Supplementary Table 6. Groups of molecules and genes altered in both postmortem brains and the dentate gyrus (DG) and hippocampus (HC) of Shn-2 KO mice.

	DG Microarray (schizophrenia)		DG Genechip		DG Proteome		HC Genechip		HC Proteome	
	Altar et al.	Shn2 KO mice	P value	Fold Change	P value	Fold Change	P value	Fold Change	P value	Fold Change
Aldo-Keto Reductase	AKR1A1	Akr1b3			0.0057	1.4	0.0276	−1.05		
	AKR1B1	Akr1a4					0.0254	−1.05		
		Akr1c18	0.0038	1.27			0.0216	1.36		
		Akr1							0.0370	−1.21
		Aldoa							0.0100	1.17
ATP related	ATP6V1E1	Atp6v1a			3.60E-04	1.46				
	ATP5A1	Atp5a1			0.0026	−1.17			0.0260	1.13
	ATP1B1	Atp6v1b2			0.0014	1.42				
		Atp2b2	0.0014	1.36						
		Atp5k			0.0042	−1.99			1.70E-03	−1.66
		Atp5f1/Psmb1			0.0073	−1.10				
		Atp5d			0.032	−1.15			0.0200	−1.31
		Atp6v1g2					0.0118	1.06		
		Atp6v0e2					0.0120	1.06		
		Atp6v1e1					0.0242	1.05		
		Atp6v0d2					0.0483	−1.21		
		Atp5g3					0.0123	−1.06		
		Atp5h					0.0350	−1.07		
		Atp11c	4.00E-04	1.33						
		Atp2b3	0.0016	1.30						
		Atp2c1	5.30E-06	−1.25						
		Atp2a3	4.00E-04	1.22						
		Atp6v1g1	4.50E-07	1.21						
Cytochrome related	UQCRFS1	Uqcrfs1			0.02	−1.12			0.0180	−1.41
		Ubcrc2			0.008	−1.17				
	CYC1	Cyc1					0.0325	−1.08		
	SCO1	Cox5b			4.20E-04	1.40				
	COX7A2	Uqcrb			0.01	1.17				
	CYB5R3	Uchl1			0.00073	1.4			0.0480	1.12
		Cyp3a13					0.0025	1.11		
		Cybrd1					0.0030	1.65		

		Cyba					0.0195	1.31		
		Cyb561	0.0049	−1.28						
		Uqcrh					0.0470	−1.08		
Glucose phosphate isomerase	GPI	Gpi1			0.013	−1.10	0.0491	−1.03		
NADH dehydrogenase	NDUFB2	Ndufa10			2.60E−04	−1.15	0.0417	1.12		
	NDUFB5									
	NDUFS4									
		Ndufs1							0.0350	−1.17
		Ndufs8							0.0420	−1.09
Phosphoglycerate related	PGAM1								0.0030	−1.17
		Pgk1			0.033	−1.06				
		Phgdh	0.0022	−1.44			0.0393	−1.10	0.0320	1.27
Proteasome	PSMC6	Psma6			0.04	−1.05				
	PSMD8	Psmb5			2.90E−05	−1.16				
	PSMD9	Psmb1 / Atp5f1			0.0073	−1.10				
	PSME1	Psmb8					0.0386	1.23		
	PSMA1	Psmg2	2.30E−04	−1.27						
	PSMB6									
Ubiquitin related	UCHL1	Uchl1			7.30E−04	1.40			0.0480	1.12
	UBB	Ubb							0.0054	−1.60
	UBE2D1	Uchl3					0.0120	−1.25		
	UBL4A	Usp22					0.0017	1.15		
		Usp29	6.60E−06	1.90			0.0034	1.18		
		Ubl5					0.0042	1.38		
		Ube2l3					0.0105	1.10		
		Ube2b					0.0116	−1.06		
		Usp22					0.0130	1.14		
		Ube2d2					0.0140	1.09		
		Ube2e2					0.0168	1.17		
		Usp38					0.0192	1.15		
		Usp16					0.0220	1.14		
		Usp40					0.0391	−1.24		
		Wwp2					0.0444	−1.18		
		Usp39					0.0476	1.05		
		Usp25					0.0487	1.17		
		Ups48	0.0035	1.21						

		Usp27x	0.0049	1.27				
		Ube2v2	0.0006	1.24				
		Uhrf2	0.0020	−1.27				
		Hace1	0.0013	−1.43				
		Nub1	0.0050	1.22				
Calbindin	CALB1	Calb1	0.0010	−5.36			1.42E−05	−2.02
Syntaxin related	STX8	Stx18			0.0031	1.23		
		Stxbp6					0.0123	1.32
		Stx6	0.0029	1.28			0.0337	1.13
		Stx4a					0.0342	−1.19
		Stx2	0.0029	−1.45				
		Stxbp3a	0.0010	1.42				
		Stxbp1	0.0002	1.24				

Downregulated genes or proteins

Upregulated genes or proteins

Genes or proteins whose direction of the regulation is not consistent in Shn−2 KO mice