Supporting Information:

Table S1. Complete assessment schedule for the monkey infants whose social testing is presented in the current research report.

Table S2. Monoamine metabolites in CSF of 4-month old rhesus monkey infants

Table S3. [<sup>11</sup>C]-Raclopride binding potentials from PET imaging evaluating of DRD2 in striatum of 12-month old infants.

Table S4. Definition of temperament descriptors for ratings of temperament of 3-4 month old infants.

Table S1. Col	mplete Asse	ssment Schedule		
Age	Sessions	Assessment	Apical variable	
Day of birth	1	CBC, blood samples for iron status and	Body weight, hemoglobin	
		lymphocyte assay, morphometrics		
2-5 weeks	1/week	Oral iron supplement/placebo		
3-4 months	1 day	Biobehavioral assessment		
		Home cage behavior	<u>Not reported</u>	
		Cortisol response	<u>Not reported</u>	
		Novel object contact	<u>Not reported</u>	
		Human Intruder	<u>Not reported</u>	
		Adult nonsocial/aggression video	Time looking at nonsocial	
			and aggressive video	
			<u>segments</u>	
		Temperament rating	Rating on 16 temperamen	
			<u>scales</u>	
4 months	1	CSF sample	<u>5HIAA, HVA</u>	
6 months	1	CBC, blood samples for iron status,	Body weight, hemoglobin	
		morphometrics		
4-6 months	1	Weaning		
4-8 months	3/week	WGTA training		
7-8 months	2	Social buffering	Change in plasma cortisol	
8-12 months	1-2/week	Social dyadic interaction	Affiliation behavior	
8-11 months	3-5/week	Reward devaluation (WGTA)	<u>Not reported</u>	
11 months	3	Reward delay (WGTA)	Not reported	
11-12 months	2	Social intruder	Proximity to intruder	
12 months	1	CBC, blood samples for iron status,	Body weight, hemoglobin	
10 months	Odeve	morphometrics	Not you out od	
12 months	2 days 3	Home cage activity monitoring	Not reported	
12-14 months 14-18 month	5/week	Picture-elicited aggression	Fear, aggressive behavior	
14-16 1101101	5/week	Fixed Interval and Continuous	<u>Not reported</u>	
		Performance Test (operant training to		
16-18 months	5/week	criteria and drug response) Cognitive puzzles and mazes	Not reported	
18 months	5/week	Reward discounting	Not reported Not reported	
18-24 months	1	PET scan	Binding potential	
22.5 months	1	CBC, blood samples for iron status,	Body weight, hemoglobin	
	'	morphometrics		
22.5 months	2 days	Home cage activity monitoring	Not reported	
months			1.000000	

## Table S1. Complete Assessment Schedule

Trible 52. Opt monounne neutoones at Thomas of age							
	hi-MAOA ID	hi-MAOA IS	low-MAOA ID	low-MAOA IS			
	n=5	n=4	n=4	n=4			
5HIAA (ng/mL)	$103.98 \pm 12.28^{1}$	$101.22 \pm 11.64$	$100.84 \pm 11.29$	$98.80 \pm 8.41$			
HVA (ng/mL)	$469.73 \pm 23.60$	$448.16 \pm 63.81$	$451.25 \pm 22.70$	$437.44 \pm 56.15$			
HVA/5HIAA	$4.65 \pm 0.28$	$4.38 \pm 0.22$	$4.65 \pm 0.61$	$4.39 \pm 0.27$			

TABLE S2. CSF monoamine metabolites at 4 months of age

<sup>1</sup> Mean ± SEM, no statistical group differences by two-way ANOVA.

	01	1	1	0	
Location		hi-MAOA ID	hi-MAOA IS	low-MAOA ID	low-MAOA IS
		n=5	n=4	n=4	n=4
Left caudate		$4.93 \pm 0.42$	$5.64 \pm 0.25$	$4.68 \pm 0.49$	$4.22 \pm 0.60$
Right caudate		$4.97 \pm 0.35$	$5.66 \pm 0.17$	$4.57 \pm 0.44$	$4.21 \pm 0.58$
Left putamen		$5.33 \pm 0.41^{1}$	$5.85 \pm 0.14$	$5.01 \pm 0.47$	$4.40 \pm 0.51$
Right putamen		$5.37 \pm 0.37$	$6.08 \pm 0.13$	$5.15 \pm 0.45$	$4.37 \pm 0.48$

**TABLE S3.** Binding potentials for dopamine D2 receptors during PET

 $^{-1}$  Mean ± SEM, no group difference in two-way ANOVA at each site

## Table S4. Temperament Ratings

At the end of the 25-hr assessment, each animal was rated on a 1-7 scale for each of 16 traits. Here are variable names (the capitalized variable is the name of the trait) and definitions.

Active, energetic: Moves about a lot, distance traveled by walking, running, climbing, or jumping. Not lethargic.

Aggressive: High frequency of displays, threats.

Bold: fearless; Is daring, not restrained or tentative. Not timid, shy, or coy.

Calm, equable: Reacts in an even, calm way; is not easily disturbed. Not agitated. Restful, peaceful.

Confident: Behaves in a positive, assured manner, not restrained or tentative.

Curious, exploratory, inquisitive: Readily explores new situations, seeking out or investigating novel situation.

Depressed: Subject appears isolated, withdrawn, sullen, brooding, and has reduced activity.

Fearful: Fear grins; retreats readily from others or from outside disturbances.

Flexible, not rigid: Adapts to situations. Is able to accommodate new ways of doing things.

Gentle: Subject responds to technicians in an easy-going, kind, and considerate manner. Subject is not rough or threatening.

Nervous, anxious, not calm: Jittery, anxious, seems to be anxious about everything.

Playful: Engages in self-play (hanging, swinging, jumping), or object play.

Slow: Moves and sits in a relaxed manner; moves slowly and deliberately, not easily hurried.

Tense: Shows restraint in posture and movement; carries the body stiffly, which suggests a shrinking tendency, as if trying to pull back and be less conspicuous.

Timid: Subject is easily alarmed and is hesitant to venture into new situations.

Vigilant, alert: Ready, attentive, watchful, notices with special attention. Not oblivious to surroundings.