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Annex 1. Illumina Nextera XT sample preparation Guideline

Information available in:

<http://bit.ly/14l61Hk>

Full link:

<https://drive.google.com/folderview?id=0B10cIcY1vW6jdWt6VG1wTVNtOGc&usp=sharing>

Annex 2. Alignment of Pf CSP through BLAST

Query ID [gi1160215|gb|AAA29554.1](#) **Database Name** nr
Description circumsporozoite protein [Plasmodium falciparum] **Description** All non-redundant GenBank CDS translations+PDB+SwissProt+PIR+PRF excluding environmental samples from WGS projects
Molecule type amino acid **Program** BLASTP 2.2.28+ [Citation](#)
Query Length 442

Other reports: [Search Summary](#) [Taxonomy reports](#) [Distance tree of results](#) [Multiple alignment](#)

[New](#) DELTA-BLAST, a more sensitive protein-protein search [Go](#)

Graphic Summary
[Show Conserved Domains](#)

Putative conserved domains have been detected, click on the image below for detailed results.

Distribution of 186 Blast Hits on the Query Sequence [Mouse-over to show define and scores, click to show alignments](#)

Descriptions

			Score	E
	Sequences producing significant alignments:		(Bits)	Value
1	WP_017884459.1	hypothetical protein [Leucobacter sp. UCD...	200	4,00E-53
2	WP_001902926.1	hypothetical protein [Streptococcus agala...	172	8,00E-44
3	WP_017285136.1	hypothetical protein, partial [Streptococ...	164	9,00E-44
4	YP_008118678.1	putative peptidoglycan linked protein (LP...	171	2,00E-43

5	CAJ66787.1	putative cell-wall anchored surface adhesin [...	165	1,00E-41
6	WP_001063244.1	hypothetical protein [Streptococcus agala...	165	2,00E-41
7	CAJ19700.1	surface protein [Streptococcus agalactiae]	165	4,00E-41
8	WP_001063245.1	hypothetical protein [Streptococcus agala...	164	4,00E-41
9	ACU44426.1	BibA [Streptococcus agalactiae]	164	5,00E-41
10	WP_001063237.1	hypothetical protein [Streptococcus agala...	162	2,00E-40
11	ACU44440.1	BibA [Streptococcus agalactiae]	162	2,00E-40
12	WP_001063247.1	hypothetical protein [Streptococcus agala...	162	2,00E-40
13	WP_001063233.1	hypothetical protein [Streptococcus agala...	160	4,00E-40
14	WP_001063236.1	hypothetical protein [Streptococcus agala...	160	4,00E-40
15	XP_798189.2	PREDICTED: pentatricopeptide repeat-containi...	161	9,00E-40
16	WP_000296504.1	hypothetical protein, partial [Streptococ...	152	1,00E-39
17	WP_001063246.1	hypothetical protein [Streptococcus agala...	159	2,00E-39
18	WP_001063249.1	hypothetical protein [Streptococcus agala...	159	2,00E-39
19	ACU44414.1	BibA [Streptococcus agalactiae]	158	2,00E-39
20	NP_689049.1	pathogenicity protein [Streptococcus agalact...	158	3,00E-39
21	WP_001063250.1	hypothetical protein [Streptococcus agala...	159	4,00E-39
22	WP_001063232.1	hypothetical protein [Streptococcus agala...	157	4,00E-39
23	WP_001063257.1	hypothetical protein [Streptococcus agala...	158	5,00E-39
24	ACU44429.1	BibA [Streptococcus agalactiae] >gbACU44436.1...	158	5,00E-39
25	WP_017646809.1	peptidoglycan linked protein [Streptococc...	158	6,00E-39
26	WP_001063235.1	hypothetical protein [Streptococcus agala...	157	6,00E-39
27	XP_003488634.1	PREDICTED: hypothetical protein LOC100746...	154	8,00E-39
28	WP_001063251.1	hypothetical protein [Streptococcus agala...	157	1,00E-38
29	ACU44428.1	BibA [Streptococcus agalactiae]	156	2,00E-38
30	WP_001063242.1	hypothetical protein [Streptococcus agala...	155	3,00E-38
31	ACU44413.1	BibA [Streptococcus agalactiae]	155	4,00E-38
32	WP_001063248.1	hypothetical protein [Streptococcus agala...	155	5,00E-38
33	ACU44417.1	BibA [Streptococcus agalactiae]	154	7,00E-38
34	ACU44420.1	BibA [Streptococcus agalactiae]	152	3,00E-37
35	EFN83834.1	hypothetical protein EAI_02648	147	4,00E-37

