|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| sperm  SP | PC 24:0 | PC 26:0 | PC 28:1 | PC 30:0 | PC 30:2 | PC 32:0 | PC 32:1 | PC 32:2 | PC 32:3 | PC 34:1 | PC 34:2 | PC 34:3 | PC 34:4 | PC 36:0 | PC 36:1 | PC 36:2 | PC 36:3 | PC 36:4 | PC 36:5 | PC 36:6 |
| |  | | --- | | LPC 14:0 | | 0.242 | 0.171 | 0.140 | 0.423 | 0.094 | 0.347 | 0.361 | 0.257 | 0.157 | 0.403 | 0.423 | 0.272 | 0.275 | **0.534** | 0.372 | 0.385 | 0.356 | 0.272 | 0.223 | 0.300 |
| LPC 16:0 | 0.088 | -0.078 | -0.086 | 0.319 | 0.097 | 0.389 | 0.350 | 0.302 | 0.214 | 0.251 | 0.310 | 0.023 | 0.185 | 0.444 | 0.192 | 0.256 | 0.245 | 0.113 | 0.276 | 0.349 |
| LPC 16:1 | 0.033 | -0.057 | 0.003 | 0.146 | 0.003 | 0.262 | 0.163 | 0.117 | 0.073 | 0.095 | 0.086 | -0.030 | 0.070 | 0.263 | 0.053 | 0.078 | 0.042 | -0.105 | 0.150 | 0.187 |
| LPC 17:0 | 0.094 | -0.015 | 0.011 | 0.274 | 0.032 | 0.305 | 0.272 | 0.243 | 0.189 | 0.205 | 0.242 | 0.048 | 0.175 | 0.376 | 0.184 | 0.218 | 0.177 | 0.104 | 0.244 | 0.263 |
| LPC 18:0 | 0.117 | -0.080 | -0.108 | 0.317 | 0.148 | 0.385 | 0.327 | 0.313 | 0.236 | 0.248 | 0.325 | 0.050 | 0.215 | 0.448 | 0.182 | 0.269 | 0.251 | 0.143 | 0.296 | 0.352 |
| LPC 18:1 | 0.011 | -0.113 | -0.096 | 0.227 | 0.062 | 0.293 | 0.261 | 0.196 | 0.108 | 0.158 | 0.215 | -0.033 | 0.112 | 0.341 | 0.107 | 0.179 | 0.147 | 0.039 | 0.162 | 0.266 |
| LPC 18:2 | 0.307 | 0.144 | 0.167 | 0.265 | 0.225 | 0.412 | 0.335 | 0.378 | 0.367 | 0.283 | 0.320 | 0.212 | 0.328 | 0.301 | 0.279 | 0.319 | 0.223 | 0.162 | 0.390 | 0.317 |
| LPC 20:3 | 0.170 | -0.015 | -0.068 | 0.131 | 0.195 | 0.218 | 0.241 | 0.290 | 0.244 | 0.220 | 0.436 | 0.185 | 0.306 | 0.229 | 0.190 | 0.385 | 0.179 | 0.356 | 0.284 | 0.229 |
| LPC 20:4 | 0.302 | 0.244 | 0.350 | 0.114 | 0.153 | 0.080 | 0.056 | 0.181 | 0.131 | -0.012 | 0.008 | 0.165 | 0.182 | 0.044 | 0.009 | 0.059 | -0.038 | -0.125 | 0.229 | 0.008 |
| PC 24:0 | 0.048 | 0.120 | 0.245 | 0.271 | 0.200 | 0.096 | 0.080 | 0.097 | -0.029 | 0.008 | 0.023 | 0.083 | 0.120 | 0.254 | 0.062 | 0.060 | 0.123 | -0.033 | 0.043 | 0.181 |
| PC 26:0 | -0.188 | -0.017 | 0.086 | 0.095 | -0.153 | 0.098 | 0.099 | -0.083 | -0.105 | 0.137 | 0.020 | -0.026 | -0.005 | 0.155 | 0.229 | 0.036 | 0.072 | -0.018 | -0.096 | 0.046 |
| PC 28:1 | 0.134 | -0.020 | -0.074 | 0.386 | 0.234 | 0.400 | 0.342 | 0.269 | 0.184 | 0.281 | 0.265 | 0.017 | 0.196 | **0.453** | 0.178 | 0.239 | 0.256 | 0.020 | 0.271 | 0.306 |
| PC 30:0 | -0.028 | -0.198 | -0.203 | 0.141 | 0.248 | 0.197 | 0.123 | 0.127 | 0.083 | 0.039 | 0.132 | -0.126 | 0.036 | 0.229 | -0.050 | 0.083 | 0.054 | 0.012 | 0.099 | 0.193 |
| PC 32:0 | 0.013 | -0.186 | -0.192 | 0.137 | 0.218 | 0.211 | 0.169 | 0.190 | 0.176 | 0.098 | 0.284 | -0.042 | 0.114 | 0.247 | 0.012 | 0.198 | 0.113 | 0.230 | 0.175 | 0.250 |
| PC 32:1 | 0.360 | 0.248 | 0.227 | 0.361 | 0.331 | 0.350 | 0.378 | **0.489** | 0.440 | 0.341 | **0.487** | 0.409 | **0.503** | 0.402 | 0.373 | **0.522** | 0.392 | **0.469** | **0.464** | **0.458** |
| PC 32:2 | 0.087 | -0.038 | -0.022 | -0.068 | 0.160 | -0.056 | -0.123 | 0.017 | 0.008 | -0.181 | -0.126 | -0.070 | 0.019 | -0.130 | -0.198 | -0.067 | -0.177 | -0.255 | 0.100 | -0.119 |
| PC 32:3 | -0.168 | -0.247 | -0.205 | -0.090 | -0.157 | 0.069 | 0.111 | 0.001 | -0.066 | 0.014 | 0.041 | -0.208 | -0.111 | 0.032 | -0.022 | -0.005 | -0.110 | -0.129 | -0.020 | -0.008 |
| PC 34:1 | 0.041 | -0.173 | -0.209 | 0.250 | 0.169 | 0.392 | 0.324 | 0.275 | 0.221 | 0.211 | 0.269 | -0.036 | 0.153 | 0.377 | 0.100 | 0.209 | 0.221 | 0.105 | 0.237 | 0.376 |
| PC 34:2 | 0.093 | -0.119 | -0.212 | 0.200 | 0.271 | 0.305 | 0.273 | 0.237 | 0.178 | 0.214 | 0.299 | 0.014 | 0.164 | 0.310 | 0.114 | 0.262 | 0.171 | 0.125 | 0.214 | 0.271 |
| PC 34:3 | 0.199 | -0.017 | -0.032 | 0.250 | 0.173 | 0.320 | 0.225 | 0.282 | 0.250 | 0.183 | 0.275 | 0.099 | 0.267 | 0.331 | 0.124 | 0.262 | 0.167 | 0.129 | 0.304 | 0.275 |
| PC 34:4 | -0.134 | -0.198 | -0.089 | -0.146 | -0.123 | -0.087 | -0.146 | -0.120 | -0.136 | -0.197 | -0.200 | -0.257 | -0.181 | -0.096 | -0.201 | -0.186 | -0.277 | -0.271 | -0.124 | -0.140 |
| PC 36:0 | -0.369 | -0.448 | -0.447 | -0.274 | -0.049 | -0.183 | -0.193 | -0.188 | -0.230 | -0.227 | -0.032 | -0.320 | -0.288 | -0.075 | -0.278 | -0.096 | -0.209 | -0.015 | -0.275 | -0.056 |
