

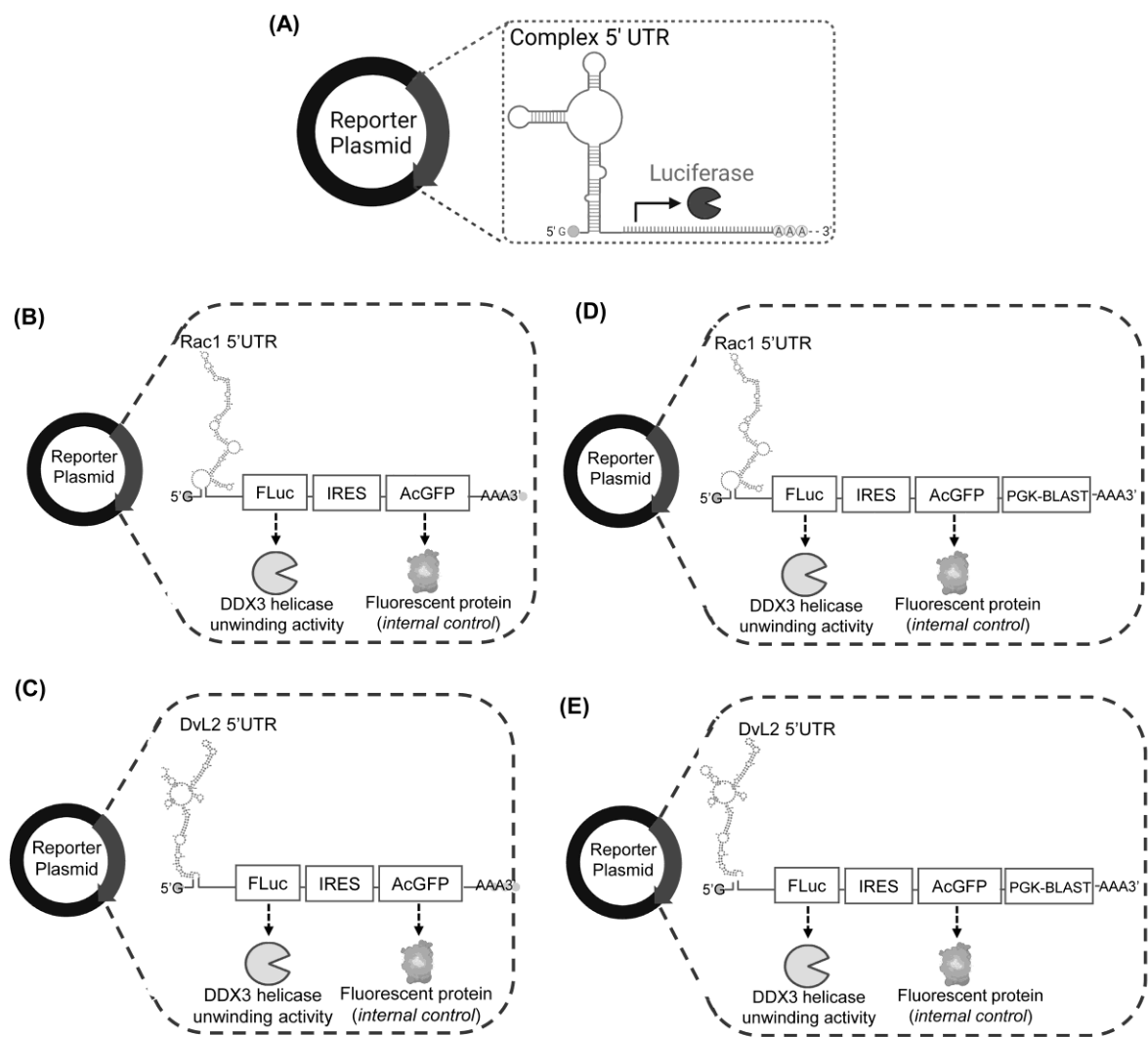


FIG. 1

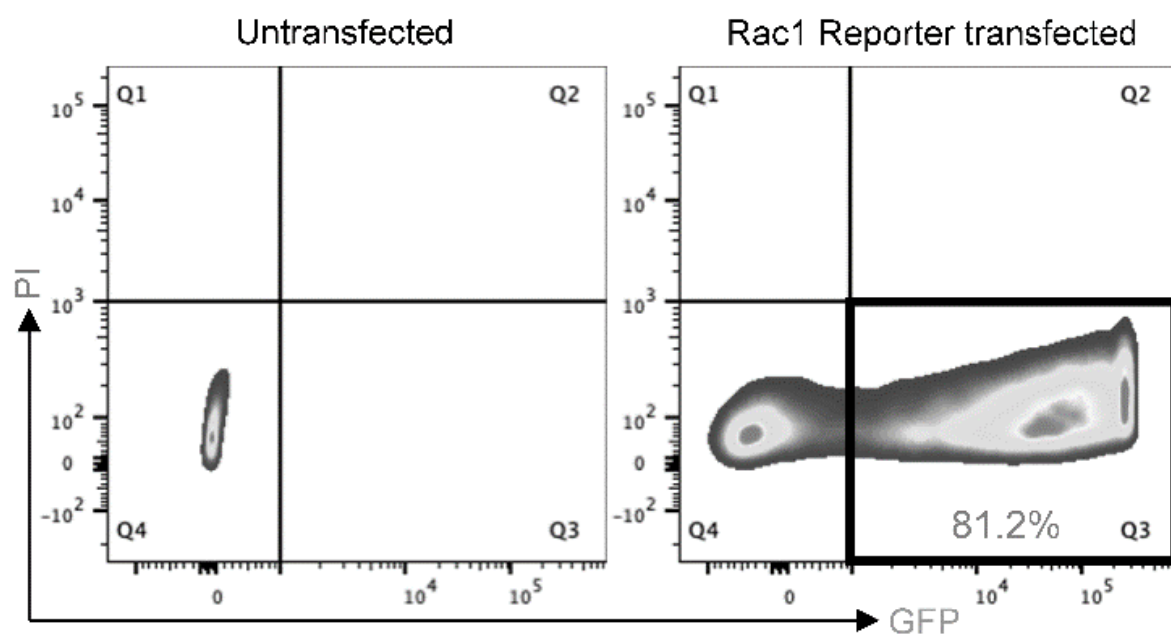


FIG. 2

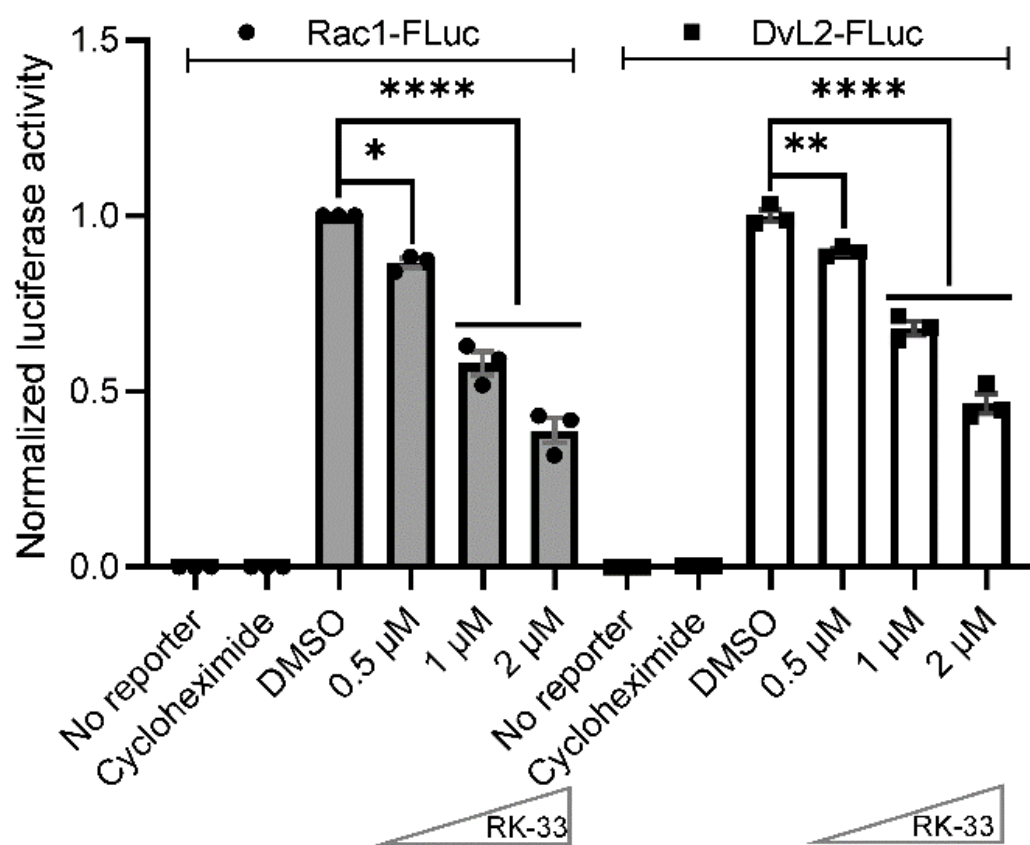


FIG. 3

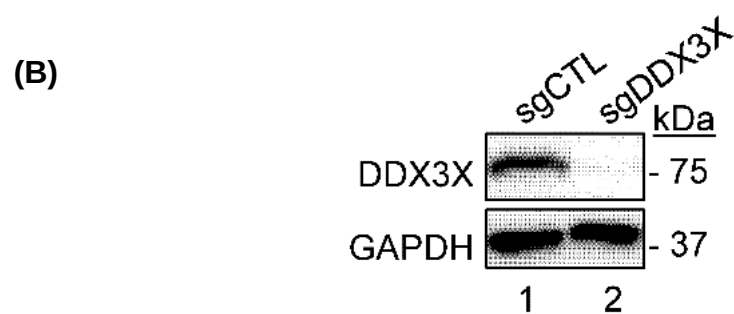