		[Harpegnathos s...		
36	WP_001867001.1	pathogenicity protein [Streptococcus agal...	148	4,00E-37
37	WP_001063239.1	hypothetical protein [Streptococcus agala...	151	5,00E-37
38	WP_017644245.1	peptidoglycan linked protein [Streptococc...	152	8,00E-37
39	WP_001063230.1	hypothetical protein [Streptococcus agala...	151	1,00E-36
40	CAJ66794.1	putative cell-wall anchored surface adhesin [...	150	3,00E-36
41	WP_017646182.1	peptidoglycan linked protein [Streptococc...	149	4,00E-36
42	ACU44460.1	BibA [Streptococcus agalactiae]	150	5,00E-36
43	ACU44455.1	BibA [Streptococcus agalactiae]	150	5,00E-36
44	WP_017645457.1	peptidoglycan linked protein [Streptococc...	150	6,00E-36
45	WP_001063238.1	hypothetical protein [Streptococcus agala...	148	8,00E-36
46	ACU44461.1	BibA [Streptococcus agalactiae]	149	9,00E-36
47	WP_001063252.1	hypothetical protein [Streptococcus agala...	149	9,00E-36
48	XP_002589890.1	hypothetical protein BRAFLDRAFT_81981 [Br...	143	1,00E-35
49	WP_001063272.1	hypothetical protein [Streptococcus agala...	149	1,00E-35
50	ACU44459.1	BibA [Streptococcus agalactiae]	149	1,00E-35
51	YP_006717789.1	ribonuclease, Rne/Rng family [Pelobacter ...	149	2,00E-35
52	ACU44449.1	BibA [Streptococcus agalactiae]	148	3,00E-35
53	WP_017766764.1	peptidoglycan linked protein, partial [St...	147	3,00E-35
54	WP_001063269.1	hypothetical protein [Streptococcus agala...	147	4,00E-35
55	ACU44454.1	BibA [Streptococcus agalactiae]	147	5,00E-35
56	ELR53142.1	hypothetical protein M91_08612, partial [Bos g...	136	2,00E-33
57	ACU44469.1	BibA [Streptococcus agalactiae]	142	3,00E-33
58	WP_000296538.1	hypothetical protein, partial [Streptococ...	132	1,00E-32
59	WP_001063241.1	hypothetical protein [Streptococcus agala...	138	2,00E-32
60	ELR48704.1	hypothetical protein M91_18454, partial [Bos g...	124	3,00E-29
61	YP_003918394.1	RNA polymerase sigma factor [Arthrobacter...	128	9,00E-29
62	XP_002009828.1	GI15578 [Drosophila mojavensis] >gbEDW07...	125	2,00E-27
63	YP_003917841.1	cell surface protein [Arthrobacter arilai...	124	4,00E-27
64	EJK50001.1	hypothetical protein THAOC_31069, partial [Tha...	110	4,00E-24
65	EJK74395.1	hypothetical protein THAOC_03929, partial [Tha...	111	2,00E-23

66	WP_009406917.1	peptidase [Actinomyces sp. oral taxon 175...	110	1,00E-22
67	EMC89843.1	Protein B602L, partial [Columba livia]	102	1,00E-22
68	EJK60299.1	hypothetical protein THAOC_19370 [Thalassiosir...	103	2,00E-20
69	YP_004816421.1	polysaccharide deacetylase [Streptomyces ...	91.7	1,00E-16
70	XP_001622163.1	hypothetical protein NEMVEDRAFT_v1g221080...	85.1	2,00E-14
71	EJK57506.1	hypothetical protein THAOC_22442 [Thalassiosir...	83.2	4,00E-14
72	WP_010735403.1	LPXTG-domain-containing protein cell wall...	81.6	1,00E-13
73	EJK70736.1	hypothetical protein THAOC_07881, partial [Tha...	71.6	2,00E-10
74	EJK47715.1	hypothetical protein THAOC_33547, partial [Tha...	68.9	2,00E-09
75	XP_002165153.2	PREDICTED: uncharacterized protein LOC100...	58.9	4,00E-06
76	EDP55205.1	PT repeat family protein [Aspergillus fumigatu...	57.8	8,00E-06
77	XP_001631424.1	predicted protein [Nematostella vectensis...	49.3	4,00E-04
78	ELU09856.1	hypothetical protein CAPTEDRAFT_197207, partia...	49.7	0.002
79	XP_784596.3	PREDICTED: uncharacterized protein LOC579383...	48.5	0.006
80	EJW02257.1	hypothetical protein EDEG_03308 [Edhazardia ae...	47.0	0.017
81	XP_001276820.1	DEAD/DEAH box helicase family protein [Tr...	45.1	0.068

Annex 3. Detailed microbial composition in the five groups of analysis.

