

VIOME

V I O M E

NICHOLAS PERRY'S RESULTS

# V I O M E

**Dear Nicholas Perry,**

The information on this report is for educational and informational use only. The information is not intended to be used by the customer for any diagnostic purpose and is not a substitute for professional medical advice. You should always seek the advice of your physician or other healthcare providers with any questions you may have regarding diagnosis, cure, treatment, mitigation, or prevention of any disease or other medical condition or impairment or the status of your health.



**Jim Fuller**

Technical Director

A handwritten signature in black ink, appearing to read "Jill", written in a cursive style.

**Test Name:** Gut Intelligence Test  
**Authorized Order Person:** Nicholas Perry  
**Customer Name:** Nicholas Perry  
**DOB:** 05/01/1987  
**Gender:** Male  
**Customer Id:** 510dfe4f  
**Sample Source:** Fecal  
**Date Collected:** 02/22/2022  
**Date Received:** 02/28/2022  
**Date Issued:** 03/10/2022  
**Sample ID:** 1AAA489AD461

**Test Name:** Human Gene Expression Test  
**Authorized Order Person:** Nicholas Perry  
**Customer Name:** Nicholas Perry  
**DOB:** 05/01/1987  
**Gender:** Male  
**Customer Id:** 510dfe4f  
**Sample Source:** Blood  
**Date Collected:** 02/23/2022  
**Date Received:** 03/01/2022  
**Date Issued:** 03/10/2022  
**Sample ID:** 2FEC461



**Test Name:** Gut Intelligence Test, Human Gene Expression Test  
**Customer Name:** Nicholas Perry  
**DOB:** 05/01/1987

# Meet your probiotic microbes

These are microbes that are found in commercially available probiotic products that are also active in your sample. If there are no organisms listed, no probiotics were identified in your sample.

Bifidobacterium animalis subsp. lactis
<div><div>P</div>Probiotic</div>
Bifidobacterium longum subsp. infantis
<div><div>P</div>Probiotic</div>
Lactobacillus fermentum
<div><div>P</div>Probiotic</div>



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# My Active Microbes

Acetivibrio ethanolignens strain ACET-33324
<div>B</div> Bacterium
Acinetobacter
<div>B</div> Bacterium
Actinobaculum sp. oral taxon 183 str. F0552
<div>B</div> Bacterium
Actinomyces georgiae DSM 6843
<div>B</div> Bacterium
Actinomyces graevenitzii F0530
<div>B</div> Bacterium
Actinomyces massiliensis F0489
<div>B</div> Bacterium
Actinomyces odontolyticus
<div>B</div> Bacterium
Actinomyces sp. HPA0247
<div>B</div> Bacterium
Actinomyces sp. ICM39
<div>B</div> Bacterium
Actinomyces sp. ICM47
<div>B</div> Bacterium
Actinomyces sp. ICM58
<div>B</div> Bacterium
Actinomyces sp. S6-Spd3
<div>B</div> Bacterium



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Actinomyces sp. oral taxon 178 str. F0338

**B** Bacterium

Actinomyces sp. oral taxon 877 str. F0543

**B** Bacterium

Adlercreutzia equolifaciens DSM 19450

**B** Bacterium

Alistipes finegoldii DSM 17242

**B** Bacterium

Alistipes ihumii AP11

**B** Bacterium

Alistipes obesi

**B** Bacterium

Alistipes onderdonkii WAL 8169 = DSM 19147

**B** Bacterium

Alistipes putredinis DSM 17216

**B** Bacterium

Alistipes senegalensis JC50

**B** Bacterium

Alistipes shahii WAL 8301

**B** Bacterium

Alistipes sp. AL-1

**B** Bacterium

Alistipes sp. HGB5

**B** Bacterium

Alistipes timonensis JC136

**B** Bacterium



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Anaerofustis stercorihominis

