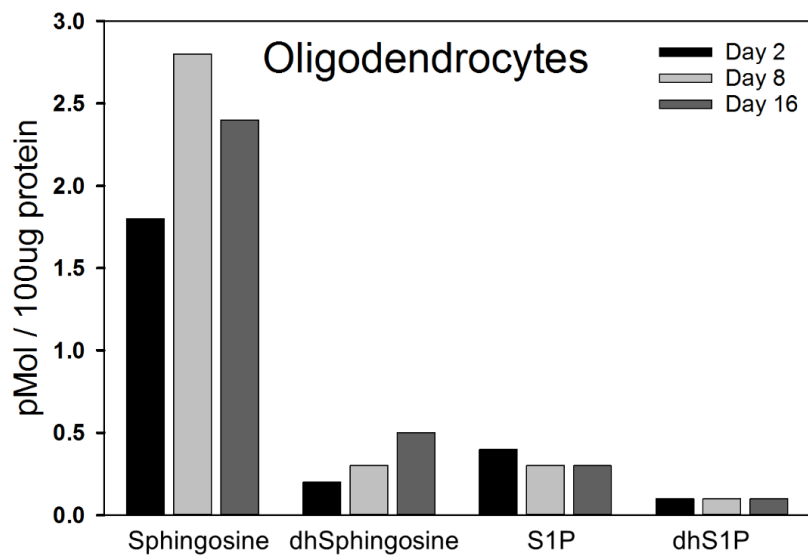


Supplementary Materials
Supplementary Table I, Supplementary Figures 1-4

Gene	ID	Primer 1	Primer 2	Probe	Amplicon Length
ORMDL1	NM_001134704.2	GGCCTGCTTCACATTGTATTT	TATTCTTGCTGGTGAGGTCG	AGTGTTCCCTGTTGCCTGGACCTT	115
ORMDL2	NM_001105940.1	CTCCTCAGCATCCCTTTCTTC	ACATACAGTCAAAGGGACGC	AGCATTCCCTGTTGTCTGGACCTG	103
ORMDL3	NM_001047897.1	ACTGGGAGCAGATGGACTAT	CTACACCAAGTATGACCAAGTC C	TGTGCTGTACTTCCCTCACCAGCTT	114
SPTLC1	NM_001108406.1	GAACCATCCTGCTCTCAACTA	TAATTTCTCGGGTTGCTGG	ACCCATAACATCGTGGTGAACGGA	113
SPTLC2	NM_001037097.1	TGGTGCCTTTGATGCTCTAC	TGTAGTTGTGGTGGGATTTCC	CGCCTTTGGGAGAGAGATGCTGAA	94
SPTLC3	NM_001106517.1	CTAATGGGACTCTACGCAATCC	AATAGGAAGGCAGAGGAGGA	TGGAATCTCGAAAAGCCCAGCA	112
ssSPTa	NM_001047743.1	GAAGCAGATGTCCTGGTTCTAC	CAATTCGATGCTGGTTTCTGTG	TTGCTGGTCACTGCGCTCTACAT	103
UGT8	NM_019276.3	GCAGAGGGCTCAGAAGTTATC	ACTACATTCTTCGCCACGAC	TTCATAAGGATCAACCCGGCCACC	97
GAL3ST1	NM_001109447.1	CATCAGTGGTTTCCTGAGATGA	CCTATTGCTGCTGTACTCCTATG	TACTGCCGAAGAAGCCCTGCAA	115
MBP	NM_001025291.1	CCTGTCCCTCAGCAGATTTAG	CTATAAATCGGCTCACAAGGGA	CAGAAGCCAGGATTTGGCTACGGA	97
MOG	NM_022668.2	GCCGTGGAGTTGAAAGTAGAA	TTGTATTCTCTTCTGCAGC	TCTCATTGCCCTTGTGCCTATGCT	124
PLP1	NM_030990.2	GTTCCAGAGCCAACATCAA	CTATGCCCTGACTGTTGTATGG	TCATTCTTTGGAGCGGGTGTGCA	116

Supplementary Table I. Real-time probes used



Supplementary Figure 1. Levels of long chain bases do not substantially change during oligodendrocyte differentiation. Oligodendrocytes were isolated from rat pups at day 2, 8, and 16 after birth as described in Methods, lipids were extracted and analyzed by mass spectroscopy. Shown are oligodendrocytes pooled from 20 rat pups per day.