Information available in:

<http://bit.ly/14l61Hk>

Full link:

<https://drive.google.com/folderview?id=0B10cIcY1vW6jdWt6VG1wTVNtOGc&usp=sharing>

Annex 4. Common core of species in five groups of analysis

Species present in all five groups:

[Cellvibrio] gilvus ATCC 13127 strain ATCC 13127
 Acetobacter pasteurianus strain CCM 3612
 Acidovorax avenae strain FC-143
 Acidovorax avenae subsp. avenae ATCC 19860 strain ATCC 19860
 Acidovorax avenae subsp. avenae strain ICMP 3183
 Acidovorax caeni strain : R-24608
 Acidovorax cattleyae strain ICMP 2826
 Acidovorax citrulli AAC00-1 strain AAC00-1
 Acidovorax citrulli strain ICMP 7500
 Acidovorax defluvii strain BSB411
 Acidovorax ebreus TPSY strain TPSY
 Acinetobacter baumannii ATCC 17978 strain ATCC 17978
 Acinetobacter baumannii strain DSM 30007
 Acinetobacter beijerinckii strain : NIPH 838 = LUH 4759
 Acinetobacter bouvetii strain 4B02
 Acinetobacter gernerii strain 9A01
 Acinetobacter gyllenbergii strain : RUH 422 = NIPH 2150 = ACI 651
 Acinetobacter haemolyticus strain DSM 6962
 Acinetobacter johnsonii strain ATCC 17909
 Acinetobacter junii strain DSM 6964
 Acinetobacter oleivorans DR1 strain DR1
 Acinetobacter parvus strain LUH4616
 Acinetobacter radioresistens DSM 6976
 Acinetobacter schindleri strain LUH5832
 Acinetobacter tjernbergiae strain 7N16
 Acinetobacter ursingii strain LUH 3792Type
 Acinetobacter venetianus strain ATCC 31012
 Aerococcus urinaeequi strain IFO12173
 Aestuariimicrobium kwangyangense strain R27
 Agrococcus baldri strain IAM 15147
 Agrococcus citreus strain IAM 15145
 Agrococcus jenensis strain DSM 9580
 Agrococcus lahaulensis strain K22-21
 Agromonas oligotrophica strain S58
 Alicyclophilus denitrificans BC strain BC
 Alkalilimnicola ehrlichii MLHE-1 strain MLHE-1
 Alkanindiges illinoisensis strain MVAB Hex1
 Amycolatopsis marina strain Ms392A
 Amycolatopsis mediterranei U32 strain U32
 Aquabacterium fontiphilum strain CS-6
 Aquincola tertiaricarbonis strain L10
 Arthrobacter aurescens TC1 strain TC1; ATCC BAA-1386

Arthrobacter nasiphocae strain M597/99/10
Arthrobacter phenanthrenivorans Sphe3 strain Sphe3
Asticcacaulis biprosthecium strain ACM 2498
Asticcacaulis excentricus strain CB 48
Azohydromonas lata strain IAM 12599
Azomonas agilis strain NCIB 11693
Azotobacter armeniacus strain DSM 2284
Azotobacter chroococcum strain IAM 12666
Azotobacter salinestris strain ATCC 49674
Azotobacter vinelandii DJ strain DJ; ATCC BAA-1303
Bacillus thuringiensis Bt407
Beutenbergia cavernae DSM 12333 strain DSM 12333
Blastobacter denitrificans strain IFAM 1005; LMG 8443
Bradyrhizobium betae strain PL7HG1
Bradyrhizobium japonicum strain 3I1b6
Bradyrhizobium japonicum USDA 110 strain USDA110
Bradyrhizobium liaoningense strain 2281; USDA 3622
Bradyrhizobium oligotrophicum S58 strain S58
Bradyrhizobium sp. BTA-1
Bradyrhizobium sp. BTAi1 strain BTAi1
Bradyrhizobium yuanmingense strain B071
Brochothrix thermosphacta
Burkholderia ambifaria AMMD strain AMMD
Burkholderia cenocepacia AU 1054 strain AU 1054
Burkholderia cepacia GG4 strain GG4
Burkholderia cepacia strain 717
Burkholderia gladioli BSR3 strain BSR3
Burkholderia glumae BGR1 strain BGR1
Burkholderia multivorans ATCC 17616 strain ATCC 17616
Burkholderia sp. 383 strain 383
Burkholderia vietnamiensis G4 strain G4
Buttiauxella agrestis ATCC 33320 strain DSM 4586
Buttiauxella izardii strain S3/2-161
Buttiauxella noackiae strain NSW 11
Buttiauxella warmboldiae strain NSW 326
Caldimonas manganoxidans strain JCM 10698
Caldimonas taiwanensis strain On1
Candidatus Hodgkinia cicadicola Dsem strain Dsem
Candidatus Liberibacter asiaticus str. psy62 strain psy62
Carnobacterium maltaromaticum LMA28
Catenulispora acidiphila DSM 44928 strain DSM 44928
Caulobacter leidyia strain ATCC 15260
Cellvibrio japonicus Ueda107 strain Ueda107
Chromohalobacter salexigens DSM 3043 strain DSM 3043
Chroococcidiopsis thermalis PCC 7203 strain PCC 7203
Cloacibacterium normanense strain :CCUG 46293
Collimonas arenae strain NCCB 100031
Collimonas fungivorans strain Ter6
Collimonas pratensis strain CTO 91

