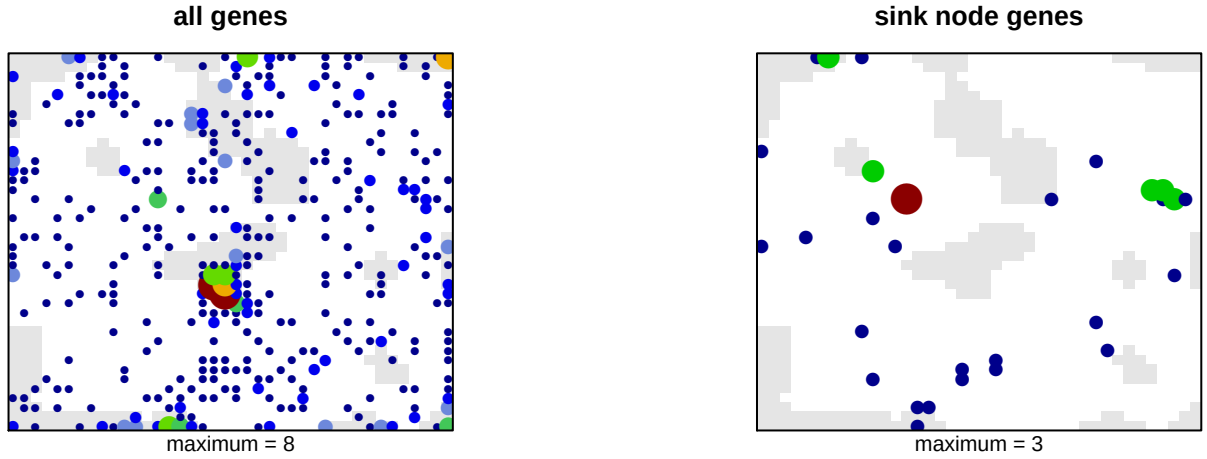
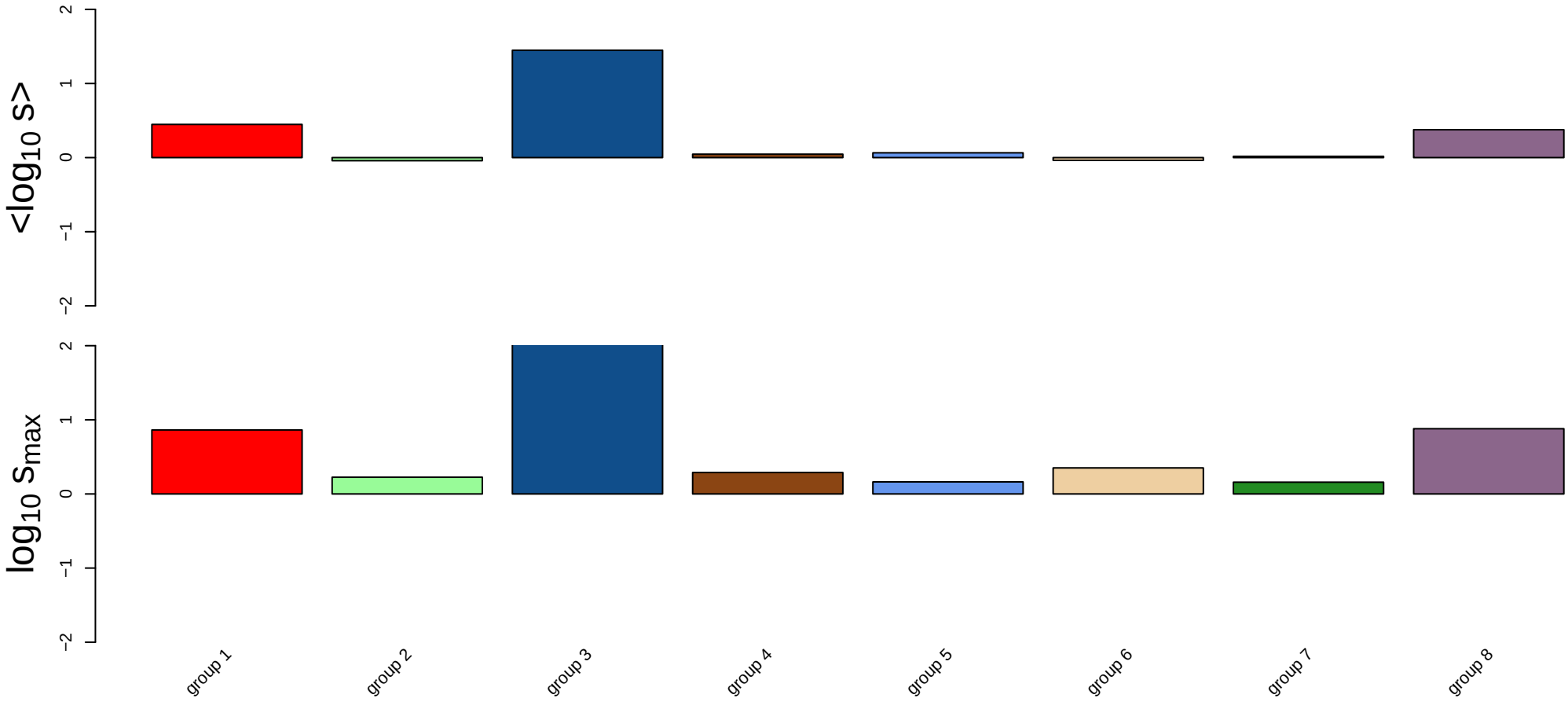
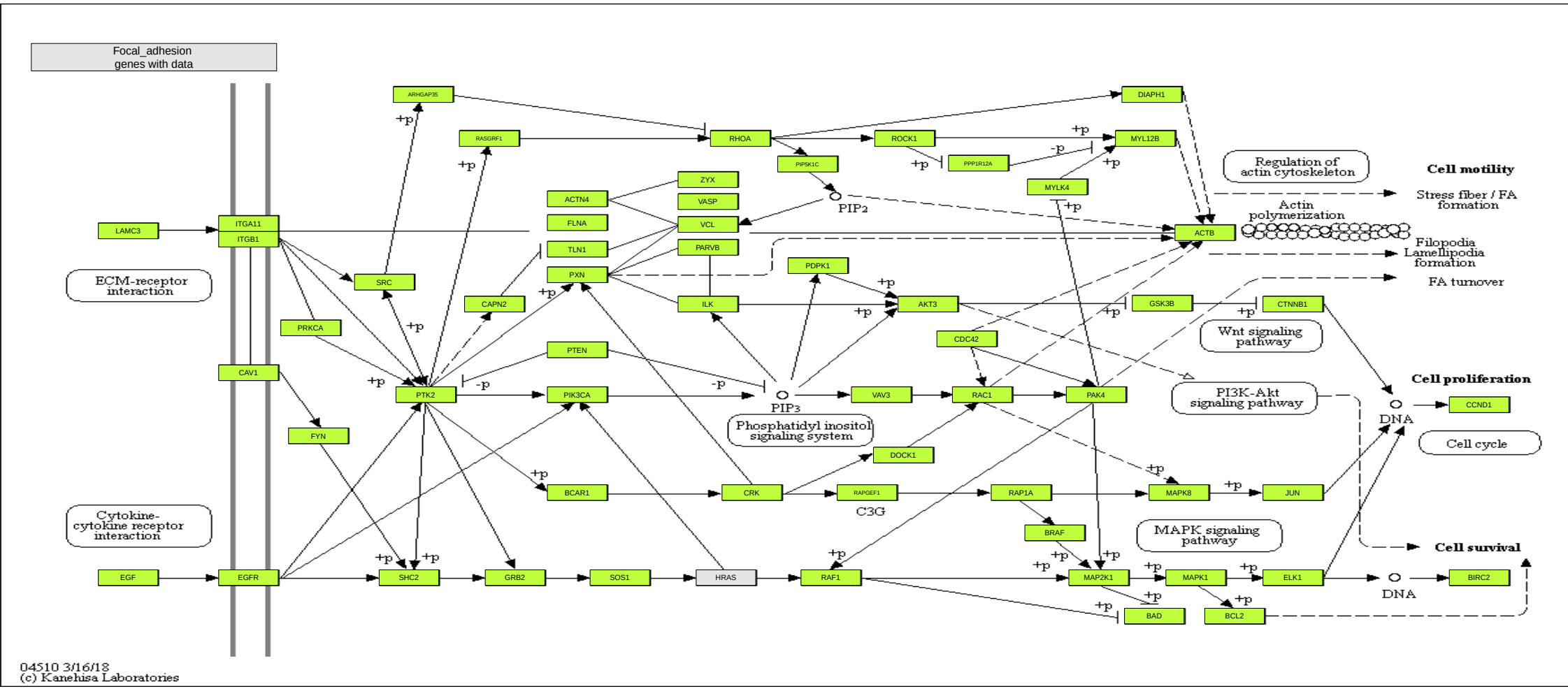
Focal adhesion






Focal_adhesion
genes with data
ARHGAP35
DIAPH1
RASGRF1
RHOA
ROCK1
MYL12B
PIP5K1C
PPP1R12A
MYLK4
Regulation of actin cytoskeleton
Cell motility
Stress fiber / FA formation
ZYX
VASP
ACTN4
FLNA
VCL
PARVB
TLN1
PXN
PIP2
Actin polymerization
ACTB
Filopodia
Lamellipodia formation
FA turnover
LAMC3
ITGA11
ITGB1
ECM-receptor interaction
SRC
CAPN2
PDPK1
ILK
AKT3
GSK3B
CTNNB1
Wnt signaling pathway
PRKCA
CDC42
PTEN
CAV1
PTK2
PIK3CA
PIP3
VAV3
RAC1
PAK4
PI3K-Akt signaling pathway
Cell proliferation
DNA
CCND1
Phosphatidyl inositol signaling system
FYN
DOCK1
Cell cycle
BCAR1
CRK
RAPGEF1
C3G
RAP1A
MAPK8
JUN
Cytokine-cytokine receptor interaction
BRAF
MAPK signaling pathway
Cell survival
EGF
EGFR
SHC2
GRB2
SOS1
HRAS
RAF1
MAP2K1
MAPK1
ELK1
DNA
BIRC2
BAD
BCL2
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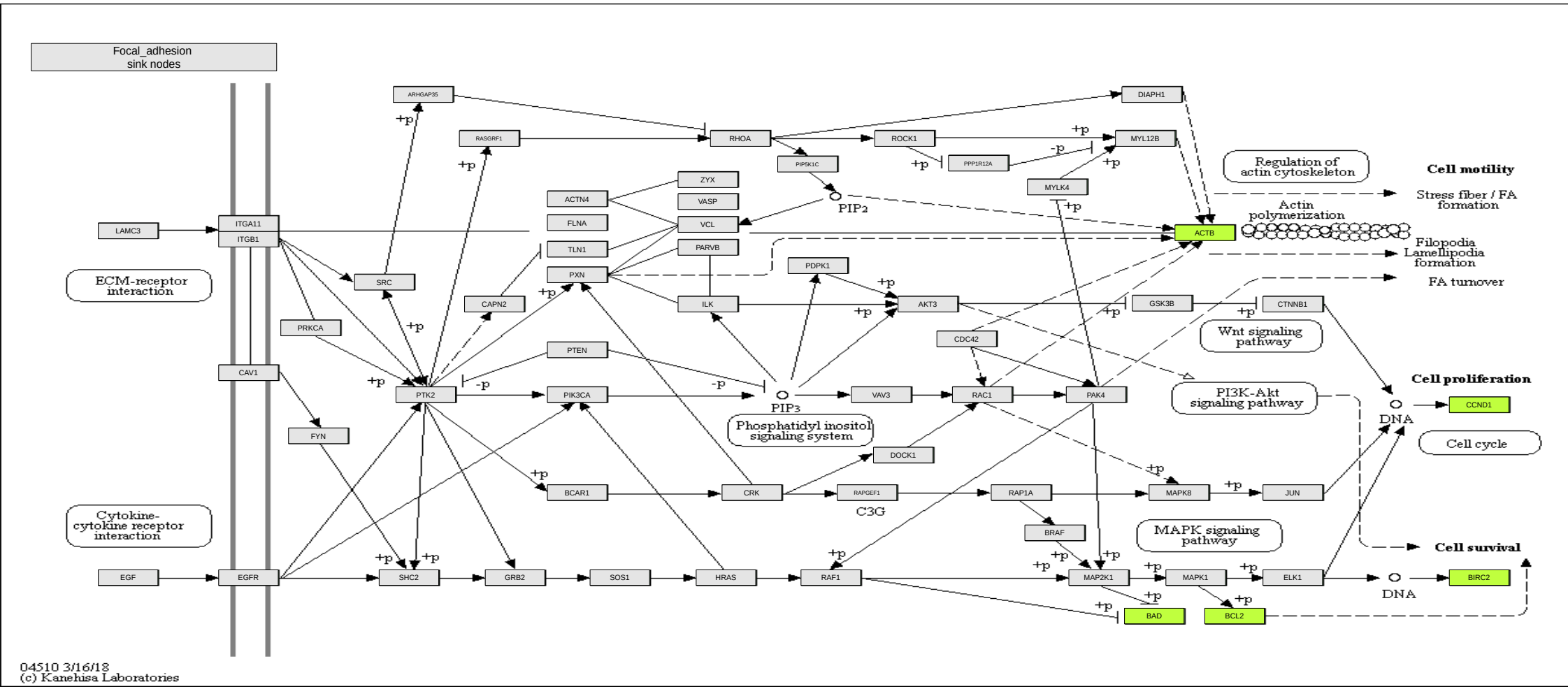