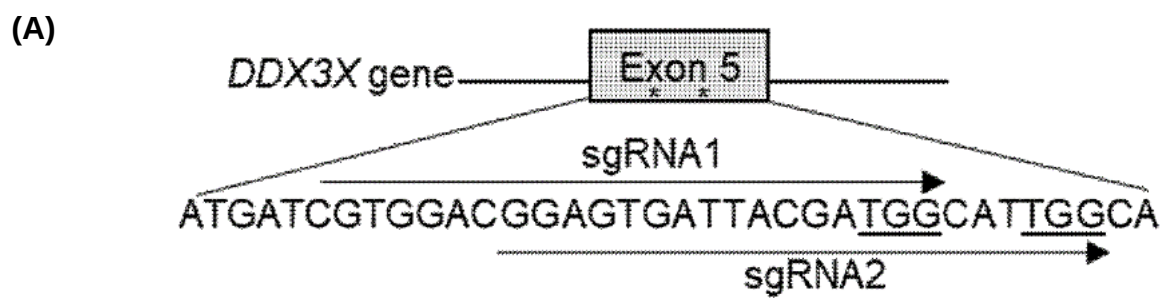


FIG. 4

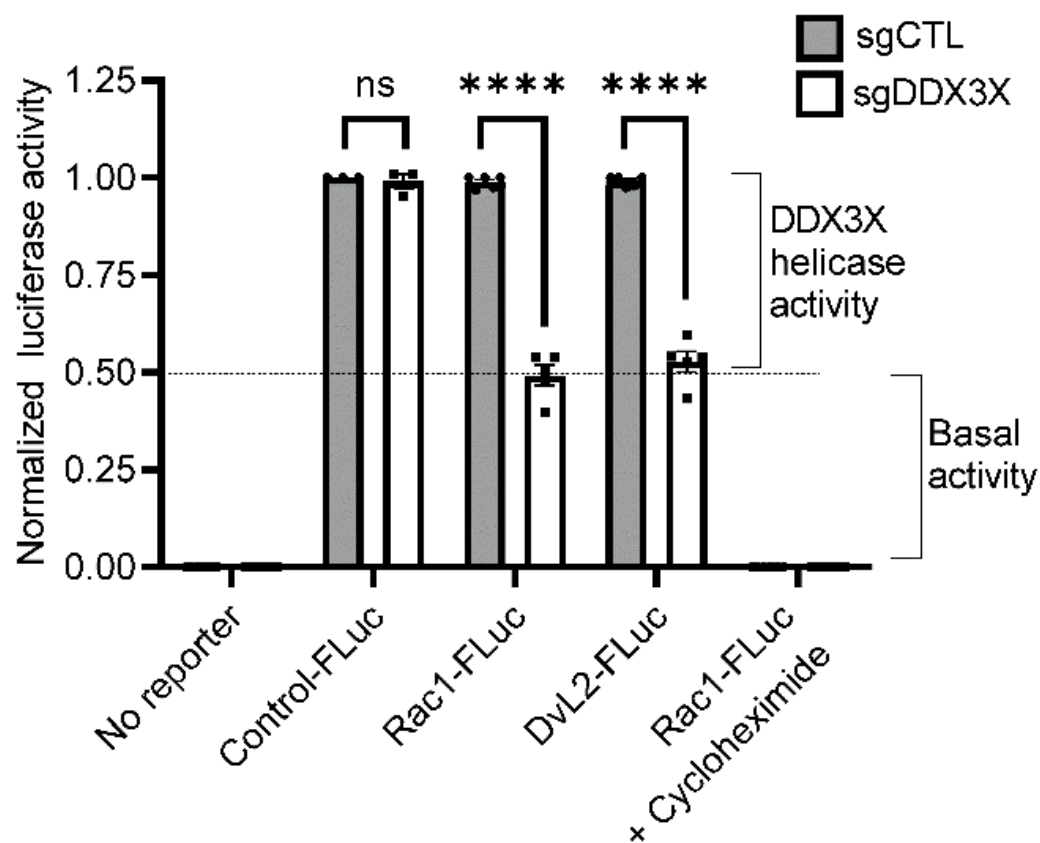
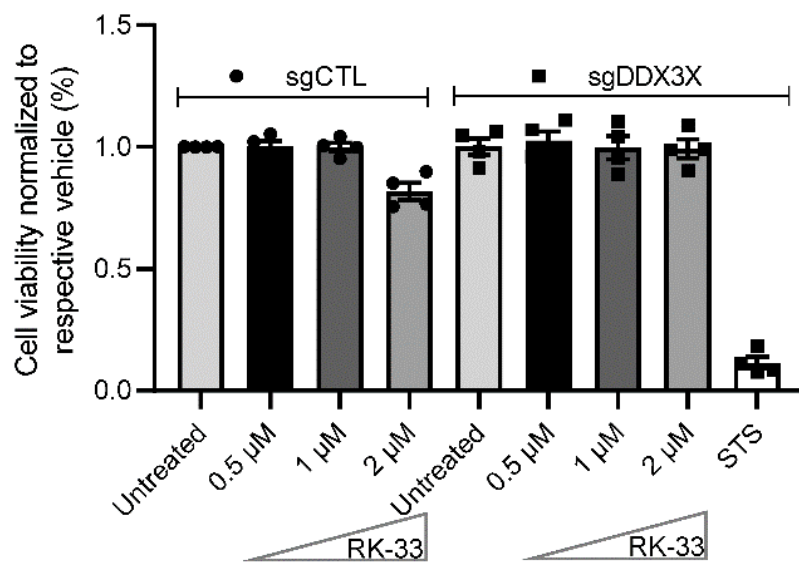
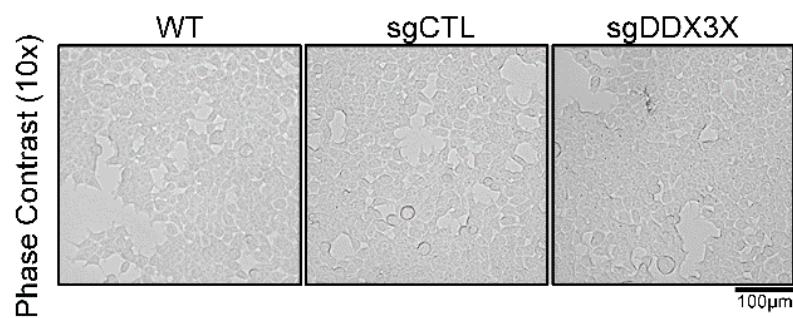


FIG. 5

(A)



(B)



(C)