Comamonas composti strain YY287
Comamonas denitrificans strain 123
Comamonas kerstersii strain LMG 3475
Comamonas nitratorans strain 23310
Comamonas odontotermitis strain Dant 3-8
Comamonas terrigena strain IMI 359870
Comamonas testosteroni CNB-2 strain CNB-1
Comamonas testosteroni strain KS 0043
Corynebacterium jeikeium K411 strain K411 = NCTC 11915
Corynebacterium jeikeium strain A376/84
Corynebacterium macginleyi strain CIP104099T
Corynebacterium pseudodiphtheriticum strain CIP103420T
Corynebacterium pseudotuberculosis FRC41 strain FRC41
Corynebacterium pseudotuberculosis strain E 23
Corynebacterium sphenisci strain CECT 5990
Corynebacterium sputi strain : IMMIB L-999
Corynebacterium suicordis strain S-81/02
Corynebacterium tuberculostearicum strain Medalle X
Corynebacterium variabile DSM 44702 strain DSM 44702
Curvibacter gracilis strain 7-1
Curvibacter lanceolatus strain ATCC 14669
Delftia acidovorans SPH-1 strain SPH-1
Delftia sp. Cs1-4 strain Cs1-4
Devriesea agamarum strain IMP2
Diaphorobacter nitroreducens strain NA10B
Diaphorobacter oryzae strain RF3
Duganella zoogloeoides strain IAM 12670
Ehrlichia chaffeensis str. Arkansas strain Arkansas
Ehrlichia ruminantium str. Welgevonden strain Welgevonden
Enhydrobacter aerosaccus strain G
Enterobacter aerogenes KCTC 2190 strain KCTC 2190
Enterobacter aerogenes strain JCM1235
Enterobacter amnigenus strain JCM1237
Enterobacter asburiae LF7a strain LF7a
Enterobacter asburiae strain JCM6051
Enterobacter cancerogenus strain LMG 2693
Enterobacter cloacae subsp. dissolvens strain LMG 2683
Enterobacter hormaechei ATCC 49162 strain CIP 103441
Enterobacter kobei strain CIP 105566
Enterobacter ludwigii strain : EN-119 = DSMZ 16688 = CIP 108491
Enterobacter sp. 638 strain 638
Enterococcus casseliflavus EC20 strain EC20
Erwinia billingiae Eb661 strain Eb661
Erwinia persicina strain HK 204
Escherichia coli O157:H7 str. Sakai strain Sakai
Escherichia coli str. K-12 substr. MG1655 strain K-12
Escherichia coli strain U 5/41
Escherichia fergusonii ATCC 35469
Escherichia fergusonii ATCC 35469 strain ATCC 35469

Fronديهabitans australicus strain E1HC-02
Galbibacter mesophilus strain Mok-17
Georgenia thermotolerans strain TT02-04
Giesbergeria anulus strain IAM 14948
Giesbergeria giesbergeri strain IAM 14949
Giesbergeria kuznetsovii strain D-412
Giesbergeria sinuosa strain LMG 4393
Gordonia bronchialis DSM 43247 strain DSM 43247
Gordonia polyisoprenivorans VH2 strain VH2
Gordonia sp. KTR9 strain KTR9
Haliangium ochraceum DSM 14365 strain DSM 14365
Heliobacillus mobilis strain DSM 6151
Heliobacterium chlorum ATCC 35205
Heliobacterium modesticaldum Ice1 strain DSM 9504
Heliobacterium modesticaldum Ice1 strain Ice1; ATCC 51547
Heliorestis daurensis strain BT-H1
Herbaspirillum autotrophicum strain IAM 14942
Herbaspirillum rhizosphaerae strain UMS-37
Herminiimonas glaciei strain UMB49
Herminiimonas saxobsidens strain : NS11
Hydrogenophaga atypica strain BSB 41.8
Hydrogenophaga bisanensis strain K102
Hydrogenophaga caeni strain EMB71
Hydrogenophaga defluvii strain BSB 9.5
Hyphomicrobium denitrificans ATCC 51888 strain ATCC 51888
Ideonella sp. 1a22 strain 1a22
Isophtericola variabilis 225 strain 225
Janthinobacterium agaricidamnosum strain W1r3
Janthinobacterium sp. Marseille strain Marseille
Kineosporia babensis strain VN05A0415 (= NBRC 104154)
Klebsiella oxytoca KCTC 1686 strain KCTC 1686
Klebsiella pneumoniae strain DSM 30104
Klebsiella pneumoniae subsp. *pneumoniae* MGH 78578 strain ATCC 700721; MGH 78578
Klebsiella pneumoniae subsp. *rhinoscleromatis* strain R-70
Klebsiella variicola At-22 strain At-22
Klebsiella variicola strain F2R9
Kluyvera cryocrescens strain 12993
Kluyvera intermedia strain 256
Lactobacillus acidophilus 30SC strain 30SC
Lactobacillus antri strain Kx146A4
Lactobacillus coleohominis DSM 14060 strain :DSM 14060
Lactobacillus fermentum IFO 3956 strain IFO 3956
Lactobacillus frumenti strain TMW 1.666
Lactobacillus helveticus DPC 4571 strain DPC 4571
Lactobacillus ingluviei strain KR3
Lactobacillus mucosae strain CCUG 43179
Lactobacillus reuteri DSM 20016 strain DSM 20016
Lactobacillus secaliphilus strain : TMW 1.1309

