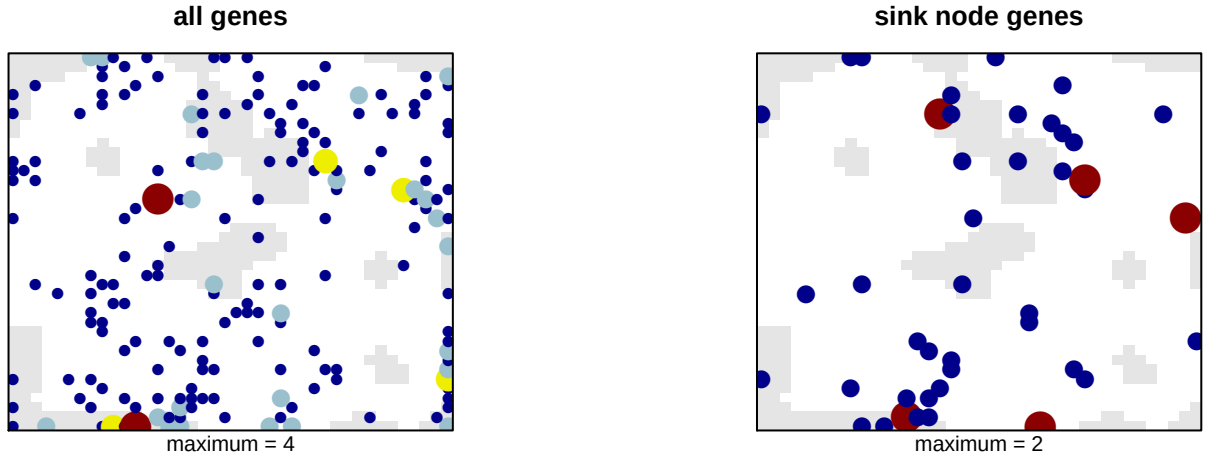
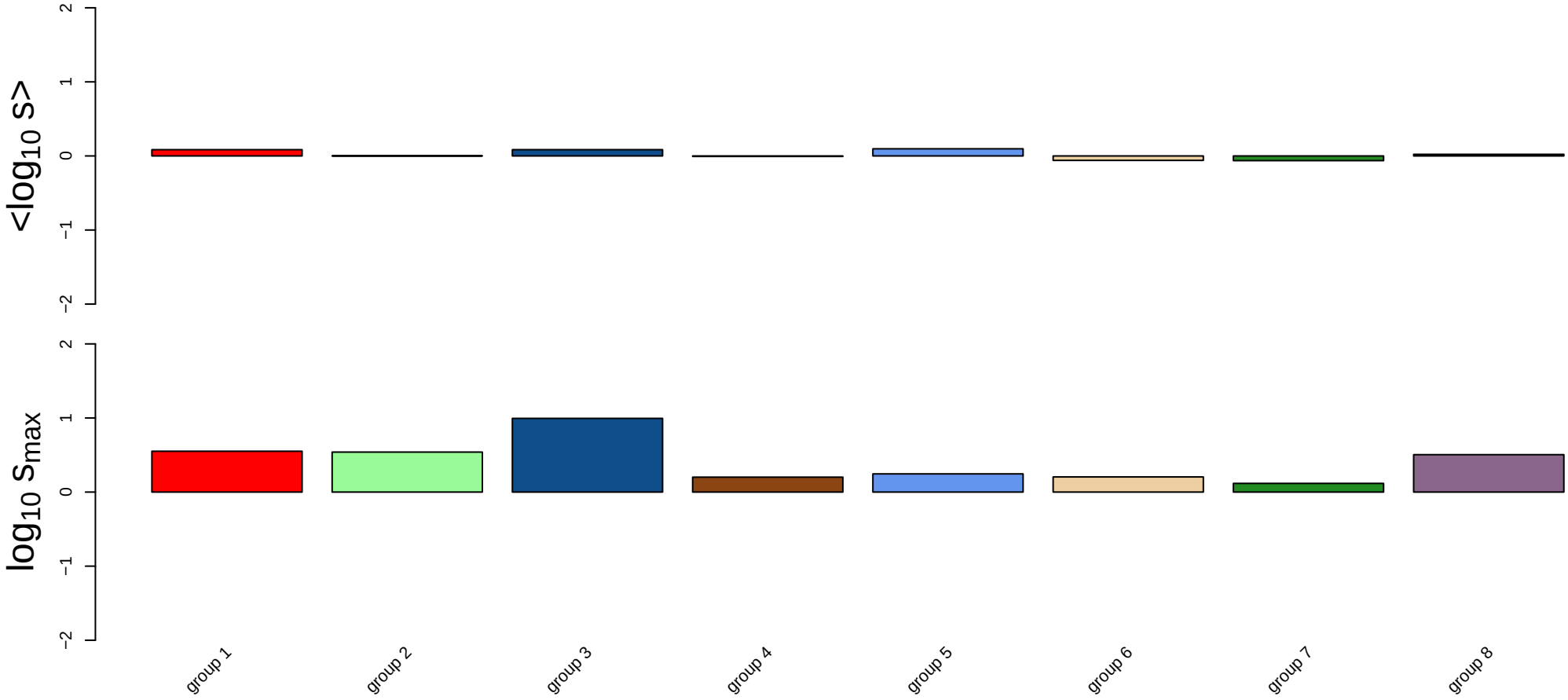
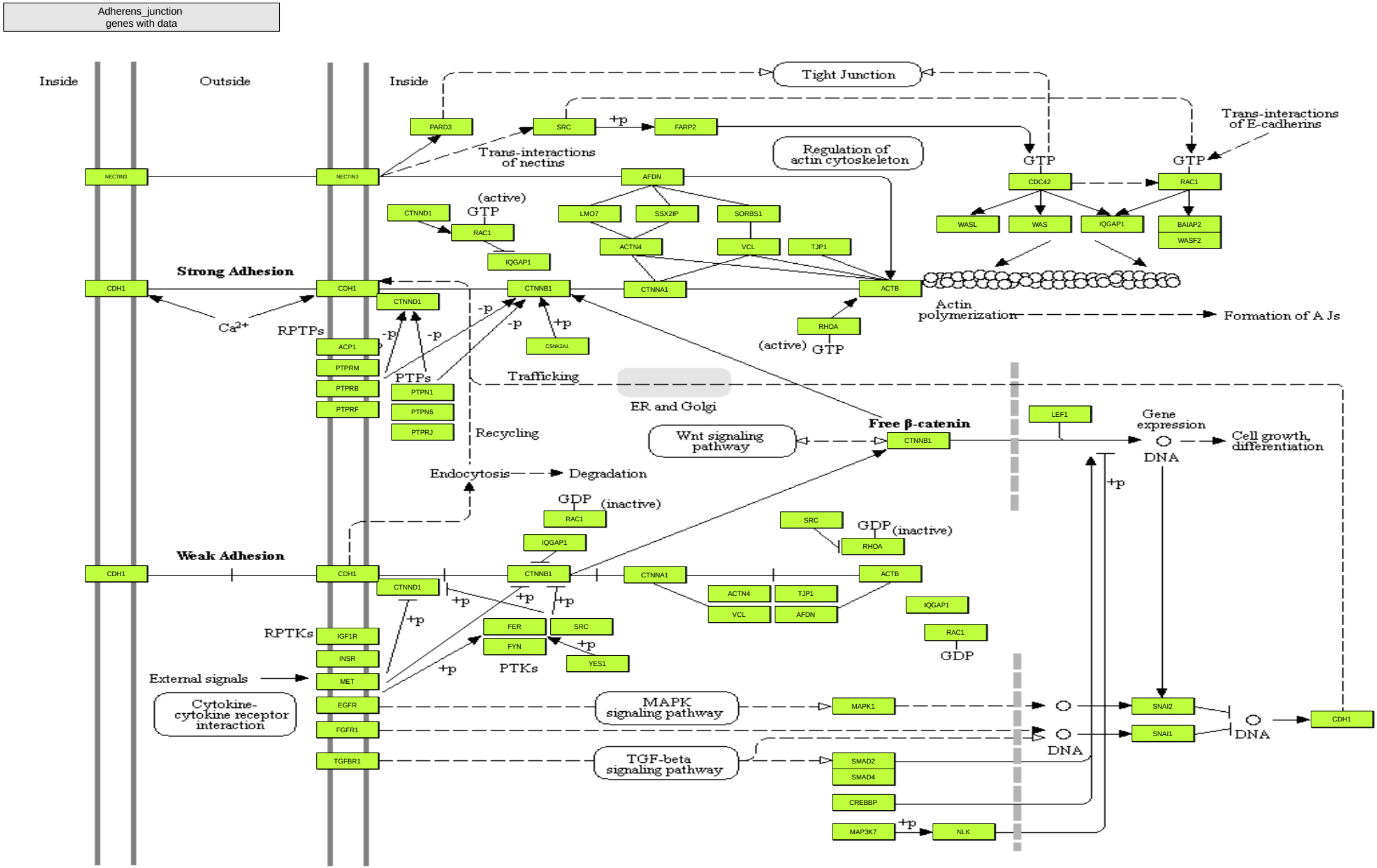
Adherens junction





Adherens_junction
genes with data



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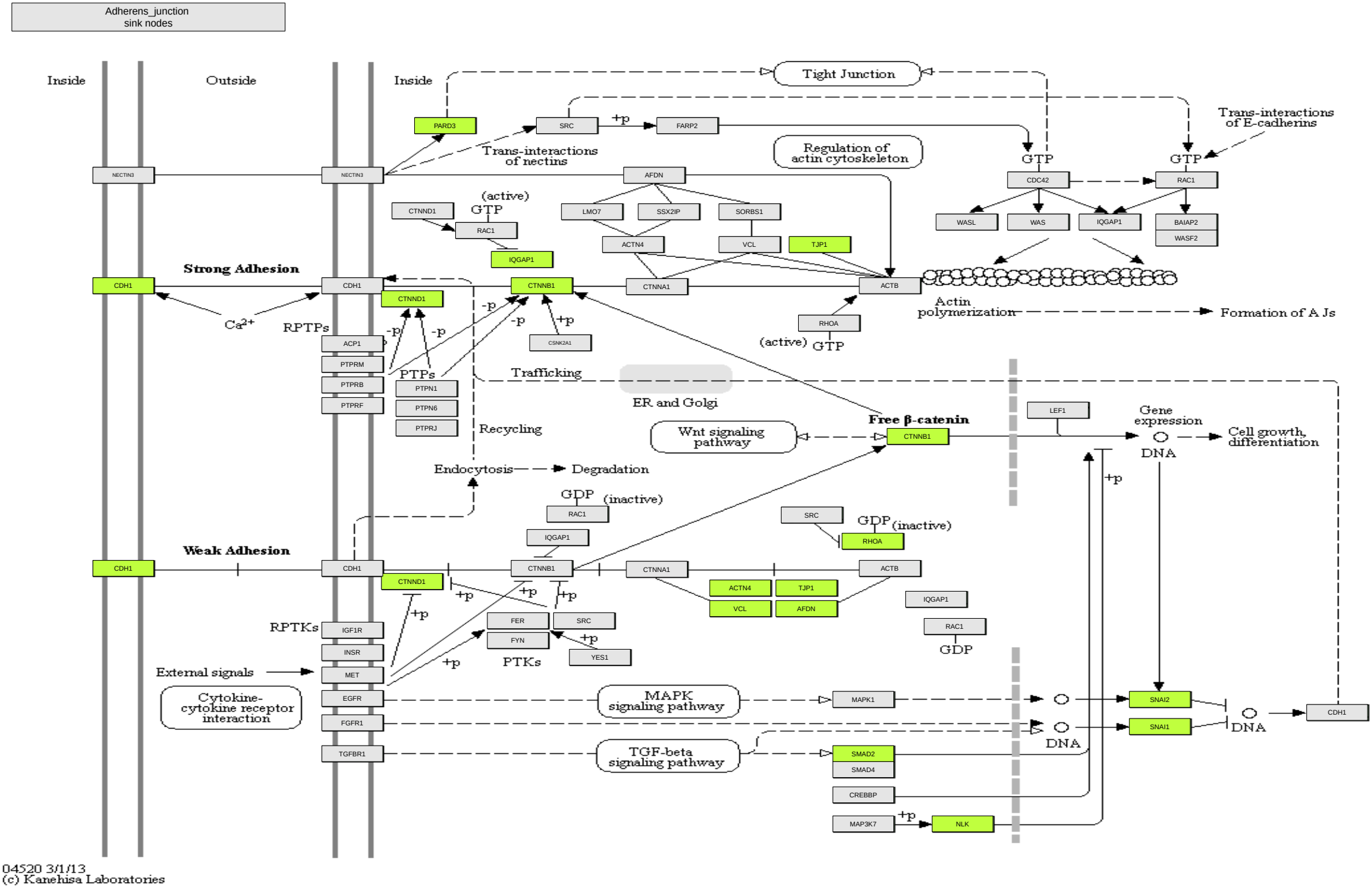
