

Supplemental Figure Legends

Fig. S1. Identification of RanBP5 as interacting protein via mass spectrometry, and Stx3 constructs. (A) Table showing RanBP5 tryptic-digested peptides co-immunoprecipitated with Stx3. Peptides identified by LC-MS/MS.

Fig. S2. Confirmation of binding to candidate co-activator proteins. GST-Stx3S and Gal4 or Gal4-candidate protein were co-expressed in HEK293T cells and lysates subjected to precipitation via glutathione-coated sepharose. Lysates and bead precipitates were subjected to SDS-PAGE and immunoblotted for Gal4 or GST.

Fig. S3. Candidate shRNA oligonucleotides. (A) Alignment of the exon 9 - exon 11 junction with candidate shRNA oligonucleotides. Each oligonucleotide is 21bp long and predicted to silence Stx3S specifically. **(B)** Immunoprecipitation and immunoblot of HEK293T cells transduced with lentivirus delivering candidate shRNA oligo as indicated.

Fig. S4. Cleaved Caspase-3 staining. (A) Representative immunocytochemistry images of 5-day cultures of SCR or Stx3S KD Caco2 cells stained for cleaved Caspase-3 (green) and DAPI (blue). Scale bar 20 μ m. **(B)** Cleaved Caspase-3 quantification positive proportion for SCR and Stx3S KD cells. Bars represent the means and SEM of quadruplicate samples.

Sequence position	m/z	Peptide sequence
45-53	538.61	ITFLLQAIR
63-70	459.75	QMAAVLLR
111-121	630.81	KICDIAELAR
112-121	567.08	ICDIAELAR
242-252	587.25	SLVEIADTVPK
420-439	722.32	YAACNAVGMQTDFFPGFQK
445-460	902.35	VIALLOTMEDQGNQR
500-506	436.65	LQELIQK
560-573	737.95	TIECISLIGLAVGK
682-693	717.07	STACQMLVCYAK
697-708	715.34	EGFVEYTEQVVK
759-778	716.96	AIGTEPDSVDLSEIMHSFAK
965-985	612.92	TKENVNATENCISAVGK

