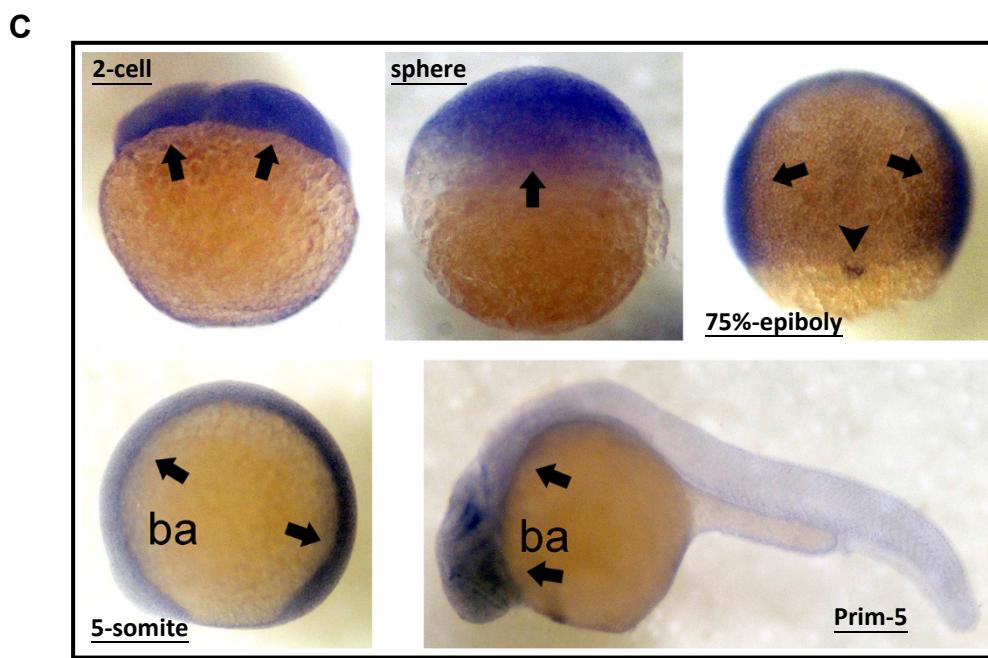
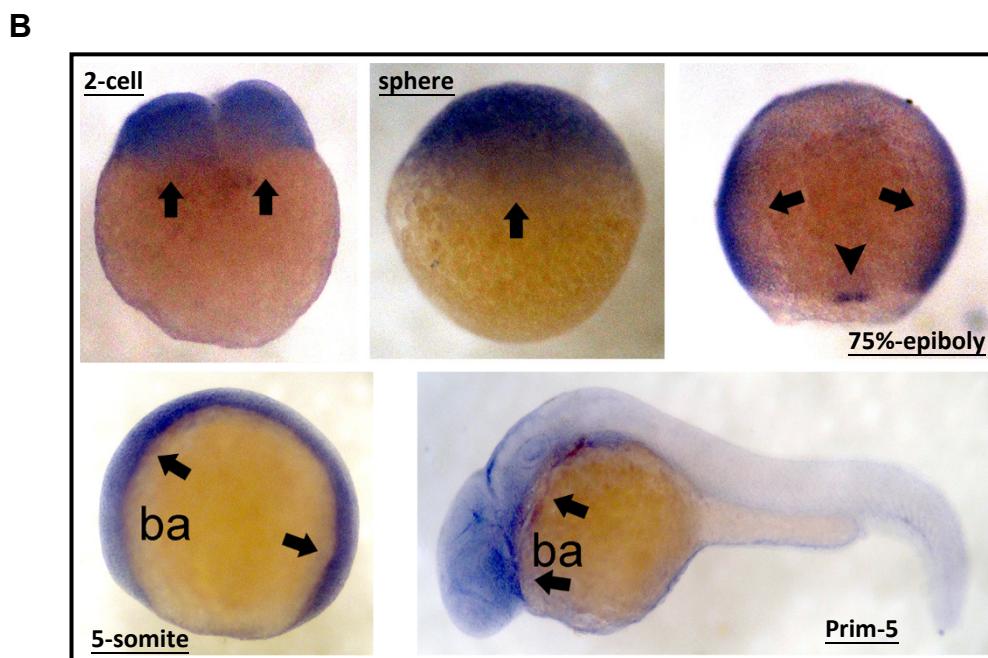
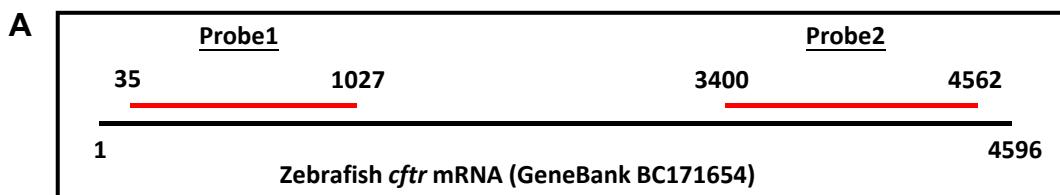