| PC 36:1 | -0.081 | -0.272 | -0.287 | 0.128 | 0.154 | 0.256 | 0.169 | 0.109 | 0.050 | 0.063 | 0.105 | -0.179 | -0.008 | 0.248 | -0.059 | 0.042 | 0.069 | -0.051 | 0.062 | 0.238 |
| PC 36:2 | 0.111 | -0.095 | -0.158 | 0.248 | 0.285 | 0.341 | 0.296 | 0.271 | 0.209 | 0.230 | 0.329 | 0.041 | 0.187 | 0.364 | 0.150 | 0.278 | 0.206 | 0.147 | 0.253 | 0.303 |
| PC 36:3 | 0.026 | -0.208 | -0.286 | 0.107 | 0.259 | 0.245 | 0.223 | 0.241 | 0.233 | 0.132 | 0.283 | -0.047 | 0.135 | 0.211 | 0.013 | 0.224 | 0.135 | 0.215 | 0.208 | 0.284 |
| PC 36:4 | 0.187 | -0.017 | -0.053 | 0.156 | 0.319 | 0.239 | 0.205 | 0.260 | 0.234 | 0.164 | 0.292 | 0.116 | 0.252 | 0.214 | 0.123 | 0.274 | 0.120 | 0.173 | 0.275 | 0.205 |
| PC 36:5 | -0.134 | -0.229 | -0.150 | 0.054 | 0.034 | 0.083 | 0.065 | 0.023 | -0.081 | -0.051 | 0.032 | -0.162 | -0.024 | 0.132 | -0.074 | -0.006 | -0.044 | -0.131 | -0.008 | 0.054 |
| PC 36:6 | -0.044 | -0.223 | -0.254 | 0.143 | 0.156 | 0.263 | 0.205 | 0.100 | 0.038 | 0.122 | 0.186 | -0.147 | 0.014 | 0.248 | 0.011 | 0.138 | 0.075 | -0.003 | 0.077 | 0.226 |
| PC 38:0 | -0.189 | -0.364 | -0.392 | 0.021 | 0.088 | 0.128 | 0.071 | 0.029 | -0.035 | 0.000 | 0.081 | -0.262 | -0.074 | 0.168 | -0.108 | 0.002 | -0.026 | -0.060 | -0.002 | 0.111 |
| PC 38:3 | -0.040 | -0.241 | -0.302 | 0.114 | 0.172 | 0.176 | 0.153 | 0.135 | 0.078 | 0.069 | 0.214 | -0.120 | 0.029 | 0.232 | -0.050 | 0.137 | 0.078 | 0.099 | 0.093 | 0.191 |
| PC 38:4 | 0.159 | -0.075 | -0.168 | 0.212 | 0.398 | 0.296 | 0.254 | 0.304 | 0.248 | 0.212 | 0.356 | 0.095 | 0.242 | 0.322 | 0.150 | 0.311 | 0.192 | 0.188 | 0.300 | 0.265 |
| PC 38:5 | 0.090 | -0.077 | -0.093 | 0.209 | 0.227 | 0.340 | 0.269 | 0.247 | 0.204 | 0.226 | 0.271 | 0.023 | 0.200 | 0.304 | 0.200 | 0.259 | 0.152 | 0.050 | 0.275 | 0.241 |
| PC 38:6 | -0.191 | -0.435 | **-0.493** | -0.087 | 0.118 | 0.170 | 0.086 | 0.030 | 0.009 | -0.005 | 0.108 | -0.290 | -0.140 | 0.092 | -0.153 | 0.017 | -0.038 | -0.027 | -0.018 | 0.181 |
| PC 40:1 | -0.258 | -0.122 | 0.087 | -0.003 | 0.043 | -0.156 | -0.214 | -0.189 | -0.217 | -0.214 | -0.271 | -0.185 | -0.120 | -0.035 | -0.096 | -0.263 | -0.143 | -0.173 | -0.231 | -0.117 |
| PC 40:2 | 0.259 | 0.155 | 0.164 | 0.305 | 0.252 | 0.382 | 0.276 | 0.297 | 0.191 | 0.281 | 0.346 | 0.242 | 0.299 | 0.408 | 0.323 | 0.335 | 0.262 | 0.131 | 0.335 | 0.363 |
| PC 40:3 | -0.001 | -0.218 | -0.286 | 0.027 | 0.311 | 0.162 | 0.103 | 0.175 | 0.146 | 0.027 | 0.144 | -0.092 | 0.058 | 0.134 | -0.047 | 0.132 | 0.023 | 0.011 | 0.138 | 0.157 |
| PC 40:4 | 0.008 | -0.214 | -0.308 | 0.056 | 0.301 | 0.162 | 0.149 | 0.156 | 0.140 | 0.102 | 0.245 | -0.051 | 0.102 | 0.164 | -0.020 | 0.197 | 0.068 | 0.144 | 0.143 | 0.164 |
| PC 40:5 | 0.154 | -0.027 | -0.023 | 0.202 | 0.320 | 0.260 | 0.153 | 0.205 | 0.182 | 0.155 | 0.298 | 0.074 | 0.201 | 0.295 | 0.135 | 0.253 | 0.110 | 0.173 | 0.243 | 0.222 |
| PC 40:6 | -0.175 | -0.355 | -0.373 | -0.032 | 0.040 | 0.059 | 0.004 | -0.011 | -0.071 | -0.083 | 0.050 | -0.268 | -0.148 | 0.111 | -0.180 | -0.021 | -0.081 | -0.080 | -0.067 | 0.059 |
| PC 42:0 | -0.082 | -0.114 | 0.063 | -0.071 | 0.078 | -0.138 | -0.262 | -0.107 | -0.088 | -0.247 | -0.102 | -0.128 | -0.050 | -0.051 | -0.164 | -0.128 | -0.215 | 0.009 | -0.069 | -0.055 |
| PC 42:1 | -0.162 | -0.374 | **-0.475** | -0.027 | 0.030 | 0.221 | 0.137 | 0.036 | 0.017 | 0.084 | 0.114 | -0.186 | -0.032 | 0.098 | -0.003 | 0.075 | 0.068 | -0.005 | -0.031 | 0.196 |
| PC 42:2 | -0.007 | -0.084 | 0.008 | -0.011 | 0.249 | -0.011 | -0.090 | 0.027 | 0.040 | -0.168 | -0.011 | -0.063 | 0.034 | -0.014 | -0.185 | -0.023 | -0.105 | -0.020 | 0.049 | 0.022 |
| PC 42:4 | -0.269 | **-0.526** | **-0.650** | -0.263 | 0.207 | -0.023 | -0.078 | -0.068 | -0.041 | -0.125 | 0.033 | -0.328 | -0.168 | -0.119 | -0.261 | -0.033 | -0.159 | -0.048 | -0.095 | -0.025 |
| PC 42:5 | -0.323 | **-0.556** | **-0.617** | -0.131 | 0.020 | 0.084 | 0.042 | -0.074 | -0.119 | -0.021 | 0.131 | -0.343 | -0.162 | 0.071 | -0.159 | 0.038 | -0.069 | -0.033 | -0.105 | 0.078 |
| PC 42:6 | -0.030 | 0.009 | 0.134 | 0.140 | 0.139 | 0.218 | 0.138 | 0.077 | 0.114 | 0.110 | 0.014 | -0.030 | 0.105 | 0.132 | 0.165 | 0.056 | 0.056 | -0.053 | 0.151 | 0.164 |
| GPCe 30:0 | -0.283 | -0.263 | -0.220 | 0.042 | -0.130 | 0.116 | 0.108 | -0.123 | -0.198 | 0.084 | 0.036 | -0.245 | -0.122 | 0.149 | 0.079 | 0.006 | -0.027 | -0.165 | -0.119 | 0.005 |
