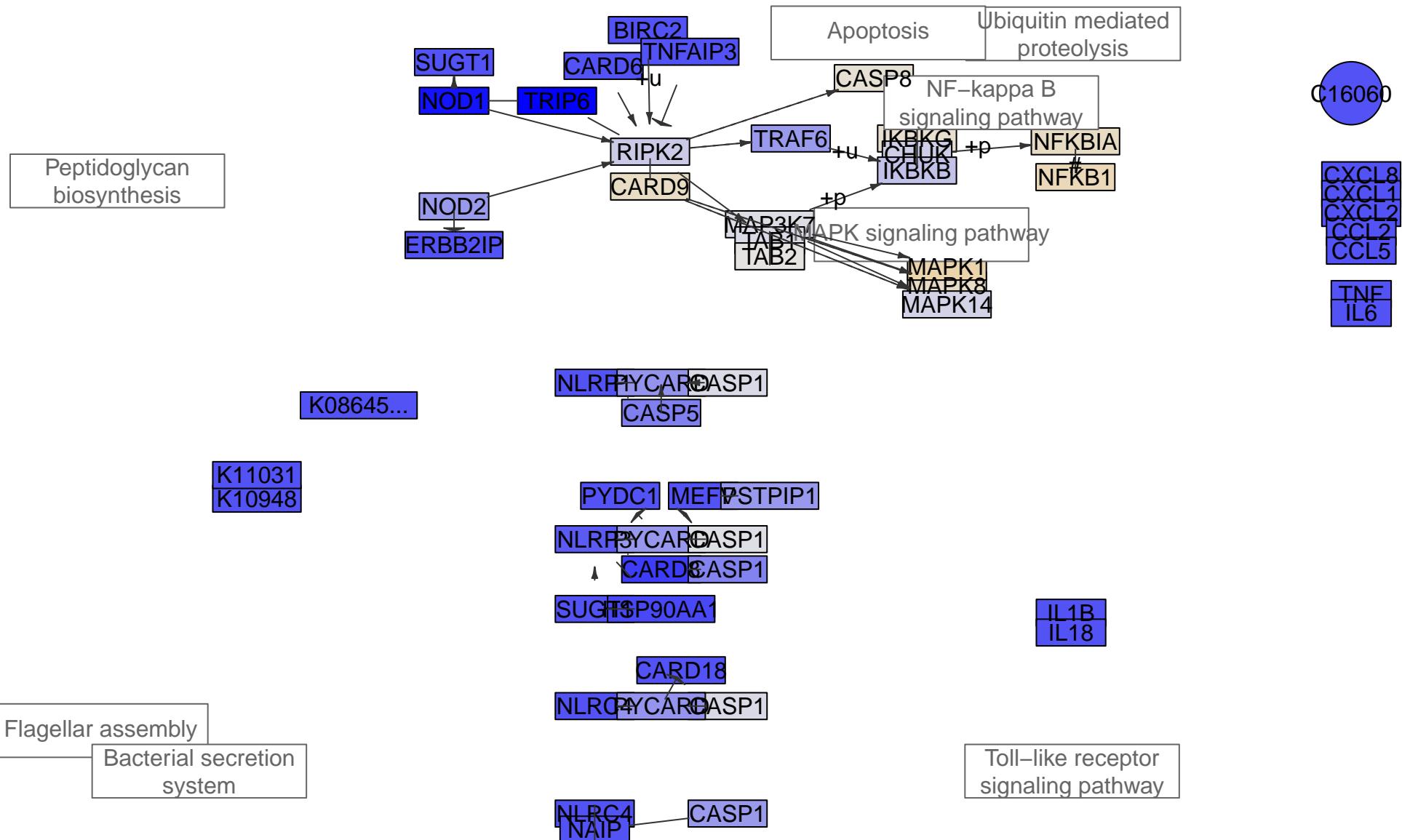
NOD-like receptor
signaling pathway
MPI-168



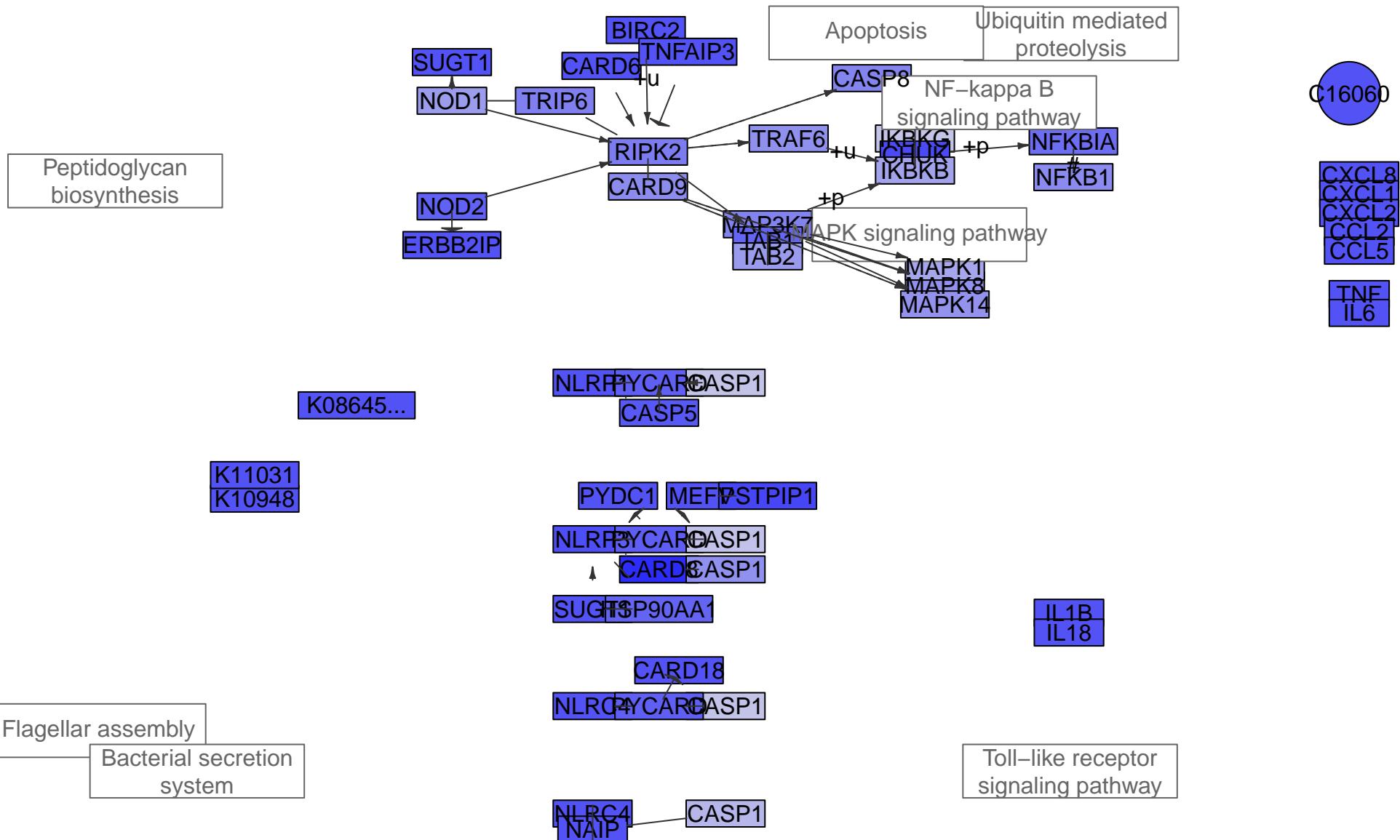
NOD-like receptor
signaling pathway
MPI-170



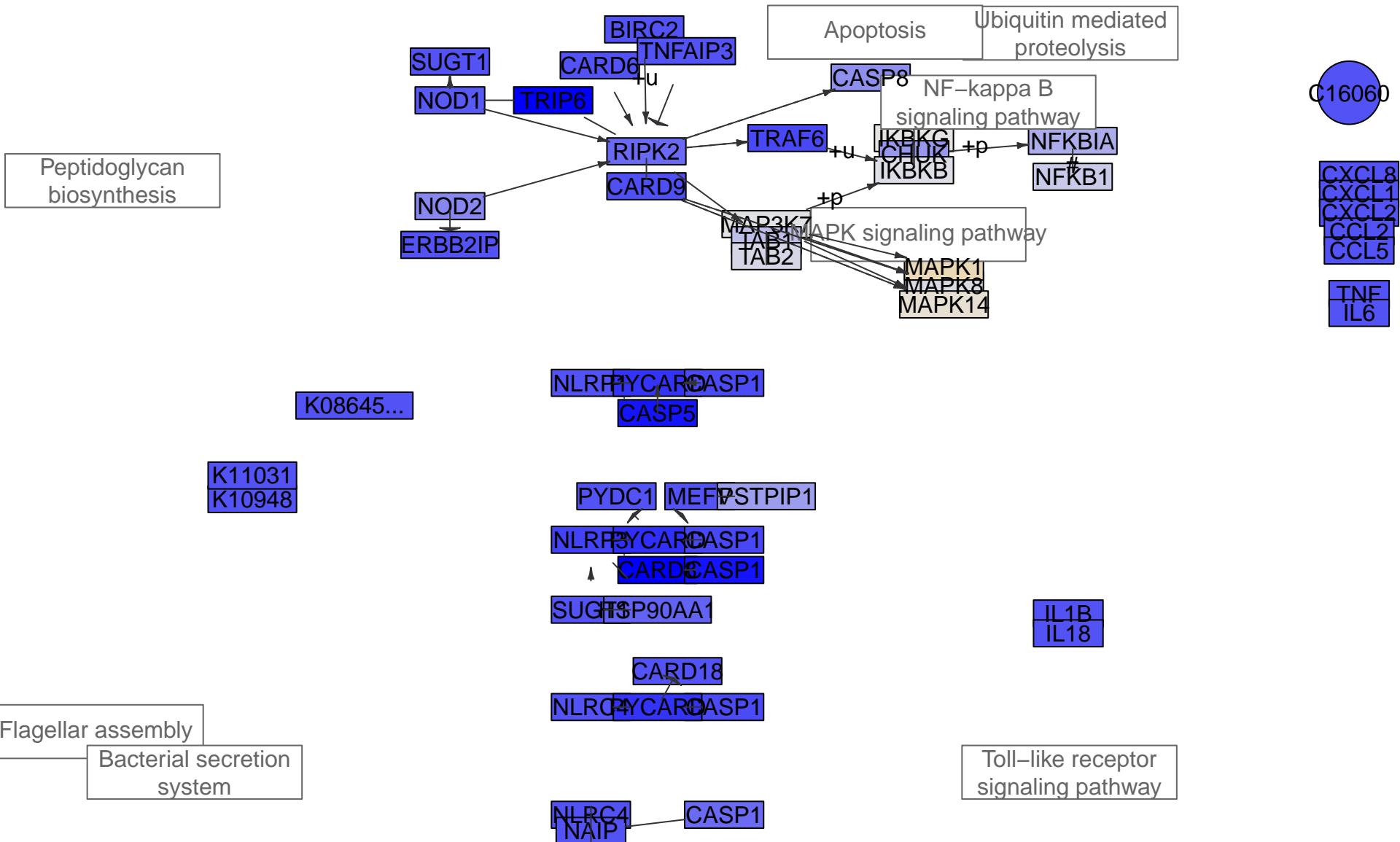
NOD-like receptor
signaling pathway
MPI-173



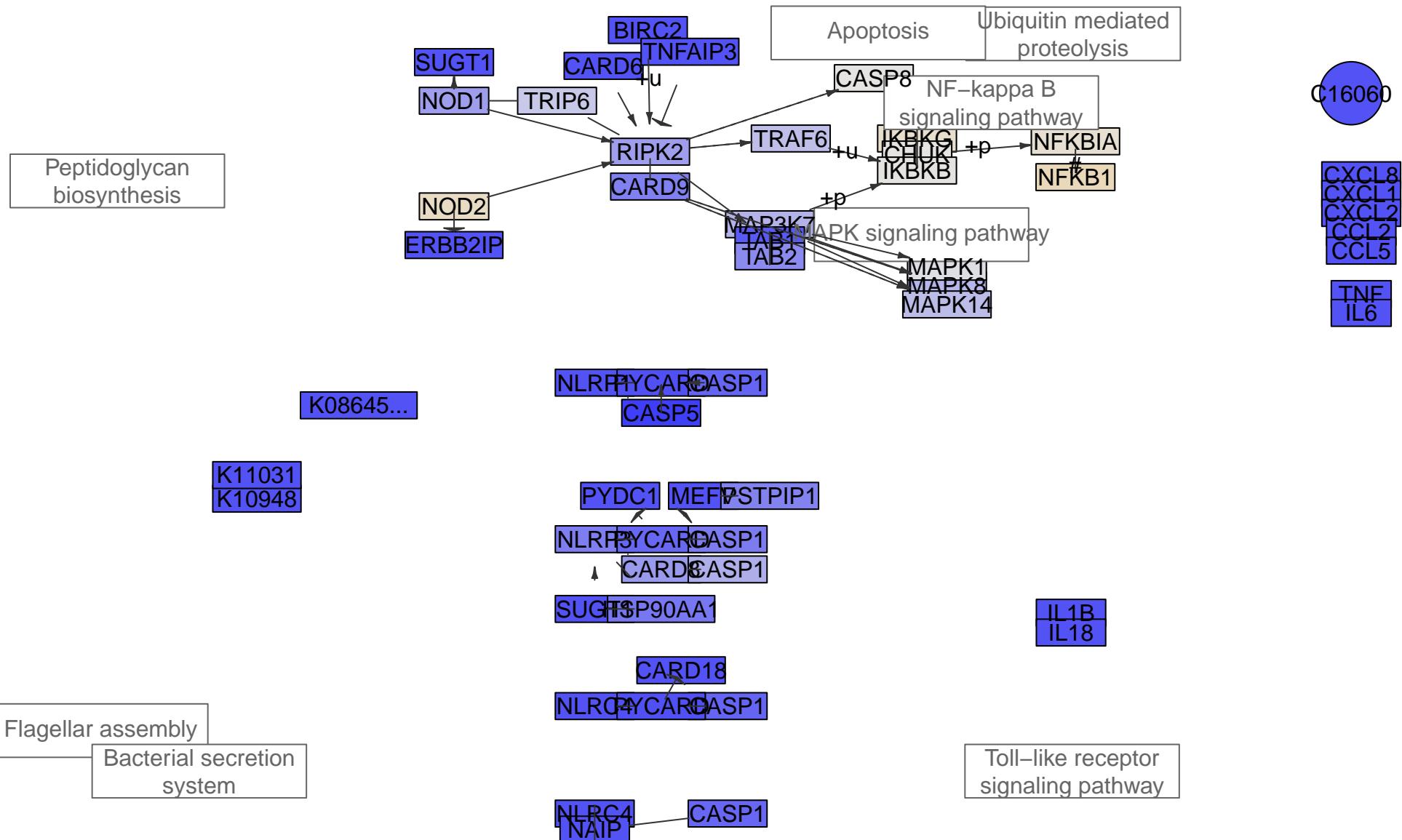
NOD-like receptor
signaling pathway
MPI-174



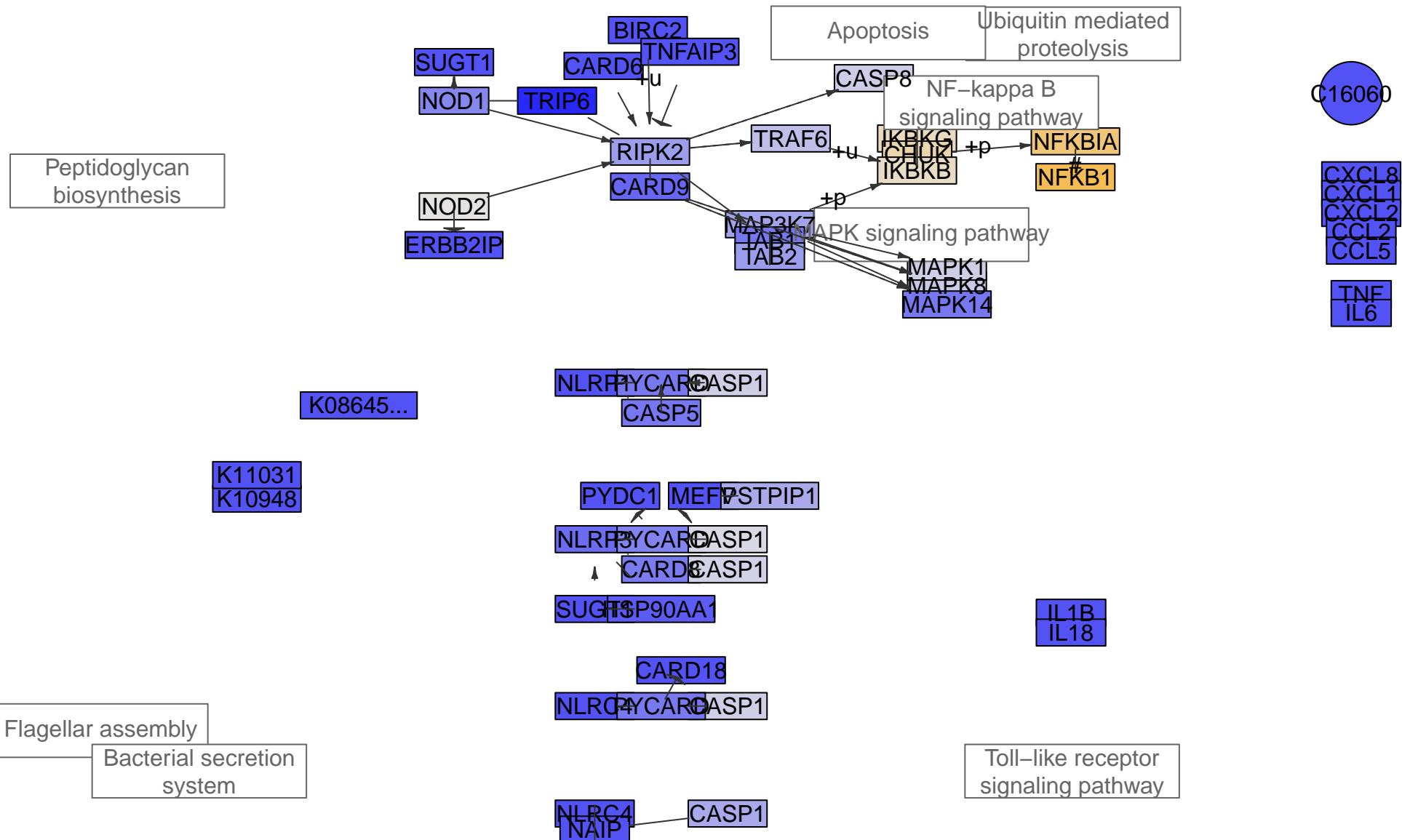
NOD-like receptor
signaling pathway
MPI-176



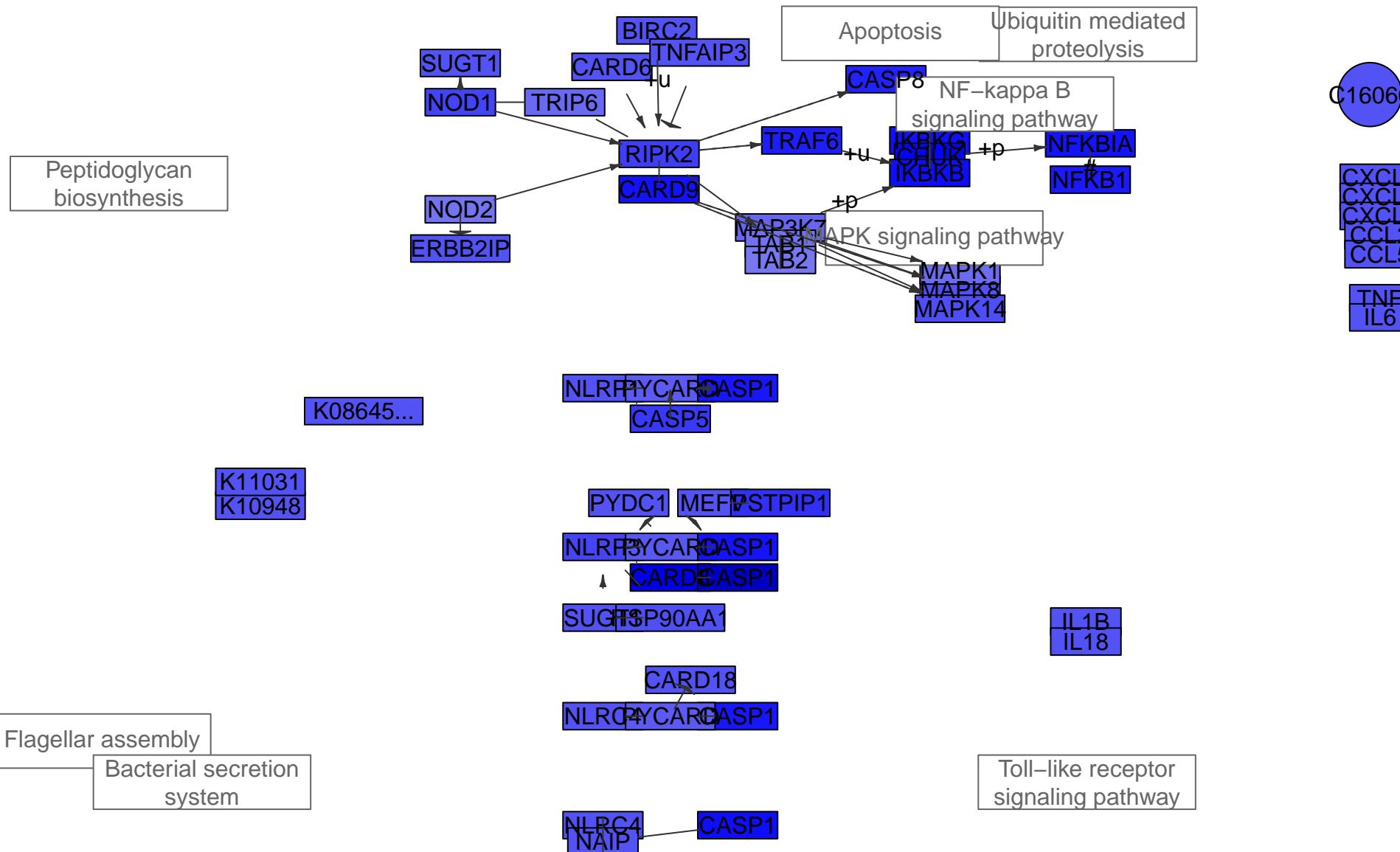
NOD-like receptor
signaling pathway
MPI-177



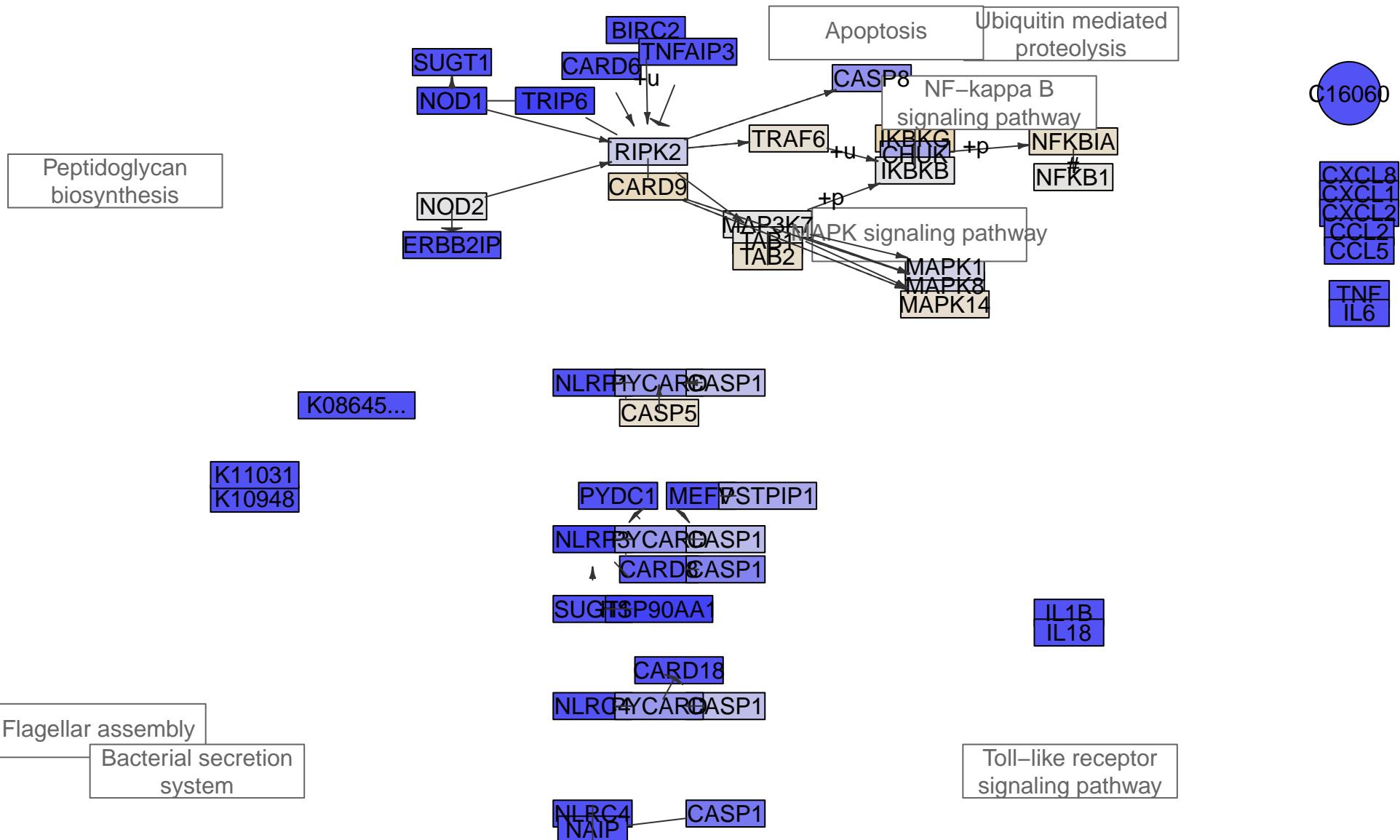
NOD-like receptor
signaling pathway
MPI-178



NOD-like receptor
signaling pathway
MPI-179

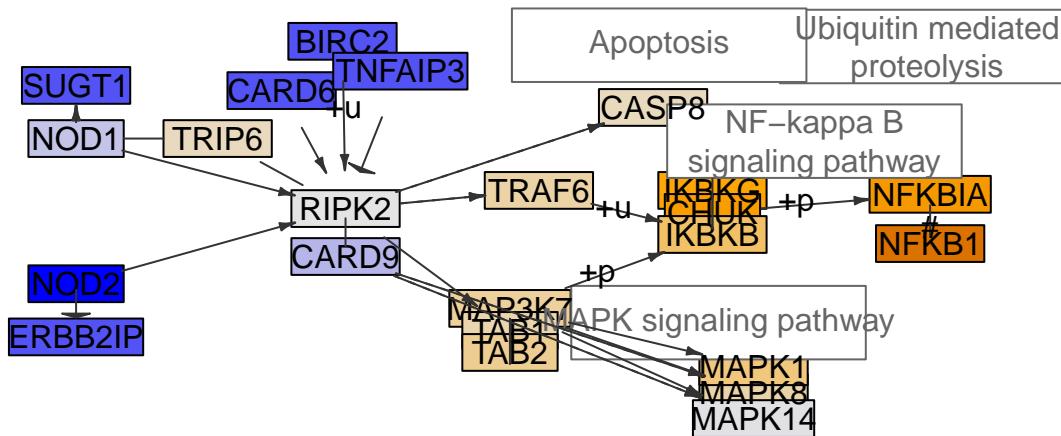


NOD-like receptor
signaling pathway
MPI=180



NOD-like receptor
signaling pathway
MPI-182

Peptidoglycan
biosynthesis



C16060
CXCL8
CXCL1
CXCL2
CCL2
CCL5
TNF
IL6

K08645...

