

**TABLE S2**

UniProt acc. no.	Functional description	Taxonomic description*
F7KMI9	Bile acid 7 $\alpha$ dehydratase	<sup>U</sup> <i>Lachnospiraceae</i> bacterium 5_1_57FAA
A0A1C5W919		<sup>U</sup> <i>Ruminococcus</i> sp.
A0A0K9NDZ1		<i>Dorea</i> sp. D27
A0A3D1VEZ9	Nuclear transport factor 2	<sup>U</sup> <i>Clostridiales</i> bacterium UBA11811
A0A3R5Y295	family protein	<i>Clostridium</i> sp. AF15-17LB
A0A395YCM0		<i>Dorea</i> sp. AM58-8
UPI000E527D25		<i>Peptoclostridium</i> sp. AF21-18
UPI000471FD15		<sup>U</sup> <i>Clostridiales</i> bacterium VE202-26
UPI0008379CD3		<i>Clostridium</i> sp. Marseille-P2538
UPI00048D1F9B		<i>Proteocatella sphenisci</i> DSM 23131
R5AU51	Uncharacterized protein	<sup>U</sup> <i>Firmicutes</i> bacterium CAG:103

\* <sup>U</sup>, uncultured