**B** Bacterium

Anaerostipes hadrus strain BPB5

**B** Bacterium

Anaerotruncus colihominis

**B** Bacterium

Anaerotruncus rubiinfantis

**B** Bacterium

Angelakisella massiliensis strain Marseille-P3217

**B** Bacterium

Atopobium sp. BS2

**B** Bacterium

Atopobium sp. ICM42b

**B** Bacterium

Bacillus siamensis strain SRCM100169

**B** Bacterium

Bacteroides acidifaciens JCM 10556

**B** Bacterium

Bacteroides caccae

**B** Bacterium

Bacteroides caecimuris strain I48

**B** Bacterium

Bacteroides cellulosilyticus strain WH2

**B** Bacterium

Bacteroides clarus

**B** Bacterium



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Bacteroides coprocola

**B** Bacterium

Bacteroides dorei CL03T12C01

**B** Bacterium

Bacteroides eggerthii 1\_2\_48FAA

**B** Bacterium

Bacteroides faecis

**B** Bacterium

Bacteroides finegoldii

**B** Bacterium

Bacteroides fluxus

**B** Bacterium

Bacteroides fragilis 638R

**B** Bacterium

Bacteroides fragilis str. 3-F-2 #6

**B** Bacterium

Bacteroides gallinarum DSM 18171 = JCM 13658

**B** Bacterium

Bacteroides helcogenes P 36-108

**B** Bacterium

Bacteroides heparinolyticus

**B** Bacterium

Bacteroides intestinalis

**B** Bacterium

Bacteroides massiliensis dnLKV3

**B** Bacterium





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Bacteroides mediterraneensis strain Marseille-P2644
<div>B</div> Bacterium
Bacteroides ovatus V975
<div>B</div> Bacterium
Bacteroides ovatus strain ATCC
<div>B</div> Bacterium
Bacteroides salyersiae
<div>B</div> Bacterium
Bacteroides sp. 14(A)
<div>B</div> Bacterium
Bacteroides sp. 1_1_30
<div>B</div> Bacterium
Bacteroides sp. 1_1_6
<div>B</div> Bacterium
Bacteroides sp. 2_1_22
<div>B</div> Bacterium
Bacteroides sp. 2_1_33B
<div>B</div> Bacterium
Bacteroides sp. 2_2_4
<div>B</div> Bacterium
Bacteroides sp. 3_1_13
<div>B</div> Bacterium
Bacteroides sp. 3_1_19
<div>B</div> Bacterium
Bacteroides sp. 3_1_23
<div>B</div> Bacterium



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Bacteroides sp. 3\_1\_33FAA

**B** Bacterium

Bacteroides sp. 3\_1\_40A

**B** Bacterium

Bacteroides sp. 4\_1\_36

**B** Bacterium

Bacteroides sp. 4\_3\_47FAA

**B** Bacterium

Bacteroides sp. 9\_1\_42FAA

**B** Bacterium

Bacteroides sp. D2

**B** Bacterium

Bacteroides sp. D20

**B** Bacterium

Bacteroides sp. D22

**B** Bacterium

Bacteroides sp. HMSC067B03

**B** Bacterium

Bacteroides sp. HMSC068A09

**B** Bacterium

Bacteroides sp. HMSC073E02

**B** Bacterium

Bacteroides sp. Marseille-P2653

**B** Bacterium

Bacteroides sp. Marseille-P3166 sp. Marseille-P3166

**B** Bacterium



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Bacteroides stercoris ATCC 43183
<b>B</b> Bacterium
Bacteroides stercoris CC31F
<b>B</b> Bacterium
Bacteroides thetaiotaomicron VPI-5482
<b>B</b> Bacterium
Bacteroides thetaiotaomicron strain 7330
<b>B</b> Bacterium
Bacteroides timonensis AP1
<b>B</b> Bacterium
Bacteroides uniformis
<b>B</b> Bacterium
Bacteroides vulgatus ATCC 8482
<b>B</b> Bacterium
Bacteroides xylanisolvens
<b>B</b> Bacterium
Bifidobacterium adolescentis strain 22L
<b>B</b> Bacterium
Bifidobacterium adolescentis strain BBMN23
<b>B</b> Bacterium
Bifidobacterium animalis subsp. lactis
<b>B</b> Bacterium <b>P</b> Probiotic
Bifidobacterium longum NCC2705
<b>B</b> Bacterium
Bifidobacterium longum isolate Bifido_01
<b>B</b> Bacterium



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Bifidobacterium longum isolate Bifido_09
<div>B Bacterium</div>
Bifidobacterium longum strain 379
<div>B Bacterium</div>
Bifidobacterium longum strain BG7
<div>B Bacterium</div>
Bifidobacterium longum subsp. infantis
<div>B Bacterium P Probiotic</div>
Bifidobacterium longum subsp. infantis 157F
<div>B Bacterium</div>
Bifidobacterium longum subsp. infantis strain CECT
<div>B Bacterium</div>
Bifidobacterium longum subsp. longum
<div>B Bacterium</div>
Bifidobacterium longum subsp. longum 17-1B
<div>B Bacterium</div>
Bifidobacterium longum subsp. longum 2-2B
<div>B Bacterium</div>
Bifidobacterium longum subsp. longum 7-1B
<div>B Bacterium</div>
Bifidobacterium longum subsp. longum 72B
<div>B Bacterium</div>
Bifidobacterium longum subsp. longum ATCC 55813
<div>B Bacterium</div>
Bifidobacterium longum subsp. longum BBMN68
<div>B Bacterium</div>



