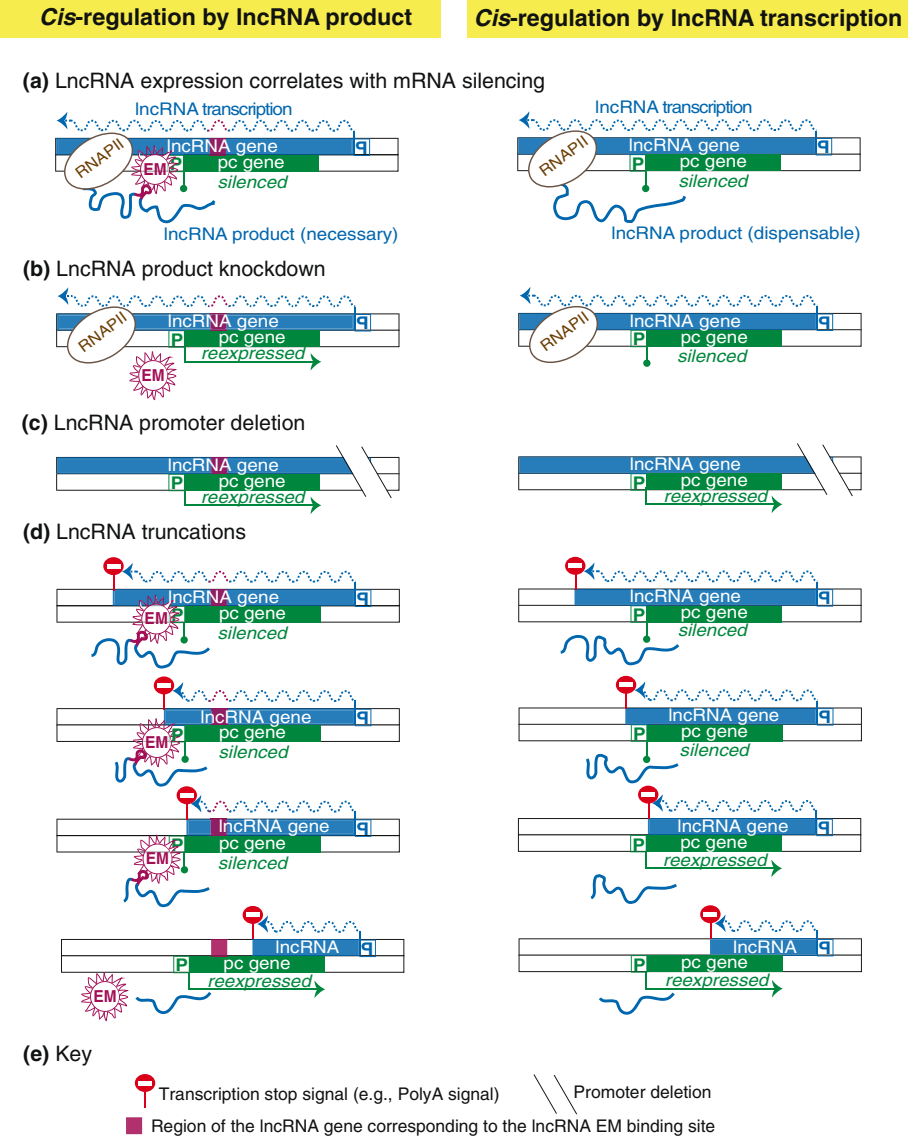

Cis-regulation by lncRNA product
Cis-regulation by lncRNA transcription
(a) LncRNA expression correlates with mRNA silencing
lncRNA transcription
RNAPII
lncRNA gene
pc gene
EM
silenced
lncRNA product (necessary)
lncRNA transcription
RNAPII
lncRNA gene
pc gene
silenced
lncRNA product (dispensable)
(b) LncRNA product knockdown
RNAPII
lncRNA gene
pc gene
reexpressed
EM
RNAPII
lncRNA gene
pc gene
silenced
(c) LncRNA promoter deletion
lncRNA gene
pc gene
reexpressed
lncRNA gene
pc gene
reexpressed
(d) LncRNA truncations
lncRNA gene
pc gene
EM
silenced
lncRNA gene
pc gene
EM
silenced
lncRNA gene
pc gene
EM
silenced
lncRNA
pc gene
reexpressed
EM
lncRNA gene
pc gene
silenced
lncRNA gene
pc gene
silenced
lncRNA gene
pc gene
reexpressed
lncRNA
pc gene
reexpressed
(e) Key
Transcription stop signal (e.g., PolyA signal)
Promoter deletion
Region of the lncRNA gene corresponding to the lncRNA EM binding site