

**Table S1. Summary of RNAi knockdown of all cadherin containing genes identified in stage 22 spinal cord**

Target ID	Description	Cadherin Type	Ensembl gene ID	Phenotype observed*
pECK0	Protocadherin10	Protocadherin	ENSGALG00000000746	NT patterning defects
pECK1	cRET	Receptor Tyr kinase	ENSGALG00000002555	No phenotype
pECK2	Calsyntenin1	Protocadherin	ENSGALG00000002606	Decrease in cell number
pECK3	Protocadherin gamma C5	Protocadherin	ENSGALG00000002657	No phenotype
pECK4	Cadherin4, R-cadherin	Classical Type I	ENSGALG00000005102	Decrease in cell number
pECK5	Cadherin5, VE-cadherin	Classical Type I	ENSGALG00000005272	Differentiation defect
pECK6	Cadherin 11, OB-cadherin	Classical Type I	ENSGALG00000005278	Decrease in cell number
pECK7	Celsr3, Flamingo1 homologue	Flamingo orthologue	ENSGALG00000005730	No phenotype
pECK8	FatJ protocadherin	Fat protocadherin	ENSGALG00000011823	Differentiation defect
pECK9	Cadherin20, MN-cadherin	Classical Type II	ENSGALG00000012906	Decrease in cell number
pECK10	Fat1 protocadherin	Fat protocadherin	ENSGALG00000013579	Decrease in cell number
pECK12	Calsyntenin3	Protocadherin	ENSGALG00000014674	Decrease in cell number
pECK13	Cadherin2, N-cadherin	Classical Type I	ENSGALG00000015132	Decrease in cell number
pECK14	Protocadherin8 (Arcadlin)	Protocadherin	ENSGALG00000016944	No phenotype
pECK15	Protocadherin17	Protocadherin	ENSGALG00000016941	Decrease in cell number
pECK38	Cadherin1, E-Cadherin	Classical Type I	ENSGALG0000000608	No phenotype
pECK39	Cadherin-related neuronal receptor c01	Protocadherin	ENSGALG00000000760	No phenotype
pECK40	Protocadherin beta 15	Protocadherin	ENSGALG00000001009	No phenotype
pECK41	Protocadherin1	Protocadherin	ENSGALG00000002553	No phenotype
pECK42	Protocadherin-LKC gene product	Protocadherin	ENSGALG00000003285	No phenotype
pECK43	Fat2 protocadherin	Fat protocadherin	ENSGALG00000004320	Differentiation defect
pECK44	Cadherin23, Otocadherin	Protocadherin	ENSGALG00000004653	No phenotype
pECK45	Calsyntenin2	Protocadherin	ENSGALG00000005310	No phenotype
pECK46	Cadherin8	Classical Type II	ENSGALG00000005319	No phenotype
pECK47	Protocadherin beta 4	Protocadherin	ENSGALG00000005427	No phenotype
pECK48	Cadherin13, Truncated-cadherin	Classical Type II	ENSGALG00000005483	Decrease in cell number
pECK49	Protocadherin19	Protocadherin	ENSGALG00000006822	Increase in cell number
pECK50	Protocadherin11	Protocadherin	ENSGALG00000006851	No phenotype
pECK51	Cadherin22	Classical Type II	ENSGALG00000007211	No phenotype
pECK53	Unknown gene KIAA0319	Unknown	ENSGALG00000012660	Decrease in cell number

pECK54	Cadherin6B	Classical Type II	ENSGALG00000012917	Decrease in cell number
pECK55	Cadherin10, T2 cadherin	Classical Type II	ENSGALG00000012927	Increase in cell number
pECK56	Cadherin12, Brain cadherin	Classical Type II	ENSGALG00000012941	Differentiation defect
pECK57	Cadherin18 (Cdh14)	Classical Type II	ENSGALG00000012942	Differentiation defect
pECK58	Protocadherin7	Protocadherin	ENSGALG00000014349	No phenotype
pECK59	Protocadherin9	Protocadherin	ENSGALG00000016908	No phenotype
pECK60	Protocadherin13	Protocadherin	ENSGALG00000016934	Decrease in cell number
pECK61	FRAS1-related ECM protein 2 (FREM2)	Extracellular Matrix	ENSGALG00000017041	Decrease in cell number
pECK62	Fat3 protocadherin	Fat protocadherin	ENSGALG00000017229	Decrease in cell number
pECK64	Protocadherin gamma A11	Protocadherin	ENSGALG00000021472	No phenotype
<p>*Phenotype observed following RNAi-mediated knockdown: 'NT patterning defects', alteration in the expression pattern of Pax6, Pax7, Islet1, Lim1/Lim2 Nkx2.2 or Lmx1b; 'Decrease in cell number', reduction in total number of cells on the electroporated side of the NT and concomitant reduction in size of expression domain of all markers analysed; 'Increase in cell number', increase in total number of cells on the electroporated side of the NT; 'Differentiation defect', increased differentiation of neuronal progenitors evident by an accumulation of electroporated cells in the mantle zone of the NT where differentiating cells are located.</p>				