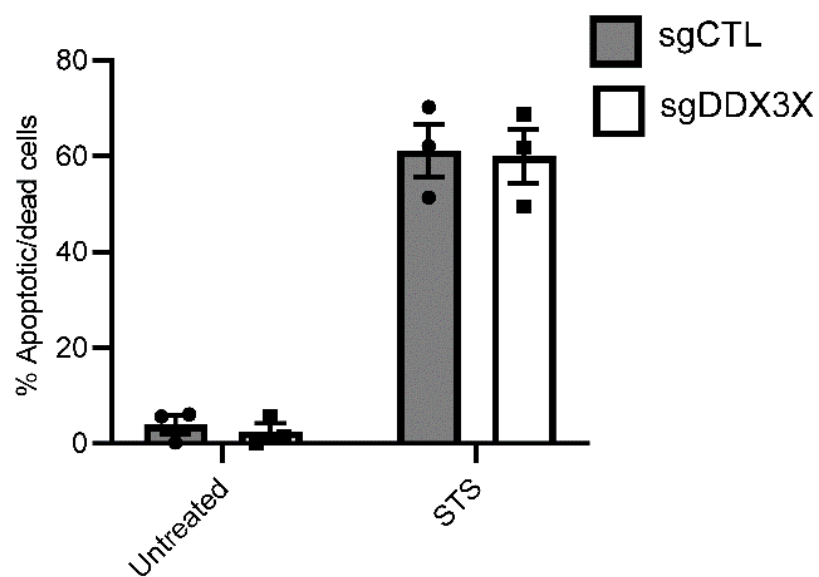


FIG. 6

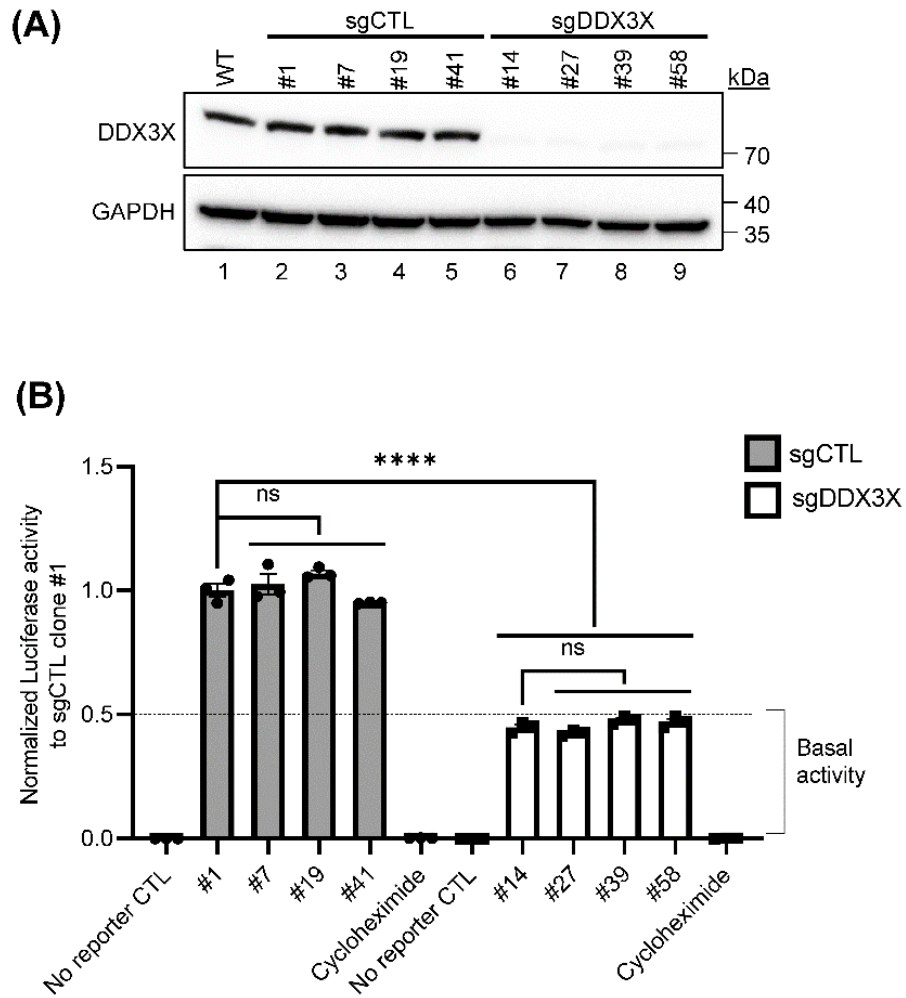


FIG. 7

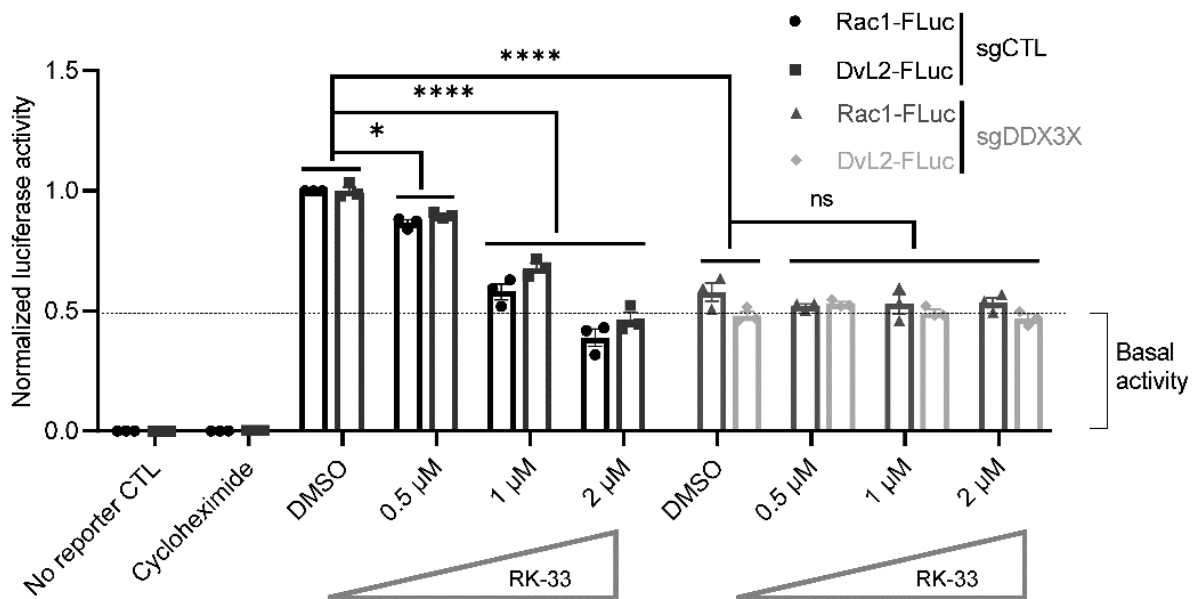


FIG. 8



FIG. 9

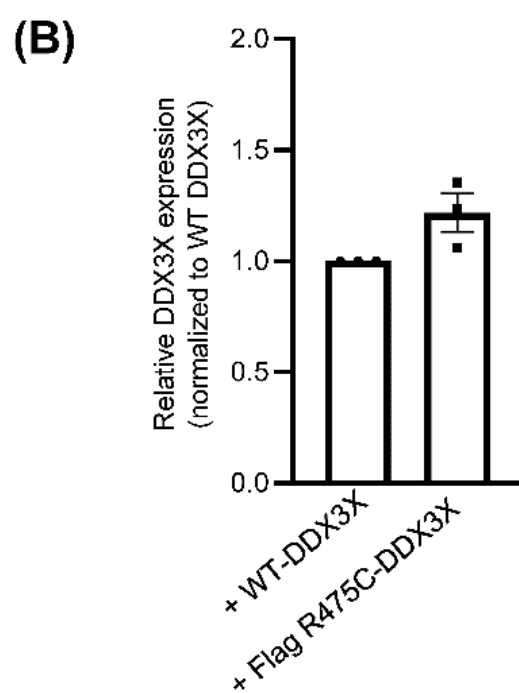
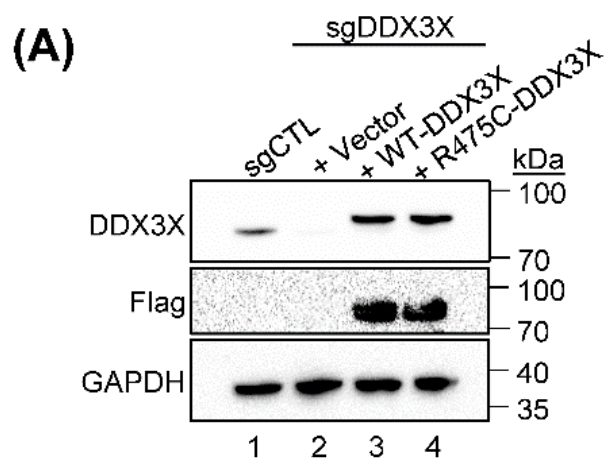