NLRPFYCARDASP1
CASP5

K11031
K10948

PYDC1 MEFV STPIP1
NLRPFYCARDASP1
CARD8ASP1

Flagellar assembly
Bacterial secretion system

IL1B
IL18

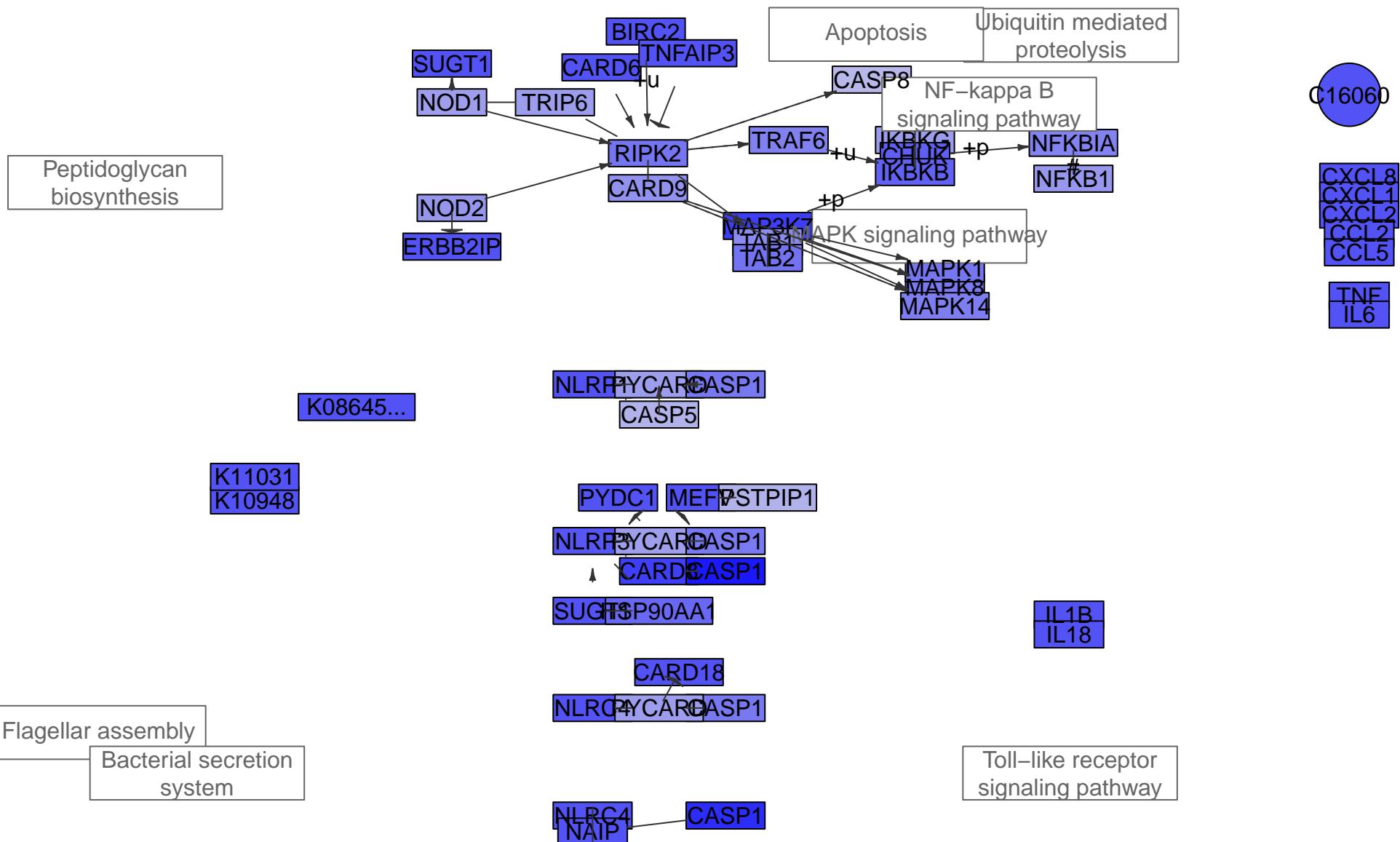
SUGT1SP90AA1

CARD18
NLRPFYCARDASP1

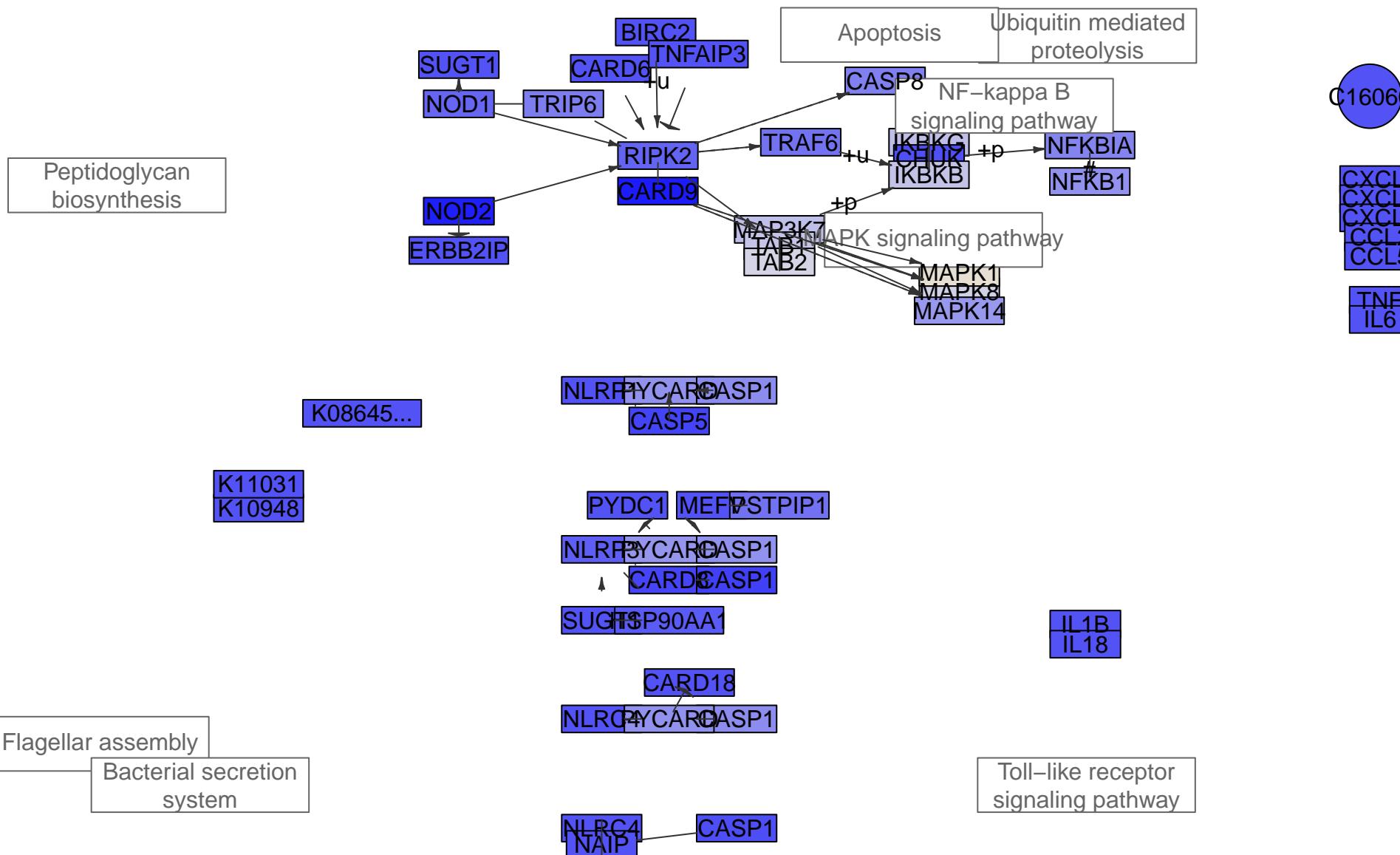
Toll-like receptor
signaling pathway

NLRPFYNAIP
CASP1

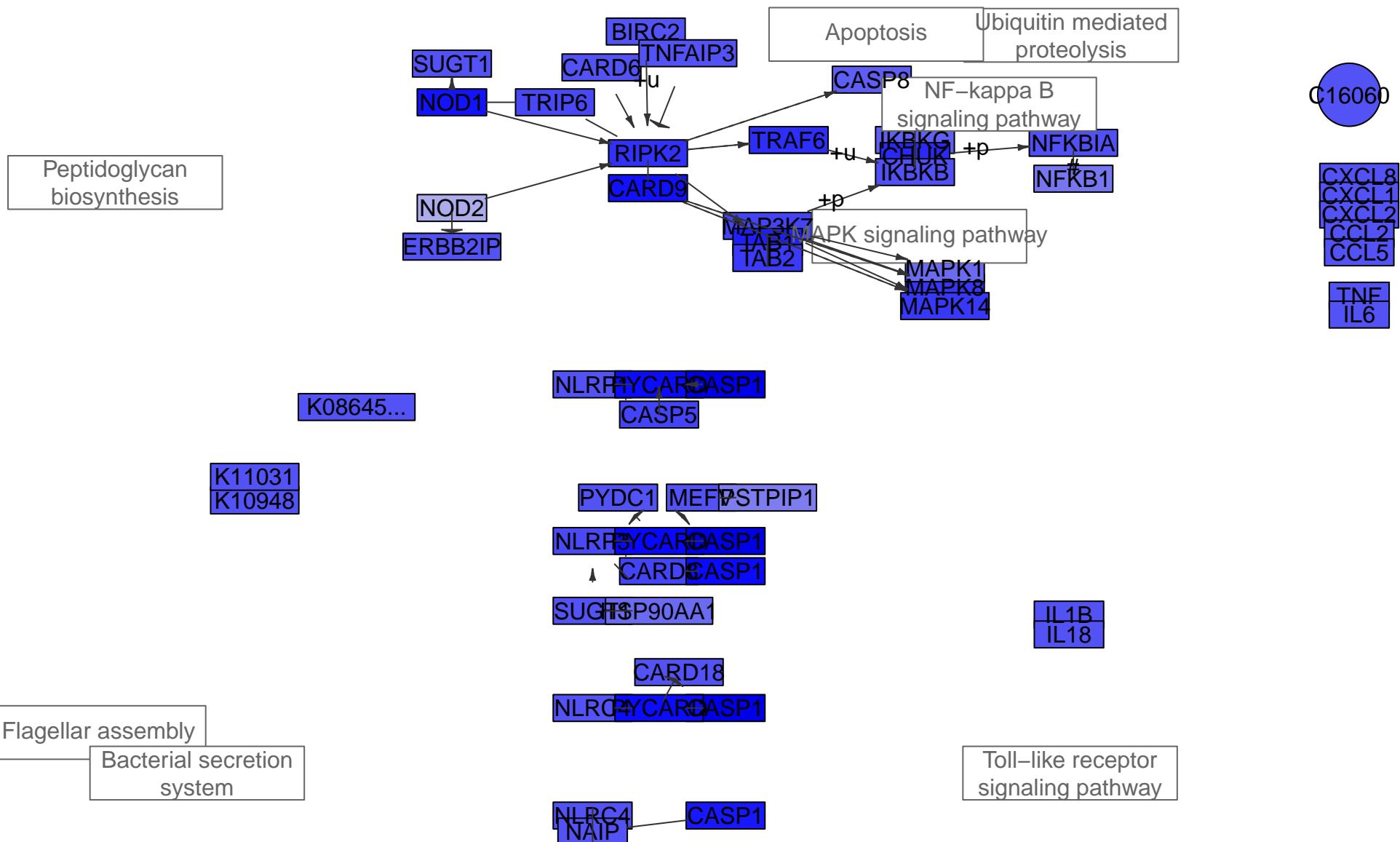
NOD-like receptor
signaling pathway
MPI-183



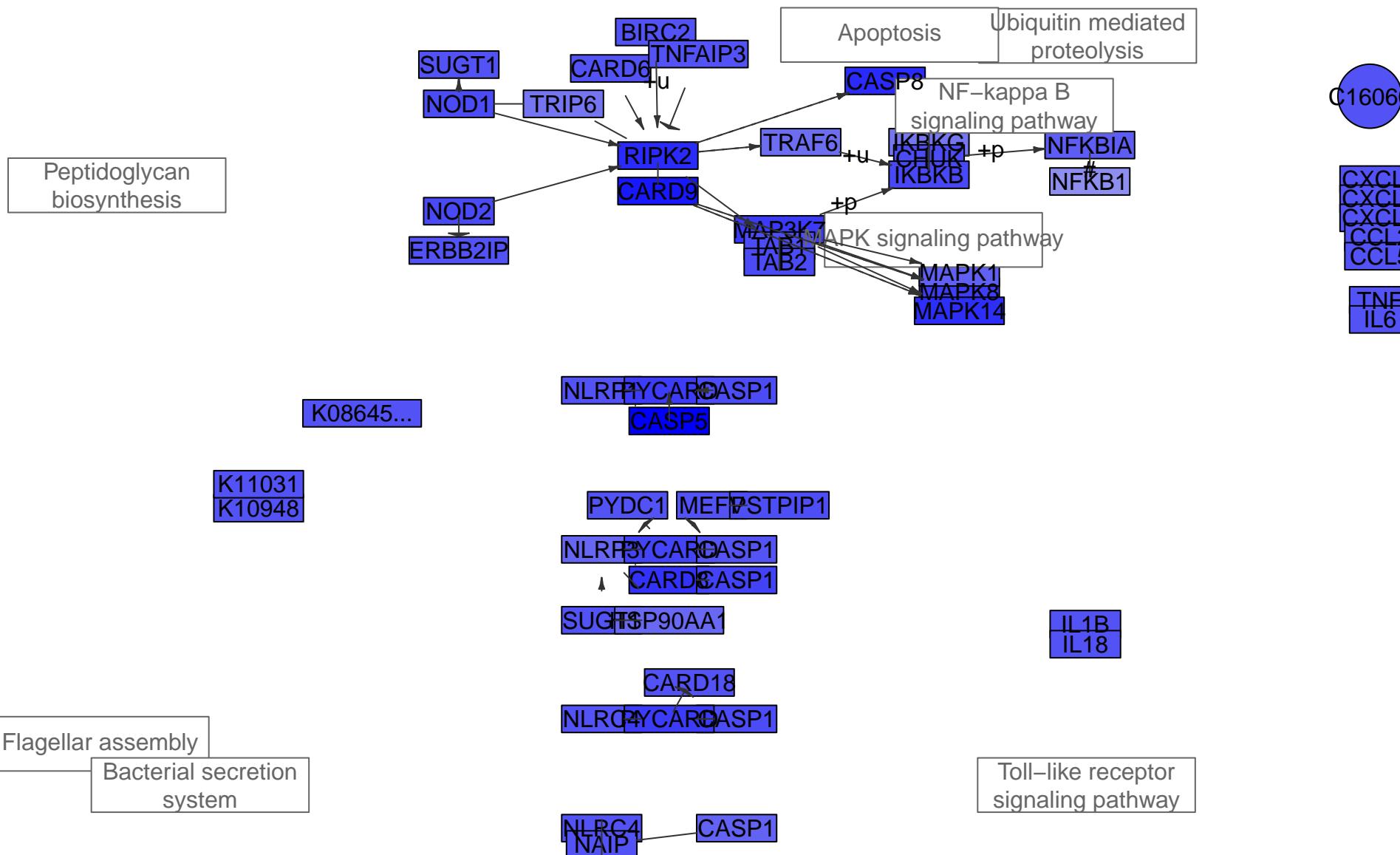
NOD-like receptor
signaling pathway
MPI=184



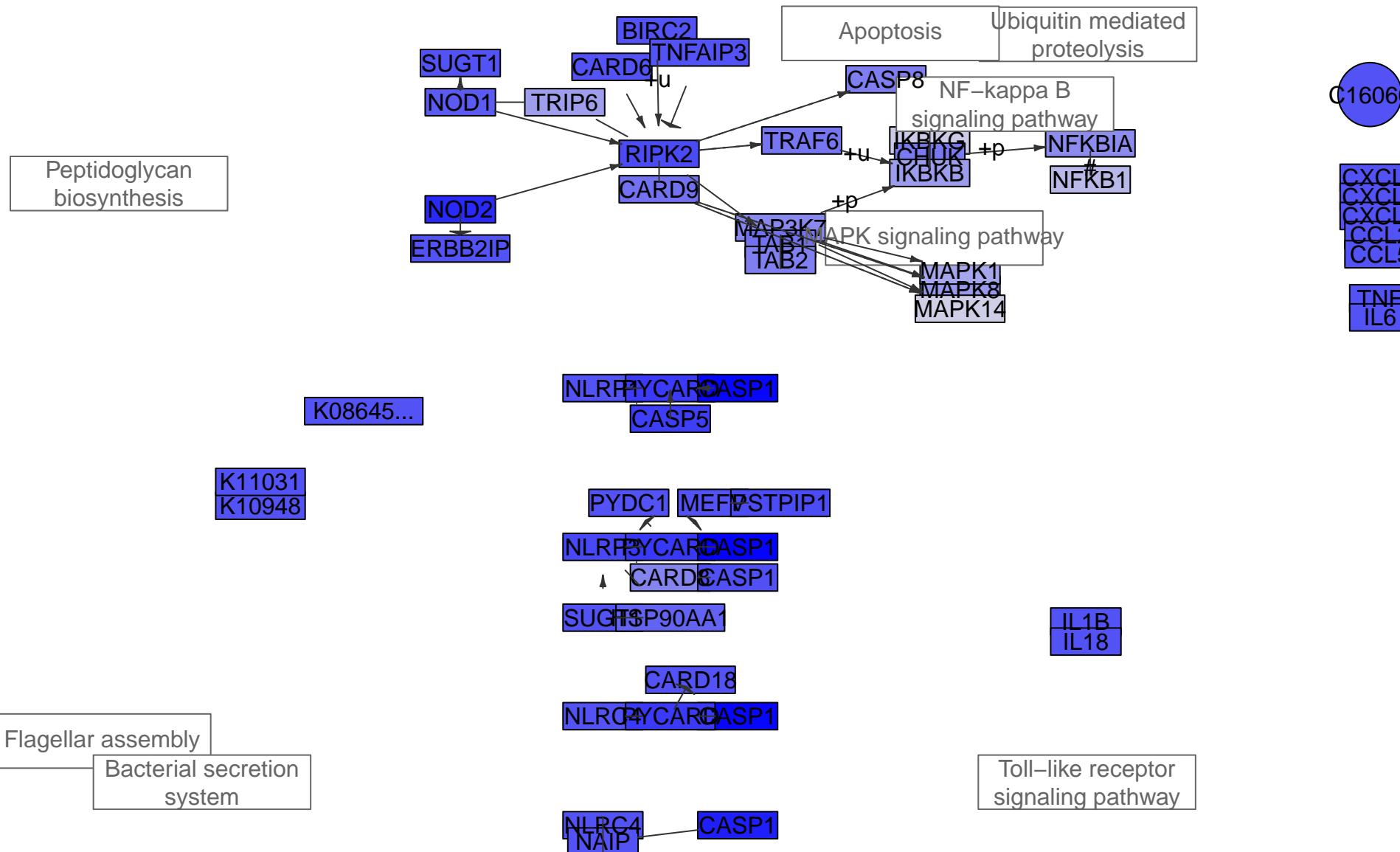
NOD-like receptor
signaling pathway
MPI-185



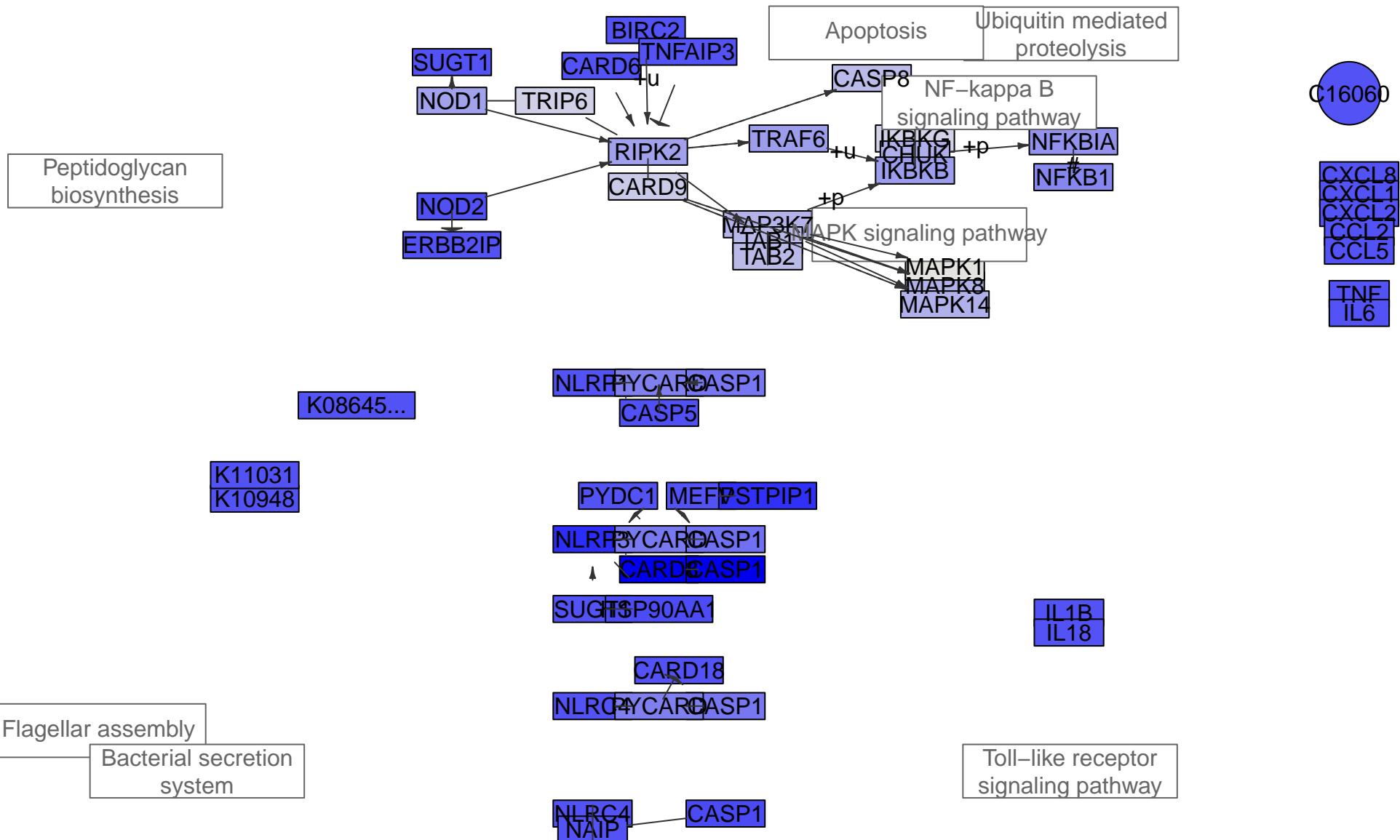
NOD-like receptor
signaling pathway
MPI-186



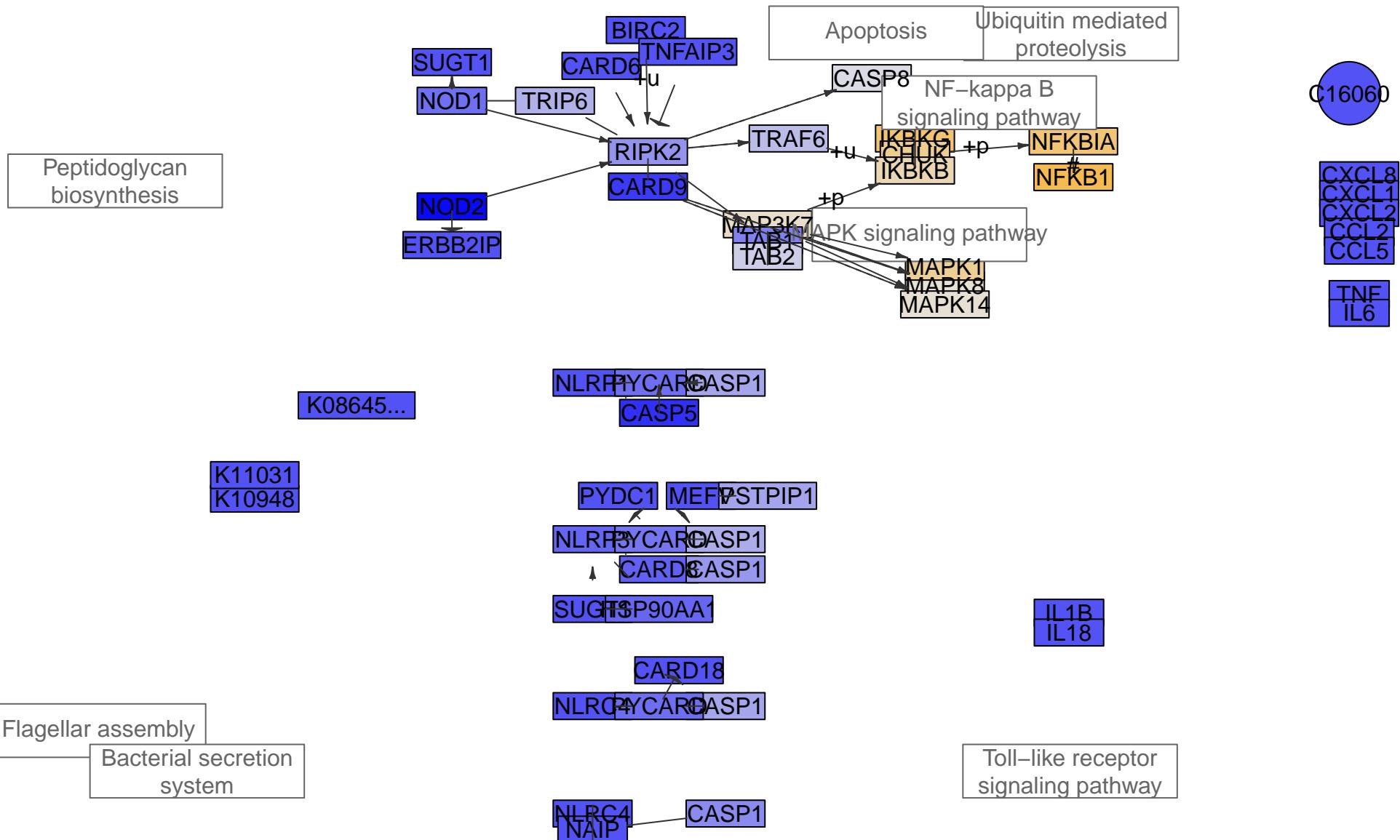
NOD-like receptor
signaling pathway
MPI=188



NOD-like receptor
signaling pathway
MPI-189

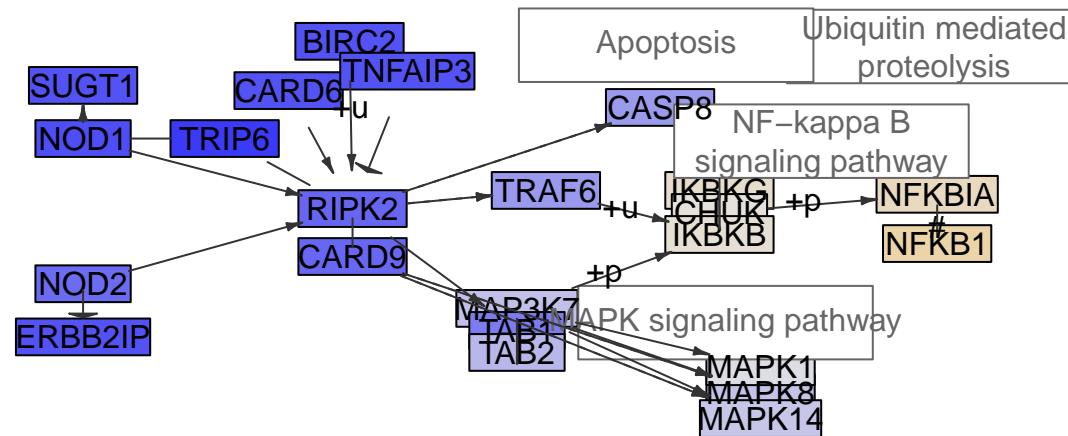


NOD-like receptor
signaling pathway
MPI-190



NOD-like receptor
signaling pathway
MPI-191

Peptidoglycan
biosynthesis



C16060
CXCL8
CXCL1
CXCL2
CCL2
CCL5
TNF
IL6

K08645...

