

**MONOAMINE OXIDASE A EXPRESSION IS VITAL FOR EMBRYONIC BRAIN DEVELOPMENT
BY MODULATING DEVELOPMENTAL APOPTOSIS**

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Running head: MAO-A knockdown and embryogenesis

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1. Methodological details

Oligonucleotides

Table S1. Sequence of amplification primers used for quantification of different gene products, for preparation of the in situ hybridization probes and of the siRNA constructs.

Gene product	Direction	Sequence
mRNA quantification primers		
MAO-A	Forward	5'- TTC AGCGTC TTC CAA TGG GAG CT-3'
	Reverse	5'- TGC TCC TCA CAC CAG TTC TTC TC-3'
MAO-B	Forward	5'- ACT CGT GTG CCT TTG GGT TCA G-3'
	Reverse	5'- TGC TCC TCA CAC CAG TTC TTC TC-3'
GAPDH	Forward	5'- CCA TCA CCA TCT TCC AGG AGC GA-3'
	Reverse	5'- GGA TGA CCT TGC CCA CAG CCT TG-3'
primers for preparation of <i>in situ</i> hybridization probes		
MAO-A	Forward	5'- TGA CGG ATC TGG AGA AGC CCA GT-3'
	Reverse	5'- AGC CCC CAT TGG AAG ACG CTG AA-3'
MAO-B	Forward	5'- GAC CTG GAA CCT AGC AAG CAG CA-3'
	Reverse	5'- TGA ACC CAA AGG CAC ACG AGA GAT-3'
siRNA constructs for in vitro embryogenesis and gene silencing		
MAO-A (exon2/3)	Sense	5'- GAG GAA UGA GCA UGU UAA AUG GGU A-3'
	Anti-sense	5'-UAC CCA UUU AAC AUG CUC AUU CCU C-3'
MAO-A (exon 8)	Sense	5'- ACC AAU UAA UUC AGC GUC UUC CAA U-3'
	Anti-sense	5'- AUU GGA AGA CGC UGA AUU AAU UGG U-3'
MAO-B (exon 6)	Sense	5'- CAC UAU GGU UCC UGU GGU AUG UGA A-3'
	Anti-sense	5'- UUC ACA UAC CAC AGG AAC CAU AGU G-3'
MAO-B (exon 15)	Sense	5'- GAC CAC CAU CUU GUC AGC AAC AGC U-3'
	Anti-sense	5'- AGC UGU UGC UGA CAA GAU GGU GGU C-3'
Primers for cloning of R1 coding sequence into pcDNA3.1		
R1	Sense	5'-CTC GAG GAT GGA GCT GGC CAC GCG CT-3'
	Anti-sense	5'-GCG GCC GCC TAC AGC TGC TTC TGT AAG CTC T-3'