A

Human	MQRSEIPEPSVVKLPEWIRPIDIKEYRQREIISDIYQIFPSVSDADNISRDEEDWDRDAS	KRQHQLINPLPQCFEWREMFYIGISLYLGEVTRAVQPDLLGRIIASY	109
Zebrafish	MQRSEIPEPPINCLSYTPEWVNIPMRAKETKEKWRPSDQPAADNPRLPQDWDRVASGHKQFPLPMPRCYIKRPLLGEFLVIGEPTKVQPDLLGRIIASF	110	
Human	DIDWKEDPSIAINLGIGCLLFATVLLHPAFGLHHGMQDRIAFS	TYKKTLKLSSRVLDKIS	217
Zebrafish	DAHEHEBRANGYHLAGHGLLPTAPFLLIQPMGLRHGMQDRIAFS	TYKKTLKLSSRVLDKISTEQLVLSMPEANLGFQIQAISGMAHFWIPIQCDCTGLIWE	220
Human	DLQASPFCCIGFLIVLVALEQAGIGRMIMPRICRAGRRISE	RLVITSEMENIQSVKAYQNEFAMERNIDONPQD	327
Zebrafish	DLIVNSPQPLAAISIYGVLAQAFISHMGPKCKVLILTPRAITSEMENIQSVKAYQNEFAMERNIDONPQD	KLTRRAAYNRYNSSLDFFSGHFVVFLSVYHAL	330
Human	IRGILRLRFITIFSDPFLVLRMVTIROS	HWAVIWYISLGAIINKIQFICKCEYKILEYNTITB	437
Zebrafish	SGNGNLRIFTTTSYQWVIRMTVIROS	WVMEVIAFEGEGEGLFRKPAQNNRKTSINGEDSLFPRFESLG	438
Human	IEVLIKEDINERIERGQNLAWGSGIGGKISLILWVNGELDPS	SGKDHSGRSIFCSFSWMPGTIREN	547
Zebrafish	PVFLKDINSPLKRGGENLAWGSGIGGKISLILWVNGELDPS	SGSGMHSGRISYSQTAWMPGTIREN	548
Human	LSGGCARISLARAVYRACADYLILSPFGYLVITEREIF	ESCVCKLMAKTRILVSRHEHLRGA	657
Zebrafish	LSGGCARVALARAVYRACADYLILSPFTLIEPTEKEIFDKCICLMAKTRILVSRHEHLRGA	DKCICLMAKTRILVSRHEHLRGA	658
Human	RNSILITETLHESIEDGDPVSWIETKQSKFKTG..EECF	PRKRNNTPNHNSIRPFSIVKTELQMNG	764
Zebrafish	RNSILITETLHESVIDESPQPERSAFRQVPIPKMVILPRAKAVWVNPNLGVPPPSI	PPSDEPLEPRISLVEDQSEAIIPRISVISDEPTIQR	762
Human	RRQSVINLDTISVNQQNIERKTTASPRKSCAFQANI	ELDNYRRLSPEGLEISEEINEEBIRE	870
Zebrafish	RRQSVIAFPTINAQQQRREEIQSSFRRRISVVPQSE	ELDNYRRLSPEYDYGIGLDEEPNIA	870
Human	LPEVPSIVVLMWIG.....NFIQDGNSTSRNNNSVVI	STSSYYWYIYGVADTLLAMGFFRGLI	970
Zebrafish	AIEPAPSVAGIFITDELWREEHQRSPNNTPHSNASESGQTYA	WTSSYYIIYIYVATSESLLAMGFFRGLI	980
Human	GINRERSKDIDDDLPITIFDEPQDILIVIGRDAWAVLQPYIN	VTVEVIFMIDAYFICTSQQLKQLESGCRSPFPHIV	1080
Zebrafish	PRMRRTKDMTDDLPITIFDEPQDILIVIGRDAWAVLQPYIN	IVPLAIVFIDYMYFPHICQQLKQLETDPRSPFPHIV	1090
Human	ANLHTANWFLYLSTIRNFQMREIEMIFV	ITGEGGHGRGHIETILANMSHQWQNSDVS	1190
Zebrafish	ANLHTANWFLYLSTIRNFMLRADIIFV	PTLAMIAVGCNQDKHCEIGIGKCLAYHIC	1193
Human	MIENENSHVRKIDDWESGQQTIVRD	TKYIEGGNAIDFISFFISPGQRVGILGRTGSGRS	1300
Zebrafish	MIENENVAQPSWHRSGCIEVENNT	TKYIEGGNAIDFISSESGPQRVGILGRTGSGRS	1303
Human	RENLDPYECRSDIDPFPVADPVG	VIEQFICKLDLWVVGCGVLSEGHKQI	1410
Zebrafish	RENLDPYECRSDIDPFPVADPVG	CLARSLSQPPILLDEPSAHLDPVYQIIRRTHF	1413
Human	CQFIVIEENKPGROYDSIQKLLNPEL	FRKAISPSIDRVKLFHRNNSKCKSKPQIA...	1480
Zebrafish	CQFIMMDRKQKDYDICKLNLNT	HLKQIAISPAERKLFPRNNSMRTPSKLSSVQI	1487