NLRP3PYCARD8CASP1
CASP5

K11031
K10948

PYDC1 MEF17 PSTPIP1
NLRP3PYCARD8CASP1
CARD8CASP1

Flagellar assembly
Bacterial secretion system

IL1B
IL18

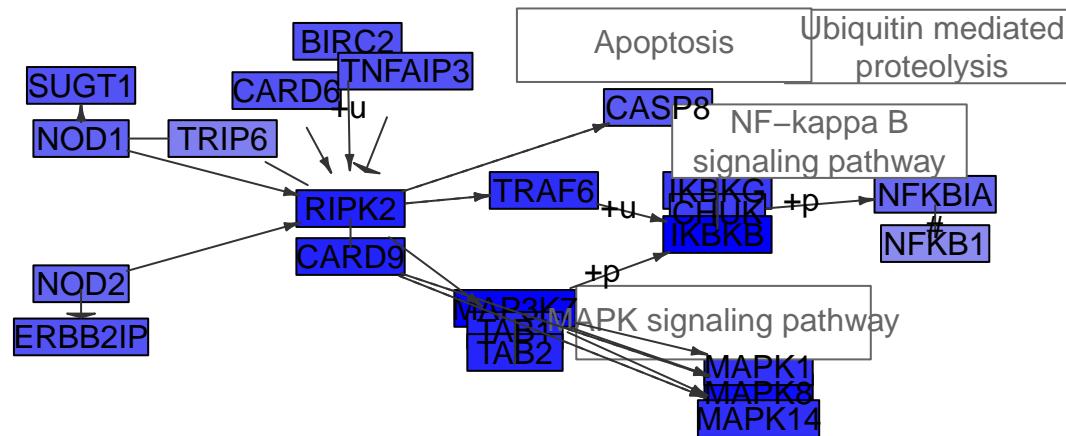
SUGT1\$P90AA1
CARD18
NLRP4PYCARD8CASP1

Toll-like receptor
signaling pathway

NLRP4NAIP
CASP1

NOD-like receptor
signaling pathway
MPI-192

Peptidoglycan
biosynthesis



C16060
CXCL8
CXCL1
CXCL2
CCL2
CCL5
TNF
IL6

K08645...

NLRP3PYCARD8CASP1
CASP5

K11031
K10948

PYDC1 MEFV PSTPIP1
NLRP3PYCARD8CASP1
CARD8CASP1

Flagellar assembly
Bacterial secretion system

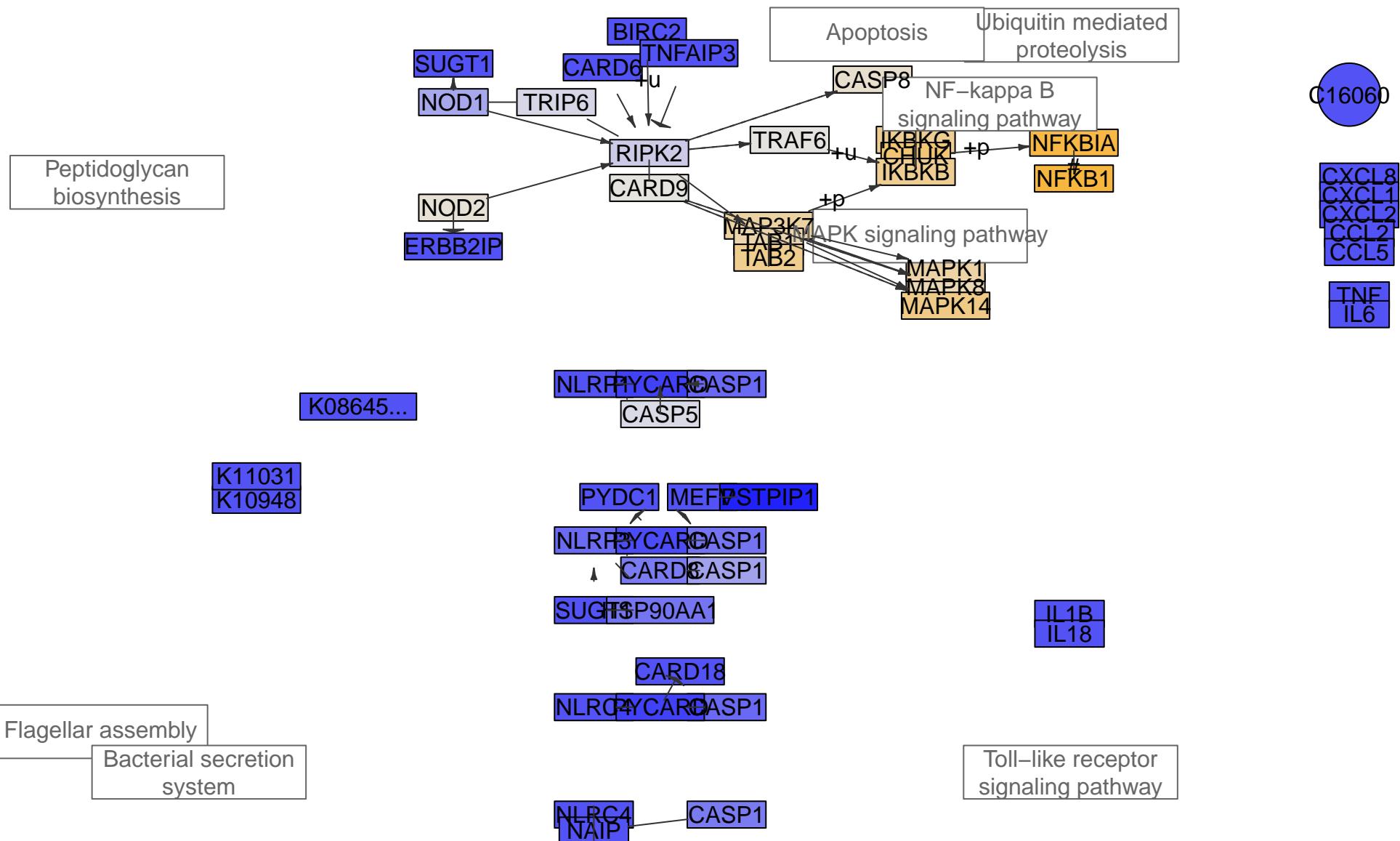
IL1B
IL18

SUGT1 SP90AA1
CARD18
NLRP4PYCARD8CASP1

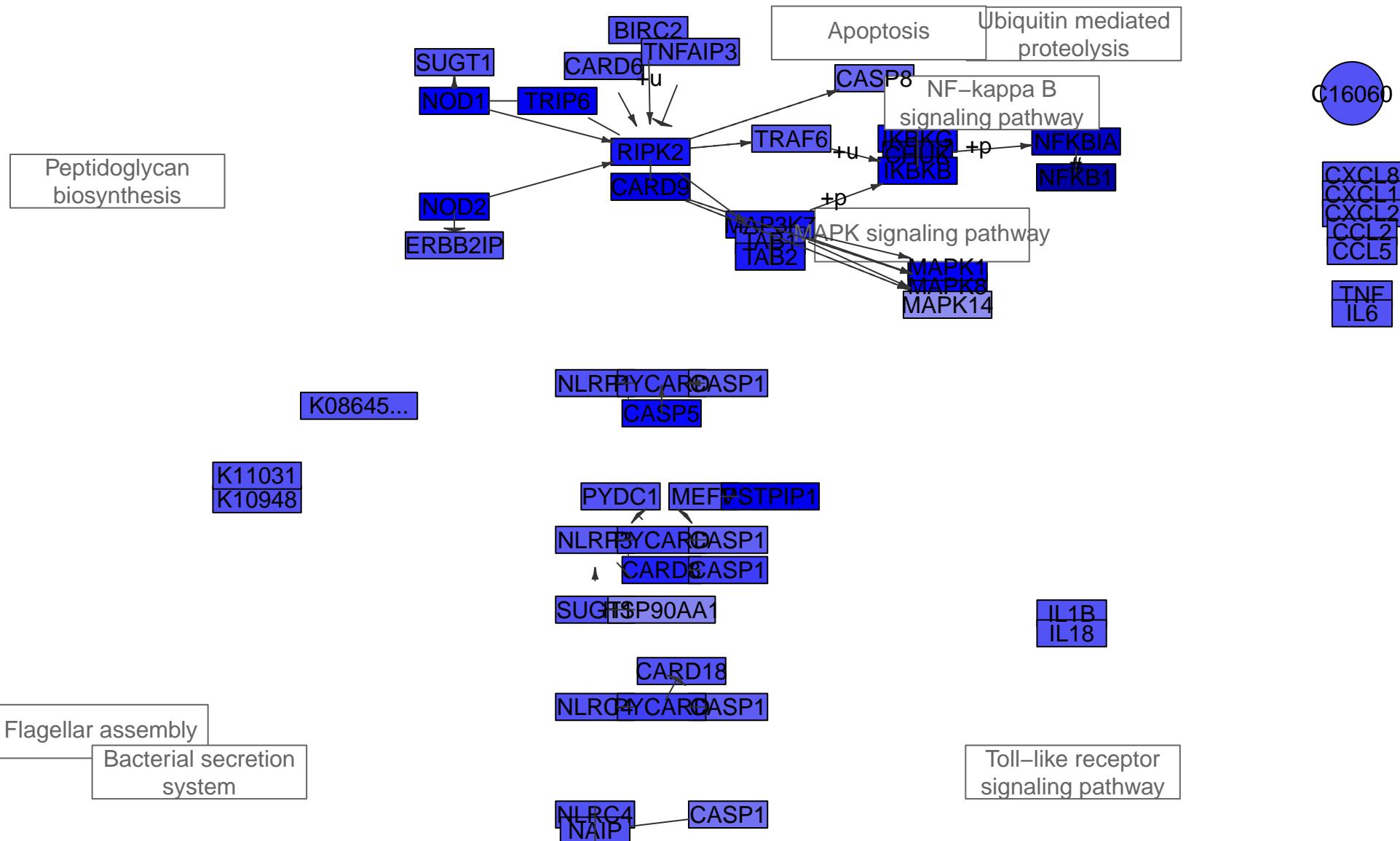
Toll-like receptor
signaling pathway

NLRP4 NAIP
CASP1

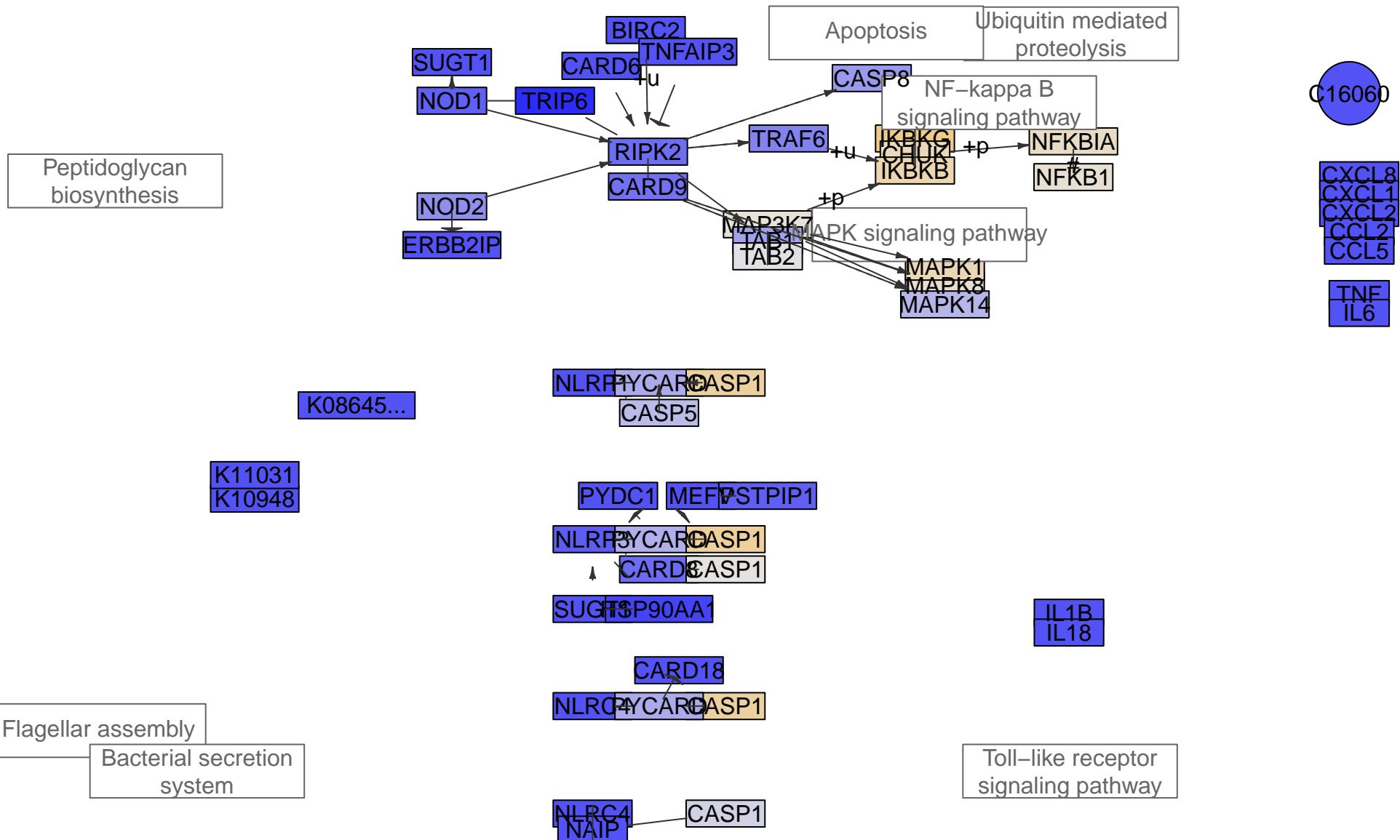
NOD-like receptor
signaling pathway
MPI-194



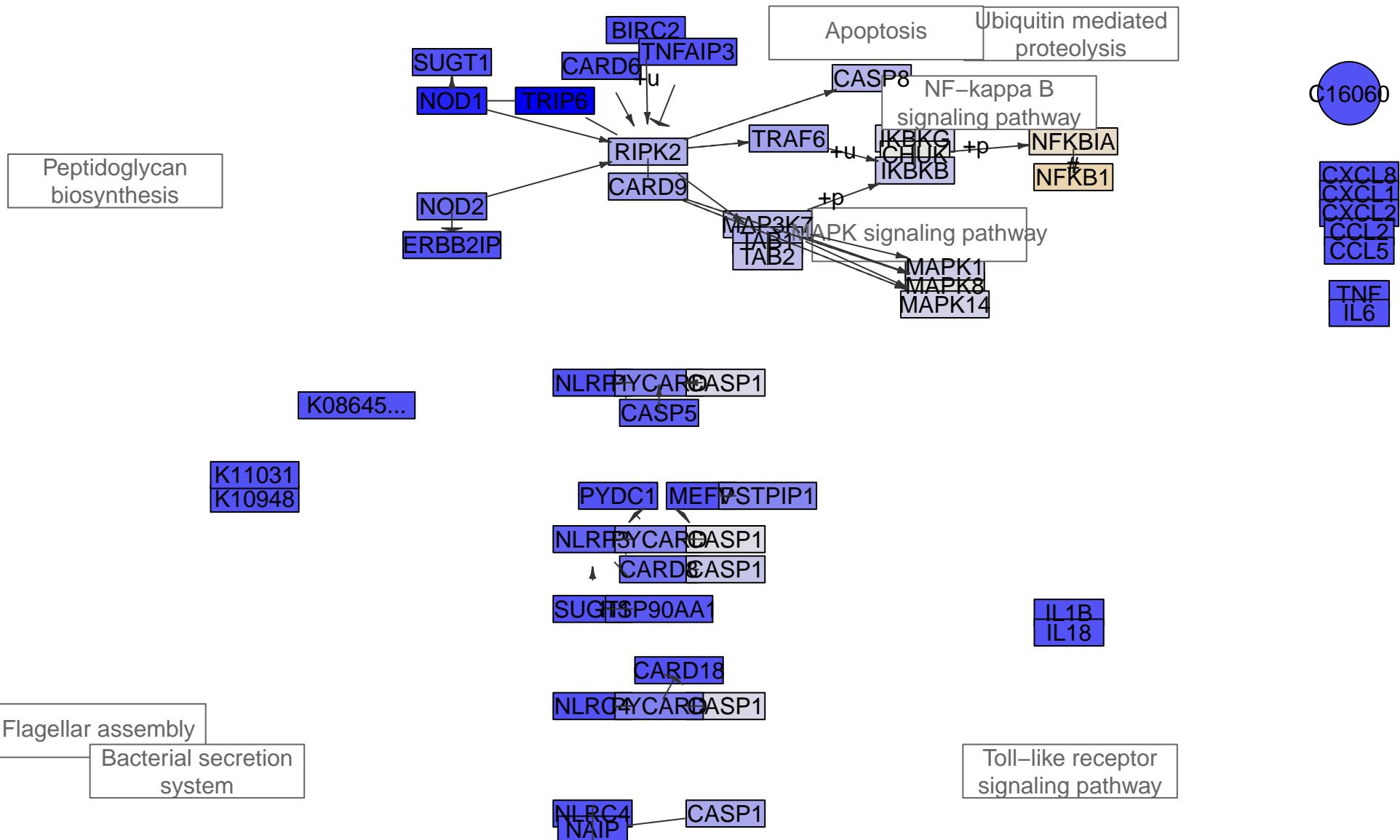
NOD-like receptor
signaling pathway
MPI-195



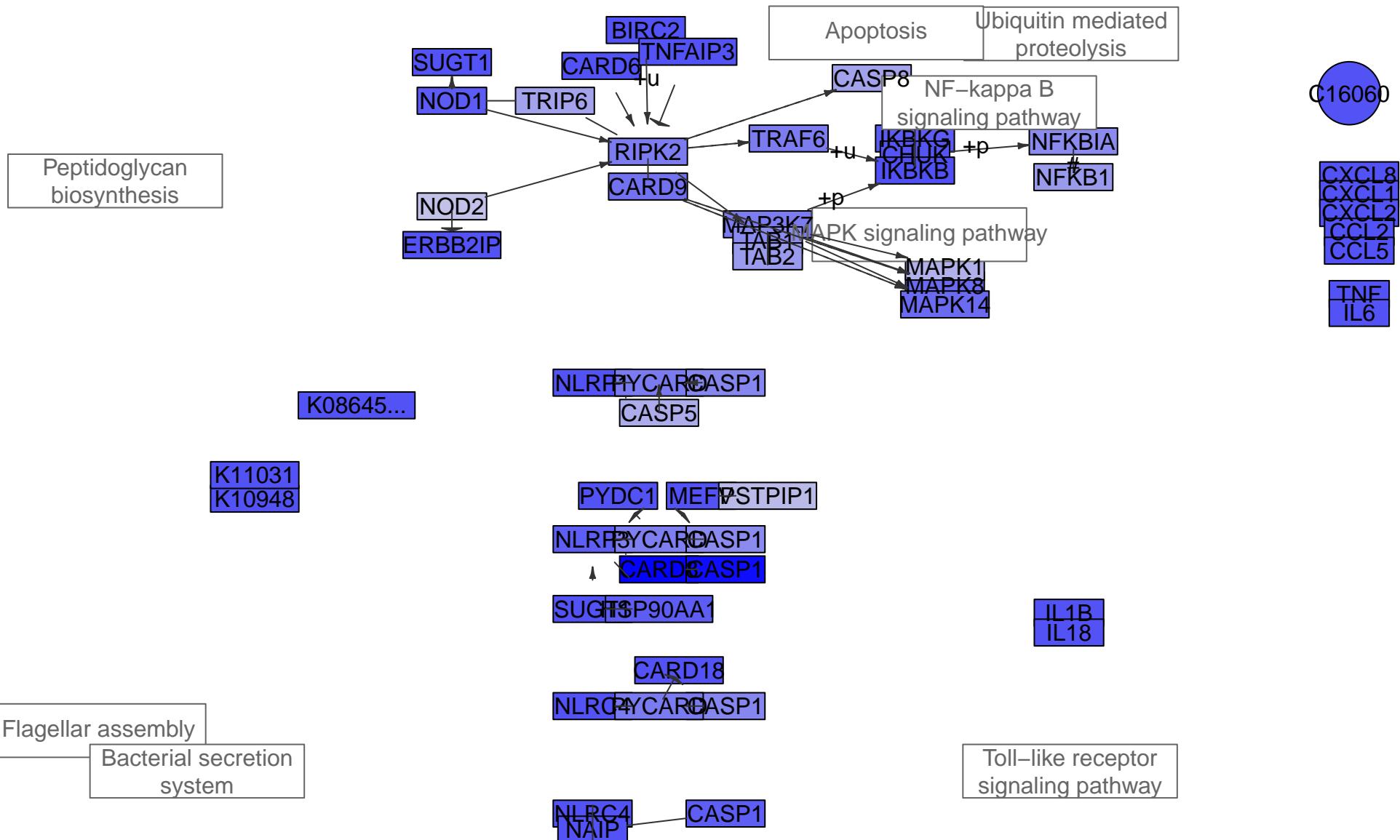
NOD-like receptor
signaling pathway
MPI-196



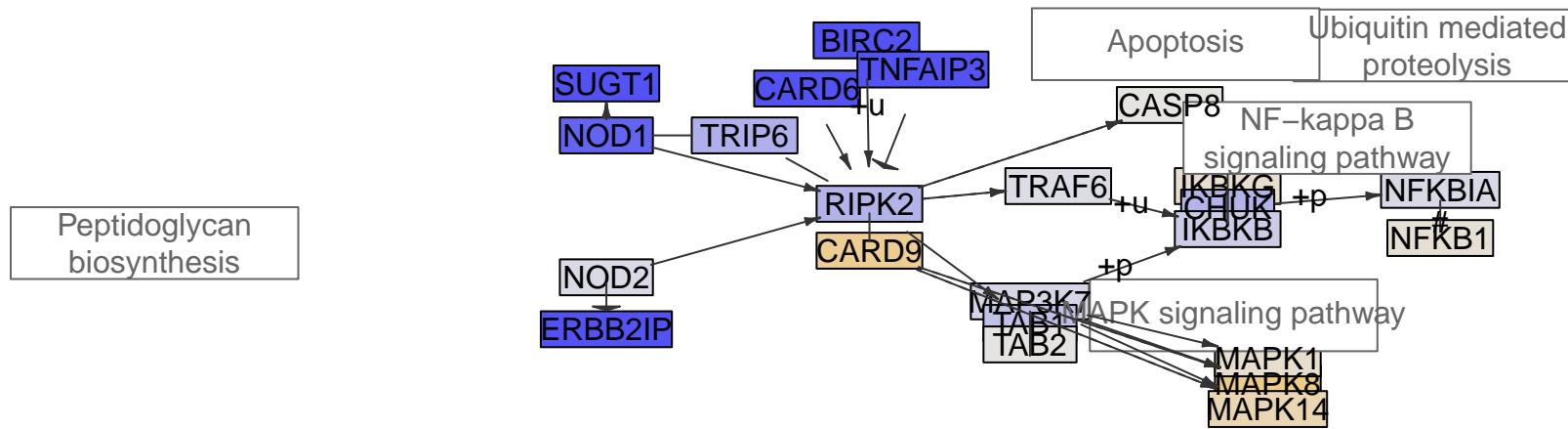
NOD-like receptor
signaling pathway
MPI-198



NOD-like receptor
signaling pathway
MPI-199



NOD-like receptor signaling pathway MPI-200



C16060

CXCL8
CXCL1
CXCL2
CCL2
CCL5

TNF
IL6

K08645...

