

## **Supplemental information**

### **A pseudoautosomal glycosylation disorder prompts the revision of dolichol biosynthesis**

**Matthew P. Wilson, Takfarinas Kentache, Charlotte R. Althoff, Céline Schulz, Geoffroy de Bettignies, Gisèle Mateu Cabrera, Loreta Cimbalistiene, Birute Burnyte, Grace Yoon, Gregory Costain, Sandrine Vuillaumier-Barrot, David Cheillan, Daisy Rymen, Lucie Rychtarova, Hana Hansikova, Marina Bury, Joseph P. Dewulf, Francesco Caligiore, Jaak Jaeken, Vincent Cantagrel, Emile Van Schaftingen, Gert Matthijs, François Foulquier, and Guido T. Bommer**

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### A pseudoautosomal glycosylation disorder prompts the revision of dolichol biosynthesis

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**This file contains:**

**Supplemental Table S1**

**Table S1: *m/z* values used for LCMS analysis of polyisoprenoid species, related to Figures 2-6, Figures S2-6, and Table S2.**

		Number of isoprene units						
		15	16	17	18	19	20	21
[M + NH <sub>4</sub> <sup>+</sup> ]	Polyprenal	1054.9678	1123.0304	1191.093	1259.1556	1327.2182	1395.2808	1463.3434
	Polyprenol / Dolichal	1056.9834	1125.046	1193.1086	1261.1712	1329.2338	1397.2964	1465.359
	Dolichol	1058.999	1127.0616	1195.1224	1263.1868	1331.2494	1399.312	1467.3746
	Dolichol M + 2	1061.0057	1129.0683	1197.1291	1265.1935	1333.2561	1401.3187	1469.3813
	Dimethylated Dolichol -Phosphate	1166.9966	1235.0592	1303.1218	1371.1844	1439.2470	1507.3096	1575.3722
	Dimethylated Polyprenol -Phosphate	1164.9810	1233.0436	1301.1062	1369.1688	1437.2314	1505.2940	1573.3566
[M - H <sup>+</sup> ]	Polyprenoic acid	1051.9215	1119.9841	1188.0467	1256.1093	1324.1719	1392.2345	1460.2971
	Dolichol -P-hexose	1281.9771	1350.0397	1418.1023	1486.1648	1554.2274	1622.2901	1690.3527
	Polyprenol -P-hexose	1279.9614	1348.0241	1416.0866	1484.1492	1552.2118	1620.2744	1688.3371

Theoretical *m/z* values of [M + NH<sub>4</sub><sup>+</sup>] ions of polyprenal, dolichal, polyprenol, dolichol, dolichol M+2, dimethylated polyprenol-phosphate, and dimethylated dolichol phosphate from species with 15 to 21 isoprene units. The theoretical *m/z* values of polyprenoic acid, polyprenol-P-hexose and dolichol-P-hexose correspond to the [M - H<sup>+</sup>] ions.