FIG. 10

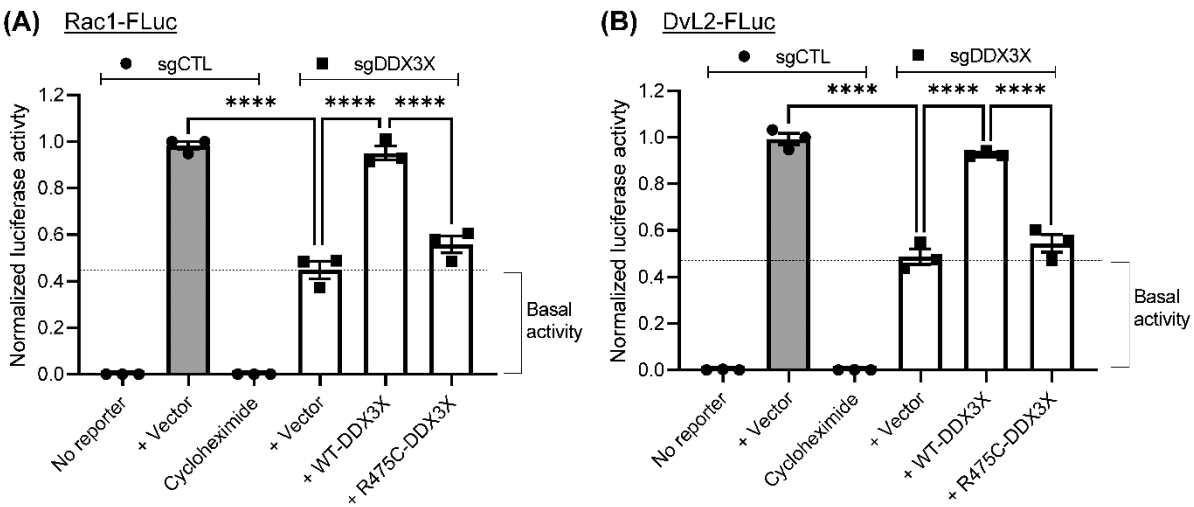


FIG. 11

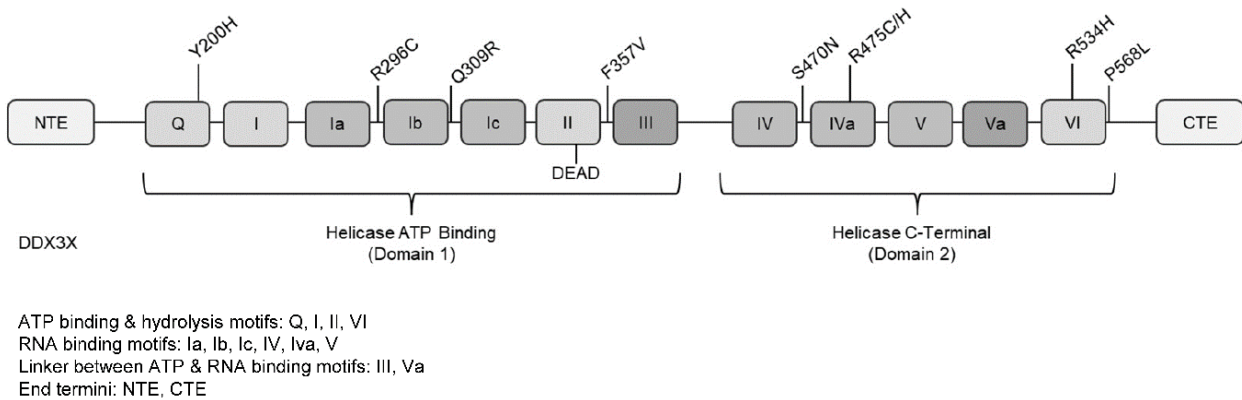


FIG. 12

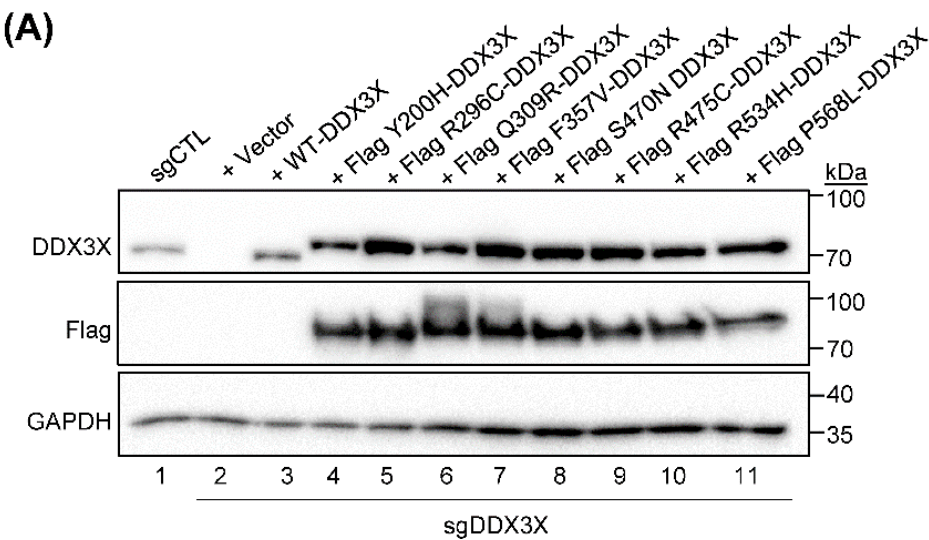


FIG. 13

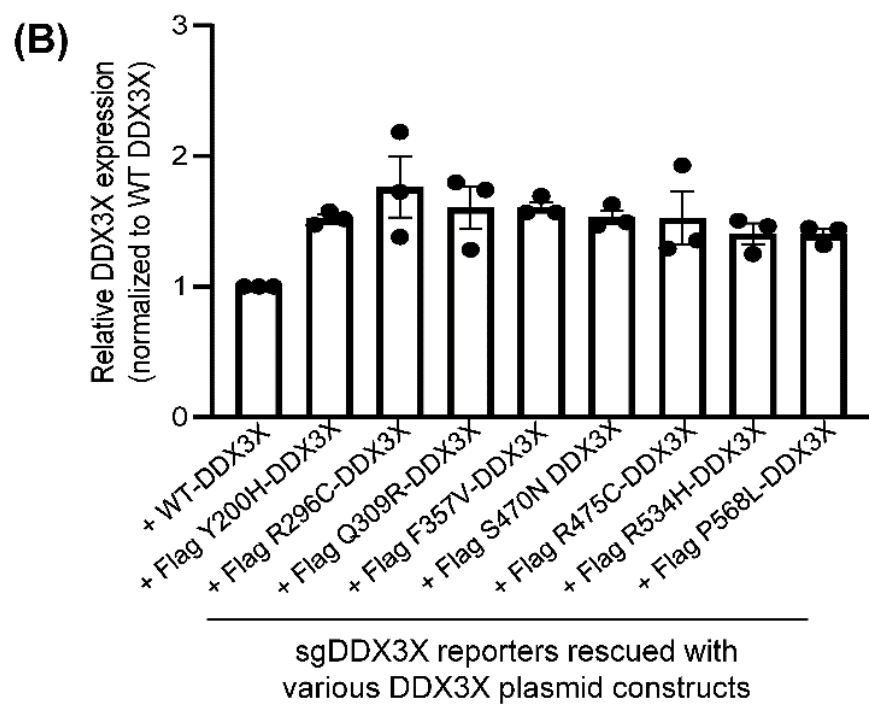


FIG. 13 (continued)