Adherens_junction
sink nodes
Inside
Outside
Inside
Tight Junction
PARD3
SRC
+p
FARP2
Trans-interactions
of E-cadherins
Trans-interactions
of nectins
Regulation of
actin cytoskeleton
GTP
GTP
CDC42
RAC1
NECTIN3
NECTIN3
AFDN
(active)
GTP
CTNND1
RAC1
IQGAP1
LMO7
SSX2IP
SORBS1
ACTN4
VCL
TJP1
WASL
WAS
IQGAP1
BAIAP2
WASF2
Strong Adhesion
CDH1
CDH1
CTNND1
CTNNB1
CTNNA1
ACTB
Actin
polymerization
Formation of A Js
Ca2+
RPTPs
-p
-p
-p
-p
+p
CSNK2A1
RHOA
(active)
GTP
ACP1
PTPRM
PTPRB
PTPRF
PTPs
PTPN1
PTPN6
PTPRJ
Trafficking
ER and Golgi
Recycling
Free β-catenin
Wnt signaling
pathway
CTNNB1
LEF1
Gene
expression
DNA
Cell growth,
differentiation
Endocytosis
Degradation
+p
GDP
(inactive)
RAC1
IQGAP1
SRC
GDP
(inactive)
RHOA
Weak Adhesion
CDH1
CDH1
CTNND1
CTNNB1
CTNNA1
ACTB
ACTN4
TJP1
VCL
AFDN
IQGAP1
RAC1
GDP
+p
+p
+p
+p
RPTKs
IGF1R
INSR
MET