Lactobacillus vaginalis strain ATCC49540
Lactococcus chungangensis strain CAU 28
Lactococcus garvieae ATCC 49156 strain ATCC 49156
Lactococcus lactis subsp. cremoris SK11 strain SK11
Lactococcus lactis subsp. cremoris strain NCDO 607
Lactococcus lactis subsp. hordniae strain NCDO 2181
Lactococcus lactis subsp. lactis strain NCDO 604
Lactococcus piscium strain CCUG 32732
Lactococcus raffinolactis strain DSM 20443
Leifsonia bigeumensis strain MSL 27
Leifsonia pindariensis strain : PON10
Leptothrix cholodnii SP-6 strain SP-6
Leuconostoc mesenteroides subsp. mesenteroides ATCC 8293 strain ATCC 8293
Luteimonas aestuarii strain B9
Luteimonas aquatica strain RIB1-20
Luteimonas composti strain CC-YY255
Luteimonas marina strain FR1330
Luteococcus japonicus strain OUT 8086
Lysinibacillus sphaericus C3-41
Lysobacter niastensis strain GH41-7
Lysobacter ximonensis strain XM415
Marinobacter adhaerens HP15 strain HP15
Marinomonas mediterranea MMB-1 strain MMB-1
Marinomonas polaris
Marinomonas pontica strain 46-16
Marinomonas sp. MWYL1 strain MWYL1
Marinomonas vaga strain 40
Massilia aerilata strain 5516S-11
Massilia brevitalea strain byr23-80
Massilia niabensis strain 5420S-26
Massilia niastensis strain 5516S-1
Methylibium petroleiphilum PM1 strain PM1
Methylibium subsaxonicum strain : BF49
Methylobacterium extorquens AM1 strain AM1
Microbacterium aerolatum strain V-73
Microbacterium awajiense strain YM13-414
Microbacterium binotii strain CIP 101303
Microbacterium flavum strain YM18-098
Microbacterium hatanonis strain JCM 14558
Microbacterium hominis strain : DSM 12509
Microbacterium hydrocarbonoxydans strain : DSM 16089
Microbacterium insulae strain DS-66
Microbacterium keratanolyticum strain IFO 13309
Microbacterium ketosireducens strain IFO 14548
Microbacterium kitamiense strain kitami C2
Microbacterium lacus strain A5E-52
Microbacterium laevaniformans strain C820
Microbacterium luticocti strain : SC-087B
Microbacterium maritypicum strain : DSM 12512

Microbacterium paraoxydans strain CF36
Microbacterium profundum strain Shh49
Microbacterium terrae strain A-1
Microbacterium testaceum StLB037 strain StLB037
Microbacterium thalassium strain : DSM 12511
Microbacterium xylanilyticum strain : S3-E
Micrococcus antarcticus strain T2
Micrococcus endophyticus strain YIM 56238
Micrococcus flavus strain LW4
Micrococcus luteus NCTC 2665 strain NCTC 2665
Micrococcus luteus strain DSM 20030
Micrococcus lylae strain DSM 20315
Mitsuaria chitosanitabida strain 3001
Moraxella boevrei strain ATCC 700022
Moraxella bovis strain L-3
Moraxella bovoculi 237 strain 237
Moraxella canis strain N7
Moraxella caprae strain ATCC 700019
Moraxella catarrhalis BBH18 strain BBH18
Moraxella catarrhalis strain Ne 11
Moraxella caviae strain GP11
Moraxella cuniculi strain CCUG 2154
Moraxella equi strain 327/72
Moraxella lacunata strain Morax 260
Moraxella ovis strain 199/55
Moraxella pluranimalium strain : 248-01
Mycobacterium abscessus
Mycobacterium gilvum PYR-GCK strain PYR-GCK
Mycobacterium gilvum Spyr1 strain Spyr1
Mycobacterium goodii strain M069
Mycobacterium massiliense str. GO 06 strain GO 06
Mycobacterium rhodesiae NBB3 strain NBB3
Mycobacterium salmoniphilum strain ATCC 13758
Mycobacterium setense strain ABO-M06; DSM 45070
Mycobacterium smegmatis str. MC2 155 strain MC2 155
Mycobacterium vanbaalenii PYR-1
Mycobacterium vanbaalenii PYR-1 strain PYR-1
Naxibacter varians strain : CCUG 35299
Nitrincola lacisaponensis strain 4CA
Nitrobacter hamburgensis X14 strain X14
Nonlabens dokdonensis DSW-6
Oligotropha carboxidovorans OM4 strain OM4
Oligotropha carboxidovorans OM5 strain OM5
Oligotropha carboxidovorans OM5 strain OM5; ATCC 49405
Ottowia thiooxydans strain K11
Pantoea dispersa strain LMG2603
partial sequence >gi|470467876|ref|NR_074198.1| *Renibacterium salmoninarum* ATCC 33209
Pelomonas aquatica strain : CCUG 52575

