

## **Supplemental Material to:**

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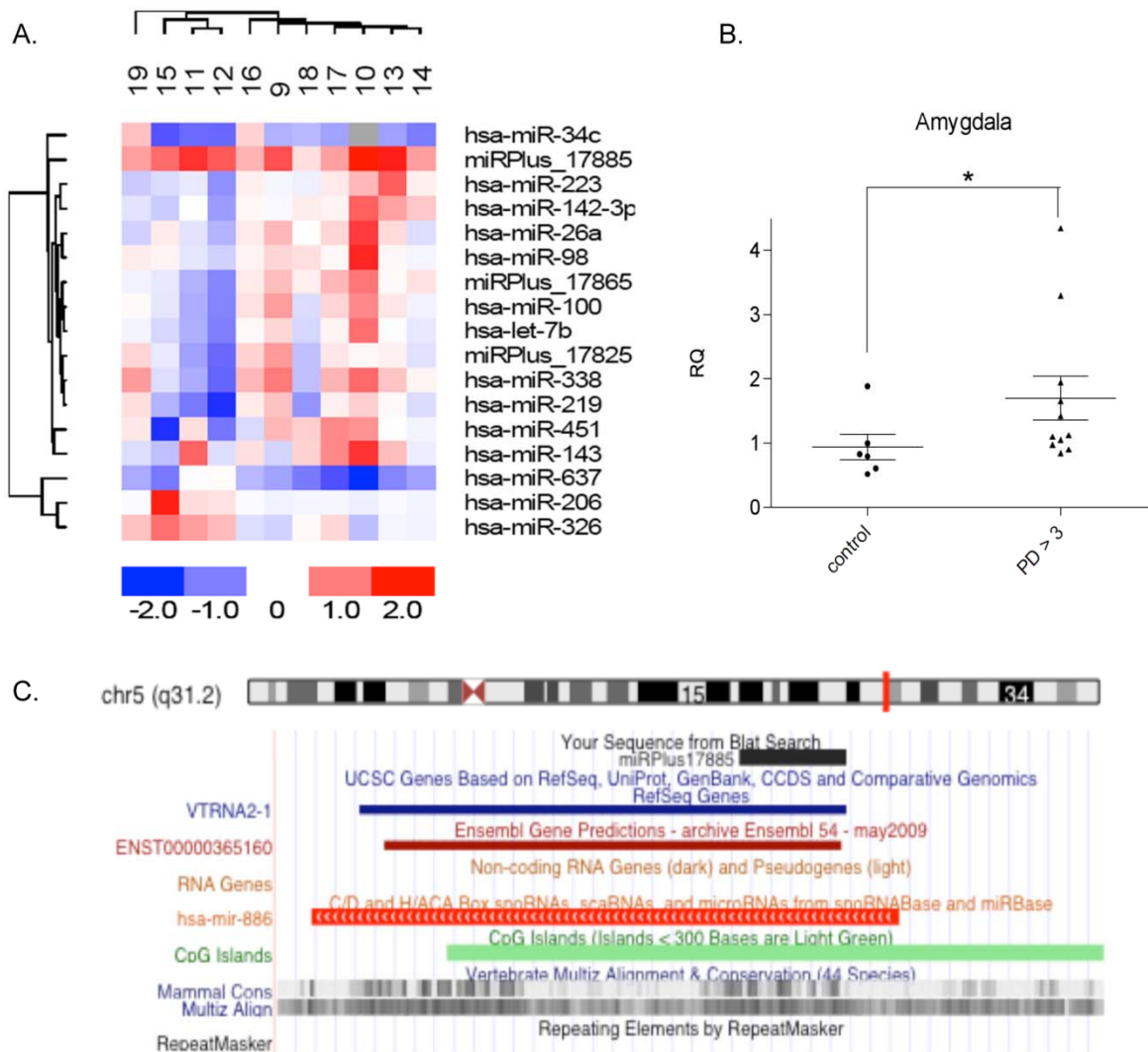
**Upregulation of a small vault RNA (svtRNA2-1a)  
is an early event in Parkinson's disease and  
induces neuronal dysfunction**

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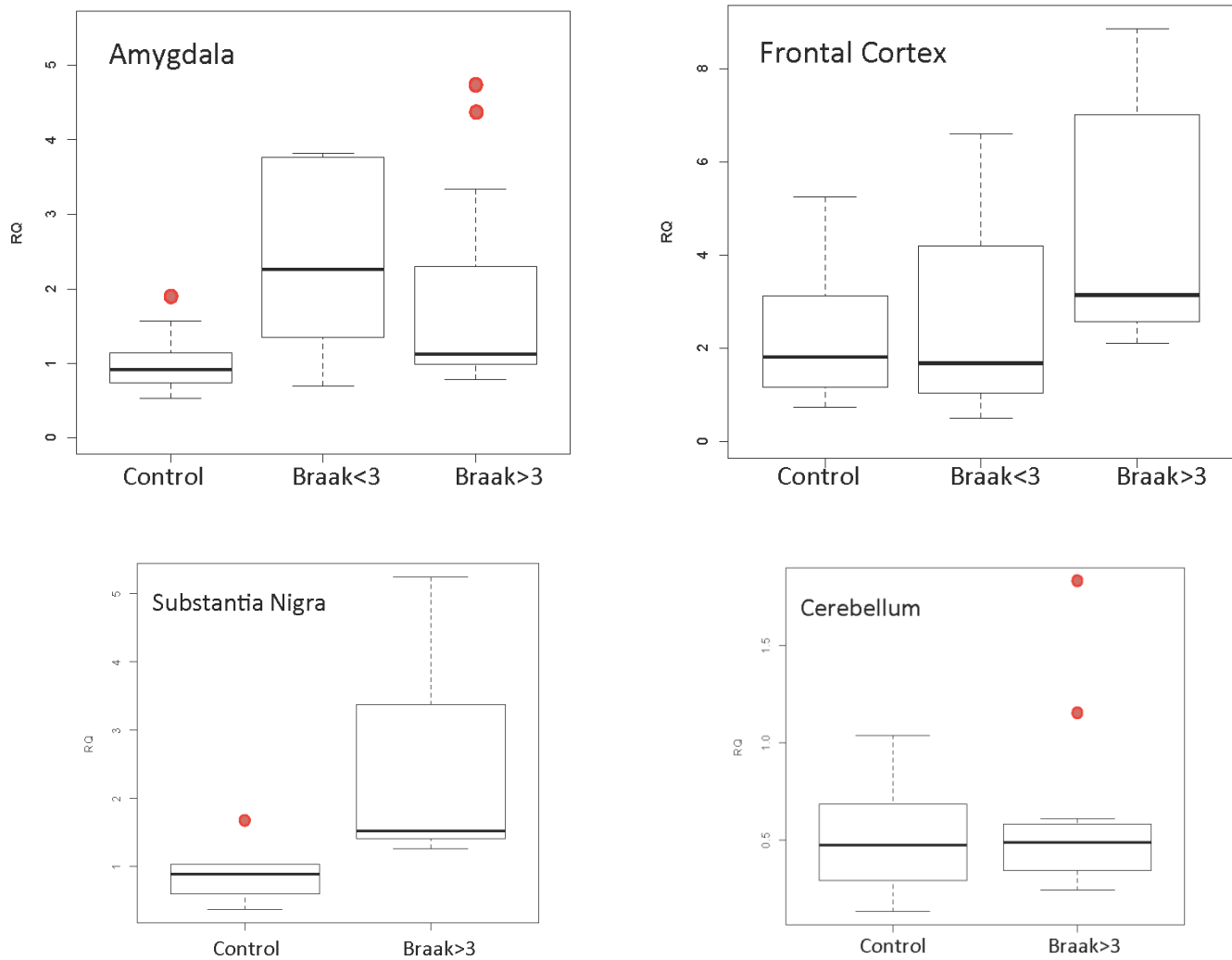
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Supl. Fig. 1



Supl.Fig.1. MiRNA microarrays heat map and rRT-PCR validation. A. Heat map showing deregulated miRNAs in AM samples from 11 individual PD patients compared to a pool made of equitable quantities of total RNA of 6 individual control AM (listed in supl.Table 1). MiRNA up-regulation is indicated in red and downregulation in blue. B. svtRNA2-1a (miRPlus\_17885) expression levels in the same samples by RT-PCR, using RNU6B as the reference snRNA. RQ represents relative expression levels of svtRNA2-1a in AM samples from PD patients vs. control individuals. Plot shows individual and mean RQ values  $\pm$  SEM (\*,  $p < 0,05$ ; using a LMM). C. Genomic location of svtRNA2-1a (miRPlus\_17885) in chromosome 5 (USCS genome browser)