EGFR
FGFR1
TGFBR1
FER
SRC
FYN
YES1
PTKs
+p
+p
External signals
Cytokine-
cytokine receptor
interaction
MAPK
signaling pathway
MAPK1
TGF-beta
signaling pathway
SMAD2
SMAD4
CREBBP
MAP3K7
+p
NLK
SNAI2
SNAI1
DNA
DNA
CDH1
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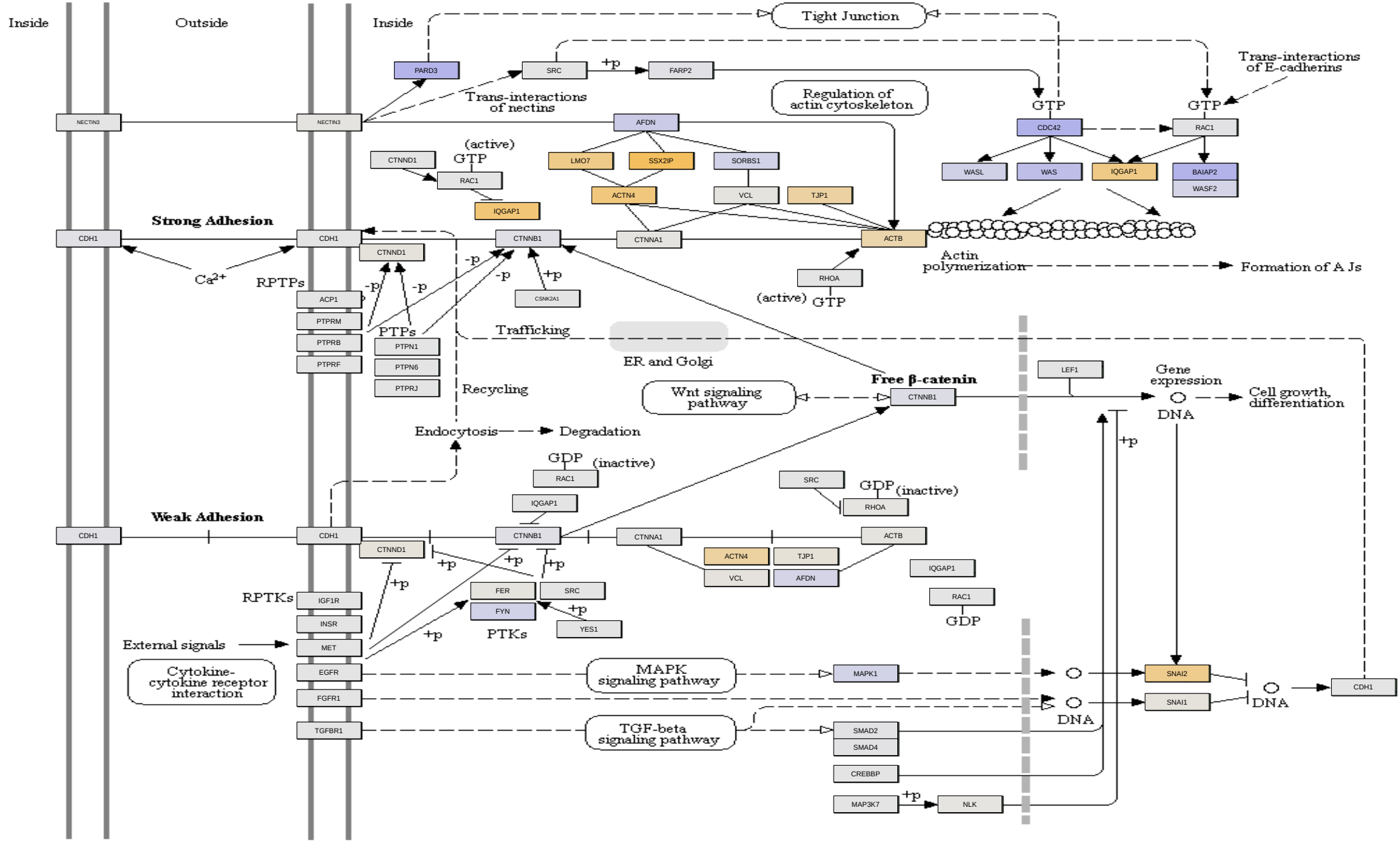