NLRP1 PYCARD CASP1
CASP5

K11031
K10948

```

graph TD
    PYDC1[PYDC1] --> NLRP3[NLRP3]
    PYDC1 --> CYCA[CYCA]
    PYDC1 --> CASP1[CASP1]
    MEFV[MEFV] --> NLRP3
    MEFV --> CYCA
    MEFV --> STPIP1[STPIP1]
    STPIP1 --> CYCA
    STPIP1 --> CASP1
    CYCA --> CARD8[CARD8]
    CYCA --> CASP1
    CASP1 --> CARD8
    CASP1 --> CARD8

```

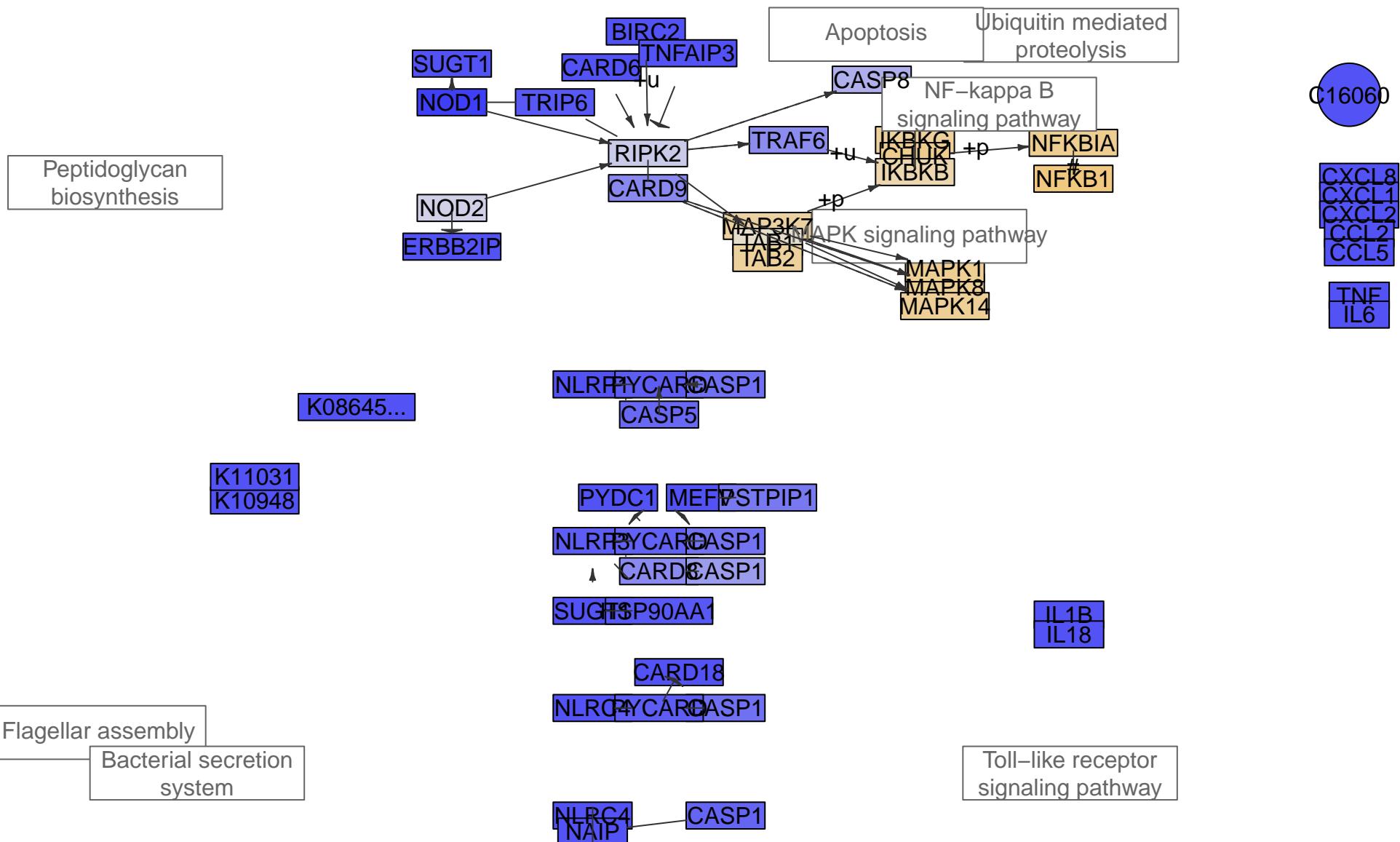
IL1B
IL18

Flagellar assembly
Bacterial secretion system

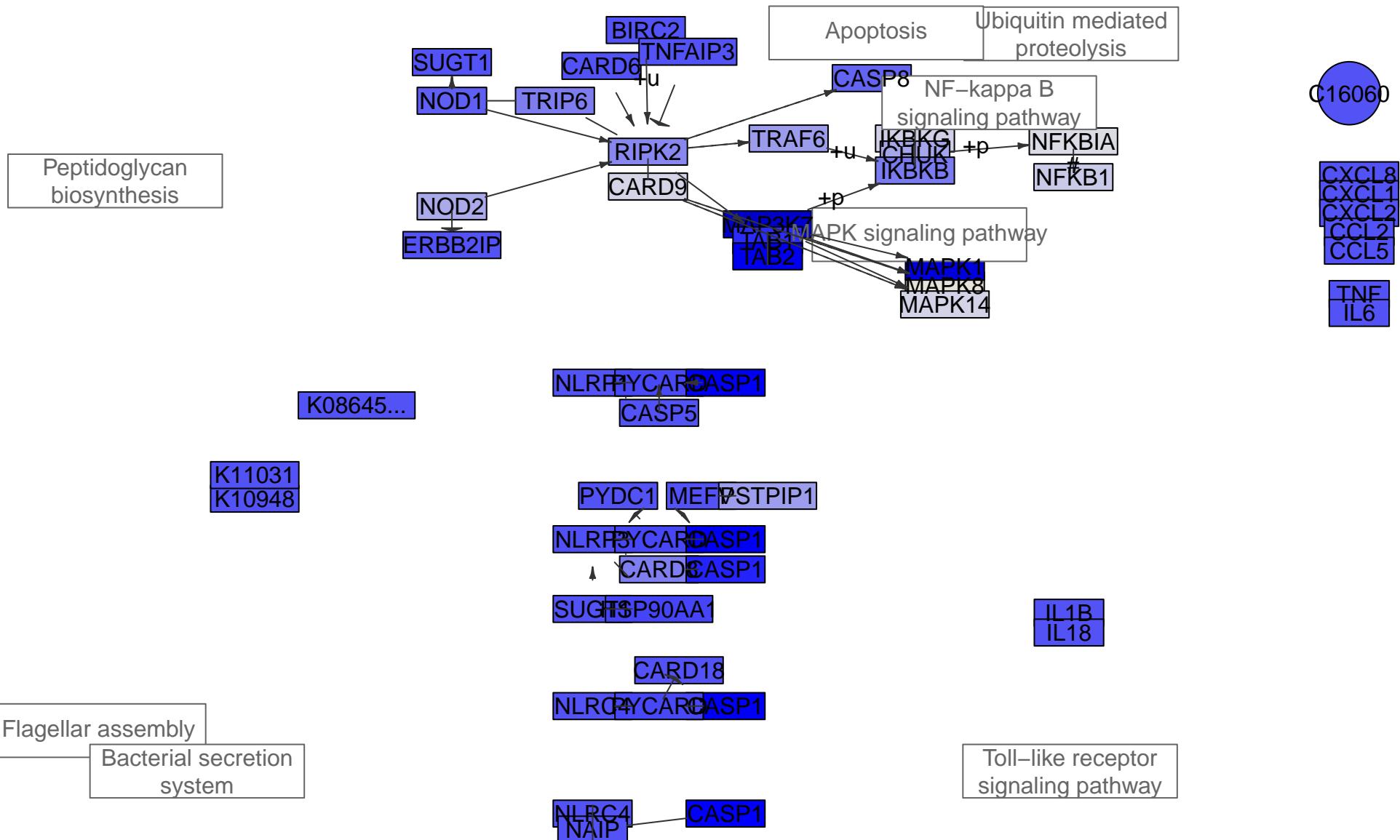
Toll-like receptor signaling pathway

NLRP4
NAIP → CASP1

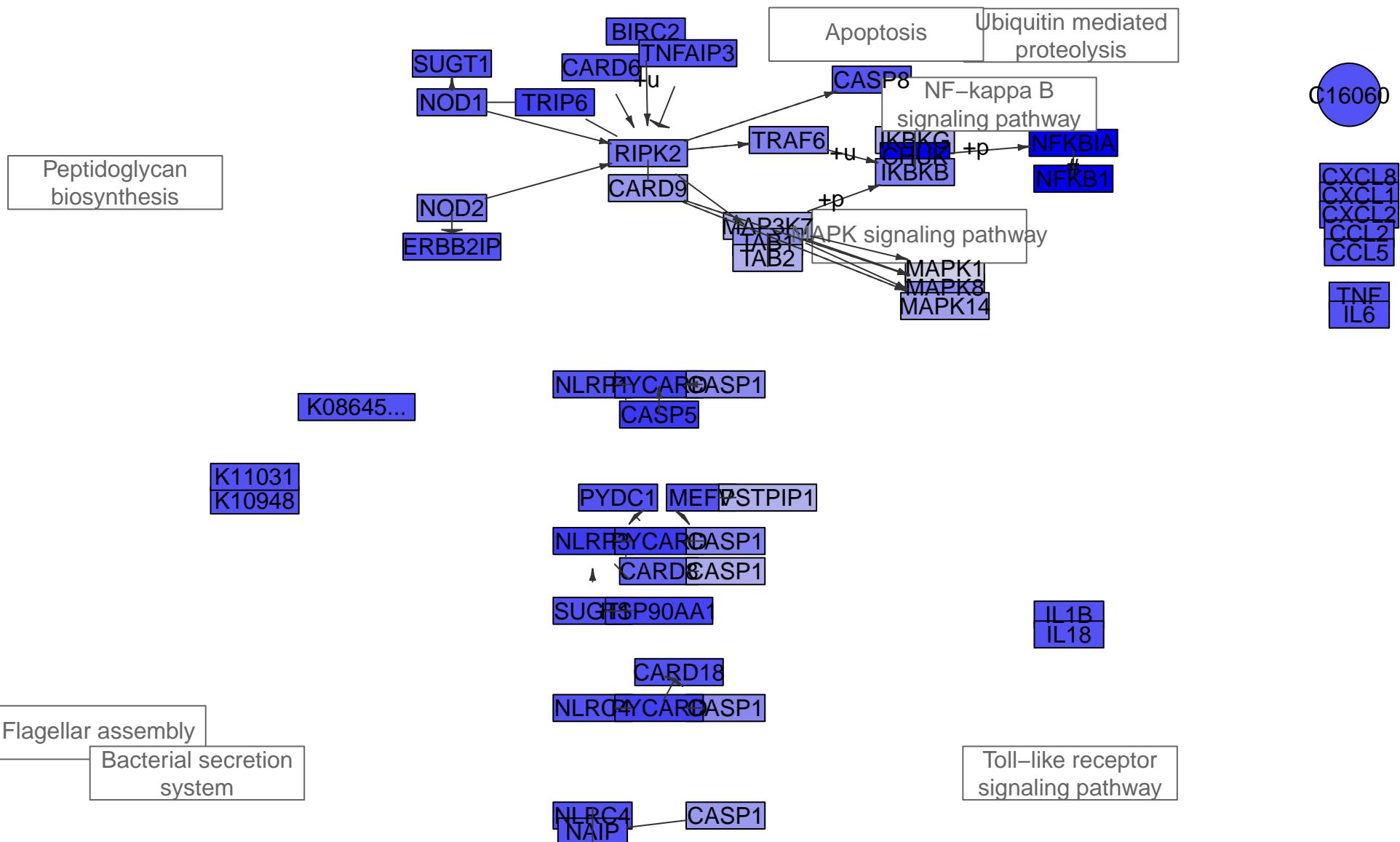
NOD-like receptor
signaling pathway
MPI-201



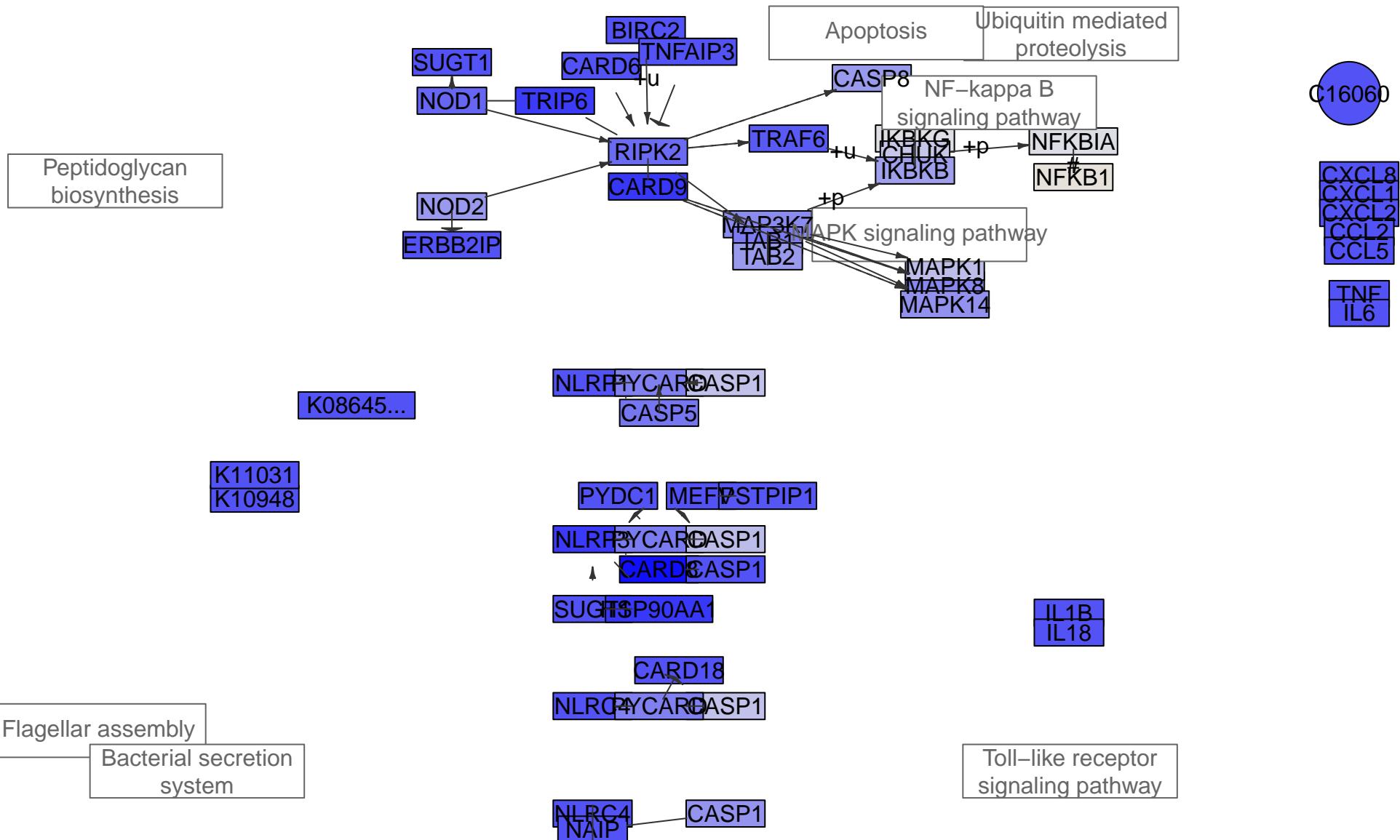
NOD-like receptor
signaling pathway
MPI-202



NOD-like receptor
signaling pathway
MPI-203

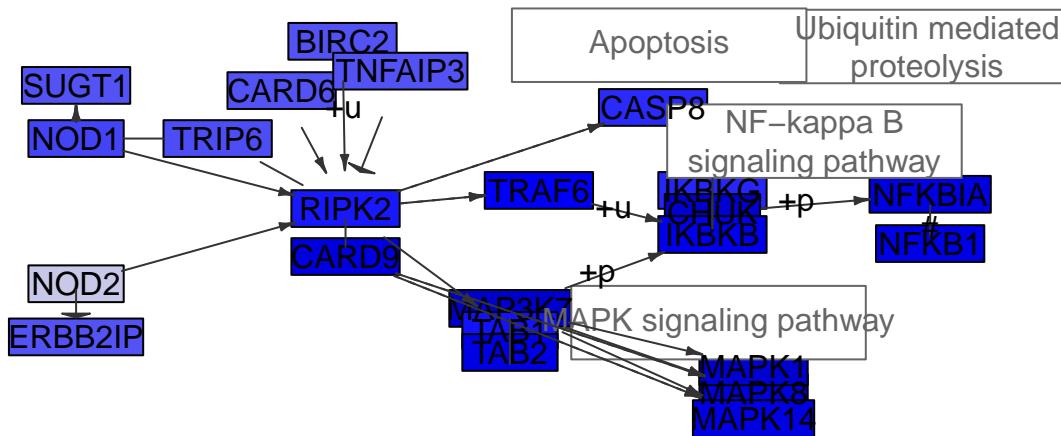


NOD-like receptor
signaling pathway
MPI-204



NOD-like receptor
signaling pathway
MPI-205

Peptidoglycan
biosynthesis



C16060
CXCL8
CXCL1
CXCL2
CCL2
CCL5
TNF
IL6

K08645...

NLRPF3YCARD8CASP1
CASP5

K11031
K10948

PYDC1 MEFV PSTPIP1
NLRPF3YCARD8CASP1
CARD8CASP1

Flagellar assembly
Bacterial secretion system

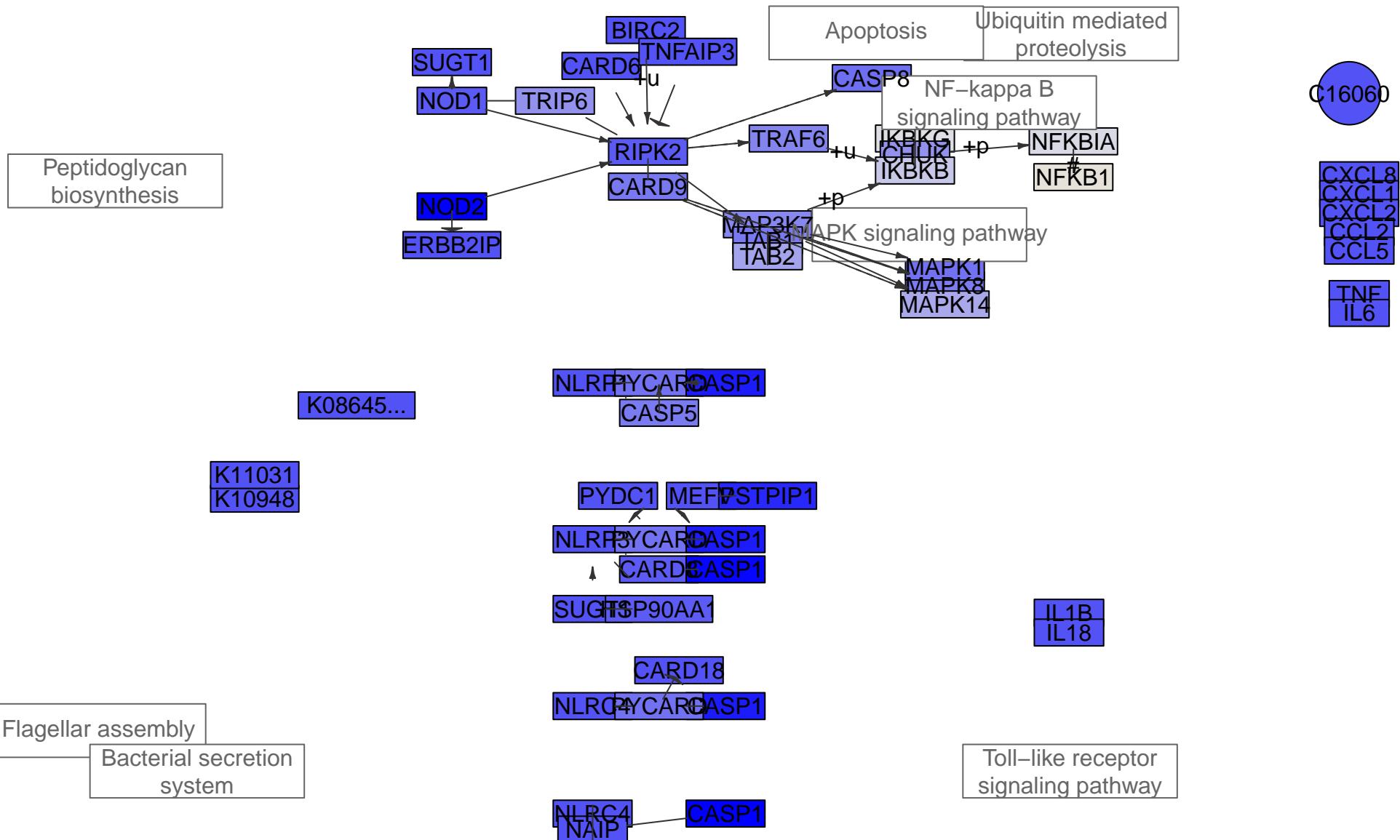
IL1B
IL18

SUGT1 SP90AA1
CARD18
NLRPF3YCARD8CASP1

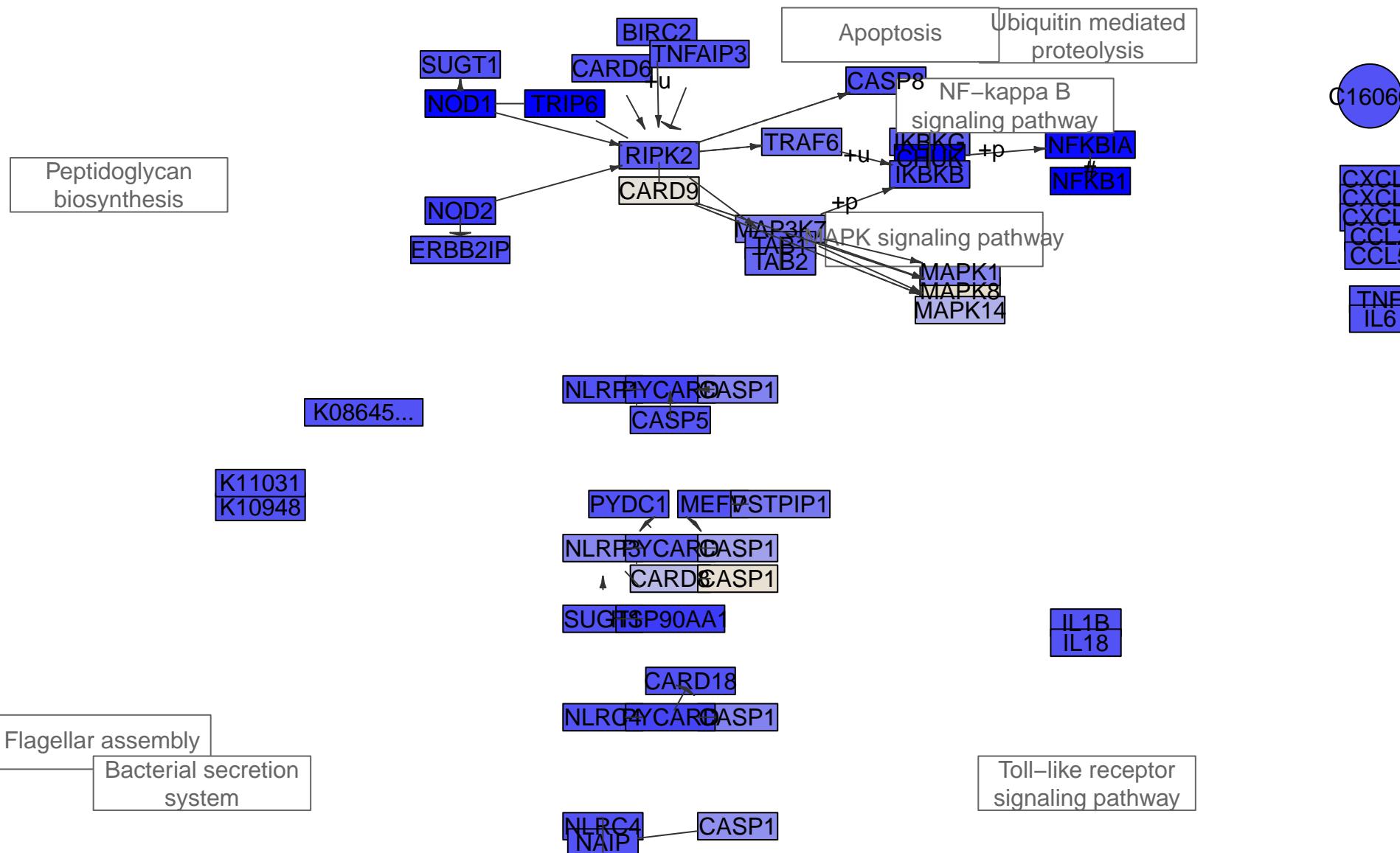
Toll-like receptor
signaling pathway

NLRPF4YCASP1
NAIP

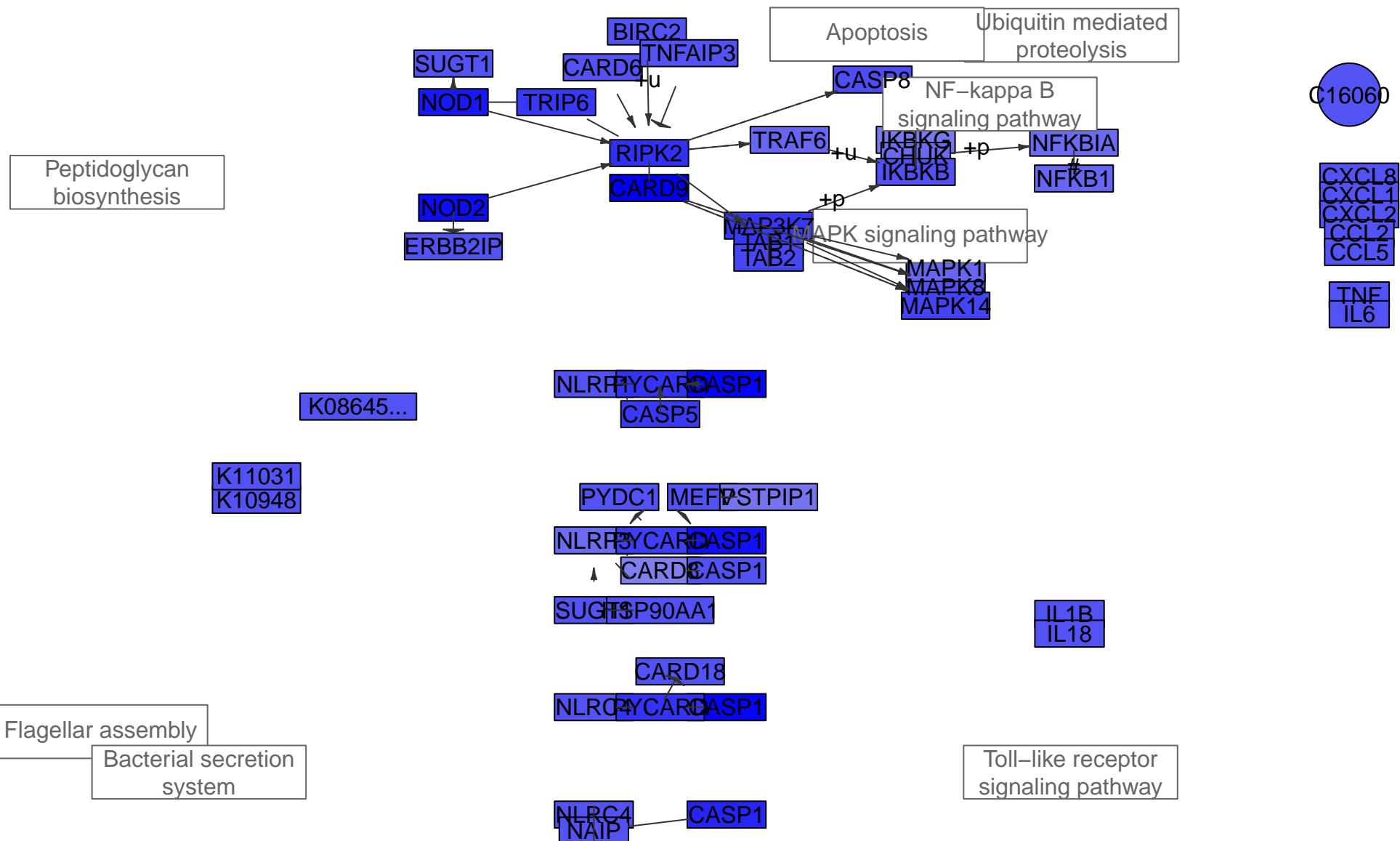
NOD-like receptor
signaling pathway
MPI-206