## Supl. Fig. 2

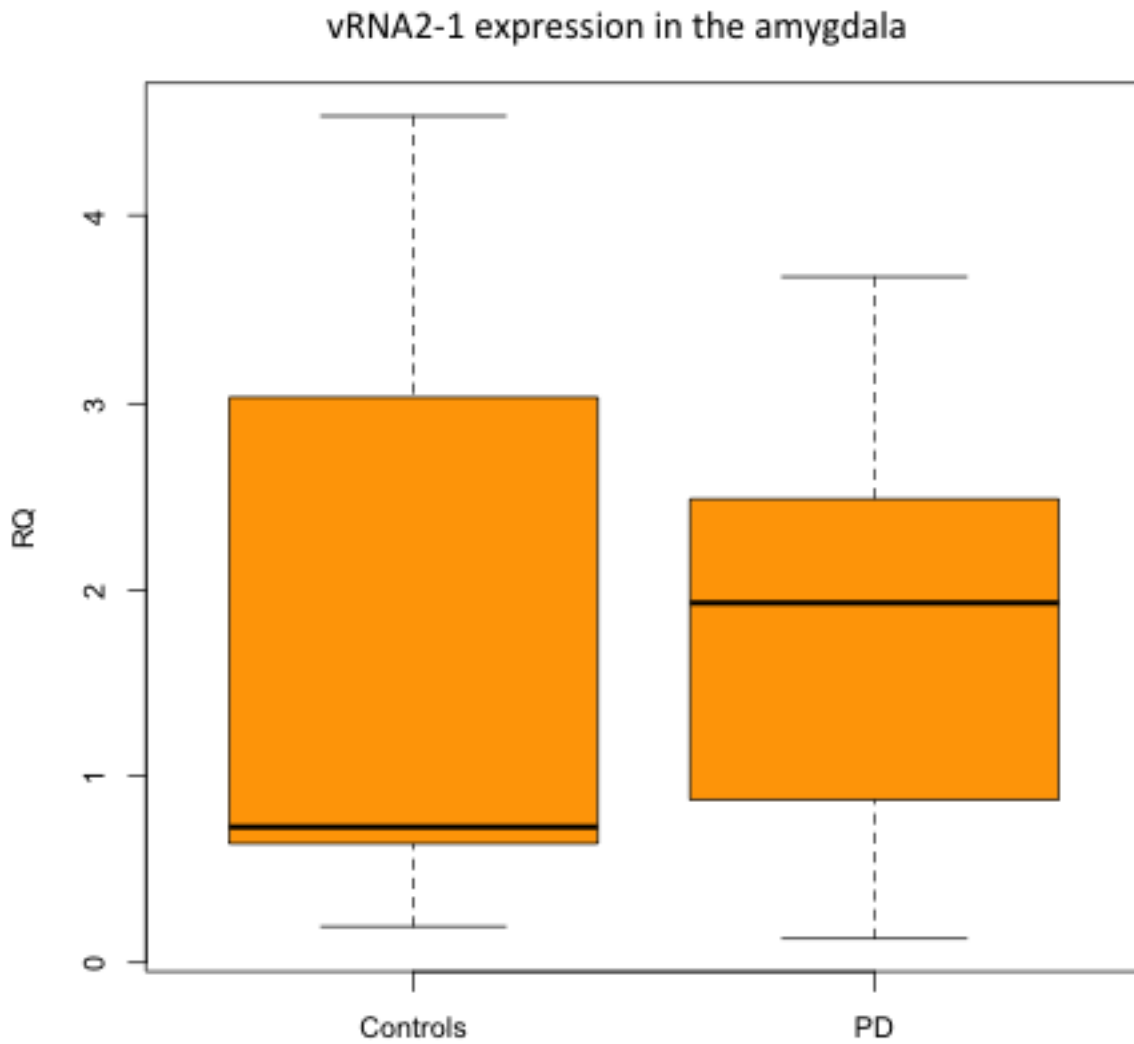


LMM analysis	All samples		Without outliers	
	FC	P	FC	P
AM Control vs Braak >3	1,48	0,0014	1,64	<2e-4
AM Control vs Braak <3	2,24	<2e-4	2,09	<2e-4
FC Control vs Braak >3	2,14	<2e-4	-	-
FC Control vs Braak <3	1,03	0,8136	-	-
SN Control vs Braak >3	2,63	<2e-4	3,03	<2e-4
CB Control vs Braak >3	1,15	0,1784	0,91	0,3284

REST analysis	All samples		Without outliers	
	FC	P	FC	P
AM Control vs Braak >3	1,68	0,032	1,51	0,0335
AM Control vs Braak <3	2,12	0,011	2,23	0,075
FC Control vs Braak >3	2,26	0,001	-	-
FC Control vs Braak <3	1,00	0,982	-	-
SN Control vs Braak >3	2,63	0,009	3,01	0,002
CB Control vs Braak >3	1,16	0,5625	1,089	0,7260

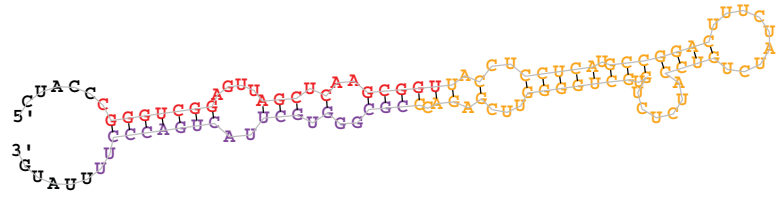
Supl. Figure 2. Box plot analysis of the RQ in each dataset. Red dots label outlier samples, defined as RQ values beyond 1,5 times the interquartile range away from either the first or third quartile. Statistical analyses of the differences between controls and motor-PD or premotor-PD are shown, using all samples or removing outliers.

Supl. Fig. 3



Supl. Fig. 3. vtRNA2-1 expression levels in the amygdala of motor cases (Braak stages >3) of PD patients.. Relative expression for vtRNA2-1 was assessed by rRT-PCR, plots show mean RQ  $\pm$  SEM.

miRBase precursor : hsa-mir-886  
 Total read count : 459707  
 hsa-miR-886 read count : 421860  
 hsa-miR-886\* read count : 35640  
 remaining reads : 2207



