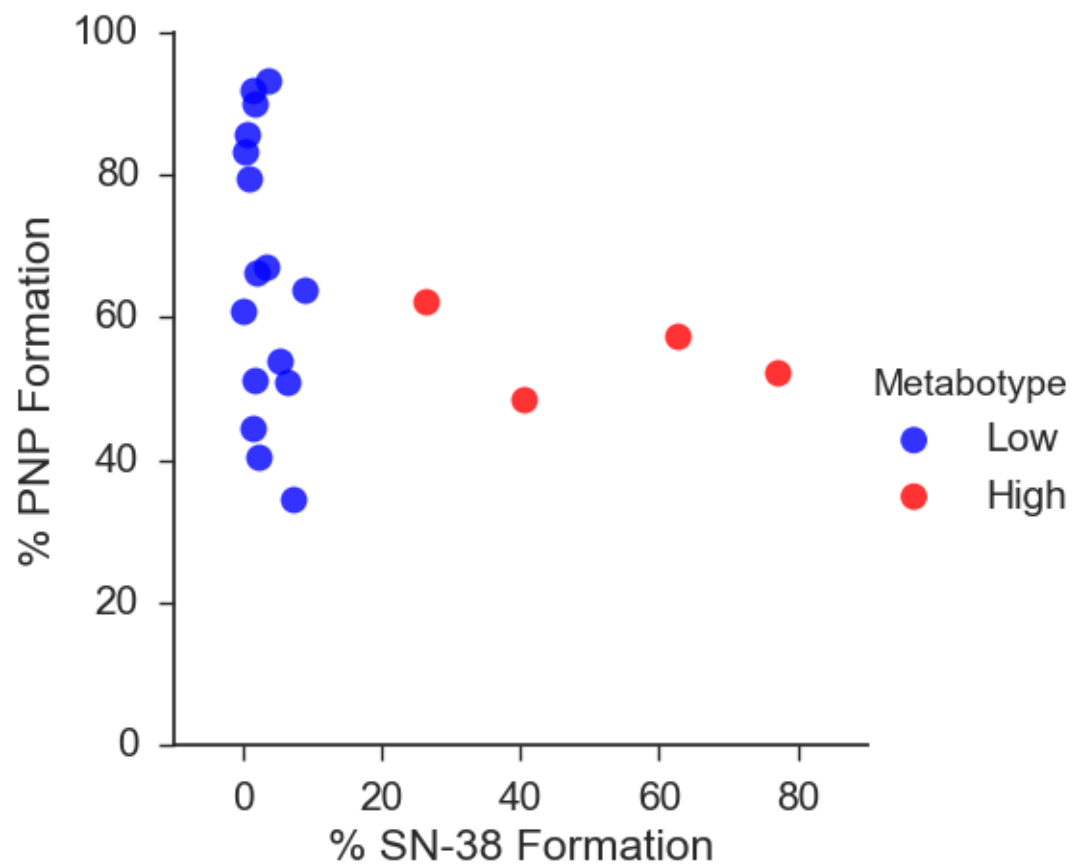


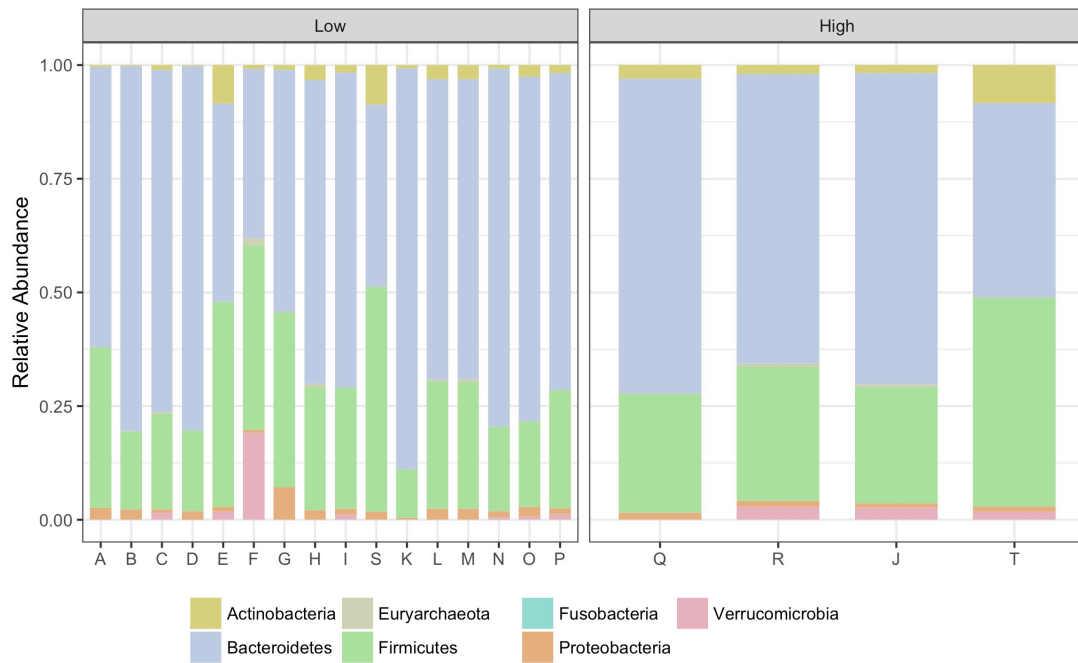
## Supplementary Information

### Human microbiome signatures of differential colorectal cancer drug metabolism

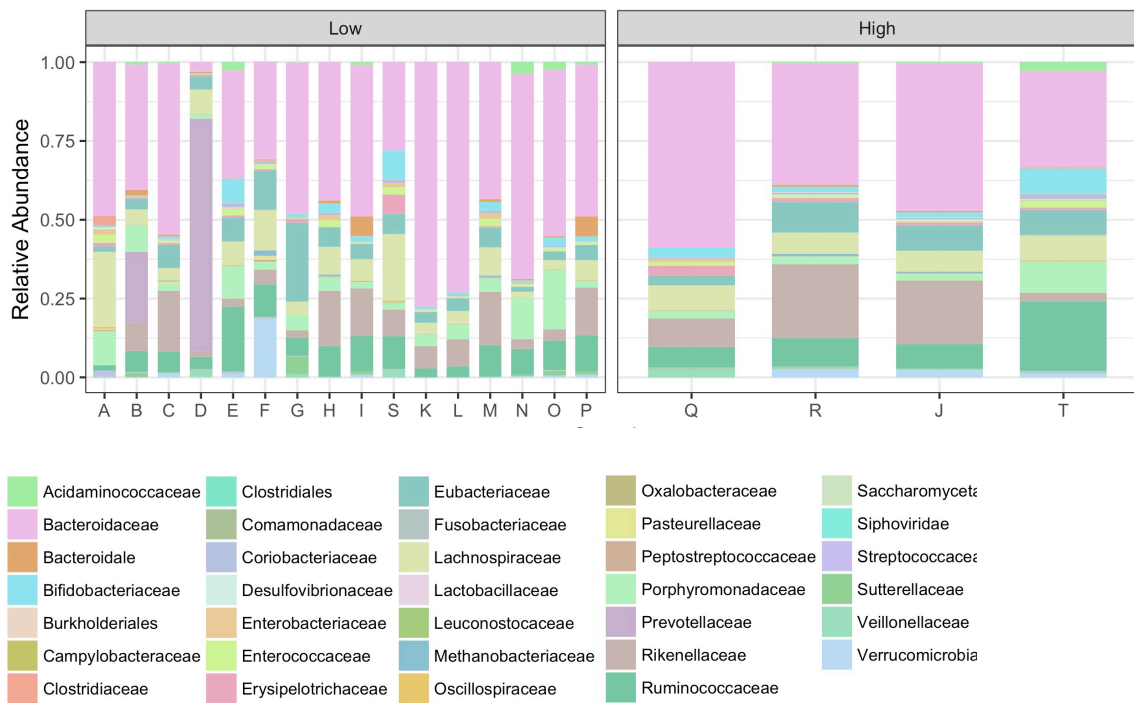
Leah Guthrie, Sanchit Gupta<sup>2</sup>, Johanna Daily<sup>2</sup>, Libusha Kelly<sup>1,2</sup>  
<sup>1</sup>Systems and Computational Biology; <sup>2</sup>Microbiology and Immunology at Albert Einstein  
College of Medicine

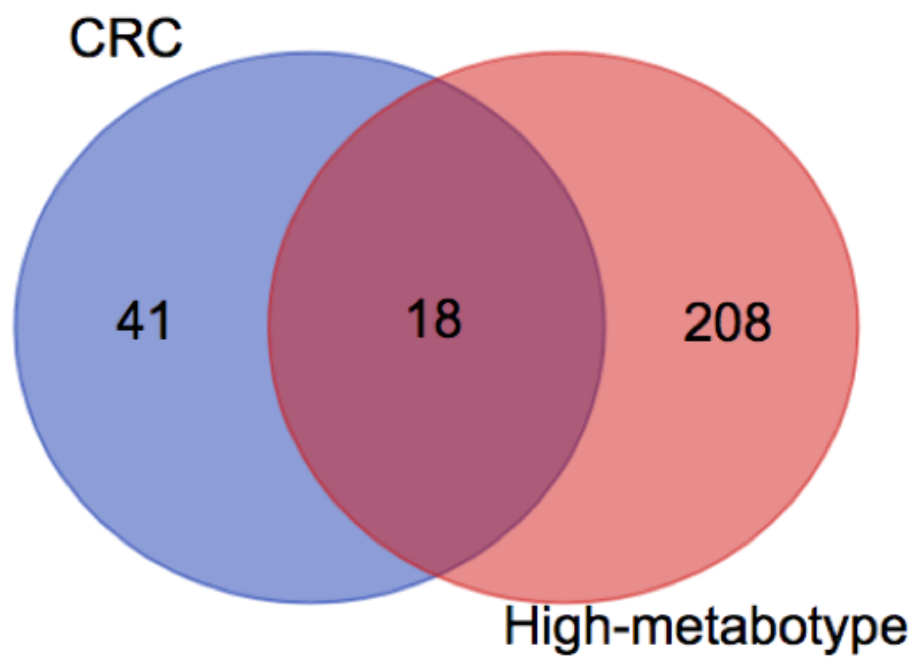


(a)



(b)





## Supplementary Figure Legends

**Figure S1.** No correlation between assays of BG activities of human fecal extracts using p-NPG and SN-38G as substrates. The 20 healthy fecal samples were processed as described for LC-MS/MS analysis. The conversion of p-Nitrophenyl  $\beta$ -D-glucuronide (PNPG) to p-Nitrophenyl (PNP) was determined using a plate-based absorbance assay as described by *Wallace et al, 2010*.

**Figure S2.** Microbial carriage is uniform at (a) the Phylum level, while variable at (b) the family level, but unlinked to metatypes. Taxonomic abundance was determined using MetaPhlan and collapsed at the level of Phylum and family. Statistical differences between the stratified metabolizer phenotypes, low and high, were determined using STAMP's implementation of the Welch's t-test with a Storey FDR, adjusted q-value < 0.05 and followed an effect size filter (ratio of proportions effect size < 2.00).

**Figure S3.** High metabotype participants and carcinoma patients carry overlapping sets of BGs. To examine the distribution of BGs in a colorectal cancer patient cohort, gene calls from the Feng et al, 2015 shotgun metagenomic study of patients with advanced adenomas, carcinomas and age matched controls, were compared to a database of cultured and metagenomically identified BGs. BGs carried by both high metabotype participants and carcinoma patients were identified and plotted in a Venn diagram.

Table S1. Participant characteristics

<b>ID</b>	<b>AGE</b>	<b>SEX</b>	<b>BMI</b>
A	25	Female	Normal
B	23	Female	Normal
C	24	Female	Normal
D	25	Male	Normal
E	27	Female	Normal
F	29	Female	Normal
G	29	Male	Overweight
H	21	Female	Normal
I	34	Male	Normal
J	28	Male	Normal
K	28	Female	Underweight
L	37	Male	Overweight
M	24	Male	Normal
N	29	Male	Normal
O	23	Male	Overweight
P	23	Female	Normal
Q	25	Female	Normal
R	36	Female	Normal
S	25	Female	Normal
T	28	Female	Normal

Table S2. Topological features of KEGG orthologous groups across all metagenomes

<i>GID</i>	<i>OR-type</i>	<i>BetweennessCentrality</i>	<i>Centrality Tier</i>
<i>K14273</i>	high-metabotype-depleted	0	peripheral
<i>K01204</i>	high-metabotype-depleted	0	peripheral
<i>K01505</i>	high-metabotype-depleted	0	peripheral
<i>K09457</i>	high-metabotype-depleted	0	peripheral
<i>K02230</i>	high-metabotype-depleted	0	peripheral
<i>K00929</i>	high-metabotype-depleted	0	peripheral
<i>K03800</i>	high-metabotype-depleted	0	peripheral
<i>K00729</i>	high-metabotype-depleted	0	peripheral
<i>K01259</i>	high-metabotype-depleted	0	peripheral
<i>K02474</i>	high-metabotype-depleted	0	peripheral
<i>K00285</i>	high-metabotype-depleted	0	peripheral
<i>K02749</i>	high-metabotype-depleted	0	peripheral
<i>K03403</i>	high-metabotype-depleted	0	peripheral
<i>K01041</i>	high-metabotype-depleted	0	peripheral
<i>K03367</i>	high-metabotype-depleted	0	peripheral
<i>K01452</i>	high-metabotype-depleted	0	peripheral
<i>K10797</i>	high-metabotype-depleted	0	peripheral
<i>K03927</i>	high-metabotype-depleted	0	peripheral
<i>K01525</i>	high-metabotype-depleted	0	peripheral

<i>K01661</i>	high-metabotype-depleted	0	peripheral
<i>K00355</i>	high-metabotype-depleted	0	peripheral
<i>K00588</i>	high-metabotype-depleted	0	peripheral
<i>K00097</i>	high-metabotype-depleted	0	peripheral
<i>K01212</i>	high-metabotype-depleted	0	peripheral
<i>K14534</i>	high-metabotype-depleted	0	peripheral
<i>K00073</i>	high-metabotype-depleted	0	peripheral
<i>K02744</i>	high-metabotype-depleted	0	peripheral
<i>K06281</i>	high-metabotype-depleted	0	peripheral
<i>K01820</i>	high-metabotype-depleted	0	peripheral
<i>K06164</i>	high-metabotype-depleted	0	peripheral
<i>K01198</i>	high-metabotype-depleted	0	peripheral
<i>K00791</i>	high-metabotype-depleted	0	peripheral
<i>K12503</i>	high-metabotype-depleted	0	peripheral
<i>K01470</i>	high-metabotype-depleted	0	peripheral
<i>K03429</i>	high-metabotype-depleted	0	peripheral
<i>K00803</i>	high-metabotype-depleted	0	peripheral
<i>K01076</i>	high-metabotype-depleted	0	peripheral
<i>K02750</i>	high-metabotype-depleted	0	peripheral
<i>K00983</i>	high-metabotype-depleted	0	peripheral
<i>K01207</i>	high-metabotype-depleted	0	peripheral
<i>K06606</i>	high-metabotype-depleted	0	peripheral



<i>K00950</i>	high-metabotype-depleted	0	peripheral
<i>K01878</i>	high-metabotype-depleted	0	peripheral
<i>K03340</i>	high-metabotype-depleted	0	peripheral
<i>K00067</i>	high-metabotype-depleted	0	peripheral
<i>K01667</i>	high-metabotype-depleted	0	peripheral
<i>K09883</i>	high-metabotype-depleted	0	peripheral
<i>K10012</i>	high-metabotype-depleted	0	peripheral
<i>K01892</i>	high-metabotype-depleted	0	peripheral
<i>K02472</i>	high-metabotype-depleted	0	peripheral
<i>K03795</i>	high-metabotype-depleted	0	peripheral
<i>K08963</i>	high-metabotype-depleted	0	peripheral
<i>K01708</i>	high-metabotype-depleted	0	peripheral
<i>K00483</i>	high-metabotype-depleted	0	peripheral
<i>K02815</i>	high-metabotype-depleted	0	peripheral
<i>K02771</i>	high-metabotype-depleted	0	peripheral
<i>K03274</i>	high-metabotype-depleted	0	peripheral
<i>K01876</i>	high-metabotype-depleted	0	peripheral
<i>K00423</i>	high-metabotype-depleted	0	peripheral
<i>K01867</i>	high-metabotype-depleted	0	peripheral
<i>K01051</i>	high-metabotype-depleted	0	peripheral
<i>K01132</i>	high-metabotype-depleted	0	peripheral
<i>K01209</i>	high-metabotype-depleted	0	peripheral

