Supplementary Table 9. Expressions of classical inflammatory marker genes in the brains of Shn-2 KO mice and postmortem brains of schizophrenia.

				Shn-2 KO mice				SCZ (1)			
		Symbol	Description	Probe ID/ ref seq	Assay	Area	Fold change	P value	Probe ID	Fold change	P value	Related supplemental table
Complement		C1qa	complement component 1, q subcomponent, alpha polypeptide	1417381_at	expression microarray	mPFC	1.31	0.0019	218232_at	1.78	1.6E-05	2
					expression microarray	DG	1.28	0.0303				4
		C1qb	complement component 1, q subcomponent, beta polypeptide	1437726_x_at	expression microarray	mPFC	1.37	0.0080	202953_at	2.38	2.6E-05	2
		C1qc	complement component 1, q subcomponent, C chain	1449401_at	expression microarray	mPFC	1.39	0.0004	225353_s_at	2.20	0.0001	2
					expression microarray	DG	1.33	0.0239				4
		C1ql2	complement component 1, q subcomponent-like 2	1444687_at	expression microarray	DG	1.63	0.0088				4
		C1ql3	complement component 1, q subcomponent-like 3	1425176_at	expression microarray	DG	-1.48	0.0151				4
		C2	complement component 2 (within H-2S)	1457664_x_at	expression microarray	DG	1.29	0.0223	1554533_at	-1.02	0.2710	4
		C4b	complement component 4B (Childo blood group)	1418021_at	expression microarray	DG	2.46	0.0028				4
		Cfh	complement component factor h	1423153_x_at	expression microarray	DG	1.57	0.0081	213800_at	1.02	0.4178	4
HLA-induction		H2-Aa (HLA-DQA1)	histocompatibility 2, class II antigen A, alpha	1435290_x_at	expression microarray	mPFC	1.41	0.0060	212671_s_at	1.25	0.0788	10 (2)
					expression microarray	DG	2.71	0.0026				4
		H2-Ab1 (HLA-DQB1)	histocompatibility 2, class II antigen A, beta 1	1450648_s_at	expression microarray	mPFC	1.27	0.0270	212998_x_at	1.29	0.0390	2, 10 (2)
		H2-T23 (HLA-E)	histocompatibility 2, class II antigen Q, alpha 1	1449556_at	expression microarray	mPFC	-1.30	0.0060	200905_x_at	1.24	0.0095	10 (2)
		H2-Ea (HLA-DRA)	histocompatibility 2, class II antigen E alpha	1422892_s_at	expression microarray	DG	1.69	0.0191	210982_s_at	1.36	0.0578	4
		H2-D1	histocompatibility 2, D region locus 1	1427651_x_at	expression microarray	DG	1.47	0.0434				4
Cytokines	pro-inflammatory	Il1a	interleukin 1 alpha	NM_010554	quantitative PCR	HIPP	1.34	0.0817	210118_s_at	1.01	0.4413	
				1421473_at	expression microarray	mPFC	1.20	0.0444				
					expression microarray	DG	1.01	0.9189				
		Il1b	interleukin 1 beta	NM_008361	quantitative PCR	HIPP	-1.11	0.6230	39402_at	1.04	0.1604	
				1449399_a_at	expression microarray	mPFC	1.21	0.0327				
					expression microarray	DG	1.09	0.0596				
		Il2	interleukin 2	1449990_at	expression microarray	mPFC	-1.04	0.2027	217181_at	-1.01	0.3951	
					expression microarray	DG	1.03	0.5787				
		Il3	interleukin 3	1450566_at	expression microarray	mPFC	1.03	0.7002	207906_at	-1.04	0.2353	
					expression microarray	DG	1.08	0.1157				
		Il6	interleukin 6	NM_031168	quantitative PCR	HIPP	2.06	0.0746	243977_at	-1.02	0.2821	
				1450297_at	expression microarray	mPFC	1.15	0.0470				
					expression microarray	DG	1.00	0.9975				
		Il12a	interleukin 12a	1425454_a_at	expression microarray	mPFC	-1.36	0.1521	207160_at	-1.01	0.3319	
					expression microarray	DG	1.13	0.0847				
		Il15	interleukin 15	1418219_at	expression microarray	mPFC	1.04	0.3897	217372_at	1.02	0.2544	
					expression microarray	DG	-1.06	0.4606				
		Il17a	interleukin 17 alpha	1421672_at	expression microarray	mPFC	1.06	0.3669	205707_at	1.18	0.0004	
					expression microarray	DG	-1.09	0.1381				
		Il18	interleukin 18	1417932_at	expression microarray	mPFC	1.02	0.5895	206295_at	1.09	0.0631	
					expression microarray	DG	-1.09	0.0654				
		Il31	interleukin 31	1430001_at	expression microarray	mPFC	-1.05	0.1754	1553032_at	-1.00	0.4948	
					expression microarray	DG	1.06	0.1675				
		Tnf	tumor necrosis factor	NM_013693	quantitative PCR	HIPP	-1.12	0.6312	207113_s_at	1.04	0.1065	