5'	hsa-miR-886	hsa-miR-886*	-3'	exp	reads	mm	sample
5'	cuaccgggucggaguuagcucaagcgguuaccuccuacugccggacuucuaucuguccaucucugucgugguuagcagaccg	cggggucuuacugaccuuuuaug	-3'	exp	reads	mm	sample
	..... (((((((..... ((((. ((..... (((((((.....)))).....))))).....))))).....))))).....				2	0	yal
	..accgggucggaguuagcucaagc.....				1	0	yal
	..accgggucggaguuagcucaagcgg.....				8	0	yal
	..accgggucggaguuagcucaagcgggu.....				4	0	yal
	..accgggucggaguuagcucaagcgguu.....				1	0	yal
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. . . . . gggucggaguuagcucaagcgguaAa . . . . .	12	1	j26
. . . . . gggucggaguuagcucaagcgguuC . . . . .	2	1	j26
. . . . . gggucgUaguuagcucaagcgguuA . . . . .	1	1	j26
. . . . . gggucggaguuagcucaagcUguua . . . . .	1	1	j26
. . . . . gggucggaguuagcucaagcgguuU . . . . .	8	1	j26
. . . . . gggucggaguuagcucaagcgguuAA . . . . .	26	1	j26
. . . . . gggucggaguuagcucaagcgguuUC . . . . .	1	1	j26
. . . . . gggucggaguuagcucaagcgguuac . . . . .	12	0	j26
. . . . . ggucggaguuagcucaagcgg . . . . .	1	0	j26
. . . . . ggucggaguuagcucaagcgg . . . . .	2	0	j26
. . . . . ggucggaguuagcucaagcgguu . . . . .	10	0	j26
. . . . . ggucggaguuagcucaagcGUu . . . . .	2	1	j26
. . . . . ggucggaguuagcucaagcgguuac . . . . .	1	0	j26
. . . . . gucggaguuagcucaagcgguu . . . . .	2	0	j26
. . . . . ucggaguuagcucaagcgguuA . . . . .	1	0	j26
. . . . . cggaguuagcucaagcgg . . . . .	1	0	j26
. . . . . Gggaguuagcucaagcgguu . . . . .	1	1	j26
. . . . . ggaguuagcucaagcgg . . . . .	1	0	j26
. . . . . ggaguuagcucaagcgguu . . . . .	1	0	j26
. . . . . uaccuccuacugcggacu . . . . .	1	0	j26
. . . . . uaccuccuacugcggacu . . . . .	1	0	j26
. . . . . ccuccuacugcggacu . . . . .	1	0	j26
. . . . . cuccuacugcggacu . . . . .	1	0	j26
. . . . . guccaucucugucgggguuucgagacc . . . . .	2	0	j26
. . . . . cuugucgggguuucgaga . . . . .	1	0	j26
. . . . . cuugucgggguuucgagac . . . . .	1	0	j26
. . . . . agaccgcggggucuuacugacc . . . . .	2	0	j26
. . . . . agaccgcggggucuuacugaccuu . . . . .	1	0	j26
. . . . . agaccgcggggucuuacugaccuuuu . . . . .	6	0	j26
. . . . . gaccgcggggucuuacugaccuuuu . . . . .	2	0	j26
. . . . . gaccgcggggucuuacugaccuuuu . . . . .	3	0	j26
. . . . . acccgcggggucuuacuga . . . . .	1	0	j26
. . . . . acccgcggggucuuacugaccuu . . . . .	1	0	j26
. . . . . acccgcggggucuuacugaccuuuu . . . . .	1	0	j26
. . . . . cgcggggucuuacugaccuu . . . . .	3	0	j26
. . . . . cgcggggucuuacugaccuu . . . . .	16	0	j26
. . . . . cgcggggucuuacugaccuuuu . . . . .	2	0	j26
. . . . . ggcggggucuuacugaccuuuu . . . . .	1	0	j26
. . . . . gcggggucuuacugaccuuuu . . . . .	2	0	j26
. . . . . acccgggucggaguuagcucaa . . . . .	1	0	val
. . . . . acccgggucggaguuagcucaag . . . . .	2	0	val
. . . . . acccgggAcggaguuagcucaag . . . . .	1	1	val
. . . . . acccgggucggaguuagcucaagc . . . . .	1	0	val
. . . . . acccgggucggaguuagcucUagc . . . . .	1	1	val
. . . . . acccgggucggaguuagcucaagc . . . . .	1	0	val
. . . . . acccgggucggaguuagcucaagcgg . . . . .	1	1	val
. . . . . acccgggucggaguuagcucaagcgg . . . . .	8	0	val
. . . . . acccgggucggaguuagcucCagcgg . . . . .	1	1	val
. . . . . acccgggucggaguuagcucaagcgg . . . . .	8	0	val
. . . . . acccgggucggaguuagcucCagcgg . . . . .	1	1	val
. . . . . acccgggucggaguuagcucaagcgguu . . . . .	3	0	val
. . . . . acccgggucggaguuagcucaagcgguuac . . . . .	2	0	val
. . . . . cccgggucggaguuagcucaagc . . . . .	2	0	val
. . . . . cccgggucggaguuagcucaagcgg . . . . .	6	0	val
. . . . . Accgggucggaguuagcucaagcgg . . . . .	4	1	val
. . . . . cccgggucggaguuagcucaagcG . . . . .	1	1	val
. . . . . Accgggucggaguuagcucaagcgg . . . . .	2	1	val
. . . . . cccgggucggaguuagcucaagcgg . . . . .	8	0	val
. . . . . cccgggucggaguuagcucaagcgguu . . . . .	1	0	val
. . . . . Accgggucggaguuagcucaagcgguu . . . . .	1	1	val
. . . . . cccgggucggaguuagcucaa . . . . .	1	0	val
. . . . . ccgggucggaguuagcucaagc . . . . .	3	0	val
. . . . . ccgggucggaguuagcucaagcG . . . . .	1	1	val

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. . . . .	2	0	s03
. . . . .	7	0	s03
. . . . .	1	1	s03
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. . . . .	21	0	s03
. . . . .	1	1	s03
. . . . .	1	1	s03
. . . . .	1	1	s03
. . . . .	2	1	s03
. . . . .	1	1	s03
. . . . .	79	0	s03
. . . . .	1	1	s03
. . . . .	1	1	s03
. . . . .	6	1	s03
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. . . . .	16	0	s03
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. . . . .	7	1	s03
. . . . .	1	1	s03
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. . . . .	3	0	s03
. . . . .	2	1	s03
. . . . .	17	0	s03
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. . . . .	17	1	s03
. . . . .	2	1	s03
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. . . . .	1	1	s03
. . . . .	37	0	s03
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. . . . .	56	1	s03
. . . . .	1	1	s03
. . . . .	7	0	s03
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. . . . .	2	1	s03
. . . . .	1	1	s03
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. . . . .	203	0	s03
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. . . . .	3	1	s03
. . . . .	1	1	s03
. . . . .	3	1	s03
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. . . . .	1	1	s03
. . . . .	1	1	s03
. . . . .	3	1	s03
. . . . .	2	1	s03
. . . . .	3	1	s03
. . . . .	1	1	s03
. . . . .	2	1	s03
. . . . .	2	1	s03
. . . . .	1	1	s03
. . . . .	1	1	s03

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. . . . .	1	1	j21
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. . . . .	2	1	j21
. . . . .	1	1	j21
. . . . .	6	1	j21
. . . . .	2	1	j21
. . . . .	1	1	j21
. . . . .	5	1	j21
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. . . . .	4	1	j21
. . . . .	1	1	j21
. . . . .	7	1	j21
. . . . .	1	1	j21
. . . . .	1	1	j21
. . . . .	2	1	j21
. . . . .	1	1	j21

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.....cUcgggugcuuacugaccuu.....	1	1	A54
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.....cgggucggaguuagcucaagcgg.....	3	0	k12
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.....gggucggaguuagcucaagcgg.....	2	0	k12
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.....cgcgggugcuuacugaccu.....	1	0	k12
.....cgcgggugcuGacugaccu.....	1	1	k12
.....cgcgggugcuuacugaccuu.....	5	0	k12
.....cgcgggugcuuacugaccuu.....	4	0	k12
.....cgcgggAgcuuacugaccuu.....	1	1	k12
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.....cccgggucggaguuagcucaagcgg.....	1	0	j30

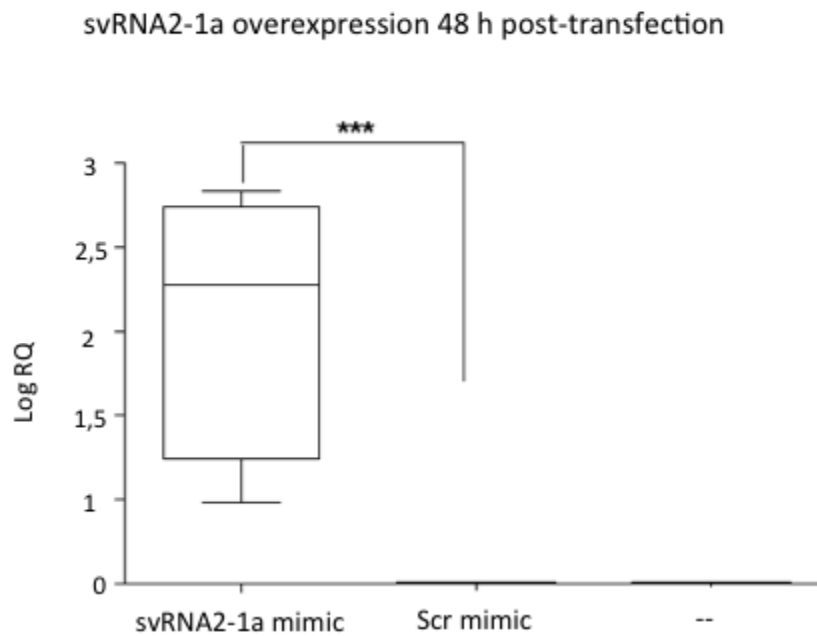
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....ccgggucgggaguuagcucaagcggA.....	3	1	j30
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....cgggucgggaguuagcucaagc.....	8	0	j30
....cgggucgggaguuagcucaagcA.....	1	1	j30
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....gggucgggaguuagcucaagcggUA.....	4	1	j30
....gggucgggaguuagcucaagcgguuu.....	1	0	j30
....gggucgggaguuagcucaagcgguuU.....	4	1	j30
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....cgaguuagcucaagcgguuU.....	1	1	j30
....ggaguuagcucaagcggG.....	1	0	j30
....uaccuccucaugccggacuucuu.....	1	0	j30
....ucaugccggacuucuu.....	1	0	j30