| GPCe 30:1 | -0.025 | 0.015 | 0.012 | 0.058 | 0.136 | 0.127 | 0.068 | -0.088 | -0.154 | 0.074 | -0.036 | -0.056 | -0.058 | 0.088 | 0.049 | 0.027 | -0.017 | -0.244 | -0.056 | 0.060 |
| GPCe 30:2 | 0.076 | -0.009 | 0.042 | 0.194 | 0.191 | 0.179 | 0.115 | 0.116 | 0.145 | 0.050 | 0.060 | 0.002 | 0.126 | 0.165 | -0.007 | 0.102 | 0.086 | 0.075 | 0.077 | 0.202 |
| GPCe 32:1 | 0.103 | -0.140 | -0.253 | 0.144 | 0.139 | 0.244 | 0.251 | 0.268 | 0.240 | 0.192 | 0.362 | 0.036 | 0.174 | 0.269 | 0.082 | 0.298 | 0.174 | 0.277 | 0.241 | 0.264 |
| GPCe 32:2 | -0.038 | -0.256 | -0.329 | 0.060 | 0.263 | 0.126 | 0.077 | 0.087 | 0.065 | 0.048 | 0.186 | -0.116 | 0.067 | 0.152 | -0.046 | 0.143 | 0.017 | 0.072 | 0.100 | 0.105 |
| GPCe 34:0 | 0.196 | -0.020 | -0.050 | 0.305 | 0.122 | 0.392 | 0.363 | 0.377 | 0.353 | 0.292 | 0.414 | 0.138 | 0.276 | 0.417 | 0.232 | 0.346 | 0.292 | 0.293 | 0.370 | 0.366 |
| GPCe 34:1 | 0.074 | -0.098 | -0.161 | 0.250 | 0.107 | 0.277 | 0.283 | 0.256 | 0.158 | 0.194 | 0.256 | 0.000 | 0.136 | 0.359 | 0.120 | 0.214 | 0.186 | 0.078 | 0.211 | 0.244 |
| GPCe 34:2 | 0.153 | -0.068 | -0.174 | 0.298 | 0.152 | 0.386 | 0.387 | 0.363 | 0.307 | 0.325 | 0.435 | 0.104 | 0.266 | 0.438 | 0.222 | 0.379 | 0.304 | 0.298 | 0.332 | 0.385 |
| GPCe 34:3 | 0.036 | -0.179 | -0.280 | 0.069 | 0.175 | 0.152 | 0.136 | 0.138 | 0.143 | 0.165 | 0.301 | 0.008 | 0.176 | 0.177 | 0.084 | 0.233 | 0.081 | 0.239 | 0.188 | 0.121 |
| GPCe 36:0 | -0.162 | -0.272 | -0.268 | 0.123 | -0.017 | 0.292 | 0.238 | 0.052 | -0.035 | 0.149 | 0.102 | -0.209 | -0.036 | 0.262 | 0.065 | 0.053 | 0.075 | -0.104 | 0.015 | 0.235 |
| GPCe 36:1 | -0.026 | -0.198 | -0.177 | 0.162 | 0.027 | 0.302 | 0.210 | 0.136 | 0.084 | 0.131 | 0.153 | -0.104 | 0.080 | 0.275 | 0.059 | 0.113 | 0.092 | -0.029 | 0.130 | 0.238 |
| GPCe 36:2 | 0.083 | -0.131 | -0.217 | 0.202 | 0.090 | 0.343 | 0.289 | 0.230 | 0.188 | 0.242 | 0.304 | 0.011 | 0.190 | 0.325 | 0.133 | 0.281 | 0.185 | 0.141 | 0.219 | 0.307 |
| GPCe 36:3 | 0.236 | -0.026 | -0.107 | 0.277 | 0.278 | 0.402 | 0.350 | 0.384 | 0.356 | 0.302 | **0.451** | 0.164 | 0.331 | 0.391 | 0.225 | 0.398 | 0.275 | 0.313 | 0.397 | 0.383 |
| GPCe 36:4 | 0.285 | 0.032 | -0.018 | 0.289 | 0.129 | 0.397 | 0.344 | 0.409 | 0.363 | 0.322 | **0.495** | 0.242 | 0.373 | 0.442 | 0.272 | 0.433 | 0.289 | 0.341 | 0.438 | 0.369 |
| GPCe 36:5 | 0.277 | 0.027 | -0.116 | 0.233 | 0.340 | 0.376 | 0.352 | 0.400 | 0.378 | 0.334 | 0.395 | 0.186 | 0.342 | 0.317 | 0.267 | 0.389 | 0.256 | 0.221 | 0.430 | 0.309 |
| GPCe 38:0 | -0.050 | -0.176 | -0.159 | 0.147 | 0.180 | 0.223 | 0.164 | 0.141 | 0.070 | 0.071 | 0.114 | -0.108 | 0.055 | 0.242 | 0.029 | 0.087 | 0.066 | -0.044 | 0.102 | 0.190 |
| GPCe 38:1 | -0.127 | -0.115 | 0.019 | -0.063 | -0.207 | -0.165 | -0.190 | -0.105 | -0.173 | -0.229 | -0.186 | -0.171 | -0.078 | -0.082 | -0.160 | -0.158 | -0.198 | -0.237 | -0.058 | -0.157 |
| GPCe 38:2 | **0.460** | 0.284 | 0.236 | **0.493** | 0.297 | **0.541** | **0.469** | **0.497** | **0.503** | **0.480** | **0.469** | 0.394 | **0.553** | **0.469** | **0.481** | **0.499** | 0.441 | 0.308 | **0.556** | 0.413 |
| GPCe 38:3 | 0.139 | -0.044 | -0.098 | 0.198 | 0.188 | 0.161 | 0.128 | 0.177 | 0.125 | 0.096 | 0.171 | 0.039 | 0.199 | 0.221 | 0.033 | 0.179 | 0.086 | 0.044 | 0.189 | 0.108 |
| GPCe 38:4 | 0.076 | -0.194 | -0.259 | 0.150 | 0.193 | 0.346 | 0.259 | 0.266 | 0.253 | 0.206 | 0.368 | 0.018 | 0.221 | 0.302 | 0.103 | 0.317 | 0.174 | 0.227 | 0.276 | 0.338 |
| GPCe 38:5 | 0.125 | -0.129 | -0.211 | 0.171 | 0.184 | 0.350 | 0.281 | 0.321 | 0.319 | 0.233 | 0.334 | 0.062 | 0.238 | 0.325 | 0.133 | 0.298 | 0.195 | 0.203 | 0.319 | 0.320 |
| GPCe 38:6 | -0.138 | -0.347 | -0.423 | 0.005 | 0.006 | 0.087 | 0.090 | 0.058 | -0.004 | 0.026 | 0.200 | -0.180 | -0.070 | 0.185 | -0.107 | 0.089 | 0.024 | 0.098 | 0.002 | 0.111 |
| GPCe 40:1 | 0.042 | 0.060 | 0.203 | 0.081 | -0.230 | 0.000 | -0.102 | -0.063 | -0.089 | -0.111 | -0.075 | -0.006 | 0.007 | 0.000 | -0.046 | -0.084 | -0.035 | -0.125 | -0.032 | -0.057 |
| GPCe 40:2 | -0.025 | -0.177 | -0.123 | 0.176 | -0.043 | 0.296 | 0.187 | 0.102 | 0.053 | 0.089 | 0.126 | -0.132 | 0.028 | 0.274 | 0.010 | 0.084 | 0.069 | -0.042 | 0.079 | 0.243 |
| GPCe 40:3 | 0.043 | -0.176 | -0.197 | 0.059 | 0.151 | 0.122 | 0.028 | 0.092 | 0.092 | -0.006 | 0.095 | -0.057 | 0.096 | 0.093 | -0.049 | 0.087 | -0.005 | -0.008 | 0.105 | 0.062 |