NOD-like receptor
signaling pathway
MPI-207

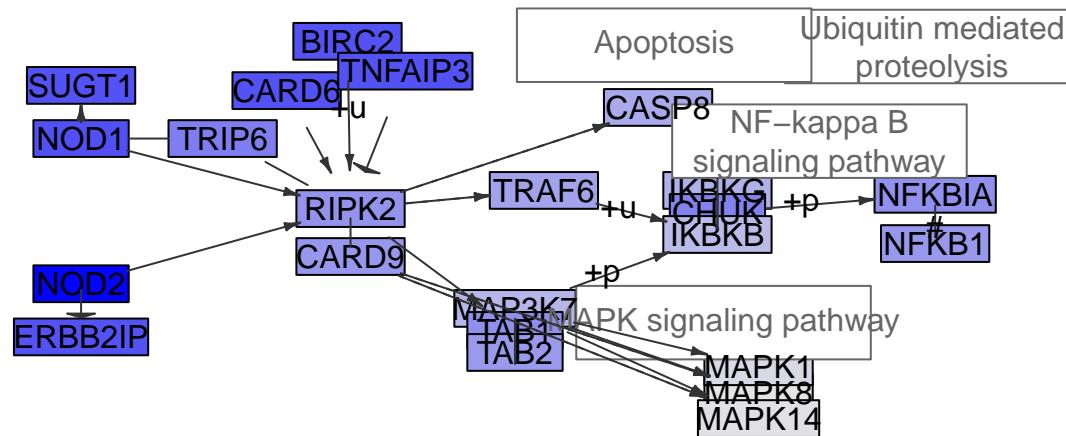


NOD-like receptor
signaling pathway
MPI-208



NOD-like receptor
signaling pathway
MPI-209

Peptidoglycan
biosynthesis



C16060
CXCL8
CXCL1
CXCL2
CCL2
CCL5
TNF
IL6

K08645...

NLRP3YCARDASP1
CASP5

K11031
K10948

PYDC1 MEFV STPIP1
NLRP3YCARDASP1
CARD8CASP1

Flagellar assembly
Bacterial secretion system

SUGT1 SP90AA1

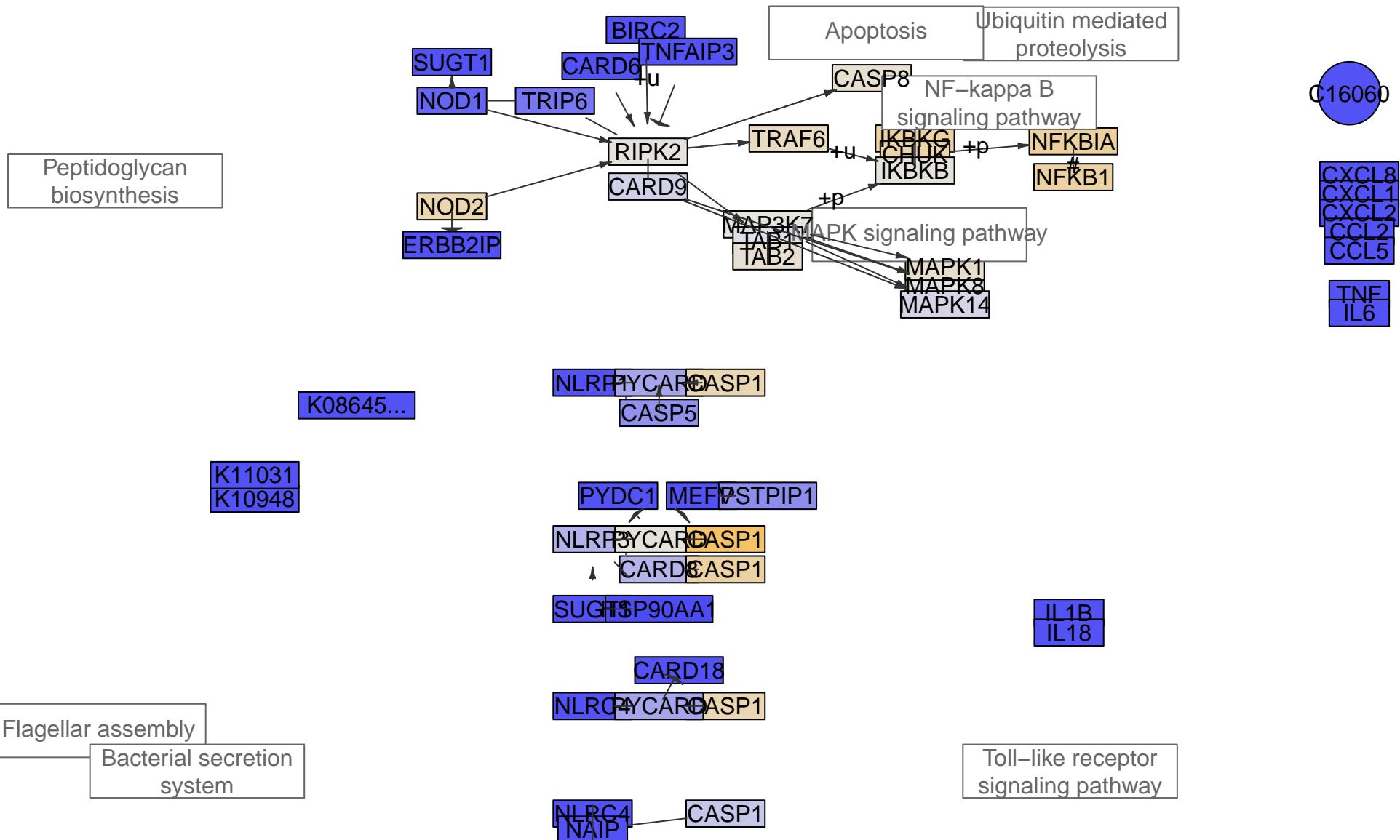
IL1B
IL18

CARD18
NLRP3YCARDASP1

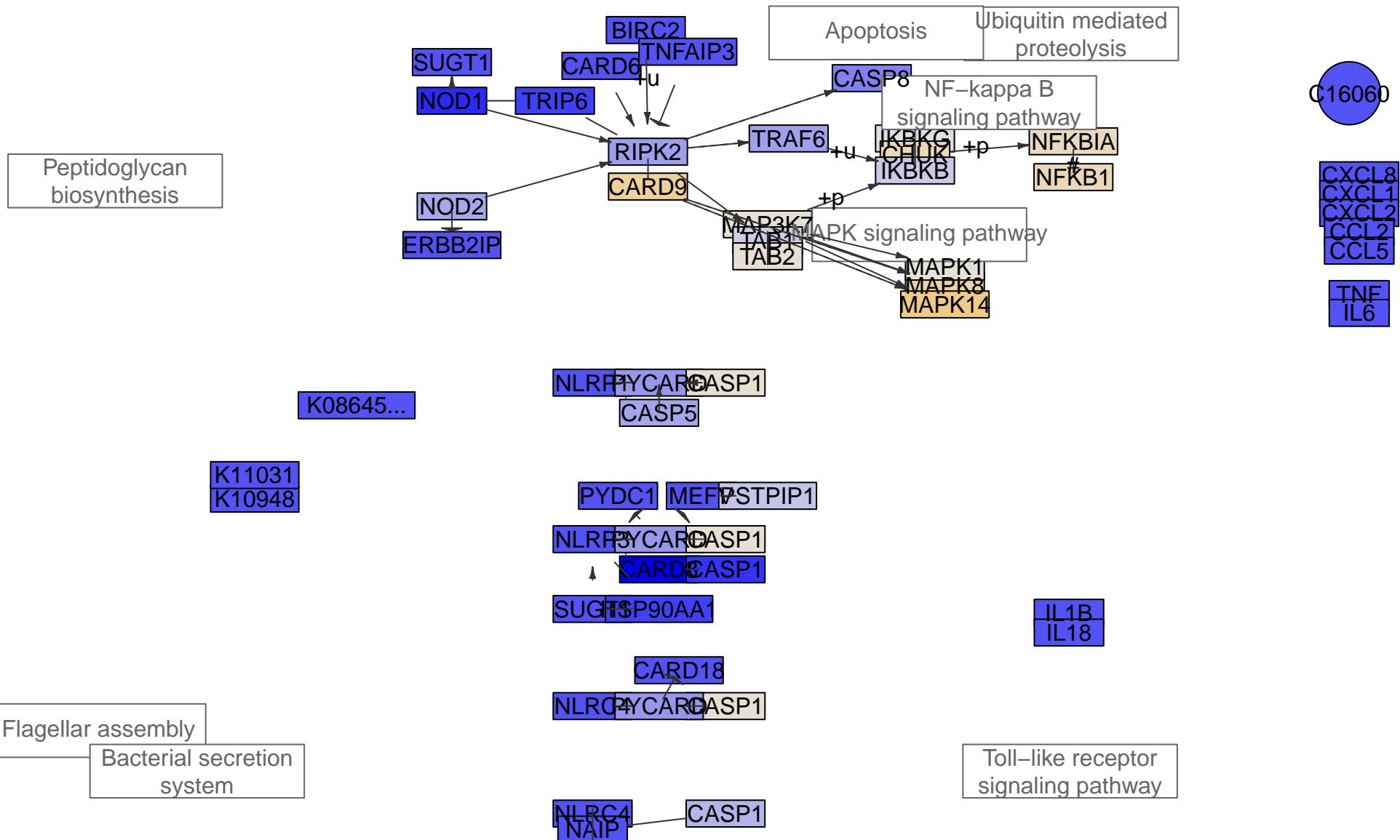
Toll-like receptor
signaling pathway

NLRP4 NAIP
CASP1

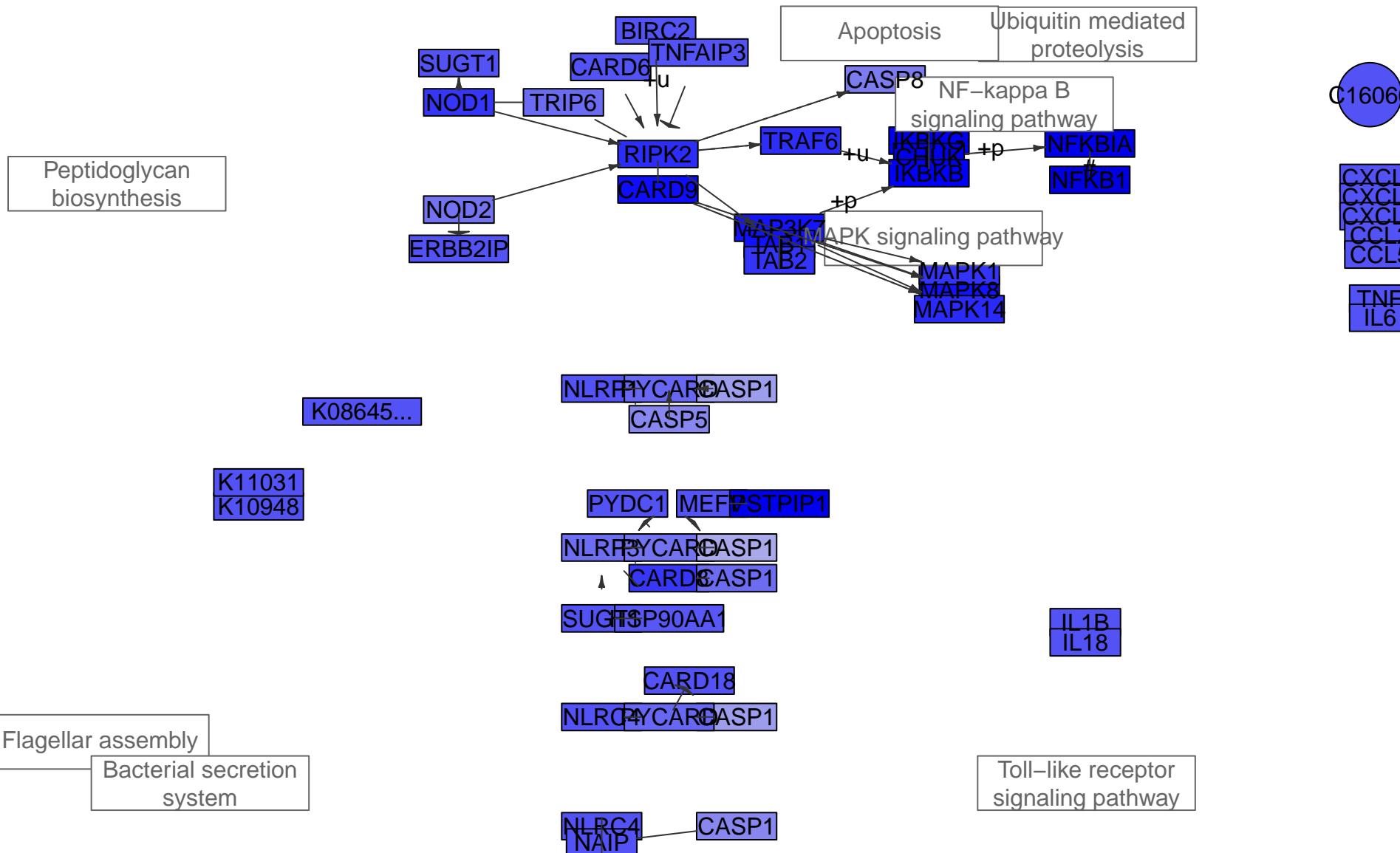
NOD-like receptor
signaling pathway
MPI-210



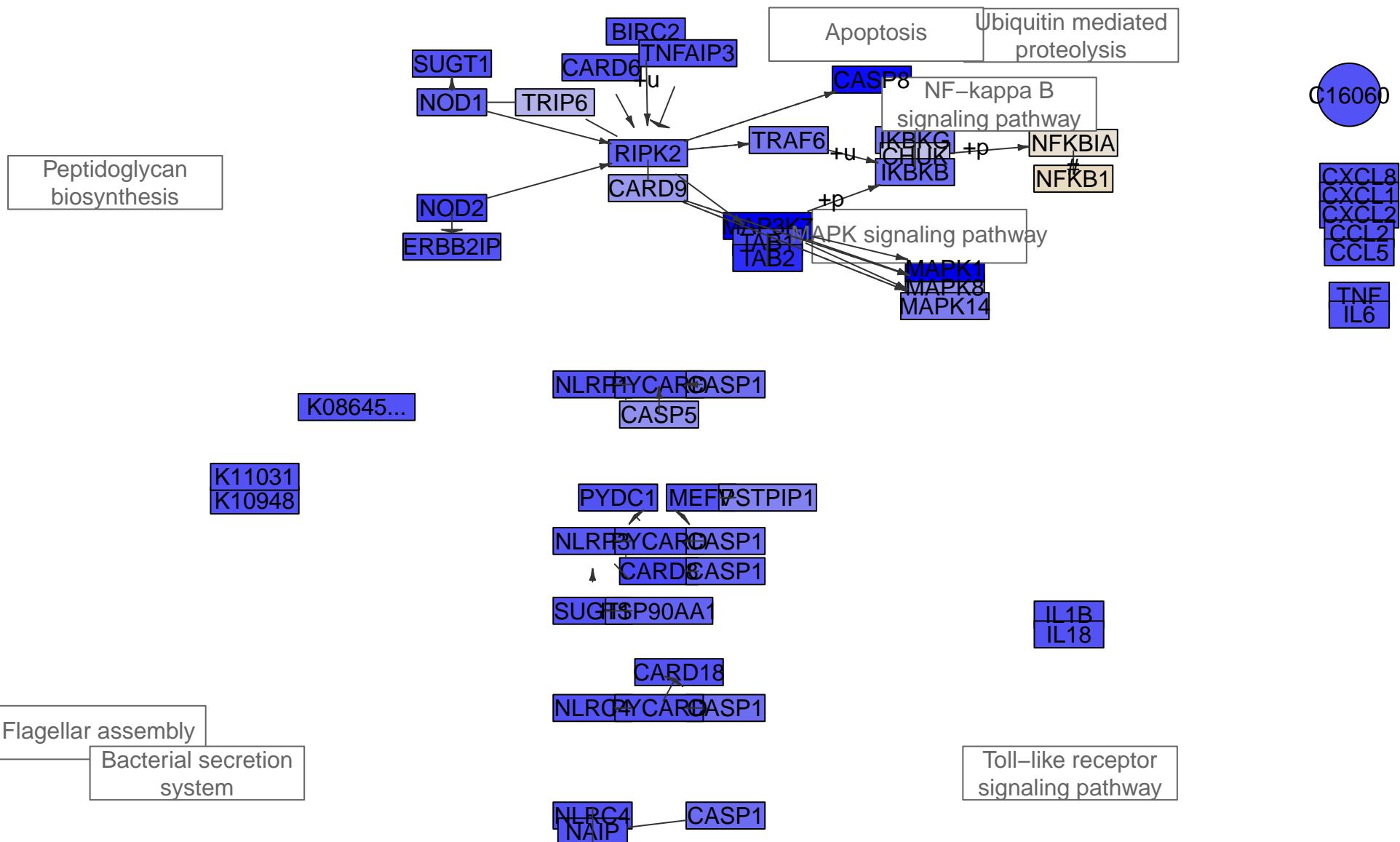
NOD-like receptor
signaling pathway
MPI-212



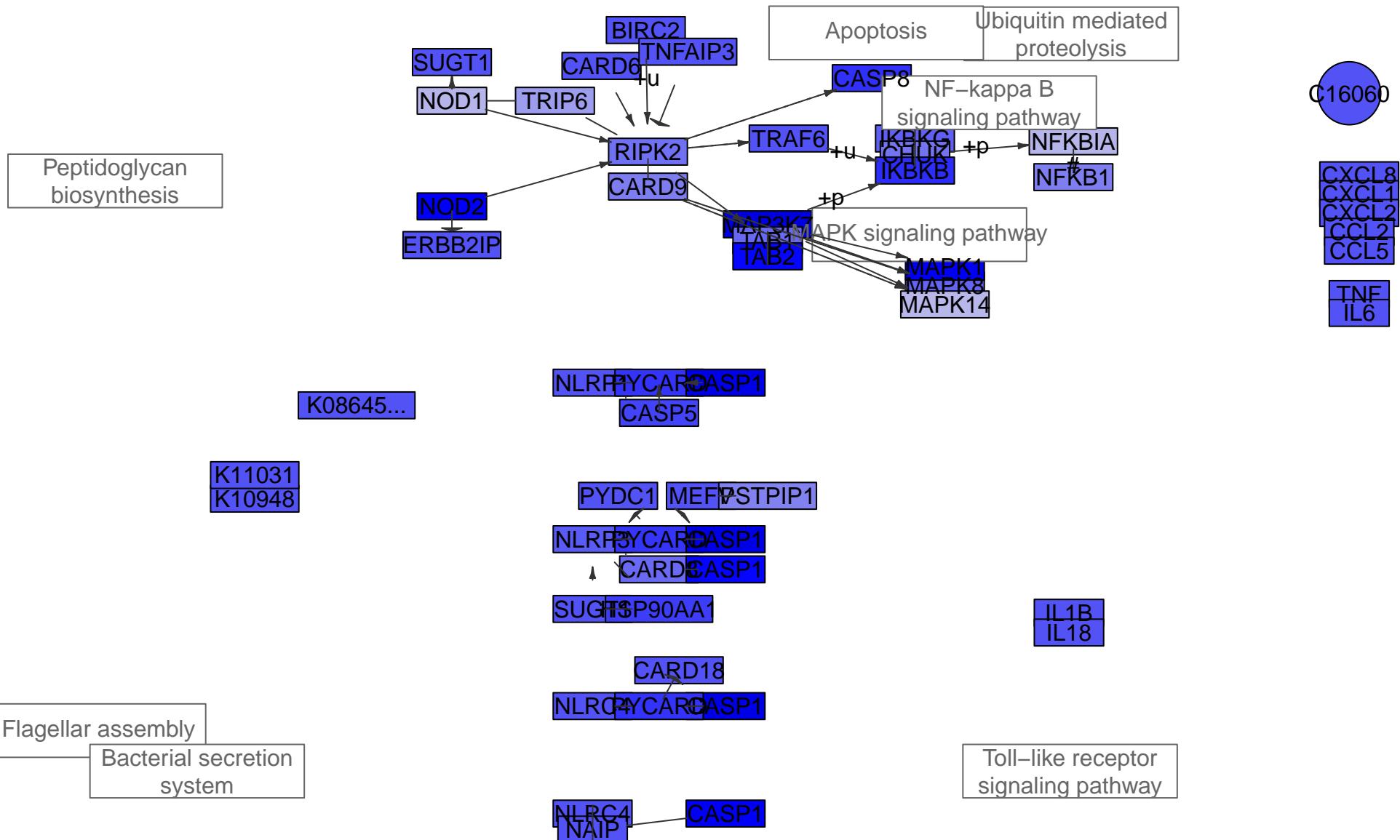
NOD-like receptor
signaling pathway
MPI-213



NOD-like receptor
signaling pathway
MPI-215

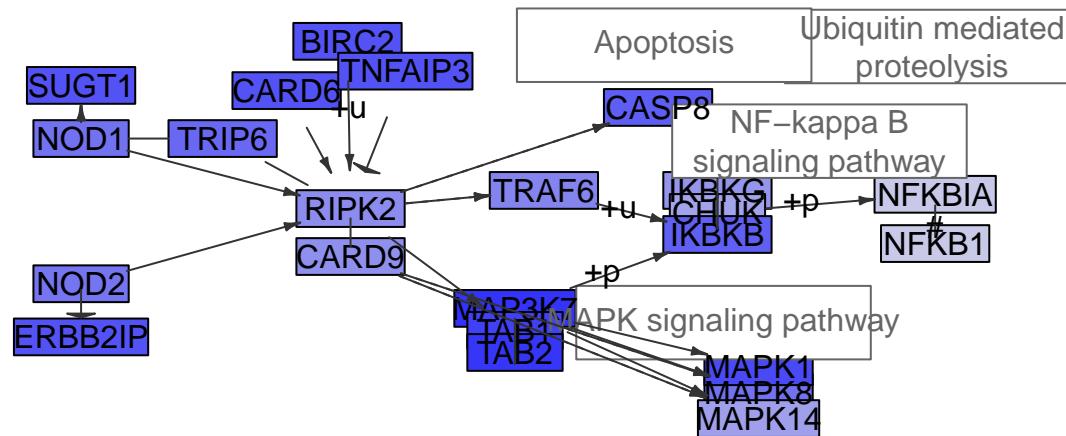


NOD-like receptor
signaling pathway
MPI-219



NOD-like receptor
signaling pathway
MPI-221

Peptidoglycan
biosynthesis



C16060

CXCL8
CXCL1
CXCL2
CCL2
CCL5
TNF
IL6

K08645...