Rac1-FLuc

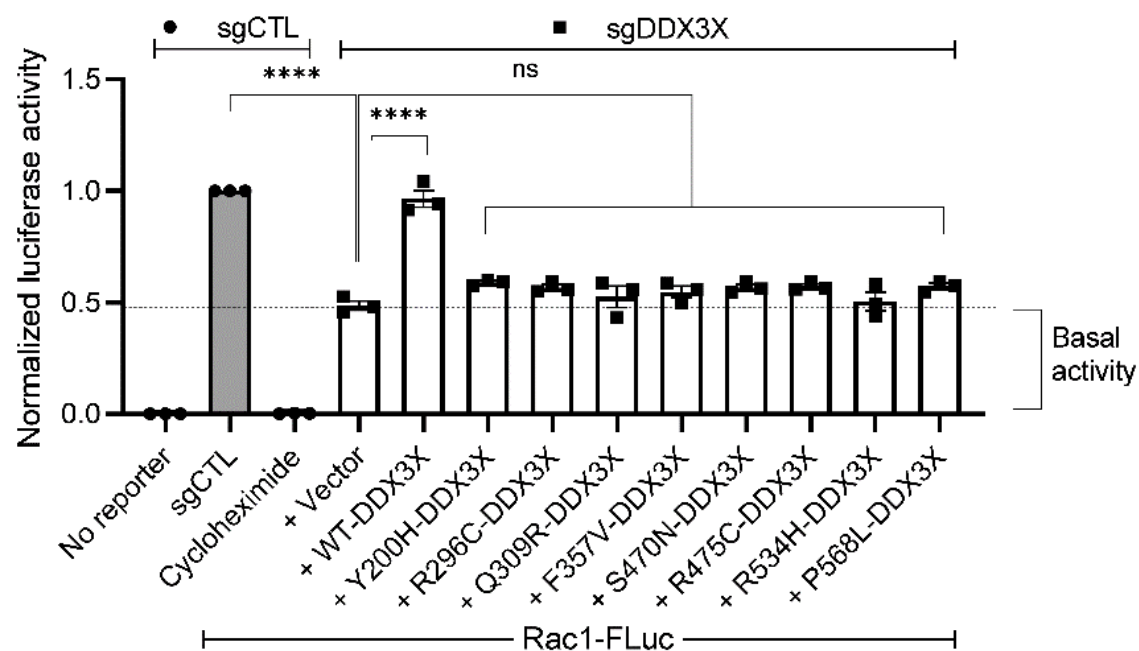


FIG. 14

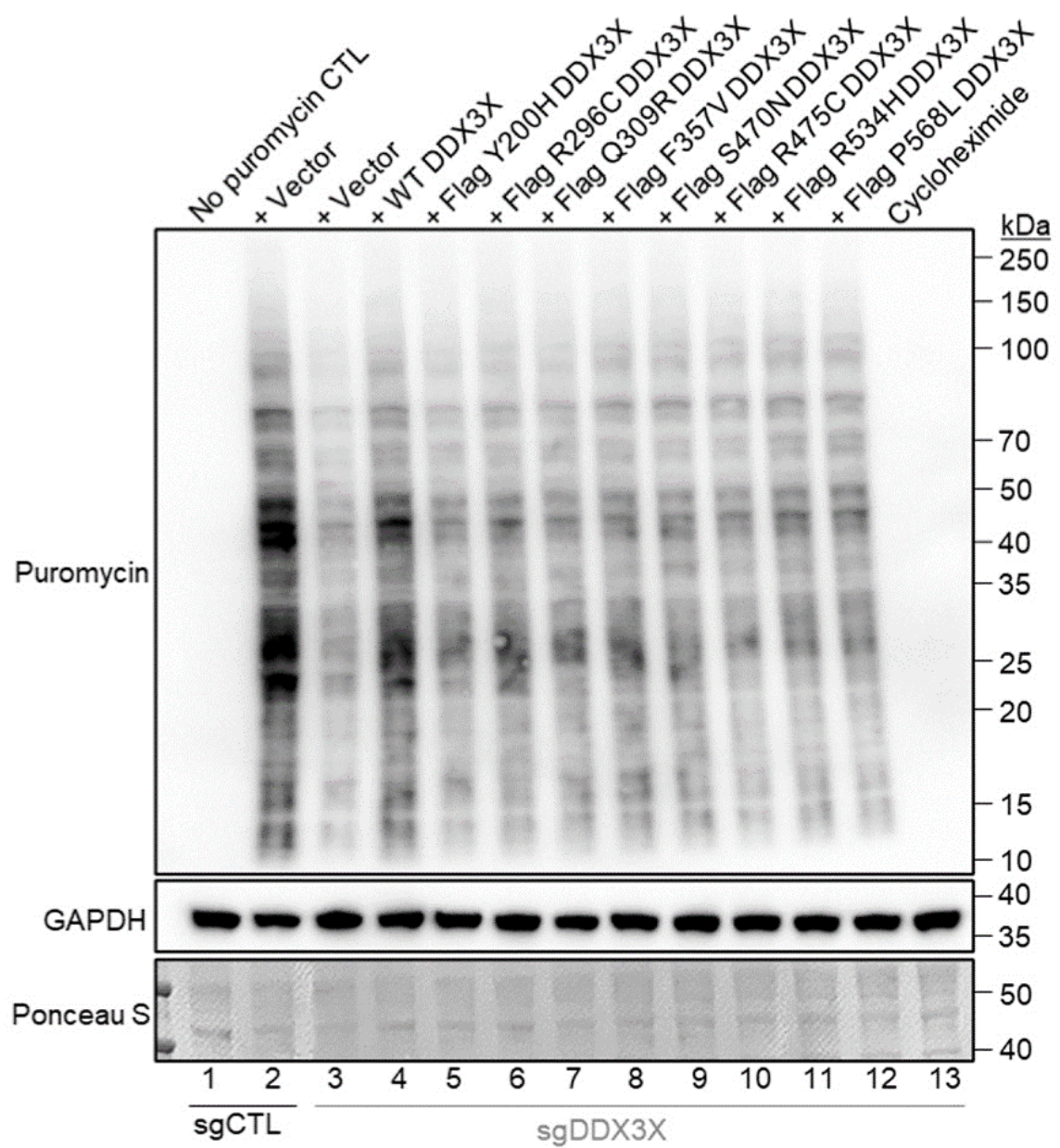


FIG. 15

U2932 DLBCL cells

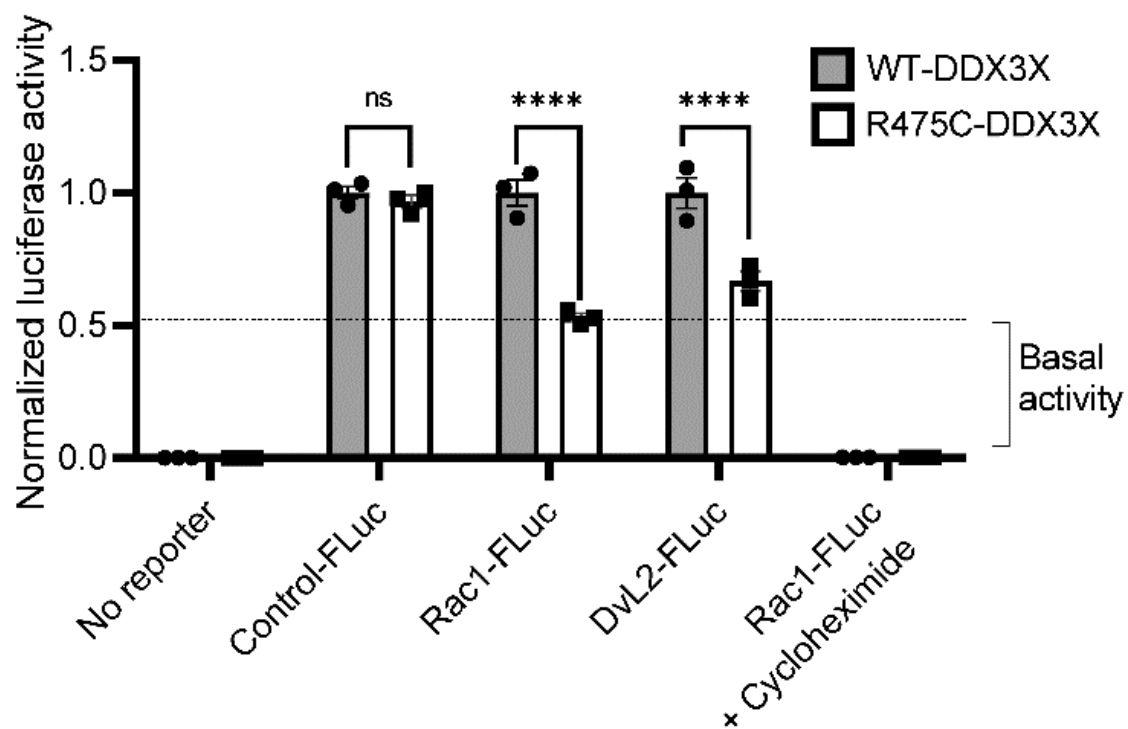


FIG. 16

(A)