Pelomonas puraquae strain : CCUG 52769
Pelomonas saccharophila strain DSM 654
Perlucidibaca piscinae strain IMCC1704
Piscinibacter aquaticus strain IMCC1728
Polaromonas naphthalenivorans CJ2 strain CJ2
Polaromonas sp. JS666 strain JS666
Polaromonas vacuolata strain 34-P
Propionibacterium acidipropionici ATCC 4875 strain ATCC 4875
Propionibacterium acidipropionici strain NCFB 570
Propionibacterium acnes
Propionibacterium acnes KPA171202 strain KPA171202
Propionibacterium australiense strain LCDC-98A072
Propionibacterium avidum 44067 strain 44067
Propionibacterium avidum strain DSM 4901
Propionibacterium cyclohexanicum strain TA-12
Propionibacterium granulosum strain DSM 20700
Propionibacterium propionicum strain DSM 43307
Pseudacidovorax intermedius strain CC-21
Pseudanabaena sp. PCC 7367 strain PCC 7367
Pseudomonas aeruginosa PAO1 strain PAO1
Pseudomonas anguilliseptica strain S 1
Pseudomonas antarctica strain CMS 35
Pseudomonas argentinensis strain CH01
Pseudomonas azotoformans strain KS 0034
Pseudomonas brassicacearum subsp. brassicacearum NFM421 strain NFM421
Pseudomonas brenneri strain CFML 97-391
Pseudomonas cannabina strain CFBP 2341
Pseudomonas caricapapayae strain Robbs ENA-378
Pseudomonas cedrina strain CFML 96-198
Pseudomonas cedrina subsp. fulgida strain : DSM 14938 = LMG 21467
Pseudomonas chlororaphis subsp. aurantiaca strain NCIB 10068
Pseudomonas congelans strain P 538/23
Pseudomonas constantinii strain CFBP 5705
Pseudomonas cuatrocienegasensis strain 1N
Pseudomonas denitrificans ATCC 13867 strain ATCC 13867
Pseudomonas duriflava strain HR2
Pseudomonas entomophila L48
Pseudomonas extremorientalis strain KMM 3447
Pseudomonas ficuserectae strain JCM 2400
Pseudomonas flavescens strain B62
Pseudomonas fluorescens Pf0-1 strain Pf0-1
Pseudomonas fragi strain ATCC 4973
Pseudomonas fulva 12-X strain 12-X
Pseudomonas fulva strain AJ 2129
Pseudomonas geniculata strain ATCC 19374
Pseudomonas gessardii strain CIP 105469
Pseudomonas grimontii strain CFML 97-514
Pseudomonas hibiscicola strain ATCC 19867
Pseudomonas indica strain IMT37

Pseudomonas japonica strain IAM 15071
Pseudomonas jessenii strain CIP 105274
Pseudomonas koreensis strain Ps 9-14
Pseudomonas libanensis strain CIP 105460
Pseudomonas lini strain DLE411J
Pseudomonas lundensis strain ATCC 49968
Pseudomonas lurida strain : DSM 15835
Pseudomonas mandelii strain CIP 105273
Pseudomonas marincola strain KMM 3042
Pseudomonas mendocina ymp strain ymp
Pseudomonas meridiana strain CMS 38
Pseudomonas migulae strain CIP 105470
Pseudomonas mohnii strain : IpA-2
Pseudomonas monteilii strain CIP 104883
Pseudomonas moorei strain : RW10
Pseudomonas moraviensis strain CCM 7280
Pseudomonas mosselii strain CIP 105259
Pseudomonas mucidolens strain IAM12406
Pseudomonas orientalis strain CFML 96-170
Pseudomonas palleroniana strain CFBP 4389
Pseudomonas panacis strain CG20106
Pseudomonas panipatensis strain Esp-1
Pseudomonas poae RE*1-1-14 strain RE*1-1-14
Pseudomonas poae strain P 527/13
Pseudomonas protegens Pf-5 strain Pf-5
Pseudomonas proteolytica strain CMS 64
Pseudomonas psychrophila strain E-3
Pseudomonas putida F1 strain F1
Pseudomonas putida KT2440 strain KT2440
Pseudomonas reinekei strain : MT1
Pseudomonas rhodesiae strain CIP 104664
Pseudomonas savastanoi strain ATCC 13522
Pseudomonas segetis strain FR1439
Pseudomonas simiae strain : OLi
Pseudomonas straminea strain CB-7
Pseudomonas stutzeri A1501
Pseudomonas synxantha strain IAM12356
Pseudomonas syringae pv. phaseolicola 1448A strain 1448A; BAA-978
Pseudomonas syringae pv. *syringae* strain NCPPB 281; 8511
Pseudomonas syringae pv. tomato str. DC3000 strain DC3000
Pseudomonas taetrolens strain I11
Pseudomonas tolaasii strain LMG 2342
Pseudomonas tremae strain TO1
Pseudomonas trivialis strain P 513/19
Pseudomonas umsongensis strain Ps 3-10
Pseudomonas vancouverensis strain : DhA-51=ATCC 700688
Pseudomonas veronii strain CIP 104663
Pseudomonas viridiflava strain CECT 458
Pseudorhodoferax caeni strain : SB1