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sink nodes
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ROCK1
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MYLK4
Regulation of actin cytoskeleton
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PIP3
VAV3
RAC1
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C3G
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GRB2
SOS1
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RAF1
MAP2K1
MAPK1
ELK1
DNA
BIRC2
BAD
BCL2
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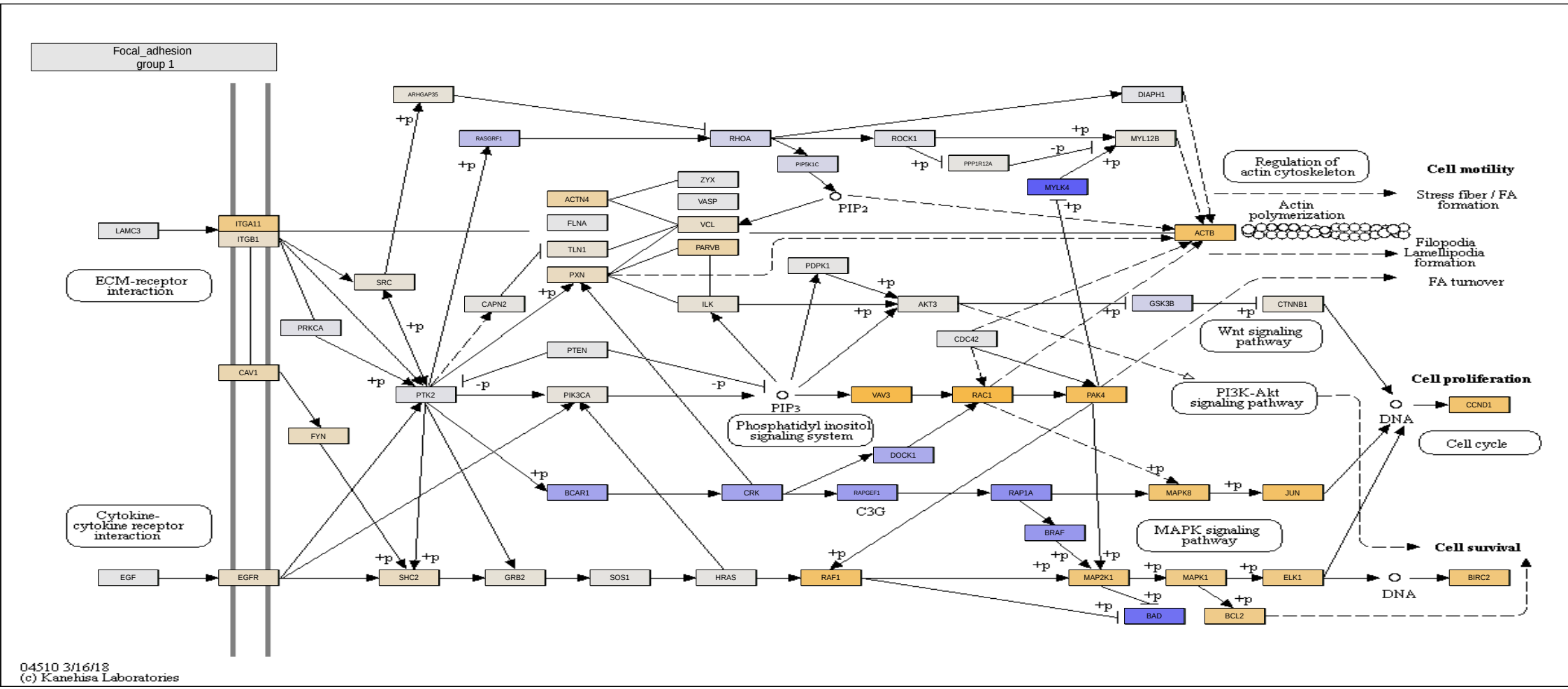
(c) Kanehisa Laboratories


Focal_adhesion
group 1
ARHGAP35
DIAPH1
RASGRF1
RHOA
ROCK1
MYL12B
PIP5K1C
PPP1R12A
MYLK4
Regulation of actin cytoskeleton
Cell motility
Stress fiber / FA formation
ZYX
VASP
ACTN4
FLNA
VCL
PARVB
TLN1
PXN
PIP2
Actin polymerization
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Lamellipodia formation
FA turnover
