

770 **SUPPLEMENTARY MATERIAL**

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772 **SUPPLEMENTAL TABLES**

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774 **Table S1.** Primary and secondary antibodies used in this study.

Primary antibodies	Company	Catalog #	Type
ACE2	R&D Systems	AF3437	goat polyclonal
ACE2	ABclonal	A4612	rabbit monoclonal
Cathepsin B	R&D Systems	AF965	goat polyclonal
Cathepsin L	R&D Systems	AF1515	goat polyclonal
CHAT	Proteintech	24418-1-AP	rabbit polyclonal
GnRH1	Proteintech	26950-1-AP	rabbit polyclonal
OMP	WAKO	544-10001	goat polyclonal
TMPRSS2	Novus Biologicals	NBP3-00492	rabbit monoclonal
TMPRSS2	Abcam	ab242384	rabbit monoclonal
TMPRSS2	St John's	STJ11102428	rabbit monoclonal
Secondary antibodies			Fluorescent conjugate
donkey anti-rabbit	Abcam	ab15006	Alexa Fluor 488
donkey anti-goat	Abcam	ab150136	Alexa Fluor 594
horse anti-rabbit	Vector	DI-1094	Alexa Fluor 594
horse anti-goat	Vector	DI-3088	Alexa Fluor 488

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776 Abbreviations: ACE2, angiotensin converting enzyme 2; CHAT, choline acetyltransferase; GnRH1,
777 gonadotropin releasing hormone 1; OMP, olfactory marker protein; TMPRSS2, transmembrane
778 protease serine 2.
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780 **TABLE S2.** Numbers of animals, sections, and numbers of neurons double-labeled for
781 nervus terminalis markers (GnRH, CHAT) and ACE2.

	# of sections	# of GnRH neurons	# of GnRH and ACE2	%
GnRH and ACE2				
Mouse 1	16	25	23	92.0
Mouse 2	21	30	27	90.0
Mouse 3	15	21	19	90.5
Mouse 4	11	10	8	80.0
Mouse 5	22	33	30	90.9
Sum/mean	85	119	107	89.9
CHAT and ACE2				
Mouse 1	21	20	2	10.0
Mouse 2	15	18	2	11.1
Mouse 3	18	14	1	7.1
Sum/mean	54	52	5	9.4
t-test				p<0.0001

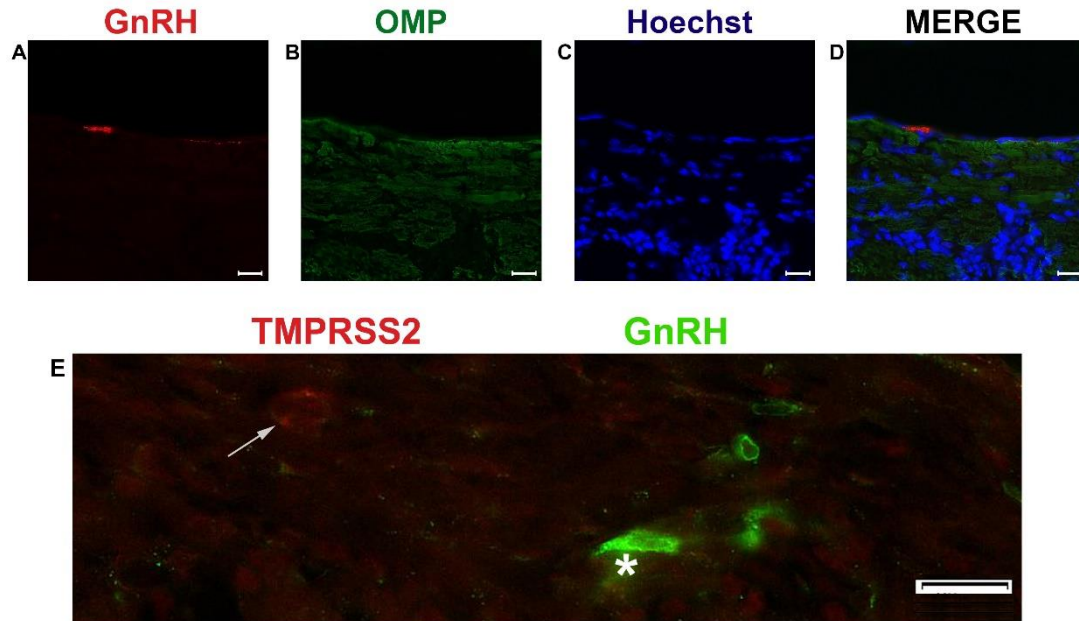
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783 **SUPPLEMENTAL FIGURES**

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789 **Fig. S1.** Examples of double immunofluorescent labeling of nervus terminalis
790 neurons with the markers GnRH and olfactory marker protein (OMP) (**A-D**), and
791 GnRH and TMPRSS2 (**E**). Label for GnRH (**A**) and OMP (**B**) in the medial region
792 adjacent to the olfactory bulbs as indicated in Fig. 1. Nuclei are stained with Hoechst
793 33258 (**C**) and the merged image is shown in (**D**). GnRH-labeled cells were never
794 labeled for OMP in this region. (**E**) GnRH-labeled nervus terminalis neurons (one
795 neuron indicated with the white asterisk) did not co-localize with cells positive for
796 TMPRSS2 (white arrow). Scale bars: 20 μ m.