Pseudorhodofera *solii* strain TBEA3
Pseudoxanthomonas *daejeonensis* strain TR6-08
Pseudoxanthomonas *dokdonensis* strain DS-16
Pseudoxanthomonas *japonensis* strain 12-3
Pseudoxanthomonas *kalamensis* strain JA40
Pseudoxanthomonas *mexicana* strain AMX 26B
Pseudoxanthomonas *sacheonensis* strain BD-c54
Pseudoxanthomonas *spadix* BD-a59 strain BD-a59
Pseudoxanthomonas *spadix* strain : IMMIB AFH-5
Pseudoxanthomonas *yeongjuensis* strain GR12-1
Psychrobacter *cryohalolentis* K5 strain K5
Ralstonia *pickettii* 12J strain 12J
Ramlibacter *henchirensis* strain TMB834
Ramlibacter *tataouinensis* TTB310
Ramlibacter *tataouinensis* TTB310 strain TTB310
Renibacterium *salmoninarum* strain ATCC33209 16S ribosomal RNA
Rhizobacter *dauci* strain H6 (=ATCC43778)
Rhizobium *lupini* strain : DSM 30140
Rhodococcus *erythropolis* PR4 strain PR4 (= NBRC 100887)
Rhodococcus *jostii* RHA1 strain RHA1
Rhodococcus *opacus* B4 strain B4
Rickettsia *africae* ESF-5 strain ESF-5
Rickettsia *parkeri* str. Portsmouth strain Portsmouth
Rickettsia *rickettsii* str. 'Sheila Smith' strain Sheila Smith
Rothia *mucilaginosa* DY-18 strain DY-18
Rubrivivax *benzoatilyticus* JA2 strain : JA2
Rubrivivax *gelatinosus* IL144 strain IL144
Rubrivivax *gelatinosus* strain ATH 2.2.1
Saccharothrix *espanaensis* DSM 44229 strain : DSM 44229
Serinibacter *salmoneus* strain Kis4-28
Serratia *liquefaciens* strain CIP 103238
Shigella *boydii* Sb227 strain Sb227
Shigella *flexneri* strain ATCC 29903
Shigella *sonnei* Ss046 strain Ss046
Simplicispira *limi* strain EMB325
Simplicispira *psychrophila* strain CA 1
Sphingomonas *insulae* strain DS-28
Sphingomonas *pseudosanguinis* strain : G1-2
Staphylococcus *aureus* subsp. *anaerobius* strain MVF-7
Staphylococcus *aureus* subsp. *aureus* JH1 strain JH1
Staphylococcus *aureus* subsp. *aureus* N315 strain N315
Staphylococcus *aureus* subsp. *aureus* strain S33 R
Staphylococcus *capitis* strain LK 499
Staphylococcus *capitis* subsp. *urealyticus* strain MAW 8436
Staphylococcus *caprae* strain ATCC 35538
Staphylococcus *carnosus* subsp. *carnosus* TM300 strain TM300
Staphylococcus *carnosus* subsp. *utilis* strain GTC 1232
Staphylococcus *chromogenes* strain CBCC 1462
Staphylococcus *cohnii* subsp. *cohnii* strain GH 137