<i>K01887</i>	high-metabotype-depleted	0	peripheral
<i>K01784</i>	high-metabotype-depleted	0	peripheral
<i>K01627</i>	high-metabotype-depleted	0	peripheral
<i>K01880</i>	high-metabotype-depleted	0	peripheral
<i>K01515</i>	high-metabotype-depleted	0	peripheral
<i>K05934</i>	high-metabotype-depleted	0	peripheral
<i>K01042</i>	high-metabotype-depleted	0	peripheral
<i>K01883</i>	high-metabotype-depleted	0	peripheral
<i>K10985</i>	high-metabotype-depleted	0	peripheral
<i>K00257</i>	high-metabotype-depleted	0	peripheral
<i>K11191</i>	high-metabotype-depleted	0	peripheral
<i>K11192</i>	high-metabotype-depleted	0	peripheral
<i>K01890</i>	high-metabotype-depleted	0	peripheral
<i>K01451</i>	high-metabotype-depleted	0	peripheral
<i>K01001</i>	high-metabotype-depleted	0	peripheral
<i>K05780</i>	high-metabotype-depleted	0	peripheral
<i>K01866</i>	high-metabotype-depleted	0	peripheral
<i>K01869</i>	high-metabotype-depleted	0	peripheral
<i>K12554</i>	high-metabotype-depleted	0	peripheral
<i>K01119</i>	high-metabotype-depleted	0	peripheral
<i>K02259</i>	high-metabotype-depleted	0	peripheral
<i>K02190</i>	high-metabotype-depleted	0	peripheral

<i>K02377</i>	high-metabotype-depleted	0	peripheral
<i>K05396</i>	high-metabotype-depleted	0	peripheral
<i>K01881</i>	high-metabotype-depleted	0	peripheral
<i>K00881</i>	high-metabotype-depleted	0	peripheral
<i>K08092</i>	high-metabotype-depleted	0	peripheral
<i>K01873</i>	high-metabotype-depleted	0	peripheral
<i>K01761</i>	high-metabotype-depleted	0	peripheral
<i>K01868</i>	high-metabotype-depleted	0	peripheral
<i>K01813</i>	high-metabotype-depleted	0	peripheral
<i>K01779</i>	high-metabotype-depleted	0	peripheral
<i>K01442</i>	high-metabotype-depleted	0	peripheral
<i>K00096</i>	high-metabotype-depleted	0	peripheral
<i>K01870</i>	high-metabotype-depleted	0	peripheral
<i>K03390</i>	high-metabotype-depleted	0	peripheral
<i>K07806</i>	high-metabotype-depleted	0	peripheral
<i>K01889</i>	high-metabotype-depleted	0	peripheral
<i>K01950</i>	high-metabotype-depleted	0	peripheral
<i>K03269</i>	high-metabotype-depleted	0	peripheral
<i>K03404</i>	high-metabotype-depleted	0	peripheral
<i>K02745</i>	high-metabotype-depleted	0	peripheral
<i>K09516</i>	high-metabotype-depleted	0	peripheral
<i>K01906</i>	high-metabotype-depleted	0	peripheral

<i>K02169</i>	high-metabotype-depleted	0	peripheral
<i>K05275</i>	high-metabotype-depleted	0	peripheral
<i>K04720</i>	high-metabotype-depleted	0	peripheral
<i>K00019</i>	high-metabotype-depleted	0	peripheral
<i>K04568</i>	high-metabotype-depleted	0	peripheral
<i>K01844</i>	high-metabotype-depleted	0	peripheral
<i>K12308</i>	high-metabotype-depleted	0	peripheral
<i>K06045</i>	high-metabotype-depleted	0	peripheral
<i>K00805</i>	high-metabotype-depleted	0	peripheral
<i>K01684</i>	high-metabotype-depleted	0	peripheral
<i>K00086</i>	high-metabotype-depleted	0	peripheral
<i>K00972</i>	high-metabotype-depleted	0	peripheral
<i>K01879</i>	high-metabotype-depleted	0	peripheral
<i>K04567</i>	high-metabotype-depleted	0	peripheral
<i>K09019</i>	high-metabotype-depleted	0	peripheral
<i>K01201</i>	high-metabotype-depleted	0	peripheral
<i>K01564</i>	high-metabotype-depleted	0	peripheral
<i>K00043</i>	high-metabotype-depleted	0	peripheral
<i>K02809</i>	high-metabotype-depleted	0	peripheral
<i>K02810</i>	high-metabotype-depleted	0	peripheral
<i>K05297</i>	high-metabotype-depleted	0	peripheral
<i>K14338</i>	high-metabotype-depleted	0	peripheral

<i>K01872</i>	high-metabotype-depleted	0	peripheral
<i>K03366</i>	high-metabotype-depleted	0	peripheral
<i>K02567</i>	high-metabotype-depleted	0	peripheral
<i>K00090</i>	high-metabotype-depleted	0	peripheral
<i>K09759</i>	high-metabotype-depleted	0	peripheral
<i>K13921</i>	high-metabotype-depleted	0	peripheral
<i>K02763</i>	high-metabotype-depleted	0	peripheral
<i>K01112</i>	high-metabotype-depleted	0	peripheral
<i>K05305</i>	high-metabotype-depleted	0	peripheral
<i>K04566</i>	high-metabotype-depleted	0	peripheral
<i>K02610</i>	high-metabotype-depleted	0	peripheral
<i>K00082</i>	high-metabotype-depleted	0	peripheral
<i>K08678</i>	high-metabotype-depleted	0	peripheral
<i>K01101</i>	high-metabotype-depleted	0	peripheral
<i>K12527</i>	high-metabotype-depleted	0	peripheral
<i>K00980</i>	high-metabotype-depleted	0	peripheral
<i>K02764</i>	high-metabotype-depleted	0	peripheral
<i>K02765</i>	high-metabotype-depleted	0	peripheral
<i>K06151</i>	high-metabotype-depleted	0	peripheral
<i>K06152</i>	high-metabotype-depleted	0	peripheral
<i>K01590</i>	high-metabotype-depleted	0	peripheral
<i>K03392</i>	high-metabotype-depleted	0	peripheral

<i>K08679</i>	high-metabotype-depleted	0	peripheral
<i>K06282</i>	high-metabotype-depleted	0	peripheral
<i>K03388</i>	high-metabotype-depleted	0	peripheral
<i>K00020</i>	high-metabotype-depleted	0	peripheral
<i>K08261</i>	high-metabotype-depleted	0	peripheral
<i>K04022</i>	high-metabotype-depleted	0	peripheral
<i>K13043</i>	high-metabotype-depleted	0	peripheral
<i>K03862</i>	high-metabotype-depleted	0	peripheral
<i>K04091</i>	high-metabotype-depleted	0	peripheral
<i>K03635</i>	high-metabotype-depleted	0	peripheral
<i>K14164</i>	Other	0	peripheral
<i>K06166</i>	Other	0	peripheral
<i>K14188</i>	Other	0	peripheral
<i>K06879</i>	Other	0	peripheral
<i>K01199</i>	Other	0	peripheral
<i>K00836</i>	Other	0	peripheral
<i>K00462</i>	Other	0	peripheral
<i>K11196</i>	Other	0	peripheral
<i>K01916</i>	Other	0	peripheral
<i>K05712</i>	Other	0	peripheral
<i>K03332</i>	Other	0	peripheral
<i>K08358</i>	Other	0	peripheral
<i>K13019</i>	Other	0	peripheral
<i>K09461</i>	Other	0	peripheral
<i>K12528</i>	Other	0	peripheral
<i>K03389</i>	Other	0	peripheral
<i>K13566</i>	Other	0	peripheral
<i>K14465</i>	Other	0	peripheral
<i>K02746</i>	Other	0	peripheral
<i>K12452</i>	Other	0	peripheral
<i>K05601</i>	Other	0	peripheral
<i>K10986</i>	Other	0	peripheral

<i>K08969</i>	Other	0	peripheral
<i>K01210</i>	Other	0	peripheral
<i>K02747</i>	Other	0	peripheral
<i>K02813</i>	Other	0	peripheral
<i>K11646</i>	Other	0	peripheral
<i>K05395</i>	Other	0	peripheral
<i>K09882</i>	Other	0	peripheral
<i>K01574</i>	Other	0	peripheral
<i>K07310</i>	Other	0	peripheral
<i>K03405</i>	Other	0	peripheral
<i>K00119</i>	Other	0	peripheral
<i>K12529</i>	Other	0	peripheral
<i>K11214</i>	Other	0	peripheral
<i>K10984</i>	Other	0	peripheral
<i>K00373</i>	Other	0	peripheral
<i>K02808</i>	Other	0	peripheral
<i>K08357</i>	Other	0	peripheral
<i>K00370</i>	Other	0	peripheral
<i>K00371</i>	Other	0	peripheral
<i>K01718</i>	Other	0	peripheral
<i>K01044</i>	Other	0	peripheral
<i>K00130</i>	Other	0	peripheral
<i>K00934</i>	Other	0	peripheral
<i>K03863</i>	Other	0	peripheral
<i>K07309</i>	high-metabotype-associated	0	peripheral
<i>K02814</i>	high-metabotype-associated	0	peripheral
<i>K12661</i>	high-metabotype-associated	0	peripheral
<i>K08312</i>	high-metabotype-associated	0	peripheral
<i>K13774</i>	high-metabotype-associated	0	peripheral
<i>K02752</i>	high-metabotype-associated	0	peripheral
<i>K02753</i>	high-metabotype-associated	0	peripheral
<i>K06193</i>	high-metabotype-associated	0	peripheral
<i>K08351</i>	high-metabotype-associated	0	peripheral

<i>K04032</i>	high-metabotype-associated	0	peripheral
<i>K04480</i>	high-metabotype-associated	0	peripheral
<i>K00523</i>	high-metabotype-associated	0	peripheral
<i>K04103</i>	high-metabotype-associated	0	peripheral
<i>K00374</i>	high-metabotype-associated	0	peripheral
<i>K00372</i>	high-metabotype-associated	0	peripheral
<i>K06165</i>	high-metabotype-associated	0	peripheral
<i>K09835</i>	high-metabotype-associated	0	peripheral
<i>K05352</i>	high-metabotype-associated	0	peripheral
<i>K08096</i>	high-metabotype-associated	0	peripheral
<i>K00066</i>	high-metabotype-associated	0	peripheral
<i>K14080</i>	high-metabotype-associated	0	peripheral
<i>K14081</i>	high-metabotype-associated	0	peripheral
<i>K04835</i>	high-metabotype-associated	0	peripheral
<i>K00114</i>	high-metabotype-associated	0	peripheral
<i>K01725</i>	high-metabotype-associated	0	peripheral
<i>K01705</i>	high-metabotype-associated	0	peripheral
<i>K03636</i>	high-metabotype-associated	0	peripheral
<i>K03895</i>	high-metabotype-enriched	0	peripheral
<i>K00484</i>	high-metabotype-enriched	0	peripheral
<i>K05973</i>	high-metabotype-enriched	0	peripheral
<i>K00004</i>	Other	0	peripheral
<i>K00315</i>	Other	0	peripheral



<i>K00360</i>	Other	0	peripheral
<i>K00485</i>	Other	0	peripheral
<i>K00493</i>	Other	0	peripheral
<i>K00587</i>	Other	0	peripheral
<i>K00591</i>	Other	0	peripheral
<i>K00635</i>	Other	0	peripheral
<i>K00816</i>	Other	0	peripheral
<i>K00875</i>	Other	0	peripheral
<i>K00887</i>	Other	0	peripheral
<i>K00922</i>	Other	0	peripheral
<i>K01049</i>	Other	0	peripheral
<i>K01237</i>	Other	0	peripheral
<i>K01253</i>	Other	0	peripheral
<i>K01522</i>	Other	0	peripheral
<i>K02568</i>	Other	0	peripheral
<i>K02609</i>	Other	0	peripheral
<i>K02611</i>	Other	0	peripheral
<i>K02612</i>	Other	0	peripheral
<i>K02613</i>	Other	0	peripheral
<i>K03391</i>	Other	0	peripheral
<i>K03857</i>	Other	0	peripheral
<i>K04097</i>	Other	0	peripheral
<i>K04099</i>	Other	0	peripheral
<i>K06118</i>	Other	0	peripheral
<i>K06611</i>	Other	0	peripheral
<i>K07249</i>	Other	0	peripheral
<i>K07534</i>	Other	0	peripheral
<i>K07548</i>	Other	0	peripheral
<i>K10105</i>	Other	0	peripheral
<i>K11211</i>	Other	0	peripheral
<i>K11422</i>	Other	0	peripheral
<i>K11778</i>	Other	0	peripheral
<i>K12420</i>	Other	0	peripheral
<i>K12504</i>	Other	0	peripheral
<i>K13028</i>	Other	0	peripheral
<i>K13995</i>	Other	0	peripheral
<i>K14268</i>	Other	0	peripheral
<i>K14447</i>	Other	0	peripheral
<i>K14449</i>	Other	0	peripheral
<i>K08683</i>	Other	4.00E-08	peripheral

<i>K11147</i>	high-metabotype-depleted	5.00E-08	peripheral
<i>K11150</i>	high-metabotype-depleted	5.00E-08	peripheral
<i>K11153</i>	high-metabotype-depleted	5.00E-08	peripheral
<i>K11152</i>	Other	5.00E-08	peripheral
<i>K01746</i>	high-metabotype-depleted	9.00E-08	peripheral
<i>K03330</i>	Other	9.00E-08	peripheral
<i>K09482</i>	high-metabotype-associated	9.00E-08	peripheral
<i>K00147</i>	high-metabotype-depleted	1.40E-07	peripheral
<i>K02799</i>	high-metabotype-depleted	1.70E-07	peripheral
<i>K02800</i>	high-metabotype-depleted	1.70E-07	peripheral
<i>K02798</i>	high-metabotype-depleted	1.70E-07	peripheral
<i>K01488</i>	high-metabotype-depleted	1.80E-07	peripheral
<i>K01702</i>	Other	1.80E-07	peripheral
<i>K14267</i>	high-metabotype-depleted	2.30E-07	peripheral
<i>K13479</i>	high-metabotype-depleted	2.80E-07	peripheral
<i>K13481</i>	high-metabotype-depleted	2.80E-07	peripheral
<i>K03786</i>	high-metabotype-depleted	2.80E-07	peripheral
<i>K00087</i>	high-metabotype-depleted	2.80E-07	peripheral
<i>K03785</i>	high-metabotype-depleted	2.80E-07	peripheral
<i>K13480</i>	Other	2.80E-07	peripheral
<i>K13483</i>	Other	2.80E-07	peripheral
<i>K11178</i>	high-metabotype-associated	2.80E-07	peripheral
<i>K11177</i>	high-metabotype-associated	2.80E-07	peripheral
<i>K13482</i>	high-metabotype-enriched	2.80E-07	peripheral

<i>K00919</i>	high-metabotype-depleted	3.50E-07	peripheral
<i>K00014</i>	high-metabotype-depleted	3.50E-07	peripheral
<i>K01716</i>	high-metabotype-depleted	3.50E-07	peripheral
<i>K00841</i>	high-metabotype-depleted	3.50E-07	peripheral
<i>K08281</i>	high-metabotype-depleted	4.00E-07	peripheral
<i>K00985</i>	high-metabotype-depleted	4.30E-07	peripheral
<i>K01720</i>	Other	4.40E-07	peripheral
<i>K00932</i>	Other	4.60E-07	peripheral
<i>K00442</i>	Other	4.60E-07	peripheral
<i>K00441</i>	Other	4.60E-07	peripheral
<i>K00443</i>	Other	4.60E-07	peripheral
<i>K00440</i>	high-metabotype-enriched	4.60E-07	peripheral
<i>K06127</i>	high-metabotype-depleted	4.70E-07	peripheral
<i>K00891</i>	high-metabotype-depleted	4.70E-07	peripheral
<i>K00878</i>	high-metabotype-depleted	6.10E-07	peripheral
<i>K00703</i>	high-metabotype-depleted	7.00E-07	peripheral
<i>K01952</i>	high-metabotype-depleted	7.00E-07	peripheral
<i>K01937</i>	high-metabotype-depleted	7.70E-07	peripheral
<i>K01934</i>	high-metabotype-depleted	8.40E-07	peripheral
<i>K04561</i>	high-metabotype-associated	1.03E-06	peripheral
<i>K03421</i>	high-metabotype-associated	1.05E-06	peripheral
<i>K00400</i>	high-metabotype-associated	1.05E-06	peripheral
<i>K00399</i>	high-metabotype-associated	1.05E-06	peripheral
<i>K03422</i>	high-metabotype-associated	1.05E-06	peripheral