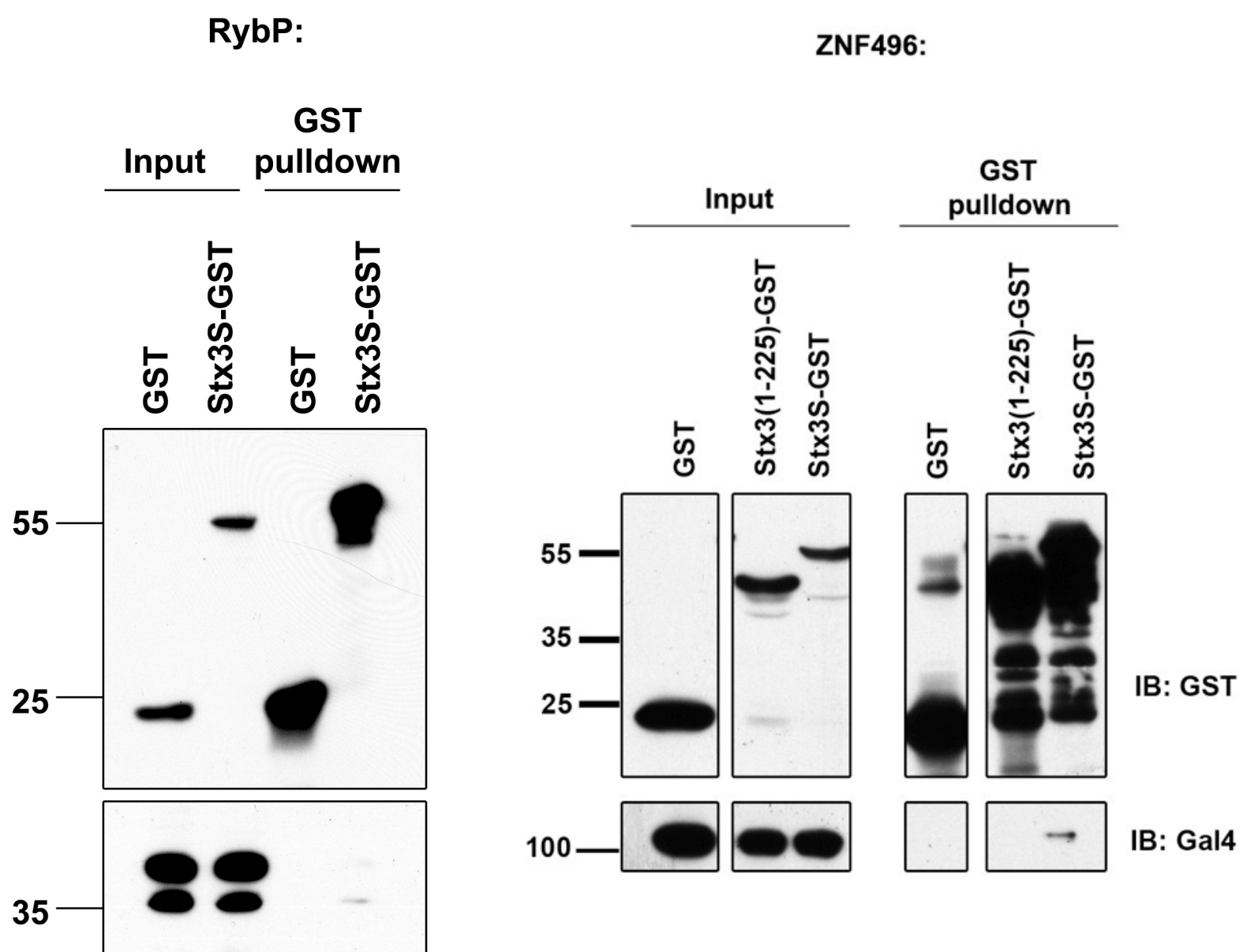
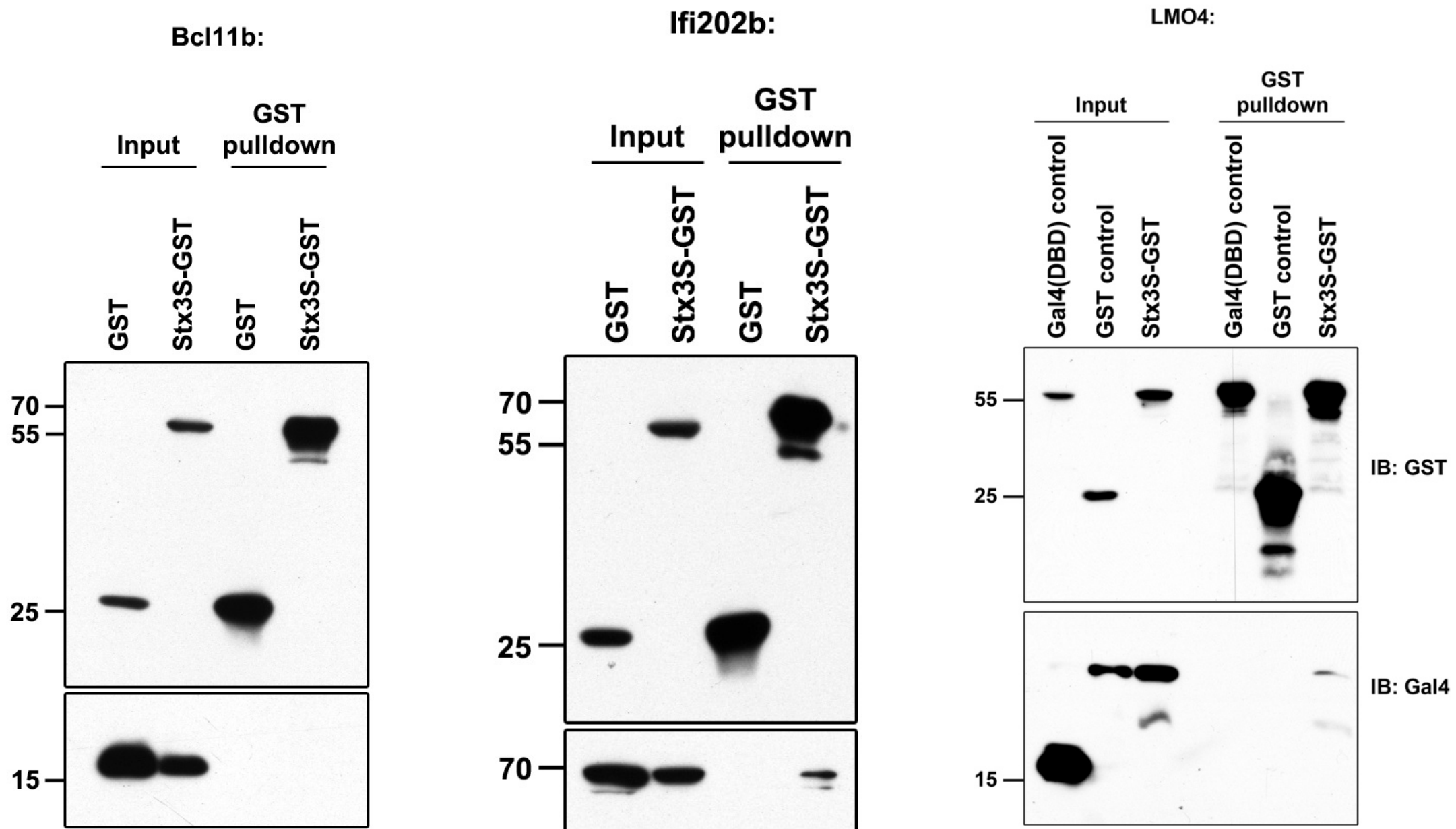


Fig. S2

A

	exon 9/exon 11		
757	786	787	834
GCTGTGAAATACCAGAGTCAGGCCCGGAAGAACTGATTTCACTCCAGACTGGTGTGGCCACCCTTGTCTTCAGATGA			
	C1	GCCCGGAAGAACTGATTTCA	
	C2	CCGGAAGAACTGATTTCACT	
	C3		GCCACCCTTGTCTTCAGATGA
	C4	GGAAGAACTGATTTCACTCC	
	C5	CAGGCCCGGAAGAACTGATT	

B

