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Pseu	omonas aeruginosa domonas aeruginos domonas aeruginos monas aeruginosa	a CR1 a AZPAE15042 PA7	-428 +136 406	-711 +136 -208 +135 +136 -204
	Pseudomonas aeru Pseudomonas aeru Pseudomonas ae Pseudomonas ae	ruginosa AR_0446 ruginosa PA-VAP-4 reruginosa 401853	*136 <u>*84</u>	4555 + +135 +1340 +135 +136 -657
	Pseudomonas a Pseudomonas a Pseudomonas a	ruginosa LICME WGH-6 eruginosa IOMTU 133 eruginosa AR_0095 eruginosa M1608 eruginosa M37351	-1148 +136 -1147 -1148 +136 -1147	+531 +136 +532
	Pseudomonas as Pseudomonas as Pseudomonas as Pseudomonas as Pseudomonas as		-1148 +138 -1147 -1148 +138 -1147 -1148 +138 -1147 -1148 +138 -005	
	Pseudomonas as Pseudomonas as Pseudomonas as Pseudomonas as	eruginosa UCBPP-PA14 eruginosa UCBPP-PA14 eruginosa PA-VAP-3 eruginosa H26023 eruginosa INQH-PAS7 eruginosa PA_D1 eruginosa PA_D21 eruginosa PA_D21 eruginosa PA_D5	+83 +138 -003	
	Pseudomonas as Pseudomonas as	eruginosa PA_D22 eruginosa PA_D16 eruginosa H25883	400 400 40	
	Pseudomonas au Pseudomonas au Pseudomonas au	eruginosa 60503 eruginosa ST773 eruginosa PSE6684	+63 +136 +64 +63 +136 +64	
	Pseudomonas a Pseudomonas a Pseudomonas a	eruginosa NCGM1984 eruginosa NCGM1900 eruginosa E6130952	-604 +136 -603 -604 +136 -603 -604 +136 -603 -604 +136 -603	
	Pseudomonas a Pseudomonas a Pseudomonas a Pseudomonas a	eruginosa 243931 eruginosa 243931 eruginosa PA19-3047 eruginosa FDAARGOS_571 eruginosa FDAARGOS_501	-504 +136 -603 +53 +136 +64 -604 +136 -603 +63 +136 -710 -504 +136 -710	- 500 - +135 4603 - 404 - +135 4603
	Pseudomonas a Pseudomonas a	eruginosa B-I-1 eruginosa AR, 0357 eruginosa MRSN12280 eruginosa 268 eruginosa NCGM2.S1	-804 +136 -003 -804 +138 -003 -804 +138 -003 -804 +138 -003	+135 +136 -405 +135 +136 -405
	Pseudomonas a	eruginosa SE5331 eruginosa SE5352	-604 +136 -603 -604 +136 -603 -604 +136 -603 -604 +136 -603 -604 +136 -603	
	Pseudomonas a Pseudomonas a Pseudomonas a Pseudomonas a	eruginosa 1903031130 eruginosa GIMCS001:PAT-23 eruginosa GIMCS002:PAT-169 eruginosa CCUG 51971 eruginosa SE5458 eruginosa SE5429	-804 +138 -003 -804 +138 -003 -804 +138 -003 -804 +138 -003 -804 +138 -003	7792 +135 +610 556 +135 +64 792 +135 +610
	Pseudomonas a Pseudomonas a Pseudomonas a Pseudomonas a Pseudomonas a	eruginosa Sesass eruginosa SES429 eruginosa 24Pae112 eruginosa Pa124 eruginosa Pa127 eruginosa nan eruginosa nan eruginosa PeyII-40	·13 ·136 ·24	404 - 118 - 403
	Pseudomonas ac Pseudomonas ac	eruginosa nan eruginosa PASGNDM699 eruginosa PASGNDM345		*135 *136 -603 *135 *136 *136 -603 *135 *136 -603
	Pseudomonas ae Pseudomonas ae Pseudomonas ae Pseudomonas ae Pseudomonas ae	eruginosa Pa58 eruginosa AR_0353 eruginosa Ocean-1155 eruginosa Ocean-1175	+83 +136 +84 +83 +136 +84 +83 +136 +84 +83 +136 +84	*1000 * 135 * 137
	Pseudomonas as Pseudomonas as	eruginosa DN1 eruginosa PPF-1 eruginosa AR_455 eruginosa PABL048 eruginosa PABCH46	+83 +136 -296 +83 +136 -750 +83 +136 +84 +83 +136 +84	*135 *135 *137
	Pseudomonas as Pseudomonas as	eruginosa PABCH46 eruginosa S04 90 eruginosa NCGM257 eruginosa nan eruginosa AR_0440	+83 +138 +84 +83 +138 +84	-711 +136710
