

DATA TYPE	BIOPRPOEJCT	ACCESSION	NO. READS
Human gut metatranscriptomics	PRJNA354235	SRR6038200	53999202
Human gut metatranscriptomics	PRJNA354235	SRR6038205	10583862
Human gut metatranscriptomics	PRJNA354235	SRR6038250	32555998
Human gut metatranscriptomics	PRJNA354235	SRR6038264	11343188
Human gut metatranscriptomics	PRJNA354235	SRR6038349	2347600
Human gut metatranscriptomics	PRJNA354235	SRR6038429	26532234
Human gut metatranscriptomics	PRJNA354235	SRR6038472	53814756
Human gut metatranscriptomics	PRJNA354235	SRR6038359	56244250
Mouse cecal metatranscriptomics	PRJNA445875	SRR6904614	58278596
Mouse cecal metatranscriptomics	PRJNA445875	SRR6904615	62005814
Mouse cecal metatranscriptomics	PRJNA445875	SRR6904616	58553182
Mouse cecal metatranscriptomics	PRJNA445875	SRR6904617	57362426

HUMAN FECAL SAMPLES	METATRANSCRIPTOMIC AMINO ACID SEQUENCE	Bilophila 3_1_6 % ID	Bilophila _4_1_30 % ID	Bilophila_ ATCC_49260 % ID
TMA methyl- transferase	MQAGAERALNRLMTALAGASVLF GQGMLETGLTFDIPTLLVDDEIIDY V	100%	100%	100%
TMA methyl- transferase	FGEGIFTHDLETGERRSTVKQDA VDILRVVDSLNIHIYNRAIGPQDV PSESASMHNAEVAFCYTSKPMHL VSGSPFQTKKMIKMAEIAAGGKE ELKRRPRTAFNHTTISPLRISHEA CENAMIVAEAGLPNHILVMVQQG ATSPISYAGSVAVHNADFLAFNTL MQCVNRG	100%	100%	100%
PyIC	EAELRAYIPEGFDAEGWVLESYC PGPSFSLEICGTPGNYRIFQVTDL LMDEAFD	98%	100%	100%
Pyl synthetase N-term	WRMTDEDSAVYGETSDFVDKNG MELASSALGPHPLDAAWGIMEN WVGIGF	100%	100%	100%
PyID	AGHLGFEADVLPADVPGFQLAKS GGFDLFIWADDDTYLAENILGTGTV GENGRATGRGFATALIRMAARKR LDKRALVLGAGPVGCAGAETLAL AGYE	100%	100%	100%

MOUSE CECAL SAMPLES	METATRANSCRIPTOMIC AMINO ACID SEQUENCE	Bilophila 3_1_6 % ID	Bilophila _4_1_30 % ID	Bilophila_ ATCC_49260 % ID
TMA methyl- transferase	YVGEENFEERCPVTFNTCPISPLK LTADVCEVIMTAARNGATVNVLS MGMAGGSTPVNLAGALVVHNCE ALAGLVLAQTTRRGAKFIYGSST AMDRLYGAAVVGTPELAVLNAGV AAMARYYKLPSSWAAGGOGDSKC GDAQSGHEKTLTGLLPMLAGANII YGLGMLEMGMTISYSQLLMDAEM AEMMLFSMDGIVVNDETLSVDVIK EVGPSDFLAHMNTFENMYIQSKP KLIDRLTRDRWNEAGHLDMESRA LIAAKELLATWEPEPLPEEACARV RAVLNAAERDYGVPESLE	100%	100%	99%
TMA methyl- transferase	QCVNRGNPTLYGASACVMDMKK GLSLVAPEVFVLNAAMARMSKY YNIPSYIAGGOTDSICNDVQAGAE RALNRLMTALAGASVLFQGMLE TGLTFDIPTLLVDDEIIDYVLRMLA GFKVDATTLSTDLIKEVGPFGTYL AEMNTFEHLG	99%	99%	99%
Pyl synthetase C-term	AGIEGWRMTDEDSAVYGETSDFV DKNGMELASSALGPHPLDAAWGI MENWVGIGFGLERLTMAATGEST MAKTGRSLSYLHGIRLRI	100%	99%	100%
PyIB	WYACYQETHNRDLFTRLRLEQDY DRRKRTRLEAAGCGLLAEDGLLT GVGESAEDLADSILDMAREPLDQ VRAMSYVPHESTFPSTAGDTLEE RRAHELLAIAAMRLVMEDRLIPAS LDVDGLEGLAMRLKAGANVVTSI VPSGCGLAGVASKDLDIENQRRS VAAVVRQLGVGLPEPALPGEYRA WVEQRRRGEER	99%	99%	99%

MOUSE CECAL SAMPLES	METATRANSCRIPTOMIC AMINO ACID SEQUENCE	Bilophila 3_1_6 % ID	Bilophila _4_1_30 % ID	Bilophila_ ATCC_49260 % ID
PyIC	GDRKFLEGGGRMRVTIVGGGLQ GVELCWLARKAGWGTLVDERP APPALRLADVFAQCDVTKLGGSG VLTR	100%	98%	100%
PyIC	REMEAALLNLAEMLRHLGLMDLE VIQAPEGMRVLEIDARFPSQTPTA VWLSTGVNLAEHLAACFFPYAPG SGLGAPRFARYEHLVCKDGGLHF LGEHIMGQFGPLEPVNGFCGADE ALVGGSL	99%	98%	100%
PyID	GENGRATGRGFATALIRMAARKR LDKRALVLGAGPVCAGAETLAL AGYEVFLCDMDGEKARAACGAL SGCTPCTPDDL SGLPLFECLLDA APTNDFFP	99%	98%	100%
PyI synthetase N-term	PLPNLPLPLPTSSFPSTLKSEIAMS ETPTTRPAPKQRTYRKNQFLFALI GKMKLWPSRKGILHGIRTMEIAG DH	100%	100%	100%