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Bifidobacterium longum subsp. longum F8

**B** Bacterium

Bifidobacterium longum subsp. longum GT15

**B** Bacterium

Bifidobacterium longum subsp. longum JCM 1217

**B** Bacterium

Bifidobacterium longum subsp. longum KACC 91563

**B** Bacterium

Bifidobacterium longum subsp. longum strain AH1206

**B** Bacterium

Bifidobacterium longum subsp. longum strain LMG

**B** Bacterium

Bifidobacterium longum subsp. longum strain LO-K29a

**B** Bacterium

Bifidobacterium longum subsp. longum strain MC-42

**B** Bacterium

Bifidobacterium longum subsp. suis strain BSM11-5

**B** Bacterium

Bifidobacterium sp. 12\_1\_47BFAA

**B** Bacterium

Bilophila sp. 4\_1\_30

**B** Bacterium

Bilophila wadsworthia 3\_1\_6

**B** Bacterium

Bilophila wadsworthia ATCC 49260

**B** Bacterium



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Bittarella massiliensis strain GD6

**B** Bacterium

Blautia hydrogenotrophica DSM 10507

**B** Bacterium

Blautia hydrogenotrophica strain 2789STDY5608857

**B** Bacterium

Blautia massiliensis sp. GD8

**B** Bacterium

Blautia obeum ATCC 29174

**B** Bacterium

Blautia obeum strain 2789STDY5608837

**B** Bacterium

Blautia obeum strain 2789STDY5608838

**B** Bacterium

Blautia obeum strain 2789STDY5834861

**B** Bacterium

Blautia obeum strain 2789STDY5834921

**B** Bacterium

Blautia obeum strain 2789STDY5834957

**B** Bacterium

Blautia sp. KLE 1732

**B** Bacterium

Blautia sp. Marseille-P2398

**B** Bacterium

Blautia sp. Marseille-P3087 sp. Marseille-P3087

**B** Bacterium



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Blautia sp. Marseille-P3201T strain Marseille-P3201

**B** Bacterium

Blautia sp. N6H1-15

**B** Bacterium

Blautia wexlerae

**B** Bacterium

Brettanomyces bruxellensis

**E** Eukaryote

Bulleidia extructa W1219

**B** Bacterium

Butyricicoccus desmolans ATCC 43058

**B** Bacterium

Butyricimonas virosa

**B** Bacterium

Candidatus Dorea massiliensis AP6

**B** Bacterium

Catenibacterium mitsuokai

**B** Bacterium

Christensenella minuta

**B** Bacterium

Clostridia bacterium UC5.1-1D1

**B** Bacterium

Clostridia bacterium UC5.1-1E11

**B** Bacterium

Clostridia bacterium UC5.1-2F7

**B** Bacterium



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Clostridia bacterium UC5.1-2H11
<b>B</b> Bacterium
Clostridiaceae bacterium MS3
<b>B</b> Bacterium
Clostridiales bacterium
<b>B</b> Bacterium
Clostridiales bacterium 1_7_47FAA
<b>B</b> Bacterium
Clostridiales bacterium KLE1615
<b>B</b> Bacterium
Clostridiales bacterium VE202-03
<b>B</b> Bacterium
Clostridiales bacterium VE202-07
<b>B</b> Bacterium
Clostridiales bacterium VE202-13
<b>B</b> Bacterium
Clostridiales bacterium VE202-14
<b>B</b> Bacterium
Clostridiales bacterium VE202-15
<b>B</b> Bacterium
Clostridiales bacterium VE202-21
<b>B</b> Bacterium
Clostridiales bacterium VE202-26
<b>B</b> Bacterium
Clostridiales bacterium VE202-27
<b>B</b> Bacterium





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Clostridium bornimense strain M2/40T