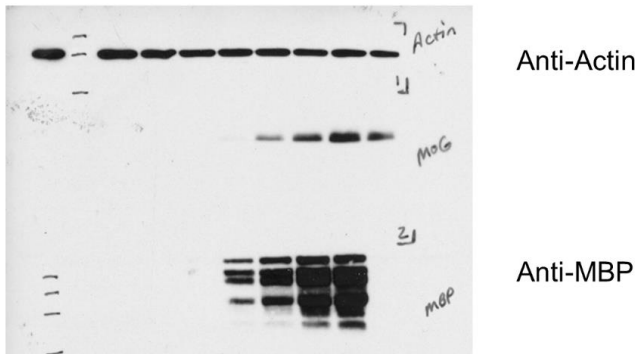


Figure 1. Actin and MBP

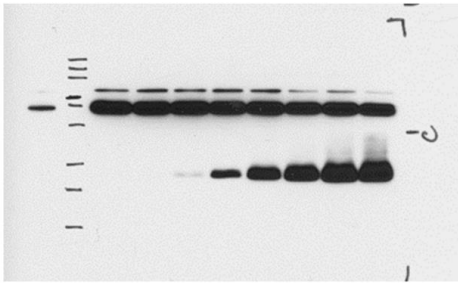


Figure 1. Actin and MOG

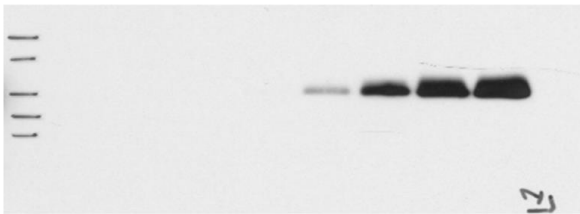


Figure 1. PLP

Supplementary Figure 2. Raw Western images for proteins depicted in Figure 1.

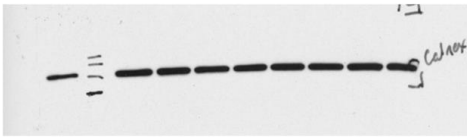


Figure 5. Calnexin

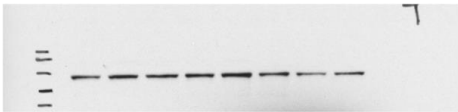
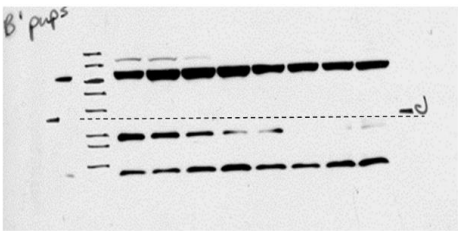


Figure 5. SPTLC1



Anti-SPTLC3
 ← Blot cut and separated
 Anti-ORMDL

Figure 5. SPTLC3 and ORMDL

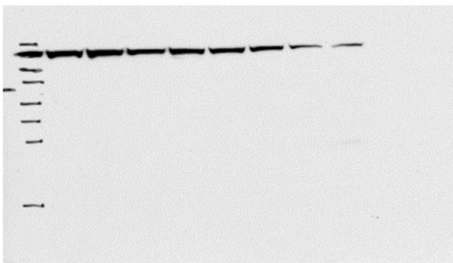


Figure 5. SPTLC2

Supplementary Figure 3. Raw Western images for proteins depicted in Figure 5.

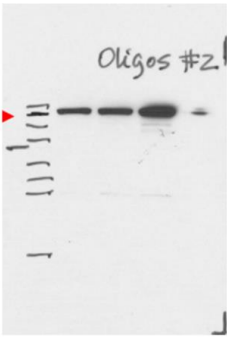


Figure 8. SPTLC1

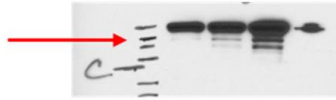


Figure 8. SPTLC2

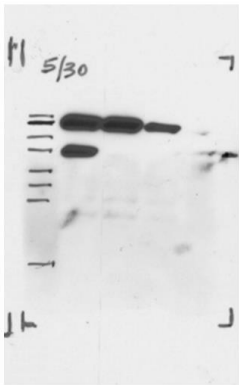


Figure 8. SPTLC3

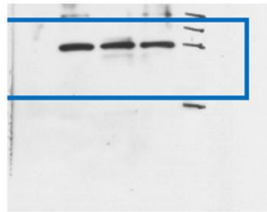
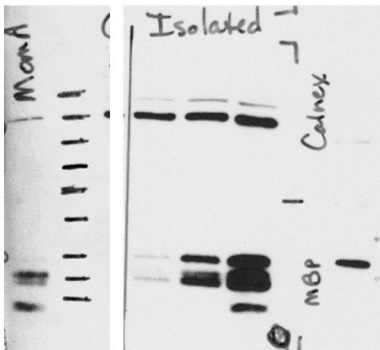


Figure 8. ORMDL



← Blot cut and separated

Figure 8. Calnexin and MBP

Supplementary Figure 4. Raw Western images for proteins depicted in Figure 8.