group 1



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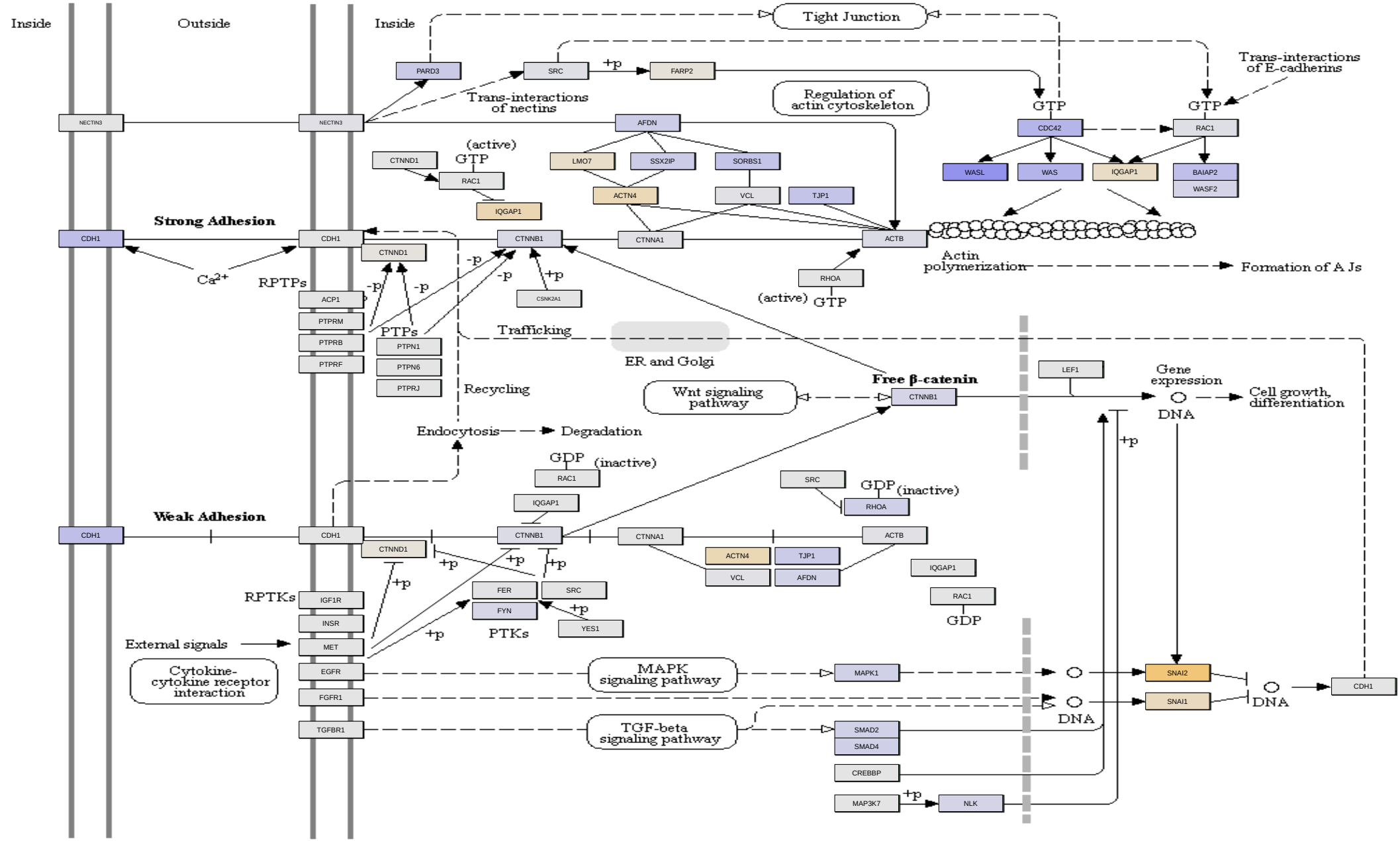
group 2



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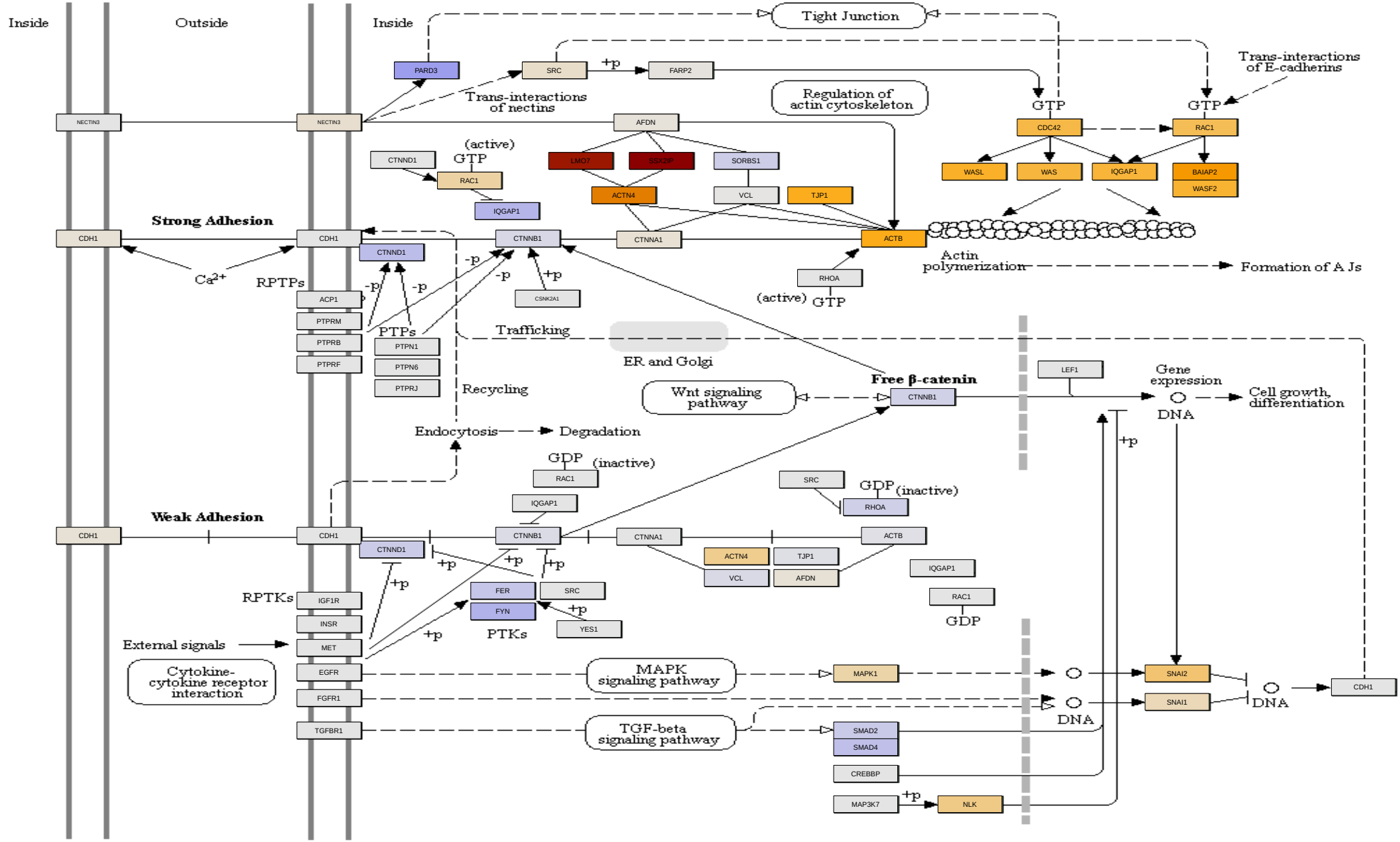
group 3