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.....cgaggugcuuacugacccuA.....	1	1	j30
.....cgagggCgcuuacugacccuu.....	1	1	j30
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.....cgaggugcuuacugacccuu.....	72	0	j30
.....cgaggugcuuacugacccuuA.....	1	1	j30
.....cgaggugcuuacugacccuu.....	2	0	j30
.....cgaggugcuuacugacccuuua.....	1	0	j30
.....cgaggugcuuacugacccuuU.....	1	1	j30
.....cgaggugcuuacugacccuu.....	1	0	j30

Supl. Fig. 5



Supl. Fig. 5. svRNA2-1a expression levels 48 hours after transfection of differentiated SHSY-5Y cells with either specific svRNA2-1a mimics or a scrambled mimic. Relative expression for svRNA2-1a was assessed in the same RNA samples used for gene expression profiling by RT-PCR. Bar plot shows log RQ values  $\pm$  SEM (\*\*\*,  $p < 0,001$ ; using LMM)

Supl.T.1. Characteristics of PD and control cases brain samples; techniques and figures in which they were used

n°	Braak staging	gender	age	post-mortem time	Amygdala		Frontal Cortex		Cerebellum		Substantia Nigra	
					Techniques	Figures	Techniques	Figures	Techniques	Figures	Techniques	Figures
1	LBD 5	M	66	5h	x / o	1.A/ 2.A/ S.1	x	1.B/ 2.B	x	1.C	-	-
2	LBD 5	M	88	2h	x / o	1.A/ 2.A/ S.1	x	1.B/ 2.B	x	1.C	-	-
3	LBD 5	M	77	11h	x / o	1.A/ 2.A/ S.1	x	1.B/ 2.B	x	1.C	-	-
4	LBD 5	M	82	16h 30	x / o	1.A/ 2.A/ S.1	x	1.B/ 2.B	x	1.C	-	-
5	LBD 5	F	84	4h	x / o	1.A/ 2.A/ S.1	x	1.B/ 2.B	x	1.C	-	-
6	LBD 4	M	68	4h 45	x / o	1.A/ 2.A/ S.1	x	1.B/ 2.B	x	1.C	-	-
7	LBD 4	M	51	9h 15	x / o	1.A/ 2.A/ S.1	x	1.B/ 2.B	x	1.C	-	-
8	LBD 4	M	69	5h 55	x / o	1.A/ 2.A/ S.1	x	1.B/ 2.B	x	1.C	-	-
9	LBD 5	F	85	6h 15	x / o	1.A/ 2.A/ S.1	x	1.B/ 2.B	x	1.C	x	1.D
10	LBD 5	M	81	7h	x / o	1.A/ 2.A/ S.1	x	1.B/ 2.B	x	1.C	x	1.D
11	LBD 5	F	54	10h 50	x / o	1.A/ 2.A/ S.1	x	1.B/ 2.B	x	1.C	x	1.D
12	LBD1	M	68	14h 15	x	2.A	x	2.B	-	-	-	-
13	LBD1	M	74	10h 50	x	2.A	-	-	-	-	-	-
14	LBD 2	M	33	3h 30	x	2.A	-	-	-	-	-	-
15	LBD 3	F	70	10h 50	x	2.A	-	-	-	-	-	-
16	LBD1	M	72	8h 55	x	2.A	x	2.B	-	-	-	-
17	LBD1	M	83	4h 30	x	2.A	x	2.B	-	-	-	-
18	LBD4	M	83	4h	x	1.A/ 2.A	x	1.B/ 2.B	-	-	x	1.D
19	LBD4	F	85	4h	x	1.A/ 2.A	x	1.B/ 2.B	-	-	x	1.D
20	LBD1	F	77	3h 15	-	-	x	2.B	-	-	-	-
21	LBD 4	M	73	4h 40	-	-	x	1.B/ 2.B	-	-	-	-
22	LBD 4	F	77	3h 15	-	-	-	-	-	-	x	1.D
23	LBD 4	F	70	4h 40	-	-	-	-	-	-	x	1.D
24	NL	M	40	9h 15	x / o	1.A/ 2.A/ S.1	x	1.B/ 2.B	x	1.C	-	-
25	NL	F	24	6h	x / o	1.A/ 2.A/ S.1	x	1.B/ 2.B	x	1.C	-	-
26	NL	F	47	9h 35	x / o	1.A/ 2.A/ S.1	x	1.B/ 2.B	x	1.C	-	-
27	NL	M	71	12h	x / o	1.A/ 2.A/ S.1	x	1.B/ 2.B	x	1.C	-	-
28	NL	M	30	4h 10	x / o	1.A/ 2.A/ S.1	x	1.B/ 2.B	x	1.C	-	-
29	NL	F	46	14h 15	x / o	1.A/ 2.A/ S.1	x	1.B/ 2.B	x	1.C	-	-
30	NL	M	56	5h	x	1.A/ 2.A	-	-	-	-	x	1.D
31	NL	M	59	6h 25	x	1.A/ 2.A	-	-	-	-	-	-
32	NL	F	71	8h 30	x	1.A/ 2.A	-	-	-	-	-	-
33	NL	M	66	3h 5	x	1.A/ 2.A	x	1.B/ 2.B	-	-	-	-
34	NL	F	81	4h	x	1.A/ 2.A	x	1.B/ 2.B	-	-	-	-
35	NL	F	64	5h	x	1.A/ 2.A	x	1.B/ 2.B	-	-	-	-
36	NL	F	49	7h	-	-	x	1.B/ 2.B	x	1.C	-	-
37	NL	M	79	7h	-	-	x	1.B/ 2.B	x	1.C	-	-
38	NL	F	75	3h	-	-	x	1.B/ 2.B	x	1.C	-	-
39	NL	M	35	8h	-	-	x	1.B/ 2.B	x	1.C	-	-
40	NL	F	65	4h	-	-	x	1.B/ 2.B	x	1.C	-	-
41	NL	M	53	3h	-	-	x	1.B/ 2.B	x	1.C	-	-
42	NL	M	62	3h	-	-	x	1.B/ 2.B	x	1.C	-	-
43	NL	M	67	5h	-	-	x	1.B/ 2.B	x	1.C	x	1.D
44	NL	M	85	5h 45	-	-	x	1.B/ 2.B	x	1.C	-	-
45	NL	M	78	2h 15	-	-	x	1.B/ 2.B	x	1.C	-	-
46	NL	M	58	4h	-	-	x	1.B/ 2.B	x	1.C	-	-
47	NL	F	78	3h 40	-	-	x	1.B/ 2.B	-	-	-	-
48	NL	M	53	7h 25	-	-	-	-	-	-	x	1.D
49	NL	M	56	3h 50	-	-	-	-	-	-	x	1.D
50	NL	M	39	3h 30	-	-	-	-	-	-	x	1.D
51	NL	F	55	8h 30	-	-	-	-	-	-	x	1.D

x: RT-PCR

o: Exiqon arrays

-: not available

NL: no lesions

LBD: Lewy body disease pathology (1-6 refers to Braak staging)

Supl.T.2: genes with predicted target sites in the 3'UTR for svRNA2-1a, by at least 2 different algorithms

Gene	miRanda	miRDB	miRWalk	PITA	Targetscan	microCosm	total
BCAT2	1		1	1	1	1	5
EN1	1		1	1	1	1	5
JMJD2A	1	1	1	1	1		5
KCNA1	1		1	1	1	1	5
KIAA0774	1		1	1	1	1	5
SEPT5	1	1	1	1	1		5
TBX19	1		1	1	1	1	5
TLX3	1		1	1	1	1	5
TRIM54	1		1	1	1	1	5
ARSG			1	1	1	1	4
BAI1	1			1	1	1	4
BHLHB5	1		1	1	1		4
BRSK2			1	1	1	1	4
C17orf82			1	1	1	1	4
C19orf47	1		1	1	1		4
CALM1	1		1	1	1		4
CAMKK2	1		1	1	1		4
CDC123	1			1	1	1	4
CHD3	1			1	1	1	4
CNN1	1			1	1	1	4
CSNK2A2	1			1	1	1	4
CX3CL1			1	1	1	1	4
DAG1	1		1	1	1		4
DAGLA	1		1	1	1		4
DENND1A	1		1	1		1	4
DERL3			1	1	1	1	4
DGCR14	1		1	1	1		4
DMPK	1			1	1	1	4
EFHD2	1		1	1	1		4
EGR3	1		1	1	1		4
ENG	1			1	1	1	4
FA2H			1	1	1	1	4
FAM109B			1	1	1	1	4
FAM43B			1	1	1	1	4