LAMC3
ITGA11
ITGB1
ECM-receptor interaction
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CAPN2
PDPK1
ILK
AKT3
GSK3B
CTNNB1
Wnt signaling pathway
PRKCA
CDC42
PTEN
CAV1
PTK2
PIK3CA
PIP3
VAV3
RAC1
PAK4
PI3K-Akt signaling pathway
Cell proliferation
DNA
CCND1
Cell cycle
Phosphatidyl inositol signaling system
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RAP1A
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EGF
EGFR
SHC2
GRB2
SOS1
HRAS
RAF1
MAP2K1
MAPK1
ELK1
DNA
BIRC2
BAD
BCL2
+p
-p
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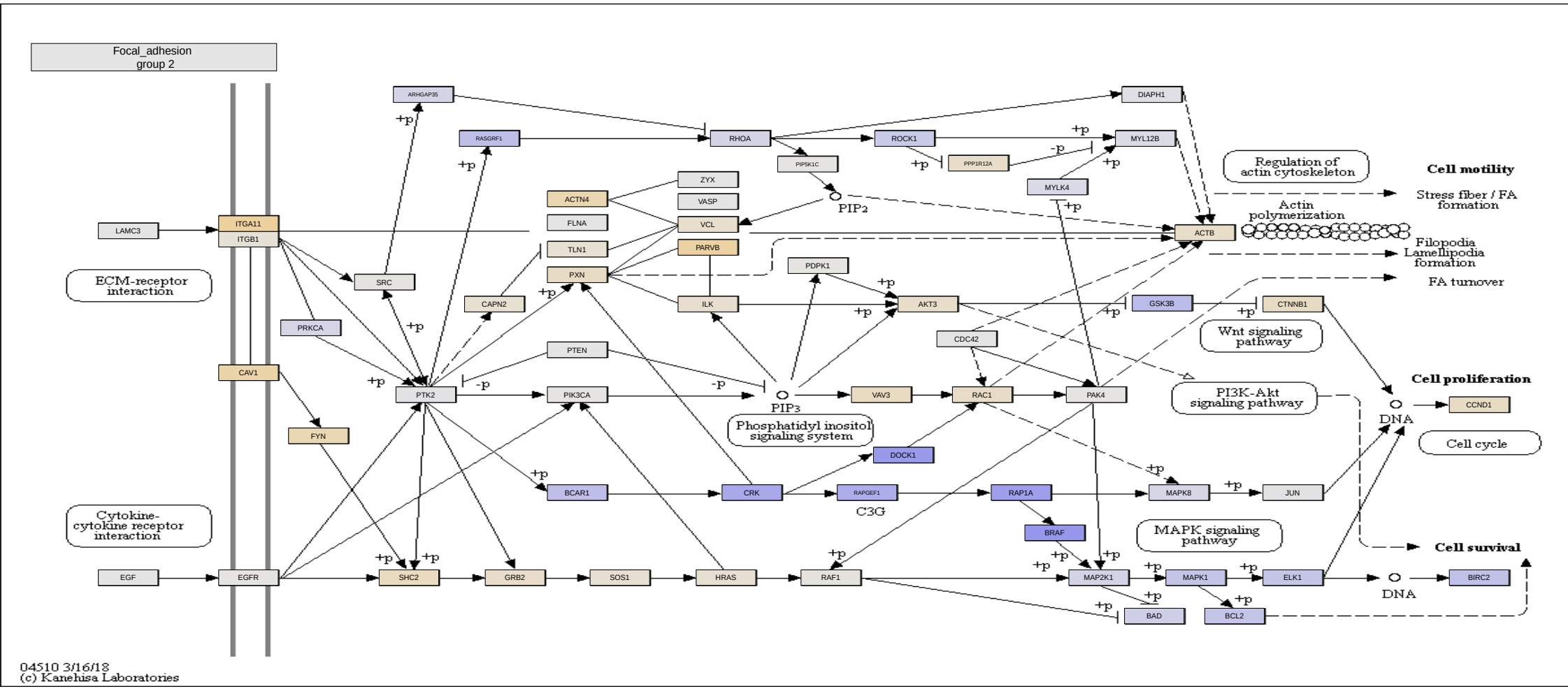
Focal_adhesion
group 2
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DIAPH1
RASGRF1
RHOA
ROCK1
MYL12B
PIP5K1C
PPP1R12A
MYLK4
Regulation of actin cytoskeleton
Cell motility
Stress fiber / FA formation
ZYX
VASP
ACTN4
FLNA
VCL
PARVB
TLN1
PXN
PIP2
Actin polymerization
ACTB
Filopodia
Lamellipodia formation
FA turnover
LAMC3
ITGA11
ITGB1
ECM-receptor interaction