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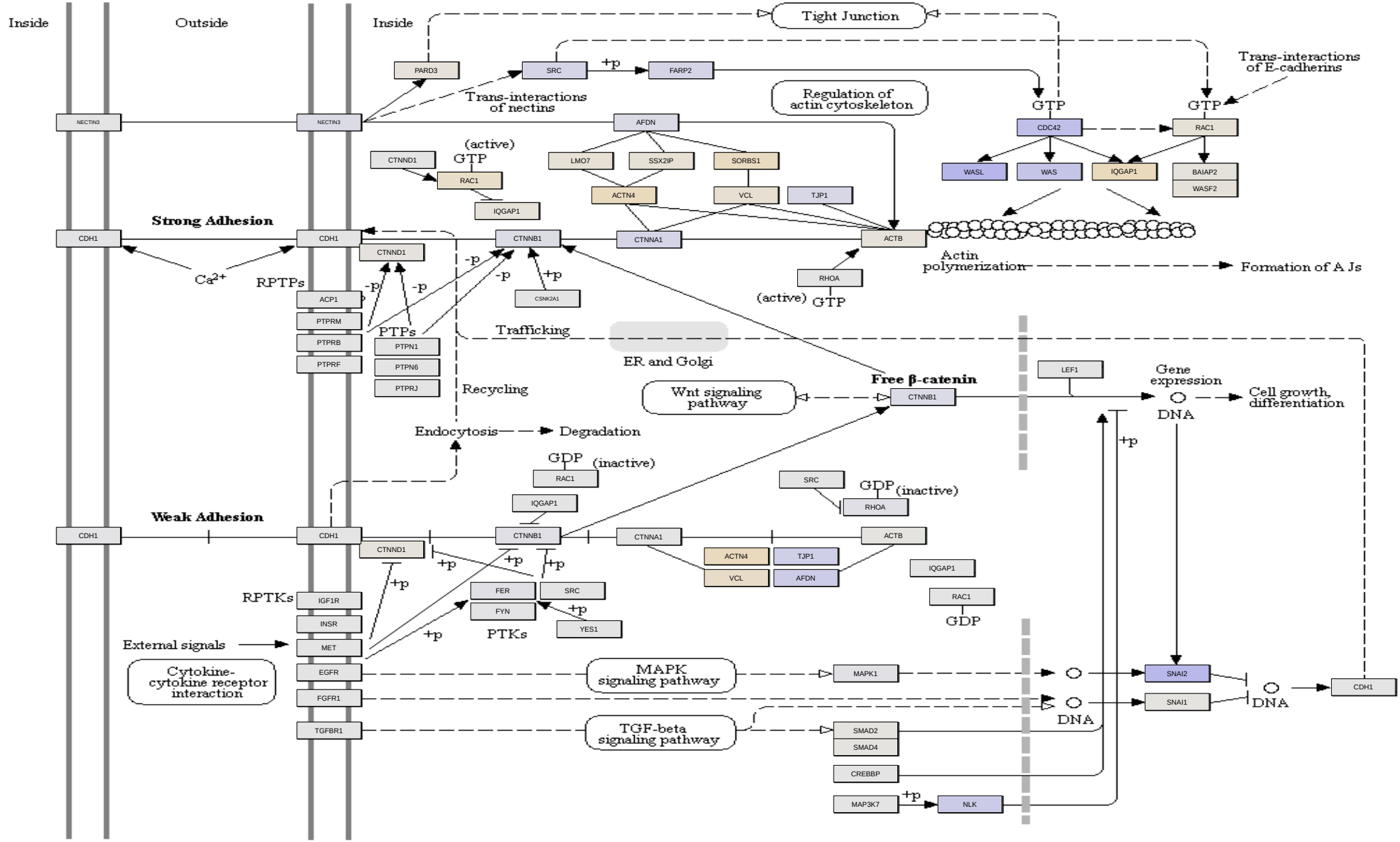
group 4



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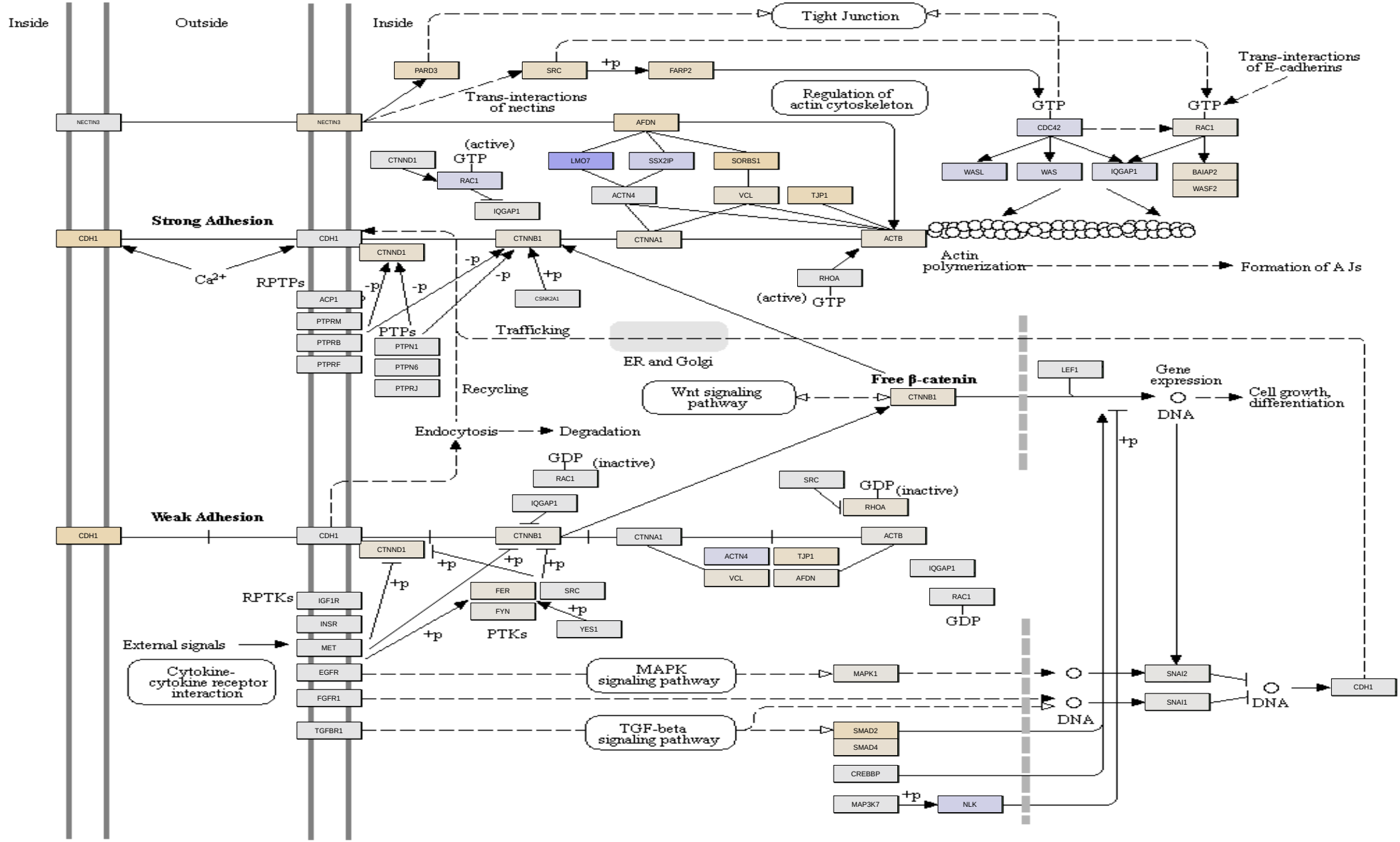
group 5



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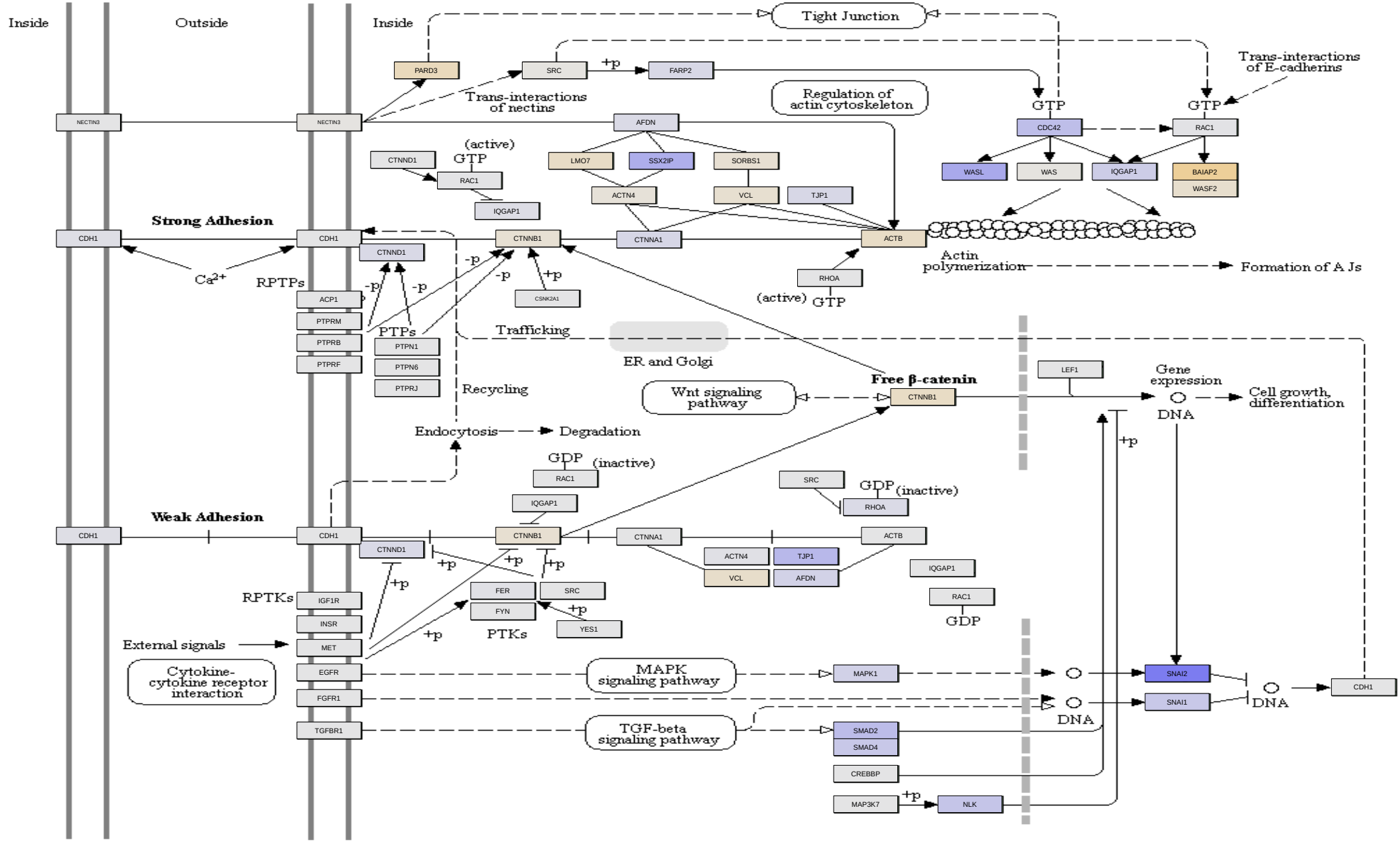
