−1　0　1

NPPC → NPR2

20−HETE
KCNMA1

Adenosine
ADORA2A

Prostaglandin I2
PTGIR → GNAS → ADCY1 → 3',5'−Cyclic AMP → PRKACA

MYLK +p MYL6 MYH9 ACTA2

CALCA → CALCRL
NPPA

14,15−EET
KCNMA1

−p ITPR1

ADM
NPPB → NPR1
3',5'−Cyclic GMP

PP1R12A

Nitric oxide
GUCY1A2

PRKG1 +p

MRVI1

Arachidonic acid
EDN1 → EDNRA
PLA2G1B

Noradrenaline
ADRA1D

GNA11 → PLCB2

D−myo−Inositol
1,4,5−trisphosp\
hate
ITPR1

AVP → AVPR1A

PP1R14A

Diacylglycerol
PRKCA → ARAF +p MAP2K +p MAPK1 +p CALD1

GNA12 → ARHGEF1 → RHOA → ROCK1 PP1R12A −p

AGT → AGTR1

Ca2+
CALM1 → MYLK +p MYH9 MYL6 ACTA2

−Data with KEGG pathway−
−Rendered by Pathview−

KEGG diagram legend

Edge Types

compound	——————→
hidden compound	——————→
activation	——————→
inhibition	——————⊣
expression	– – – – →
repression	– – – – ⊣
indirect effect	·············▶
state change	·············
binding/association	– – – – – –
dissociation	············→
phosphorylation	——— +p ———→
dephosphorylation	——— −p ———→
glycosylation	——— +g ———→
ubiquitination	——— +u ———→
methylation	——— +m ———→
others/unknown	– – –? – – →

Node Types

gene (protein/enzyme)	▭
group (complex)	⊟
compound (metabolite/glycan)	⬭
map (pathway)	Pathway name