B

Human	ALKEETIEEVQDTRL	1480
Zebrafish	TIQEEBAEDNIQDTRL	1487
PDZ-binding domain		



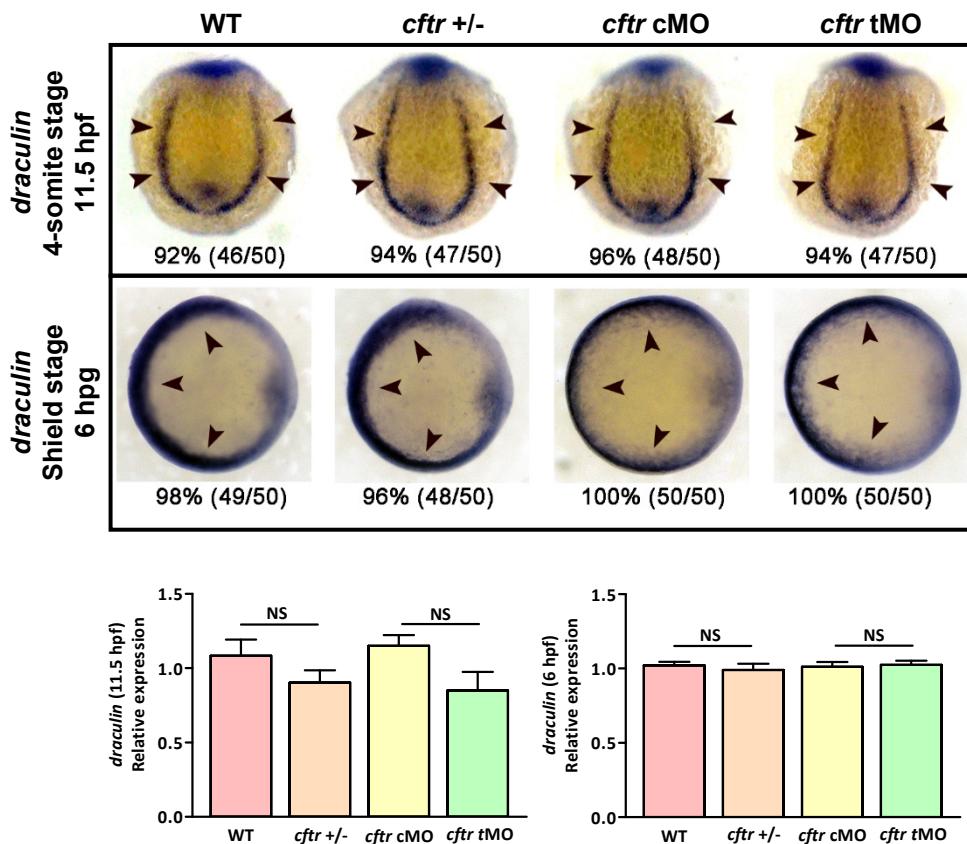
Supplementary figure 2

A

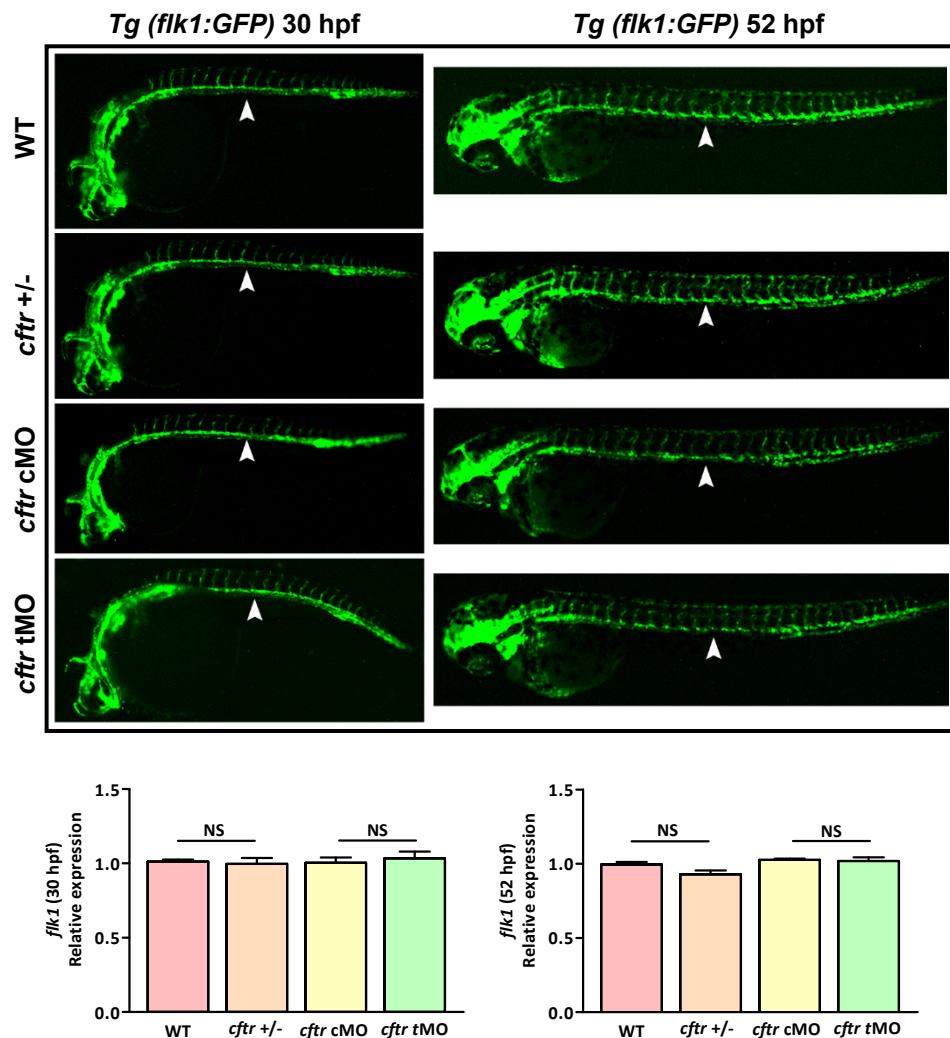
<i>cftr</i>	CCCATTTATATGGATATC	ACC	CACTGCAATGCATCCTGTG
<i>cftr mutant</i>	CCCATTTATATGGATATC..	CACTGCAATGCATCCTGTG	