SRC
CAPN2
PDPK1
ILK
AKT3
GSK3B
CTNNB1
Wnt signaling pathway
PRKCA
CDC42
PTEN
CAV1
PTK2
PIK3CA
PIP3
VAV3
RAC1
PAK4
PI3K-Akt signaling pathway
Cell proliferation
DNA
CCND1
Cell cycle
FYN
Phosphatidyl inositol signaling system
DOCK1
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RAP1A
MAPK8
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MAPK signaling pathway
Cell survival
EGF
EGFR
SHC2
GRB2
SOS1
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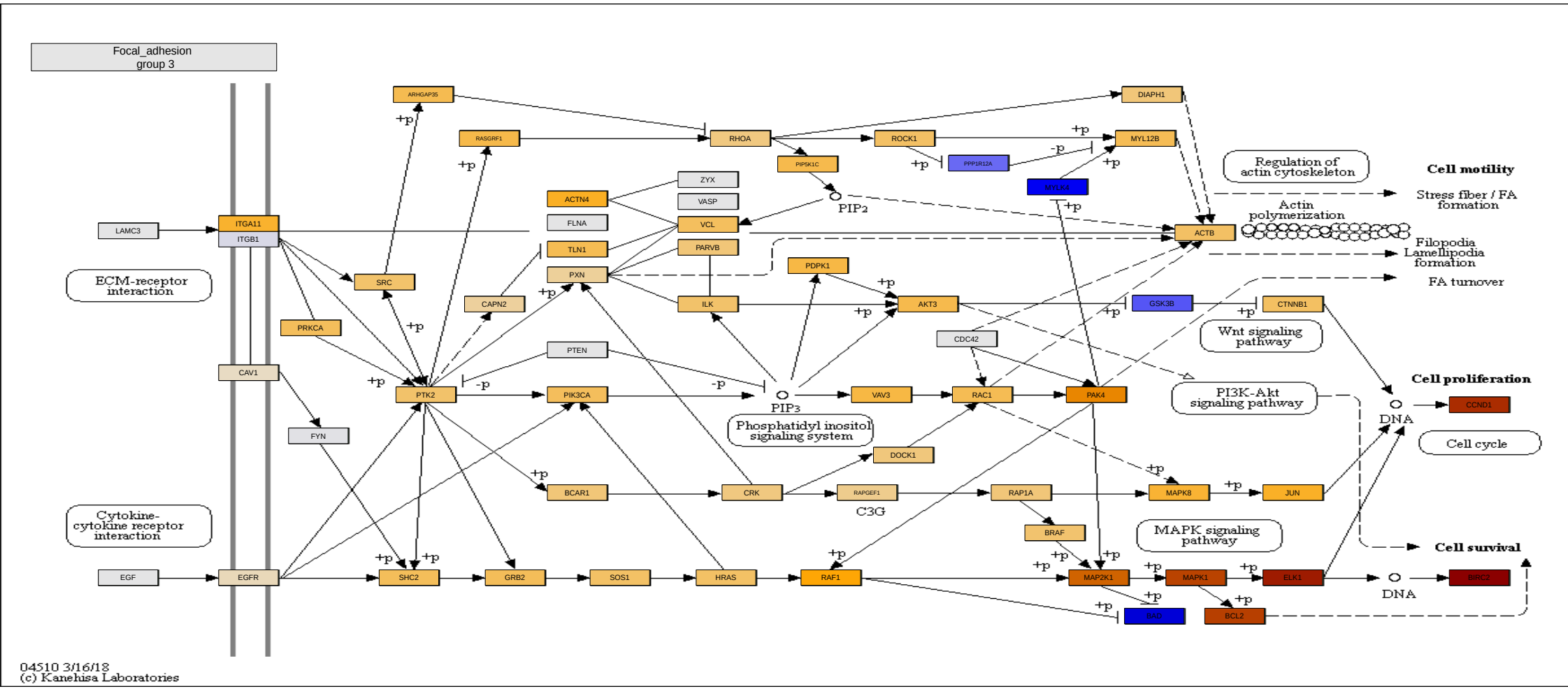
RAF1
MAP2K1
MAPK1
ELK1
DNA
BIRC2
BAD
BCL2
04510 3/16/18
(c) Kanehisa Laboratories



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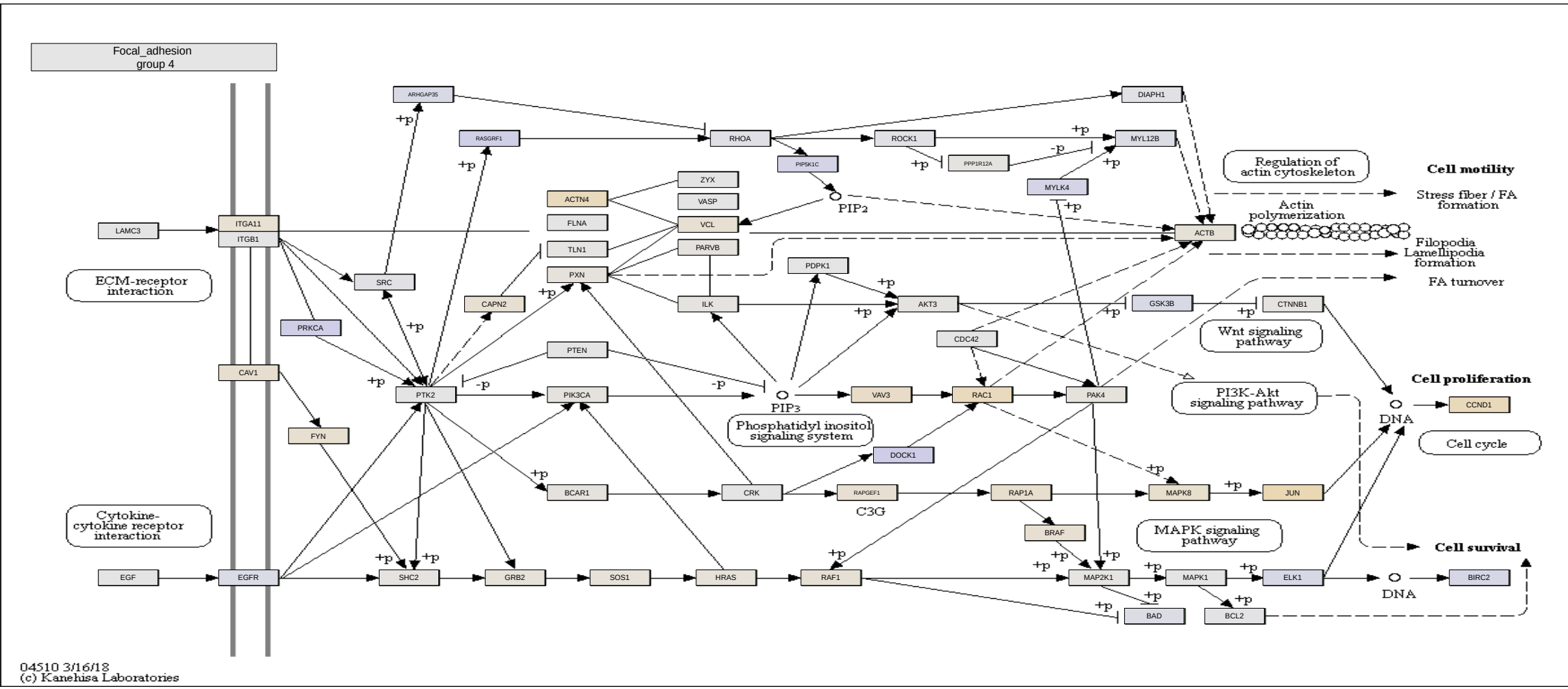
Focal_adhesion
group 4
ARHGAP35
DIAPH1
RASGRF1
RHOA
ROCK1
MYL12B
PIP5K1C
PPP1R12A
MYLK4
Regulation of actin cytoskeleton
Cell motility
Stress fiber / FA formation
ZYX
VASP
ACTN4
FLNA
VCL
PIP2
Actin polymerization
LAMC3
ITGA11
ITGB1
TLN1
PARVB
ACTB
Filopodia