	Pseudomonas ar Pseudomonas ar Pseudomonas ar	eruginosa BA7823 eruginosa BA7823 eruginosa SP4528 eruginosa SP4528 eruginosa SP4371	+63 +136 +64 +63 +136 +64 +63 +136 +64 +63 +136 +64 +63 +136 +64	
	Pseudomonas ar Pseudomonas ar	eruginosa B17932 eruginosa SP4527	+83 +136 +84 +83 +136 +84 +83 +136 +84	
		eruginosa GIMC5016:PA1840 eruginosa PB369 eruginosa PB368 eruginosa DVT413 eruginosa T2436	+136 +136 -710 +836 +136 -710 +836 +136 -710 +836 +84	4501 +135 +137 +1503 +136 -912
	—Preudomonas ae	ruginosa BAMCPA07-48 ruginosa K19PSE24 ruginosa KC-Tt-1 ruginosa JB2	+766 +138 +84 -604 +138 -603 +63 +136 +84	+135 - +136 - +233
	Pseudomonas ae Pseudomonas ae Pseudomonas ae Pseudomonas ae Pseudomonas a	ruginosa MTB-1 ruginosa PA-VAP-1 ruginosa B136-33 ruginosa VRFPA04 eruginosa 12939	-622 +136 +64 -63 +136 +84	*135 +136 +137 *531 +136 +532
	—Pseudomonas a	eruginosa PAC6 eruginosa PAC6		*135 *135 *532 *135 *135 *532 *135 *136 *532 *135 *136 *1000
			+83 <u></u> +138 <u></u> +84	*135 *136 *137 -558 *138 *137 -1031 *136 *137 *1532
	Pseudomonas as Pseudomonas as Pseudomonas as Pseudomonas as Pseudomonas as	iginosa PA_154197 uginosa IMP-013 sruginosa SCAID PHRX1-2019 sruginosa SCAID PHRX1-2019 sruginosa HOU1 seruginosa HOU1 sruginosa DVT410 sruginosa DVT410 sruginosa DVT410 sruginosa DVT419	+531 +136 +64 +637 +136 +64	+135 +136 +137
	Pseudomonas ac Pseudomonas ac	eruginosa DVT419 eruginosa AR444 eruginosa AR_0110 eruginosa AR_0111 eruginosa AR_0230 eruginosa AR_0230 eruginosa AR_0230	+1304 +136 +1305 +83 +136 +64 +63 +136 +64	+135 +136 +137 +135 +136 +137 +135 +136 +137
	Pseudomonas ar	eruginosa AR. 0230 eruginosa PA83 eruginosa CDN118 eruginosa K34-7 eruginosa CDN129	+83 = +136 = +84 +83 = +136 = +84	+135 +136 +137 +135 +136 +137 +135 +136 +137
	Pseudomonas a Pseudomonas a Pseudomonas a	eruginosa AR_460 eruginosa PA1RG eruginosa PA1 eruginosa PA1R eruginosa MS14403		*135 *136 -926 *135 *136 -926 *135 *136 -926
	Pseudomonas a Pseudomonas a	eruginosa MS14403 eruginosa CCBH4851 eruginosa PA1088 eruginosa 213BR eruginosa PA11803 eruginosa PA8281		-792 - 136 -796 -792 - 136 -796 -792 - 136 -796
	Pseudomonas a Pseudomonas a	eruginosa PA7790 eruginosa 19BR		-792 +136 -380 -792 +138 -380 -792 +136 -790 -792 +136 -790
	Pseudomonas Pseudomonas Pseudomonas a Pseudomonas a	eruginosa PA298 aeruginosa PA1242 aeruginosa WCHPA075019 eruginosa S19119 eruginosa Y71 eruginosa Y89 eruginosa E80	+63 +138 +84 +53 +338 +84	7711 +135 -622 -711 +135 -622
	Pseudomonas a Pseudomonas a	eruginosa Y31 eruginosa I YT4	-793 +136 +64 -657 +136 +64	+1003 +136 -919
	Pseudomonas a Pseudomonas a Pseudomonas a Pseudomonas a	eruginosa N17-1 eruginosa C-I-1 eruginosa PRD-10 eruginosa FDAARGOS_610 eruginosa TJ2019-022	+53 +136 +54 +53 +136 +54	
	Pseudomonas a Pseudomonas a	eruginosa TJ2019-022 eruginosa NCTC10332 eruginosa DSM 50071 = NBRC 126 eruginosa A17CT eruginosa ATCC 15692 eruginosa GIMC5015:PAKB6	138 454	
	Pseudomonas ar Pseudomonas ar	eruginosa FDAARGOS_767 eruginosa P16PBS		