FBXO41	1		1	1	1		4
FLJ40125	1	1		1	1		4
FOXN3	1		1	1	1		4
GNG3	1			1	1	1	4
GNL3L	1		1	1	1		4
GPR107	1		1	1	1		4
HSPB6		1		1	1	1	4
KIAA1539	1		1	1		1	4
KPNA6	1		1	1	1		4
L3MBTL2			1	1	1	1	4
LASS3	1		1	1	1		4
LMTK3	1			1	1	1	4
LRTM2			1	1	1	1	4
LZTS2	1			1	1	1	4
MAPKAPK3	1		1	1	1		4
MBD6	1		1	1		1	4
MINK1	1		1	1	1		4
MUPCDH			1	1	1	1	4
MYF6			1	1	1	1	4
NAV1	1		1	1	1		4
NEUROG1	1			1	1	1	4
NPEPPS	1		1	1	1		4
PPARD	1		1	1	1		4
PPP1CA	1			1	1	1	4
PRMT2			1	1	1	1	4
PRSS22			1	1	1	1	4
PVR	1		1	1	1		4
RANBP9	1			1	1	1	4
RASGEF1C	1			1	1	1	4
RNF24			1	1	1	1	4
RTN4R			1	1	1	1	4
RUNX3			1	1	1	1	4
SBNO2			1	1	1	1	4
SHROOM4	1		1	1	1		4
SLC25A35	1		1	1		1	4
SLC35A2	1			1	1	1	4
SLC6A1			1	1	1	1	4
SMC1A	1		1	1	1		4
SMPDL3B			1	1	1	1	4
SPRED2	1		1	1	1		4
TMEM62	1			1	1	1	4

TMEM88			1	1	1	1	4
TRABD			1	1	1	1	4
TSPAN14	1		1	1	1		4
TULP4		1	1	1	1		4
UBE2M	1			1	1	1	4
UVRAG	1		1	1	1		4
WBSCR18	1		1	1		1	4
WDR68	1		1	1	1		4
ZFPL1	1			1	1	1	4
ZNF385A	1		1	1	1		4
ABCF1	1		1			1	3
ADAM33				1	1	1	3
ADCY9			1	1	1		3
ALDH1A3	1		1	1			3
ALPK3			1	1	1		3
ANKRD45			1	1	1		3
ANTXR1	1		1	1			3
AP4E1	1		1	1			3
ARHGDI1A				1	1	1	3
ATRN			1	1	1		3
B3GAT3	1			1		1	3
BARHL1				1	1	1	3
BCL3	1			1		1	3
BRD3			1	1		1	3
BRD4	1			1		1	3
BSND	1			1		1	3
BTBD12				1	1	1	3
C10orf10			1	1	1		3
C14orf181	1			1	1		3
C17orf66	1			1		1	3
C19orf12				1	1	1	3
C19orf36				1	1	1	3
C1orf76	1		1	1			3
C3orf38	1		1	1			3
C9orf25			1	1	1		3
CACNG4			1	1	1		3
CALN1			1	1	1		3
CARD9			1	1		1	3
CASKIN1			1	1		1	3
CAV1	1		1	1			3
CBFA2T2			1	1	1		3

CCDC92		1		1	1		3
CD34	1		1	1			3
CD6	1			1		1	3
CDC42EP2				1	1	1	3
CDH15				1	1	1	3
CEP27			1	1	1		3
CHD5			1	1	1		3
CHRAC1			1	1	1		3
CIDEB			1	1	1		3
CITED4	1			1		1	3
CLEC4F	1			1		1	3
CLSTN2	1			1		1	3
CNTD2			1	1	1		3
COASY			1	1		1	3
COL12A1	1		1	1			3
COL5A1				1	1	1	3
COL6A2			1	1		1	3
CPEB3	1		1		1		3
CPEB4	1		1	1			3
CRYBB3			1	1		1	3
CSH2	1			1		1	3
CSNK1E			1	1		1	3
CUX1			1	1	1		3
CYP2W1				1	1	1	3
D4S234E	1			1	1		3
DIRAS1	1			1	1		3
DLG2	1		1	1			3
DLX1			1	1	1		3
DUSP13			1	1		1	3
DUSP8			1	1		1	3
DVL1			1	1		1	3
ECH1				1	1	1	3
EDA	1		1	1			3
EHBP1L1				1	1	1	3
ENAM			1	1	1		3
ERBB2			1	1	1		3
ESPN				1	1	1	3
FAM20A				1	1	1	3
FAM53C	1			1	1		3
FANCE				1	1	1	3
FBXO39	1			1		1	3

FGF17			1	1	1		3
FLT4				1	1	1	3
FOSB	1			1	1		3
FOXP4				1	1	1	3
FXYD7				1	1	1	3
FYTTD1			1	1	1		3
GABRB3			1	1	1		3
GNB3				1	1	1	3
GNG7			1	1	1		3
GPBP1L1	1			1		1	3
GPI	1			1		1	3
GPR62	1		1	1			3
GUK1				1	1	1	3
HCST	1			1		1	3
HDLBP			1	1		1	3
HEMK1	1			1	1		3
HLA-DOA			1	1	1		3
HOOK1	1		1	1			3
HOXC5				1	1	1	3
HS1BP3				1	1	1	3
ICA1L			1	1		1	3
IGF2BP1	1		1	1			3
IKZF4	1		1	1			3
IRF2BP1	1			1	1		3
ISL1			1	1	1		3
ITGA5	1		1	1			3
JAZF1	1		1	1			3
JMJD3	1		1	1			3
JUNB	1			1		1	3
KCNAB2				1	1	1	3
KCNJ5			1	1	1		3
KCTD17				1	1	1	3
KDELC2			1	1	1		3
KIAA0515			1	1		1	3
KIAA0892				1	1	1	3
KIAA1219	1		1	1			3
KIAA1755			1	1	1		3
KIAA1853	1			1	1		3
KIF23	1		1	1			3
KIT	1		1	1			3
KLC2	1			1	1		3

KLF12	1		1	1			3
KLK5	1			1		1	3
KRAS			1	1	1		3
LAMC2	1		1	1			3
LENG8	1			1	1		3
LHX5				1	1	1	3
LRCH4				1	1	1	3
MAF1	1			1		1	3
MAN1C1	1			1		1	3
MAP3K14	1			1		1	3
MARK4	1			1	1		3
MCOLN1	1			1	1		3
MECP2	1		1	1			3
MEN1				1	1	1	3
MEX3A			1	1		1	3
MGLL			1	1	1		3
MLL2	1		1	1			3
MMEL1				1	1	1	3
MOV10	1			1		1	3
MRPL19			1	1	1		3
MSI2			1	1	1		3
MT1X	1			1		1	3
MTMR7			1	1	1		3
MUC20			1	1		1	3
N-PAC	1		1	1			3
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NDUFS8				1	1	1	3
NINJ1				1	1	1	3
NKX2-3				1	1	1	3
NPR1				1	1	1	3
NTNG2	1			1		1	3
NXF1			1	1		1	3
OAZ2	1			1	1		3
OLIG2				1	1	1	3
OR2C3			1	1	1		3
OTX2	1		1	1			3
P2RX1				1	1	1	3
PAPPA2	1	1		1			3
PARP10				1	1	1	3
PAX1			1	1		1	3
PDGFRL				1	1	1	3

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PEX19			1	1	1		3
PFKFB2	1		1	1			3
PHOSPHO1				1	1	1	3
PIK3CD			1	1	1		3
PIP5K1C	1			1	1		3
PITX1				1	1	1	3
PKM2			1	1		1	3
PLXDC1			1	1	1		3
PLXNA3	1			1		1	3
PM20D1	1			1	1		3
PNKD	1			1	1		3
POLR3H	1		1	1			3
PPP1R9B	1			1		1	3
PPP2R1A	1			1		1	3
PRAF2				1	1	1	3
PRDM10	1		1	1			3
PRDM16			1	1		1	3
PSCD3			1	1	1		3
PXMP3	1		1	1			3
PYY				1	1	1	3
RABEP2				1	1	1	3
RANBP10	1		1	1			3
RASL10B			1	1	1		3
RAVER1			1	1	1		3
RAX				1	1	1	3
RELT			1	1	1		3
REN	1			1		1	3
RHOBTB2			1	1	1		3
RNF216			1	1	1		3
RNF44	1			1	1		3
RSPO4			1	1	1		3
RUVBL2	1			1	1		3
SC5DL			1	1		1	3
SCN1B	1			1		1	3
SCUBE3	1			1	1		3
SELENBP1				1	1	1	3
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SEPT11				1	1	1	3
SETD7			1	1	1		3
SFN				1	1	1	3