		(tumor necrosis factor alpha)	1419607_at	expression microarray	mPFC	−1.00	0.9904				
				expression microarray	DG	1.09	0.2969				
	Ccl2	chemokine (C-C motif) ligand 2	NM_011333	quantitative PCR	HIPP	1.70	0.0878	216598_s_at	1.16	0.2467	
			1420380_at	expression microarray	mPFC	1.04	0.3637				
				expression microarray	DG	1.20	0.0657				
	Ccl8	chemokine (C-C motif) ligand 8	1419684_at	expression microarray	mPFC	1.35	2.9E-05	214038_at	−1.09	0.0635	
				expression microarray	DG	1.36	0.0012				4
	Ccl17	chemokine (C-C motif) ligand 17	1419413_at	expression microarray	mPFC	−1.02	0.8010	226960_at	1.03	0.1761	
				expression microarray	DG	1.22	0.0252				4
	Ccl27a	chemokine (C-C motif) ligand 27A	1430375_a_at	expression microarray	mPFC	−1.32	0.0024	207955_at	−1.00	0.4766	
				expression microarray	DG	−1.44	2.1E-08				4
	Cxcl9	chemokine (C-X-C motif) ligand 9	1456907_at	expression microarray	mPFC	−1.04	0.5194	1560791_at	−1.01	0.4244	
				expression microarray	DG	1.13	0.0142				
	Cxcl10	chemokine (C-X-C motif) ligand 10	1418930_at	expression microarray	mPFC	1.01	0.8429	204533_at	1.17	0.1879	
				expression microarray	DG	1.50	0.1164				
	Cxcl16	chemokine (C-X-C motif) ligand 16	1449195_s_at	expression microarray	mPFC	1.06	0.3457	223454_at	1.13	0.0697	
				expression microarray	DG	1.26	0.0435				4
	Ifnb1	interferon beta 1, fibroblast	NM_010510	quantitative PCR	HIPP	−1.08	0.6360	208173_at	1.00	0.4712	
			1422305_at	expression microarray	mPFC	1.05	0.6214				
				expression microarray	DG	1.19	0.1535				
	Ifng	interferon gamma	1425947_at	expression microarray	mPFC	−1.13	0.0122	210354_at	−1.01	0.3638	
				expression microarray	DG	−1.00	0.9683				
anti-inflammatory	Il4	interleukin 4	1449864_at	expression microarray	mPFC	−1.10	0.2368	207539_s_at	1.05	0.0633	
				expression microarray	DG	1.00	0.9691				
	Il5	interleukin 5	1450550_at	expression microarray	mPFC	1.01	0.7264	207952_at	1.02	0.3105	
				expression microarray	DG	−1.12	0.0173				
	Il10	interleukin 10	1420802_at	quantitative PCR	HIPP	−1.23	0.7710	207433_at	1.02	0.2500	
				expression microarray	mPFC	−1.02	0.6765				
				expression microarray	DG	−1.03	0.7388				
	Il13	interleukin 13	1420802_at	expression microarray	mPFC	−1.01	0.9250	207844_at	1.02	0.3450	
				expression microarray	DG	−1.06	0.1339				
	Il16	interleukin 16	1448686_at	expression microarray	mPFC	−1.16	0.0667	1555016_at	1.04	0.1071	
				expression microarray	DG	−2.38	0.0008				4
	Tgfb1	transforming growth factor, beta 1	1420653_at	expression microarray	mPFC	1.32	0.0212	203084_at	1.04	0.2116	
				expression microarray	DG	1.03	0.6899				

Abbreviations: HIPP, hippocampus; DG, dentate gyrus; PFC, medial prefrontal cortex; BA10, Brodmann area 10; SCZ, schizophrenia

Upregulated genes (fold change > 1.20, and P < 0.05)

Downregulated gene (fold change < −1.20, and P < 0.05)

No probe/no human homologue

(1) Genes differentially expressed in the BA10 of SCZ postmortem brain.
Maycox PR, Kelly F, Taylor A, Bates S, Reid J, Logendra R, et al. Analysis of gene expression in two large schizophrenia cohorts identifies multiple changes associated with nerve terminal function. Mol. Psychiatry. 2009; 14: 1083-1094.

(2) up-regulated in superior temporal cortex and anterior prefrontal cortex of SCZ postmortem brain.
Barnes MR, Huxley-Jones J, Maycox PR, Lennon M, Thornber A, Kelly F, et al. Transcription and pathway analysis of the superior temporal cortex and anterior prefrontal cortex in schizophrenia. Journal of Neuroscience Research. 2011; 89: 1218-1227.