B

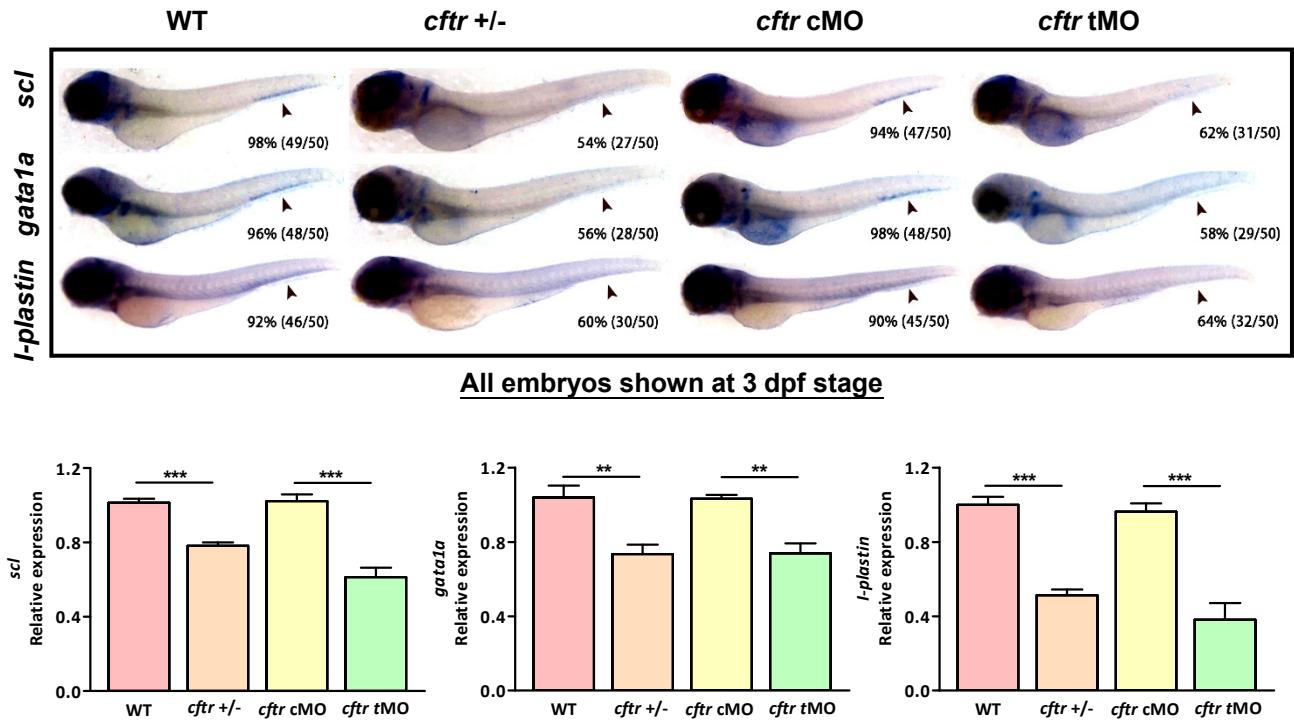
Cftr	181	LVSLMSANLGKFDQSLGMAHFIWISPLQCILCTGLIWELIDVNSFCALAAISLLGVLQAF
	
Cftr mutant	181	LVSLMSANLGKFDQSLGMAHFIWISTAMHPVYRAYLGTH



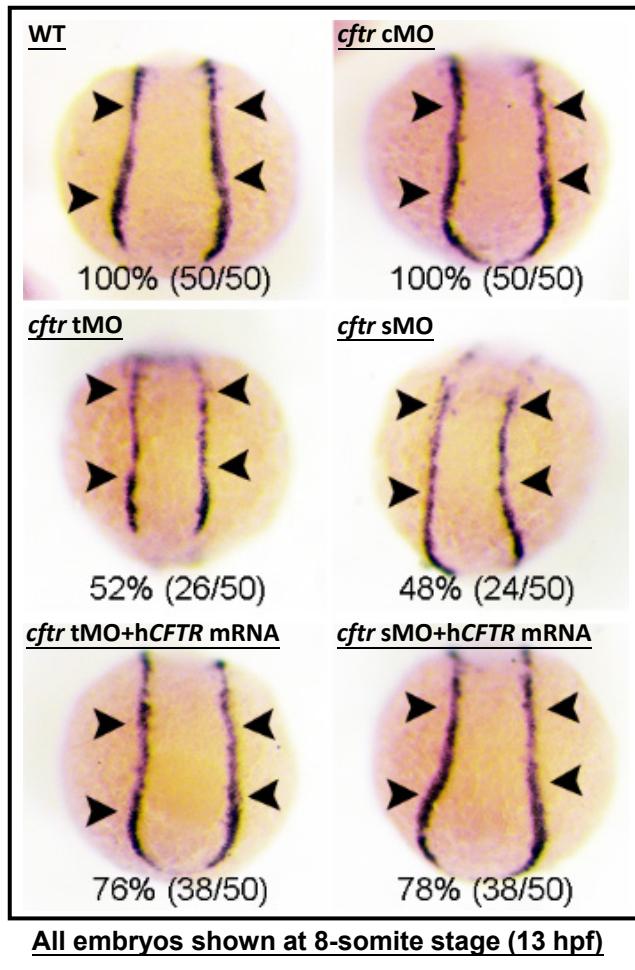
Supplementary figure 4



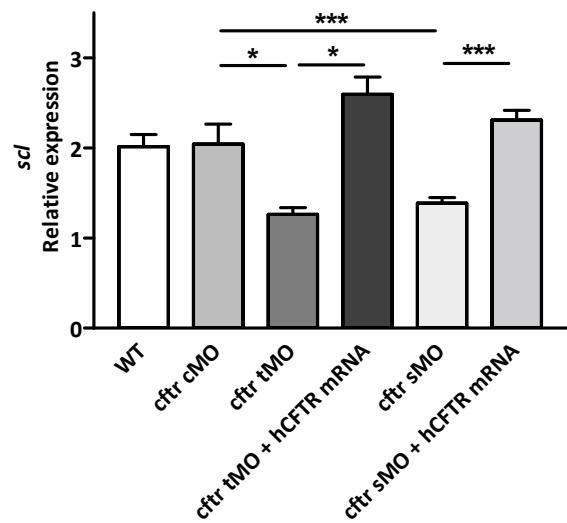
Supplementary figure 5



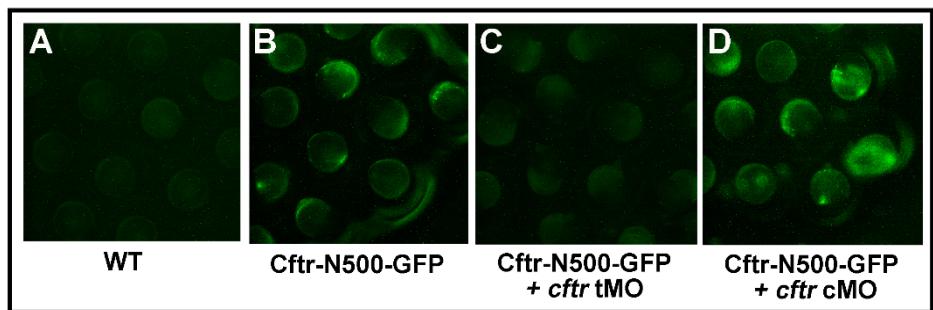
Supplementary figure 6



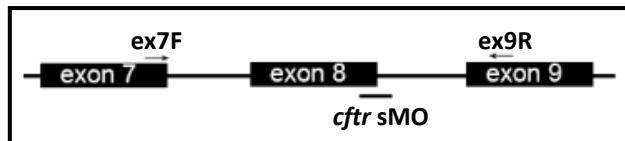
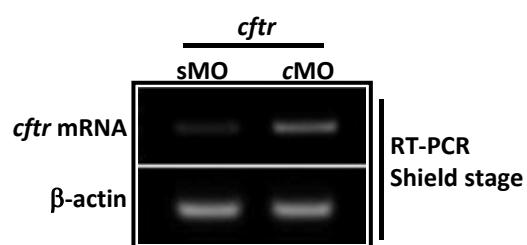
All embryos shown at 8-somite stage (13 hpf)