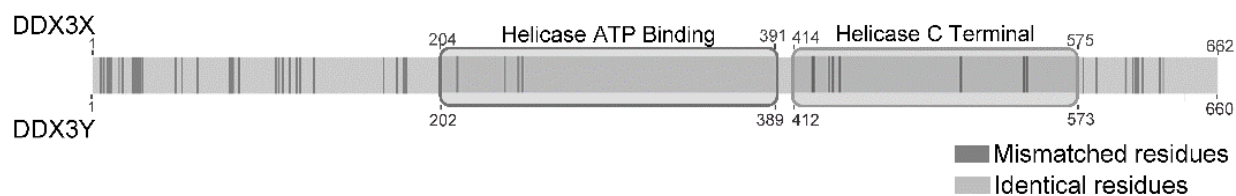


FIG. 17

(B)

```
DDX3X 1 MSHVAVENALGLDQQFAGLDLNSSDNQSGGSTASKGRYIPPHLRNREATKGFYDKDSSGW
DDX3Y 1 MSHVVVKNDPELDQQLANLDLNSEKQSGGASTASKGRYIPPHLRNREASKGFHDKDSSGW

DDX3X 61 SSSKDKDAYSSFGSRSDSRGKSSFFSDRSGSGRGRFDDRGRSDYDGI GSRGDRSGFGKFE
DDX3Y 61 SCSKDKDAYSSFGSR-DSRGKPGYFSE RSGSGRGRFDDRGRSDYDGI GNR-ERPGFGRFE

DDX3X 121 RGGNSRWCDSDEDDWSKPLPPSERLEQELFSGGNTGINFEKYDDI PVEATGNNCPPHIE
DDX3Y 119 RSGHSRWCDSVEDDWSKPLPPSERLEQELFSGGNTGINFEKYDDI PVEATGSNCPPHIE

DDX3X 181 SFSDVEMGEIIMGNIELTRYTRPTFVQKHAIPIIKEKRDLMACAQTGSGKTA AFLLPILS
DDX3Y 179 NFSIDMGEIIMGNIELTRYTRPTFVQKHAIPIIKGKRDLMACAQTGSGKTA AFLLPILS

DDX3X 241 QIYSDGPGEALRAMKENG RYGRRKQYPISLVLA PTRELAVQIYEEARKFSYRSRVRPCVV
DDX3Y 239 QIYTDGPGEALKAVKENG RYGRRKQYPISLVLA PTRELAVQIYEEARKFSYRSRVRPCVV

DDX3X 301 YGGADIGQQTRDLERGCHLLVATPGRLVDMMERGKIGLDFCKYLV LDEADRMLDMGFEPQ
DDX3Y 299 YGGADIGQQTRDLERGCHLLVATPGRLVDMMERGKIGLDFCKYLV LDEADRMLDMGFEPQ
Nucleotide binding domains
DDX3X 361 IRRIVEQDTMPKGV RHTMMFSATFPKEIQMLARDFLDEYIFLAVGRVGSTSENITQKV V
DDX3Y 359 IRRIVEQDTMPKGV RHTMMFSATFPKEIQMLARDFLDEYIFLAVGRVGSTSENITQKV V

DDX3X 421 WVEESDKRSFLDLLNATGKDSLTLVFVETKKGADSLED FLYHEGYACTSIHGDRSQDR
DDX3Y 419 WVEDLDKRSFLDILGATGSDSLTLVFVETKKGADSLED FLYHEGYACTSIHGDRSQDR

DDX3X 481 EEALHQFRSGKSPILVATAVAARGLDISNVKHVINFDLPSDIEEYVHRIGRTGRVGNLGL
DDX3Y 479 EEALHQFRSGKSPILVATAVAARGLDISNVRHVINFDLPSDIEEYVHRIGRTGRVGNLGL

DDX3X 541 ATSFFNERNINITKDLLDLLVEAKQEVPSWLENMAYEH HYGSSRGRSKSSRFSGGFGAR
DDX3Y 539 ATSFFNEKNMNITKDLLDLLVEAKQEVPSWLENMAYEH HYGSSRGRSKSNRFSGGFGAR

DDX3X 601 DYRQSSGASSSSFS SRASSRSGGGGHGSSRGFGGGGYGGFYNSDGYGNYNSQGV DWW
DDX3Y 599 DYRQSSGSSSSGFASRGSSRSGGGGYGNSRGFGGGGYGGFYNSDGYGNYNSQGV DWW

DDX3X 661 GN
DDX3Y 659 GN
```

FIG. 17 (continued)

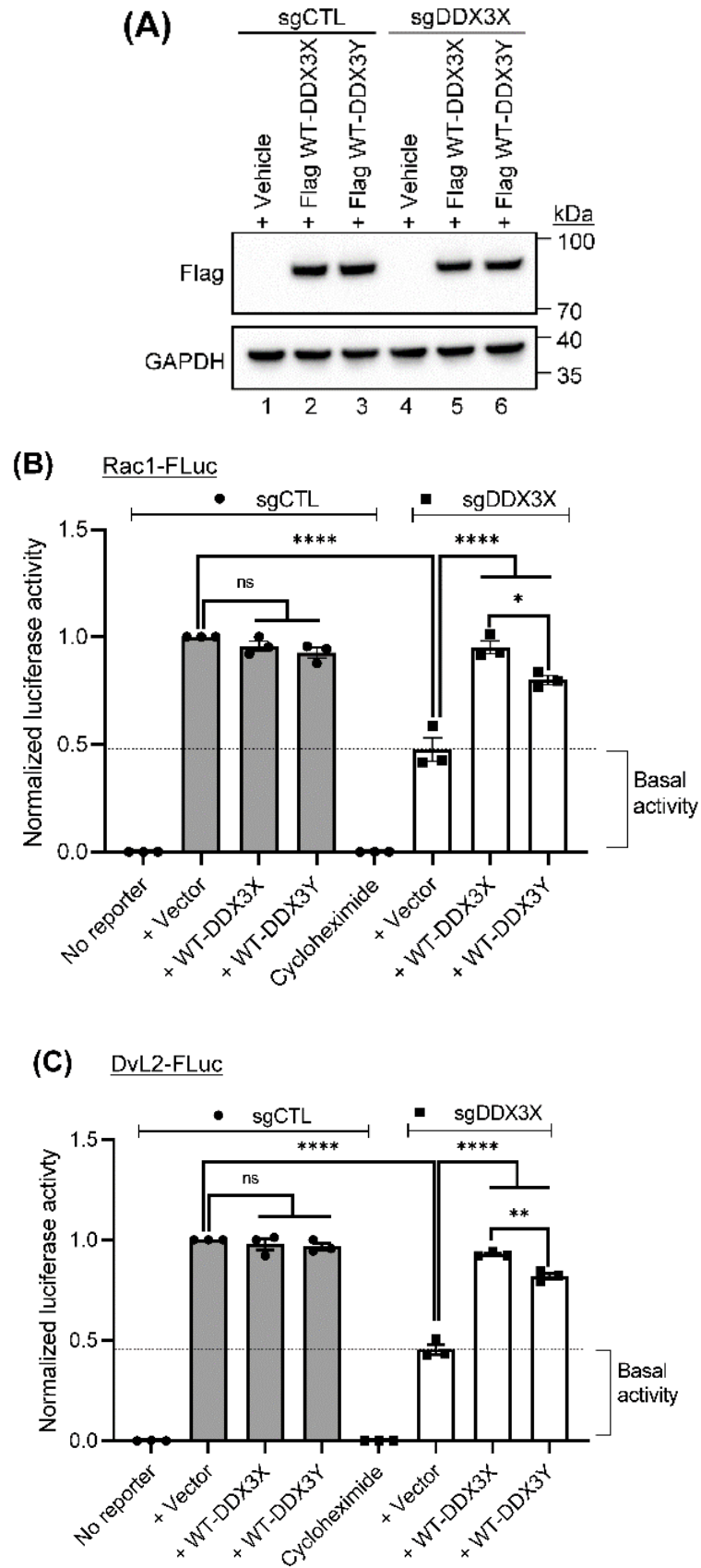


FIG. 18

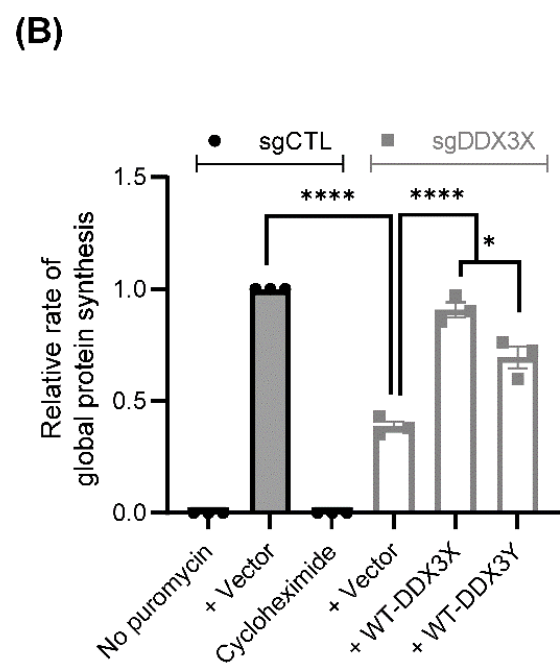
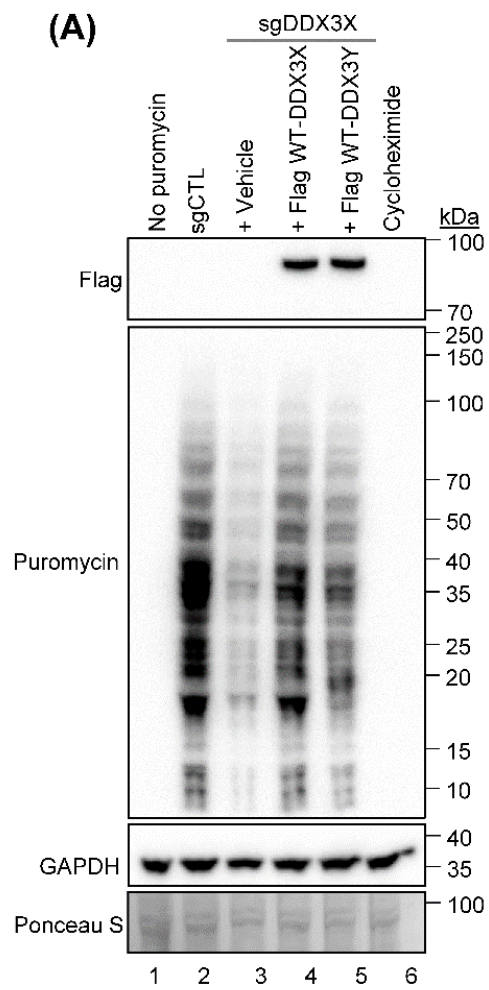