Lamellipodia formation
PXN
PDPK1
ECM-receptor interaction
SRC
FA turnover
CAPN2
ILK
AKT3
GSK3B
CTNNB1
PRKCA
Wnt signaling pathway
CDC42
PTEN
CAV1
Cell proliferation
PTK2
PIK3CA
PIP3
VAV3
RAC1
PAK4
PI3K-Akt signaling pathway
DNA
CCND1
Phosphatidyl inositol signaling system
FYN
DOCK1
Cell cycle
BCAR1
CRK
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RAP1A
MAPK8
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BRAF
MAPK signaling pathway
Cell survival
EGF
EGFR
SHC2
GRB2
SOS1
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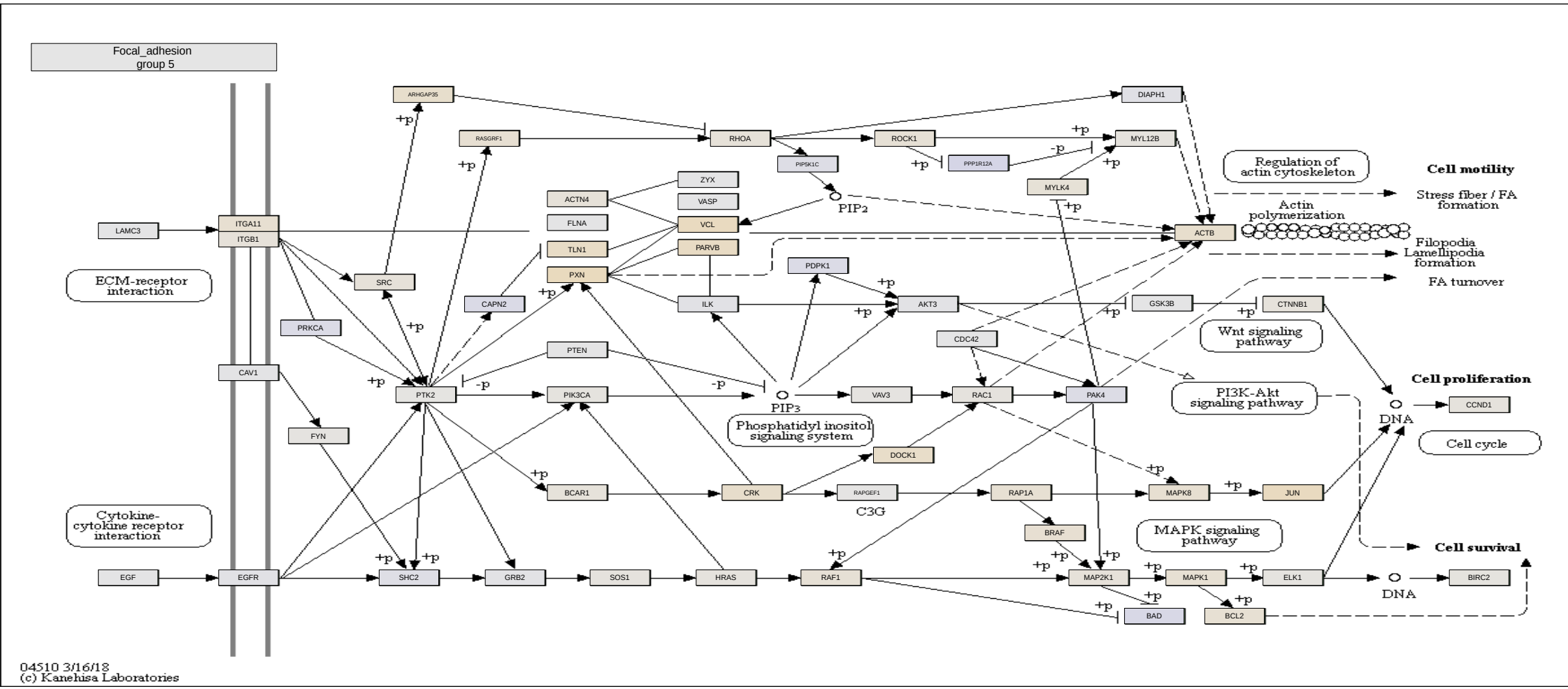
MAP2K1
MAPK1
ELK1
DNA
BIRC2
BAD
BCL2
04510 3/16/18
(c) Kanehisa Laboratories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MYLK4
Regulation of actin cytoskeleton
Cell motility
Stress fiber / FA formation
ZYX
VASP
ACTN4
FLNA
VCL
PARVB
TLN1
PXN
PIP2
Actin polymerization
ACTB
Filopodia
Lamellipodia formation
FA turnover
LAMC3
ITGA11
ITGB1
ECM-receptor interaction
SRC
CAPN2
PDPK1
ILK