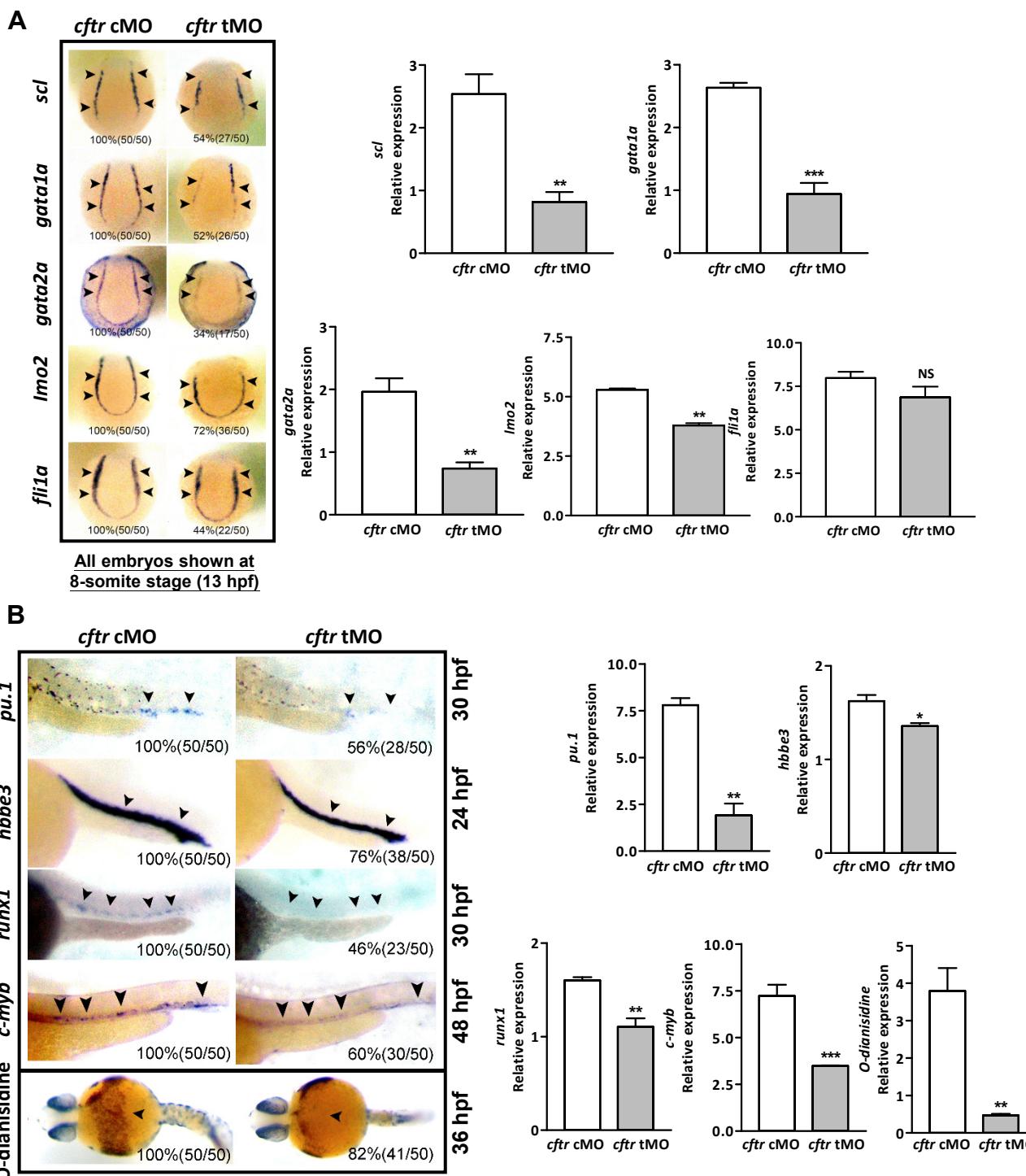
Supplementary figure 7



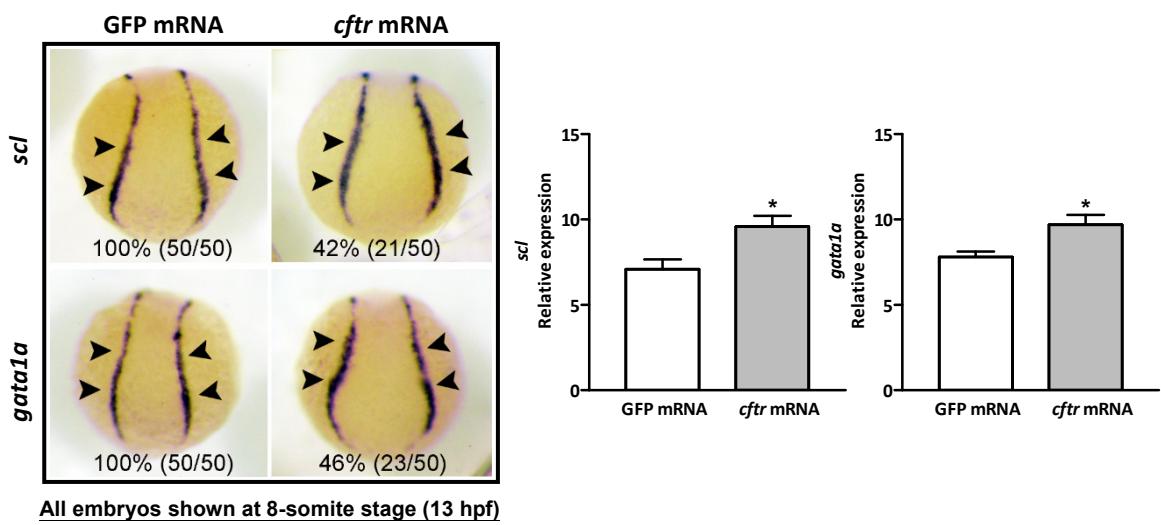
All embryos shown at 70%-epiboly stage (7.5 hpf)