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SGTA			1	1	1		3
SH3PXD2A	1		1	1			3
SHANK3	1			1	1		3
SIAH2	1			1	1		3
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SLC37A1				1	1	1	3
SLC38A3				1	1	1	3
SLC6A18				1	1	1	3
SMCR8	1		1			1	3
SNTA1	1			1		1	3
SORBS3	1			1		1	3
SPI1			1	1		1	3
SPTB			1	1		1	3
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SSH2			1	1	1		3
ST3GAL2			1	1		1	3
ST8SIA2			1	1	1		3
SUV39H1	1			1	1		3
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TFEB				1	1	1	3
THAP6	1		1	1			3
THSD7B	1		1	1			3
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TMEM63C			1	1	1		3
TMUB1	1			1		1	3
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TOLLIP			1	1	1		3
TOM1L2			1	1	1		3
TRAM2			1	1	1		3
TRAPPC4	1			1		1	3
TRIM50			1	1		1	3

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TSKU				1	1	1	3
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TTC9C	1			1		1	3
TTYH1	1			1		1	3
TUBB4				1	1	1	3
TUSC1	1		1	1			3
UBL4A			1	1	1		3
USP19	1			1		1	3
VDAC3	1			1		1	3
VPS13D			1	1	1		3
WNT9B			1	1		1	3
WWC2			1	1	1		3
WWP2			1	1	1		3
ZBTB7A			1	1	1		3
ZHX3			1	1		1	3
ZKSCAN1			1	1	1		3
ZNF304	1		1	1			3
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ZNF580	1			1	1		3
ZNF618			1	1	1		3
ZNF740			1	1	1		3
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ABHD2			1	1			2
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ABLIM1			1	1			2
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ACAD11				1		1	2
ACO2				1		1	2
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ACSBG1				1	1		2
ACSF3			1	1			2
ACSM5	1			1			2
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AK1			1	1			2
AKAP3				1		1	2
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ALCAM			1	1			2
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ALG10B			1	1			2
ALS2CL			1	1			2
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ANGPTL7			1	1			2
ANK1			1	1			2
ANKFY1			1	1			2
ANKS6	1		1				2
ANPEP				1		1	2
AP2S1				1		1	2
AP3D1	1			1			2
APBB1IP				1		1	2
APBB2			1	1			2
APOL2				1	1		2
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APTX	1			1			2
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ARMC7			1	1			2

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ASXL1			1	1		2
ATCAY				1	1	2
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ATM			1	1		2
ATP10B			1	1		2
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ATP2B2			1	1		2
ATP6V0E1				1		1 2
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ATP6V1C1			1	1		2
ATPIF1			1	1		2
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BAIAP3				1		1 2
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BMP8A			1	1		2
BSDC1	1			1		2
BSN			1	1		2
BTBD14B			1	1		2
BTBD9			1	1		2
C10orf132			1	1		2
C10orf33	1					1 2
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C14orf4			1	1		2
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C4orf36				1	1	2	
C5orf38					1	1	2
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C7orf50		1		1		2	
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C9orf47	1			1		2	
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CA5B			1	1		2	
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CACYBP			1	1		2	
CAMK2G			1	1		2	
CANT1				1	1	2	
CAPS			1	1		2	
CBL			1	1		2	
CCDC113			1	1		2	
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CCND2			1	1			2
CCT5			1	1			2
CD109			1	1			2
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CD244			1	1			2
CD5L				1		1	2
CD7				1		1	2
CD74				1	1		2
CDC34				1		1	2
CDC42BPA			1	1			2
CDC42EP3				1	1		2
CDC42SE2				1	1		2
CDCP1			1	1			2
CDH2	1			1			2
CDH23			1	1			2
CDKN2A			1	1			2
CDKN2A			1			1	2
CDR2L			1	1			2
CEBPD				1	1		2
CECR2				1	1		2
CENTA2	1			1			2
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CHRM1	1			1			2
CHRNA4				1	1		2
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CLOCK			1	1			2
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CMTM4			1	1			2
CNGB1				1		1	2
CNN2				1		1	2
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CNOT8			1	1			2
CNP			1	1			2
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COL7A1	1			1			2
COQ4				1		1	2
COX18	1			1			2
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COX8A				1		1	2
CPNE7				1		1	2
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CRIP2				1	1		2
CRKL			1	1			2
CRTAP			1	1			2
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CSF2	1			1			2
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CTDSPL			1	1			2
CTF8	1			1			2
CTRB1					1	1	2
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CYYR1			1	1			2
DAK				1	1		2
DBT			1	1			2
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DENND4C			1	1			2
DERL1			1	1			2
DFNA5			1	1			2
DGCR2				1		1	2
DGKQ				1		1	2
DHRS3				1		1	2
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DKFZP566E164			1	1			2
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DNAJB2	1			1			2
DNAJC11			1	1			2
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DNAL4			1	1			2
DOC2A				1		1	2
DOLPP1			1	1			2
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DPY19L4			1	1			2
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DSCR9				1		1	2
DSG2				1		1	2
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DUOX2			1	1			2
DUSP19			1	1			2
DUSP9			1	1			2
DVL3			1	1			2
E2F4				1		1	2
E2F7			1	1			2
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EDARADD			1	1			2
EDG3			1	1			2
EDG6				1		1	2
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EGR1			1	1			2
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EIF2C1	1			1			2
ELAVL3	1			1			2
ELFN2				1	1		2
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ELOVL5	1			1			2
ELOVL7			1	1			2
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EML1				1	1		2
EMP1			1	1			2
EMX2				1	1		2
ENTPD1			1	1			2
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EPB41L1			1	1			2
EPB41L5			1	1			2
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ERRFI1			1	1			2
ETV6				1	1		2
EVC			1	1			2
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EVX1				1		1	2
EXOSC5				1		1	2
EXTL3			1	1			2
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FBXO36			1	1			2
FBXW2			1	1			2
FBXW5				1		1	2
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FDXR				1		1	2
FGD1				1	1		2
FGD2				1		1	2
FGF23			1	1			2
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FIZ1			1	1			2
FKTN			1	1			2
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FLJ39743			1	1			2
FLRT1			1	1			2
FLT3LG				1		1	2
FLYWCH1			1	1			2
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FMNL3			1	1			2
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FOXK1			1	1			2
FOXL1			1	1			2
FOXO3			1	1			2
FOXP4			1	1			2
FOXRED1				1		1	2



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GABRD				1	1	2
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GADD45B				1	1	2
GAN			1	1		2
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GINS1			1	1		2
GIPC3			1	1		2
GIT2			1	1		2
GJA1			1	1		2
GJB1				1	1	2
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GLIPR1			1	1		2
GLT25D2			1	1		2
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GRAMD4	1			1			2
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GRB2			1	1			2
GRB7				1		1	2
GREM2				1	1		2
GRIN2C				1		1	2
GRLF1				1	1		2
GSG1			1	1			2
GTF3C2			1	1			2
GTPBP3				1		1	2
GYPA	1		1				2
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HAAO				1		1	2
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HDAC10				1		1	2
HDGF				1		1	2
HEYL			1	1			2
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HIF3A				1	1		2
HIST1H2BI				1	1		2
HIVEP2	1			1			2
HN1L			1	1			2
HNT			1	1			2
HOXA3			1	1			2
HOXA7				1		1	2
HPCA				1	1		2
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WIPI2	1			1			2
WNT1	1		1				2
WNT4			1	1			2
WSCD1			1	1			2
WTIP				1	1		2
WWC3			1	1			2
YBX2				1		1	2
YIPF5				1	1		2

YPEL1			1	1			2
YPEL2			1	1			2
ZBED4			1	1			2
ZBTB3			1	1			2
ZBTB46				1		1	2
ZC3H11A	1			1			2
ZC3H3	1					1	2
ZC3H6			1	1			2
ZCCHC14			1	1			2
ZCCHC2			1	1			2
ZDHHC16				1		1	2
ZDHHC7			1	1			2
ZFAND3			1	1			2
ZFAND5			1	1			2
ZFH3			1	1			2
ZFP30			1	1			2
ZKSCAN2			1	1			2
ZMAT4			1	1			2
ZMAT5				1		1	2
ZMIZ1	1			1			2
ZMYM3			1	1			2
ZNF154			1	1			2
ZNF2			1	1			2
ZNF207			1	1			2
ZNF212				1		1	2
ZNF260			1	1			2
ZNF275			1	1			2
ZNF346	1			1			2
ZNF362			1	1			2
ZNF385B				1		1	2
ZNF445			1	1			2
ZNF511				1		1	2
ZNF529			1	1			2
ZNF545				1		1	2
ZNF607			1	1			2
ZNF629			1	1			2
ZNF641			1	1			2
ZNF660			1	1			2
ZNF697			1	1			2
ZNF771				1		1	2
ZNF784			1	1			2

ZNF81			1	1			2
ZNF831			1	1			2
ZNRF3			1	1			2
ZSCAN29			1	1			2
ZSWIM5			1	1			2

Supl. T.3. Enrichment in top biological functions of predicted targets for svRNA2-1a (Ingenuity Pathway Analysis) by at least 2 different algorithms from the following: miRWalk, miRDB, miRanda, PITA, Targetscan and MirBase.