<i>K00401</i>	high-metabotype-enriched	1.05E-06	peripheral
<i>K00402</i>	high-metabotype-enriched	1.05E-06	peripheral
<i>K05887</i>	high-metabotype-depleted	1.10E-06	peripheral
<i>K01179</i>	high-metabotype-depleted	1.33E-06	peripheral
<i>K01225</i>	high-metabotype-depleted	1.33E-06	peripheral
<i>K00060</i>	Other	1.41E-06	peripheral
<i>K01951</i>	high-metabotype-depleted	1.63E-06	peripheral
<i>K05708</i>	high-metabotype-associated	1.71E-06	peripheral
<i>K05709</i>	Other	1.71E-06	peripheral
<i>K00133</i>	high-metabotype-depleted	1.83E-06	peripheral
<i>K03781</i>	high-metabotype-depleted	1.86E-06	peripheral
<i>K01496</i>	high-metabotype-depleted	1.87E-06	peripheral
<i>K05979</i>	high-metabotype-depleted	1.97E-06	peripheral
<i>K01941</i>	Other	2.00E-06	peripheral
<i>K07405</i>	high-metabotype-depleted	2.06E-06	peripheral
<i>K01176</i>	high-metabotype-depleted	2.06E-06	peripheral
<i>K01069</i>	high-metabotype-depleted	2.37E-06	peripheral
<i>K01588</i>	high-metabotype-depleted	2.47E-06	peripheral
<i>K01499</i>	Other	2.50E-06	peripheral
<i>K03779</i>	high-metabotype-depleted	2.66E-06	peripheral
<i>K03780</i>	Other	2.66E-06	peripheral
<i>K00059</i>	high-metabotype-depleted	3.52E-06	peripheral
<i>K02189</i>	high-metabotype-depleted	3.52E-06	peripheral
<i>K02191</i>	high-metabotype-depleted	3.52E-06	peripheral

<i>K01933</i>	high-metabotype-depleted	3.72E-06	peripheral
<i>K06863</i>	high-metabotype-associated	3.87E-06	peripheral
<i>K00882</i>	high-metabotype-depleted	3.88E-06	peripheral
<i>K08692</i>	Other	3.89E-06	peripheral
<i>K14067</i>	Other	3.89E-06	peripheral
<i>K00145</i>	high-metabotype-depleted	4.48E-06	peripheral
<i>K00053</i>	high-metabotype-depleted	4.61E-06	peripheral
<i>K00700</i>	high-metabotype-depleted	5.79E-06	peripheral
<i>K01465</i>	high-metabotype-depleted	5.88E-06	peripheral
<i>K05607</i>	Other	6.37E-06	peripheral
<i>K13766</i>	Other	6.37E-06	peripheral
<i>K12235</i>	Other	7.24E-06	peripheral
<i>K01816</i>	high-metabotype-depleted	7.60E-06	peripheral
<i>K00954</i>	high-metabotype-depleted	7.69E-06	peripheral
<i>K02201</i>	high-metabotype-associated	7.69E-06	peripheral
<i>K01576</i>	high-metabotype-associated	7.89E-06	peripheral
<i>K00645</i>	high-metabotype-depleted	8.85E-06	peripheral
<i>K13935</i>	high-metabotype-enriched	8.85E-06	peripheral
<i>K00290</i>	high-metabotype-depleted	8.99E-06	peripheral
<i>K09789</i>	high-metabotype-depleted	9.79E-06	peripheral
<i>K02170</i>	high-metabotype-associated	9.79E-06	peripheral
<i>K10536</i>	high-metabotype-depleted	9.89E-06	peripheral
<i>K04486</i>	high-metabotype-depleted	9.96E-06	peripheral
<i>K06446</i>	high-metabotype-associated	1.03E-05	peripheral

<i>K01703</i>	high-metabotype-depleted	1.03E-05	peripheral
<i>K01704</i>	high-metabotype-depleted	1.03E-05	peripheral
<i>K01826</i>	Other	1.06E-05	peripheral
<i>K00500</i>	high-metabotype-depleted	1.10E-05	peripheral
<i>K00941</i>	high-metabotype-depleted	1.14E-05	peripheral
<i>K00877</i>	Other	1.14E-05	peripheral
<i>K01945</i>	high-metabotype-depleted	1.31E-05	peripheral
<i>K01935</i>	high-metabotype-depleted	1.36E-05	peripheral
<i>K01487</i>	high-metabotype-depleted	1.45E-05	peripheral
<i>K13923</i>	high-metabotype-depleted	1.50E-05	peripheral
<i>K00852</i>	high-metabotype-depleted	1.55E-05	peripheral
<i>K07251</i>	high-metabotype-depleted	1.56E-05	peripheral
<i>K02340</i>	high-metabotype-depleted	1.57E-05	peripheral
<i>K02342</i>	high-metabotype-depleted	1.57E-05	peripheral
<i>K02341</i>	high-metabotype-depleted	1.57E-05	peripheral
<i>K02337</i>	high-metabotype-depleted	1.57E-05	peripheral
<i>K02335</i>	high-metabotype-depleted	1.57E-05	peripheral
<i>K02338</i>	high-metabotype-depleted	1.57E-05	peripheral
<i>K02343</i>	high-metabotype-depleted	1.57E-05	peripheral
<i>K03763</i>	high-metabotype-depleted	1.57E-05	peripheral
<i>K02345</i>	Other	1.57E-05	peripheral
<i>K02344</i>	Other	1.57E-05	peripheral
<i>K02319</i>	high-metabotype-associated	1.57E-05	peripheral

<i>K02339</i>	high-metabotype-associated	1.57E-05	peripheral
<i>K02323</i>	high-metabotype-associated	1.57E-05	peripheral
<i>K02322</i>	high-metabotype-associated	1.57E-05	peripheral
<i>K14159</i>	high-metabotype-enriched	1.57E-05	peripheral
<i>K02324</i>	Other	1.57E-05	peripheral
<i>K02327</i>	Other	1.57E-05	peripheral
<i>K01071</i>	high-metabotype-depleted	1.62E-05	peripheral
<i>K00835</i>	Other	1.65E-05	peripheral
<i>K00872</i>	high-metabotype-depleted	1.68E-05	peripheral
<i>K02204</i>	high-metabotype-depleted	1.68E-05	peripheral
<i>K01486</i>	high-metabotype-depleted	1.70E-05	peripheral
<i>K00287</i>	high-metabotype-depleted	1.75E-05	peripheral
<i>K13938</i>	Other	1.75E-05	peripheral
<i>K00689</i>	high-metabotype-depleted	1.80E-05	peripheral
<i>K05341</i>	high-metabotype-depleted	1.80E-05	peripheral
<i>K03185</i>	Other	1.85E-05	peripheral
<i>K10805</i>	high-metabotype-depleted	1.90E-05	peripheral
<i>K10806</i>	high-metabotype-depleted	1.90E-05	peripheral
<i>K10804</i>	high-metabotype-depleted	1.90E-05	peripheral
<i>K01874</i>	high-metabotype-depleted	2.20E-05	peripheral
<i>K03562</i>	high-metabotype-depleted	2.34E-05	peripheral
<i>K01220</i>	Other	2.35E-05	peripheral
<i>K07516</i>	high-metabotype-depleted	2.40E-05	peripheral
<i>K07256</i>	Other	2.42E-05	peripheral
<i>K06120</i>	high-metabotype-depleted	2.47E-05	peripheral

<i>K06122</i>	high-metabotype-depleted	2.47E-05	peripheral
<i>K06121</i>	Other	2.47E-05	peripheral
<i>K01509</i>	Other	2.50E-05	peripheral
<i>K00074</i>	high-metabotype-depleted	2.56E-05	peripheral
<i>K12255</i>	Other	2.57E-05	peripheral
<i>K00216</i>	high-metabotype-depleted	2.61E-05	peripheral
<i>K00297</i>	high-metabotype-depleted	2.65E-05	peripheral
<i>K01712</i>	high-metabotype-depleted	2.67E-05	peripheral
<i>K00904</i>	Other	2.83E-05	peripheral
<i>K01707</i>	Other	2.91E-05	peripheral
<i>K02371</i>	high-metabotype-depleted	2.97E-05	peripheral
<i>K10780</i>	high-metabotype-associated	2.97E-05	peripheral
<i>K01893</i>	high-metabotype-depleted	3.06E-05	peripheral
<i>K01560</i>	high-metabotype-depleted	3.09E-05	peripheral
<i>K01561</i>	high-metabotype-depleted	3.09E-05	peripheral
<i>K00800</i>	high-metabotype-depleted	3.25E-05	peripheral
<i>K01057</i>	high-metabotype-depleted	3.26E-05	peripheral
<i>K07404</i>	high-metabotype-depleted	3.26E-05	peripheral
<i>K02819</i>	high-metabotype-depleted	3.30E-05	peripheral
<i>K02818</i>	high-metabotype-depleted	3.30E-05	peripheral
<i>K02817</i>	Other	3.30E-05	peripheral
<i>K00895</i>	high-metabotype-depleted	3.39E-05	peripheral
<i>K00819</i>	high-metabotype-depleted	3.41E-05	peripheral
<i>K00647</i>	high-metabotype-depleted	3.54E-05	peripheral



<i>K09458</i>	high-metabotype-depleted	3.54E-05	peripheral
<i>K02303</i>	high-metabotype-depleted	3.59E-05	peripheral
<i>K02496</i>	Other	3.59E-05	peripheral
<i>K01792</i>	high-metabotype-depleted	3.71E-05	peripheral
<i>K01770</i>	high-metabotype-depleted	3.85E-05	peripheral
<i>K11176</i>	Other	3.85E-05	peripheral
<i>K01502</i>	high-metabotype-depleted	3.85E-05	peripheral
<i>K00224</i>	Other	3.92E-05	peripheral
<i>K01908</i>	high-metabotype-associated	4.15E-05	peripheral
<i>K03336</i>	high-metabotype-depleted	4.17E-05	peripheral
<i>K02803</i>	Other	4.17E-05	peripheral
<i>K02804</i>	Other	4.17E-05	peripheral
<i>K02802</i>	high-metabotype-associated	4.17E-05	peripheral
<i>K14379</i>	high-metabotype-depleted	4.18E-05	peripheral
<i>K03841</i>	high-metabotype-depleted	4.20E-05	peripheral
<i>K04041</i>	high-metabotype-depleted	4.20E-05	peripheral
<i>K02446</i>	high-metabotype-depleted	4.20E-05	peripheral
<i>K00137</i>	high-metabotype-associated	4.21E-05	peripheral
<i>K00833</i>	high-metabotype-depleted	4.24E-05	peripheral
<i>K00927</i>	high-metabotype-depleted	4.25E-05	peripheral
<i>K00885</i>	Other	4.57E-05	peripheral
<i>K01838</i>	high-metabotype-depleted	4.62E-05	peripheral
<i>K00863</i>	high-metabotype-depleted	4.63E-05	peripheral
<i>K05878</i>	high-metabotype-depleted	4.63E-05	peripheral

<i>K05879</i>	high-metabotype-depleted	4.63E-05	peripheral
<i>K01611</i>	high-metabotype-depleted	4.85E-05	peripheral
<i>K01856</i>	Other	5.26E-05	peripheral
<i>K05342</i>	Other	5.32E-05	peripheral
<i>K01424</i>	high-metabotype-depleted	5.34E-05	peripheral
<i>K01953</i>	high-metabotype-depleted	5.34E-05	peripheral
<i>K01914</i>	high-metabotype-depleted	5.34E-05	peripheral
<i>K12658</i>	high-metabotype-depleted	5.46E-05	peripheral
<i>K01907</i>	high-metabotype-enriched	5.50E-05	peripheral
<i>K01968</i>	Other	5.72E-05	peripheral
<i>K01969</i>	high-metabotype-associated	5.72E-05	peripheral
<i>K00134</i>	high-metabotype-depleted	5.77E-05	peripheral
<i>K00150</i>	Other	5.77E-05	peripheral
<i>K05298</i>	high-metabotype-enriched	5.77E-05	peripheral
<i>K10705</i>	Other	5.77E-05	peripheral
<i>K00558</i>	high-metabotype-depleted	5.78E-05	peripheral
<i>K01095</i>	high-metabotype-depleted	5.80E-05	peripheral
<i>K01096</i>	Other	5.80E-05	peripheral
<i>K08352</i>	high-metabotype-depleted	5.83E-05	peripheral
<i>K08354</i>	high-metabotype-depleted	5.83E-05	peripheral
<i>K08353</i>	Other	5.83E-05	peripheral
<i>K01241</i>	high-metabotype-depleted	5.98E-05	peripheral
<i>K03417</i>	high-metabotype-depleted	6.06E-05	peripheral
<i>K01008</i>	high-metabotype-depleted	6.20E-05	peripheral
<i>K09471</i>	Other	6.29E-05	peripheral

<i>K02775</i>	high-metabotype-depleted	6.51E-05	peripheral
<i>K02774</i>	high-metabotype-depleted	6.51E-05	peripheral
<i>K02773</i>	high-metabotype-depleted	6.51E-05	peripheral
<i>K00253</i>	high-metabotype-depleted	6.52E-05	peripheral
<i>K01817</i>	high-metabotype-depleted	6.53E-05	peripheral
<i>K00042</i>	high-metabotype-depleted	6.53E-05	peripheral
<i>K00691</i>	high-metabotype-depleted	6.64E-05	peripheral
<i>K02439</i>	high-metabotype-depleted	6.72E-05	peripheral
<i>K07246</i>	high-metabotype-associated	6.82E-05	peripheral
<i>K03475</i>	high-metabotype-depleted	6.95E-05	peripheral
<i>K02821</i>	high-metabotype-depleted	6.95E-05	peripheral
<i>K02822</i>	Other	6.95E-05	peripheral
<i>K02594</i>	high-metabotype-depleted	7.12E-05	peripheral
<i>K05351</i>	high-metabotype-depleted	7.15E-05	peripheral
<i>K01857</i>	Other	7.18E-05	peripheral
<i>K02793</i>	high-metabotype-depleted	7.21E-05	peripheral
<i>K02795</i>	high-metabotype-depleted	7.21E-05	peripheral
<i>K02794</i>	high-metabotype-depleted	7.21E-05	peripheral
<i>K02796</i>	high-metabotype-depleted	7.21E-05	peripheral
<i>K00094</i>	high-metabotype-depleted	7.27E-05	peripheral
<i>K00693</i>	high-metabotype-depleted	7.48E-05	peripheral
<i>K01608</i>	Other	7.53E-05	peripheral
<i>K05825</i>	Other	7.58E-05	peripheral

<i>K01800</i>	high-metabotype-depleted	7.70E-05	peripheral
<i>K01520</i>	high-metabotype-depleted	7.82E-05	peripheral
<i>K00957</i>	high-metabotype-depleted	8.08E-05	peripheral
<i>K00956</i>	high-metabotype-depleted	8.08E-05	peripheral
<i>K00958</i>	high-metabotype-enriched	8.08E-05	peripheral
<i>K04098</i>	Other	8.09E-05	peripheral
<i>K09722</i>	high-metabotype-enriched	8.23E-05	peripheral
<i>K01715</i>	high-metabotype-depleted	8.26E-05	peripheral
<i>K01598</i>	high-metabotype-depleted	8.40E-05	peripheral
<i>K01615</i>	high-metabotype-depleted	8.52E-05	peripheral
<i>K00641</i>	high-metabotype-depleted	8.57E-05	peripheral
<i>K03707</i>	high-metabotype-depleted	8.90E-05	peripheral
<i>K00467</i>	Other	9.01E-05	peripheral
<i>K11263</i>	high-metabotype-depleted	9.06E-05	peripheral
<i>K01523</i>	high-metabotype-depleted	9.17E-05	peripheral
<i>K06034</i>	high-metabotype-associated	9.19E-05	peripheral
<i>K13039</i>	high-metabotype-enriched	9.19E-05	peripheral
<i>K00460</i>	Other	9.26E-05	peripheral
<i>K11264</i>	high-metabotype-depleted	9.27E-05	peripheral
<i>K10817</i>	Other	9.27E-05	peripheral
<i>K01609</i>	high-metabotype-depleted	9.47E-05	peripheral
<i>K00451</i>	high-metabotype-enriched	9.49E-05	peripheral
<i>K00639</i>	high-metabotype-depleted	9.53E-05	peripheral

