

**Supplementary Table 1_mRNA Expression in Kelly following miR-542-5p over-expression
Genes Down-Regulated > 2 fold in two biological replicates**

GeneName	Mean change (2 repeats)	qPCR validation	TargetScan	PicTar	Microcosm
C8orf49	0.17				
KIAA1618	0.22				
CDH7	0.25	No			
THAP5	0.26				
ZNF474	0.26				Yes
SYCP2	0.26				
LRRC6	0.26				
LOC440895	0.27				
NOS1	0.28				
PCDH10	0.28	No	Yes		
ZNF406	0.28				
HAS2	0.30				
SCN9A	0.30				
IFIT1L	0.31				
LOC440080	0.31				
OR2T2	0.31				
HHLA3	0.31				
CUTL1	0.32				
KRT18	0.33				
LOC644764	0.33				
ALS2CR19	0.33				
ROPN1	0.35				
MAG11	0.35				
PCDHAC1	0.35				
LOC642943	0.36				
ERN1	0.36				
PCDHA5	0.36				
SH3GLB2	0.36	Yes	Yes		
TMEM45A	0.37				
TAPBP	0.37				
MGC12965	0.38				
GSTM5	0.38				
FAM73B	0.38				
TSPAN11	0.38				
CD79A	0.38				
MTMR8	0.38				
CLEC4F	0.39				
STK33	0.39				
LOC644414	0.40				
MAGEE2	0.40				
LOC253820	0.40				
KRTAP19-1	0.40				
ERBB3	0.42				
SNAI2	0.42				
C9orf150	0.43				
DCD	0.43				
FLJ26056	0.44				
MAN1A1	0.44				
GRIN3A	0.44	Yes	Yes		
LOC441126	0.44				
GALIG	0.44				
RGR	0.45				

KCNMA1	0.45		Yes		
NR4A3	0.46				
C17orf57	0.47				
SLC38A4	0.47				
PCDHB14	0.47				
SLC10A1	0.48				
ANKRD16	0.49				

GeneName	Mean change (2 replicates)	qPCR validation
OR2L3	10.65	
LOC401180	5.41	
SCN4A	4.67	
C1orf190	4.30	
CSDA	3.58	
PQBP1	3.40	
GPR50	3.29	
C10orf90	3.20	
KIR3DL1	3.17	
LOC644836	3.15	
SPA17	3.08	
SLC35A2	3.01	
ITGA8	2.93	
COLEC12	2.91	
CXCL12	2.90	
SNIP	2.90	Yes
C15orf45	2.84	
LOC286208	2.80	
LOC285033	2.80	
MERTK	2.74	
C20orf46	2.71	
C17orf67	2.71	
CCDC83	2.66	
DYSF	2.65	
LOC92196	2.58	
REEP6	2.57	
TCEB3B	2.57	
LRRTM3	2.54	
C9orf21	2.43	
SERTAD3	2.42	
PGLYRP1	2.42	
DUSP23	2.41	
LOC644646	2.39	
SPECC1	2.38	
KIAA1822L	2.38	
ANKRD6	2.32	
OR10G2	2.29	
C21orf49	2.29	
LOC643120	2.27	
OR4C3	2.24	
OR1F1	2.22	
IL4	2.16	
NXF3	2.16	
TAL1	2.09	
MOXD1	2.08	

SIX5	2.07	
------	------	--