	Functions Annotation	p-Value	Transcripts
Cellular Development	differentiation of cells	1.45E-04	ALDH1A2, ATP2B2, BHLHE22, BRSK2, CCDC92, CDH23, CUX1, DAG1, DLX1, EGR2, EMX2, EN1, ERBB2, FGFR3, HTT, ISL1, LBX1, LIF, MECP2, MNX1, NAPA, NEUROG1, NF1, NKX2-2, NOTCH1, NOTCH3, OLIG2, OTX2, POU3F2, PRKCA, S1PR4, STAT3, TBR1, TBX19, TGFA, TGM3, TIMP2, TLX3, TP73, TRH, VGF, VIP, WNT9B
	differentiation of neurons	2.03E-04	ALDH1A2, ATP2B2, BHLHE22, BRSK2, CDH23, CUX1, DLX1, EMX2, EN1, FGFR3, HTT, ISL1, LBX1, LIF, MECP2, MNX1, NAPA, NEUROG1, NKX2-2, NOTCH1, NOTCH3, OLIG2, OTX2, POU3F2, PRKCA, S1PR4, TBR1, TGFA, TGM3, TIMP2, TLX3, TP73, VGF, VIP, WNT9B
	commitment of cells	1.40E-03	DLX1, ISL1, LBX1, NKX2-2, NOTCH1, NOTCH3, OLIG2, OTX2, TLX3
	developmental process of neurons	1.56E-03	ALDH1A2, ATP2B2, BCL11B, BHLHE22, BRSK2, CDH23, CNP, CUX1, DLX1, EGR2, EMX2, EN1, ERBB2, FGFR3, GHRH, HTR4, HTT, ISL1, LBX1, LIF, MECP2, MNX1, NAPA, NEUROG1, NKX2-2, NOTCH1, NOTCH3, OLIG2, OTX2, POU3F2, PRKCA, RXRA, S1PR4, TBR1, TGFA, TGM3, TIMP2, TLX3, TP73, VGF, VIP, WNT9B
	differentiation of neuroglia	2.36E-03	CCDC92, DAG1, DLX1, EGR2, ERBB2, FGFR3, LIF, NEUROG1, NF1, NKX2-2, NOTCH1, NOTCH3, OLIG2, S1PR4, STAT3, TP73
	differentiation of oligodendrocytes	3.32E-03	DAG1, DLX1, FGFR3, NEUROG1, NF1, NKX2-2, NOTCH1, OLIG2, TP73
	developmental process of neuroglia	5.83E-03	CCDC92, DAG1, DLX1, EGR2, EIF2B3, ERBB2, FGFR3, LIF, NEUROG1, NF1, NFKBIA, NKX2-2, NOTCH1, NOTCH3, OLIG2, POU3F2, S1PR4, STAT3, TP73
	specification of neurons	7.40E-03	DLX1, NKX2-2, OLIG2, TLX3
	neurogenesis of normal cells	7.94E-03	FGFR3, HTR4, HTT, LIF, NEUROG1, NOTCH1, OTX2
	differentiation of astrocytes	8.24E-03	LIF, NEUROG1, NF1, NOTCH1, NOTCH3, OLIG2, S1PR4, STAT3
	developmental process of oligodendrocytes	9.34E-03	DAG1, DLX1, EIF2B3, FGFR3, LIF, NEUROG1, NF1, NKX2-2, NOTCH1, OLIG2, TP73
Cell-To-Cell Signaling and Interaction	neurotransmission	1.55E-04	CACNA1B, CDH2, CHRM1, CHRNA4, CYTH1, DOC2A, EGR3, EPHB2, HTR4, HTT, LEP, NFKBIA, PARK2, SLC8A3, SNCG, SNPH, SSH1, STX1A, VDAC3
	synaptic transmission	3.59E-04	CDH2, CHRM1, CHRNA4, CYTH1, DOC2A, EGR3, EPHB2, HTR4, HTT, LEP, NFKBIA, SLC8A3, SNCG, SNPH, SSH1, STX1A, VDAC3
	neurotransmission of synapse	5.79E-03	CHRM1, CHRNA4, EGR3, HTT, PARK2, SLC8A3, SNCG, STX1A, VDAC3
	neurotransmission of neurons	9.47E-03	CACNA1B, CDH2, CYTH1, DOC2A, HTR4, HTT, LEP, SNPH, SSH1
	neurotransmission	1.55E-04	CACNA1B, CDH2, CHRM1, CHRNA4, CYTH1, DOC2A, EGR3, EPHB2, HTR4, HTT, LEP, NFKBIA, PARK2, SLC8A3, SNCG, SNPH, SSH1, STX1A, VDAC3

## Nervous System Development and Function

differentiation of neurons	2.03E-04	ALDH1A2, ATP2B2, BHLHE22, BRSK2, CDH23, CUX1, DLX1, EMX2, EN1, FGFR3, HTT, ISL1, LBX1, LIF, MECP2, MNX1, NAPA, NEUROG1, NKX2-2, NOTCH1, NOTCH3, OLIG2, OTX2, POU3F2, PRKCA, S1PR4, TBR1, TGFA, TGM3, TIMP2, TLX3, TP73, VGF, VIP, WNT9B
synaptic transmission	3.59E-04	CDH2, CHRM1, CHRNA4, CYTH1, DOC2A, EGR3, EPHB2, HTR4, HTT, LEP, NFKBIA, SLC8A3, SNCG, SNPH, SSH1, STX1A, VDAC3
formation of neurons	1.47E-03	NEUROG1, NKX2-2, NOTCH1, OTX2, TBR1, TLX3
migration of neurons	1.86E-03	APBB2, CAMKK2, CDH2, DCX, DLX1, EBF1, EPHB2, ERFF1, GJA1, GNA12, MDGA1, MNX1, NAV1, NEUROG1, NFIX, NRP1, PEX2, PIP5K1C, POU3F2, RAC1, SATB2, SEMA4D, TBR1, TLX3
differentiation of neuroglia	2.36E-03	CCDC92, DAG1, DLX1, EGR2, ERBB2, FGFR3, LIF, NEUROG1, NF1, NKX2-2, NOTCH1, NOTCH3, OLIG2, S1PR4, STAT3, TP73
development of cerebellum	3.32E-03	ATP2B2, CCND2, CDKN2A, EN1, FGFR3, LHX5, MECP2, OTX2, SOX4
differentiation of glial cells	3.32E-03	DAG1, DLX1, FGFR3, NEUROG1, NF1, NKX2-2, NOTCH1, OLIG2, TP73
development of peripheral nervous system	4.04E-03	BAI1, EGR2, EGR3, ERBB2, NF1, NRP1, SOX8
neurogenesis	4.26E-03	DCX, DVL1, FGFR3, HTR4, HTT, IGFBP5, ISL1, LBX1, LIF, NEUROG1, NF1, NFATC2, NFIX, NOTCH1, NOTCH3, NRP1, OLIG2, OTX2, PLXNA3, RAC1, ROBO1, RTN4R, SEMA4D, SEMA5A, SEMA7A, SMAD2, TSC1, TSC2
quantity of central nervous system cells	5.23E-03	CCND2, EN1, GHRH, IL10, LEP, LHX5, LIF, NF1, RAC1, TGFA, TP73, TSC1, TSC2
development of forebrain	5.73E-03	ALDH1A2, EMX2, FGFR3, GRLF1, HTT, NDST1, NF1, NOTCH1, NOTCH3, OTX2, ST8SIA2, TP73
neurotransmission of synapse	5.79E-03	CHRM1, CHRNA4, EGR3, HTT, PARK2, SLC8A3, SNCG, STX1A, VDAC3
development of brain	6.70E-03	ALDH1A2, EMX2, EN1, FGFR3, GRLF1, HTT, NDST1, NF1, NOTCH1, NOTCH3, OTX2, ST8SIA2, TP73
formation of serotonergic neurons	7.34E-03	NKX2-2, OTX2
maintenance of radial glial cells	7.34E-03	NOTCH1, STAT3
proliferation of motor neurons	7.34E-03	ISL1, STAT3
vacuolation of myelin sheath	7.34E-03	GJB1, GJC2
specification of neurons	7.40E-03	DLX1, NKX2-2, OLIG2, TLX3
neurogenesis of normal cells	7.94E-03	FGFR3, HTR4, HTT, LIF, NEUROG1, NOTCH1, OTX2
differentiation of astrocytes	8.24E-03	LIF, NEUROG1, NF1, NOTCH1, NOTCH3, OLIG2, S1PR4, STAT3