A**B**

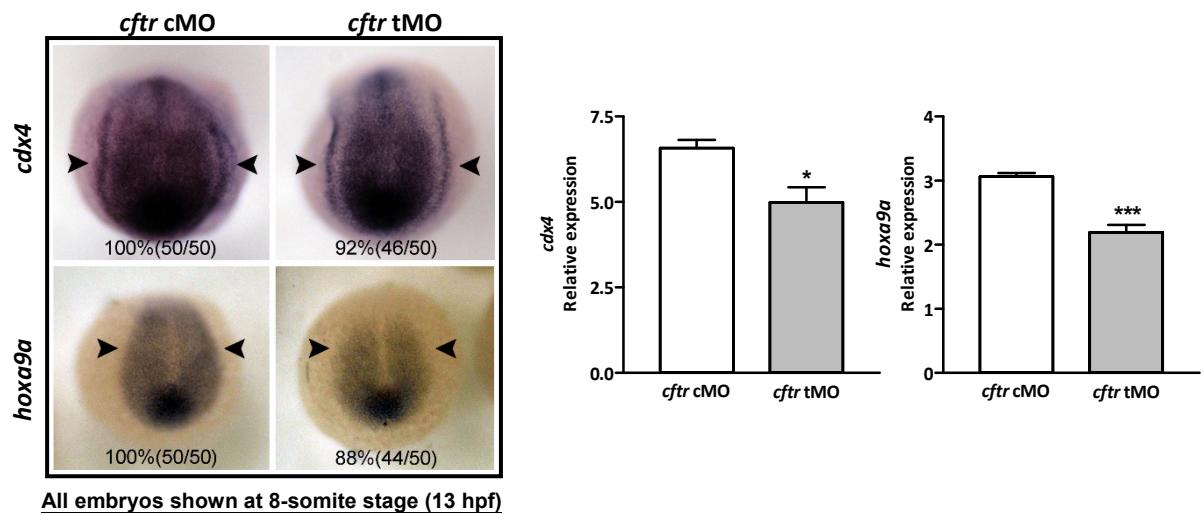
Supplementary figure 9



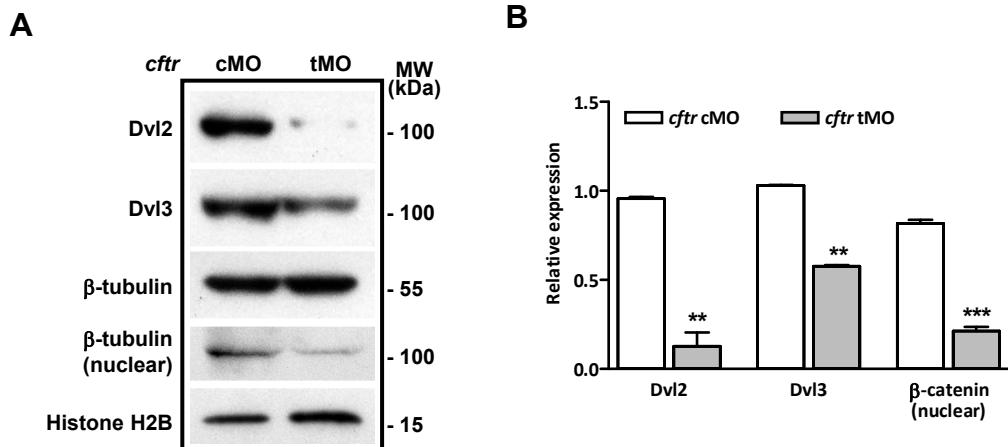
Supplementary figure 10



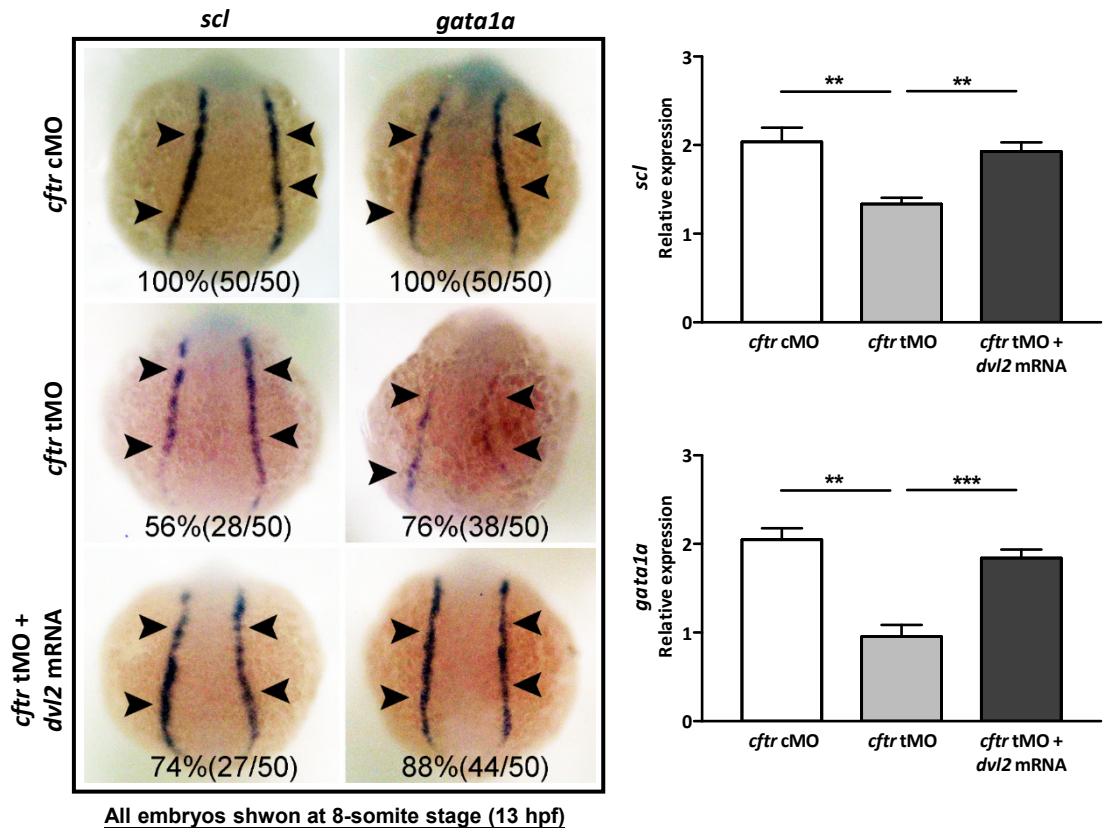
Supplementary figure 11