<i>K04516</i>	high-metabotype-depleted	9.57E-05	peripheral
<i>K01850</i>	high-metabotype-depleted	9.57E-05	peripheral
<i>K06209</i>	high-metabotype-depleted	9.57E-05	peripheral
<i>K04092</i>	Other	9.57E-05	peripheral
<i>K04093</i>	Other	9.57E-05	peripheral
<i>K06208</i>	high-metabotype-associated	9.57E-05	peripheral
<i>K00088</i>	high-metabotype-depleted	9.65E-05	peripheral
<i>K06982</i>	Other	9.70E-05	peripheral
<i>K01821</i>	Other	9.73E-05	peripheral
<i>K00651</i>	high-metabotype-depleted	9.81E-05	peripheral
<i>K00938</i>	Other	0.00010267	peripheral
<i>K01785</i>	high-metabotype-depleted	0.00010448	peripheral
<i>K03473</i>	high-metabotype-depleted	0.00011018	peripheral
<i>K10206</i>	high-metabotype-depleted	0.00011088	peripheral
<i>K01591</i>	high-metabotype-depleted	0.0001112	peripheral
<i>K00241</i>	high-metabotype-depleted	0.00011409	peripheral
<i>K00240</i>	high-metabotype-depleted	0.00011409	peripheral
<i>K00246</i>	high-metabotype-depleted	0.00011409	peripheral
<i>K00235</i>	high-metabotype-depleted	0.00011409	peripheral
<i>K00245</i>	high-metabotype-depleted	0.00011409	peripheral
<i>K00239</i>	high-metabotype-depleted	0.00011409	peripheral
<i>K00244</i>	high-metabotype-depleted	0.00011409	peripheral
<i>K00247</i>	Other	0.00011409	peripheral
<i>K00242</i>	Other	0.00011409	peripheral
<i>K00234</i>	Other	0.00011409	peripheral

<i>K01834</i>	high-metabotype-depleted	0.00011417	peripheral
<i>K00943</i>	high-metabotype-depleted	0.00011544	peripheral
<i>K03426</i>	high-metabotype-depleted	0.00011656	peripheral
<i>K01464</i>	high-metabotype-depleted	0.00011881	peripheral
<i>K01457</i>	high-metabotype-depleted	0.00012255	peripheral
<i>K01473</i>	high-metabotype-depleted	0.00012279	peripheral
<i>K01474</i>	high-metabotype-depleted	0.00012279	peripheral
<i>K01847</i>	high-metabotype-depleted	0.00012531	peripheral
<i>K01848</i>	high-metabotype-depleted	0.00012531	peripheral
<i>K01849</i>	Other	0.00012531	peripheral
<i>K01687</i>	high-metabotype-depleted	0.00012546	peripheral
<i>K00453</i>	high-metabotype-depleted	0.00012871	peripheral
<i>K00003</i>	high-metabotype-depleted	0.00013532	peripheral
<i>K01028</i>	high-metabotype-depleted	0.00013536	peripheral
<i>K01029</i>	Other	0.00013536	peripheral
<i>K01027</i>	Other	0.00013536	peripheral
<i>K03021</i>	high-metabotype-depleted	0.0001356	peripheral
<i>K03040</i>	high-metabotype-depleted	0.0001356	peripheral
<i>K03048</i>	high-metabotype-depleted	0.0001356	peripheral
<i>K03046</i>	high-metabotype-depleted	0.0001356	peripheral
<i>K03044</i>	high-metabotype-depleted	0.0001356	peripheral
<i>K03043</i>	high-metabotype-depleted	0.0001356	peripheral
<i>K03010</i>	high-metabotype-depleted	0.0001356	peripheral

<i>K03050</i>	high-metabotype-depleted	0.0001356	peripheral
<i>K03053</i>	high-metabotype-depleted	0.0001356	peripheral
<i>K13797</i>	high-metabotype-depleted	0.0001356	peripheral
<i>K03060</i>	high-metabotype-depleted	0.0001356	peripheral
<i>K03042</i>	Other	0.0001356	peripheral
<i>K03006</i>	Other	0.0001356	peripheral
<i>K02999</i>	Other	0.0001356	peripheral
<i>K03057</i>	Other	0.0001356	peripheral
<i>K03051</i>	Other	0.0001356	peripheral
<i>K03055</i>	Other	0.0001356	peripheral
<i>K13798</i>	Other	0.0001356	peripheral
<i>K03018</i>	high-metabotype-associated	0.0001356	peripheral
<i>K03056</i>	high-metabotype-associated	0.0001356	peripheral
<i>K03045</i>	high-metabotype-associated	0.0001356	peripheral
<i>K03047</i>	high-metabotype-associated	0.0001356	peripheral
<i>K03041</i>	high-metabotype-associated	0.0001356	peripheral
<i>K03049</i>	high-metabotype-enriched	0.0001356	peripheral
<i>K03002</i>	Other	0.0001356	peripheral
<i>K03027</i>	Other	0.0001356	peripheral
<i>K03058</i>	Other	0.0001356	peripheral
<i>K03852</i>	high-metabotype-depleted	0.00013623	peripheral
<i>K01804</i>	high-metabotype-depleted	0.00013664	peripheral
<i>K00532</i>	high-metabotype-depleted	0.00014169	peripheral
<i>K13950</i>	high-metabotype-depleted	0.00014169	peripheral
<i>K01665</i>	high-metabotype-depleted	0.00014169	peripheral
<i>K00533</i>	high-metabotype-depleted	0.00014169	peripheral

<i>K01664</i>	high-metabotype-depleted	0.00014169	peripheral
<i>K06441</i>	Other	0.00014169	peripheral
<i>K00534</i>	Other	0.00014169	peripheral
<i>K10796</i>	high-metabotype-depleted	0.00014213	peripheral
<i>K10795</i>	high-metabotype-depleted	0.00014213	peripheral
<i>K10793</i>	high-metabotype-depleted	0.00014213	peripheral
<i>K10794</i>	Other	0.00014213	peripheral
<i>K01753</i>	high-metabotype-depleted	0.00014281	peripheral
<i>K02787</i>	Other	0.00014294	peripheral
<i>K02788</i>	Other	0.00014294	peripheral
<i>K02786</i>	Other	0.00014294	peripheral
<i>K00101</i>	Other	0.00014388	peripheral
<i>K05993</i>	high-metabotype-depleted	0.00014401	peripheral
<i>K01252</i>	high-metabotype-depleted	0.00014401	peripheral
<i>K00186</i>	high-metabotype-depleted	0.0001449	peripheral
<i>K00187</i>	Other	0.0001449	peripheral
<i>K00188</i>	high-metabotype-associated	0.0001449	peripheral
<i>K01771</i>	Other	0.00014647	peripheral
<i>K02438</i>	high-metabotype-depleted	0.00014689	peripheral
<i>K01236</i>	Other	0.00014689	peripheral
<i>K01491</i>	high-metabotype-depleted	0.00014693	peripheral
<i>K13403</i>	Other	0.00014693	peripheral
<i>K03476</i>	high-metabotype-depleted	0.00014975	peripheral
<i>K00385</i>	high-metabotype-depleted	0.00015059	peripheral
<i>K00381</i>	Other	0.00015059	peripheral
<i>K00380</i>	Other	0.00015059	peripheral
<i>K00364</i>	high-metabotype-depleted	0.00015716	peripheral
<i>K00050</i>	high-metabotype-depleted	0.00015856	peripheral



<i>K00975</i>	high-metabotype-depleted	0.00015998	peripheral
<i>K01955</i>	high-metabotype-depleted	0.00016086	peripheral
<i>K01956</i>	high-metabotype-depleted	0.00016086	peripheral
<i>K01954</i>	high-metabotype-depleted	0.00016086	peripheral
<i>K00077</i>	high-metabotype-depleted	0.00016109	peripheral
<i>K00005</i>	high-metabotype-depleted	0.00016174	peripheral
<i>K12251</i>	high-metabotype-depleted	0.00016288	peripheral
<i>K01478</i>	Other	0.00016447	peripheral
<i>K14446</i>	Other	0.00016731	peripheral
<i>K01493</i>	high-metabotype-depleted	0.00016733	peripheral
<i>K00207</i>	high-metabotype-depleted	0.0001703	peripheral
<i>K00146</i>	high-metabotype-associated	0.00017234	peripheral
<i>K01494</i>	high-metabotype-depleted	0.00017296	peripheral
<i>K00023</i>	high-metabotype-depleted	0.00017311	peripheral
<i>K00705</i>	high-metabotype-depleted	0.00017544	peripheral
<i>K01699</i>	high-metabotype-depleted	0.00017642	peripheral
<i>K13919</i>	Other	0.00017642	peripheral
<i>K13920</i>	Other	0.00017642	peripheral
<i>K01775</i>	high-metabotype-depleted	0.00017944	peripheral
<i>K00599</i>	high-metabotype-depleted	0.0001809	peripheral
<i>K07732</i>	Other	0.00018115	peripheral
<i>K00861</i>	Other	0.00018115	peripheral
<i>K00860</i>	high-metabotype-depleted	0.00018259	peripheral
<i>K03153</i>	Other	0.00018341	peripheral
<i>K00798</i>	high-metabotype-depleted	0.00018927	peripheral

<i>K00102</i>	high-metabotype-depleted	0.00018927	peripheral
<i>K02435</i>	high-metabotype-depleted	0.00018951	peripheral
<i>K02434</i>	high-metabotype-depleted	0.00018951	peripheral
<i>K02433</i>	high-metabotype-depleted	0.00018951	peripheral
<i>K10783</i>	high-metabotype-depleted	0.00019185	peripheral
<i>K01087</i>	Other	0.00019262	peripheral
<i>K00013</i>	high-metabotype-depleted	0.00019271	peripheral
<i>K05915</i>	Other	0.00019308	peripheral
<i>K01845</i>	high-metabotype-depleted	0.00019379	peripheral
<i>K13942</i>	Other	0.00019615	peripheral
<i>K00634</i>	high-metabotype-depleted	0.00019729	peripheral
<i>K01896</i>	Other	0.00019729	peripheral
<i>K09903</i>	high-metabotype-depleted	0.00019889	peripheral
<i>K05343</i>	high-metabotype-depleted	0.00020036	intermediate
<i>K01692</i>	high-metabotype-depleted	0.00020071	intermediate
<i>K00499</i>	high-metabotype-associated	0.00020289	intermediate
<i>K00255</i>	high-metabotype-depleted	0.00020483	intermediate
<i>K07512</i>	Other	0.00020483	intermediate
<i>K04487</i>	high-metabotype-depleted	0.00020498	intermediate
<i>K00024</i>	high-metabotype-depleted	0.00020515	intermediate
<i>K00051</i>	high-metabotype-depleted	0.00020515	intermediate
<i>K00116</i>	high-metabotype-enriched	0.00020515	intermediate
<i>K00025</i>	Other	0.00020515	intermediate
<i>K00026</i>	Other	0.00020515	intermediate
<i>K11381</i>	high-metabotype-depleted	0.00020527	intermediate

<i>K00166</i>	Other	0.00020527	intermediate
<i>K00167</i>	Other	0.00020527	intermediate
<i>K00472</i>	high-metabotype-depleted	0.00020572	intermediate
<i>K00655</i>	high-metabotype-depleted	0.00020602	intermediate
<i>K13509</i>	high-metabotype-depleted	0.00020602	intermediate
<i>K00856</i>	high-metabotype-depleted	0.00021039	intermediate
<i>K01438</i>	high-metabotype-depleted	0.00021304	intermediate
<i>K00899</i>	high-metabotype-depleted	0.00021523	intermediate
<i>K00143</i>	high-metabotype-depleted	0.00021869	intermediate
<i>K01607</i>	high-metabotype-depleted	0.00021954	intermediate
<i>K03081</i>	Other	0.00022225	intermediate
<i>K01578</i>	high-metabotype-depleted	0.00022287	intermediate
<i>K09459</i>	high-metabotype-depleted	0.00022568	intermediate
<i>K01858</i>	high-metabotype-depleted	0.00022644	intermediate
<i>K01750</i>	high-metabotype-depleted	0.00022844	intermediate
<i>K00995</i>	high-metabotype-depleted	0.00022884	intermediate
<i>K00640</i>	high-metabotype-depleted	0.00023171	intermediate
<i>K03815</i>	high-metabotype-depleted	0.00023428	intermediate
<i>K02492</i>	high-metabotype-depleted	0.00023529	intermediate
<i>K00252</i>	Other	0.00023694	intermediate
<i>K01613</i>	high-metabotype-depleted	0.00023794	intermediate
<i>K09018</i>	Other	0.00023998	intermediate
<i>K09024</i>	Other	0.00023998	intermediate
<i>K00151</i>	high-metabotype-depleted	0.00024344	intermediate
<i>K10219</i>	Other	0.00024344	intermediate

<i>K00945</i>	high-metabotype-depleted	0.00024417	intermediate
<i>K13800</i>	Other	0.00024417	intermediate
<i>K00762</i>	high-metabotype-depleted	0.00024478	intermediate
<i>K11755</i>	high-metabotype-depleted	0.00024876	intermediate
<i>K03735</i>	high-metabotype-depleted	0.00025504	intermediate
<i>K03736</i>	high-metabotype-depleted	0.00025504	intermediate
<i>K04019</i>	Other	0.00025504	intermediate
<i>K10527</i>	high-metabotype-depleted	0.00025543	intermediate
<i>K03119</i>	high-metabotype-associated	0.00025585	intermediate
<i>K00931</i>	high-metabotype-depleted	0.00026041	intermediate
<i>K01966</i>	high-metabotype-depleted	0.00026172	intermediate
<i>K01965</i>	Other	0.00026172	intermediate
<i>K02626</i>	high-metabotype-depleted	0.00026237	intermediate
<i>K01585</i>	high-metabotype-depleted	0.00026237	intermediate
<i>K01584</i>	high-metabotype-depleted	0.00026237	intermediate
<i>K01583</i>	Other	0.00026237	intermediate
<i>K00610</i>	high-metabotype-depleted	0.00026719	intermediate
<i>K00609</i>	high-metabotype-depleted	0.00026719	intermediate
<i>K02500</i>	high-metabotype-depleted	0.00027576	intermediate
<i>K02501</i>	high-metabotype-depleted	0.00027576	intermediate
<i>K01663</i>	high-metabotype-associated	0.00027576	intermediate
<i>K00226</i>	high-metabotype-depleted	0.00028187	intermediate
<i>K05713</i>	Other	0.00028252	intermediate
<i>K07031</i>	high-metabotype-depleted	0.00028355	intermediate

<i>K00030</i>	high-metabotype-depleted	0.00028381	intermediate
<i>K03430</i>	Other	0.0002839	intermediate
<i>K09469</i>	high-metabotype-associated	0.0002839	intermediate
<i>K01745</i>	high-metabotype-depleted	0.00028449	intermediate
<i>K01183</i>	high-metabotype-depleted	0.00028461	intermediate
<i>K13381</i>	high-metabotype-associated	0.00028461	intermediate
<i>K01689</i>	high-metabotype-depleted	0.000285	intermediate
<i>K00818</i>	high-metabotype-depleted	0.00028502	intermediate
<i>K00854</i>	high-metabotype-depleted	0.00028611	intermediate
<i>K00547</i>	high-metabotype-depleted	0.00029142	intermediate
<i>K01679</i>	high-metabotype-depleted	0.00029149	intermediate
<i>K01676</i>	high-metabotype-depleted	0.00029149	intermediate
<i>K01678</i>	high-metabotype-depleted	0.00029149	intermediate
<i>K01677</i>	high-metabotype-depleted	0.00029149	intermediate
<i>K03379</i>	high-metabotype-depleted	0.00029342	intermediate
<i>K09021</i>	high-metabotype-depleted	0.00029533	intermediate
<i>K03462</i>	high-metabotype-depleted	0.00029648	intermediate
<i>K01897</i>	high-metabotype-depleted	0.00029986	intermediate
<i>K00955</i>	high-metabotype-depleted	0.00030498	intermediate
<i>K13811</i>	high-metabotype-enriched	0.00030498	intermediate
<i>K01706</i>	high-metabotype-depleted	0.0003118	intermediate
<i>K01617</i>	Other	0.00032071	intermediate
<i>K00549</i>	high-metabotype-depleted	0.00032118	intermediate