group 6



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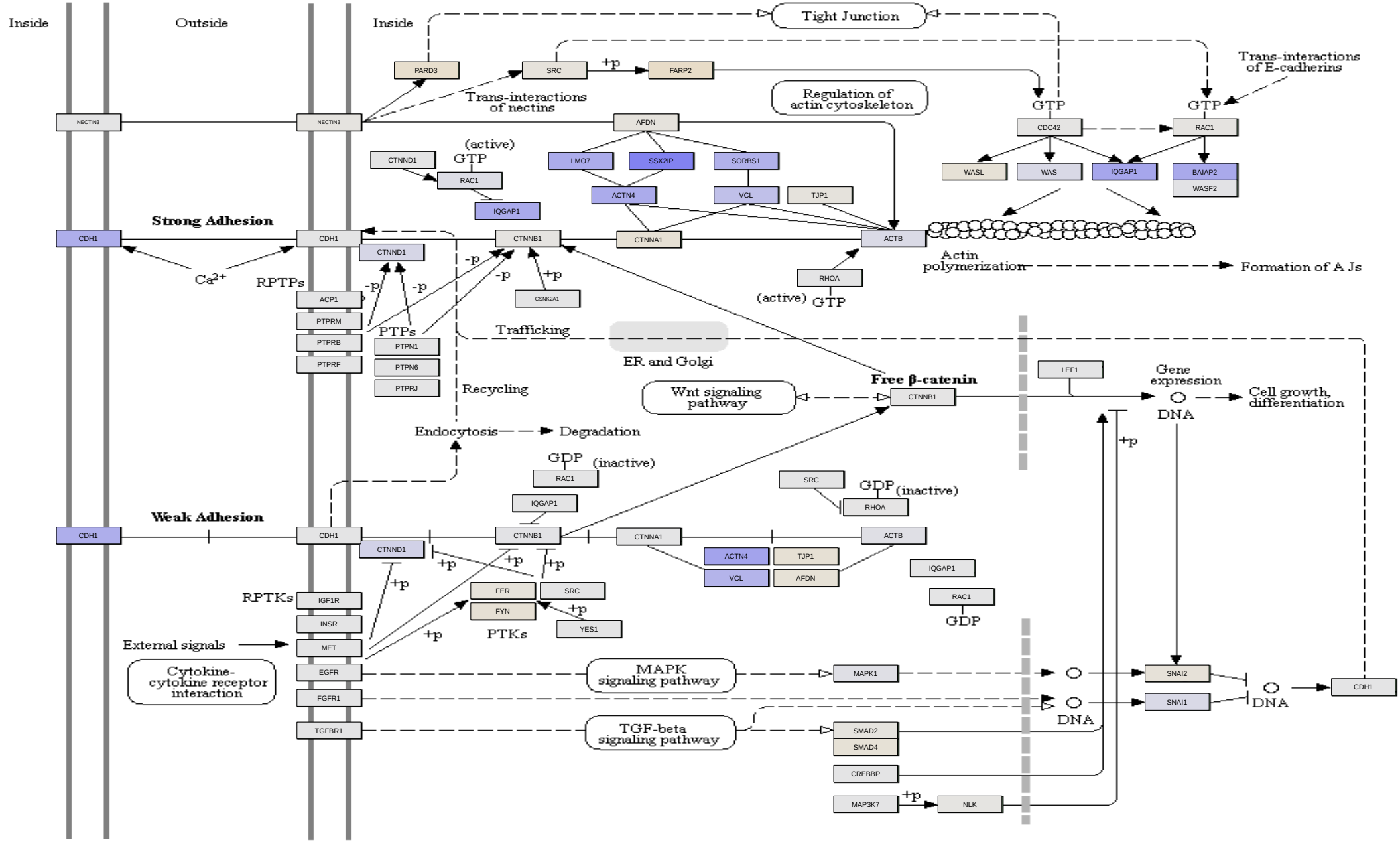
group 7



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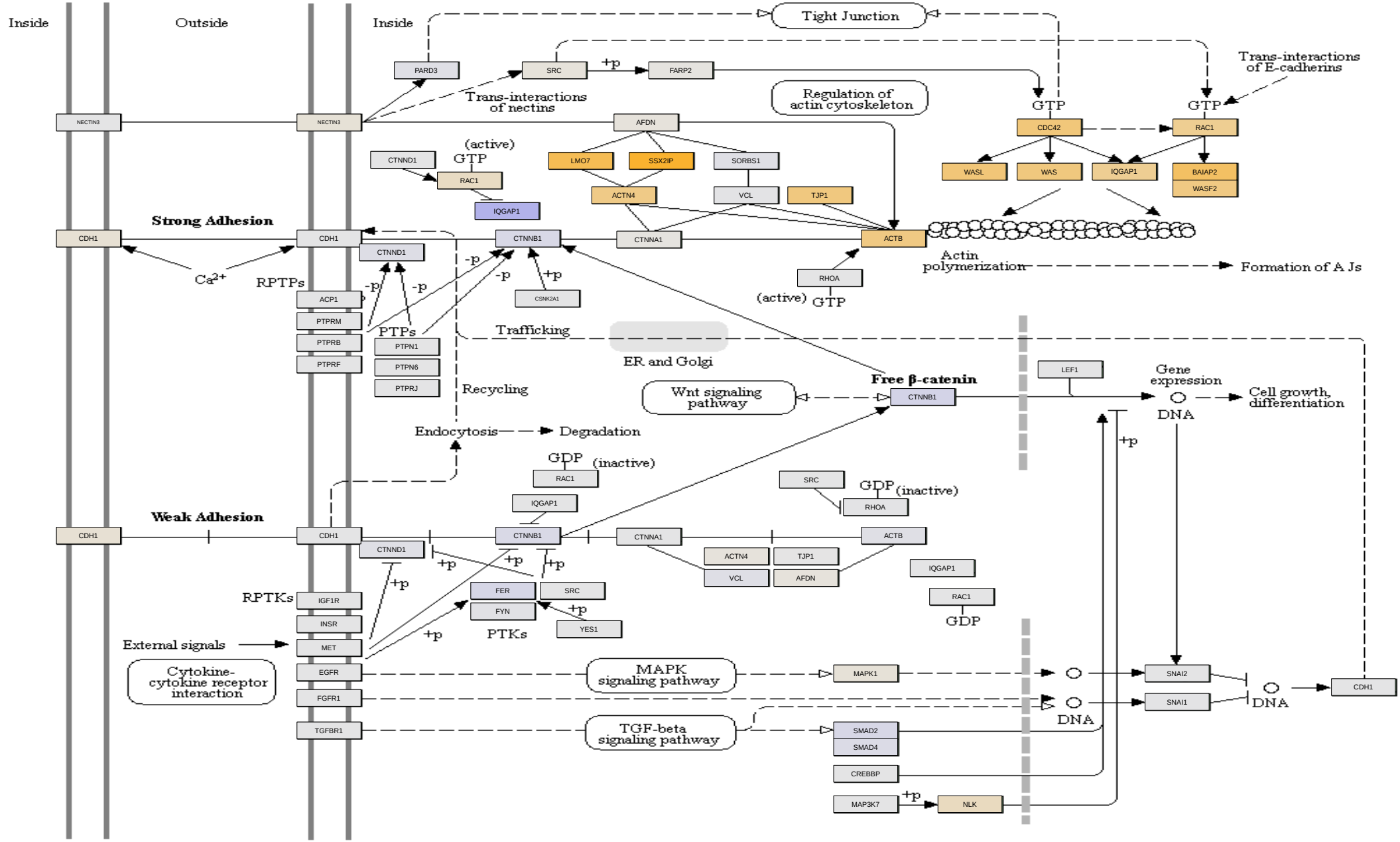
group 8



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