**B** Bacterium

Clostridium butyricum strain JKY6D1

**B** Bacterium

Clostridium butyricum strain KNU-L09

**B** Bacterium

Clostridium butyricum strain TOA

**B** Bacterium

Clostridium celatum DSM 1785

**B** Bacterium

Clostridium disporicum strain 2789STDY5608827

**B** Bacterium

Clostridium disporicum strain 2789STDY5834855

**B** Bacterium

Clostridium disporicum strain 2789STDY5834856

**B** Bacterium

Clostridium phoceensis strain GD3

**B** Bacterium

Clostridium saudiense strain JCC

**B** Bacterium

Clostridium sp. 1\_1\_41A1FAA

**B** Bacterium

Clostridium sp. 7\_2\_43FAA

**B** Bacterium

Clostridium sp. AT4

**B** Bacterium



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Clostridium sp. ATCC BAA-442

**B** Bacterium

Clostridium sp. CL-2

**B** Bacterium

Clostridium sp. DSM 4029

**B** Bacterium

Clostridium sp. FS41

**B** Bacterium

Clostridium sp. HMSC19A10

**B** Bacterium

Clostridium sp. L2-50

**B** Bacterium

Clostridium sp. M62/1

**B** Bacterium

Clostridium sp. Marseille-P3244 sp. Marseille-P3244

**B** Bacterium

Collinsella aerofaciens ATCC 25986

**B** Bacterium

Collinsella sp. 4\_8\_47FAA

**B** Bacterium

Collinsella sp. Marseille-P3296T

**B** Bacterium

Coprobacillus sp. 8\_1\_38FAA

**B** Bacterium

Coprococcus comes

**B** Bacterium



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Coprococcus eutactus ATCC 27759

**B** Bacterium

Coprococcus eutactus strain 2789STDY5608829

**B** Bacterium

Coprococcus eutactus strain 2789STDY5608843

**B** Bacterium

Coprococcus eutactus strain 2789STDY5608888

**B** Bacterium

Corynebacterium matruchotii

**B** Bacterium

Criibacterium bergeronii

**B** Bacterium

Desulfovibrio piger isolate DESPIGER1

**B** Bacterium

Dielma fastidiosa

**B** Bacterium

Dorea formicigenerans 4\_6\_53AFAA

**B** Bacterium

Dorea formicigenerans ATCC 27755

**B** Bacterium

Dorea longicatena AGR2136

**B** Bacterium

Dorea longicatena DSM 13814

**B** Bacterium

Dorea longicatena strain 2789STDY5608851

**B** Bacterium



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Dorea longicatena strain 2789STDY5608866

**B** Bacterium

Dorea longicatena strain 2789STDY5834914

**B** Bacterium

Dorea longicatena strain 2789STDY5834961

**B** Bacterium

Dorea sp. AGR2135

**B** Bacterium

Eggerthella lenta 1\_1\_60AFAA

**B** Bacterium

Eggerthella lenta DSM 2243

**B** Bacterium

Enterococcus faecium EnGen0029

**B** Bacterium

Enterococcus faecium isolate Hp\_21-11

**B** Bacterium

Enterococcus faecium isolate Hp\_23-14

**B** Bacterium

Enterococcus italicus DSM 15952

**B** Bacterium

Enterococcus sp. HMSC072F02

**B** Bacterium

Enterococcus sp. HMSC076E04

**B** Bacterium

Erysipelatoclostridium ramosum

**B** Bacterium



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Erysipelotrichaceae bacterium 5\_2\_54FAA