<i>K01917</i>	high-metabotype-depleted	0.00033709	intermediate
<i>K01460</i>	high-metabotype-depleted	0.00033709	intermediate
<i>K01597</i>	Other	0.00033922	intermediate
<i>K01814</i>	high-metabotype-depleted	0.00034177	intermediate
<i>K03184</i>	high-metabotype-associated	0.00034493	intermediate
<i>K06134</i>	Other	0.00034493	intermediate
<i>K00763</i>	high-metabotype-depleted	0.00035282	intermediate
<i>K04020</i>	Other	0.00035312	intermediate
<i>K01823</i>	high-metabotype-associated	0.00035481	intermediate
<i>K00928</i>	high-metabotype-depleted	0.00035483	intermediate
<i>K01115</i>	Other	0.00035662	intermediate
<i>K13922</i>	Other	0.00035751	intermediate
<i>K00883</i>	high-metabotype-depleted	0.00035865	intermediate
<i>K02560</i>	high-metabotype-depleted	0.00035966	intermediate
<i>K01673</i>	high-metabotype-depleted	0.00036085	intermediate
<i>K01674</i>	Other	0.00036085	intermediate
<i>K00951</i>	high-metabotype-depleted	0.00036186	intermediate
<i>K07816</i>	high-metabotype-depleted	0.00036186	intermediate
<i>K00757</i>	high-metabotype-depleted	0.00036817	intermediate
<i>K00248</i>	high-metabotype-depleted	0.00036872	intermediate
<i>K09478</i>	Other	0.00036872	intermediate
<i>K03335</i>	high-metabotype-depleted	0.0003737	intermediate
<i>K13763</i>	Other	0.00037462	intermediate
<i>K14084</i>	high-metabotype-depleted	0.0003783	intermediate
<i>K14083</i>	high-metabotype-associated	0.0003783	intermediate
<i>K14082</i>	Other	0.0003783	intermediate

<i>K03526</i>	high-metabotype-depleted	0.00037858	intermediate
<i>K09020</i>	Other	0.00037939	intermediate
<i>K00756</i>	high-metabotype-depleted	0.00037942	intermediate
<i>K00016</i>	high-metabotype-depleted	0.00037947	intermediate
<i>K11261</i>	Other	0.00038719	intermediate
<i>K00202</i>	Other	0.00038719	intermediate
<i>K11260</i>	Other	0.00038719	intermediate
<i>K00200</i>	high-metabotype-associated	0.00038719	intermediate
<i>K00203</i>	high-metabotype-associated	0.00038719	intermediate
<i>K00205</i>	high-metabotype-associated	0.00038719	intermediate
<i>K00201</i>	high-metabotype-associated	0.00038719	intermediate
<i>K00204</i>	high-metabotype-associated	0.00038719	intermediate
<i>K01923</i>	high-metabotype-depleted	0.0003876	intermediate
<i>K01728</i>	high-metabotype-depleted	0.00038909	intermediate
<i>K01731</i>	Other	0.00038909	intermediate
<i>K09472</i>	high-metabotype-associated	0.00039059	intermediate
<i>K01776</i>	high-metabotype-depleted	0.00039681	intermediate
<i>K00286</i>	high-metabotype-depleted	0.00040025	intermediate
<i>K00210</i>	high-metabotype-depleted	0.0004052	intermediate
<i>K04517</i>	high-metabotype-depleted	0.0004052	intermediate
<i>K01589</i>	high-metabotype-depleted	0.00041197	intermediate
<i>K00536</i>	Other	0.00041292	intermediate
<i>K02790</i>	high-metabotype-depleted	0.00041846	intermediate
<i>K02791</i>	high-metabotype-depleted	0.00041846	intermediate

<i>K01632</i>	high-metabotype-depleted	0.00041909	intermediate
<i>K00052</i>	high-metabotype-depleted	0.00042582	intermediate
<i>K01620</i>	high-metabotype-depleted	0.00042586	intermediate
<i>K02778</i>	high-metabotype-depleted	0.00043344	intermediate
<i>K02779</i>	high-metabotype-depleted	0.00043344	intermediate
<i>K03078</i>	high-metabotype-associated	0.0004366	intermediate
<i>K05884</i>	high-metabotype-depleted	0.00044206	intermediate
<i>K03394</i>	high-metabotype-depleted	0.0004463	intermediate
<i>K02304</i>	high-metabotype-depleted	0.0004463	intermediate
<i>K01091</i>	high-metabotype-depleted	0.0004467	intermediate
<i>K06132</i>	high-metabotype-depleted	0.0004471	intermediate
<i>K06131</i>	high-metabotype-depleted	0.0004471	intermediate
<i>K13498</i>	high-metabotype-depleted	0.00044764	intermediate
<i>K00432</i>	high-metabotype-depleted	0.00044944	intermediate
<i>K00318</i>	high-metabotype-depleted	0.00045066	intermediate
<i>K11788</i>	Other	0.00045283	intermediate
<i>K01768</i>	high-metabotype-depleted	0.00045429	intermediate
<i>K05873</i>	Other	0.00045429	intermediate
<i>K05851</i>	high-metabotype-associated	0.00045429	intermediate
<i>K11029</i>	Other	0.00045429	intermediate
<i>K05362</i>	high-metabotype-depleted	0.00046408	intermediate
<i>K00925</i>	high-metabotype-depleted	0.00046817	intermediate
<i>K01902</i>	high-metabotype-depleted	0.00047	intermediate



<i>K01903</i>	high-metabotype-depleted	0.00047	intermediate
<i>K01899</i>	Other	0.00047	intermediate
<i>K01900</i>	Other	0.00047	intermediate
<i>K12657</i>	high-metabotype-depleted	0.00047036	intermediate
<i>K03778</i>	high-metabotype-depleted	0.00047181	intermediate
<i>K03777</i>	high-metabotype-depleted	0.00047181	intermediate
<i>K00657</i>	high-metabotype-depleted	0.00048159	intermediate
<i>K00108</i>	high-metabotype-depleted	0.00048287	intermediate
<i>K11440</i>	high-metabotype-depleted	0.00048287	intermediate
<i>K01783</i>	high-metabotype-depleted	0.0004873	intermediate
<i>K02554</i>	Other	0.00049075	intermediate
<i>K00568</i>	high-metabotype-depleted	0.00049168	intermediate
<i>K00449</i>	high-metabotype-depleted	0.00049431	intermediate
<i>K00448</i>	Other	0.00049431	intermediate
<i>K00606</i>	high-metabotype-depleted	0.0004987	intermediate
<i>K05364</i>	high-metabotype-depleted	0.00050302	intermediate
<i>K00293</i>	Other	0.00050452	intermediate
<i>K01875</i>	high-metabotype-depleted	0.00050616	intermediate
<i>K01480</i>	high-metabotype-depleted	0.00050887	intermediate
<i>K00078</i>	high-metabotype-depleted	0.00050952	intermediate
<i>K00075</i>	high-metabotype-depleted	0.00050982	intermediate
<i>K00917</i>	Other	0.00051095	intermediate
<i>K11517</i>	high-metabotype-depleted	0.00051289	intermediate
<i>K00104</i>	high-metabotype-depleted	0.00051289	intermediate

<i>K11473</i>	high-metabotype-depleted	0.00051289	intermediate
<i>K11472</i>	Other	0.00051289	intermediate
<i>K01479</i>	high-metabotype-depleted	0.00051379	intermediate
<i>K02536</i>	high-metabotype-depleted	0.00051648	intermediate
<i>K01734</i>	high-metabotype-depleted	0.0005281	intermediate
<i>K01788</i>	high-metabotype-depleted	0.00052884	intermediate
<i>K00991</i>	high-metabotype-depleted	0.000529	intermediate
<i>K01913</i>	high-metabotype-depleted	0.00053081	intermediate
<i>K10213</i>	high-metabotype-associated	0.00053949	intermediate
<i>K00259</i>	high-metabotype-depleted	0.00054203	intermediate
<i>K01592</i>	high-metabotype-depleted	0.00054318	intermediate
<i>K11808</i>	Other	0.00054646	intermediate
<i>K00930</i>	high-metabotype-depleted	0.00054922	intermediate
<i>K06989</i>	high-metabotype-depleted	0.00055189	intermediate
<i>K00008</i>	high-metabotype-depleted	0.00055238	intermediate
<i>K09758</i>	high-metabotype-depleted	0.00055547	intermediate
<i>K00368</i>	Other	0.00055707	intermediate
<i>K00849</i>	high-metabotype-depleted	0.00056058	intermediate
<i>K05823</i>	high-metabotype-depleted	0.00056143	intermediate
<i>K05936</i>	high-metabotype-depleted	0.00056429	intermediate
<i>K00611</i>	high-metabotype-depleted	0.0005662	intermediate
<i>K02232</i>	high-metabotype-depleted	0.00056781	intermediate
<i>K11752</i>	high-metabotype-depleted	0.00056781	intermediate

<i>K00900</i>	high-metabotype-enriched	0.00056781	intermediate
<i>K01498</i>	Other	0.00056781	intermediate
<i>K01659</i>	high-metabotype-depleted	0.00056787	intermediate
<i>K10675</i>	Other	0.00056795	intermediate
<i>K00889</i>	high-metabotype-depleted	0.00056816	intermediate
<i>K01524</i>	high-metabotype-depleted	0.00056816	intermediate
<i>K01514</i>	high-metabotype-depleted	0.00056816	intermediate
<i>K01843</i>	high-metabotype-depleted	0.00056851	intermediate
<i>K03273</i>	high-metabotype-depleted	0.00056851	intermediate
<i>K05363</i>	high-metabotype-depleted	0.00056851	intermediate
<i>K01103</i>	high-metabotype-enriched	0.00056851	intermediate
<i>K01455</i>	Other	0.00056866	intermediate
<i>K01423</i>	high-metabotype-depleted	0.00056886	intermediate
<i>K06013</i>	Other	0.00056886	intermediate
<i>K10220</i>	Other	0.00056886	intermediate
<i>K08693</i>	Other	0.00056921	intermediate
<i>K01759</i>	high-metabotype-depleted	0.00056947	intermediate
<i>K13018</i>	high-metabotype-depleted	0.00056992	intermediate
<i>K05603</i>	Other	0.00057085	intermediate
<i>K01458</i>	high-metabotype-depleted	0.00057156	intermediate
<i>K05822</i>	high-metabotype-associated	0.00057418	intermediate
<i>K03151</i>	high-metabotype-depleted	0.00057564	intermediate
<i>K01639</i>	high-metabotype-depleted	0.00057647	intermediate
<i>K01468</i>	high-metabotype-depleted	0.00057659	intermediate
<i>K11212</i>	high-metabotype-associated	0.00057707	intermediate

<i>K00793</i>	high-metabotype-depleted	0.00057886	intermediate
<i>K00376</i>	high-metabotype-enriched	0.00057887	intermediate
<i>K00604</i>	high-metabotype-depleted	0.00058106	intermediate
<i>K01048</i>	high-metabotype-depleted	0.00058915	intermediate
<i>K01126</i>	high-metabotype-depleted	0.00058985	intermediate
<i>K01079</i>	high-metabotype-depleted	0.00059566	intermediate
<i>K01654</i>	high-metabotype-depleted	0.00060501	intermediate
<i>K05304</i>	high-metabotype-enriched	0.00060501	intermediate
<i>K01187</i>	high-metabotype-depleted	0.00061455	intermediate
<i>K12316</i>	Other	0.00061455	intermediate
<i>K07130</i>	high-metabotype-depleted	0.00061689	intermediate
<i>K00799</i>	Other	0.00062447	intermediate
<i>K01226</i>	high-metabotype-depleted	0.00062478	intermediate
<i>K04518</i>	high-metabotype-depleted	0.00062574	intermediate
<i>K01713</i>	Other	0.00062574	intermediate
<i>K00217</i>	high-metabotype-associated	0.00062701	intermediate
<i>K01556</i>	high-metabotype-associated	0.00063113	intermediate
<i>K01924</i>	high-metabotype-depleted	0.0006324	intermediate
<i>K01682</i>	high-metabotype-depleted	0.00063305	intermediate
<i>K00135</i>	Other	0.00064553	intermediate
<i>K01958</i>	high-metabotype-depleted	0.00065735	intermediate
<i>K01960</i>	high-metabotype-depleted	0.00065735	intermediate
<i>K01959</i>	high-metabotype-depleted	0.00065735	intermediate

<i>K05921</i>	high-metabotype-depleted	0.00065755	intermediate
<i>K10764</i>	high-metabotype-depleted	0.00066414	intermediate
<i>K01733</i>	high-metabotype-depleted	0.00066586	intermediate
<i>K00058</i>	high-metabotype-depleted	0.00066587	intermediate
<i>K08093</i>	high-metabotype-depleted	0.00067533	intermediate
<i>K00430</i>	Other	0.00067583	intermediate
<i>K02783</i>	high-metabotype-depleted	0.00067775	intermediate
<i>K02781</i>	high-metabotype-depleted	0.00067775	intermediate
<i>K02782</i>	high-metabotype-depleted	0.00067775	intermediate
<i>K00952</i>	high-metabotype-depleted	0.00068281	intermediate
<i>K00969</i>	high-metabotype-depleted	0.00068281	intermediate
<i>K13522</i>	Other	0.00068281	intermediate
<i>K00220</i>	Other	0.000683	intermediate
<i>K00109</i>	Other	0.00068834	intermediate
<i>K00826</i>	high-metabotype-depleted	0.00069085	intermediate
<i>K00263</i>	Other	0.00069085	intermediate
<i>K01810</i>	high-metabotype-depleted	0.00069089	intermediate
<i>K06859</i>	high-metabotype-depleted	0.00069089	intermediate
<i>K08097</i>	high-metabotype-associated	0.00069483	intermediate
<i>K00892</i>	high-metabotype-depleted	0.00070238	intermediate
<i>K11781</i>	Other	0.00070467	intermediate
<i>K11780</i>	high-metabotype-associated	0.00070467	intermediate
<i>K01581</i>	high-metabotype-depleted	0.0007072	intermediate
<i>K01040</i>	high-metabotype-depleted	0.00070868	intermediate

<i>K01039</i>	high-metabotype-depleted	0.00070868	intermediate
<i>K01928</i>	high-metabotype-depleted	0.00071116	intermediate
<i>K01489</i>	high-metabotype-depleted	0.00071919	intermediate
<i>K01922</i>	high-metabotype-depleted	0.00072095	intermediate
<i>K01075</i>	Other	0.00072111	intermediate
<i>K01693</i>	high-metabotype-depleted	0.00072365	intermediate
<i>K01819</i>	Other	0.00072674	intermediate
<i>K07173</i>	high-metabotype-depleted	0.00072803	intermediate
<i>K01619</i>	high-metabotype-depleted	0.00073033	intermediate
<i>K01726</i>	high-metabotype-depleted	0.0007463	intermediate
<i>K01841</i>	high-metabotype-depleted	0.00075556	intermediate
<i>K08260</i>	Other	0.00075602	intermediate
<i>K03782</i>	high-metabotype-associated	0.00076074	intermediate
<i>K06133</i>	high-metabotype-depleted	0.00076247	intermediate
<i>K00997</i>	high-metabotype-depleted	0.00076247	intermediate
<i>K00034</i>	high-metabotype-depleted	0.00076828	intermediate
<i>K01433</i>	high-metabotype-depleted	0.00077054	intermediate
<i>K00858</i>	high-metabotype-depleted	0.0007732	intermediate
<i>K00324</i>	high-metabotype-depleted	0.0007732	intermediate
<i>K00325</i>	Other	0.0007732	intermediate
<i>K00322</i>	Other	0.0007732	intermediate
<i>K00323</i>	Other	0.0007732	intermediate
<i>K11175</i>	high-metabotype-depleted	0.00078603	intermediate
<i>K08289</i>	high-metabotype-depleted	0.00078603	intermediate
<i>K00601</i>	Other	0.00078603	intermediate

<i>K05551</i>	high-metabotype-depleted	0.00079068	intermediate
<i>K05552</i>	Other	0.00079068	intermediate
<i>K06215</i>	high-metabotype-depleted	0.00079498	intermediate
<i>K08681</i>	high-metabotype-depleted	0.00079498	intermediate
<i>K03337</i>	high-metabotype-depleted	0.00080433	intermediate
<i>K00672</i>	high-metabotype-associated	0.00081655	intermediate
<i>K00045</i>	high-metabotype-depleted	0.00081947	intermediate
<i>K00619</i>	high-metabotype-depleted	0.00082215	intermediate
<i>K00865</i>	high-metabotype-depleted	0.00082383	intermediate
<i>K01740</i>	high-metabotype-depleted	0.00083694	intermediate
<i>K01736</i>	high-metabotype-depleted	0.00083758	intermediate
<i>K03077</i>	high-metabotype-depleted	0.00084079	intermediate
<i>K01786</i>	high-metabotype-depleted	0.00084079	intermediate
<i>K03080</i>	high-metabotype-associated	0.00084079	intermediate
<i>K01940</i>	high-metabotype-depleted	0.00084371	intermediate
<i>K05349</i>	high-metabotype-depleted	0.0008439	intermediate
<i>K01188</i>	high-metabotype-depleted	0.0008439	intermediate
<i>K05350</i>	Other	0.0008439	intermediate
<i>K02619</i>	high-metabotype-depleted	0.00085224	intermediate
<i>K13020</i>	high-metabotype-depleted	0.00085329	intermediate
<i>K13016</i>	high-metabotype-depleted	0.00085329	intermediate
<i>K09699</i>	Other	0.00085477	intermediate
<i>K00962</i>	high-metabotype-depleted	0.00085601	intermediate