	Pseudomonas au Pseudomonas au	eruginosa MPAO1 eruginosa PAO1PBS eruginosa P4CT eruginosa UAB2PBS eruginosa ULUYANG-C eruginosa PAO7SO		
	Pseudomonas au Pseudomonas au	eruginosa PA0750 eruginosa PA01 eruginosa PA01 eruginosa PA01-VE2 eruginosa PA01161	+83 +138 -710	
	Pseudomonas as Pseudomonas as	eruginosa PAO581 eruginosa PAO1_Orsay eruginosa LIUYANG-B eruginosa LIUYANG-A eruginosa W16407	+83 = +136 = +84	
	Pseudomonas a Pseudomonas a Pseudomonas a	eruginosa PAC1 eruginosa SES3S7 aeruginosa FDAARGOS_570	+63 +136 +64 +63 +136 +64 +63 +136 -246	+785 +135 +137 +135 +136 +137
	Pseudomonas ae Pseudomonas ae Pseudomonas ae	ruginosa AR442 ruginosa DHS01 DH01 ruginosa CCUG 70744 rruginosa 1811-13R031 eruginosa Carb01 63	+83 +136 +84 +83 +136 +84	+135 +136 +137 +135 +136 +137
	Pseudomonas a Pseudomonas a Pseudomonas a Pseudomonas a	eruginosa RIVM-EMC2982 eruginosa AG1 eruginosa Y82 eruginosa A-I-1	+136 +136 +154 +153 +136 +137 +137 +137 +137 +137 +137 +137 +137	*135 *135 *84
	Pseudomonas a Pseudomonas a Pseudomonas a	eruginosa AR445 eruginosa nan eruginosa FRD1 eruginosa F30658	+83 +138 +84 +83 +138 +84 -855 +136 +84 +83 +136 -1031	-031 - +136 - +532
	Pseudomonas a	eruginosa DL201330 eruginosa F5677 eruginosa nan ieruginosa 97 ieruginosa 1334/14	+83 +138 +84 +83 +138 +136 +84	*531 *136 *532 *531 *136 *532
	Pseudomonas a Pseudomonas a Pseudomonas a Pseudomonas a	eruginosa SCAID WND2-2019 eruginosa N15-01092 eruginosa 152962 eruginosa YT12746	+83 +136 +84	
	Pseudomonas a	eruginosa YTSEY8 eruginosa DVT425 eruginosa 12-4-4(59) eruginosa DVT401 eruginosa Paer4_119	+136 -580 -657 +136 -586	
	Pseudomonas a Pseudomonas a	eruginosa PAS9 eruginosa C7-25 eruginosa FA-HZ1	+83 +136 -1009	7711 +136 -710 -711 +136 -710
	Pseudomonas a Pseudomonas a Pseudomonas a	eruginosa W45909 eruginosa nan eruginosa DVT729	-711 +138 +84	711 +136 -710 711 +136 -710
	Pseudomonas a Pseudomonas a Pseudomonas a	eruginosa PABCHOS eruginosa USDA-ARS-USMARC-416 eruginosa NCTC11445 eruginosa PABCH13 eruginosa SE5443	39 +63 +63 +136 +64 -710 +64 -64 -64	+135 +136 +137 +135 +136 +137
	Pseudomonas a Pseudomonas a Pseudomonas a Pseudomonas a	eruginosa PAGS eruginosa NRD619 eruginosa PARM801 eruginosa PASS3	+63 +136 -226 +63 +136 -132	-711 + 136936
	Pseudomonas a Pseudomonas a Pseudomonas a Pseudomonas a	eruginosa PB354 eruginosa X78812 eruginosa RD1-3 eruginosa I FSRS8		
	Pseudomonas ar Pseudomonas ar Pseudomonas ar Pseudomonas ar	eruginosa LES400 eruginosa LESB65 eruginosa LES431 eruginosa LESlike1		
	Pseudomonas au Pseudomonas au Pseudomonas au	eruginosa LESlikeS eruginosa LESlike7 eruginosa LESlike4 eruginosa mPA08-31 eruginosa AES1M eruginosa AES1R	467 - 136 - 164	
	Pseudomonas a Pseudomonas a	eruginosa AES1R eruginosa SES416 eruginosa DVT417 eruginosa DVT414 eruginosa DVT779	136 154	457 - +135 - +137
	Pseudomonas a Pseudomonas a Pseudomonas a Pseudomonas a	eruginosa PA3 eruginosa PAK eruginosa PAK eruginosa ATCC 27853	+83	
	Pseudomonas a Pseudomonas a Pseudomonas a Pseudomonas a	eruginosa ATCC 27853 eruginosa FDAARGOS_1041 eruginosa NCTC12903 eruginosa Pa1207	+53 +136 +64 +53 +136 +64 +53 +136 +64 +53 +136 +64 +53 +136 +64	 -