NLRP3YCARD8CASP1
CASP5

K11031
K10948

PYDC1 MEFV PSTPIP1
NLRP3YCARD8CASP1
CARD8CASP1

Flagellar assembly
Bacterial secretion system

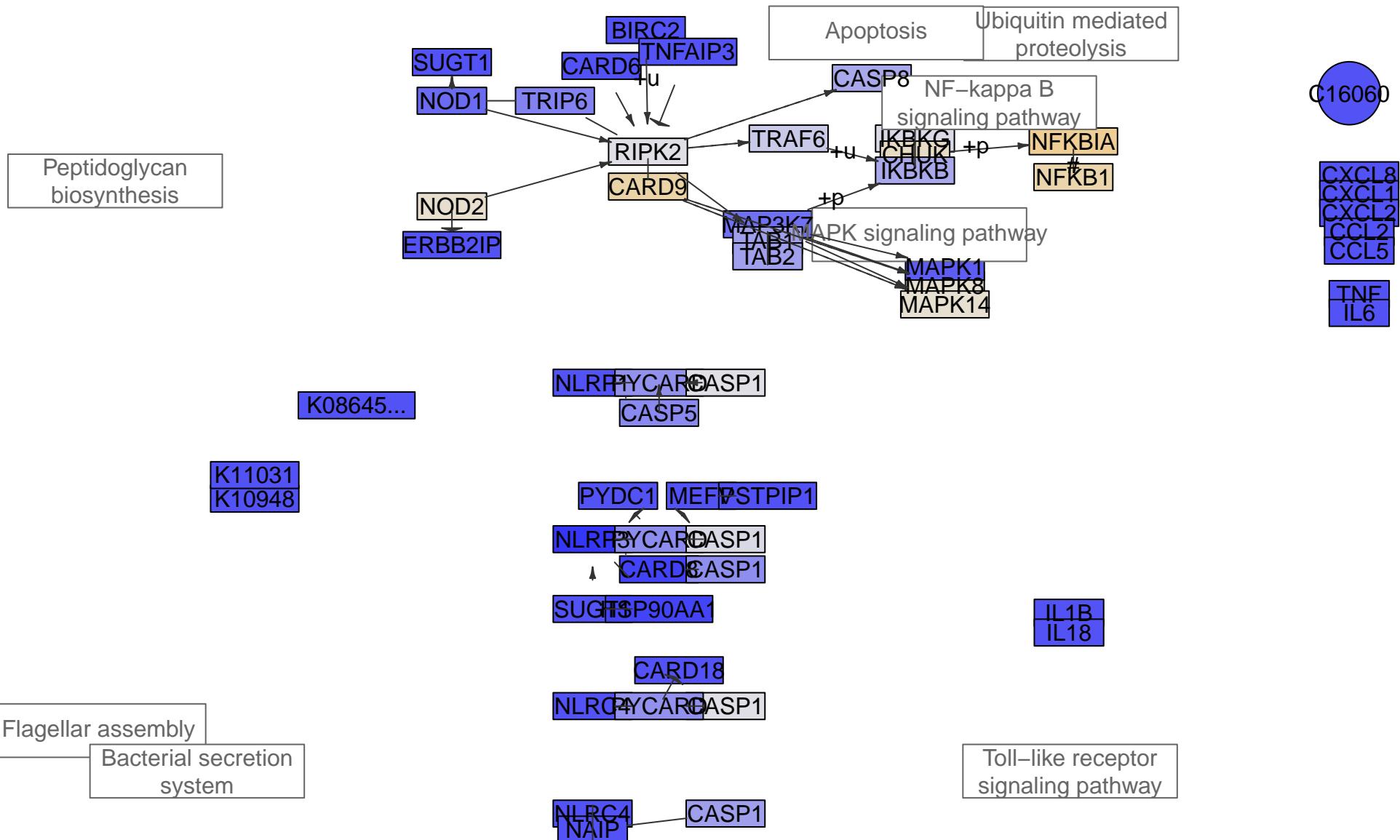
IL1B
IL18

SUGT1 SP90AA1
CARD18
NLRP4YCARD8CASP1

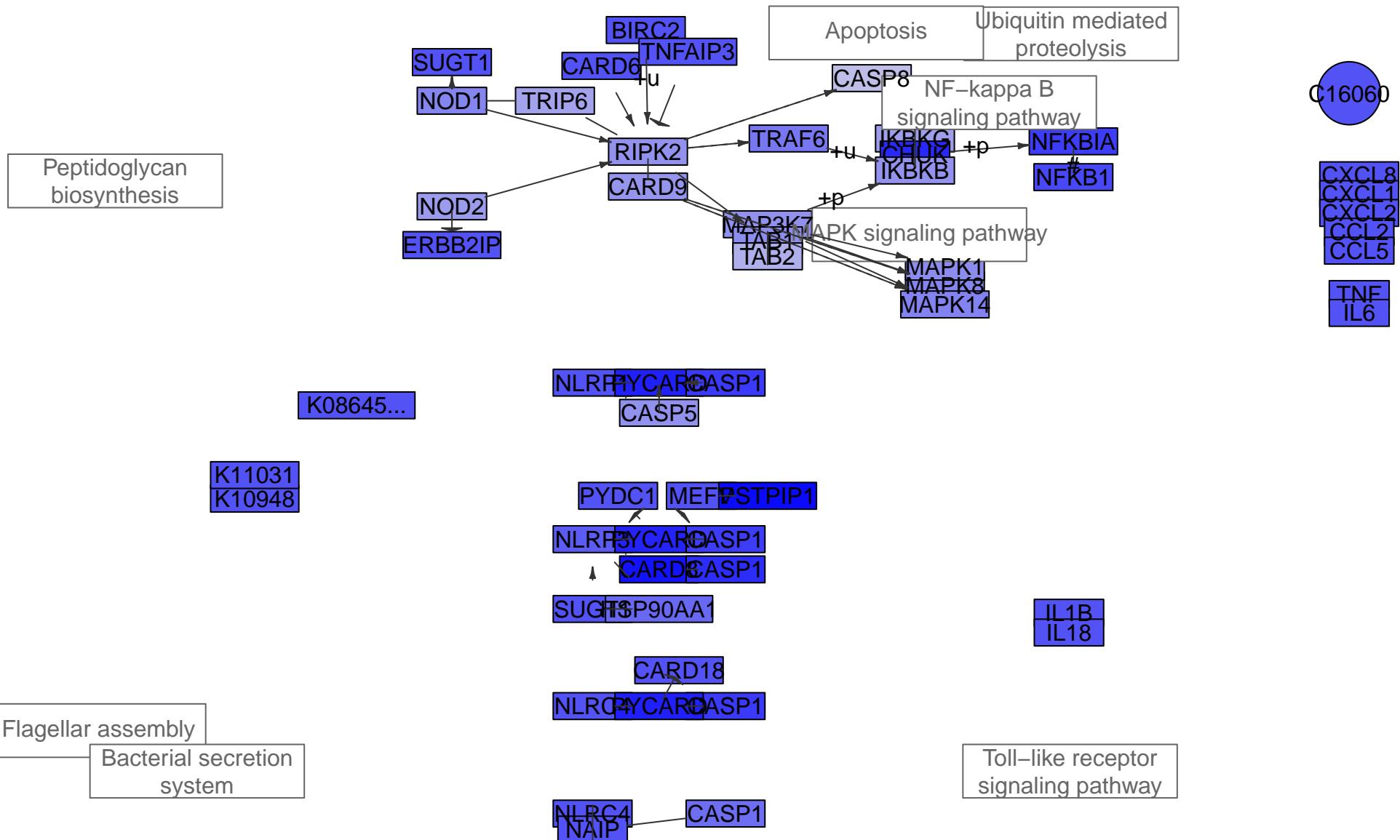
Toll-like receptor
signaling pathway

NLRP4 NAIP
CASP1

NOD-like receptor signaling pathway MPI-223a

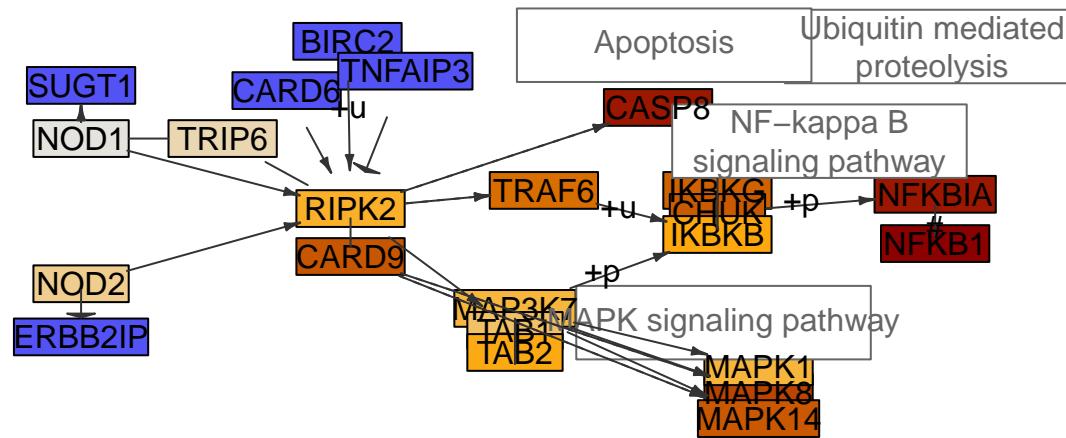


NOD-like receptor
signaling pathway
MPI-224



NOD-like receptor
signaling pathway
MPI-226

Peptidoglycan
biosynthesis



C16060
CXCL8
CXCL1
CXCL2
CCL2
CCL5
TNF
IL6

K08645...

K11031
K10948

NLRP1YCARCASP1
CASP5

PYDC1 MEFV STPIP1
NLRP3YCARCASP1
CARD8CASP1

SUGT1SP90AA1

IL1B
IL18

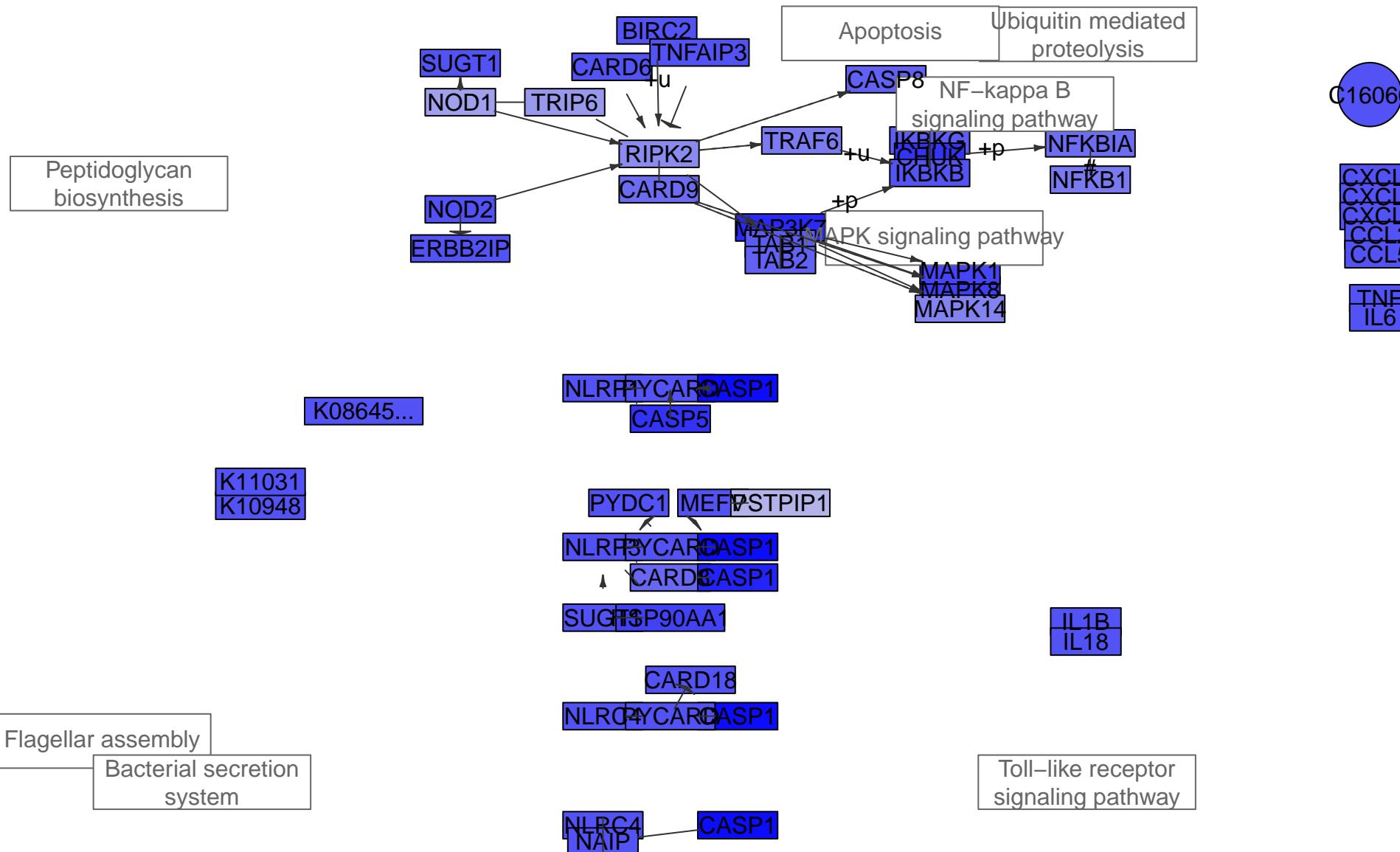
CARD18
NLRP4YCARCASP1

Toll-like receptor
signaling pathway

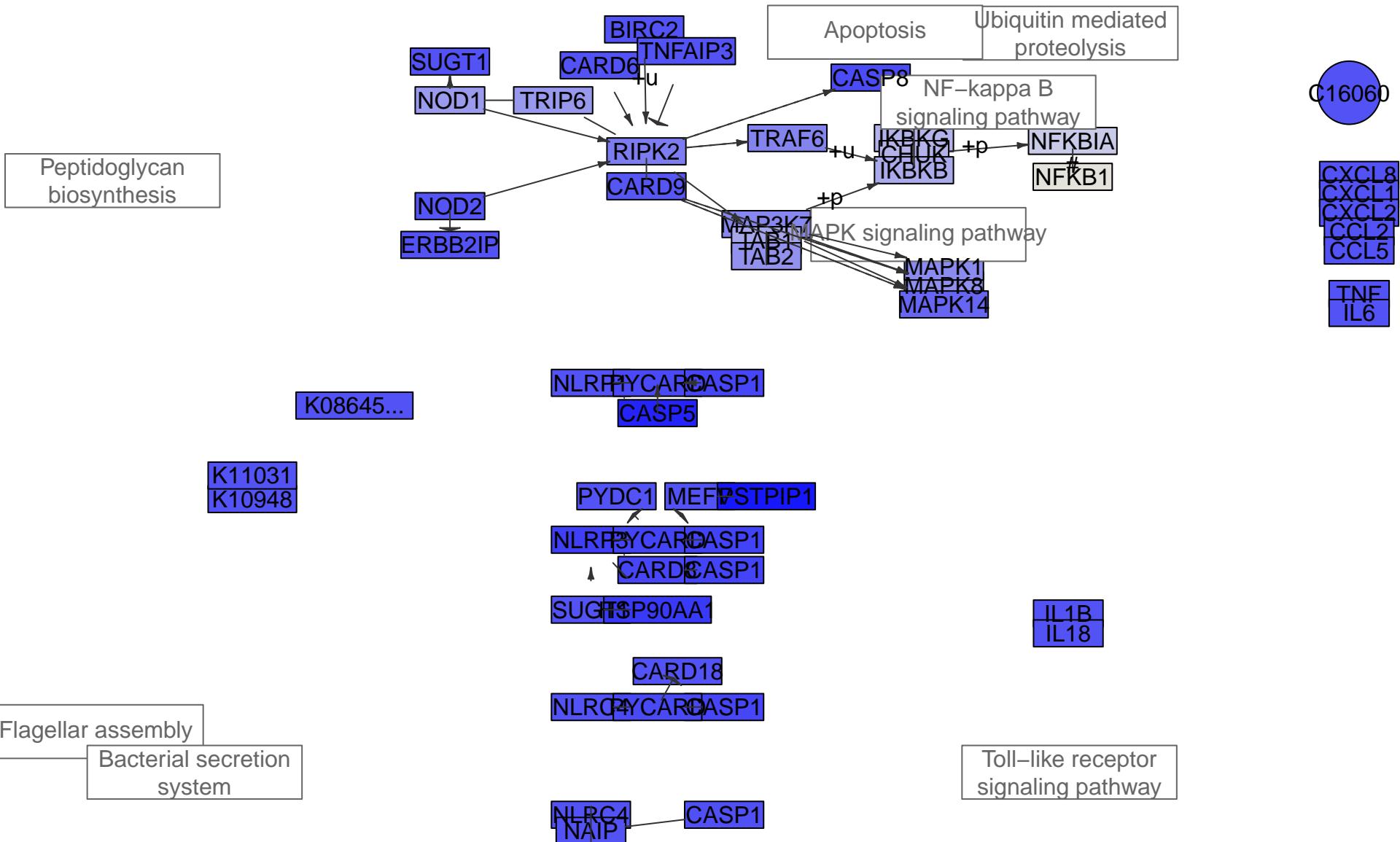
NLRP4 NAIP
CASP1

Flagellar assembly
Bacterial secretion
system

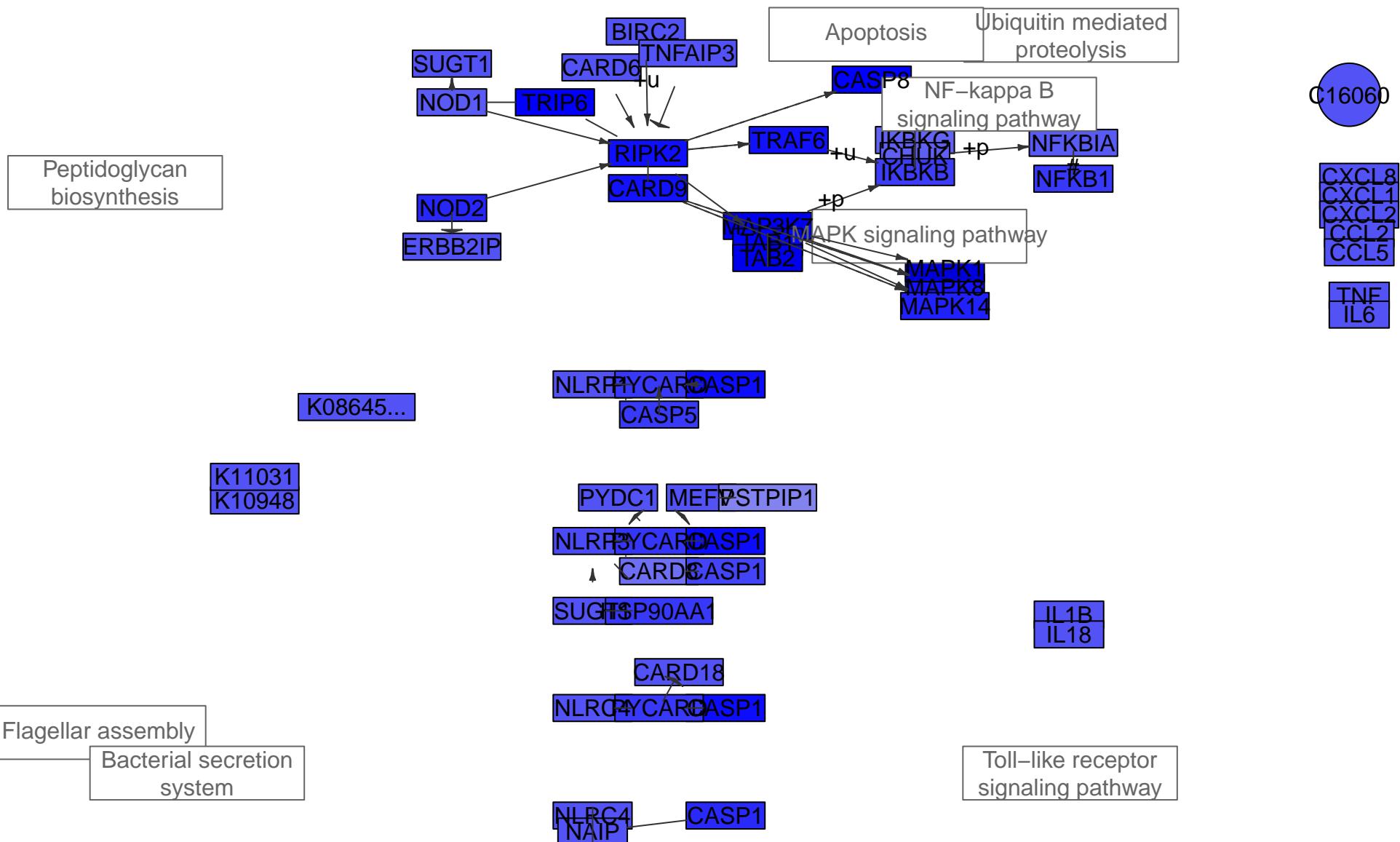
NOD-like receptor
signaling pathway
MPI-227



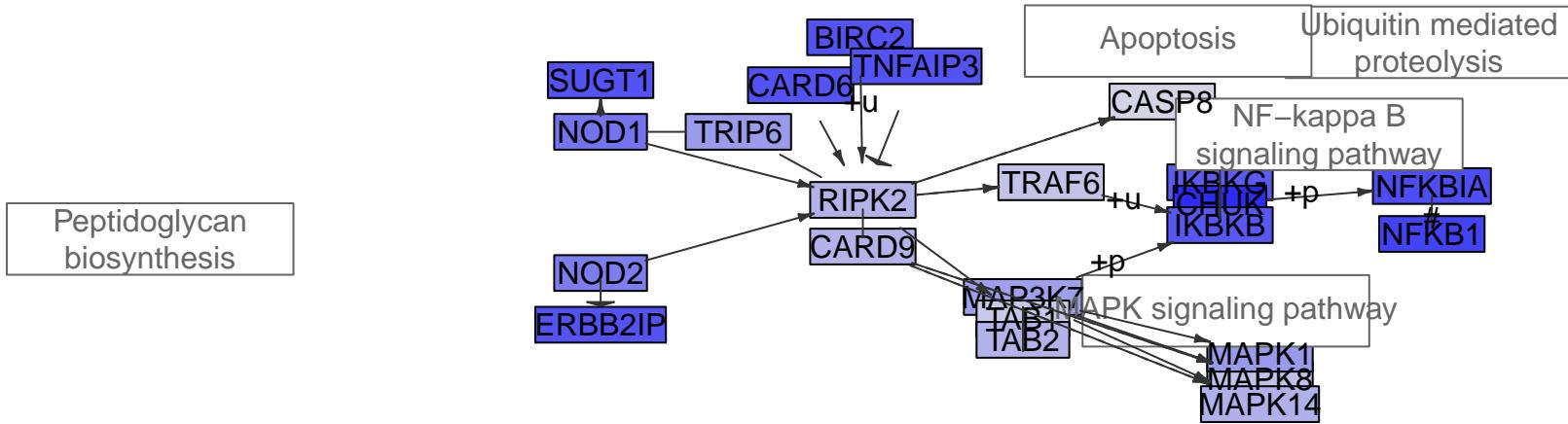
NOD-like receptor
signaling pathway
MPI-228



NOD-like receptor
signaling pathway
MPI-229



NOD-like receptor
signaling pathway
MPI-230



C16060

**CXCL8
CXCL1
CXCL2
CCL2
CCL5

TNF
IL6**

K08645...

NLRP1/CASP1
CASP5

K11031
K10948

The diagram illustrates the PYDC1-PIP1 complex interacting with NLRP3 and caspase-1. PYDC1 and MEFV are shown at the top, each with a downward arrow pointing to NLRP3. NLRP3 is shown with a red box around its N-terminal domain and a blue box around its C-terminal domain. Below NLRP3, caspase-1 is shown with a red box around its pro-domain and a blue box around its matured caspase-1 domain.

