BProteo_Abaumannii_WP_000042456.1 BSpiroc_Linterrogans_WP_000650726.1 BProteo_Nmeningitidis_WP_002257648.1 BProteo_Babortus_WP_002963653.1 BProteo_Paeruginosa_WP_003120896.1 BProteo_Rgroup_WP_003509079.1 BProteo_Ngonorrhoeae_WP_003688269.1 BActino_Scoelicolor_WP_003975057.1 BProteo_Pmirabilis_WP_004244106.1 BProteo_Rprowazekii_WP_004596839.1 BProteo_Vparahaemolyticus_WP_005480837.1 BProteo_Hinfluenzae_WP_005693258.1 BChlamy_Pacanthamoebae_WP_006340294.1 BActino_Cefficiens_WP_006768689.1 BActino_Blongum_WP_008783054.1 BActino_Rjostii_WP_009476748.1 BChlamy_Ctrachomatis_WP_009871537.1 BSpiroc_Tpallidum_WP_010881454.1	AccNum WP_000042456.1 WP_000650726.1 WP_002257648.1 WP_002963653.1 WP_003120896.1 WP_003509079.1 WP_003688269.1 WP_003975057.1 WP_004244106.1 WP_004596839.1 WP_005480837.1	Acinetobacter baumannii Leptospira interrogans	TaxID Lineage 470 Bacteria>Proteobacteria		DomArch.MobiDBLite	Length DUF721 range (aa)		up Gram stain
BProteo_Nmeningitidis_WP_002257648.1 BProteo_Babortus_WP_002963653.1 BProteo_Paeruginosa_WP_003120896.1 BProteo_Rgroup_WP_003509079.1 BProteo_Ngonorrhoeae_WP_003688269.1 BActino_Scoelicolor_WP_003975057.1 BProteo_Pmirabilis_WP_004244106.1 BProteo_Rprowazekii_WP_004596839.1 BProteo_Vparahaemolyticus_WP_005480837.1 BProteo_Hinfluenzae_WP_005693258.1 BFusoba_Fnecrophorum_WP_005956359.1 BChlamy_Pacanthamoebae_WP_006340294.1 BActino_Cefficiens_WP_006768689.1 BActino_Blongum_WP_008783054.1 BActino_Rjostii_WP_009476748.1 BChlamy_Ctrachomatis_WP_009871537.1 BSpiroc_Tpallidum_WP_010881454.1	WP_002257648.1 WP_002963653.1 WP_003120896.1 WP_003509079.1 WP_003688269.1 WP_003975057.1 WP_004244106.1 WP_004596839.1			DciA	NA	154 27-95	Group 4	-
Proteo_Babortus_WP_002963653.1 Proteo_Paeruginosa_WP_003120896.1 Proteo_Rgroup_WP_003509079.1 Proteo_Ngonorrhoeae_WP_003688269.1 Actino_Scoelicolor_WP_003975057.1 Proteo_Pmirabilis_WP_004244106.1 Proteo_Rprowazekii_WP_004596839.1 Proteo_Vparahaemolyticus_WP_005480837.1 Proteo_Hinfluenzae_WP_005693258.1 Chlamy_Pacanthamoebae_WP_006340294.1 Actino_Cefficiens_WP_006768689.1 Actino_Blongum_WP_008783054.1 Actino_Rjostii_WP_009476748.1 Chlamy_Ctrachomatis_WP_009871537.1 Spiroc_Tpallidum_WP_010881454.1	WP_002963653.1 WP_003120896.1 WP_003509079.1 WP_003688269.1 WP_003975057.1 WP_004244106.1 WP_004596839.1	National description of the latest and the latest a	171 Bacteria>Spirochaetes	DciA	NA	154 15-103	Group 3	-
Proteo_Paeruginosa_WP_003120896.1 Proteo_Rgroup_WP_003509079.1 Proteo_Ngonorrhoeae_WP_003688269.1 Actino_Scoelicolor_WP_003975057.1 Proteo_Pmirabilis_WP_004244106.1 Proteo_Rprowazekii_WP_004596839.1 Proteo_Vparahaemolyticus_WP_005480837.1 Proteo_Hinfluenzae_WP_005693258.1 Chlamy_Pacanthamoebae_WP_006340294.1 Actino_Cefficiens_WP_006768689.1 Actino_Blongum_WP_008783054.1 Actino_Rjostii_WP_009476748.1 Chlamy_Ctrachomatis_WP_009871537.1 Spiroc_Tpallidum_WP_010881454.1	WP_003120896.1 WP_003509079.1 WP_003688269.1 WP_003975057.1 WP_004244106.1 WP_004596839.1	Neisseria meningitidis	487 Bacteria>Proteobacteria	DciA	NA	140 14-79	Group 3	-