| GPCe 40:4 | -0.077 | -0.122 | -0.053 | 0.057 | -0.036 | 0.038 | 0.002 | 0.003 | -0.058 | 0.003 | 0.134 | -0.054 | 0.032 | 0.171 | 0.050 | 0.114 | -0.039 | 0.017 | 0.032 | 0.008 |
| GPCe 40:5 | 0.004 | -0.224 | -0.311 | 0.068 | 0.133 | 0.241 | 0.171 | 0.161 | 0.122 | 0.107 | 0.150 | -0.086 | 0.077 | 0.189 | 0.019 | 0.152 | 0.060 | -0.036 | 0.127 | 0.175 |
| GPCe 40:6 | -0.046 | -0.223 | -0.256 | 0.072 | -0.006 | 0.117 | 0.126 | 0.118 | 0.033 | 0.006 | 0.158 | -0.122 | -0.050 | 0.209 | -0.098 | 0.087 | 0.042 | 0.038 | 0.037 | 0.147 |
| GPCe 42:0 | -0.311 | -0.229 | -0.146 | -0.087 | -0.116 | -0.120 | -0.217 | -0.333 | -0.279 | -0.113 | -0.195 | -0.247 | -0.172 | -0.051 | -0.078 | -0.174 | -0.185 | -0.182 | -0.256 | -0.180 |
| GPCe 42:1 | -0.053 | -0.080 | -0.050 | 0.144 | 0.212 | 0.158 | 0.099 | 0.112 | 0.098 | 0.113 | 0.074 | -0.045 | 0.120 | 0.174 | 0.161 | 0.068 | 0.072 | -0.035 | 0.129 | 0.047 |
| GPCe 42:2 | 0.053 | -0.092 | -0.030 | 0.269 | -0.090 | 0.245 | 0.180 | 0.178 | 0.122 | 0.150 | 0.292 | 0.045 | 0.229 | 0.365 | 0.124 | 0.230 | 0.185 | 0.271 | 0.187 | 0.307 |
| GPCe 42:3 | 0.211 | 0.074 | 0.032 | 0.383 | 0.104 | **0.472** | 0.442 | 0.343 | 0.268 | 0.433 | **0.459** | 0.211 | 0.339 | **0.519** | 0.395 | **0.462** | 0.352 | 0.251 | 0.334 | 0.417 |
| GPCe 42:4 | 0.171 | 0.039 | 0.041 | 0.214 | 0.074 | 0.220 | 0.237 | 0.233 | 0.185 | 0.115 | 0.094 | 0.067 | 0.208 | 0.173 | 0.018 | 0.148 | 0.135 | -0.012 | 0.191 | 0.194 |
| GPCe 42:5 | -0.099 | -0.218 | -0.329 | 0.223 | 0.102 | 0.382 | 0.214 | 0.102 | 0.149 | 0.277 | 0.226 | -0.063 | 0.129 | 0.331 | 0.272 | 0.229 | 0.256 | 0.095 | 0.129 | 0.278 |
| GPCe 44:3 | -0.007 | -0.159 | -0.123 | 0.241 | 0.075 | 0.332 | 0.242 | 0.208 | 0.133 | 0.162 | 0.229 | -0.065 | 0.134 | 0.365 | 0.123 | 0.171 | 0.159 | 0.057 | 0.208 | 0.311 |
| GPCe 44:4 | -0.238 | -0.209 | -0.165 | -0.119 | -0.211 | -0.120 | -0.109 | -0.123 | -0.127 | -0.060 | 0.033 | -0.107 | -0.044 | -0.035 | 0.019 | 0.030 | -0.054 | 0.179 | -0.135 | 0.032 |
| GPCe 44:5 | -0.145 | -0.104 | -0.027 | -0.206 | -0.301 | -0.084 | -0.141 | -0.156 | -0.193 | -0.122 | -0.144 | -0.152 | -0.177 | -0.107 | -0.031 | -0.093 | -0.238 | -0.319 | -0.094 | -0.181 |
| GPCe 44:6 | -0.082 | -0.099 | -0.120 | -0.018 | 0.224 | -0.021 | -0.033 | 0.008 | 0.035 | -0.005 | -0.023 | -0.048 | 0.067 | -0.011 | 0.033 | 0.008 | -0.051 | -0.054 | 0.040 | -0.099 |
| SM (OH) 14:1 | 0.030 | -0.165 | -0.161 | 0.167 | 0.047 | 0.296 | 0.232 | 0.198 | 0.121 | 0.099 | 0.125 | -0.092 | 0.045 | 0.283 | 0.002 | 0.081 | 0.093 | -0.084 | 0.158 | 0.238 |
| SM (OH) 16:1 | -0.020 | -0.191 | -0.205 | 0.183 | 0.022 | 0.286 | 0.244 | 0.149 | 0.038 | 0.114 | 0.126 | -0.132 | -0.007 | 0.311 | 0.002 | 0.074 | 0.101 | -0.104 | 0.092 | 0.238 |
| SM (OH) 22:1 | 0.120 | -0.045 | -0.063 | 0.310 | 0.053 | 0.386 | 0.353 | 0.249 | 0.164 | 0.254 | 0.235 | 0.017 | 0.167 | 0.391 | 0.157 | 0.206 | 0.212 | 0.017 | 0.222 | 0.301 |
| SM (OH) 22:2 | -0.001 | -0.198 | -0.217 | 0.179 | 0.119 | 0.328 | 0.268 | 0.190 | 0.111 | 0.143 | 0.168 | -0.105 | 0.042 | 0.314 | 0.019 | 0.114 | 0.126 | -0.036 | 0.138 | 0.293 |
| SM (OH) 24:1 | 0.052 | -0.123 | -0.153 | 0.260 | 0.082 | 0.371 | 0.344 | 0.235 | 0.145 | 0.230 | 0.236 | -0.038 | 0.121 | 0.376 | 0.119 | 0.198 | 0.192 | 0.017 | 0.193 | 0.315 |
| SM 16:0 | -0.039 | -0.186 | -0.159 | 0.208 | 0.094 | 0.272 | 0.210 | 0.141 | 0.051 | 0.078 | 0.120 | -0.141 | 0.001 | 0.311 | -0.023 | 0.060 | 0.107 | -0.039 | 0.075 | 0.272 |
| SM 16:1 | -0.056 | -0.218 | -0.221 | 0.122 | 0.096 | 0.226 | 0.210 | 0.125 | 0.025 | 0.071 | 0.128 | -0.147 | -0.041 | 0.244 | -0.041 | 0.056 | 0.071 | -0.045 | 0.045 | 0.221 |
| SM 18:0 | -0.097 | -0.266 | -0.271 | 0.156 | 0.107 | 0.272 | 0.192 | 0.103 | 0.034 | 0.078 | 0.087 | -0.203 | -0.029 | 0.277 | -0.049 | 0.027 | 0.075 | -0.095 | 0.053 | 0.235 |
| SM 18:1 | -0.050 | -0.239 | -0.290 | 0.096 | 0.136 | 0.209 | 0.188 | 0.123 | 0.041 | 0.086 | 0.164 | -0.144 | -0.036 | 0.232 | -0.041 | 0.081 | 0.075 | 0.011 | 0.056 | 0.214 |
| SM 20:2 | -0.123 | -0.289 | -0.337 | 0.062 | 0.275 | 0.268 | 0.242 | 0.129 | 0.083 | 0.132 | 0.214 | -0.153 | 0.032 | 0.183 | 0.017 | 0.143 | 0.098 | 0.056 | 0.114 | 0.276 |
| SM 22:3 | 0.111 | -0.040 | -0.147 | 0.042 | 0.386 | 0.174 | 0.101 | 0.122 | 0.286 | 0.172 | 0.201 | 0.111 | 0.157 | 0.044 | 0.094 | 0.156 | 0.164 | 0.324 | 0.159 | 0.179 |
