

Supplementary Tables S1-S2.

Table S1. Primers and vectors (relevant restriction sites are underlined)

PCR primers		
target	name primer(s)	sequence
<i>Slc25a17</i> (<i>intron 1</i>)	<i>MmPMP34-in1-s-a</i>	5'-AGCTTGGTAACCAGTGTGG
	<i>MmPMP34-in1-s-b</i>	5'-CTGGCACCTAGCACCTCTTC
	<i>MmPMP34-in1-s-c</i>	5'-TATCCAATGCCCTTTCTGG
	<i>MmPMP34-in1-s-d</i>	5'-TCCTTCCTGGAACCCTTCTT
	<i>MmPMP34-in1-s-e</i>	5'-CCCCTCCTACAGAGAGACACC
	<i>MmPMP34-in1-s-f</i>	5'-CAAGCTTCCCAGAACAGAGG
	<i>MmPMP34-in1-s-g</i>	5'-GCACAAACACCATGACCAAG
	<i>MmPMP34-in1-s-h</i>	5'-CTTGGCTTCCAGCTGTAGG
	<i>MmPMP34-in1-s-i</i>	5'-CCAGAGGCTGCTACATTTC
	<i>MmPMP34-in1-s-j</i>	5'-CTTAGCCTCTGGGCTCTCC
	<i>MmPMP34-in1-s-k</i>	5'-AGGCAGGTTGGGAATTAGC
	<i>MmPMP34-in1-r-e</i>	5'-CTCTTCCGAAGGTCTGAGC
β geo	Gal-s	5'-CGAATACCTGTTCCGTATAGC
	Gal-r	5'-AGTGGCAACATGGAAATCG
	GAL-3s	5'-CGAATACCTGTTCCGTATAGCG
	GAL-3r	5'-ACCACTACCATAATCCGGTAGG
PARP1	HsPARP1-1s-EP	5'- <u>AAGAATTCACTGCAGCTCTGGAGGAC</u> ACAAG
	HsPARP1-2r-XB	5'-AACTCGAGATCTAAAGTTGGACTTCCACAGGGAGGTCTAAAAATTG
real time PCR primers		
target	name primer(s)	sequence
<i>Slc25a17</i>	PMP34-1	fw 5'-GGCCTCTGTGCTGCTACGAAAG; rev 5'- GACTCCGCTCTGGTGGTAA
<i>Slc25a17</i>	PMP34-2	fw 5'-TGGCACCATGGCCTCTGT; rev 5'-AGTGTGACTGCCATGACAGTGT

		probe TCCTACGAAAGTCTGGTACACGCCGTGGCCGGAGCCGTG
<i>Cat</i>	Catalase	fw 5'-CGCAGAGACCTGATGTCCTGA; rev 5'- CCCCGCGGTACATGAATATTAA probe 5'-CACCGGAGGCAGGAACCCAATA
<i>Acox1</i>	ACOX1	fw 5'-CACGCACATCTTGGATGGTAGT; rev 5'- TTCGTCAGAACATCAAGTTCTCGATT probe 5'-ACACCCGGCGCCGTCGAG
<i>Ehhadh</i>	MFP1	fw 5'-GCTGGAGCCCAGTGACTACCT; rev 5'-CCAAGCTTGCCATTCTTCA probe 5'-TGGTTGCCAGGAAAGCCCTC
<i>Cyp4A10</i>	CytP450A10	fw 5'-GCCAAATCCAGAGGTGTTGA; rev 5'- AGCAAATTGTTCCAATGCA probe 5'-AGACTCTCCCCGACACAGCCACTCATTC
<i>Cpt1β</i>	CPT1β	fw 5'-CTGAGACACATCACCGTCTGGAA; rev 5'- CACCCCTAAGGATGCCATTCT probe 5'- CAACTCCTGGAAGAACGCCATTCTGAATC
<i>Actb</i>	actin beta	fw 5'-AGAGGGAAATCGTGCCTGAC; rev 5'-CAATAGTGATGACCTGGCCGT probe 5'-CACTGCCGCATCCTCTTCCTCCCC

vectors

	name	insert	generation, reference or source
pCR®-XL-TOPO	--		Invitrogen
pCMVβ	β-galactosidase		Clontech
pCMV-Tag2B			Stratagene
pTW45	full length mouse PMP34 cDNA		Wylin T, Baes M, Brees C, Mannaerts GP, Fransen M, Van Veldhoven PP (1998) Eur J Biochem 258, 332-338; primer amplified open reading frame inserted into EcoRI/NotI restricted pBluescript; Wylin T and Van Veldhoven PP, unpublished data.
pRSVL	luciferase		de Wet JR, Wood KV, DeLuca M, Helinski DR, Subramani S. (1987) Mol Cell Biol. 7, 725-737.
pGL3-CMV-luciferase	luciferase		derived from pGL3 (Promega), expression controlled by CMV promotor; Ir. N. Hersmus (Laboratory for Neurobiology, K.U.Leuven)
pRSV-SV40T	SV40 large T antigen		S. Subramani (University of California, San Diego, USA)
pGT1.8IRESβGeo(S)	βgeo		W. Skarnes (Wellcome Trust Sanger Institute, Cambridge, UK)
pMF1706	roGFP-SKL		Ivashchenko O, Van Veldhoven PP, Brees C, Ho YS, Terlecky SR, Fransen M (2011) Mol Biol Cell 22, 1440–1451.

pPVV311

HsPARP₅₁₁₋₁₀₁₄-SKL

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Table S2. Plasmalogen content of tissues of wild type and PMP34 knock out mice.

Plasmalogens were analyzed in lipid extracts of tissues obtained from age matched male adult mice fed a standard (-) or phytol (+) enriched diet, and related to the total amount of phospholipids as described in the Method section. Values are mean \pm SD when measurements were performed on tissues derived from two mice, otherwise represent determinations on a single mouse.

		plasmalogens (nmol/ μ mol phospholipid)			
genotype	phytol	wild type		PMP34 knock out	
		-	+	-	+
liver		8.97 \pm 0.5	9.18 \pm 0.4	8.93 \pm 0.5	8.30 \pm 2.7
cerebrum		229	256 \pm 22.0	247	241 \pm 12.0
heart		158	123	162	91.6 \pm 7.8