Proteo_Rgroup_WP_003509079.1 Proteo_Ngonorrhoeae_WP_003688269.1 Actino_Scoelicolor_WP_003975057.1 Proteo_Pmirabilis_WP_004244106.1 Proteo_Rprowazekii_WP_004596839.1 Proteo_Vparahaemolyticus_WP_005480837.1 Proteo_Hinfluenzae_WP_005693258.1 Prusoba_Fnecrophorum_WP_005956359.1 Chlamy_Pacanthamoebae_WP_006340294.1 Actino_Cefficiens_WP_006768689.1 Actino_Blongum_WP_008783054.1 Actino_Rjostii_WP_009476748.1 Chlamy_Ctrachomatis_WP_009871537.1 Spiroc_Tpallidum_WP_010881454.1	WP_003509079.1 WP_003688269.1 WP_003975057.1 WP_004244106.1 WP_004596839.1	Brucella abortus	234 Bacteria>Proteobacteria	DciA	NA NA	175 12-110	Group 3	
Proteo_Ngonorrhoeae_WP_003688269.1 Actino_Scoelicolor_WP_003975057.1 Proteo_Pmirabilis_WP_004244106.1 Proteo_Rprowazekii_WP_004596839.1 Proteo_Vparahaemolyticus_WP_005480837.1 Proteo_Hinfluenzae_WP_005693258.1 Chlamy_Pacanthamoebae_WP_005956359.1 Actino_Cefficiens_WP_006768689.1 Actino_Blongum_WP_008783054.1 Actino_Rjostii_WP_009476748.1 Chlamy_Ctrachomatis_WP_009871537.1 Spiroc_Tpallidum_WP_010881454.1	WP_003688269.1 WP_003975057.1 WP_004244106.1 WP_004596839.1	Pseudomonas aeruginosa Rhizobium/Agrobacterium group	286 Bacteria>Proteobacteria 227290 Bacteria>Proteobacteria	DciA DciA	NA NA	131 5-74 173 14-114	Group 3 Group 3	-
Actino_Scoelicolor_WP_003975057.1 Proteo_Pmirabilis_WP_004244106.1 Proteo_Rprowazekii_WP_004596839.1 Proteo_Vparahaemolyticus_WP_005480837.1 Proteo_Hinfluenzae_WP_005693258.1 Pusoba_Fnecrophorum_WP_005956359.1 Chlamy_Pacanthamoebae_WP_006340294.1 Actino_Cefficiens_WP_006768689.1 Actino_Blongum_WP_008783054.1 Actino_Rjostii_WP_009476748.1 Chlamy_Ctrachomatis_WP_009871537.1 Spiroc_Tpallidum_WP_010881454.1	WP_003975057.1 WP_004244106.1 WP_004596839.1	Neisseria gonorrhoeae	485 Bacteria>Proteobacteria	DciA	NA NA	140 3-88	Group 3 Group 3	_
Proteo_Rprowazekii_WP_004596839.1 Proteo_Vparahaemolyticus_WP_005480837.1 Proteo_Hinfluenzae_WP_005693258.1 Fusoba_Fnecrophorum_WP_005956359.1 Chlamy_Pacanthamoebae_WP_006340294.1 Actino_Cefficiens_WP_006768689.1 Actino_Blongum_WP_008783054.1 Actino_Rjostii_WP_009476748.1 Chlamy_Ctrachomatis_WP_009871537.1 Spiroc_Tpallidum_WP_010881454.1	WP_004596839.1	Streptomyces coelicolor	1883 Bacteria>Actinobacteria	DciA	disorder region+disorder region	190 72-161	Group 4	+
Proteo_Vparahaemolyticus_WP_005480837.1 Proteo_Hinfluenzae_WP_005693258.1 Fusoba_Fnecrophorum_WP_005956359.1 Chlamy_Pacanthamoebae_WP_006340294.1 Actino_Cefficiens_WP_006768689.1 Actino_Blongum_WP_008783054.1 Actino_Rjostii_WP_009476748.1 Chlamy_Ctrachomatis_WP_009871537.1 Spiroc_Tpallidum_WP_010881454.1		Proteus mirabilis	583 Bacteria>Proteobacteria	DciA	NA	172 8-100	Group 3	-
