

**Table S1. Binding of Egr2 and Sox10 at indicated target genes**

<b>Target Gene</b>	<b>Sox10 (GSE64703)</b>	<b>Egr2 (GSE35132)</b>
Maf	O	O
Acat2	X	X
Pmvk	O	X
Acss2	X	X
Fdft1	O	X
Idi1	O	X
Tm7sf2	O	X
Lss	X	X
Hmgcr	O	O
Aacs	O	O
Cyp51	O	X
Sqle	X	O
Fdps	X	X
Acly	O	O

**Table S2. List of primary antibodies used in this study**

<b>Experiment</b>	<b>Target</b>	<b>Company or Reference</b>
IHC	Maf (Anti-rabbit)	(Wende et al. 2012)
IHC & Western	Maf (Anti-guinea-pig)	(Wende et al. 2012)
IHC	Nf-200	Millipore; AB5539SP
IHC	Egr2 (Anti-rabbit)	Covance; BabCOPRB-236P
IHC	Egr2 (Anti-guinea-pig)	Gift from Dr. Michael Wagner (Friedrich-Alexander University)
IHC	F4/80	AbD Serotec; MCA497GA
IHC	L1	(Rathjen and Schachner. 1984)
IHC	$\beta$ -gal	Cappel, discontinued
Western	AKT	Cell Signaling #9272
Western	AKT p-S473	Cell Signaling #9271
Western	HDAC5	Cell Signaling #20458
Western	HDAC5 pS661	Cell Signaling #3424
Western	HDAC4	Cell Signaling #2072
Western	$\beta$ -Actin	Cell Signaling #4970
Western	$\beta$ -Tubulin	Cell Signaling #2146
Western	Flag	Sigma-Adrich F1804
Western	HA	Abcam ab9110
Western	Lamin B	Abcam ab16048
Western	SREBP2	Abcam ab30682
Western	SREBP1	Santa Cruz sc-13551
Western	Idi1	Proteintech 11166-2-AP
Western	Hmgcr	Abcam ab174830

Wende H, Lechner SG, Cheret C, Bourane S, Kolanczyk ME, Pattyn A, Reuter K, Munier FL, Carroll P, Lewin GR et al. 2012. The transcription factor c-Maf controls touch receptor development and function. *Science* **335**: 1373-1376.

Rathjen FG, Schachner M. 1984. Immunocytological and biochemical characterization of a new neuronal cell surface component (L1 antigen) which is involved in cell adhesion. *The EMBO journal* **3**: 1-10.

**Table S3. List of siRNA sequences used in this study**

<b>Target</b>	<b>Targeting sequence (sense strand)</b>
Mouse Maf #1	5'- CUA CAA GGA GAA AUA CGA GAA-3'
Mouse Maf #2	5'- CCU GUC UUA GAA AGA AAG AAA-3'
Rat HDAC4 #1	5'- GCC AAA GAU GAC UUC CCU CUU-3'
Rat HDAC4 #2	5'- GGU ACA AUC UCU CUG CCA AAU-3'
Rat HDAC5 #1	5'-CCG UAG CCA UCA CAG CUA AAC-3'
Rat HDAC5 #2	5'-GAC GCC UCC CUC CUA CAA AUU-3'
Control	5'- CGU ACG CGG AAU ACU UCG A-3'