| SM 24:0 | 0.053 | -0.144 | -0.171 | 0.269 | 0.228 | 0.374 | 0.294 | 0.248 | 0.190 | 0.194 | 0.245 | -0.041 | 0.164 | 0.368 | 0.080 | 0.198 | 0.197 | 0.077 | 0.220 | 0.347 |
| SM 24:1 | -0.022 | -0.195 | -0.194 | 0.176 | 0.153 | 0.280 | 0.214 | 0.133 | 0.069 | 0.095 | 0.134 | -0.131 | 0.032 | 0.269 | -0.038 | 0.083 | 0.090 | -0.038 | 0.092 | 0.251 |
| SM 26:0 | 0.204 | 0.005 | -0.027 | 0.235 | 0.413 | 0.271 | 0.256 | 0.351 | 0.307 | 0.140 | 0.238 | 0.093 | 0.260 | 0.248 | 0.071 | 0.220 | 0.168 | 0.111 | 0.332 | 0.244 |
| SM 26:1 | 0.056 | -0.177 | -0.259 | 0.062 | 0.282 | 0.209 | 0.190 | 0.226 | 0.211 | 0.078 | 0.206 | -0.054 | 0.091 | 0.141 | -0.050 | 0.171 | 0.081 | 0.108 | 0.178 | 0.227 |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | PC 38:0 | PC 38:1 | PC 38:3 | PC 38:4 | PC 38:5 | PC 38:6 | PC 40:1 | PC 40:2 | PC 40:3 | PC 40:4 | PC 40:5 | PC 40:6 | PC 42:0 | PC 42:1 | PC 42:2 | PC 42:4 | PC 42:5 | PC 42:6 |
| |  | | --- | | LPC 14:0 | | 0.374 | 0.391 | 0.223 | 0.274 | 0.326 | 0.206 | 0.093 | 0.254 | 0.252 | 0.358 | 0.184 | 0.417 | 0.160 | 0.256 | 0.279 | 0.389 | 0.310 | 0.162 |
| LPC 16:0 | 0.364 | 0.235 | 0.293 | 0.150 | 0.301 | 0.326 | -0.121 | -0.040 | 0.331 | 0.275 | 0.248 | 0.335 | -0.163 | -0.011 | 0.056 | 0.299 | 0.304 | -0.128 |
| LPC 16:1 | 0.155 | 0.005 | 0.129 | -0.090 | 0.123 | 0.150 | -0.082 | -0.051 | 0.226 | 0.122 | 0.058 | 0.183 | -0.071 | -0.081 | 0.034 | 0.158 | 0.161 | -0.032 |
| LPC 17:0 | 0.269 | 0.180 | 0.195 | 0.117 | 0.229 | 0.212 | -0.065 | 0.029 | 0.256 | 0.195 | 0.184 | 0.278 | -0.053 | 0.017 | 0.079 | 0.208 | 0.208 | -0.038 |
| LPC 18:0 | 0.370 | 0.236 | 0.314 | 0.161 | 0.305 | 0.335 | -0.123 | -0.008 | 0.363 | 0.301 | 0.265 | 0.343 | -0.164 | 0.007 | 0.080 | 0.316 | 0.307 | -0.128 |
| LPC 18:1 | 0.266 | 0.122 | 0.205 | 0.065 | 0.212 | 0.218 | -0.162 | -0.084 | 0.258 | 0.194 | 0.144 | 0.223 | -0.177 | -0.095 | 0.003 | 0.215 | 0.205 | -0.158 |
| LPC 18:2 | 0.284 | 0.219 | 0.286 | 0.206 | 0.361 | 0.296 | 0.135 | 0.066 | 0.379 | 0.278 | 0.284 | 0.260 | 0.144 | 0.183 | 0.324 | 0.286 | 0.328 | 0.134 |
| LPC 20:3 | 0.266 | 0.241 | 0.296 | 0.329 | 0.343 | 0.198 | -0.093 | 0.024 | 0.342 | 0.271 | 0.314 | 0.099 | -0.006 | 0.013 | 0.206 | 0.230 | 0.198 | -0.110 |
| LPC 20:4 | -0.113 | -0.168 | -0.101 | -0.128 | 0.062 | -0.038 | 0.263 | -0.036 | 0.094 | -0.053 | -0.105 | 0.036 | 0.246 | 0.141 | 0.231 | -0.093 | -0.014 | 0.296 |
| PC 24:0 | 0.125 | 0.026 | 0.023 | -0.039 | 0.089 | 0.060 | 0.014 | -0.023 | 0.126 | 0.093 | -0.057 | 0.189 | 0.065 | -0.007 | 0.039 | 0.030 | 0.084 | 0.120 |
| PC 26:0 | 0.134 | 0.184 | 0.033 | 0.002 | 0.006 | -0.065 | -0.162 | 0.099 | 0.011 | 0.047 | -0.064 | 0.128 | 0.110 | -0.102 | -0.004 | 0.098 | 0.087 | -0.035 |
| PC 28:1 | 0.313 | 0.167 | 0.215 | 0.113 | 0.329 | 0.304 | -0.095 | -0.126 | 0.260 | 0.247 | 0.220 | 0.361 | -0.172 | 0.028 | 0.084 | 0.296 | 0.262 | -0.105 |
| PC 30:0 | 0.167 | 0.019 | 0.152 | 0.039 | 0.150 | 0.212 | -0.208 | -0.222 | 0.163 | 0.114 | 0.167 | 0.131 | -0.322 | -0.140 | -0.084 | 0.146 | 0.120 | -0.221 |
| PC 32:0 | 0.223 | 0.143 | 0.266 | 0.214 | 0.212 | 0.280 | -0.188 | -0.123 | 0.229 | 0.188 | 0.293 | 0.147 | -0.248 | -0.099 | -0.030 | 0.206 | 0.188 | -0.191 |
| PC 32:1 | 0.382 | 0.335 | 0.438 | 0.448 | **0.471** | 0.386 | 0.110 | 0.141 | **0.556** | 0.450 | 0.429 | 0.394 | 0.264 | 0.232 | 0.387 | 0.320 | 0.370 | 0.183 |
| PC 32:2 | -0.256 | -0.359 | -0.208 | -0.256 | -0.075 | -0.041 | -0.060 | -0.288 | 0.024 | -0.133 | -0.199 | -0.099 | -0.079 | -0.095 | -0.003 | -0.239 | -0.138 | -0.052 |
| PC 32:3 | 0.006 | -0.068 | -0.014 | -0.111 | -0.012 | -0.015 | -0.270 | -0.279 | 0.023 | -0.060 | -0.061 | -0.059 | -0.239 | -0.255 | -0.160 | -0.021 | -0.018 | -0.286 |
| PC 34:1 | 0.364 | 0.166 | 0.361 | 0.128 | 0.284 | 0.386 | -0.196 | -0.106 | 0.388 | 0.314 | 0.275 | 0.292 | -0.268 | -0.075 | 0.002 | 0.353 | 0.337 | -0.215 |
| PC 34:2 | 0.263 | 0.120 | 0.239 | 0.149 | 0.277 | 0.271 | -0.174 | -0.123 | 0.304 | 0.263 | 0.214 | 0.206 | -0.223 | -0.036 | 0.063 | 0.263 | 0.212 | -0.209 |
| PC 34:3 | 0.238 | 0.103 | 0.242 | 0.135 | 0.286 | 0.269 | -0.056 | -0.039 | 0.347 | 0.245 | 0.236 | 0.256 | -0.059 | 0.034 | 0.169 | 0.235 | 0.218 | -0.045 |