**B** Bacterium

Erysipelotrichaceae bacterium 6\_1\_45

**B** Bacterium

Escherichia coli

**B** Bacterium

Eubacterium ramulus ATCC 29099

**B** Bacterium

Eubacterium ramulus strain 2789STDY5608891

**B** Bacterium

Eubacterium sp. 68-3-10

**B** Bacterium

Eubacterium sp. ER2

**B** Bacterium

Eubacterium sulci ATCC 35585

**B** Bacterium

Eubacterium ventriosum ATCC 27560

**B** Bacterium

Faecalibacterium prausnitzii

**B** Bacterium

Faecalitalea cylindroides ATCC 27803

**B** Bacterium

Faecalitalea cylindroides T2-87

**B** Bacterium

Flintibacter

**B** Bacterium



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Fournierella massiliensis

**B** Bacterium

Fusicatenibacter saccharivorans

**B** Bacterium

Gemella bergeriae ATCC 700627

**B** Bacterium

Gemella haemolysans

**B** Bacterium

Gemella morbillorum

**B** Bacterium

Gemella sanguinis ATCC 700632

**B** Bacterium

Gemella sanguinis M325

**B** Bacterium

Gemella sanguinis strain 1094\_BTHU

**B** Bacterium

Gordonibacter urolithinifaciens

**B** Bacterium

Holdemania filiformis DSM 12042

**B** Bacterium

Holdemania massiliensis

**B** Bacterium

Holdemania sp. Marseille-P2844 sp. Marseille-P2844

**B** Bacterium

Idiomarina zobellii strain KMM

**B** Bacterium



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Intestinibacter bartlettii DSM 16795
<b>B</b> Bacterium
Intestinibacter bartlettii strain 2789STDY5834879
<b>B</b> Bacterium
Intestinimonas butyriciproducens strain AF211
<b>B</b> Bacterium
Intestinimonas massiliensis sp. GD2
<b>B</b> Bacterium
Kandleria vitulina DSM 20405
<b>B</b> Bacterium
Kandleria vitulina MC3001
<b>B</b> Bacterium
Kandleria vitulina strain S3b
<b>B</b> Bacterium
Kocuria kristinae
<b>B</b> Bacterium
Lachnospira pectinoschiza strain 2789STDY5834836
<b>B</b> Bacterium
Lachnospira pectinoschiza strain 2789STDY5834886
<b>B</b> Bacterium
Lachnospiraceae bacterium
<b>B</b> Bacterium
Lachnospiraceae bacterium 1_1_57FAA
<b>B</b> Bacterium
Lachnospiraceae bacterium 1_4_56FAA
<b>B</b> Bacterium



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Lachnospiraceae bacterium 2\_1\_58FAA

**B** Bacterium

Lachnospiraceae bacterium 3\_1\_46FAA

**B** Bacterium

Lachnospiraceae bacterium 3\_1\_57FAA\_CT1

**B** Bacterium

Lachnospiraceae bacterium 5\_1\_63FAA

**B** Bacterium

Lachnospiraceae bacterium 7\_1\_58FAA

**B** Bacterium

Lachnospiraceae bacterium 9\_1\_43BFAA

**B** Bacterium

Lactobacillus acidophilus La-14

**B** Bacterium

Lactobacillus acidophilus NCFM

**B** Bacterium

Lactobacillus acidophilus strain FSI4

**B** Bacterium

Lactobacillus casei 12A

**B** Bacterium

Lactobacillus casei BL23

**B** Bacterium

Lactobacillus casei LOCK919

**B** Bacterium

Lactobacillus casei M36

**B** Bacterium



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Lactobacillus casei UW1
B Bacterium
Lactobacillus casei str. Zhang
B Bacterium
Lactobacillus casei strain DPC6800
B Bacterium
Lactobacillus fermentum
B Bacterium P Probiotic
Lactobacillus paracasei ATCC 334
B Bacterium
Lactobacillus paracasei strain 275_LPAR
B Bacterium
Lactobacillus paracasei strain CAUH35
B Bacterium
Lactobacillus paracasei strain KL1
B Bacterium
Lactobacillus paracasei subsp. paracasei
B Bacterium
Lactobacillus paracasei subsp. paracasei Lpp14
B Bacterium
Lactobacillus paracasei subsp. paracasei Lpp22
B Bacterium
Lactococcus
B Bacterium
Massilioclostridium coli strain Marseille-P2976
B Bacterium



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Massiliomicrobiota timonensis

**B** Bacterium

Megamonas funiformis

**B** Bacterium

Megamonas rupellensis

**B** Bacterium

Merdibacter massiliensis strain Marseille-P3254

**B** Bacterium

Mogibacterium diversum

**B** Bacterium

Mogibacterium sp. CM50

**B** Bacterium

Neglecta timonensis

**B** Bacterium

Odoribacter splanchnicus DSM 20712

**B** Bacterium

Olsenella sp. DNF00959

**B** Bacterium

Olsenella uli DSM 7084

**B** Bacterium

Oscillibacter sp. ER4

**B** Bacterium

Oscillibacter sp. KLE 1745

**B** Bacterium

Oscillibacter valericigenes Sjm18-20

**B** Bacterium



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Oscillospiraceae bacterium VE202-24
B Bacterium
Parabacteroides distasonis ATCC 8503
B Bacterium
Parabacteroides goldsteinii strain 910340
B Bacterium
Parabacteroides gordonii DSM 23371
B Bacterium
Parabacteroides gordonii MS-1
B Bacterium
Parabacteroides johnsonii CL02T12C29
B Bacterium
Parabacteroides merdae ATCC 43184
B Bacterium
Parabacteroides merdae CL03T12C32
B Bacterium
Parabacteroides merdae CL09T00C40
B Bacterium
Parabacteroides merdae strain 2789STDY5834848
B Bacterium
Parabacteroides sp. 20_3
B Bacterium
Parabacteroides sp. 2_1_7
B Bacterium
Parabacteroides sp. D13
B Bacterium