**Table S4. List of RT-qPCR primers used in this study**

<b>Oligo Names</b>	<b>Sequence</b>
Mouse/Rat $\beta$ -Actin For	5'-GGC TGT ATT CCC CTC CAT CG-3'
Mouse/Rat $\beta$ -Actin Rev	5'-CCA GTT GGT AAC AAT GCC ATG T-3'
Mouse/Rat Maf For	5'-CGC CTA CAA GGA GAA ATA CGA-3'
Mouse/Rat Maf Rev	5'-CGC GTG TCA CAC TCA CAT GAA-3'
Mouse Hmgcr For	5'-AGC TTG CCC GAA TTG TAT GTG-3'
Rat Hmgcr For	5'-AGC TTG CCC GAA TTG TGT GTG-3'
Mouse/Rat Hmgcr Rev	5'-TCT GTT GTG AAC CAT GTG ACT TC-3'
Mouse Lss For	5'-TCG TGG GGG ACC CTA TAA AAC-3'
Mouse Lss Rev	5'-CGT CCT CCG CTT GAT AAT AAG TC-3'
Mouse Pmvk For	5'-AAA ATC CGG GAA GGA CTT CGT-3'
Mouse Pmvk Rev	5'-AGA GCA CAG ATG TTA CCT CCA-3'
Mouse Acss2 For	5'-AAA CAC GCT CAG GGA AAA TCA-3'
Mouse Acss2 Rev	5'-ACC GTA GAT GTA TCC CCC AGG-3'
Mouse Fdft1 For	5'-ATG GAG TTC GTC AAG TGT CTA GG-3'
Mouse Fdft1 Rev	5'-CGT GCC GTA TGT CCC CAT C-3'
Rat Fdft1 For	5'-ATG GAG TTC GTG AAG TGT CTA GG-3'
Rat Fdft1 Rev	5'-CAT GAC GTA TGT CCC CAT C-3'
Mouse Idi1 For	5'-ACC AGC CAT CTT GAT GAA AAA CA-3'
Mouse Idi1 Rev	5'-CAG CAA CTA TTG GTG AAA CAA CC-3'
Mouse Cyp51 For	5'-GAC AGG AGG CAA CTT GCT TTC-3'
Mouse Cyp51 rev	5'-GTG GAC TTT TCG CTC CAG C-3'
Mouse Sqle For	5'-ATA AGA AAT GCG GGG ATG TCA C-3'
Mouse Sqle Rev	5'-ATA TCC GAG AAG GCA GCG AAC-3'
Mouse Mbp For	5'-AAT CGG CTC ACA AGG GATTCA-3'
Mouse Mbp rev	5'-TCC TCC CAG CTT AAA GAT TTT GG-3'
Mouse Egr2 For	5'-GCC AAG GCC GTA GAC AAA ATC-3'
Mouse Egr2 Rev	5'-CCA CTC CGT TCA TCT GGT CA-3'
Mouse Sox10 For	5'-GGA GGG GCT GCT GCT ATT CA-3'
Mouse Sox10 Rev	5'-GGT GGT TGG AGG GGT TGG G-3'
Mouse Oct-6 For	5'-CCG GGA GAA TGG ACG AAG AG-3'
Mouse Oct-6 Rev	5'-GCG CGG AAA GAA TAA AGT GAC-3'
Mouse Brn2 For	5'-CAA CGG CGG TTT GCT CTA TTC-3'
Mouse Brn2 Rev	5'-GGC TCA TCG TGG GCG TCC-3'
Mouse Mpz For	5'-CCT CTC AGG TCA CGC TCT ATG TCT-3'
Mouse Mpz Rev	5'-AGC CAG CAG TAC CGA ATC AG-3'
Mouse Plp1 Fpr	5'-CCT TCC ACC TGT TTA TTG CTG CGT T-3'
Mouse Plp1 Rev	5'-GGA CGG CGA AGT TGT AAG TG-3'
Mouse Pmp22 For	5'-AGG CGG CCG GTT TTA CAT CA-3'
Mouse Pmp22 Rev	5'-TGT AGA TGG CCG CTG CAC TCA T-3'

**Table S5. List of ChIP-qPCR primers used in this study**

<b>Oligo Names</b>	<b>Sequence</b>
Rat Hmgcr Enhancer For	5'-TGC AGG CCT TTA TCA GCT CT-3'
Rat Hmgcr Enhancer Rev	5'-GAA ATG CCA GAA GCA GAA GG-3'
Rat Fdft1 Enhancer For	5'-CGG GTC AGA CAG CAT CAG TA-3'
Rat Fdft1 Enhancer Rev	5'-TTG CAA AGG TCA AAG GGA AG-3'
Rat Idi1 Enhancer For	5'-AAT GAA GCA GAG GTC GGT TG-3'
Rat Idi1 Enhancer Rev	5'-TAA GAA TGG ACT GCC ACA CG-3'
Rat Lss Enhancer For	5'-AAG ATG AGA TGC CAG GAT GG-3'
Rat Lss Enhancer Rev	5'-CCT TCT GTT GGG AGT CAG GA-3'
Rat Gapdh Enhancer For	5'-ACC ATG CTT CAC TGA CAT TCT GA-3'
Rat Gapdh Enhancer Rev	5'-GGT CTG CCT CCC TGC TAA CC-3'
Rat Maf promoter For	5'-TTC CTC TCC TGG CTT GAC AT-3'
Rat Maf promoter Rev	5'-CGA CTC TAG CCA AGC CAA TC-3'
Rat Mbp Enhancer For	5'-CCT GTG GTG AAC ATG ACC AG-3'
Rat Mbp Enhancer Rev	5'-ACA CAG GTG AAG GGA ACC TG-3'
Rat Mpz Enhancer For	5'-CTC TGC CCT TAC CTT TGC TG-3'
Rat Mpz Enhancer Rev	5'-GAG TCA GGT CCA GGA AGC AC-3'
Rat Pmp22 Enhancer For	5'-GAC CCT GCC TCA AAA TGA AA-3'
Rat Pmp22 Enhancer Rev	5'-AGG ACT GAA CCC TGG TCC TT-3'
Mouse Maf promoter For	5'-GTG CCA GTC AAT TTC CCA TT-3'
Mouse Maf promoter Rev	5'-TGA TCC CAG CGA GAA GAG TT-3'