IL1B
IL18

Flagellar assembly

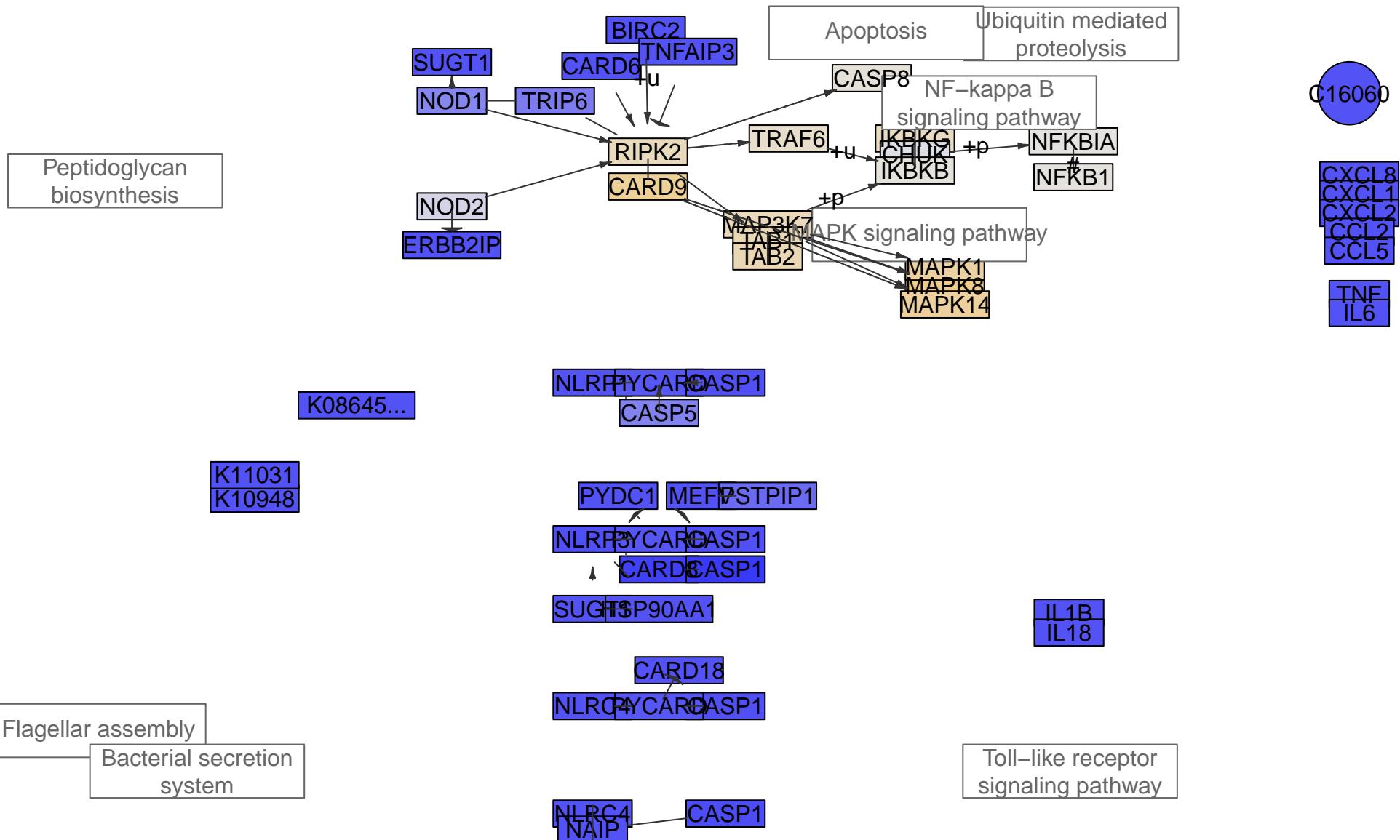
Bacterial secretion system

Toll-like receptor signaling pathway

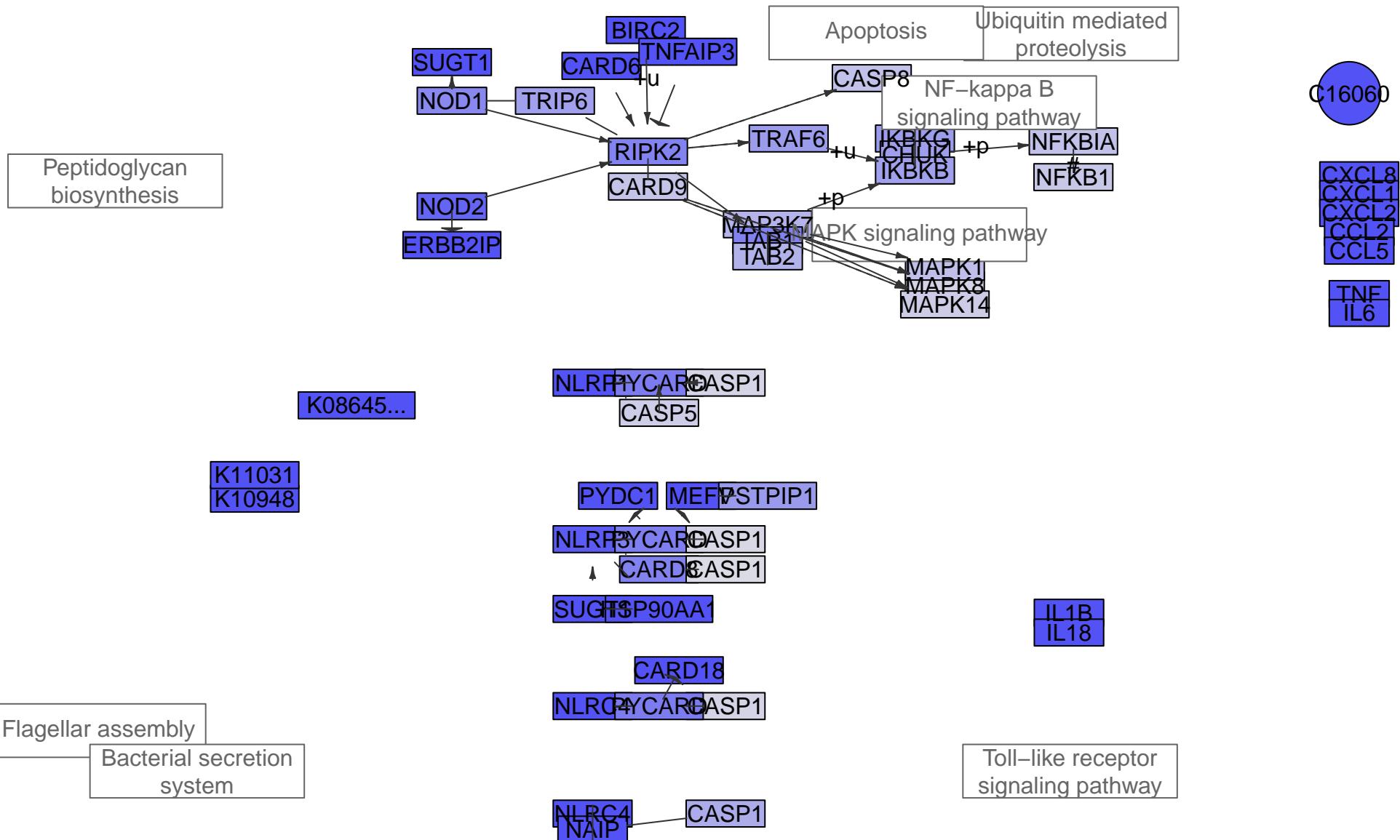
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graph LR
    NLRC4[NLRC4<br/>NAIP] --- CASP1[CASP1]
  
```

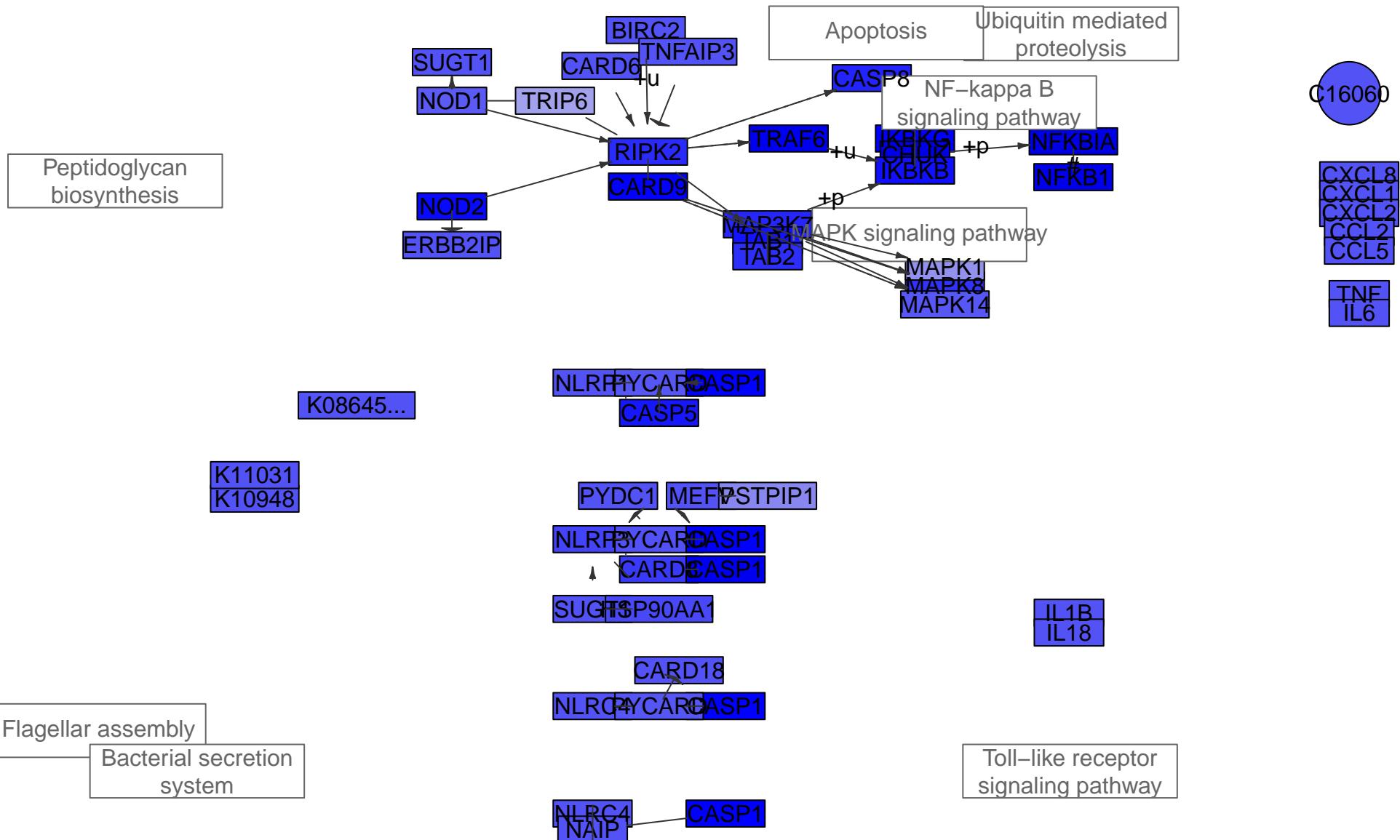
NOD-like receptor
signaling pathway
MPI-231



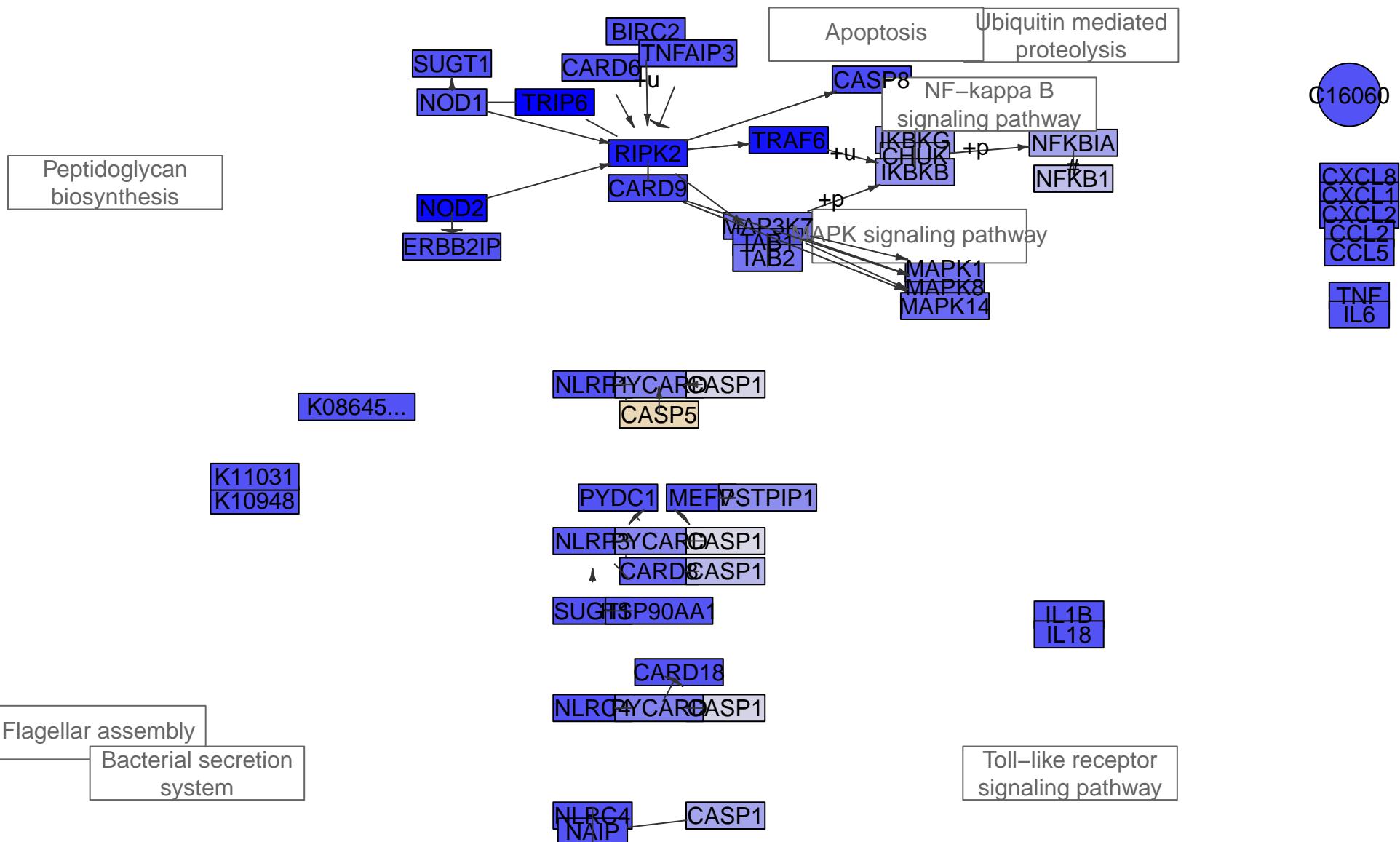
NOD-like receptor
signaling pathway
MPI-232



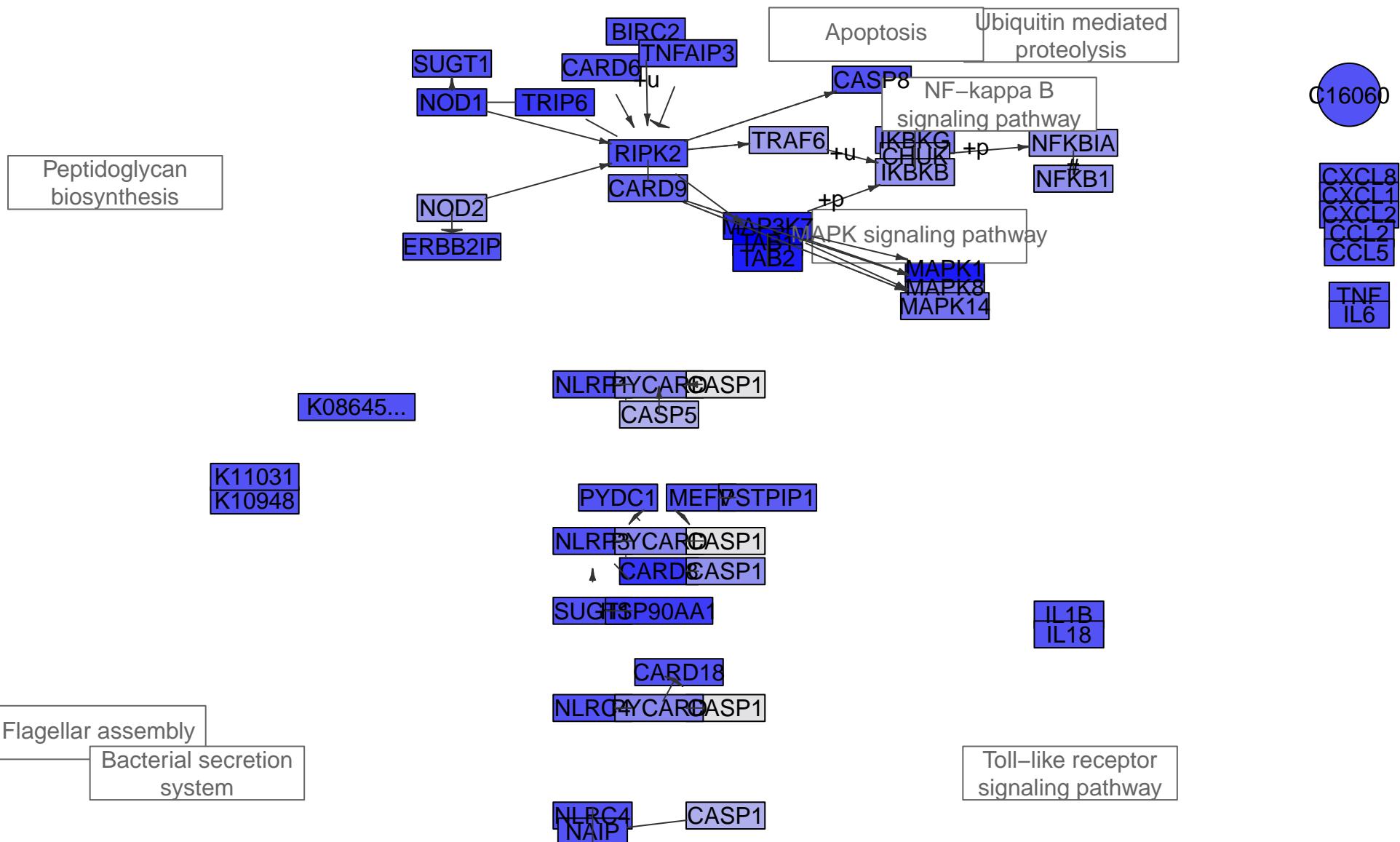
NOD-like receptor
signaling pathway
MPI-233



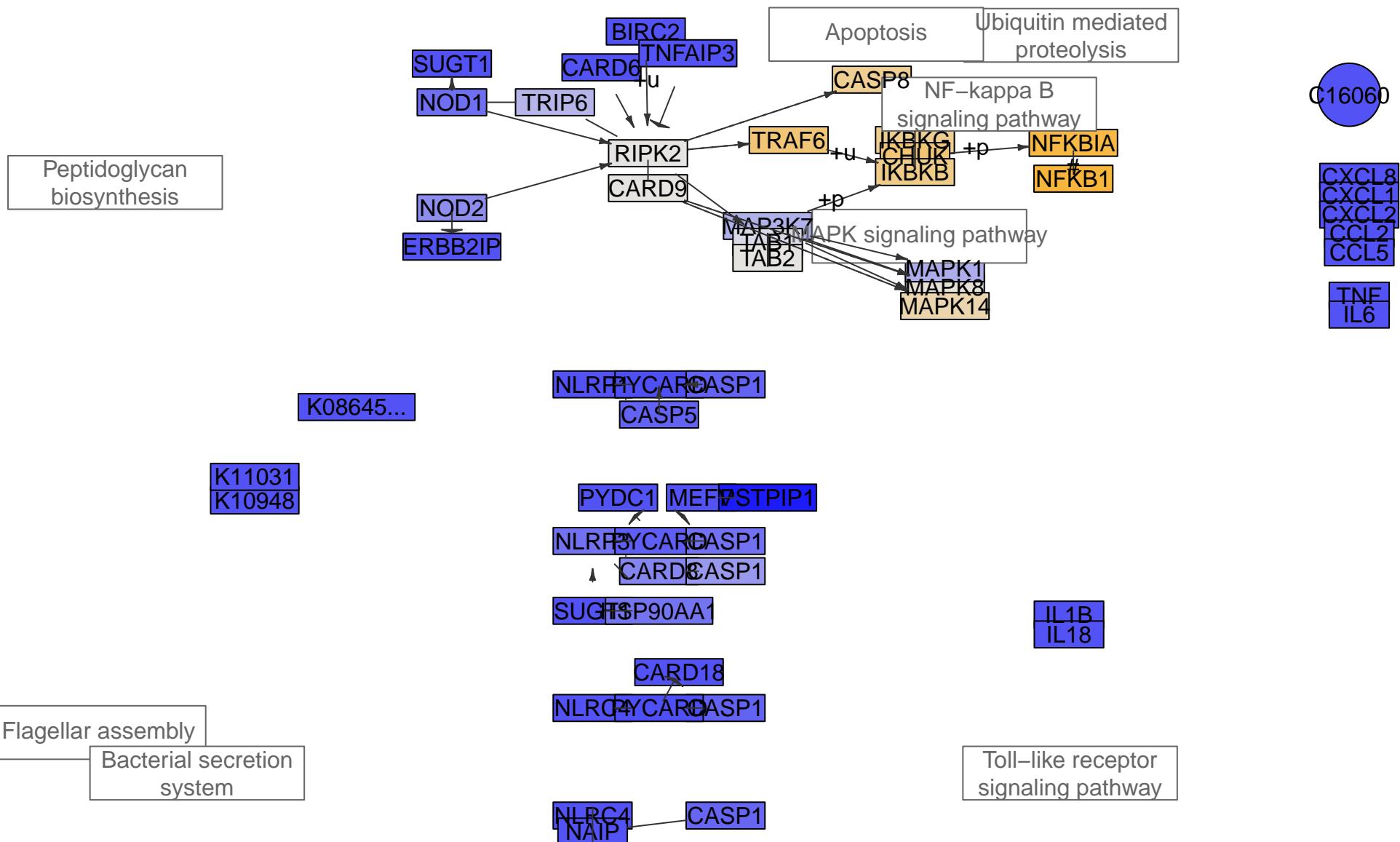
NOD-like receptor
signaling pathway
MPI-234



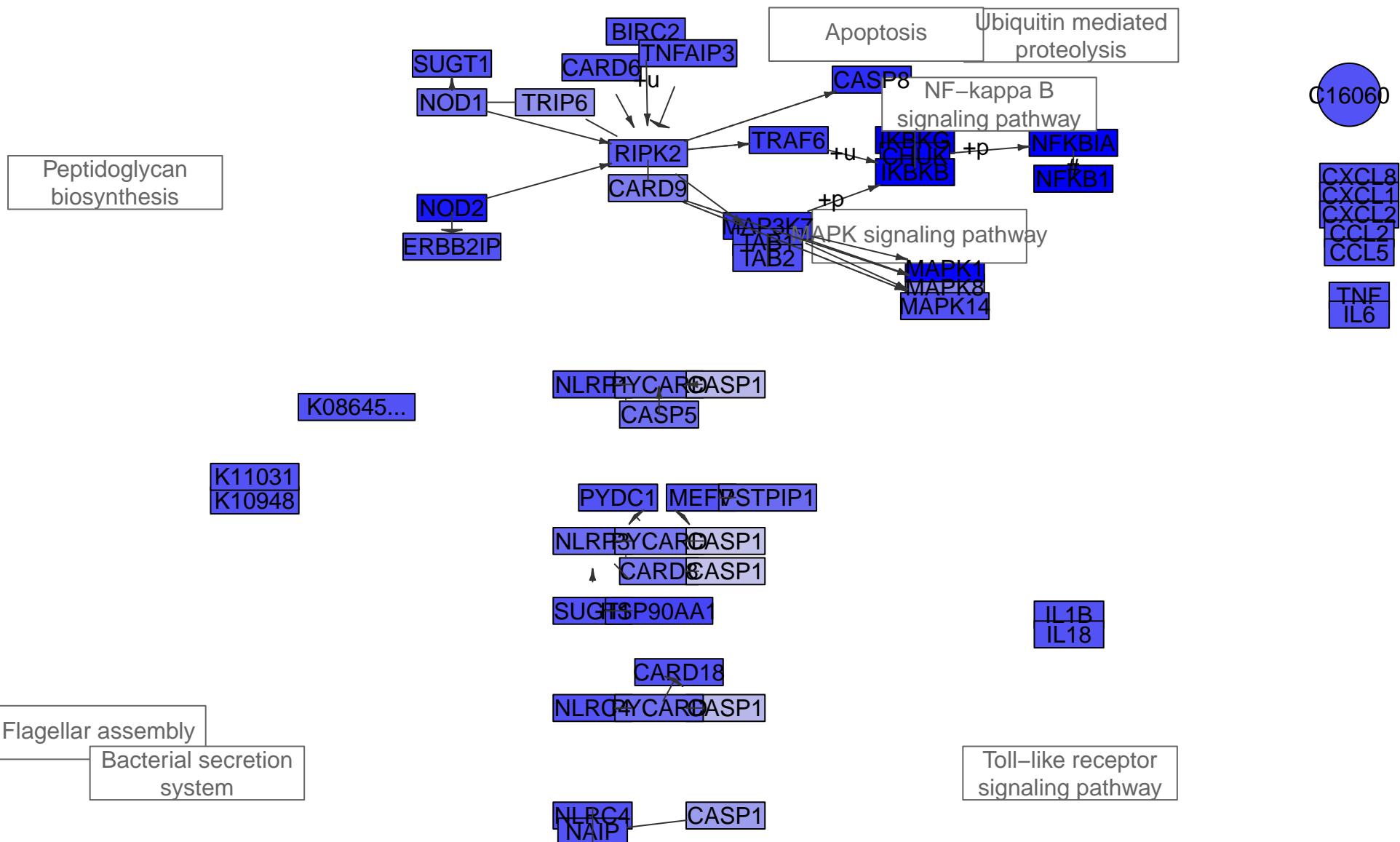
NOD-like receptor
signaling pathway
MPI-235



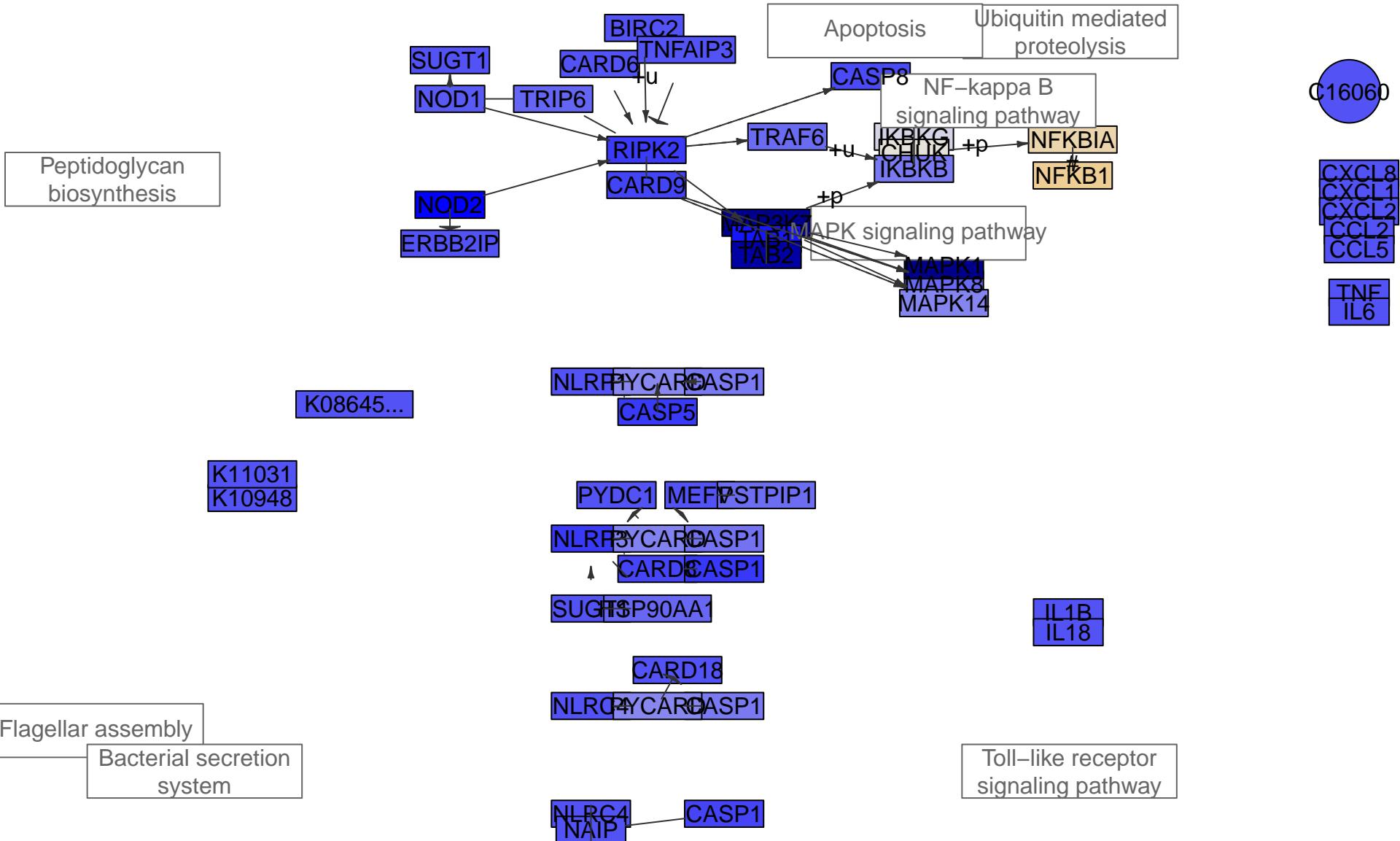
NOD-like receptor