<i>K13954</i>	high-metabotype-depleted	0.00085882	intermediate
<i>K01919</i>	high-metabotype-depleted	0.00085983	intermediate
<i>K11204</i>	Other	0.00085983	intermediate
<i>K03715</i>	high-metabotype-depleted	0.00087051	intermediate
<i>K14333</i>	Other	0.0008716	intermediate
<i>K01232</i>	high-metabotype-depleted	0.00087377	intermediate
<i>K01805</i>	high-metabotype-depleted	0.00087819	intermediate
<i>K02770</i>	high-metabotype-depleted	0.00088325	intermediate
<i>K02769</i>	high-metabotype-depleted	0.00088325	intermediate
<i>K02768</i>	high-metabotype-depleted	0.00088325	intermediate
<i>K01885</i>	high-metabotype-depleted	0.00089055	intermediate
<i>K00769</i>	high-metabotype-depleted	0.00089061	intermediate
<i>K03816</i>	high-metabotype-depleted	0.00089061	intermediate
<i>K06153</i>	high-metabotype-depleted	0.00090729	intermediate
<i>K00122</i>	high-metabotype-depleted	0.00090731	intermediate
<i>K00124</i>	high-metabotype-depleted	0.00090731	intermediate
<i>K00127</i>	high-metabotype-depleted	0.00090731	intermediate
<i>K00123</i>	high-metabotype-depleted	0.00090731	intermediate
<i>K08348</i>	Other	0.00090731	intermediate
<i>K08350</i>	Other	0.00090731	intermediate
<i>K08349</i>	Other	0.00090731	intermediate
<i>K00125</i>	high-metabotype-associated	0.00090731	intermediate
<i>K00126</i>	Other	0.00090731	intermediate
<i>K01658</i>	high-metabotype-depleted	0.00091962	intermediate



<i>K01657</i>	high-metabotype-depleted	0.00091962	intermediate
<i>K14471</i>	Other	0.00093066	intermediate
<i>K14472</i>	Other	0.00093066	intermediate
<i>K00869</i>	high-metabotype-associated	0.00093124	intermediate
<i>K01610</i>	high-metabotype-depleted	0.00093953	intermediate
<i>K01596</i>	high-metabotype-depleted	0.00093953	intermediate
<i>K02302</i>	high-metabotype-depleted	0.00094428	intermediate
<i>K00022</i>	high-metabotype-depleted	0.00094719	intermediate
<i>K00658</i>	high-metabotype-depleted	0.00094926	intermediate
<i>K00258</i>	high-metabotype-associated	0.00094942	intermediate
<i>K00007</i>	Other	0.000952	intermediate
<i>K06445</i>	high-metabotype-depleted	0.00095241	intermediate
<i>K13247</i>	Other	0.00095323	intermediate
<i>K01521</i>	Other	0.00095488	intermediate
<i>K00694</i>	high-metabotype-depleted	0.00095553	intermediate
<i>K00158</i>	Other	0.00095951	intermediate
<i>K03472</i>	high-metabotype-associated	0.00096432	intermediate
<i>K00027</i>	high-metabotype-depleted	0.00096444	intermediate
<i>K00789</i>	high-metabotype-depleted	0.00096808	intermediate
<i>K00625</i>	high-metabotype-depleted	0.0009691	intermediate
<i>K13788</i>	high-metabotype-depleted	0.0009691	intermediate
<i>K02586</i>	high-metabotype-depleted	0.00096999	intermediate
<i>K02591</i>	high-metabotype-depleted	0.00096999	intermediate
<i>K02588</i>	high-metabotype-depleted	0.00096999	intermediate

<i>K01803</i>	high-metabotype-depleted	0.00097036	intermediate
<i>K00302</i>	high-metabotype-depleted	0.00097068	intermediate
<i>K00303</i>	Other	0.00097068	intermediate
<i>K00301</i>	high-metabotype-associated	0.00097068	intermediate
<i>K00314</i>	Other	0.00097068	intermediate
<i>K00886</i>	Other	0.0009731	intermediate
<i>K02535</i>	high-metabotype-depleted	0.00099461	intermediate
<i>K00054</i>	Other	0.00099625	intermediate
<i>K00021</i>	high-metabotype-associated	0.00099625	intermediate
<i>K12112</i>	Other	0.00099674	intermediate
<i>K12111</i>	Other	0.00099674	intermediate
<i>K01694</i>	high-metabotype-depleted	0.0009998	intermediate
<i>K01239</i>	high-metabotype-depleted	0.00100015	intermediate
<i>K01120</i>	high-metabotype-associated	0.00100676	intermediate
<i>K13298</i>	Other	0.00100676	intermediate
<i>K04108</i>	high-metabotype-depleted	0.00101046	intermediate
<i>K01182</i>	high-metabotype-depleted	0.00101251	intermediate
<i>K01089</i>	high-metabotype-depleted	0.0010186	intermediate
<i>K13967</i>	Other	0.00102047	intermediate
<i>K05606</i>	Other	0.00103629	intermediate
<i>K00772</i>	Other	0.00103964	intermediate
<i>K00981</i>	high-metabotype-depleted	0.00103966	intermediate
<i>K00831</i>	high-metabotype-depleted	0.00105027	intermediate
<i>K00319</i>	high-metabotype-associated	0.00105691	intermediate
<i>K12234</i>	high-metabotype-associated	0.00105892	intermediate
<i>K01778</i>	high-metabotype-depleted	0.00107186	intermediate

<i>K01886</i>	high-metabotype-depleted	0.00107586	intermediate
<i>K00526</i>	high-metabotype-depleted	0.00108062	intermediate
<i>K00525</i>	high-metabotype-depleted	0.00108062	intermediate
<i>K00018</i>	high-metabotype-depleted	0.00110198	intermediate
<i>K00015</i>	high-metabotype-depleted	0.00110198	intermediate
<i>K01067</i>	high-metabotype-depleted	0.0011021	intermediate
<i>K00851</i>	high-metabotype-depleted	0.0011091	intermediate
<i>K01012</i>	high-metabotype-depleted	0.00110997	intermediate
<i>K00790</i>	high-metabotype-depleted	0.00111162	intermediate
<i>K00215</i>	high-metabotype-depleted	0.00111185	intermediate
<i>K01431</i>	Other	0.0011166	intermediate
<i>K00006</i>	high-metabotype-depleted	0.00111773	intermediate
<i>K00113</i>	high-metabotype-depleted	0.00111773	intermediate
<i>K00112</i>	high-metabotype-depleted	0.00111773	intermediate
<i>K00111</i>	high-metabotype-depleted	0.00111773	intermediate
<i>K00057</i>	high-metabotype-depleted	0.00111773	intermediate
<i>K03399</i>	Other	0.0011321	intermediate
<i>K03644</i>	high-metabotype-depleted	0.00113491	intermediate
<i>K03801</i>	high-metabotype-depleted	0.00113491	intermediate
<i>K03637</i>	high-metabotype-depleted	0.00113491	intermediate
<i>K03639</i>	high-metabotype-depleted	0.00113491	intermediate
<i>K10815</i>	Other	0.00113526	intermediate
<i>K01034</i>	high-metabotype-depleted	0.0011363	intermediate

<i>K01035</i>	high-metabotype-depleted	0.0011363	intermediate
<i>K01711</i>	high-metabotype-depleted	0.00113631	intermediate
<i>K01790</i>	high-metabotype-depleted	0.00113631	intermediate
<i>K01911</i>	high-metabotype-depleted	0.00113631	intermediate
<i>K03270</i>	high-metabotype-depleted	0.00113631	intermediate
<i>K01904</i>	high-metabotype-depleted	0.00113631	intermediate
<i>K01799</i>	high-metabotype-depleted	0.00113631	intermediate
<i>K12660</i>	high-metabotype-depleted	0.00113631	intermediate
<i>K02301</i>	high-metabotype-depleted	0.00113631	intermediate
<i>K02473</i>	high-metabotype-depleted	0.00113631	intermediate
<i>K07535</i>	Other	0.00113631	intermediate
<i>K00801</i>	Other	0.00113631	intermediate
<i>K03821</i>	Other	0.00113631	intermediate
<i>K01846</i>	high-metabotype-associated	0.00113631	intermediate
<i>K08295</i>	high-metabotype-associated	0.00113631	intermediate
<i>K03894</i>	high-metabotype-associated	0.00113631	intermediate
<i>K06123</i>	high-metabotype-associated	0.00113631	intermediate
<i>K10027</i>	Other	0.00113631	intermediate
<i>K01575</i>	Other	0.00113702	intermediate
<i>K05954</i>	Other	0.00113702	intermediate
<i>K01223</i>	high-metabotype-depleted	0.0011386	intermediate
<i>K01222</i>	high-metabotype-depleted	0.0011386	intermediate
<i>K13017</i>	high-metabotype-depleted	0.00113913	intermediate
<i>K00876</i>	high-metabotype-depleted	0.00114187	intermediate

<i>K00275</i>	high-metabotype-depleted	0.00114741	intermediate
<i>K00868</i>	high-metabotype-depleted	0.00114741	intermediate
<i>K03148</i>	high-metabotype-depleted	0.00115162	intermediate
<i>K01681</i>	high-metabotype-depleted	0.00115396	intermediate
<i>K00884</i>	high-metabotype-associated	0.0011573	intermediate
<i>K00949</i>	high-metabotype-depleted	0.00115737	intermediate
<i>K00457</i>	Other	0.0011621	intermediate
<i>K10217</i>	Other	0.00116651	intermediate
<i>K00208</i>	high-metabotype-depleted	0.00116691	intermediate
<i>K01070</i>	high-metabotype-depleted	0.00117345	intermediate
<i>K05711</i>	Other	0.00118299	intermediate
<i>K06001</i>	high-metabotype-depleted	0.00118907	intermediate
<i>K01695</i>	high-metabotype-depleted	0.00118907	intermediate
<i>K01696</i>	high-metabotype-depleted	0.00118907	intermediate
<i>K07106</i>	high-metabotype-depleted	0.00119113	intermediate
<i>K04110</i>	Other	0.00119243	intermediate
<i>K00692</i>	high-metabotype-associated	0.00119267	intermediate
<i>K05308</i>	Other	0.0011947	intermediate
<i>K01631</i>	Other	0.00121357	intermediate
<i>K01129</i>	high-metabotype-depleted	0.0012137	intermediate
<i>K00765</i>	high-metabotype-depleted	0.00121835	intermediate
<i>K02502</i>	Other	0.00121835	intermediate
<i>K00674</i>	high-metabotype-depleted	0.00121948	intermediate
<i>K03079</i>	high-metabotype-depleted	0.00122248	intermediate
<i>K03082</i>	high-metabotype-depleted	0.00122248	intermediate

<i>K07550</i>	high-metabotype-associated	0.00122665	intermediate
<i>K12252</i>	high-metabotype-associated	0.00122992	intermediate
<i>K00767</i>	high-metabotype-depleted	0.00124839	intermediate
<i>K01807</i>	high-metabotype-depleted	0.00124911	intermediate
<i>K09474</i>	Other	0.00126175	intermediate
<i>K01078</i>	high-metabotype-depleted	0.00126175	intermediate
<i>K01093</i>	Other	0.00126175	intermediate
<i>K03788</i>	Other	0.00126175	intermediate
<i>K03525</i>	high-metabotype-depleted	0.00126694	intermediate
<i>K00867</i>	high-metabotype-depleted	0.00126694	intermediate
<i>K09680</i>	Other	0.00126694	intermediate
<i>K01055</i>	high-metabotype-depleted	0.00128439	intermediate
<i>K00527</i>	high-metabotype-depleted	0.00129247	intermediate
<i>K01721</i>	Other	0.00129537	intermediate
<i>K00631</i>	high-metabotype-depleted	0.00130367	intermediate
<i>K08591</i>	high-metabotype-depleted	0.00130367	intermediate
<i>K03621</i>	high-metabotype-depleted	0.00130367	intermediate
<i>K02227</i>	high-metabotype-depleted	0.00132488	intermediate
<i>K01921</i>	high-metabotype-depleted	0.00132859	intermediate
<i>K01032</i>	Other	0.00133771	intermediate
<i>K01031</i>	high-metabotype-enriched	0.00133771	intermediate
<i>K03527</i>	high-metabotype-depleted	0.00133871	intermediate
<i>K00117</i>	high-metabotype-associated	0.00134421	intermediate
<i>K03186</i>	high-metabotype-depleted	0.00134448	intermediate

<i>K03182</i>	high-metabotype-depleted	0.00134448	intermediate
<i>K01730</i>	high-metabotype-depleted	0.00134775	intermediate
<i>K11180</i>	high-metabotype-depleted	0.00135842	intermediate
<i>K11181</i>	Other	0.00135842	intermediate
<i>K01582</i>	high-metabotype-depleted	0.00136038	intermediate
<i>K02614</i>	high-metabotype-depleted	0.00141688	intermediate
<i>K00048</i>	high-metabotype-depleted	0.00142582	intermediate
<i>K00480</i>	high-metabotype-associated	0.00142638	intermediate
<i>K01612</i>	high-metabotype-depleted	0.00142829	intermediate
<i>K00825</i>	high-metabotype-depleted	0.0014338	intermediate
<i>K00806</i>	high-metabotype-depleted	0.00143799	intermediate
<i>K00539</i>	Other	0.00144136	intermediate
<i>K00848</i>	high-metabotype-depleted	0.0014476	intermediate
<i>K11262</i>	Other	0.00144951	intermediate
<i>K00857</i>	high-metabotype-depleted	0.00145987	intermediate
<i>K12743</i>	Other	0.00146048	intermediate
<i>K01735</i>	high-metabotype-depleted	0.00146744	intermediate
<i>K11541</i>	high-metabotype-depleted	0.00148468	intermediate
<i>K00560</i>	high-metabotype-depleted	0.00151634	intermediate
<i>K00294</i>	high-metabotype-depleted	0.00152415	intermediate
<i>K12304</i>	Other	0.00153481	intermediate
<i>K01190</i>	high-metabotype-depleted	0.00155197	intermediate
<i>K00901</i>	high-metabotype-depleted	0.00155304	intermediate
<i>K01428</i>	high-metabotype-depleted	0.00155489	intermediate

<i>K01429</i>	high-metabotype-depleted	0.00155489	intermediate
<i>K14048</i>	Other	0.00155489	intermediate
<i>K01430</i>	Other	0.00155489	intermediate
<i>K01427</i>	Other	0.00155489	intermediate
<i>K03688</i>	high-metabotype-depleted	0.00156672	intermediate
<i>K00281</i>	high-metabotype-depleted	0.00158514	intermediate
<i>K00282</i>	high-metabotype-depleted	0.00158514	intermediate
<i>K00283</i>	high-metabotype-depleted	0.00158514	intermediate
<i>K00748</i>	high-metabotype-depleted	0.00161117	intermediate
<i>K00794</i>	high-metabotype-depleted	0.00163598	intermediate
<i>K01195</i>	high-metabotype-depleted	0.00165541	intermediate
<i>K01791</i>	high-metabotype-depleted	0.0016575	intermediate
<i>K01092</i>	high-metabotype-depleted	0.00165789	intermediate
<i>K00278</i>	high-metabotype-depleted	0.00165849	intermediate
<i>K03381</i>	high-metabotype-depleted	0.0016606	intermediate
<i>K00788</i>	high-metabotype-depleted	0.00168415	intermediate
<i>K00041</i>	high-metabotype-depleted	0.00169203	intermediate
<i>K00040</i>	Other	0.00169203	intermediate
<i>K03147</i>	high-metabotype-depleted	0.0016946	intermediate
<i>K01961</i>	high-metabotype-depleted	0.00170183	intermediate
<i>K02160</i>	high-metabotype-depleted	0.00170183	intermediate
<i>K01962</i>	high-metabotype-depleted	0.00170183	intermediate
<i>K01963</i>	high-metabotype-depleted	0.00170183	intermediate