| PC 34:4 | -0.205 | -0.297 | -0.224 | -0.260 | -0.161 | -0.131 | -0.166 | -0.361 | -0.151 | -0.236 | -0.160 | -0.143 | -0.220 | -0.216 | -0.187 | -0.221 | -0.220 | -0.149 |
| PC 36:0 | -0.026 | -0.087 | -0.003 | -0.033 | -0.098 | 0.008 | -0.448 | -0.381 | -0.069 | -0.060 | 0.086 | -0.185 | **-0.512** | -0.385 | -0.359 | -0.077 | -0.120 | -0.432 |
| PC 36:1 | 0.221 | 0.008 | 0.206 | -0.030 | 0.134 | 0.260 | -0.272 | -0.239 | 0.218 | 0.167 | 0.126 | 0.150 | -0.391 | -0.190 | -0.139 | 0.224 | 0.186 | -0.296 |
| PC 36:2 | 0.302 | 0.184 | 0.269 | 0.165 | 0.287 | 0.298 | -0.140 | -0.053 | 0.327 | 0.283 | 0.229 | 0.260 | -0.183 | -0.007 | 0.089 | 0.289 | 0.265 | -0.158 |
| PC 36:3 | 0.247 | 0.102 | 0.323 | 0.224 | 0.265 | 0.334 | -0.227 | -0.201 | 0.318 | 0.242 | 0.345 | 0.141 | -0.305 | -0.108 | -0.023 | 0.247 | 0.215 | -0.269 |
| PC 36:4 | 0.164 | 0.076 | 0.186 | 0.146 | 0.239 | 0.188 | -0.076 | -0.043 | 0.309 | 0.211 | 0.157 | 0.137 | -0.038 | 0.021 | 0.171 | 0.168 | 0.162 | -0.075 |
| PC 36:5 | 0.050 | -0.084 | -0.008 | -0.156 | -0.011 | 0.015 | -0.292 | -0.208 | 0.102 | 0.006 | -0.136 | 0.015 | -0.248 | -0.260 | -0.139 | 0.000 | 0.029 | -0.260 |
| PC 36:6 | 0.182 | 0.018 | 0.140 | 0.044 | 0.188 | 0.251 | -0.261 | -0.293 | 0.170 | 0.164 | 0.119 | 0.131 | -0.336 | -0.165 | -0.089 | 0.183 | 0.152 | -0.286 |
| PC 38:0 | 0.153 | -0.008 | 0.126 | -0.033 | 0.086 | 0.149 | -0.397 | -0.340 | 0.099 | 0.051 | 0.128 | 0.039 | **-0.489** | -0.300 | -0.238 | 0.105 | 0.047 | -0.433 |
| PC 38:3 | 0.200 | 0.068 | 0.183 | 0.116 | 0.179 | 0.221 | -0.242 | -0.202 | 0.166 | 0.147 | 0.213 | 0.101 | -0.376 | -0.146 | -0.106 | 0.174 | 0.119 | -0.295 |
| PC 38:4 | 0.277 | 0.184 | 0.265 | 0.186 | 0.295 | 0.268 | -0.139 | -0.032 | 0.356 | 0.281 | 0.242 | 0.226 | -0.160 | 0.014 | 0.139 | 0.250 | 0.233 | -0.162 |
| PC 38:5 | 0.226 | 0.138 | 0.203 | 0.098 | 0.265 | 0.251 | -0.178 | -0.138 | 0.310 | 0.215 | 0.171 | 0.251 | -0.102 | -0.048 | 0.118 | 0.202 | 0.232 | -0.153 |
| PC 38:6 | 0.144 | -0.031 | 0.217 | 0.003 | 0.090 | 0.301 | -0.393 | -0.420 | 0.169 | 0.131 | 0.196 | 0.026 | **-0.543** | -0.294 | -0.245 | 0.173 | 0.146 | -0.448 |
| PC 40:1 | -0.072 | -0.086 | -0.186 | -0.227 | -0.224 | -0.209 | -0.215 | -0.099 | -0.179 | -0.192 | -0.246 | -0.077 | -0.088 | -0.212 | -0.218 | -0.182 | -0.149 | -0.081 |
| PC 40:2 | 0.337 | 0.279 | 0.265 | 0.149 | 0.349 | 0.319 | 0.057 | 0.063 | 0.379 | 0.337 | 0.184 | 0.325 | 0.127 | 0.125 | 0.262 | 0.245 | 0.314 | 0.096 |
| PC 40:3 | 0.116 | -0.026 | 0.167 | 0.042 | 0.153 | 0.218 | -0.242 | -0.274 | 0.254 | 0.140 | 0.190 | 0.102 | -0.317 | -0.133 | -0.023 | 0.113 | 0.114 | -0.265 |
| PC 40:4 | 0.140 | 0.025 | 0.211 | 0.138 | 0.185 | 0.208 | -0.261 | -0.210 | 0.245 | 0.179 | 0.214 | 0.098 | -0.284 | -0.130 | -0.014 | 0.185 | 0.123 | -0.275 |
| PC 40:5 | 0.211 | 0.163 | 0.161 | 0.170 | 0.259 | 0.214 | -0.072 | -0.037 | 0.217 | 0.189 | 0.219 | 0.161 | -0.086 | 0.022 | 0.131 | 0.167 | 0.158 | -0.054 |
| PC 40:6 | 0.062 | -0.064 | 0.039 | -0.053 | 0.017 | 0.117 | -0.312 | -0.318 | 0.025 | 0.003 | 0.078 | -0.003 | **-0.475** | -0.255 | -0.229 | 0.036 | 0.000 | -0.359 |
| PC 42:0 | -0.117 | -0.123 | -0.137 | -0.069 | -0.113 | -0.081 | -0.110 | -0.164 | -0.140 | -0.183 | -0.032 | -0.150 | -0.114 | -0.169 | -0.149 | -0.241 | -0.208 | -0.045 |
| PC 42:1 | 0.205 | 0.023 | 0.223 | -0.002 | 0.090 | 0.263 | -0.409 | -0.220 | 0.269 | 0.244 | 0.055 | 0.066 | -0.397 | -0.229 | -0.125 | 0.236 | 0.208 | **-0.462** |
| PC 42:2 | -0.063 | -0.138 | 0.020 | -0.045 | 0.000 | 0.018 | -0.059 | -0.109 | 0.064 | -0.059 | 0.045 | -0.065 | -0.101 | -0.146 | -0.023 | -0.062 | -0.030 | -0.029 |
| PC 42:4 | -0.038 | -0.165 | 0.099 | -0.057 | -0.045 | 0.128 | **-0.527** | -0.437 | 0.108 | 0.027 | 0.075 | -0.134 | **-0.579** | -0.383 | -0.268 | 0.032 | -0.009 | **-0.580** |
| PC 42:5 | 0.077 | -0.065 | 0.125 | -0.045 | 0.015 | 0.203 | **-0.627** | **-0.478** | 0.144 | 0.116 | 0.034 | -0.012 | **-0.586** | -0.434 | -0.310 | 0.117 | 0.093 | **-0.614** |
| PC 42:6 | 0.071 | 0.020 | 0.077 | -0.033 | 0.081 | 0.147 | -0.135 | -0.129 | 0.163 | 0.071 | 0.010 | 0.177 | 0.077 | -0.086 | 0.022 | 0.048 | 0.152 | 0.003 |
| GPCe 30:0 | 0.065 | 0.025 | -0.056 | -0.114 | -0.009 | -0.024 | -0.403 | -0.244 | -0.041 | -0.018 | -0.146 | 0.050 | -0.241 | -0.308 | -0.188 | 0.027 | 0.012 | -0.352 |