Staphylococcus cohnii subsp. urealyticus strain CK27
Staphylococcus epidermidis RP62A strain RP62A
Staphylococcus epidermidis strain Fussel
Staphylococcus haemolyticus JCSC1435 strain JCSC1435
Staphylococcus hominis subsp. hominis strain DM 122
Staphylococcus hominis subsp. novobiosepticus strain GTC 1228
Staphylococcus lugdunensis HKU09-01 strain HKU09-01
Staphylococcus lugdunensis strain ATCC 43809
Staphylococcus nepalensis strain CW1
Staphylococcus pasteurii strain ATCC51129
Staphylococcus saccharolyticus strain S 1
Staphylococcus simiae CCM 7213 strain CCM 7213
Staphylococcus warneri SG1 strain SG1
Staphylococcus warneri strain AW 25
Stenotrophomonas acidaminiphila strain AMX 19
Stenotrophomonas humi strain : R-32729
Stenotrophomonas koreensis strain TR6-01
Stenotrophomonas maltophilia R551-3 strain R551-3
Stenotrophomonas maltophilia strain ATCC 19861
Stenotrophomonas maltophilia strain IAM 12423
Stenotrophomonas maltophilia strain LMG 981
Stenotrophomonas rhizophila strain e-p10
Stenotrophomonas terrae strain : R-32768
Streptococcus agalactiae 2603V/R strain 2603V/R
Streptococcus castoreus strain : M605815/03/2
Streptococcus equi subsp. equi strain ATCC 33398
Streptococcus equi subsp. ruminatorum strain CECT 5772
Streptococcus equi subsp. zooepidemicus MGCS10565 strain MGCS10565; ATCC BAA1716
Streptococcus henryi strain 126
Streptococcus infantis ATCC 700779 strain ATCC 700779
Streptococcus minor strain ON59
Streptococcus mitis B6 strain B6
Streptococcus mitis strain NS51
Streptococcus oralis ATCC 35037 strain ATCC 35037
Streptococcus oralis Uo5 strain Uo5
Streptococcus parauberis KCTC 11537 strain KCTC 11537
Streptococcus peroris strain GTC848
Streptococcus phocae strain CCUG 35103
Streptococcus pneumoniae R6 strain R6
Streptococcus pneumoniae strain ATCC 33400
Streptococcus porcinus strain 176
Streptococcus pseudopneumoniae IS7493 strain IS7493
Streptococcus pseudopneumoniae strain 108
Streptococcus pseudoporcinus LQ 940-04 strain LQ 940-04
Streptococcus sanguinis SK36 strain SK36
Streptococcus sinensis strain HKU4
Streptococcus thermophilus MN-ZLW-002 strain MN-ZLW-002
Streptococcus thermophilus strain ATCC 19258

Streptococcus uberis 0140J strain 0140J
Streptococcus uberis strain JCM 5709
Streptococcus vestibularis ATCC 49124 strain ATCC 49124
Streptomyces bangladeshensis strain AAB-4
Streptomyces flavidovirens strain NBRC 13039
Thermodesulfovibrio thiophilus strain TDV
Thermodesulfovibrio yellowstonii DSM 11347 strain DSM 11347
Thermodesulfovibrio yellowstonii strain YP87
Thioalkalivibrio nitratireducens DSM 14787 strain DSM 14787
Thioalkalivibrio sulfidophilus HL-EbGr7 strain HL-EbGR7
Tsukamurella paurometabola DSM 20162 strain DSM 20162
Undibacterium pigrum strain : CCUG 49009
Variovorax dokdonensis strain DS-43
Variovorax paradoxus EPS strain EPS
Variovorax paradoxus S110 strain S110
Variovorax paradoxus strain 13-0-1D
Variovorax soli strain GH9-3
Wolbachia endosymbiont of *Culex quinquefasciatus* Pel strain wPip
Wolbachia endosymbiont strain TRS of *Brugia malayi*
Xanthomonas albilineans GPE PC73 strain GPE PC73
Xanthomonas axonopodis pv. *citri* str. 306 strain 306
Xanthomonas campestris pv. *campestris* str. ATCC 33913 strain ATCC 33913
Xanthomonas cynarae strain CFBP 4188
Xanthomonas fragariae strain LMG 708
Xanthomonas oryzae pv. *oryzae* KACC 10331 strain KACC10331
Xanthomonas oryzae strain LMG 5047
Xanthomonas populi strain LMG 5743
Xanthomonas theicola strain TC1
Xenophilus azovorans strain KF46F
Xylella fastidiosa 9a5c
Zymobacter palmae strain ATCC 51623
total number of species: 511

Annex 5. Pool of controls

Information available in:

<http://bit.ly/14l61Hk>

Full link:

<https://drive.google.com/folderview?id=0B10cIcY1vW6jdWt6VG1wTVNtOGc&usp=sharing>

Annex 6. List of species in each mosquito present only in head/thorax portions and not in controls (paired analysis).

Information available in:

<http://bit.ly/14l61Hk>

Full link:

<https://drive.google.com/folderview?id=0B10cIcY1vW6jdWt6VG1wTVNtOGc&usp=sharing>

Annex 7. Paired analysis of species with number of hits.

Information available in:

<http://bit.ly/14l61Hk>

Full link:

<https://drive.google.com/folderview?id=0B10cIcY1vW6jdWt6VG1wTVNtOGc&usp=sharing>