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Developmental Patterns of mST3GalV mRNA Expression in the Mouse: *In Situ* Hybridization Using DIG-labeled RNA Probes

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mST3GalV (CMP-NeuAc; lactosylceramide α 2,3-sialyltransferase) synthesized ganglioside GM3, the precursor for simple and complex a- and b series gangliosides, and the expression and regulation of mST3GalV activity is central to the production of almost all gangliosides, a class of glycosphingolipids implicated in variety of cellular processes such as transmembrane signaling, synaptic transmission, specialized membrane domain formation and cell-cell interactions. To understand the developmental expression of mST3GalV in mice, we investigated spatial and temporal expression of mST3GalV mRNA during the mouse embryo genesis [embryonic (E) days; E9, E11, E13, 15] by *in situ* hybridization with digoxigenin-labeled RNA probes. Specific signal was detected in neural tube (E9), neuronal differentiation, brain and liver development (E11, 13, 15). These data indicate that mST3GalV is differently expressed at developmental stages of embryo, and this may be importantly related with regulation of organogenesis in mice.