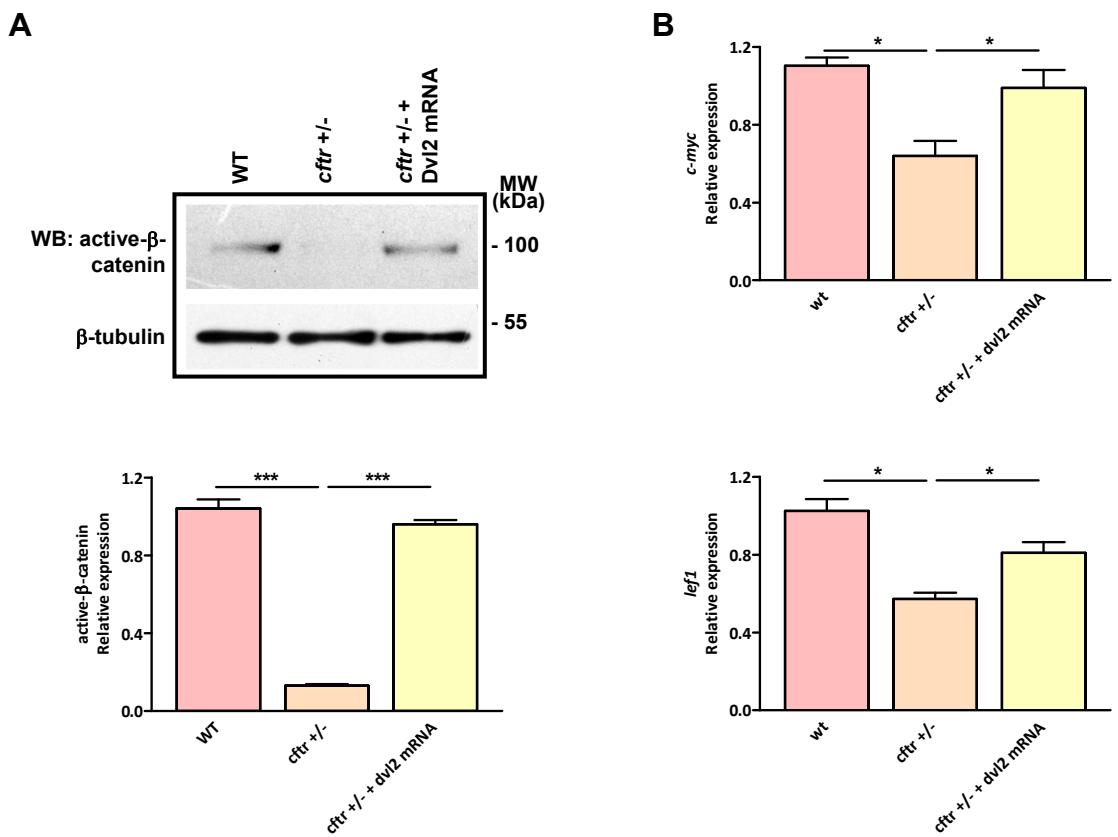
Supplementary figure 12



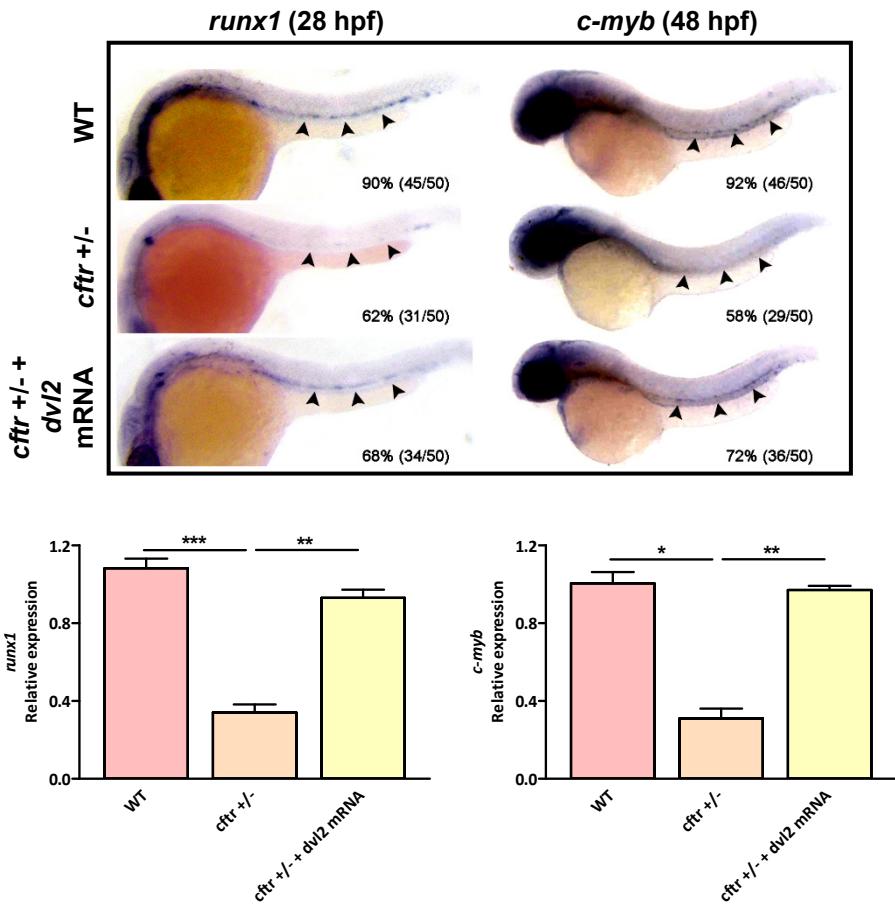
Supplementary figure 13



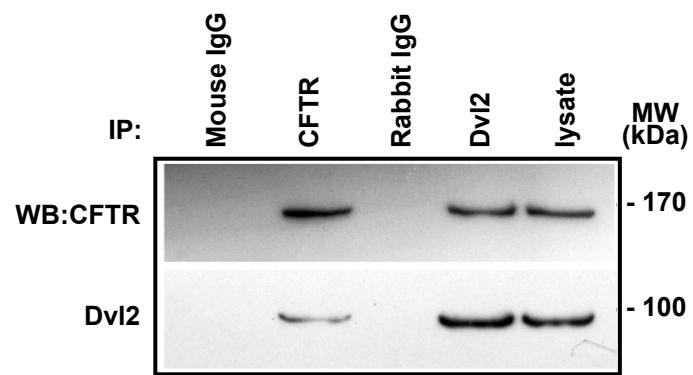
Supplementary figure 14



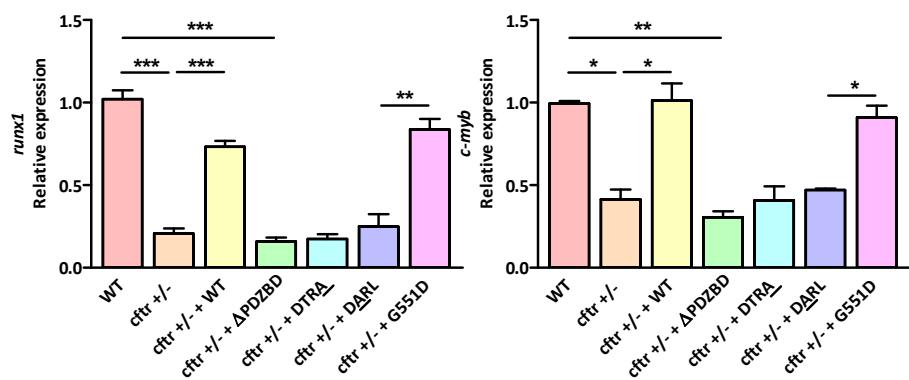
