



**SUPPLEMENTARY FIGURE 1. Addition of the SlyX domain increases secretion of GFP.** A, Schematic of the GFP and GFP-SlyX fusion constructs used to analyze the impact of the SlyX on GFP secretion. B, COS7 cells were transfected with wild type GFP, GFP-SlyX. After 48 hours, media were replaced by DMEM without supplements and incubated for 16 hrs. Conditioned media and corresponding cell lysates were subjected to immunoblotting with anti-GFP antibody. The presence of the SlyX domain of IDE strongly increased the secretion of GFP.

## Primers for cloning IDE constructs

Primer name	Sequence
IDEfl pcDNA4/myc-His forward	5'-aat tgg atc cat gcg gaa cgg gct cgt-3'
IDEfl pcDNA4/myc-His reverse	5'-att act cga gag agt ttt gca gcc atg aag tta a-3'
tMTS pcDNA4/myc-His forward	5'-aat tgg atc cat gcg gaa cgg gct cgt g-3'
tMTS pcDNA4/myc-His reverse	5'-att act cga gaa gcc atg aag tta ata tgt ggt ttc acg ag-3'
tCt pcDNA4/myc-His forward	5'-aat tgg atc cat gcg gaa cgg gct cgt g-3'
tCt pcDNA4/myc-His reverse	5'-att act cga gat agt gct tga atg tgt ttt tgg aac gc-3'
tSlyX pcDNA4/myc-His forward	5'-aat tgg atc cat gcg gaa cgg gct cgt-3'
tSlyX pcDNA4/myc-His reverse	5'-att act cga gat gac tgg atg atg aag cgc aa-3'
tNLS pcDNA4/myc-His forward	5'-aat tgg atc cat gcg gaa cgg gct cgt g-3'
tNLS pcDNA4/myc-His reverse	5'-att act cga gac agc aaa att ggc tgt ttg tca ttg-3'
IDEfl pCMV forward	5'-aat tga att caa atg cgg aac ggg ctc gt-3'
IDEfl pCMV reverse	5'-att act cga gtc aga gtt ttg cag cca tga agt taa-3'
tMTS pCMV forward	5'-aat tga att caa atg cgg aac ggg ctc gtg-3'
tMTS pCMV reverse	5'-att act cga gtc aag cca tga agt taa tat gtg gtt tca cga t-3'
tCt pCMV forward	5'-aat tga att caa atg cgg aac ggg ctc gtg-3'
tCt pCMV reverse	5'-att act cga gtc ata gtg ctt gaa tgt gtt ttt gga acg c-3'
tSlyX pCMV forward	5'-aat tga att caa atg cgg aac ggg ctc gt-3'
tSlyX pCMV reverse	5'-att act cga gtc atg act gga tga tga agc gca a-3'
dSlyX forward	5'-ttg cgc ttc atc atc cag ctg gag agc aga gta gaa-3'
dSlyX reverse	5'-ttc tact ct gct ctc cag ctg gat gat gaa gcg caa-3'

## Sequencing primers

Primer name	Sequence
BGH reverse	5'-tag aag gca cag tcg agg-3'
mIDE2	5'-tgg ttt ttc tga ctg gat gat gaa gcg-3'
mIDE3	5'-gta gta cat ggc atg ctg gtg agg-3'
mIDE4	5'-tcc att aag gtc agc att ttg cca ttt-3'
mIDE5	5'-gcc ctt tga ttt gag ttc tga caa cag-3'
mIDE6	5'-gac agc gtt cac ctc tct gtc ttt aca-3'
Seq SlyX Deletion	5'-tct act acc aga cag aca tgc aga gc-3'

SUPPLEMENTARY TABLE1. Primers