AKT3
GSK3B
CTNNB1
Wnt signaling pathway
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PTK2
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PIP3
VAV3
RAC1
PAK4
PI3K-Akt signaling pathway
Cell proliferation
DNA
CCND1
Phosphatidyl inositol signaling system
FYN
DOCK1
Cell cycle
BCAR1
CRK
RAPGEF1
C3G
RAP1A
MAPK8
JUN
Cytokine-cytokine receptor interaction
BRAF
MAPK signaling pathway
Cell survival
EGF
EGFR
SHC2
GRB2
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MAPK1
ELK1
DNA
BIRC2
BAD
BCL2
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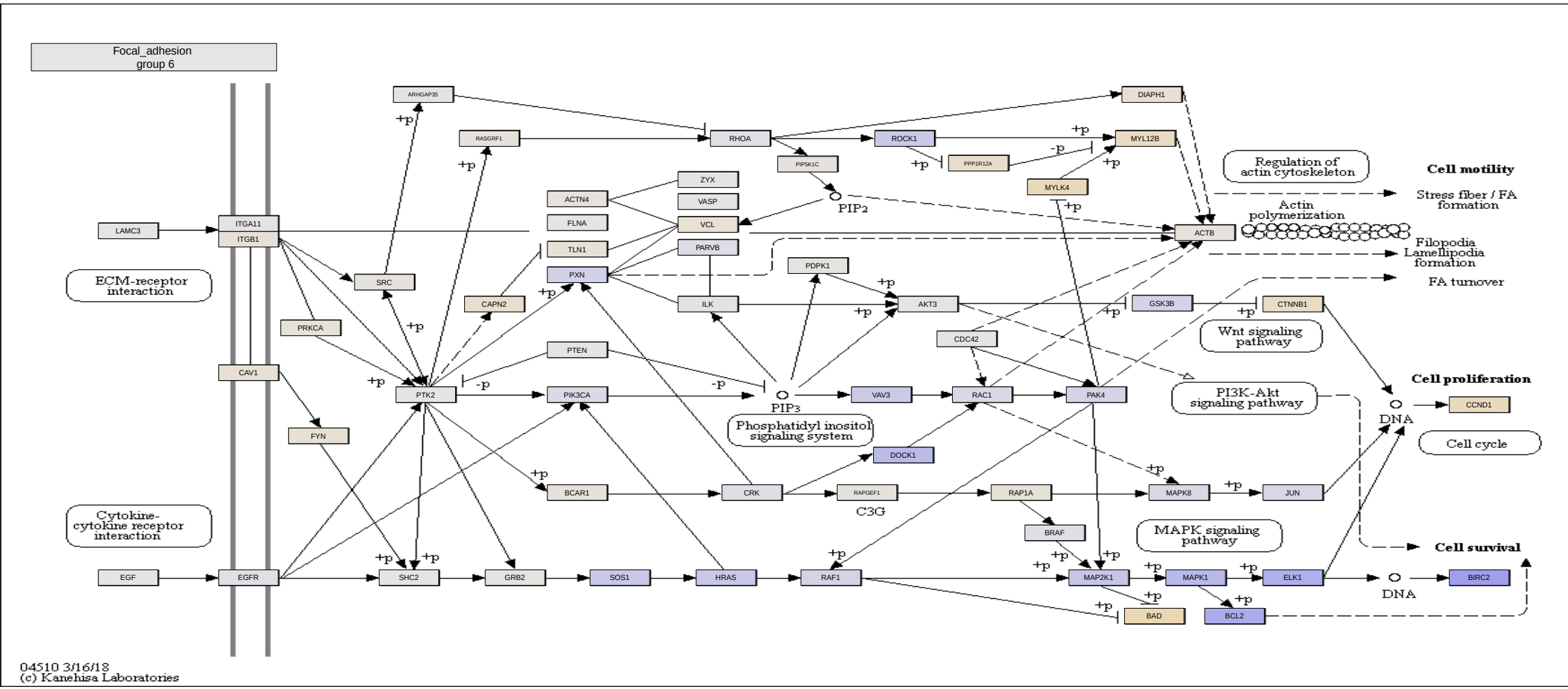
Focal_adhesion
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MYLK4
Regulation of actin cytoskeleton
Cell motility
Stress fiber / FA formation
ZYX
VASP
ACTN4
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VCL
PARVB
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PXN
PIP2
Actin polymerization
ACTB
Filopodia
Lamellipodia formation
FA turnover