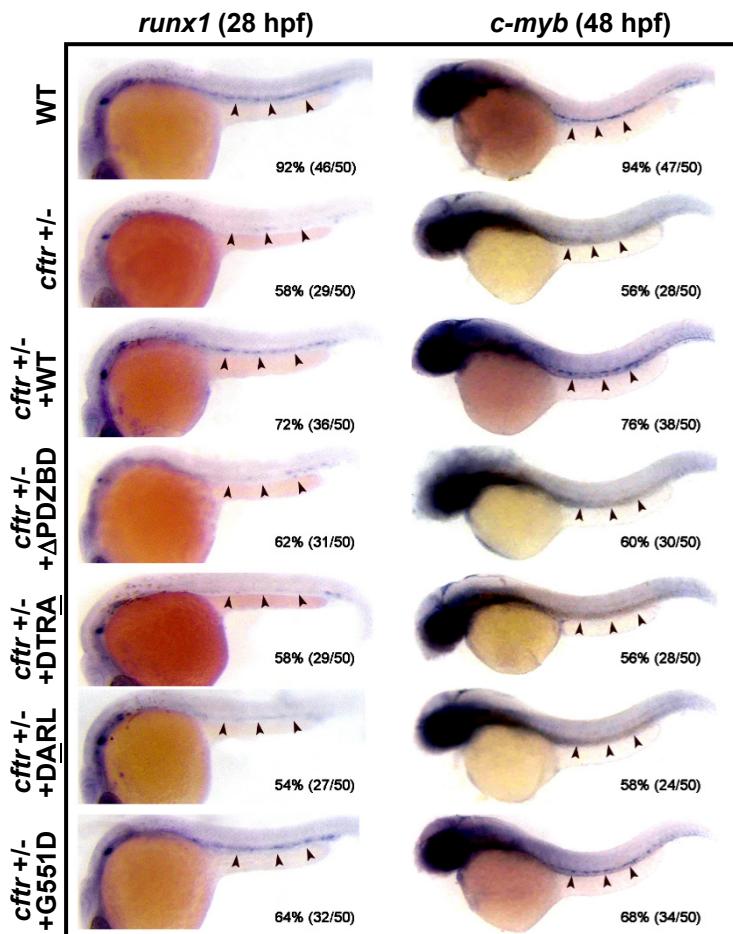
Supplementary figure 15



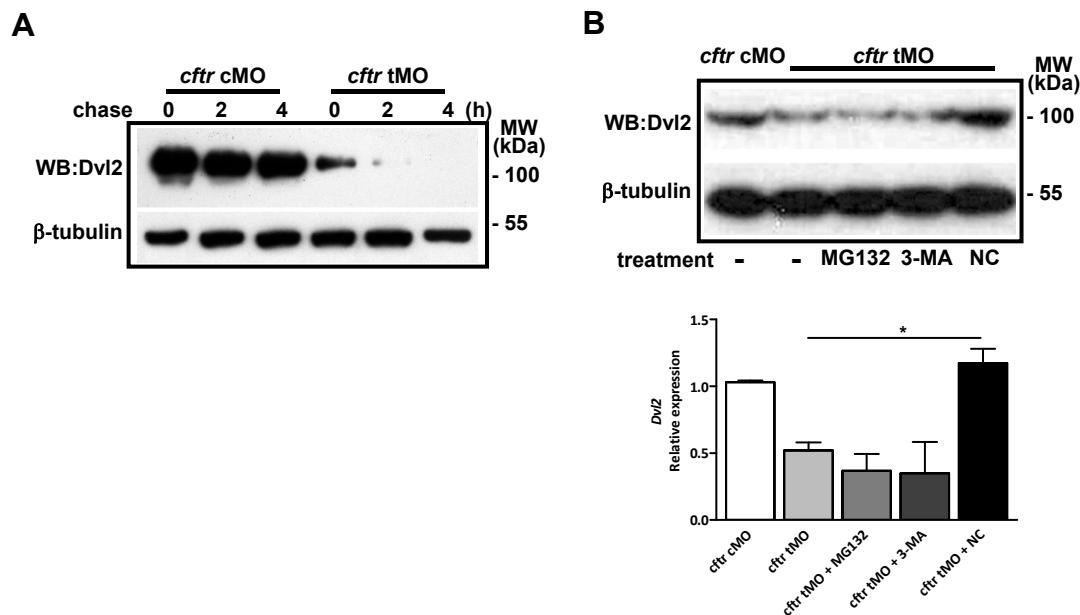
Supplementary figure 16



Supplementary figure 17



Supplementary figure 18



Supplementary figure 19