Proteo_Hinfluenzae_WP_005693258.1 Fusoba_Fnecrophorum_WP_005956359.1 Chlamy_Pacanthamoebae_WP_006340294.1 Actino_Cefficiens_WP_006768689.1 Actino_Blongum_WP_008783054.1 Actino_Rjostii_WP_009476748.1 Chlamy_Ctrachomatis_WP_009871537.1 Spiroc_Tpallidum_WP_010881454.1	WP 005480837.1	Rickettsia prowazekii	782 Bacteria>Proteobacteria	DciA	NA	108 4-98	Group 1	-
Fusoba_Fnecrophorum_WP_005956359.1 Chlamy_Pacanthamoebae_WP_006340294.1 Actino_Cefficiens_WP_006768689.1 Actino_Blongum_WP_008783054.1 Actino_Rjostii_WP_009476748.1 Chlamy_Ctrachomatis_WP_009871537.1 Spiroc_Tpallidum_WP_010881454.1		Vibrio parahaemolyticus Haemophilus influenzae	670 Bacteria>Proteobacteria 727 Bacteria>Proteobacteria	DciA DciA	disorder region NA	151 8-94 104 13-98	Group 3 Group 1	-
Chlamy_Pacanthamoebae_WP_006340294.1 Actino_Cefficiens_WP_006768689.1 Actino_Blongum_WP_008783054.1 Actino_Rjostii_WP_009476748.1 Chlamy_Ctrachomatis_WP_009871537.1 Spiroc_Tpallidum_WP_010881454.1	WP_005693258.1 WP_005956359.1	Haemophilus influenzae Fusobacterium necrophorum	727 Bacteria>Proteobacteria 859 Bacteria>Fusobacteria	DciA DciA	NA NA	99 4-89	Group 1 Group 1	-
Actino_Cefficiens_WP_006768689.1 Actino_Blongum_WP_008783054.1 Actino_Rjostii_WP_009476748.1 Chlamy_Ctrachomatis_WP_009871537.1 Spiroc_Tpallidum_WP_010881454.1	WP_005956359.1 WP_006340294.1	Fusobacterium necrophorum Parachlamydia acanthamoebae	859 Bacteria>Fusobacteria 83552 Bacteria>Chlamydiae	DciA DciA	NA NA	99 4-89	Group 1 Group 1	variable (NA), counted as
Actino_Rjostii_WP_009476748.1 \ Chlamy_Ctrachomatis_WP_009871537.1 \ Spiroc_Tpallidum_WP_010881454.1 \	WP_006768689.1	Corynebacterium efficiens	152794 Bacteria>Actinobacteria	DciA	disorder region+disorder region	193 81-168	Group 2	+
Chlamy_Ctrachomatis_WP_009871537.1 \ Spiroc_Tpallidum_WP_010881454.1 \	WP_008783054.1	Bifidobacterium longum	216816 Bacteria>Actinobacteria	DciA	NA	156 54-141	Group 2	+
Spiroc_Tpallidum_WP_010881454.1	WP_009476748.1	Rhodococcus jostii	1827 Bacteria>Actinobacteria	DciA	disorder region+disorder region+disorder region	188 76-163	Group 2	+
	WP_009871537.1	Chlamydia trachomatis	813 Bacteria>Chlamydiae	DciA	NA	116 25-113	Group 1	variable (NA), counted as
Proteo_Lpneumophila_WP_010948302.1	WP_010881454.1	Treponema pallidum	160 Bacteria>Spirochaetes	DciA	disorder region+disorder region	145 7-93	Group 3	-
	WP_010948302.1	Legionella pneumophila	446 Bacteria>Proteobacteria	DciA	NA	140 3-89	Group 3	-
Proteo_Cburnetii_WP_010957403.1	WP_010957403.1	Coxiella burnetii	777 Bacteria>Proteobacteria	DciA	NA	114 25-109	Group 1	-
	WP_010985745.1	Streptomyces avermiltilis	1883 Bacteria>Actinobacteria	DciA	disorder region+disorder region	181 66-155	Group 4	+
<u>, </u>	WP_011141578.1	Gloeobacter violaceus Bdellovibrio bacteriovorus	33072 Bacteria>Cyanobacteria	DciA	NA NA	180 5-93	Group 3	
	WP_011165754.1 WP_011180388.1	Bartonella henselae	959 Bacteria>Proteobacteria 38323 Bacteria>Proteobacteria	DciA DciA	NA NA	166 12-110	Group 3 Group 3	