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Parabacteroides sp. D26

**B** Bacterium

Parabacteroides sp. SN4 strain SN4, sp. SB4

**B** Bacterium

Paraclostridium bifermentans

**B** Bacterium

Parasutterella excrementihominis YIT 11859

**B** Bacterium

Parvimonas

**B** Bacterium

Pepper mild mottle virus

**V** Virus

Phoceia massiliensis strain Marseille-P2769

**B** Bacterium

Prevotella bivia DNF00320

**B** Bacterium

Prevotella buccalis DNF00853

**B** Bacterium

Prevotella buccalis DNF00985

**B** Bacterium

Prevotella copri DSM 18205

**B** Bacterium

Prevotella marshii DSM 16973 = JCM 13450

**B** Bacterium

Prevotella sp. HUN102

**B** Bacterium



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Prevotella sp. KHD1 sp. KHD1
<b>B</b> Bacterium
Prevotella stercorea DSM 18206
<b>B</b> Bacterium
Prevotellamassilia timonensis strain Marseille-P2831
<b>B</b> Bacterium
Pseudoflavonifractor capillosus ATCC 29799
<b>B</b> Bacterium
Pseudopropionibacterium propionicum
<b>B</b> Bacterium
Ralstonia insidiosa strain ATCC
<b>B</b> Bacterium
Ralstonia pickettii 12D
<b>B</b> Bacterium
Ralstonia pickettii 12J
<b>B</b> Bacterium
Romboutsia
<b>B</b> Bacterium
Roseburia faecis
<b>B</b> Bacterium
Roseburia hominis A2-183
<b>B</b> Bacterium
Roseburia intestinalis L1-82
<b>B</b> Bacterium
Roseburia inulinivorans
<b>B</b> Bacterium



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Rothia
<b>B</b> Bacterium
Ruminococcaceae bacterium D16
<b>B</b> Bacterium
Ruminococcaceae bacterium cv2
<b>B</b> Bacterium
Ruminococcus faecis JCM 15917
<b>B</b> Bacterium
Ruminococcus gnavus ATCC 29149
<b>B</b> Bacterium
Ruminococcus lactaris ATCC 29176
<b>B</b> Bacterium
Ruminococcus lactaris CC59_002D
<b>B</b> Bacterium
Ruminococcus sp. 5_1_39BFAA
<b>B</b> Bacterium
Ruminococcus sp. AT10
<b>B</b> Bacterium
Ruminococcus sp. DSM 100440
<b>B</b> Bacterium
Ruminococcus sp. JC304
<b>B</b> Bacterium
Ruminococcus sp. Marseille-P3213 sp. Marseille-P3213
<b>B</b> Bacterium
Ruminococcus torques ATCC 27756
<b>B</b> Bacterium



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Ruthenibacterium lactatiformans strain 585-1