| GPCe 30:1 | -0.014 | -0.130 | -0.118 | -0.177 | 0.061 | 0.047 | -0.114 | -0.247 | 0.030 | 0.070 | -0.169 | 0.038 | -0.049 | -0.079 | -0.006 | 0.018 | 0.032 | -0.045 |
| GPCe 30:2 | 0.081 | -0.064 | 0.101 | 0.083 | 0.134 | 0.176 | -0.035 | -0.108 | 0.172 | 0.137 | 0.119 | 0.155 | -0.044 | 0.013 | 0.065 | 0.146 | 0.120 | 0.030 |
| GPCe 32:1 | 0.265 | 0.172 | 0.301 | 0.280 | 0.290 | 0.299 | -0.144 | -0.081 | 0.298 | 0.259 | 0.349 | 0.176 | -0.226 | -0.012 | 0.051 | 0.254 | 0.197 | -0.208 |
| GPCe 32:2 | 0.086 | -0.025 | 0.099 | 0.063 | 0.126 | 0.153 | -0.329 | -0.257 | 0.160 | 0.110 | 0.110 | 0.063 | -0.333 | -0.184 | -0.073 | 0.089 | 0.044 | -0.338 |
| GPCe 34:0 | 0.364 | 0.311 | 0.377 | 0.292 | 0.331 | 0.376 | -0.017 | 0.105 | 0.394 | 0.332 | 0.351 | 0.361 | -0.038 | 0.110 | 0.174 | 0.350 | 0.362 | -0.023 |
| GPCe 34:1 | 0.277 | 0.150 | 0.195 | 0.108 | 0.235 | 0.223 | -0.135 | -0.069 | 0.251 | 0.208 | 0.178 | 0.250 | -0.217 | -0.014 | 0.020 | 0.218 | 0.186 | -0.176 |
| GPCe 34:2 | 0.412 | 0.294 | 0.397 | 0.326 | 0.402 | 0.383 | -0.120 | -0.014 | 0.406 | 0.368 | 0.415 | 0.334 | -0.166 | 0.048 | 0.121 | 0.379 | 0.322 | -0.158 |
| GPCe 34:3 | 0.164 | 0.113 | 0.188 | 0.186 | 0.188 | 0.138 | -0.272 | -0.074 | 0.210 | 0.170 | 0.189 | 0.071 | -0.193 | -0.100 | 0.019 | 0.162 | 0.077 | -0.287 |
| GPCe 36:0 | 0.245 | 0.044 | 0.170 | -0.060 | 0.137 | 0.215 | -0.351 | -0.282 | 0.185 | 0.159 | 0.041 | 0.146 | -0.345 | -0.252 | -0.169 | 0.214 | 0.177 | -0.358 |
| GPCe 36:1 | 0.217 | 0.043 | 0.194 | -0.014 | 0.161 | 0.238 | -0.241 | -0.175 | 0.256 | 0.179 | 0.090 | 0.191 | -0.229 | -0.154 | -0.037 | 0.212 | 0.202 | -0.232 |
| GPCe 36:2 | 0.289 | 0.117 | 0.292 | 0.177 | 0.314 | 0.313 | -0.196 | -0.147 | 0.347 | 0.293 | 0.273 | 0.235 | -0.199 | -0.059 | 0.074 | 0.301 | 0.232 | -0.223 |
| GPCe 36:3 | 0.365 | 0.259 | 0.388 | 0.304 | 0.394 | 0.389 | -0.073 | 0.028 | **0.454** | 0.377 | 0.369 | 0.299 | -0.078 | 0.078 | 0.205 | 0.352 | 0.335 | -0.095 |
| GPCe 36:4 | 0.385 | 0.326 | 0.403 | 0.314 | 0.402 | 0.362 | -0.005 | 0.137 | **0.476** | 0.385 | 0.384 | 0.343 | 0.035 | 0.130 | 0.275 | 0.361 | 0.352 | 0.002 |
| GPCe 36:5 | 0.286 | 0.192 | 0.325 | 0.242 | 0.370 | 0.335 | -0.057 | -0.031 | 0.446 | 0.338 | 0.307 | 0.304 | -0.028 | 0.120 | 0.249 | 0.290 | 0.281 | -0.092 |
| GPCe 38:0 | 0.192 | 0.041 | 0.146 | -0.012 | 0.141 | 0.165 | -0.228 | -0.180 | 0.202 | 0.119 | 0.098 | 0.149 | -0.258 | -0.157 | -0.056 | 0.140 | 0.135 | -0.227 |
| GPCe 38:1 | -0.217 | -0.253 | -0.253 | -0.251 | -0.162 | -0.140 | -0.190 | -0.321 | -0.135 | -0.242 | -0.237 | -0.096 | -0.105 | -0.236 | -0.187 | -0.338 | -0.234 | -0.131 |
| GPCe 38:2 | 0.382 | 0.351 | 0.368 | 0.340 | **0.477** | 0.386 | 0.175 | 0.249 | **0.519** | 0.445 | 0.304 | **0.493** | 0.327 | 0.345 | **0.504** | 0.415 | **0.453** | 0.215 |
| GPCe 38:3 | 0.090 | -0.035 | 0.051 | 0.039 | 0.165 | 0.089 | -0.117 | -0.096 | 0.191 | 0.116 | 0.051 | 0.138 | -0.117 | -0.015 | 0.091 | 0.086 | 0.038 | -0.126 |
| GPCe 38:4 | 0.305 | 0.154 | 0.374 | 0.229 | 0.334 | 0.389 | -0.256 | -0.156 | 0.433 | 0.337 | 0.353 | 0.218 | -0.228 | -0.101 | 0.078 | 0.319 | 0.298 | -0.254 |
| GPCe 38:5 | 0.322 | 0.180 | 0.386 | 0.214 | 0.325 | 0.358 | -0.167 | -0.059 | 0.445 | 0.328 | 0.385 | 0.275 | -0.172 | -0.009 | 0.125 | 0.344 | 0.307 | -0.167 |
| GPCe 38:6 | 0.170 | 0.080 | 0.168 | 0.092 | 0.096 | 0.171 | -0.320 | -0.202 | 0.108 | 0.111 | 0.192 | 0.054 | -0.448 | -0.204 | -0.189 | 0.159 | 0.084 | -0.371 |
| GPCe 40:1 | -0.084 | -0.034 | -0.123 | -0.105 | -0.068 | -0.048 | 0.137 | 0.057 | -0.121 | -0.114 | -0.156 | -0.002 | 0.127 | 0.012 | 0.053 | -0.107 | -0.023 | 0.139 |
| GPCe 40:2 | 0.200 | 0.028 | 0.158 | 0.003 | 0.164 | 0.242 | -0.159 | -0.182 | 0.176 | 0.140 | 0.120 | 0.164 | -0.238 | -0.133 | -0.050 | 0.197 | 0.180 | -0.168 |
| GPCe 40:3 | 0.011 | -0.091 | 0.035 | -0.039 | 0.041 | 0.107 | -0.194 | -0.128 | 0.173 | 0.083 | -0.026 | 0.071 | -0.175 | -0.090 | 0.027 | 0.045 | 0.053 | -0.192 |
| GPCe 40:4 | 0.029 | 0.048 | -0.035 | 0.008 | 0.038 | -0.030 | -0.209 | -0.087 | 0.029 | -0.017 | -0.007 | 0.063 | -0.083 | -0.163 | -0.020 | -0.053 | -0.042 | -0.140 |
| GPCe 40:5 | 0.162 | -0.023 | 0.164 | -0.005 | 0.167 | 0.214 | -0.272 | -0.220 | 0.297 | 0.198 | 0.117 | 0.140 | -0.292 | -0.123 | 0.008 | 0.186 | 0.155 | -0.296 |