	WP_011726604.1	Mycolicibacterium smegmatis	1772 Bacteria>Actinobacteria	DciA	disorder region+disorder region	194 82-169	Group 2	+
	WP_011738409.1	Mycobacterium ulcerans	1809 Bacteria>Actinobacteria	DciA	disorder region+disorder region	187 75-162	Group 2	+
Thermo_Tpetrophila_WP_011942798.1	WP_011942798.1	Thermotoga petrophila	93929 Bacteria>Thermotogae	DciA	NA	101 3-90	Group 1	-
Proteo_Asuccinogenes_WP_012073745.1	WP_012073745.1	Actinobacillus succinogenes	67854 Bacteria>Proteobacteria	DciA	NA	110 12-97	Group 1	-
Proteo_Rrickettsii_WP_012151389.1	WP_012151389.1	Rickettsia rickettsii	783 Bacteria>Proteobacteria	DciA	NA	107 4-98	Group 1	-
Elusim_Eminutum_WP_012414187.1	WP_012414187.1	Elusimicrobium minutum	423605 Bacteria>Elusimicrobia	DciA	NA	98 9-97	Group 1	-
	WP_012499396.1	Chloroherpeton thalassium	100716 Bacteria>Chlorobi	DciA	NA	97 9-96	Group 1	-
<u> </u>	WP_012538193.1	Borrelia crocidurae	29520 Bacteria>Spirochaetes	DciA	NA NA	99 8-96	Group 1	-
<u> </u>	WP_012547832.1	Dictyoglomus thermophilum	14 Bacteria>Dictyoglomi	DciA	NA NA	160 8-92	Group 3	-
	WP_012682303.1 WP_013009384.1	Gemmatimonas aurantiaca Denitrovibrio acetiphilus	173480 Bacteria>Gemmatimonadetes 118000 Bacteria>Deferribacteres	DciA DciA	NA NA	103 11-99	Group 3	
<u> </u>	WP_013009384.1 WP_013553388.1	Denitrovibrio acetiphilus Nitratifractor salsuginis	118000 Bacteria>Deferribacteres 269261 Bacteria>Proteobacteria	DciA DciA	NA NA	147 4-84 153 6-75	Group 3 Group 3	_
	WP_013553388.1 WP_013816973.1	Methylomonas methanica	421 Bacteria>Proteobacteria 421 Bacteria>Proteobacteria	DciA DciA	NA NA	153 6-75	Group 3 Group 3	-
	WP_013834763.1	Thiomicrospira cyclica	147268 Bacteria>Proteobacteria	DciA	NA NA	143 6-89	Group 3	-
	WP_013908751.1	Thermodesulfatator indicus	171695 Bacteria>Thermodesulfobacteria	DciA	NA	159 3-90	Group 3	
Proteo_Maustralicum_WP_015318768.1	WP_015318768.1	Mesorhizobium australicum	68287 Bacteria>Proteobacteria	DciA	NA	166 12-110	Group 3	-
Synerg_Ffastidiosum_WP_015556932.1	WP_015556932.1	Fretibacterium fastidiosum	651822 Bacteria>Synergistetes	DciA	disorder region+disorder region	176 29-113	Group 4	-
Proteo_Vcholerae_WP_032481231.1	WP_032481231.1	Vibrio cholerae	666 Bacteria>Proteobacteria	DciA	NA	157 8-94	Group 3	-
	WP_038603888.1	Corynebacterium atypicum	191610 Bacteria>Actinobacteria	DciA	disorder region	206 94-181	Group 2	+
<u>`</u>	WP_038794713.1	Burkholderia pseudomallei	28450 Bacteria>Proteobacteria	DciA	NA NA	159 22-105	Group 3	-
	WP_041976151.1	Pyrinomonas methylaliphatogenes	454194 Bacteria>Acidobacteria	DciA	NA	158 3-90	Group 3	_
	WP_045781360.1	Klebsiella michiganensis	1134687 Bacteria>Proteobacteria	DciA	NA NA	171 8-98	Group 3	
	WP_049188024.1 WP_049582384.1	Serratia marcescens Photorhabdus luminescens	615 Bacteria>Proteobacteria 29488 Bacteria>Proteobacteria	DciA DciA	NA NA	171 7-91 172 15-100	Group 2 Group 3	-