**B** Bacterium

Saccharomyces cerevisiae S288C

**E** Eukaryote

Saccharomyces sp. 'boulardii' strain unique28

**E** Eukaryote

Sellimonas intestinalis strain BR72

**B** Bacterium

Senegalimassilia anaerobia JC110

**B** Bacterium

Sfi21dt1virus

**V** Virus

Sharpea azabuensis strain KH2P10

**B** Bacterium

Sinorhizobium sp. GL28

**B** Bacterium

Slackia sp. CM382

**B** Bacterium

Streptococcus constellatus subsp. pharyngis C1050

**B** Bacterium

Streptococcus constellatus subsp. pharyngis C232

**B** Bacterium

Streptococcus constellatus subsp. pharyngis C818

**B** Bacterium

Streptococcus cristatus ATCC 51100

**B** Bacterium



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Streptococcus equinus

**B** Bacterium

Streptococcus gordonii strain IE35

**B** Bacterium

Streptococcus gordonii strain KCOM

**B** Bacterium

Streptococcus intermedius B196

**B** Bacterium

Streptococcus intermedius C270

**B** Bacterium

Streptococcus intermedius JTH08

**B** Bacterium

Streptococcus lutetiensis

**B** Bacterium

Streptococcus milleri

**B** Bacterium

Streptococcus mutans LJ23

**B** Bacterium

Streptococcus mutans UA159

**B** Bacterium

Streptococcus mutans UA159-FR

**B** Bacterium

Streptococcus parasanguinis ATCC 15912

**B** Bacterium

Streptococcus parasanguinis FW213

**B** Bacterium



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Streptococcus phage O1205
<b>V</b> Virus
Streptococcus salivarius JIM8777
<b>B</b> Bacterium
Streptococcus salivarius strain HSISS4
<b>B</b> Bacterium
Streptococcus salivarius strain JF
<b>B</b> Bacterium
Streptococcus salivarius strain NCTC
<b>B</b> Bacterium
Streptococcus sp. 1171_SSPP
<b>B</b> Bacterium
Streptococcus sp. 343_SSPP
<b>B</b> Bacterium
Streptococcus sp. 400_SSPP
<b>B</b> Bacterium
Streptococcus sp. 449_SSPP
<b>B</b> Bacterium
Streptococcus sp. A12 sp. A12
<b>B</b> Bacterium
Streptococcus sp. AS20
<b>B</b> Bacterium
Streptococcus sp. CCH5-D3
<b>B</b> Bacterium
Streptococcus sp. CCH8-H5
<b>B</b> Bacterium



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Streptococcus sp. DD04
<b>B</b> Bacterium
Streptococcus sp. FDAARGOS_192
<b>B</b> Bacterium
Streptococcus sp. HMSC057G03
<b>B</b> Bacterium
Streptococcus sp. HMSC061E03
<b>B</b> Bacterium
Streptococcus sp. HMSC065C01
<b>B</b> Bacterium
Streptococcus sp. HMSC065H07
<b>B</b> Bacterium
Streptococcus sp. HMSC072C09
<b>B</b> Bacterium
Streptococcus sp. HMSC072G04
<b>B</b> Bacterium
Streptococcus sp. HMSC078H03
<b>B</b> Bacterium
Streptococcus sp. HMSC10E12
<b>B</b> Bacterium
Streptococcus sp. SR4
<b>B</b> Bacterium
Streptococcus thermophilus CNRZ1066
<b>B</b> Bacterium
Streptococcus thermophilus JIM 8232
<b>B</b> Bacterium



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Streptococcus thermophilus LMD-9