FIG. 19

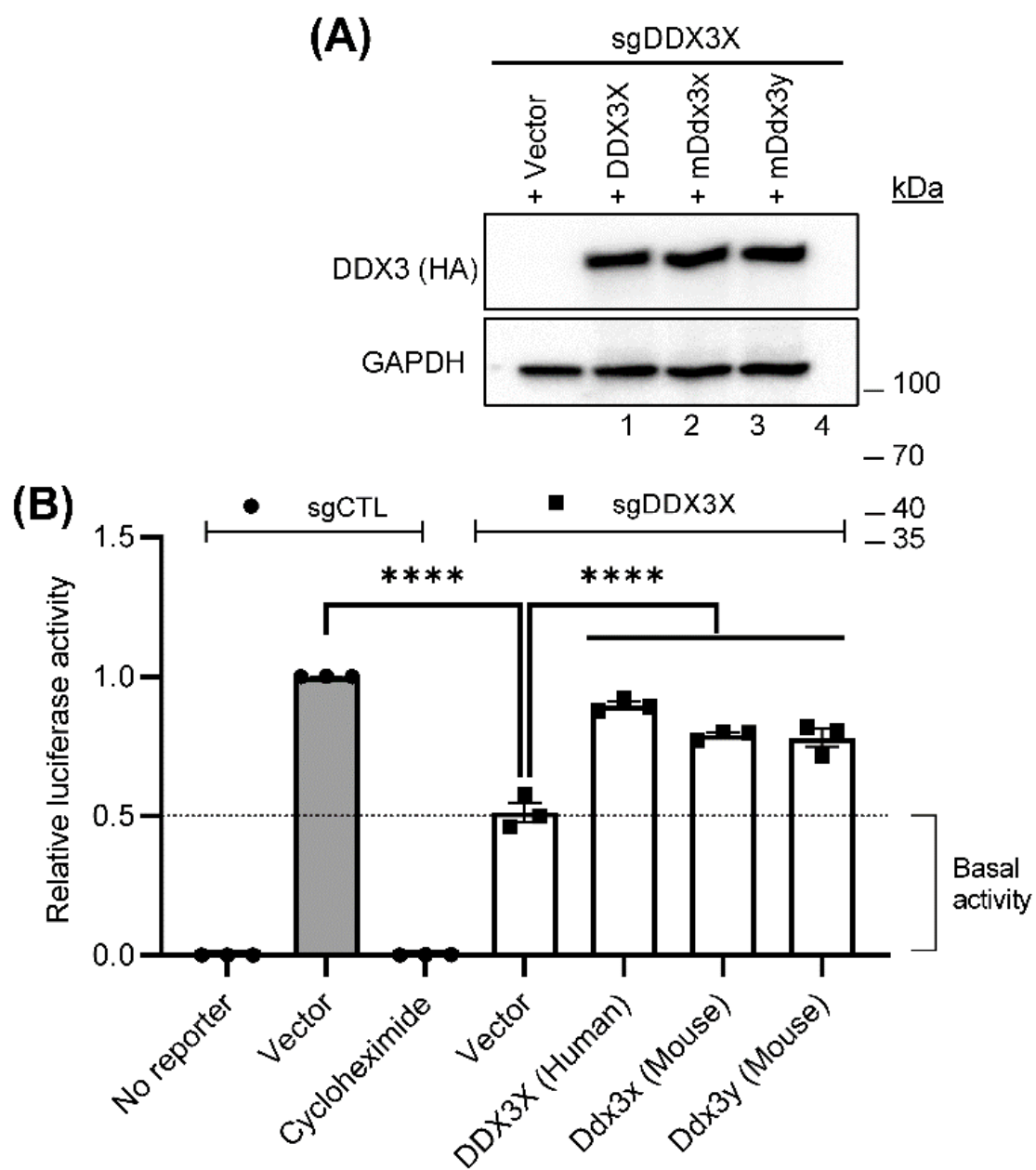


FIG. 20

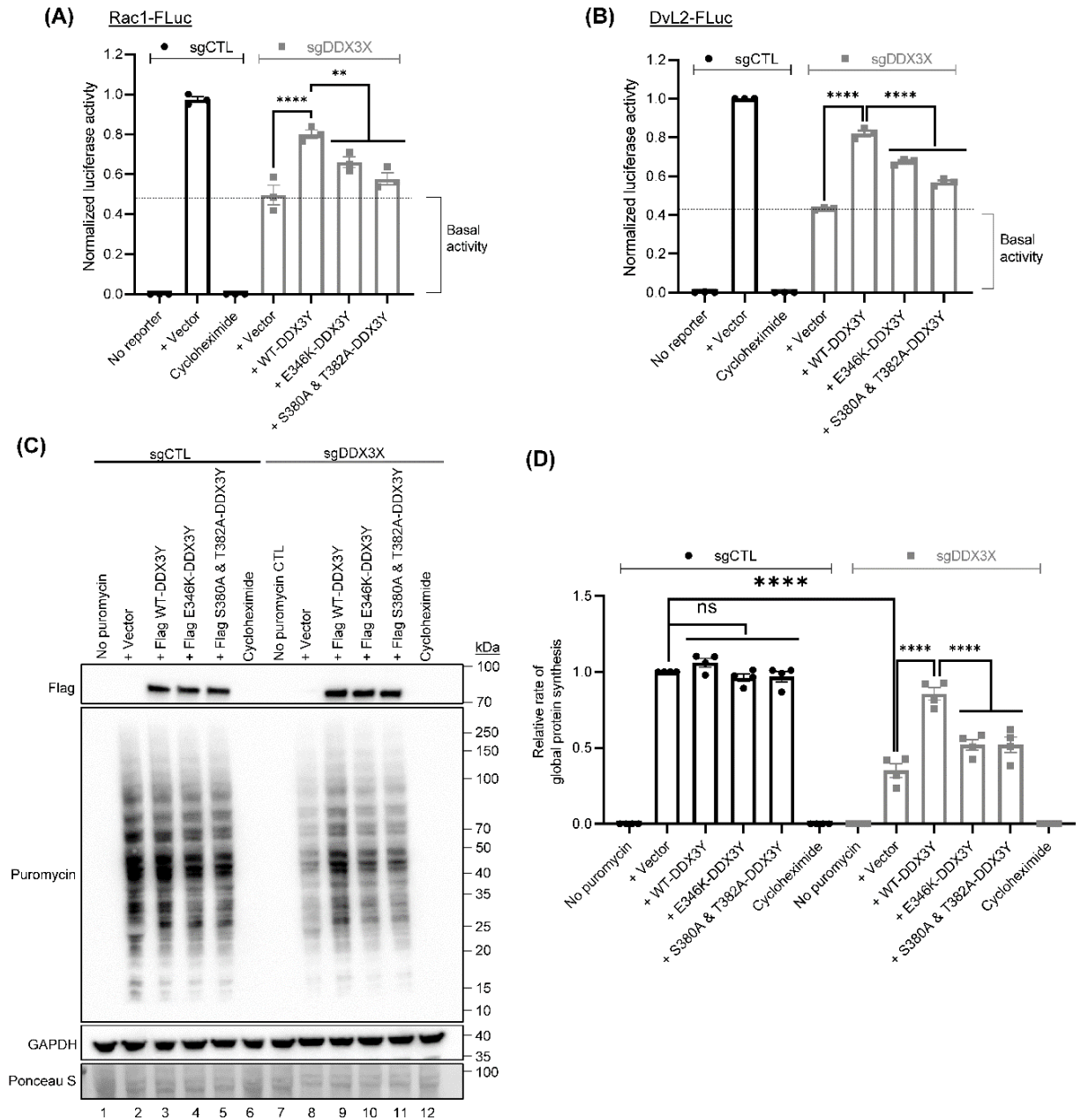


FIG. 21

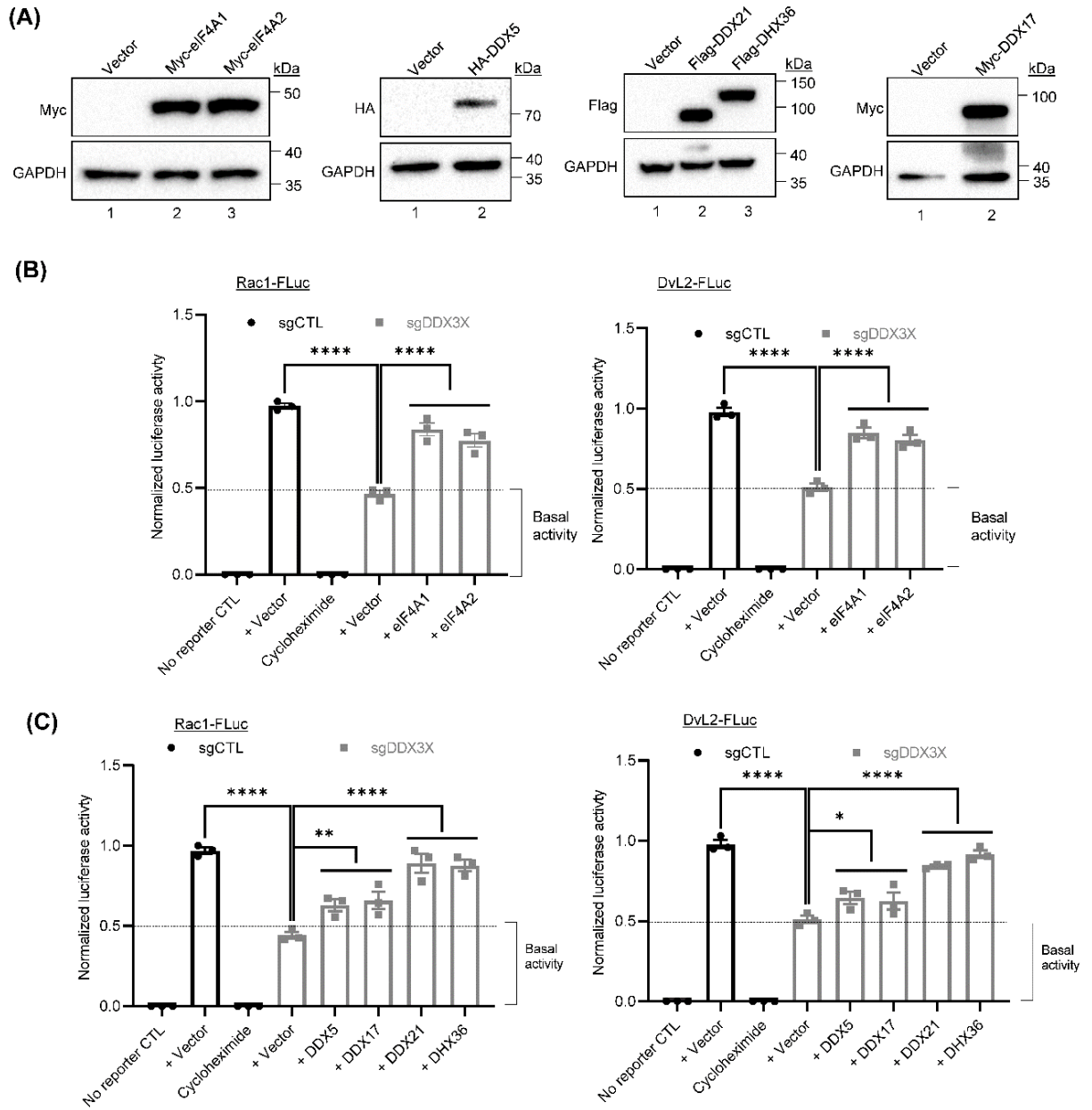