	quantity of neurons	9.46E-03	ATM, CCND2, CX3CL1, DLX1, EGR2, EN1, ERBB2, HTR4, HTT, IL10, LBX1, LEP, MECP2, NEUROG1, NOTCH1, OLIG2, PARK2, SHC2, TBR1, TFAP2A, TGFA, TP73
	neurotransmission of neurons	9.47E-03	CACNA1B, CDH2, CYTH1, DOC2A, HTR4, HTT, LEP, SNPH, SSH1
	development of nervous system	9.96E-03	ALDH1A2, BAI1, DCX, EGR2, EGR3, EMX2, EN1, ERBB2, EVL, FGFR3, GRLF1, HTT, LATS2, NDST1, NF1, NOTCH1, NOTCH3, NPTX1, NRP1, OTX2, PARK2, SH3GL1, SOX8, ST8SIA2, TLX3, TP73
Neurological Disease	demyelination of nervous tissue	5.50E-03	DAG1, IKBKG, ITGB4
	demyelination of sciatic nerve	7.34E-03	DAG1, ITGB4
	neurological disorder of nervous tissue	2.05E-02	DAG1, HTT, IKBKG, ITGB4
	tauopathy	2.13E-02	CD74, CDKN2A, CNP, DCX, GABBR2, HTR6, ICAM1, LDLR, MFN2, NFATC2, NOS3, PRKCA, RTN4R, SCN1B, STAT3, STUB1, TAGLN, TIMP3, TP73

Reference set: Ingenuity Knowledge Base (Genes Only) Relationship to include: Direct and Indirect Includes Endogenous Chemicals Optional Analyses: My Pathways My List  
Filter Summary: Consider only molecules and/or relationships where (species = Human OR Rat OR Mouse) AND (confidence = Experimentally Observed OR High (predicted)) AND (tissues = Olfactory Bulb OR Nervous System not otherwise specified OR Hypothalamus OR Hippocampus OR Cerebral Cortex OR Other Nervous System OR Amygdala OR Cerebellum OR Pituitary Gland OR Substantia Nigra OR Dorsal Root Ganglion) AND (data sources = BIND OR BIOGRID OR ClinicalTrials.gov OR Cognia OR DIP OR Gene Ontology (GO) OR GVK Biosciences OR Ingenuity Expert Findings OR Ingenuity ExpertAssist Findings OR INTACT OR Interactome studies OR Kyoto Encyclopedia of Genes and Genomes (KEGG) OR MINT OR MIPS OR Obesity Gene Map Database OR TarBase OR TargetScan Human)









Supl. T.4. Enrichment in top biological functions of deregulated transcripts upon svRNA2-1a overexpression (Ingenuity Pathway Analysis)

	Functions Annotation	p-Value	Transcripts
Neurological Disease	movement disorder	8.85E-05	ATN1, SNCB, <b>SOX4</b> , SPARCL1
	ataxia of mice	2.34E-04	ATN1, SOX4
	neurological disorder	1.73E-03	ATN1, ATP1A3, SNCB, <b>SOX4</b> , SPARCL1, TXNIP
	schizophrenia	4.46E-03	ATP1A3, SNCB, TXNIP
	hydrocephalus of mice	6.37E-03	SOX4
	Parkinson's disease	1.23E-02	SNCB, SPARCL1
	tremor of mice	1.27E-02	ATN1
Nervous System Development and Function	differentiation of V2 interneurons	2.13E-03	LHX3
	motor function of mice	1.90E-02	ATN1
	quantity of nerve ending	2.32E-02	SNCB
	guidance of motor axons	3.15E-02	LHX3
	proliferation of oligodendrocytes	3.35E-02	<b>SOX4</b>
DNA Replication, Recombination, and Repair	formation of nuclear foci	2.13E-03	ATN1
	formation of nuclear foci	2.13E-03	ATN1

Cellular Assembly Organization	size of gap junctions	6.37E-03	SNCB
	quantity of nerve ending	2.32E-02	SNCB

In bold green deregulated transcripts with predicted sites in the 3UTR by at least 2 algorithms.

Reference set: Ingenuity Knowledge Base (Genes Only) Relationship to include: Direct and Indirect Includes Endogenous Chemicals Optional Analyses: My Pathways My List  
Filter Summary: Consider only molecules and/or relationships where (species = Human OR Rat OR Mouse) AND (confidence = Experimentally Observed OR High (predicted)) AND (tissues = Olfactory Bulb OR Nervous System not otherwise specified OR Hypothalamus OR Hippocampus OR Cerebral Cortex OR Other Nervous System OR Amygdala OR Cerebellum OR Pituitary Gland OR Substantia Nigra OR Dorsal Root Ganglion) AND (data sources = BIND OR BIOGRID OR ClinicalTrials.gov OR Cognition OR DIP OR Gene Ontology (GO) OR GVK Biosciences OR Ingenuity Expert Findings OR Ingenuity ExpertAssist Findings OR INTACT OR Interactome studies OR Kyoto Encyclopedia of Genes and Genomes (KEGG) OR MINT OR MIPS OR Obesity Gene Map Database OR TarBase OR TargetScan Human)

Supl.T.5. Taqman rRT-PCR assays

<b>sncRNA</b>	<b>miRNA assay ID</b>
<b>hsa-miR-886-5p</b>	002193
<b>hsa-miR-16</b>	000391
<b>RNU58B</b>	001206
<b>RNU6B</b>	001093
<b>GeneName</b>	<b>taqman assay ID</b>
<b>ATRN</b>	Hs00201343_m1*
<b>MAGI2</b>	Hs00202321_m1*
<b>PPP1R9A</b>	Hs01044144_m1*
<b>SPARCL1</b>	Hs00949886_m1*
<b>ST3GAL6</b>	Hs00196086_m1*
<b>SYT14</b>	Hs00542044_m1*
<b>TXNIP</b>	Hs00197750_m1*
<b>DHX40</b>	Hs00226332_m1*
<b>SFRS6</b>	Hs00740177_g1*
<b>MIB1</b>	Hs00379185_m1*
<b>SOX4</b>	Hs00268388_s1*
<b>ATP1A3</b>	Hs00265163_m1*
<b>ATP13A2</b>	Hs00223032_m1*
<b>ATXN2L</b>	Hs00387643_m1*
<b>CRTC1</b>	Hs00257715_m1*
<b>LHX3</b>	Hs01033412_m1*
<b>LYNX1</b>	Hs00418164_m1*
<b>NOTCH4</b>	Hs00965889_m1*
<b>NPB</b>	Hs00752127_s1*
<b>SNCB</b>	Hs00608185_m1*
<b>VAMP2</b>	Hs00360269_m1*
<b>POLR2J</b>	Hs00196523_m1
<b>GAPDH</b>	Hs03929097_g1
<b>ACTB</b>	Hs99999903_m1*
<b>RPL13A</b>	Hs01926559_g1*
<b>GUSB</b>	Hs00939627_m1*
<b>M-RIP</b>	Hs00819388_m1*
<b>POLR2F</b>	Hs00222679_m1*
<b>B2M</b>	Hs99999907_m1

Supl.T.6. miRNA mimics and siRNAs

miRNA mimics	mature target sequence 5' - 3'	Manufacturer	reference	nM
hsa-miR-886-5p (svRNA2-1a)	CGGGUCGGAGUUAGCUCAAGCGG	Pre-miR miRNA precursor (Ambion)	PM12256	5
scrambled control	NOT AVAILABLE	Pre-miR miRNA precursor (Ambion)	AM17100	5

siRNAs	sequence 5' - 3'	Manufacturer	reference	nM
Dicer	GCUCGAAAUCUUACGCAAUA dtdt	Dharmacon	custom	100
Drosha	AACGAGUAGGCUUCGUGACUU dtdt	Dharmacon	custom	100
scrambled 1	GCGACGUUCCUGAAACCAC dtdt	Dharmacon	custom	100
scrambled 2	CGUUACCGCGGAAUACUUCGA dtdt	Dharmacon	custom	100

nM concentration