

Feature #	m/z	RT	FC	log2(FC)	P-value	FDR Adjusted	Short ID
1596	805.6804	17.33943	6.6148	2.7257	0.001835	1	PE(P-40:0)
3236	805.6803	17.41749	7.158	2.8396	0.002111	1	PE(P-40:0)
3251	1468.133	34.93075	2.4255	1.2783	0.002424	1	
2072	366.2752	24.57469	2.5501	1.3505	0.0031	1	
1874	721.508	23.56639	0.32177	-1.6359	0.00328	1	PG(32:1)
2813	805.6803	17.3425	8.2376	3.0422	0.004201	1	PE(P-40:0)
2702	1468.013	32.05603	2.8979	1.535	0.006018	1	
3779	261.8834	15.52717	4.2261	2.0793	0.007772	1	
2329	380.3334	31.75663	15.063	3.9129	0.009662	1	
794	754.5924	29.17341	2.2535	1.1722	0.010182	1	PG(O-34:0)
3750	760.5883	23.15106	2.2198	1.1504	0.012076	1	PC(34:1)
1938	890.5429	26.91772	0.044447	-4.4918	0.012169	1	
3003	1572.124	14.94142	21.054	4.396	0.012651	1	
764	1520.164	33.20648	2.1164	1.0816	0.012915	1	
3649	757.5592	21.91843	2.527	1.3374	0.013462	1	
3678	757.5592	21.92988	2.527	1.3374	0.013462	1	
1436	1068.855	15.50998	3.0112	1.5903	0.013591	1	
3588	1467.008	32.0779	3.9677	1.9883	0.014728	1	CL(72:8)
1459	1176.806	15.58658	3.2719	1.7101	0.01488	1	
1339	1573.127	14.93007	13.572	3.7625	0.015828	1	
3984	754.5369	24.80512	2.482	1.3115	0.017101	1	PE-Nme(36:4)
2245	1541.022	28.39342	4.4296	2.1472	0.017972	1	CL(78:13)
570	954.6145	33.69582	2.3656	1.2422	0.018175	1	
3716	1552.214	15.43915	11.596	3.5356	0.01838	1	
3209	1552.214	15.45704	11.131	3.4766	0.018591	1	
2364	845.683	34.93253	4.068	2.0243	0.018792	1	PE(42:2)
2978	261.5502	27.07187	2.0975	1.0687	0.020343	1	
4120	261.5502	27.1761	2.0975	1.0687	0.020343	1	
2049	261.5502	27.26315	2.0975	1.0687	0.020343	1	
2171	1175.794	32.51479	2.4129	1.2708	0.021869	1	
1670	957.6335	15.43628	14.058	3.8133	0.023282	1	
3383	787.6016	13.69755	0.32294	-1.6306	0.02344	1	PE(38:3)
3504	926.5838	24.70426	3.588	1.8432	0.024252	1	PI(40:7)
3567	800.5576	15.54927	2.1358	1.0948	0.025085	1	
2944	1069.859	15.5041	4.9474	2.3067	0.025425	1	
1283	1408.921	14.73127	34.71	5.1173	0.025952	1	
2224	721.5079	23.47945	0.4033	-1.3101	0.026486	1	PG(32:1)
2012	1467.008	33.30824	2.7447	1.4566	0.027521	1	CL(72:8)
3345	707.5424	24.59149	2.0914	1.0644	0.029419	1	PE(32:1)
1667	755.5405	24.70032	2.1603	1.1112	0.029579	1	PE(36:5)
3673	1177.809	15.523	4.2656	2.0927	0.030377	1	
1607	1524.194	15.59228	4.4293	2.1471	0.030901	1	
2889	868.6545	28.887	2.0113	1.0081	0.030961	1	
2194	754.5369	24.64252	2.0658	1.0467	0.031782	1	PC(34:4)
1595	1168.905	15.0744	20.288	4.3426	0.031924	1	
2426	244.2031	25.36605	2.0872	1.0616	0.033169	1	
3303	721.5079	23.59777	0.36282	-1.4627	0.034232	1	PC(32:1)
4314	815.6361	14.64364	151.23	7.2406	0.034396	1	PE(40:3)

2050	261.5502	26.86422	2.1659	1.115	0.035917	1	
3265	394.3594	14.9575	161.05	7.3314	0.036537	1	
3697	381.8011	15.71498	2.1554	1.108	0.037577	1	
2798	1005.633	28.62599	2.5077	1.3263	0.037656	1	
4480	1222.909	24.40043	0.3295	-1.6016	0.03798	1	
3037	1551.211	15.31432	32.688	5.0307	0.038769	1	
2825	393.2985	31.11233	0.006621	-7.2388	0.039512	1	
3702	791.6286	14.72898	2478	11.275	0.040491	1	PE(38:1)
2082	379.2829	24.94067	3.6557	1.8701	0.042749	1	MG(20:4)
4374	1524.195	15.44396	61.601	5.9449	0.043143	1	
812	982.6454	15.28588	2.152	1.1056	0.043331	1	
2829	366.2752	24.58939	2.1575	1.1094	0.044552	1	
1162	1576.214	15.89356	0.34666	-1.5284	0.04554	1	
3018	1577.217	15.06711	11.541	3.5287	0.045589	1	CL(79:2)
3953	202.6638	26.77265	0.005455	-7.5183	0.046649	1	
1363	1551.212	15.43339	5.0114	2.3252	0.047624	1	
3801	1004.63	27.05943	0.007853	-6.9926	0.047642	1	
3224	1468.013	32.39941	2.9967	1.5834	0.049627	1	

### Supplementary material 2 (DOCX 24 kb)

The 66 significant ( $p < 0.05$ ) features identified in the hippocampus. A majority were found to be elevated in Kv1.1-/- mice compared to WT mice. \*Provided annotation represent simple m/z based fit and can be affected by in source fragmentation. Therefore, it is important to note that all identifications are tentative, and their validation would require additional characterization involving purified standards and extensive MS<sup>n</sup> analysis