

**Supplemental File 1.** The genes in column A were identified as significantly differently expressed between C59 treated and control axolotl embryos and between Wnt-inhibited and control zebrafish (Wehner et al 2014). The number 1 references the experimental treatments in the zebrafish study where genes were identified as significant.

**Treatments from the zebrafish microarray experiment**

	<b>axin1 vs wt 6 hpa single</b>	<b>dkk1 vs wt 6hpa single</b>	<b>axin vs wt 48 hpa</b>	<b>dkk1 vs wt 48 hpa</b>	<b>axin vs wt 48 hours</b>	<b>dkk1 vs wt 48 hours</b>	<b>axin vs wt 96 hours</b>	<b>dkk vs wt 96 hours</b>
ETV4	1	1	1	1	1	1	1	1
FN1	1	1	1	1	1	1	1	1
HMGB3	1	1	1	1	1	1	1	1
TNC	1	1	1	1	1	1	1	1
ADIPOQ	1	1	1	1	1			1
B2M	1	1	1	1	1			1
BMP7	1			1	1	1	1	1
BNIP3	1	1	1	1	1	1		
BTBD6			1	1	1	1	1	1
CRABP1	1			1	1	1	1	1
CXCL12	1	1	1	1	1			1
HOXA13	1	1	1			1	1	1
HYOU1			1	1	1	1	1	1
ID1	1	1	1	1	1			1
KAL1	1	1	1	1	1			1
KIF26B	1	1	1			1	1	1
LAMB1	1	1	1	1	1	1		
LEF1	1			1	1	1	1	1
LFNG	1			1	1	1	1	1
SERPINH1	1	1	1	1	1	1		
STMN1	1	1			1	1	1	1
SVIL	1	1			1	1	1	1
VCAN	1	1	1	1	1			1
ANXA1	1	1	1	1				1
CCNB1	1	1	1				1	1

CKAP4	1	1	1	1				1
CKM	1	1	1				1	1
DHRS13	1	1	1	1				1
DUSP6	1	1	1	1				1
EGFL6	1	1				1	1	1
FHL1	1	1	1	1	1			
GADD45G	1	1	1	1				1
HPGD	1	1	1	1				1
INHBB				1	1	1	1	1
LMO4	1	1	1	1				1
NET1	1	1	1	1				1
PARP6	1	1	1	1				1
PLTP	1	1	1	1				1
RASL11B	1	1	1	1				1
RND3	1	1	1	1				1
ROBO1	1	1	1	1				1
RTN1	1	1	1	1				1
SST	1	1	1	1				1
TGIF1	1	1	1	1				1
TNFSF10	1	1	1	1				1
TSHZ2				1	1	1	1	1
ADSSL1	1	1	1	1				
ANGPTL7	1	1	1	1				
CAT	1	1	1	1				
CCNB2	1	1	1	1				
DAAM1			1	1	1			1
DST	1	1	1					1
FLNA	1	1					1	1
FYN	1	1	1	1				
HEBP2			1	1	1	1		
HSPA5			1	1	1	1		
HSPD1	1	1			1	1		
KIF11	1	1					1	1
KRT18	1	1	1			1		

LMNB2	1	1	1	1				
MARCKS	1	1	1			1		
MMP14	1	1	1	1				
MSX2	1			1	1			1
NUF2	1	1	1	1				
OGN	1	1	1	1				
PCP4	1	1					1	1
PLK1	1	1	1	1				
RANBP1	1	1	1					1
RARG	1			1	1			1
RASAL2	1	1	1					1
RBP4	1	1	1			1		
SALL1			1	1			1	1
SUZ12	1	1	1	1				
TGFB1	1	1	1	1				
TMPO	1					1	1	1
TNFRSF6B	1	1					1	1
ACTA2	1	1				1		
ANGPTL2	1	1	1					
ATP6V1B2	1	1	1					
AURKA	1	1	1					
BCAN	1	1	1					
C9orf3	1	1						1
CKS1B	1	1	1					
COL5A1	1	1	1					
CXCR4	1	1						1
CYP26A1	1	1						1
CYR61	1	1						1
DCK	1	1						1
DIXDC1						1	1	1
DUPD1	1	1						1
EIF4G1			1	1				1
EMILIN1	1			1				1
EMX2	1			1				1

ESCO2	1	1						1
FEN1	1						1	1
FREM2						1	1	1
GAP43						1	1	1
GINS2	1	1						1
GINS3			1	1				1
HSPB1	1	1						1
ILF2						1	1	1
KEAP1	1	1						1
KIF15	1	1						1
LMAN1				1	1	1		
MBP						1	1	1
MCM6	1	1						1
MKI67	1	1				1		
MYCN	1	1						1
MYH13	1	1						1
NAPEPLD						1	1	1
NASP	1	1						1
OLFM2	1	1			1			
PAPSS2	1	1						1
PARP1	1	1						1
PDGFRL	1	1						1
PLOD1						1	1	1
PRDM1			1	1				1
PRICKLE1	1			1				1
PRIM1	1	1						1
PRRX1	1	1						1
RAD51	1	1						1
RHOA	1	1	1					
RRM1	1	1			1			
RRM2	1	1	1					
SEMA3D	1	1						1
SESN3			1	1				1
SFRP1	1	1	1					