signaling pathway
MPI-236



NOD-like receptor
signaling pathway
MPI-237

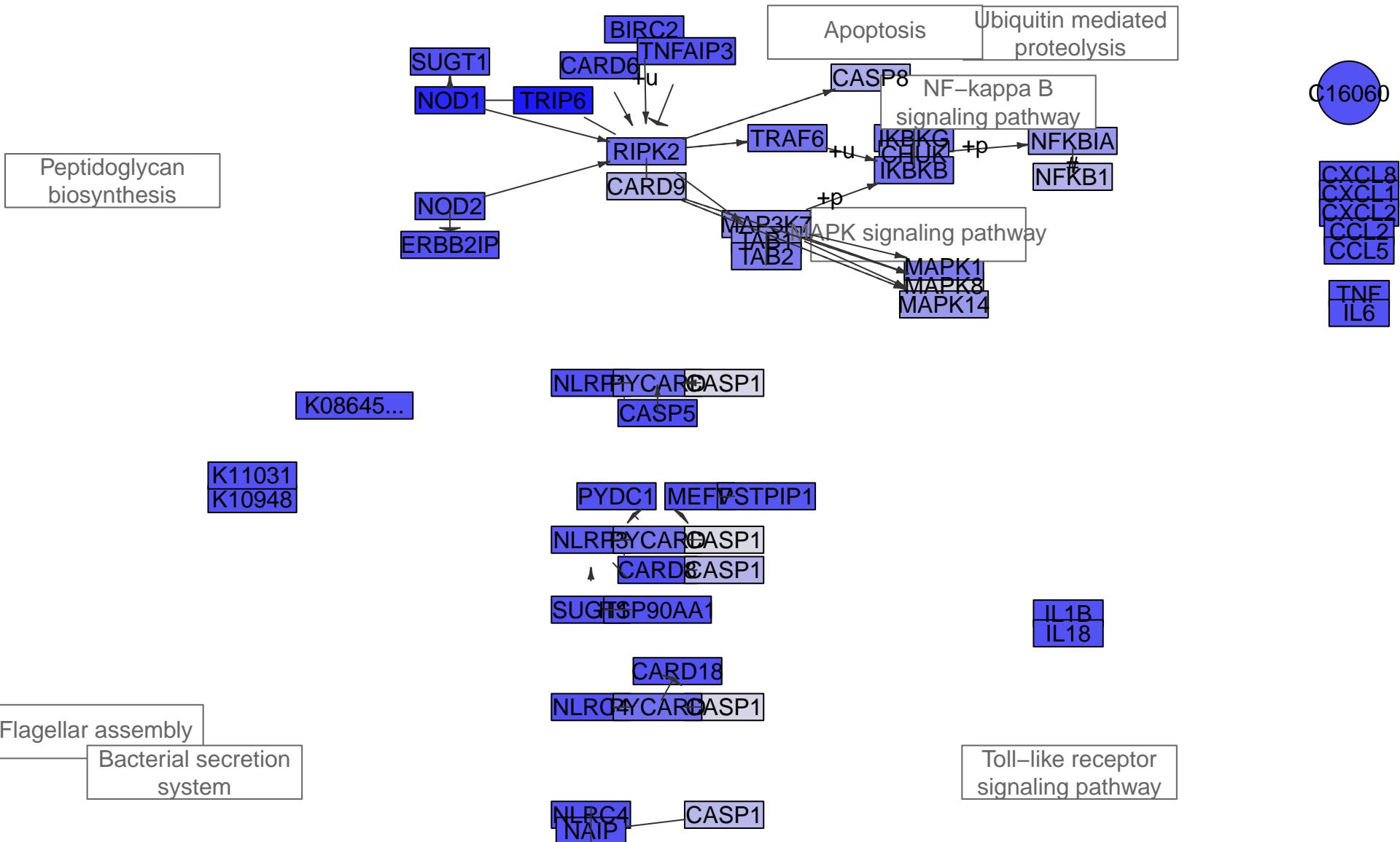


NOD-like receptor
signaling pathway
MPI-239

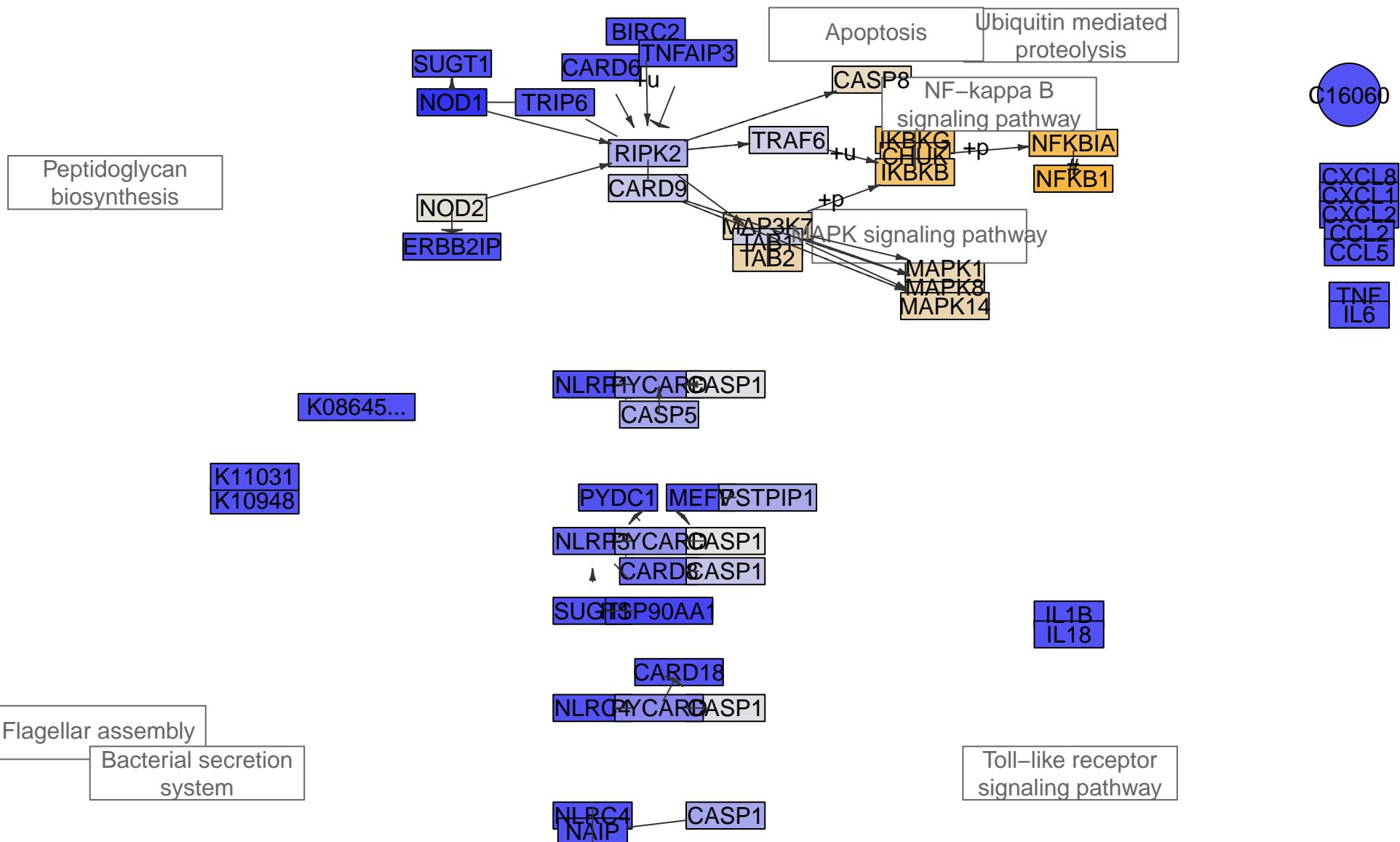


NOD-like receptor signaling pathway

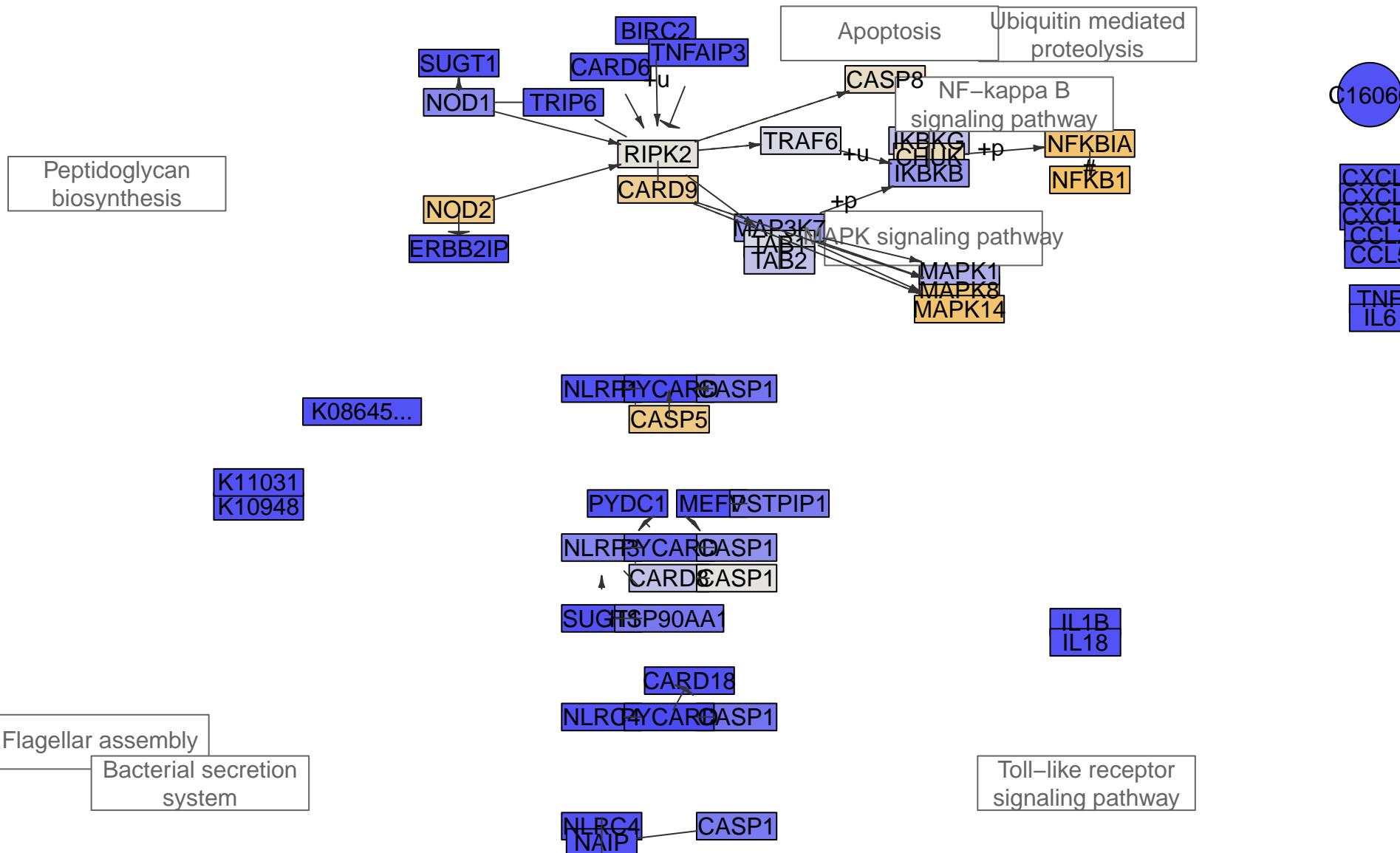
MPI-241



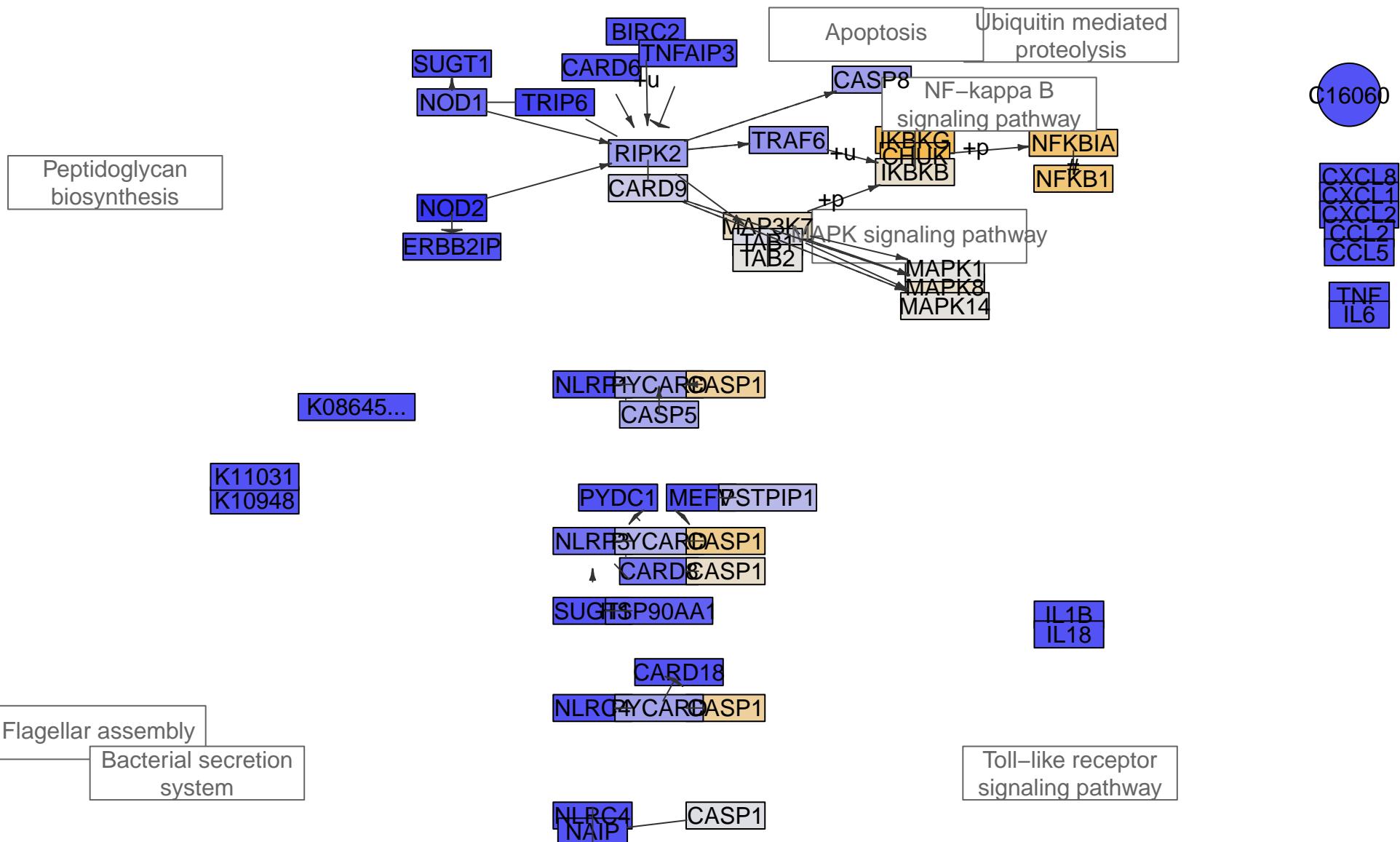
NOD-like receptor
signaling pathway
MPI-243



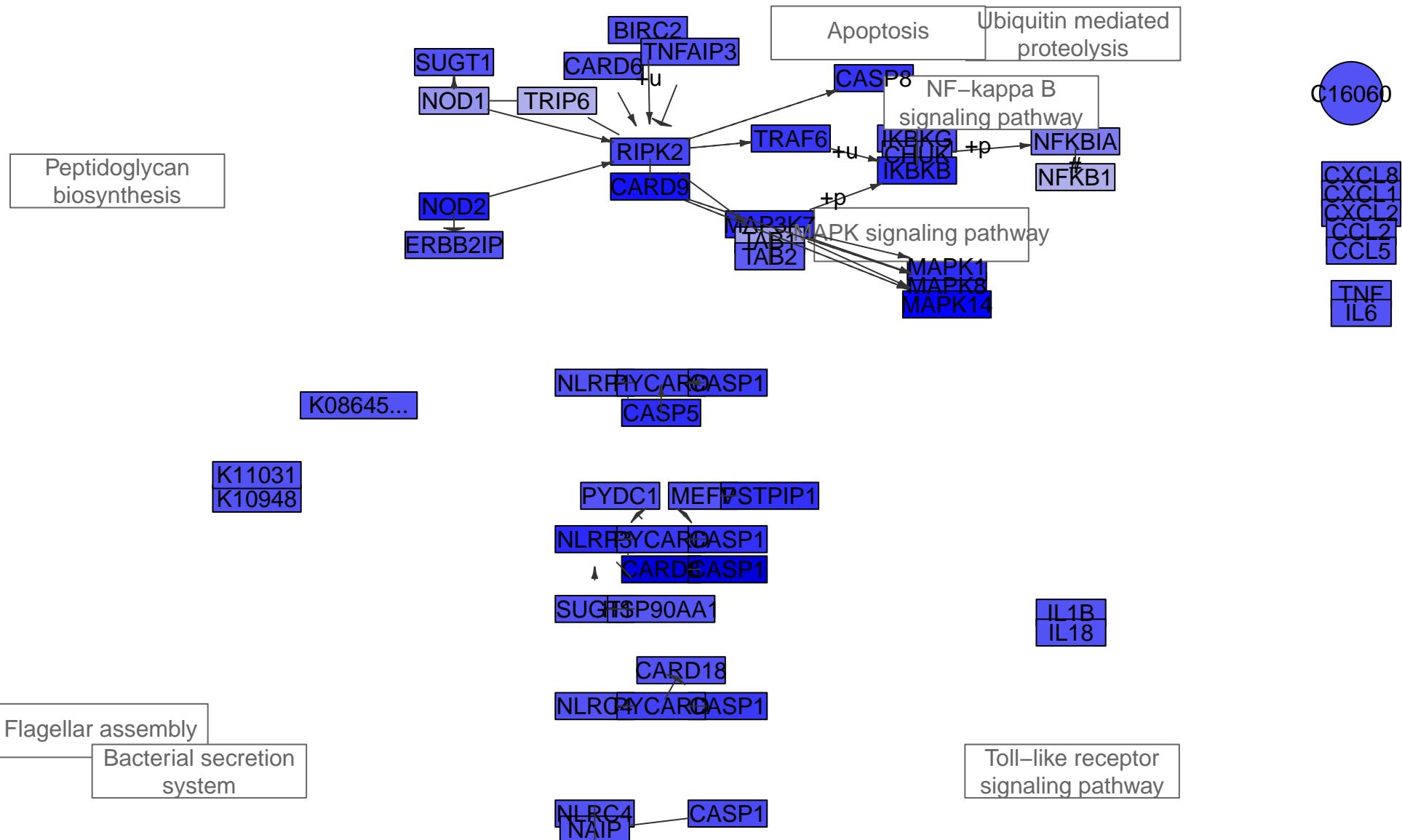
NOD-like receptor
signaling pathway
MPI-244



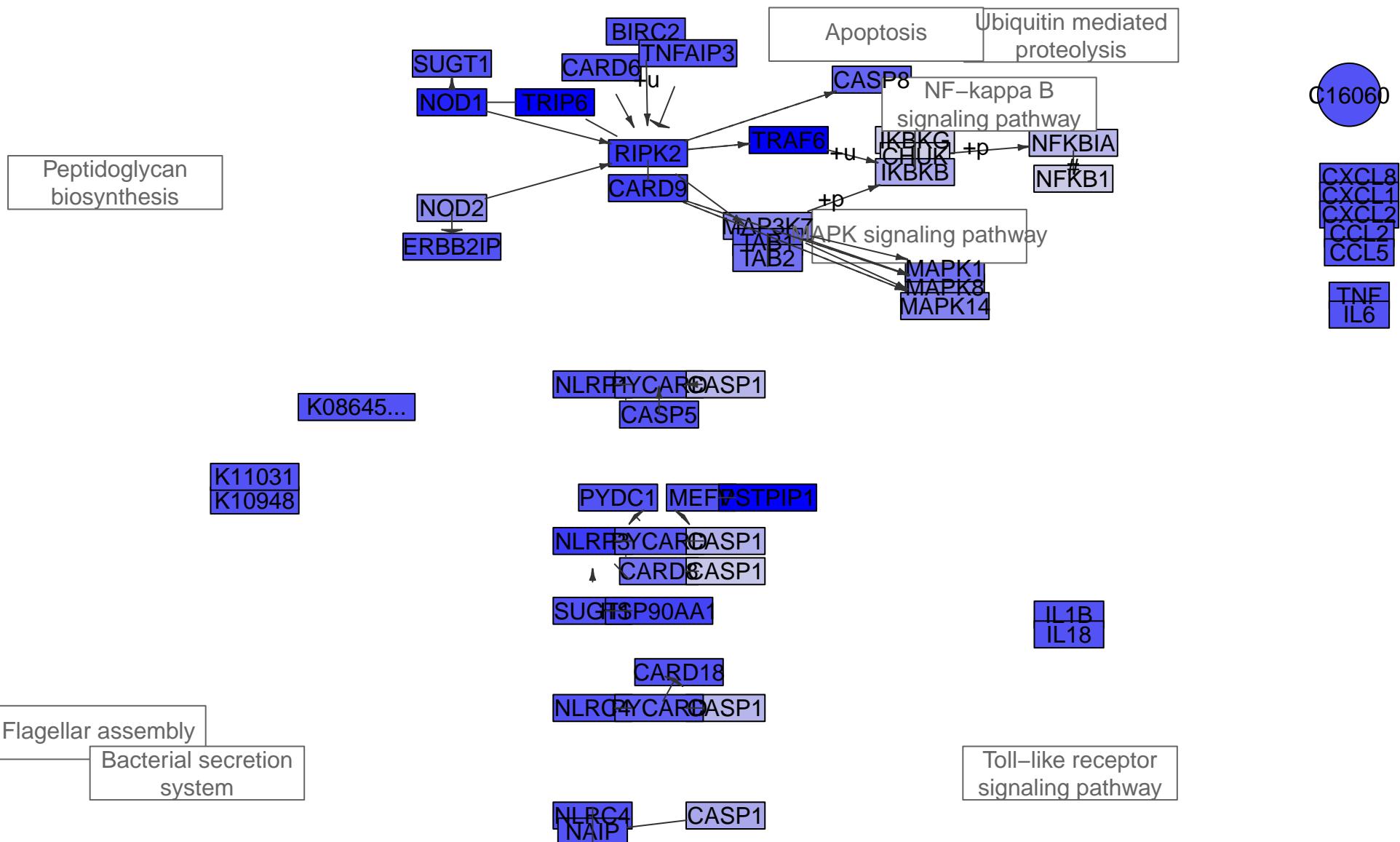
NOD-like receptor
signaling pathway
MPI-246



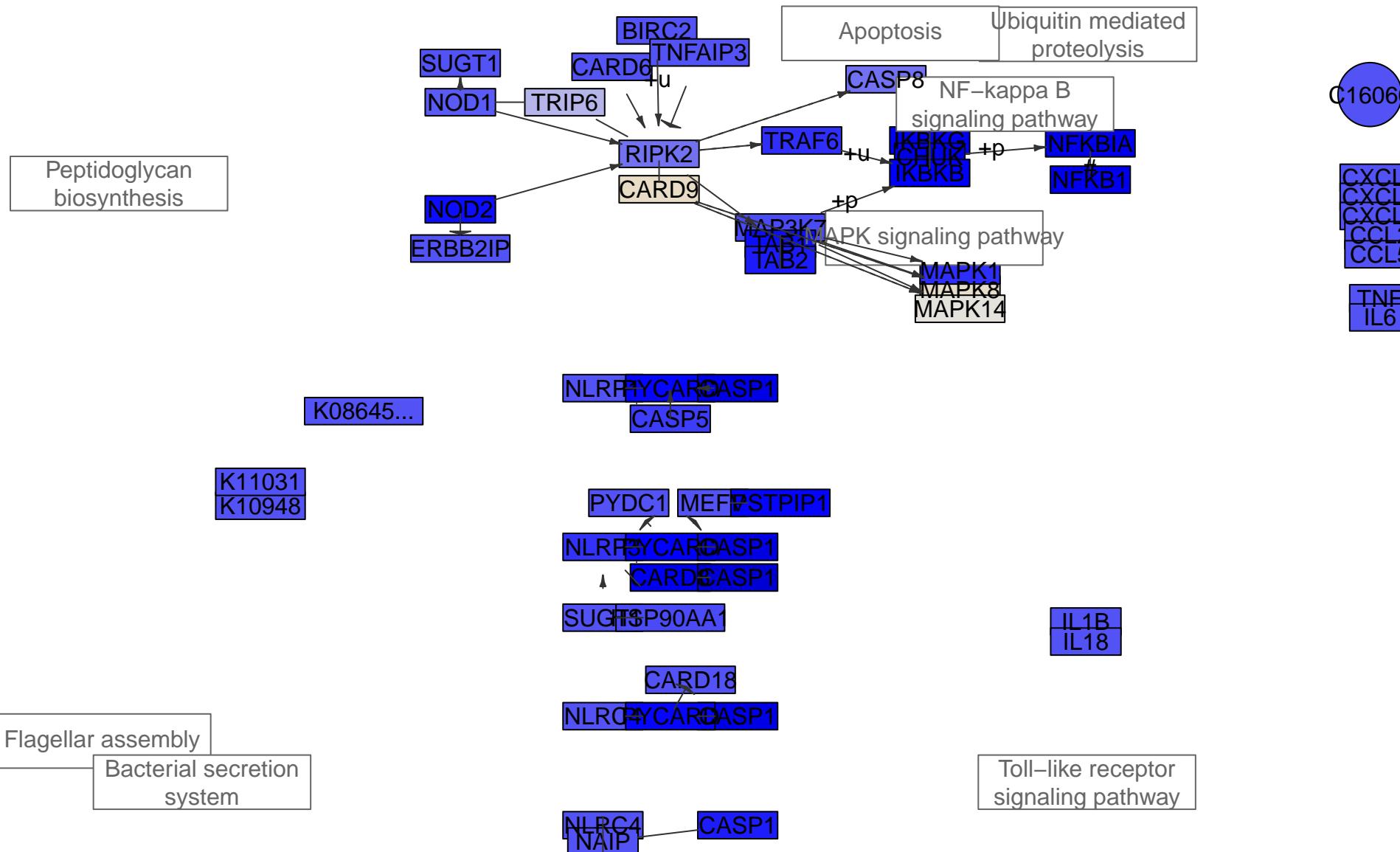
NOD-like receptor
signaling pathway
MPI-247



NOD-like receptor
signaling pathway
MPI-251



NOD-like receptor
signaling pathway
MPI-255



NOD-like receptor
signaling pathway
MPI-223b