**B** Bacterium

Streptococcus thermophilus LMG 18311

**B** Bacterium

Streptococcus thermophilus MN-ZLW-002

**B** Bacterium

Streptococcus thermophilus ND03

**B** Bacterium

Streptococcus thermophilus strain CS8

**B** Bacterium

Streptococcus thermophilus strain KLDS

**B** Bacterium

Streptococcus thermophilus strain MN-BM-A01

**B** Bacterium

Streptococcus thermophilus strain ND07

**B** Bacterium

Streptococcus thermophilus strain S9

**B** Bacterium

Streptococcus vestibularis

**B** Bacterium

Streptococcus viridans

**B** Bacterium

Subdoligranulum sp. 4\_3\_54A2FAA

**B** Bacterium

Subdoligranulum variabile

**B** Bacterium



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Sutterella sp. KLE1602

**B** Bacterium

Sutterella wadsworthensis 2\_1\_59BFAA

**B** Bacterium

Sutterella wadsworthensis 3\_1\_45B

**B** Bacterium

Sutterella wadsworthensis HGA0223

**B** Bacterium

Terrisporobacter othiniensis strain 08-306576

**B** Bacterium

Turicibacter sanguinis

**B** Bacterium

Turicibacter sp. H121 sp. H121

**B** Bacterium

Tyzzereella nexilis

**B** Bacterium

Tyzzereella sp. Marseille-P3062 sp. Marseille-P3062

**B** Bacterium

Veillonella

**B** Bacterium

[Bacteroides] pectinophilus

**B** Bacterium

[Clostridium] asparagiforme

**B** Bacterium

[Clostridium] bolteae

**B** Bacterium



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[Clostridium] citroniae

**B** Bacterium

[Clostridium] clostridioforme 90A6

**B** Bacterium

[Clostridium] clostridioforme 90A7

**B** Bacterium

[Clostridium] clostridioforme 90A8

**B** Bacterium

[Clostridium] clostridioforme CM201

**B** Bacterium

[Clostridium] clostridioforme strain 2789STDY5834865

**B** Bacterium

[Clostridium] glycyrrhizinilyticum JCM 13369

**B** Bacterium

[Clostridium] innocuum

**B** Bacterium

[Clostridium] lactatifermentans

**B** Bacterium

[Clostridium] leptum DSM 753

**B** Bacterium

[Clostridium] spiroforme DSM 1552

**B** Bacterium

[Clostridium] symbiosum

**B** Bacterium

[Eubacterium rectale] ATCC 33656

**B** Bacterium



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[Eubacterium] contortum B Bacterium
[Eubacterium] dolichum DSM 3991 B Bacterium
[Eubacterium] eligens ATCC 27750 B Bacterium
[Eubacterium] hallii DSM 3353 B Bacterium
[Eubacterium] rectale strain T1-815 B Bacterium
[Eubacterium] siraeum DSM 15702 B Bacterium
[Eubacterium] siraeum strain 2789STDY5834928 B Bacterium
[Ruminococcus] torques strain 2789STDY5608833 B Bacterium
[Ruminococcus] torques strain 2789STDY5608867 B Bacterium
[Ruminococcus] torques strain 2789STDY5834841 B Bacterium
[Ruminococcus] torques strain 2789STDY5834889 B Bacterium
bacterium LF-3 B Bacterium
uncultured phage crAssphage V Virus



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## Viome Methodology

Microbial total RNA is extracted, ribosomal RNA molecules are removed from total RNA, and the remaining RNA molecules are sequenced on Illumina NextSeq or NovaSeq. Proprietary bioinformatics algorithms are used to perform taxonomic classification and functional analysis of the sequencing data.

Whole blood total RNA is extracted, polyadenylated transcripts are captured from total RNA and sequenced on Illumina NextSeq or NovaSeq. Proprietary bioinformatics algorithms are used to perform quantitative gene expression analysis of the sequencing data. Results are reported to Viome customers in the context of integrative functional health themes communicated as scores derived largely from proprietary pathway content and analytics methodology. Each score is built to account for molecular pathway topology and strength of literature evidence manually curated by translational science experts in systems biology. Scoring results are CLIA-validated and are end-to-end automated in the production system, which uses each customer's gene expression data as input.

## Method Limitation

Viome's results and recommendations are based on our ability to identify and quantify thousands of microbial taxa. Such vast diversity has not been captured in the genomic databases, so it is impossible to assess it comprehensively. There are microorganisms that thrive in the gut whose genomes have not been sequenced. Viome is unable to identify those specific organisms, but can identify their near neighbors, which have similar homology. There are also taxa that we cannot discriminate because of their sequence similarity, for example at the strain level. There are some RNA transcripts that may not always align and match to specific known organisms, which may be due to the fact that these sequences are poorly characterized, reliable consensus sequence may not be available for reference. Viome monitors the growth of public genomic databases and will update its own databases when there is sufficient new information to be worthy of incorporation.

Detection of a microorganism by this test does not imply having a disease. Similarly, not detecting a microorganism by this test does not exclude the presence of a disease-causing microorganism. Further, other organisms may be present that are not detected by this test. This test is not a substitute for established methods for identifying microorganisms or their antimicrobial susceptibility profile. Results are qualitative and identify the presence or absence of identified annotated organisms.

Viome's results and recommendations are based on our ability to identify and quantify thousands of human transcripts. While the test has been clinically validated and shows very high precision, it also has some limitations. As the presence of transcripts nears the limits of detection, the ability of the test to accurately detect them is diminished. This is simply due to the uneven distribution of molecules in liquid volumes, causing small random changes in the transcript concentrations. Scores rely on detection of expressed genes, as well as their levels of expression against the reference population cohort. Hence, certain sample results may be affected by any skewing or sampling biases of the reference cohort, as opposed to solely the biology of the given customer. Scores also are limited by our current understanding of actionable or biologically



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meaningful insights and literature coverage to date. As Viome's reference population expands and current knowledge grows, these limitations become more negligible.

The Gut Intelligence Test was developed by, and its performance characteristics determined by Viome Inc. It has not been cleared or approved by the US Food and Drug Administration. The FDA has determined that such clearance or approval is not necessary. This laboratory is registered under CLIA (50D2224932) to perform high complexity testing. Sequencing was performed at Viome Inc. CLIA (50D2224932). Contact Viome for any further questions.

The Human Gene Expression test was developed by, and its performance characteristics determined by Viome Inc. It has not been cleared or approved by the US Food and Drug Administration. The FDA has determined that such clearance or approval is not necessary. This laboratory is registered under CLIA 50D2224932 to perform high complexity testing. Sequencing was performed at Viome, Inc. CLIA 50D2224932. Contact Viome for any further questions.



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NICHOLAS PERRY'S RESULTS

VERSION: 1.14.2

These results are signed off by...

Jim Fuller

Technical Director

A handwritten signature in black ink, appearing to read "Jill", written in a cursive style.