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ECM-receptor interaction
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Wnt signaling pathway
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PIP3
VAV3
RAC1
PAK4
PI3K-Akt signaling pathway
Cell proliferation
DNA
CCND1
Cell cycle
FYN
Phosphatidyl inositol signaling system
DOCK1
BCAR1
CRK
RAPGEF1
C3G
RAP1A
MAPK8
JUN
Cytokine-cytokine receptor interaction
BRAF
MAPK signaling pathway
Cell survival
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DNA
BIRC2
BAD
BCL2
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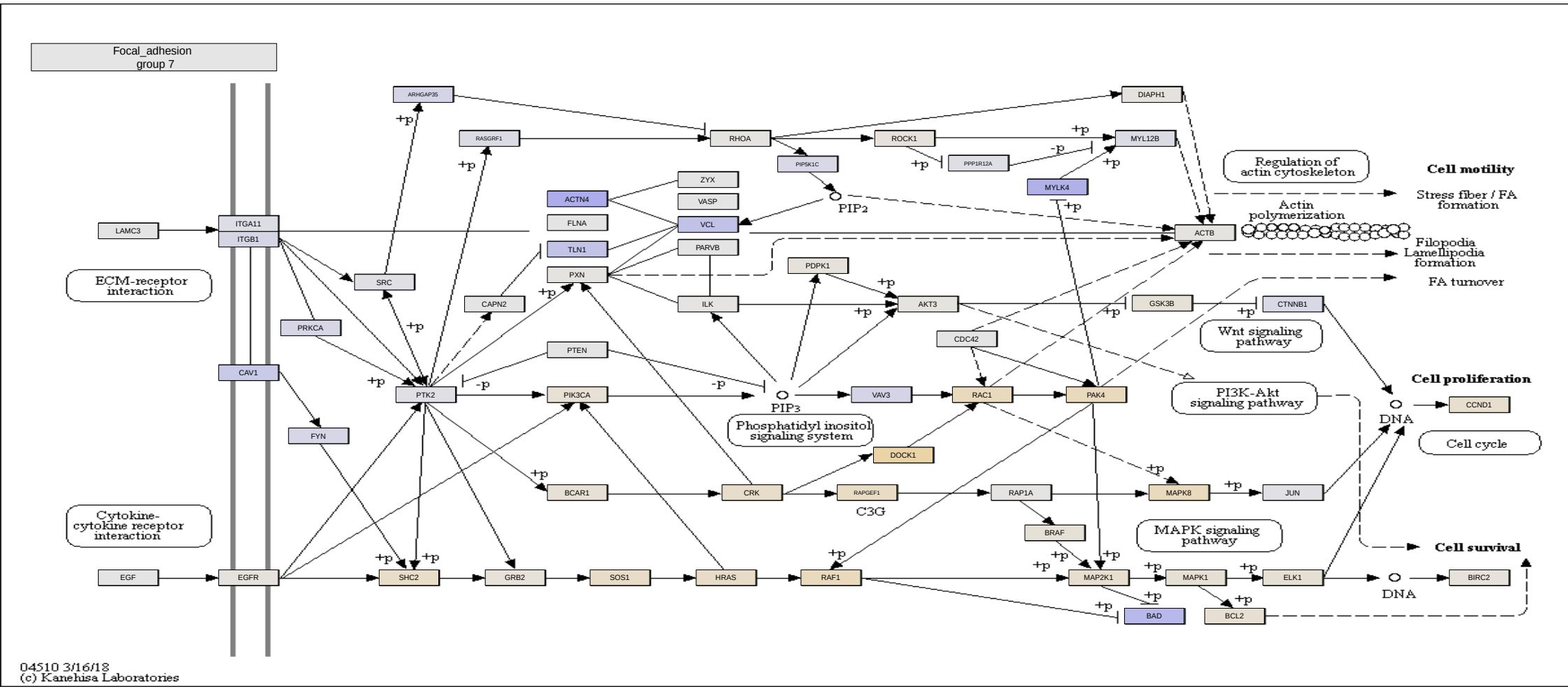
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MYLK4
Regulation of actin cytoskeleton
Cell motility
Stress fiber / FA formation
ZYX
VASP
ACTN4
FLNA
VCL
TLN1
PARVB
PXN
PIP2
Actin polymerization
ACTB
Filopodia
Lamellipodia formation
FA turnover
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ITGA11
ITGB1
ECM-receptor interaction