FIG. 22

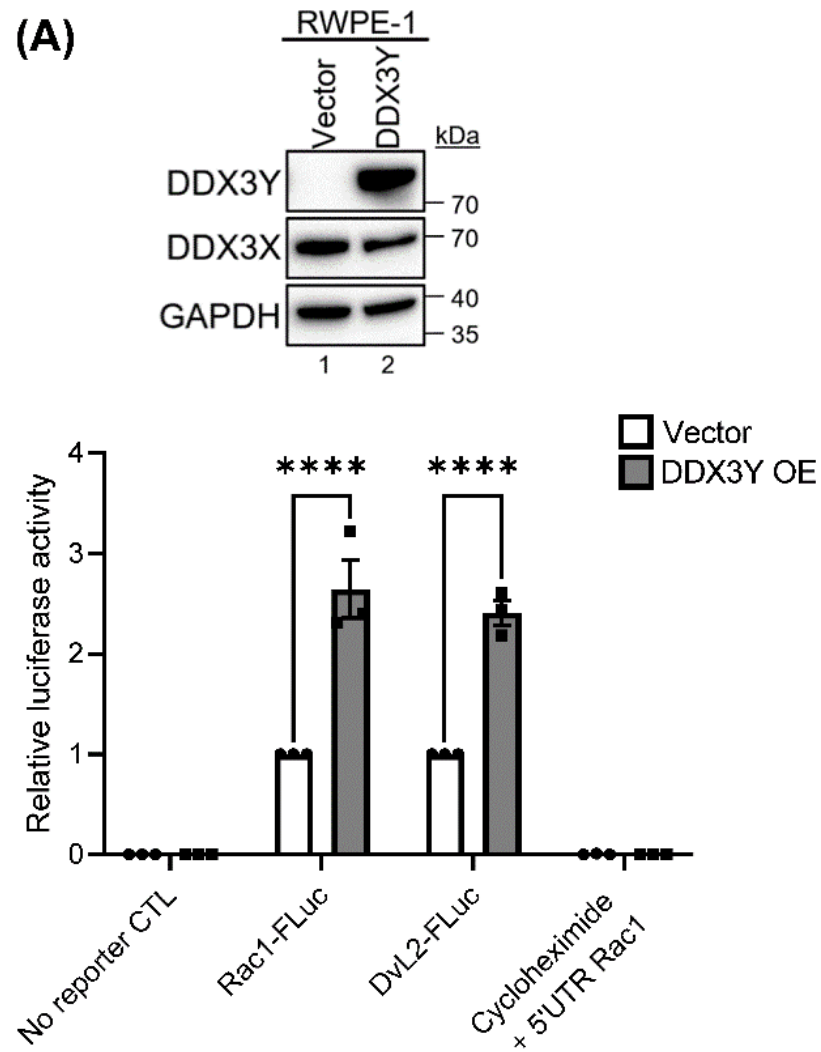


FIG. 23

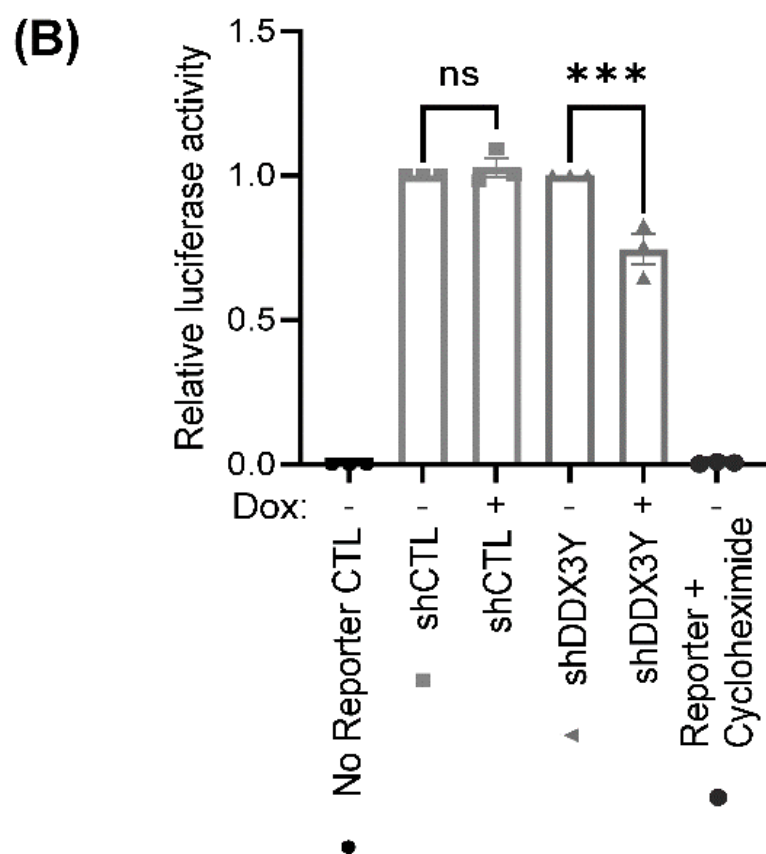
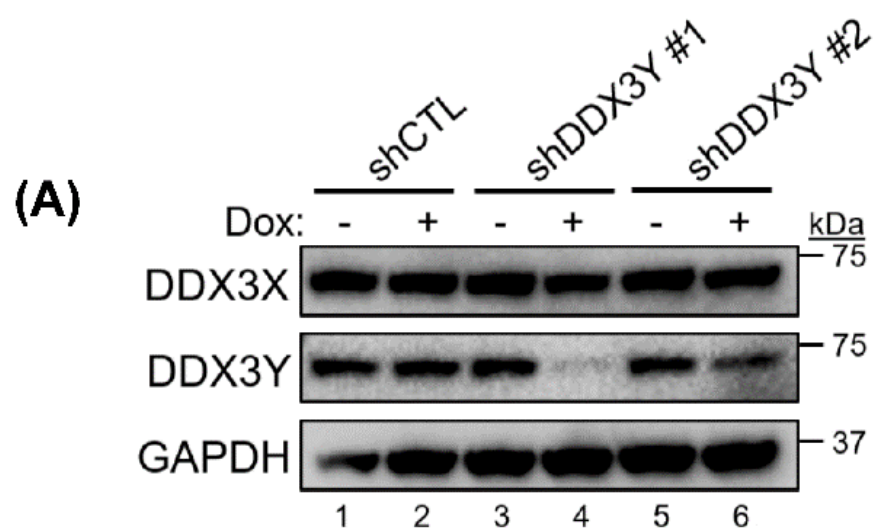


FIG. 24