

Profiling of tryptophan metabolic pathways in the rat fetoplacental unit during gestation

SUPPLEMENTARY INFORMATION

Table 1. List of Predesigned Probe Assays (FAM and HEX) Used in qPCR and ddPCR Analysis. All Primers Were Obtained from Thermo Fisher Scientific, Waltham, MA, USA, except the HEX Assay, Which Was Obtained from BioRad, Hercules, CA, USA.

Gene symbol	Gene name	Assay ID
<i>Tph1</i>	tryptophan hydroxylase 1	Rn01476867_m1
<i>Tph2</i>	tryptophan hydroxylase 2	Rn00598017_m1
<i>Mao-a</i>	monoamine oxidase A	Rn01430950_m1
<i>Mao-b</i>	monoamine oxidase B	Rn00566203_m1
<i>Pts</i>	6-pyruvoyltetrahydropterin synthase	Rn00568123_m1
<i>Spr</i>	sepiapterin reductase	Rn01425678_g1
<i>Ddc</i>	dopa decarboxylase	Rn01401189_m1
<i>Aanat</i>	aralkylamine N-acetyltransferase	Rn00664873_g1
<i>Asmt</i>	acetylserotonin O-methyltransferase	Rn00595341_m1
<i>Ido1</i>	indoleamine 2,3-dioxygenase 1	Rn01482210_m1
<i>Ido2</i>	indoleamine 2,3-dioxygenase 2	Rn01482543_m1
<i>Tdo2</i>	tryptophan 2,3-dioxygenase	Rn00574499_m1
<i>Kmo</i>	kynurenine 3-monooxygenase	Rn01411937_m1
<i>Kyat1</i>	kynurenine aminotransferase 1	Rn01439192_m1
<i>Kynu</i>	Kynureninase	Rn01449532_m1
<i>Haao</i>	3-hydroxyanthranilate 3,4-dioxygenase	Rn01469327_m1
<i>Qprt</i>	quinolinate phosphoribosyltransferase	Rn01506918_g1
<i>Slc3a2</i>	solute carrier family 3 member 2	Rn01759899_g1
<i>Slc6a4</i>	solute carrier family 6 member 4	Rn00564737_m1
<i>Slc7a5</i>	solute carrier family member 5	Rn00569313_m1
<i>Slc7a8</i>	solute carrier family 7 member 8	Rn00584909_m1
<i>Slc22a3</i>	solute carrier family 22 member 3	Rn00570264_m1
Reference genes		
<i>Ywhaz</i>	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta	Rn00755072_m1 qRnoCIP0050810 (HEX)
<i>Gapdh</i>	glyceraldehyde-3-phosphate dehydrogenase	Rn01775763_g1

Table 2. List of Antibodies Used for Western Blot and Immunohistochemistry Analysis.

Target protein	Product name	Host	Distributor	Cat. No.	Dil.	Use
SLC6A4	Anti-serotonin transporter antibody	Rabbit	Abcam, Cambridge, UK	Ab181034	1:500	WB
SLC6A4	Anti-serotonin transporter antibody	Rabbit	Thermo Fisher Scientific, Waltham, MA, USA	PA5-50624	1:50	IHC
SL22A3	Anti-SLC22A3/OCT3	Rabbit	Bioworld Technology, Inc., Bloomington, MN, USA	BS3359	1:500	WB
MAO-A	Anti-monoamine oxidase	Rabbit	Abcam, Cambridge, UK	Ab126751	1:500	WB
					1:50	IHC
IDO	Anti-IDO antibody	Rabbit	LS-Bio, Seattle, WA, USA	LS-B13596	1:500	WB
IDO	Anti-IDO antibody	Rabbit	Thermo Fisher Scientific, Waltham, MA, USA	PA5-79437	1:50	IHC
TPH	Anti-TPH antibody	Rabbit	Thermo Fisher Scientific, Waltham, MA, USA	PAI-777	1:100	WB
					1:50	IHC
Secondary antibody	Anti-rabbit Immunoglobulins/HRP	Swine	Dako, Carpinteria, CA, USA	P0217	1:2000	WB
Reference protein						
β -actin	Anti-beta actin antibody	Mouse	Abcam, Cambridge, UK	Ab8226	1:1000	WB
Secondary antibody	Anti-mouse Immunoglobulins/HRP	Rabbit	Dako, Carpinteria, CA, USA	P0260	1:2000	WB