<i>K00688</i>	high-metabotype-depleted	0.00170357	intermediate
<i>K00888</i>	Other	0.00170377	intermediate
<i>K00009</i>	high-metabotype-depleted	0.00170553	intermediate
<i>K00131</i>	high-metabotype-depleted	0.00170824	intermediate
<i>K02079</i>	high-metabotype-depleted	0.00170869	intermediate
<i>K01818</i>	high-metabotype-depleted	0.00170975	intermediate
<i>K00939</i>	high-metabotype-depleted	0.00171222	intermediate
<i>K01697</i>	Other	0.00172198	intermediate
<i>K00697</i>	high-metabotype-depleted	0.001728	intermediate
<i>K08687</i>	high-metabotype-associated	0.00173067	intermediate
<i>K08094</i>	high-metabotype-depleted	0.0017331	intermediate
<i>K02509</i>	Other	0.00178265	intermediate
<i>K01439</i>	high-metabotype-depleted	0.00178418	intermediate
<i>K03416</i>	Other	0.00179586	intermediate
<i>K00055</i>	Other	0.00179859	intermediate
<i>K01918</i>	high-metabotype-depleted	0.00180611	intermediate
<i>K08682</i>	high-metabotype-depleted	0.00180857	intermediate
<i>K14154</i>	high-metabotype-associated	0.00181452	intermediate
<i>K00847</i>	high-metabotype-depleted	0.00182242	intermediate
<i>K09251</i>	high-metabotype-depleted	0.00183149	intermediate
<i>K12256</i>	Other	0.00183149	intermediate
<i>K00880</i>	high-metabotype-depleted	0.00183822	intermediate
<i>K02858</i>	high-metabotype-depleted	0.00185841	intermediate
<i>K12409</i>	Other	0.00187821	intermediate
<i>K00190</i>	Other	0.00188076	intermediate

<i>K01839</i>	high-metabotype-depleted	0.0018825	intermediate
<i>K01178</i>	Other	0.00189003	intermediate
<i>K03338</i>	high-metabotype-depleted	0.00190336	intermediate
<i>K01815</i>	high-metabotype-depleted	0.00191432	intermediate
<i>K08302</i>	high-metabotype-depleted	0.00194433	intermediate
<i>K01635</i>	Other	0.00194433	intermediate
<i>K00394</i>	high-metabotype-depleted	0.00195735	intermediate
<i>K00395</i>	Other	0.00195735	intermediate
<i>K00754</i>	high-metabotype-depleted	0.00200128	intermediate
<i>K01218</i>	high-metabotype-depleted	0.00200199	intermediate
<i>K01485</i>	high-metabotype-depleted	0.00200542	intermediate
<i>K00855</i>	high-metabotype-associated	0.00200688	intermediate
<i>K00390</i>	high-metabotype-depleted	0.00202102	intermediate
<i>K01512</i>	high-metabotype-depleted	0.00202319	intermediate
<i>K01270</i>	high-metabotype-depleted	0.00203213	intermediate
<i>K01256</i>	high-metabotype-depleted	0.00203213	intermediate
<i>K01255</i>	high-metabotype-depleted	0.00203213	intermediate
<i>K07751</i>	high-metabotype-associated	0.00203213	intermediate
<i>K11140</i>	Other	0.00203213	intermediate
<i>K01068</i>	Other	0.00206963	intermediate
<i>K12506</i>	high-metabotype-depleted	0.00207224	intermediate
<i>K00677</i>	high-metabotype-depleted	0.00208591	intermediate
<i>K00446</i>	high-metabotype-associated	0.00209512	intermediate
<i>K01194</i>	Other	0.0020994	intermediate
<i>K09023</i>	Other	0.00211616	intermediate

<i>K00517</i>	high-metabotype-associated	0.00211962	intermediate
<i>K01714</i>	high-metabotype-depleted	0.00220089	intermediate
<i>K00164</i>	high-metabotype-depleted	0.00220097	intermediate
<i>K00758</i>	high-metabotype-depleted	0.00220741	intermediate
<i>K00823</i>	Other	0.00222097	intermediate
<i>K03150</i>	high-metabotype-depleted	0.00222557	intermediate
<i>K01621</i>	high-metabotype-depleted	0.00224343	intermediate
<i>K00579</i>	high-metabotype-depleted	0.00225199	intermediate
<i>K00577</i>	Other	0.00225199	intermediate
<i>K00580</i>	Other	0.00225199	intermediate
<i>K00578</i>	high-metabotype-associated	0.00225199	intermediate
<i>K00582</i>	high-metabotype-associated	0.00225199	intermediate
<i>K00581</i>	high-metabotype-associated	0.00225199	intermediate
<i>K00584</i>	high-metabotype-associated	0.00225199	intermediate
<i>K00583</i>	Other	0.00225199	intermediate
<i>K00284</i>	high-metabotype-depleted	0.00226932	intermediate
<i>K00840</i>	high-metabotype-depleted	0.00226982	intermediate
<i>K00673</i>	high-metabotype-depleted	0.00226988	intermediate
<i>K06447</i>	high-metabotype-depleted	0.00227052	intermediate
<i>K01484</i>	Other	0.00227058	intermediate
<i>K03896</i>	high-metabotype-depleted	0.00227122	intermediate
<i>K06920</i>	high-metabotype-depleted	0.00227122	intermediate
<i>K00721</i>	high-metabotype-depleted	0.00227122	intermediate
<i>K01710</i>	high-metabotype-depleted	0.00227122	intermediate

<i>K02291</i>	high-metabotype-depleted	0.00227122	intermediate
<i>K07536</i>	high-metabotype-depleted	0.00227122	intermediate
<i>K00979</i>	high-metabotype-depleted	0.00227122	intermediate
<i>K02549</i>	high-metabotype-depleted	0.00227122	intermediate
<i>K05526</i>	high-metabotype-depleted	0.00227122	intermediate
<i>K01709</i>	high-metabotype-depleted	0.00227122	intermediate
<i>K01772</i>	Other	0.00227122	intermediate
<i>K10011</i>	Other	0.00227193	intermediate
<i>K00436</i>	high-metabotype-depleted	0.00227404	intermediate
<i>K00879</i>	high-metabotype-depleted	0.00227826	intermediate
<i>K14153</i>	high-metabotype-depleted	0.00227991	intermediate
<i>K06162</i>	high-metabotype-depleted	0.00228107	intermediate
<i>K00260</i>	high-metabotype-depleted	0.00229578	intermediate
<i>K00262</i>	high-metabotype-depleted	0.00229578	intermediate
<i>K00261</i>	Other	0.00229578	intermediate
<i>K11540</i>	high-metabotype-depleted	0.00229731	intermediate
<i>K03517</i>	high-metabotype-depleted	0.00230761	intermediate
<i>K05714</i>	Other	0.00232438	intermediate
<i>K01007</i>	high-metabotype-depleted	0.00232532	intermediate
<i>K01006</i>	high-metabotype-depleted	0.00232532	intermediate
<i>K03342</i>	high-metabotype-associated	0.00237473	intermediate
<i>K01808</i>	high-metabotype-depleted	0.00238543	intermediate
<i>K01925</i>	high-metabotype-depleted	0.0023887	intermediate

<i>K01668</i>	high-metabotype-depleted	0.00239651	intermediate
<i>K01690</i>	Other	0.0024007	intermediate
<i>K01637</i>	high-metabotype-associated	0.00241241	intermediate
<i>K01243</i>	high-metabotype-depleted	0.00242435	intermediate
<i>K01920</i>	high-metabotype-depleted	0.00244254	intermediate
<i>K00001</i>	high-metabotype-depleted	0.00244978	intermediate
<i>K13953</i>	high-metabotype-depleted	0.00244978	intermediate
<i>K11754</i>	high-metabotype-depleted	0.00247073	intermediate
<i>K01930</i>	Other	0.00247073	intermediate
<i>K01476</i>	high-metabotype-depleted	0.00247768	intermediate
<i>K00156</i>	high-metabotype-depleted	0.00248673	intermediate
<i>K00177</i>	high-metabotype-depleted	0.00248919	intermediate
<i>K00176</i>	high-metabotype-depleted	0.00248919	intermediate
<i>K00175</i>	high-metabotype-depleted	0.00248919	intermediate
<i>K00174</i>	high-metabotype-depleted	0.00248919	intermediate
<i>K00845</i>	high-metabotype-depleted	0.00252348	intermediate
<i>K00853</i>	high-metabotype-depleted	0.00254621	intermediate
<i>K03272</i>	high-metabotype-depleted	0.00255583	intermediate
<i>K00796</i>	high-metabotype-depleted	0.0025569	intermediate
<i>K13941</i>	high-metabotype-depleted	0.0025569	intermediate
<i>K00766</i>	high-metabotype-depleted	0.00256841	intermediate
<i>K00759</i>	high-metabotype-depleted	0.002577	intermediate
<i>K00912</i>	high-metabotype-depleted	0.00259583	intermediate

<i>K00481</i>	Other	0.00259767	intermediate
<i>K00654</i>	Other	0.00260103	intermediate
<i>K00265</i>	high-metabotype-depleted	0.00260349	intermediate
<i>K00266</i>	high-metabotype-depleted	0.00260349	intermediate
<i>K00264</i>	high-metabotype-depleted	0.00260349	intermediate
<i>K01630</i>	Other	0.0026041	intermediate
<i>K01572</i>	high-metabotype-depleted	0.00260486	intermediate
<i>K01571</i>	high-metabotype-depleted	0.00260486	intermediate
<i>K01573</i>	high-metabotype-depleted	0.00260486	intermediate
<i>K00864</i>	high-metabotype-depleted	0.00260844	intermediate
<i>K01633</i>	high-metabotype-depleted	0.00262567	intermediate
<i>K13940</i>	high-metabotype-depleted	0.00262567	intermediate
<i>K01213</i>	high-metabotype-depleted	0.00262777	intermediate
<i>K00010</i>	high-metabotype-depleted	0.00263066	intermediate
<i>K01647</i>	high-metabotype-depleted	0.00264205	intermediate
<i>K01646</i>	high-metabotype-depleted	0.00264205	intermediate
<i>K01643</i>	high-metabotype-depleted	0.00264205	intermediate
<i>K01644</i>	high-metabotype-depleted	0.00264205	intermediate
<i>K02361</i>	high-metabotype-depleted	0.00264505	intermediate
<i>K02552</i>	Other	0.00264505	intermediate
<i>K00366</i>	high-metabotype-depleted	0.00267454	intermediate
<i>K00363</i>	high-metabotype-depleted	0.00267454	intermediate
<i>K03385</i>	high-metabotype-depleted	0.00267454	intermediate
<i>K00362</i>	Other	0.00267454	intermediate

<i>K11258</i>	high-metabotype-depleted	0.00267856	intermediate
<i>K01653</i>	high-metabotype-depleted	0.00267856	intermediate
<i>K01652</i>	high-metabotype-depleted	0.00267856	intermediate
<i>K01139</i>	Other	0.00268171	intermediate
<i>K00033</i>	high-metabotype-depleted	0.00268686	intermediate
<i>K07514</i>	Other	0.0027072	intermediate
<i>K03331</i>	high-metabotype-enriched	0.00273098	intermediate
<i>K00455</i>	high-metabotype-associated	0.00275136	intermediate
<i>K01686</i>	high-metabotype-depleted	0.0027539	intermediate
<i>K01685</i>	high-metabotype-depleted	0.0027539	intermediate
<i>K01586</i>	high-metabotype-depleted	0.00275435	intermediate
<i>K00690</i>	high-metabotype-depleted	0.00275591	intermediate
<i>K01755</i>	high-metabotype-depleted	0.00275836	intermediate
<i>K01758</i>	high-metabotype-depleted	0.00275934	intermediate
<i>K00680</i>	high-metabotype-depleted	0.00276516	intermediate
<i>K01137</i>	high-metabotype-depleted	0.0027653	intermediate
<i>K00148</i>	Other	0.0027828	intermediate
<i>K13829</i>	high-metabotype-associated	0.0028373	intermediate
<i>K13015</i>	high-metabotype-depleted	0.00284255	intermediate
<i>K01628</i>	high-metabotype-depleted	0.00284606	intermediate
<i>K06163</i>	Other	0.00284958	intermediate
<i>K00797</i>	high-metabotype-depleted	0.00285764	intermediate
<i>K01579</i>	high-metabotype-depleted	0.00286242	intermediate

<i>K00761</i>	high-metabotype-depleted	0.00289069	intermediate
<i>K02825</i>	high-metabotype-depleted	0.00289069	intermediate
<i>K01938</i>	high-metabotype-depleted	0.00289696	intermediate
<i>K01054</i>	high-metabotype-depleted	0.00291339	central
<i>K02203</i>	Other	0.00291491	central
<i>K00702</i>	high-metabotype-depleted	0.00294627	central
<i>K03149</i>	high-metabotype-depleted	0.0029474	central
<i>K01948</i>	high-metabotype-depleted	0.0029544	central
<i>K00926</i>	high-metabotype-depleted	0.0029544	central
<i>K00966</i>	high-metabotype-depleted	0.00296627	central
<i>K00971</i>	high-metabotype-depleted	0.00296627	central
<i>K00384</i>	high-metabotype-depleted	0.00297349	central
<i>K03474</i>	high-metabotype-depleted	0.00298405	central
<i>K01777</i>	high-metabotype-depleted	0.00298415	central
<i>K13830</i>	Other	0.00303206	central
<i>K00036</i>	high-metabotype-depleted	0.00303936	central
<i>K00065</i>	high-metabotype-depleted	0.00304677	central
<i>K05939</i>	high-metabotype-depleted	0.00305725	central
<i>K14578</i>	Other	0.00306217	central
<i>K09473</i>	Other	0.00306353	central
<i>K01555</i>	high-metabotype-depleted	0.00306403	central
<i>K03465</i>	high-metabotype-depleted	0.00309597	central
<i>K01929</i>	high-metabotype-depleted	0.0031022	central



<i>K01895</i>	high-metabotype-depleted	0.00312564	central
<i>K01905</i>	high-metabotype-associated	0.00312564	central
<i>K04781</i>	high-metabotype-associated	0.00312579	central
<i>K00274</i>	high-metabotype-depleted	0.00320178	central
<i>K14152</i>	high-metabotype-associated	0.00321247	central
<i>K03783</i>	high-metabotype-depleted	0.00321895	central
<i>K03784</i>	high-metabotype-depleted	0.00321895	central
<i>K05306</i>	Other	0.00322054	central
<i>K01196</i>	Other	0.00322387	central
<i>K01066</i>	high-metabotype-depleted	0.00326518	central
<i>K01251</i>	high-metabotype-depleted	0.003285	central
<i>K09011</i>	high-metabotype-depleted	0.00333266	central
<i>K02523</i>	high-metabotype-depleted	0.00334012	central
<i>K03524</i>	high-metabotype-depleted	0.00336309	central
<i>K03851</i>	high-metabotype-associated	0.00338408	central
<i>K00230</i>	high-metabotype-depleted	0.00339629	central
<i>K00231</i>	Other	0.00339629	central
<i>K00276</i>	Other	0.00340397	central
<i>K01739</i>	Other	0.00340426	central
<i>K00973</i>	high-metabotype-depleted	0.00340473	central
<i>K01497</i>	high-metabotype-depleted	0.00340473	central
<i>K10026</i>	high-metabotype-depleted	0.00340473	central
<i>K02224</i>	high-metabotype-depleted	0.00340473	central
<i>K08680</i>	high-metabotype-depleted	0.00340473	central

<i>K00978</i>	Other	0.00340473	central
<i>K03897</i>	Other	0.00340473	central
<i>K06167</i>	high-metabotype-depleted	0.00341738	central
<i>K01640</i>	high-metabotype-depleted	0.0034266	central
<i>K01193</i>	high-metabotype-depleted	0.00347429	central
<i>K00822</i>	high-metabotype-depleted	0.00348743	central
<i>K11717</i>	high-metabotype-depleted	0.00350754	central
<i>K00029</i>	high-metabotype-depleted	0.00350801	central
<i>K00028</i>	Other	0.00350801	central
<i>K10218</i>	Other	0.00354819	central
<i>K08660</i>	high-metabotype-depleted	0.00355634	central
<i>K00832</i>	high-metabotype-depleted	0.00356943	central
<i>K00681</i>	high-metabotype-depleted	0.00362737	central
<i>K00795</i>	high-metabotype-depleted	0.00367338	central
<i>K01655</i>	high-metabotype-depleted	0.0036742	central
<i>K01026</i>	high-metabotype-depleted	0.00369603	central
<i>K00764</i>	high-metabotype-depleted	0.00370256	central
<i>K01061</i>	high-metabotype-depleted	0.00374045	central
<i>K01939</i>	high-metabotype-depleted	0.00375783	central
<i>K00492</i>	high-metabotype-associated	0.00378824	central
<i>K00648</i>	high-metabotype-depleted	0.00381001	central
<i>K02437</i>	high-metabotype-depleted	0.00381526	central
<i>K00288</i>	high-metabotype-depleted	0.0038256	central