| GPCe 40:6 | 0.153 | 0.036 | 0.122 | 0.050 | 0.102 | 0.174 | -0.158 | -0.150 | 0.123 | 0.105 | 0.147 | 0.089 | -0.345 | -0.108 | -0.119 | 0.128 | 0.099 | -0.212 |
| GPCe 42:0 | -0.173 | -0.158 | -0.223 | -0.215 | -0.232 | -0.185 | -0.366 | -0.157 | -0.202 | -0.161 | -0.264 | -0.054 | -0.123 | -0.282 | -0.214 | -0.144 | -0.185 | -0.218 |
| GPCe 42:1 | 0.144 | 0.149 | 0.084 | 0.018 | 0.105 | 0.024 | -0.201 | -0.057 | 0.103 | 0.027 | 0.081 | 0.158 | -0.077 | -0.090 | 0.034 | 0.075 | 0.086 | -0.156 |
| GPCe 42:2 | 0.299 | 0.190 | 0.256 | 0.215 | 0.248 | 0.257 | -0.172 | -0.023 | 0.259 | 0.233 | 0.227 | 0.217 | -0.096 | -0.078 | 0.011 | 0.205 | 0.176 | -0.129 |
| GPCe 42:3 | 0.412 | 0.326 | 0.353 | 0.299 | 0.439 | 0.362 | -0.065 | 0.028 | 0.445 | 0.426 | 0.313 | 0.442 | 0.074 | 0.114 | 0.276 | 0.411 | 0.377 | -0.003 |
| GPCe 42:4 | 0.091 | -0.120 | 0.114 | 0.006 | 0.191 | 0.176 | -0.017 | -0.163 | 0.290 | 0.176 | 0.049 | 0.170 | -0.010 | 0.034 | 0.121 | 0.164 | 0.162 | 0.009 |
| GPCe 42:5 | 0.347 | 0.293 | 0.287 | 0.167 | 0.230 | 0.346 | -0.362 | 0.017 | 0.310 | 0.340 | 0.217 | 0.352 | -0.205 | -0.080 | 0.044 | 0.335 | 0.329 | -0.329 |
| GPCe 44:3 | 0.308 | 0.167 | 0.262 | 0.087 | 0.244 | 0.304 | -0.225 | -0.160 | 0.281 | 0.208 | 0.212 | 0.259 | -0.226 | -0.136 | -0.034 | 0.218 | 0.238 | -0.214 |
| GPCe 44:4 | 0.026 | 0.034 | 0.021 | 0.105 | -0.035 | 0.018 | -0.352 | -0.185 | -0.001 | 0.018 | 0.032 | -0.077 | -0.136 | -0.243 | -0.202 | -0.108 | -0.099 | -0.278 |
| GPCe 44:5 | -0.202 | -0.169 | -0.236 | -0.266 | -0.141 | -0.141 | -0.146 | -0.241 | -0.111 | -0.188 | -0.204 | -0.095 | -0.026 | -0.186 | -0.076 | -0.256 | -0.162 | -0.092 |
| GPCe 44:6 | -0.044 | -0.041 | -0.030 | -0.066 | -0.047 | -0.131 | -0.220 | -0.022 | 0.052 | -0.057 | -0.062 | 0.012 | -0.051 | -0.128 | 0.010 | -0.051 | -0.074 | -0.173 |
| SM (OH) 14:1 | 0.211 | 0.014 | 0.185 | -0.060 | 0.144 | 0.250 | -0.135 | -0.147 | 0.265 | 0.170 | 0.092 | 0.208 | -0.254 | -0.082 | -0.034 | 0.214 | 0.220 | -0.159 |
| SM (OH) 16:1 | 0.226 | 0.021 | 0.152 | -0.065 | 0.144 | 0.236 | -0.178 | -0.196 | 0.206 | 0.165 | 0.061 | 0.200 | -0.318 | -0.115 | -0.094 | 0.214 | 0.192 | -0.215 |
| SM (OH) 22:1 | 0.290 | 0.111 | 0.211 | 0.053 | 0.257 | 0.262 | -0.080 | -0.059 | 0.293 | 0.251 | 0.117 | 0.289 | -0.126 | 0.013 | 0.077 | 0.299 | 0.265 | -0.095 |
| SM (OH) 22:2 | 0.266 | 0.049 | 0.241 | -0.008 | 0.192 | 0.302 | -0.196 | -0.196 | 0.291 | 0.229 | 0.145 | 0.220 | -0.309 | -0.111 | -0.059 | 0.280 | 0.257 | -0.215 |
| SM (OH) 24:1 | 0.301 | 0.102 | 0.242 | 0.056 | 0.256 | 0.295 | -0.167 | -0.142 | 0.312 | 0.262 | 0.153 | 0.271 | -0.221 | -0.059 | 0.011 | 0.302 | 0.271 | -0.180 |
| SM 16:0 | 0.245 | 0.049 | 0.182 | -0.002 | 0.161 | 0.263 | -0.168 | -0.200 | 0.183 | 0.158 | 0.134 | 0.191 | -0.325 | -0.126 | -0.116 | 0.214 | 0.195 | -0.189 |
| SM 16:1 | 0.205 | 0.024 | 0.158 | -0.027 | 0.117 | 0.218 | -0.187 | -0.208 | 0.172 | 0.144 | 0.075 | 0.125 | -0.342 | -0.139 | -0.131 | 0.194 | 0.173 | -0.229 |
| SM 18:0 | 0.227 | 0.011 | 0.186 | -0.048 | 0.138 | 0.256 | -0.268 | -0.264 | 0.189 | 0.149 | 0.123 | 0.176 | -0.400 | -0.191 | -0.155 | 0.227 | 0.188 | -0.289 |
| SM 18:1 | 0.212 | 0.053 | 0.185 | 0.035 | 0.144 | 0.242 | -0.208 | -0.229 | 0.163 | 0.156 | 0.150 | 0.119 | -0.381 | -0.132 | -0.134 | 0.203 | 0.158 | -0.269 |
| SM 20:2 | 0.236 | 0.059 | 0.289 | 0.071 | 0.197 | 0.311 | -0.372 | -0.304 | 0.293 | 0.224 | 0.172 | 0.102 | -0.366 | -0.265 | -0.137 | 0.236 | 0.236 | -0.386 |
| SM 22:3 | 0.144 | 0.172 | 0.304 | 0.255 | 0.110 | 0.264 | -0.014 | 0.187 | 0.235 | 0.264 | 0.247 | 0.147 | 0.024 | 0.141 | 0.137 | 0.305 | 0.262 | 0.008 |
| SM 24:0 | 0.334 | 0.124 | 0.305 | 0.114 | 0.299 | 0.343 | -0.192 | -0.151 | 0.341 | 0.278 | 0.260 | 0.254 | -0.267 | -0.084 | 0.009 | 0.320 | 0.284 | -0.206 |
| SM 24:1 | 0.211 | -0.004 | 0.191 | -0.006 | 0.174 | 0.254 | -0.198 | -0.226 | 0.219 | 0.173 | 0.127 | 0.159 | -0.312 | -0.144 | -0.080 | 0.238 | 0.197 | -0.212 |
| SM 26:0 | 0.214 | 0.073 | 0.229 | 0.120 | 0.268 | 0.235 | -0.026 | -0.060 | 0.340 | 0.203 | 0.216 | 0.186 | -0.103 | 0.046 | 0.139 | 0.197 | 0.217 | -0.051 |
| SM 26:1 | 0.164 | 0.001 | 0.248 | 0.135 | 0.218 | 0.287 | -0.157 | -0.236 | 0.284 | 0.192 | 0.273 | 0.096 | -0.293 | -0.079 | -0.005 | 0.198 | 0.177 | -0.215 |