		Moraxella ovis	29488 Bacteria>Proteobacteria 29433 Bacteria>Proteobacteria	DciA	NA NA	172 15-100	Group 3 Group 4	
	WP_074493017.1	Corynebacterium glutamicum	1718 Bacteria>Actinobacteria	DciA	disorder region+disorder region	178 66-153	Group 2	+
	WP_077585554.1	Mycobacterium tuberculosis	1773 Bacteria>Actinobacteria	DciA	disorder region+disorder region	187 75-162	Group 2	+
/erruc_Pdebontii_WP_078816175.1	WP_078816175.1	Prosthecobacter debontii	48467 Bacteria>Verrucomicrobia	DciA	NA	141 52-138	Group 2	-
Proteo_Pmultocida_WP_083003370.1	WP_083003370.1	Pasteurella multocida	747 Bacteria>Proteobacteria	DciA	NA	101 8-93	Group 1	-
Fibrob_Fintestinalis_WP_083545550.1	WP_083545550.1	Fibrobacter intestinalis	28122 Bacteria>Fibrobacteres	DciA	NA	113 25-112	Group 2	-
	WP_092049429.1	Planctomicrobium piriforme	1576369 Bacteria>Planctomycetes	DciA	NA	116 14-102	Group 1	- (but unique)
	WP_099620986.1	Caulobacter mirabilis	69666 Bacteria>Proteobacteria	DciA	NA	182 31-122	Group 4	-
		Duncaniella dubosii	2518971 Bacteria>Bacteroidetes					_
		Geovibrio thiophilus	139438 Bacteria>Deferribacteres	DciA	NA	146 2-84	Group 3	
SProteo_Mxanthus_WP_140863302.1	WP_140863302.1	Myxococcus xanthus	34 Bacteria>Proteobacteria	DciA	NA	101 8-94	Group 1	-
;Proteo_Salpina_WP_183109841.1	WP_183109841.1	Sphingomonas alpina	653931 Bacteria>Proteobacteria	DciA	disorder region+disorder region	184 25-118	Group 3	-
SNitros_Nmoscoviensis_WP_187299312.1	WP_187299312.1	Nitrospira moscoviensis	42253 Bacteria>Nitrospirae	DciA	disorder region	155 11-96	Group 3	-
Actino_Sseoulensis_WP_217711121.1	WP_217711121.1	Streptomyces seoulensis	73044 Bacteria>Actinobacteria	DciA+YAcAr	NA	206 1-75	Group 2	+
BPlanct_Ppiriforme_WP_092049429.1 BProteo_Cmirabilis_WP_099620986.1 BAcidob_Belongata_WP_103932439.1 BActino_Bindicum_WP_110444323.1 BBacter_Pdenticola_WP_118866996.1 BBacter_Ddubosii_WP_123613775.1 BDeferr_Gthiophilus_WP_128465527.1 BProteo_Mxanthus_WP_140863302.1 BProteo_Salpina_WP_183109841.1 BNitros_Nmoscoviensis_WP_187299312.1	WP_092049429.1 WP_099620986.1 WP_103932439.1 WP_110444323.1 WP_118866996.1 WP_123613775.1 WP_128465527.1 WP_140863302.1 WP_183109841.1 WP_187299312.1	Planctomicrobium piriforme Caulobacter mirabilis Bryocella elongata Bifidobacterium indicum Prevotella denticola Duncaniella dubosii Geovibrio thiophilus Myxococcus xanthus Sphingomonas alpina Nitrospira moscoviensis	1576369 Bacteria>Planctomycetes 69666 Bacteria>Proteobacteria 863522 Bacteria>Acidobacteria 1691 Bacteria>Actinobacteria 28129 Bacteria>Bacteroidetes 2518971 Bacteria>Bacteroidetes 139438 Bacteria>Deferribacteres 34 Bacteria>Proteobacteria 653931 Bacteria>Proteobacteria 42253 Bacteria>Nitrospirae	DciA DciA DciA DciA DciA DciA DciA DciA	NA disorder region+disorder region disorder region	116 14-102 182 31-122 104 3-89 165 54-140 96 8-95 96 8-95 146 2-84 101 8-94 184 25-118 155 11-96	Group 1 Group 4 Group 1 Group 2 Group 1 Group 3 Group 3 Group 3	- (but unique)