	Pseudomonas a Pseudomonas a Pseudomonas a Pseudomonas a Pseudomonas a	eruginosa PABCH14 eruginosa S86968 eruginosa T38079 eruginosa F9670 eruginosa PABCH01	+63 +136 +64 +63 +136 +64 +63 +136 +64 +63 +136 +64 +63 +136 -74	-711 - 136822
	Pseudomonas a Pseudomonas a	eruginosa FDAARGOS_505 eruginosa PABCH42 eruginosa SE5369 eruginosa AR439 eruginosa FDAARGOS_532	+83 +136 +84 +83 +136 +84 +83 +136 +84 +83 +138 +84	
	Pseudomonas a Pseudomonas a	eruginosa FDAARGOS_532 eruginosa PAAK09S eruginosa F22031 eruginosa H27930 eruginosa PA121617	+136 +136 +84	
	Pseudomonas a Pseudomonas a Pseudomonas a Pseudomonas a	eruginosa PcyII-29 eruginosa CF39S eruginosa CFSAN084950 eruginosa YD001	-607 +136 +64 -607 +136 +64	
	Pseudomonas a Pseudomonas a Pseudomonas a Pseudomonas a	eruginosa R31 eruginosa nan eruginosa nan	-555 +136 +54 -555 +136 +54 -655 +136 +54	+531 +135 +532 +531 +135 +532 +556 +135 +137
	Pseudomonas a Pseudomonas a Pseudomonas a	eruginosa F9676 eruginosa G-I-1 eruginosa TJ2019-017 ieruginosa nan eruginosa nan		457 +135 +137 430 +136 +137
	Pseudomonas a Pseudomonas a	eruginosa W60856 eruginosa E90 eruginosa CMC-097 eruginosa W36662 eruginosa H26027	+63 +136 +64	*135 *136 +526 *135 *135 +137
	Pseudomonas a Pseudomonas a	eruginosa C-NN2 nan eruginosa DVT423	**************************************	
	Pseudomonas a Pseudomonas a Pseudomonas a Pseudomonas a	eruginosa PALS2 eruginosa VA-134 eruginosa P16CT eruginosa c7447m C7447m eruginosa T52373 eruginosa YL84 eruginosa F23197	153	+135 +136 +137
	Pseudomonas a Pseudomonas a Pseudomonas a	eruginosa F23197 eruginosa SCAID WND3-2019 eruginosa H5708 eruginosa DVT427	+63 +136 +64 +63 +136 +64	457 - +136 - +137
	Pseudomonas a Pseudomonas a Pseudomonas a	eruginosa PABL017 teruginosa B18 teruginosa ACR20 teruginosa ACR22 eruginosa YB01		
	Pseudomonas a Pseudomonas a	eruginosa INP-43 eruginosa T63266 eruginosa IMP67 eruginosa IMP68 eruginosa PABL012	+73 +136 +64 +73 +136 +64 +74 +136 +764	-793 +136 +137 -430 +136 +137
	Pseudomonas a Pseudomonas a Pseudomonas a Pseudomonas a	eruginosa T2101 eruginosa AA2 eruginosa PA_150577 eruginosa M18	-657 +136 -606 -605 +136 +64	
	Pseudomonas a Pseudomonas a Pseudomonas a Pseudomonas a Pseudomonas a	eruginosa nan eruginosa nan eruginosa nan	-622 +136 +64 -623 +136 +64 -623 +136 +64 -623 +136 +64	
	Pseudomonas a Pseudomonas a Pseudomonas a	eruginosa nan eruginosa PABCH09 eruginosa PDNC003	-029 +136 +04 -029 +136 +04 -007 +136 -006 -007 +136 -006 -1217 +136 -04	
	Pseudomonas a Pseudomonas a	eruginosa LYSZa5 eruginosa LYSZa2 eruginosa DVT229 eruginosa NCTC10728 eruginosa SCVFeb eruginosa SCWFeb	-1217 +136 +84 -1217 +136 +84 +576 +136 +84	
	Pseudomonas a Pseudomonas a Pseudomonas a	eruginosa DK2 eruginosa AR_458 eruginosa PAAK088	-711 - +136 - +64	-711 =135 == +137
	Pseudomonas a Pseudomonas a	eruginosa A681 eruginosa DVT412 eruginosa 8380 eruginosa SJTD-1 eruginosa PA-VAP-2	-637 +136 +64	
0.0103739	Pseudomonas a Pseudomonas a Pseudomonas a	ieruginosa PA-VAP-Z ieruginosa SCV20265 eruginosa F63912 eruginosa RP73	-607 - +136 - +64	4135 4136 4137 457 4136 4137