SLC39A7				1			1	1
SMAD3	1	1	1					
SNAP25			1	1	1			
STMN4	1	1						1
SULF1			1	1				1
TNFRSF21			1	1				1
TPX2	1	1				1		
TUBB	1	1				1		
WIF1			1	1				1
ALDOA			1	1				
ARL11					1	1		
ASPM	1	1						
ATP2A2	1	1						
ATP6VOD1	1	1						
ATP6V1A			1					1
BIRC5			1	1				
BMP2			1	1				
CCNA2	1	1						
CCNB3	1	1						
CDC20	1	1						
CDCA8	1	1						
CENPE	1	1						
CHAF1A	1					1		
CHST2	1							1
CHSY1							1	1
CPT1A	1							1
CRABP2	1							1
CRIP1	1	1						
CTGF	1	1						
CTHRC1				1	1			
CYP26B1	1							1
DDX27	1	1						
DHRS3	1							1
DLGAP5	1	1						

DNASE1L1	1			1				
DSCC1	1							1
EFEMP1					1	1		
EGFLAM			1					1
EGR1	1	1						
ENOSF1				1				1
ENTPD2	1	1						
EXO1							1	1
FLNC	1			1				
FOS	1	1						
GATM			1			1		
GCDH	1	1						
GLUL	1	1						
GOSR2	1							1
hgd				1				1
HIBCH				1				1
HMMR	1	1						
HSPB8	1			1				
HTRA1			1	1				
IFRD2	1	1						
IGF2BP3	1	1						
KDEL3	1	1						
KIF22	1	1						
KIF23	1	1						
KIFC1	1	1						
LEMD3	1			1				
LMO7	1							1
LRRC20							1	1
LTA4H	1	1						
MAD2L1	1	1						
MXI1			1			1		
NDRG1	1							1
NFIL3	1	1						
NHSL1	1	1						

NT5C3	1			1				
NUPR1			1					1
NUSAP1	1	1						
PKIG			1	1				
PLK4					1	1		
POLA2	1	1						
PRC1	1	1						
QDPR	1	1						
RAB34	1	1						
RAB3IP	1	1						
RHOT1	1	1						
RPS6KA3	1	1						
SART3	1	1						
SCIN			1	1				
SEC23A	1			1				
SEMA5A				1				1
SFRP2			1					1
SLC16A9			1					1
SLC7A3	1							1
SMAD7	1			1				
SNTB1	1	1						
SPC25	1	1						
SPOCK3	1							1
SPON2			1					1
TACC3	1	1						
TAGLN					1	1		
TAPBPL	1							1
TNNI2	1	1						
TNNT3	1	1						
TRIM63	1	1						
TTK	1	1						
TUBA1B	1	1						
TYMS			1					1
UCHL1				1	1			

UCK2	1			1			
UGDH	1					1	
VRK1	1						1
Wnt5a	1						1
YARS	1	1					
ZMYND19					1	1	
ABAT			1				
ABCA1	1						
ACPL2							1
ACSBG2	1						
ADCYAP1							1
AK1							1
ANP32E							1
APEX1						1	
APRT							1
ARF1							1
ARF3							1
ATF5						1	
axin1							1
BCO2	1						
C3orf54	1						
CALB2							1
CALU						1	
CAMK2D				1			
CCDC80				1			
CDC27	1						
CDC6	1						
CDCA5			1				
CDK7				1			
CDX4						1	
CENPF	1						
CENPM			1				
COL21A1							1
COPB2			1				



COQ10B			1				
CTH	1						
DCN					1		
DEPDC7			1				
DES			1				
DLGAP4							1
DMXL2			1				
DNAJC9							1
DRAP1							1
E2F3	1						
EIF4EBP3							1
ELOVL6							1
ENPP1							1
EXOSC2			1				
FAM20C							1
FBXW11					1		
FBXW5			1				
FERMT1							1
FOXK1							1
FZD8	1						
GAMT							1
GIN54							1
GPD1	1						
GPR143							1
GPR182							1
GTSE1					1		
HAPLN3					1		
HAUS8							1
HCFC1							1
HEATR3	1						
HELLS							1
HEXB	1						
HNRNPM	1						
HOXA3							1

ID3								1
IL1B	1							
INCENP			1					
IRF1	1							
ITGB1BP3								1
ITGBL1								1
JAG1								1
KBTBD10	1							
KIAA0182								1
KIAA1715	1							
KIF2C						1		
LAMA5								1
LBR						1		
LDB3				1				
LEPRE1			1					
LPAR1						1		
LPIN1								1
MCM4	1							
MLL5								1
MMD			1					
MPV17			1					
MRE11A	1							
MTFR1	1							
MYL4	1							
NOLC1								1
NPPC								1
NR2F1				1				
NSMCE1	1							
NTF3	1							
NUCKS1			1					
NUP210						1		
ODC1								1
ONECUT2	1							
P4HA1						1		

PABPC4				1				
PACSIN3	1							
PCNA								1
PDZRN3				1				
PECR	1							
PIAS2				1				
PIK3R1						1		
PKM2			1					
PRICKLE2				1				
PRRC1	1							
PRSS23								1
PVALB	1							
RBM14	1							
RBPMS	1							
RCAN1				1				
RCN1						1		
RCOR1			1					
RNASEH2A								1
RNF168	1							
RPA1	1							
RPL31								1
RPS6KB1			1					
SALL4								1
SASS6	1							
SH3GL2				1				
SHCBP1			1					
SLITRK6	1							
SNRPA1								1
SPEN								1
srsf4								1
ST6GAL2								1
STT3A				1				
SULF2								1
TAGLN3						1		

TAT								1
TDG	1							
TEK	1							
THBS2			1					
TIMD4	1							
TM9SF3	1							
TMEM48								1
TP53INP1			1					
TPM1						1		
TPM3			1					
TRABD	1							
TRIP13								1
TSC22D3								1
TWSG1	1							
UAP1	1							
UBE2S								1
VEZF1								1
WHSC1	1							
XIRP1	1							
YPEL3			1					
YWHAH			1					
ZFP36L2					1			