<i>K01077</i>	high-metabotype-depleted	0.00385906	central
<i>K01113</i>	high-metabotype-depleted	0.00385906	central
<i>K01782</i>	Other	0.00388978	central
<i>K01825</i>	high-metabotype-associated	0.00388978	central
<i>K01812</i>	high-metabotype-depleted	0.00390952	central
<i>K00627</i>	high-metabotype-depleted	0.00392784	central
<i>K12524</i>	high-metabotype-depleted	0.00395109	central
<i>K12525</i>	Other	0.00395109	central
<i>K05774</i>	high-metabotype-depleted	0.00398449	central
<i>K05344</i>	high-metabotype-depleted	0.00399779	central
<i>K01085</i>	Other	0.00399779	central
<i>K01649</i>	high-metabotype-depleted	0.00402178	central
<i>K01426</i>	high-metabotype-depleted	0.00402539	central
<i>K11121</i>	Other	0.00408033	central
<i>K00155</i>	high-metabotype-depleted	0.00409535	central
<i>K01915</i>	high-metabotype-depleted	0.00416016	central
<i>K00605</i>	high-metabotype-depleted	0.00416241	central
<i>K00942</i>	high-metabotype-depleted	0.00417481	central
<i>K13998</i>	Other	0.00417602	central
<i>K01629</i>	high-metabotype-depleted	0.00426003	central
<i>K00940</i>	high-metabotype-depleted	0.00427271	central
<i>K02564</i>	high-metabotype-depleted	0.00429296	central
<i>K00817</i>	high-metabotype-depleted	0.00430096	central
<i>K01738</i>	high-metabotype-depleted	0.00440359	central

<i>K12339</i>	high-metabotype-depleted	0.00440359	central
<i>K01809</i>	high-metabotype-depleted	0.00448319	central
<i>K02495</i>	high-metabotype-depleted	0.00452276	central
<i>K00228</i>	Other	0.00452276	central
<i>K02551</i>	high-metabotype-depleted	0.00453682	central
<i>K01737</i>	high-metabotype-depleted	0.00453682	central
<i>K06042</i>	high-metabotype-depleted	0.00453752	central
<i>K03271</i>	high-metabotype-depleted	0.00453788	central
<i>K02080</i>	high-metabotype-depleted	0.0045537	central
<i>K01058</i>	high-metabotype-depleted	0.00455914	central
<i>K00103</i>	high-metabotype-associated	0.00458637	central
<i>K03519</i>	high-metabotype-depleted	0.00464875	central
<i>K03518</i>	high-metabotype-depleted	0.00464875	central
<i>K03520</i>	high-metabotype-depleted	0.00464875	central
<i>K00198</i>	high-metabotype-depleted	0.00464875	central
<i>K00196</i>	Other	0.00464875	central
<i>K14187</i>	high-metabotype-depleted	0.00467073	central
<i>K00099</i>	high-metabotype-depleted	0.00469363	central
<i>K03384</i>	high-metabotype-associated	0.00474347	central
<i>K00548</i>	high-metabotype-depleted	0.00476349	central
<i>K01787</i>	high-metabotype-depleted	0.00478787	central
<i>K00963</i>	high-metabotype-depleted	0.00480817	central
<i>K01912</i>	high-metabotype-depleted	0.00481492	central

<i>K01744</i>	high-metabotype-depleted	0.00483924	central
<i>K00859</i>	high-metabotype-depleted	0.00494455	central
<i>K10977</i>	high-metabotype-enriched	0.00499419	central
<i>K02777</i>	high-metabotype-depleted	0.00500503	central
<i>K09470</i>	Other	0.00509778	central
<i>K02231</i>	high-metabotype-depleted	0.00510287	central
<i>K14155</i>	high-metabotype-depleted	0.00513218	central
<i>K01760</i>	high-metabotype-depleted	0.00513218	central
<i>K01425</i>	high-metabotype-depleted	0.00518353	central
<i>K02510</i>	high-metabotype-depleted	0.00523287	central
<i>K01114</i>	high-metabotype-depleted	0.00524658	central
<i>K01638</i>	Other	0.005276	central
<i>K12972</i>	Other	0.0052856	central
<i>K00049</i>	Other	0.0052856	central
<i>K13789</i>	high-metabotype-depleted	0.00537469	central
<i>K13787</i>	Other	0.00537469	central
<i>K01495</i>	high-metabotype-depleted	0.00541199	central
<i>K09007</i>	high-metabotype-depleted	0.00541199	central
<i>K00965</i>	high-metabotype-depleted	0.00541754	central
<i>K09698</i>	high-metabotype-depleted	0.00543149	central
<i>K04021</i>	high-metabotype-depleted	0.00550746	central
<i>K05368</i>	high-metabotype-depleted	0.00564712	central
<i>K00299</i>	Other	0.00564712	central
<i>K00595</i>	high-metabotype-depleted	0.00566048	central

<i>K00012</i>	high-metabotype-depleted	0.00566751	central
<i>K00652</i>	high-metabotype-depleted	0.00569649	central
<i>K03183</i>	high-metabotype-depleted	0.00579238	central
<i>K13519</i>	Other	0.00580075	central
<i>K00249</i>	high-metabotype-depleted	0.00581037	central
<i>K14450</i>	Other	0.00584263	central
<i>K00141</i>	Other	0.00592903	central
<i>K03738</i>	high-metabotype-depleted	0.00593055	central
<i>K01595</i>	high-metabotype-depleted	0.00604355	central
<i>K01062</i>	high-metabotype-depleted	0.00607347	central
<i>K00383</i>	high-metabotype-depleted	0.00610751	central
<i>K01752</i>	high-metabotype-depleted	0.00611188	central
<i>K14170</i>	high-metabotype-depleted	0.00614716	central
<i>K07250</i>	high-metabotype-depleted	0.00615098	central
<i>K01081</i>	high-metabotype-depleted	0.0061697	central
<i>K08722</i>	high-metabotype-depleted	0.0061697	central
<i>K03787</i>	high-metabotype-depleted	0.0061697	central
<i>K08723</i>	high-metabotype-depleted	0.0061697	central
<i>K11751</i>	Other	0.0061697	central
<i>K01483</i>	high-metabotype-depleted	0.00624922	central
<i>K03737</i>	high-metabotype-depleted	0.00629242	central
<i>K01501</i>	high-metabotype-depleted	0.00637599	central
<i>K00162</i>	high-metabotype-depleted	0.0063804	central

<i>K00161</i>	high-metabotype-depleted	0.0063804	central
<i>K00163</i>	high-metabotype-depleted	0.0063804	central
<i>K00760</i>	high-metabotype-depleted	0.00643837	central
<i>K00273</i>	Other	0.00646929	central
<i>K00613</i>	high-metabotype-depleted	0.00649727	central
<i>K00821</i>	high-metabotype-depleted	0.00655291	central
<i>K03856</i>	high-metabotype-depleted	0.00675233	central
<i>K01626</i>	high-metabotype-depleted	0.00675233	central
<i>K02318</i>	Other	0.00676442	central
<i>K02233</i>	high-metabotype-depleted	0.00679996	central
<i>K11753</i>	high-metabotype-depleted	0.00682708	central
<i>K00320</i>	high-metabotype-associated	0.0068471	central
<i>K02548</i>	high-metabotype-depleted	0.00691592	central
<i>K00068</i>	high-metabotype-depleted	0.0069177	central
<i>K00132</i>	high-metabotype-depleted	0.00693557	central
<i>K04073</i>	Other	0.00693557	central
<i>K00948</i>	high-metabotype-depleted	0.00704215	central
<i>K03339</i>	Other	0.00704924	central
<i>K01046</i>	high-metabotype-depleted	0.0071999	central
<i>K02563</i>	high-metabotype-depleted	0.00722883	central
<i>K00998</i>	high-metabotype-depleted	0.0072623	central
<i>K00918</i>	Other	0.00731371	central
<i>K01593</i>	high-metabotype-enriched	0.00734986	central
<i>K00946</i>	high-metabotype-depleted	0.00737503	central

<i>K00031</i>	high-metabotype-depleted	0.00737758	central
<i>K00603</i>	high-metabotype-depleted	0.00740237	central
<i>K13821</i>	Other	0.00741901	central
<i>K01756</i>	high-metabotype-depleted	0.00746128	central
<i>K02527</i>	high-metabotype-depleted	0.00759936	central
<i>K01443</i>	high-metabotype-depleted	0.00760708	central
<i>K00850</i>	high-metabotype-depleted	0.00770122	central
<i>K12309</i>	Other	0.00779262	central
<i>K13990</i>	high-metabotype-depleted	0.00779717	central
<i>K13421</i>	Other	0.00780277	central
<i>K01641</i>	Other	0.00787449	central
<i>K01623</i>	high-metabotype-depleted	0.00789328	central
<i>K02226</i>	high-metabotype-depleted	0.00792608	central
<i>K00626</i>	high-metabotype-depleted	0.00792885	central
<i>K01601</i>	high-metabotype-depleted	0.00803579	central
<i>K02372</i>	high-metabotype-depleted	0.00805742	central
<i>K00169</i>	high-metabotype-depleted	0.00812372	central
<i>K00170</i>	high-metabotype-depleted	0.00812372	central
<i>K00172</i>	high-metabotype-depleted	0.00812372	central
<i>K00171</i>	high-metabotype-depleted	0.00812372	central
<i>K01840</i>	high-metabotype-depleted	0.00817984	central
<i>K01719</i>	high-metabotype-depleted	0.00823702	central
<i>K11787</i>	high-metabotype-depleted	0.00823743	central



<i>K00616</i>	high-metabotype-depleted	0.00840804	central
<i>K13497</i>	Other	0.00858134	central
<i>K01624</i>	high-metabotype-depleted	0.00872603	central
<i>K11645</i>	Other	0.00872603	central
<i>K07407</i>	high-metabotype-depleted	0.00878416	central
<i>K07406</i>	high-metabotype-depleted	0.00878416	central
<i>K01189</i>	Other	0.00878416	central
<i>K05597</i>	Other	0.00896878	central
<i>K13831</i>	Other	0.00897011	central
<i>K02517</i>	high-metabotype-depleted	0.00900541	central
<i>K00140</i>	high-metabotype-depleted	0.00900657	central
<i>K05895</i>	Other	0.00905185	central
<i>K00768</i>	high-metabotype-depleted	0.00905255	central
<i>K02428</i>	high-metabotype-depleted	0.00963308	central
<i>K01754</i>	high-metabotype-depleted	0.00974366	central
<i>K00121</i>	high-metabotype-depleted	0.00992738	central
<i>K13038</i>	high-metabotype-depleted	0.00993105	central
<i>K02188</i>	high-metabotype-depleted	0.01017621	central
<i>K04719</i>	Other	0.01017761	central
<i>K12373</i>	high-metabotype-depleted	0.01046929	central
<i>K14157</i>	Other	0.01062354	central
<i>K01000</i>	high-metabotype-depleted	0.01065265	central
<i>K01580</i>	high-metabotype-depleted	0.01079419	central
<i>K03181</i>	Other	0.01082856	central
<i>K13812</i>	high-metabotype-associated	0.010849	central
<i>K14138</i>	high-metabotype-depleted	0.01111507	central

<i>K00814</i>	Other	0.01115534	central
<i>K01599</i>	high-metabotype-depleted	0.01129986	central
<i>K01557</i>	Other	0.0113538	central
<i>K00824</i>	high-metabotype-depleted	0.01136646	central
<i>K07508</i>	Other	0.01180782	central
<i>K13541</i>	high-metabotype-depleted	0.01185361	central
<i>K01053</i>	high-metabotype-associated	0.01199475	central
<i>K00812</i>	high-metabotype-depleted	0.01203587	central
<i>K00811</i>	high-metabotype-depleted	0.01203587	central
<i>K14454</i>	high-metabotype-depleted	0.01203587	central
<i>K00813</i>	high-metabotype-depleted	0.01203587	central
<i>K11358</i>	high-metabotype-depleted	0.01203587	central
<i>K14455</i>	Other	0.01203587	central
<i>K00620</i>	high-metabotype-depleted	0.01206227	central
<i>K00874</i>	high-metabotype-depleted	0.01210147	central
<i>K04042</i>	high-metabotype-depleted	0.01234616	central
<i>K01835</i>	high-metabotype-depleted	0.01240474	central
<i>K00197</i>	high-metabotype-depleted	0.01253785	central
<i>K00194</i>	high-metabotype-depleted	0.01253785	central
<i>K07248</i>	Other	0.01262279	central
<i>K01011</i>	high-metabotype-depleted	0.01294532	central
<i>K00602</i>	high-metabotype-depleted	0.01296137	central
<i>K01492</i>	high-metabotype-depleted	0.01296137	central
<i>K04072</i>	high-metabotype-depleted	0.01319138	central

<i>K03431</i>	high-metabotype-depleted	0.01321643	central
<i>K03179</i>	high-metabotype-depleted	0.01363899	central
<i>K00100</i>	high-metabotype-depleted	0.01404164	central
<i>K05710</i>	Other	0.01408908	central
<i>K00529</i>	high-metabotype-depleted	0.01522539	central
<i>K13540</i>	high-metabotype-depleted	0.01622673	central
<i>K00149</i>	Other	0.016745	central
<i>K00656</i>	high-metabotype-depleted	0.01709293	central
<i>K00129</i>	high-metabotype-depleted	0.01781928	central
<i>K11533</i>	Other	0.01813591	central
<i>K00665</i>	Other	0.01821316	central
<i>K14260</i>	high-metabotype-depleted	0.01847745	central
<i>K00600</i>	high-metabotype-depleted	0.01954724	central
<i>K00632</i>	high-metabotype-depleted	0.02018719	central
<i>K00820</i>	high-metabotype-depleted	0.02096003	central
<i>K01666</i>	high-metabotype-depleted	0.02116003	central
<i>K13799</i>	high-metabotype-associated	0.02174299	central
<i>K00615</i>	high-metabotype-depleted	0.02201963	central
<i>K01622</i>	high-metabotype-depleted	0.02239779	central
<i>K10760</i>	Other	0.02451667	central
<i>K13810</i>	Other	0.02682393	central
<i>K00382</i>	high-metabotype-depleted	0.02709466	central
<i>K13542</i>	high-metabotype-depleted	0.02853149	central
<i>K13853</i>	Other	0.02984132	central
<i>K00830</i>	Other	0.03058833	central

<i>K00002</i>	high-metabotype-depleted	0.03225697	central
<i>K00844</i>	high-metabotype-depleted	0.03388589	central
<i>K01662</i>	high-metabotype-depleted	0.03431382	central
<i>K00128</i>	high-metabotype-depleted	0.03761891	central
<i>K14085</i>	Other	0.03791198	central
<i>K01749</i>	high-metabotype-depleted	0.03893425	central
<i>K01698</i>	high-metabotype-depleted	0.04002135	central
<i>K00643</i>	high-metabotype-associated	0.04195093	central
<i>K01513</i>	high-metabotype-depleted	0.0427719	central
<i>K01625</i>	high-metabotype-depleted	0.04960732	central
<i>K00011</i>	Other	0.05170442	central
<i>K00873</i>	high-metabotype-depleted	0.10409304	central

Table S3. Compound-specific mass spectrometer Multiple reaction monitoring settings

	<b>Retention time (min)</b>	<b>Precursor ion (m/z)</b>	<b>Product ion (m/z)</b>	<b>Product ion (m/z)</b>
<b>Hydroxycamptothecin-d5</b>	1.94	587.3	167.2	167.2
<b>SN-38</b>	2.141	393	349	293
<b>SN-38G</b>	1.738	569	393	349

Table S4. Variance in triplicate injections of SN-38 and SN-38G per sample

<i>Sample</i>	<i>SN38 (SD) (n = 3)</i>	<i>SN38G (SD) (n = 3)</i>
A	0.003026549	0.829667036
B	0.026210685	0.261309038
C	0.01	1.434428542
D	0.005773503	0.531716318
E	0.002554082	0.887269127
F	0.047604237	0.296118377
G	0.00668431	0.505880147
H	0.025466056	0.003026549
I	0.066109228	0.003026549
J	3.840810763	0.003026549
K	0.289087224	1.48280292
L	0.030989245	0.003026549
M	0.013501111	0.003026549
N	0.033882493	0.003026549
O	0.043321473	0.003026549
P	0.010128343	0.003026549
Q	0.093771638	0.003026549
R	0.084994235	0.003026549
S	*	*
T	2.287552275	0.003026549

\* 1 time-point

## Supplementary References

1. Wallace, B. D. *et al.* Alleviating cancer drug toxicity by inhibiting a bacterial enzyme. *Science* **330**, 831–5 (2010).
2. Segata, N. *et al.* Metagenomic microbial community profiling using unique clade-specific marker genes. *Nat. Methods* **9**, 811–4 (2012).
3. Parks, D. H., Tyson, G. W., Hugenholtz, P. & Beiko, R. G. STAMP: statistical analysis of taxonomic and functional profiles. *Bioinformatics* **30**, 3123–4 (2014).
4. Feng, Q. *et al.* Gut microbiome development along the colorectal adenoma–carcinoma sequence. *Nat. Commun.* **6**, 6528 (2015).