SRC
CAPN2
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ILK
AKT3
GSK3B
CTNNB1
Wnt signaling pathway
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CDC42
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PIP3
VAV3
RAC1
PAK4
PI3K-Akt signaling pathway
Cell proliferation
DNA
CCND1
Cell cycle
FYN
Phosphatidyl inositol signaling system
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BCAR1
CRK
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RAP1A
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Cytokine-cytokine receptor interaction
BRAF
MAPK signaling pathway
Cell survival
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BIRC2
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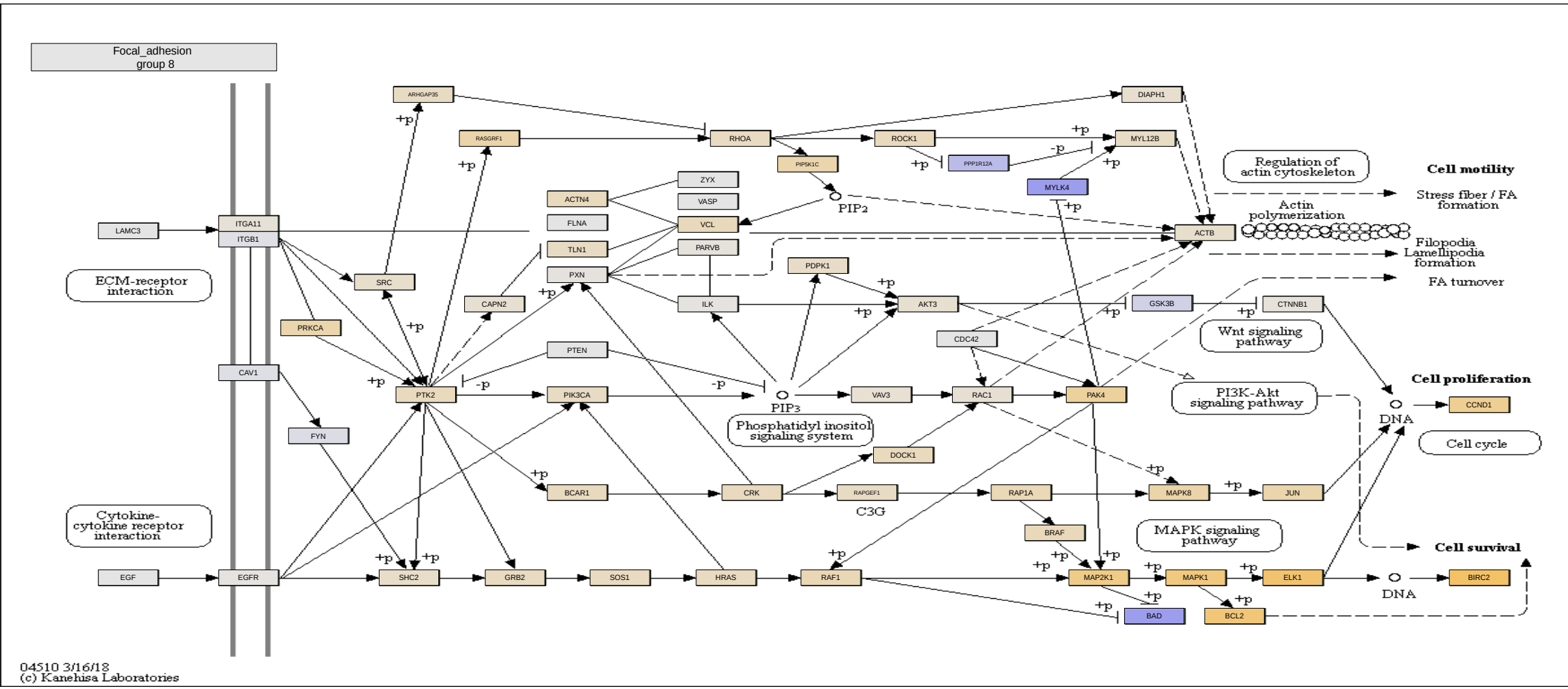
Focal_adhesion
group 8
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PPP1R12A
MYLK4
Regulation of actin cytoskeleton
Cell motility
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