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	seudomonas aerugino Pseudomonas aerugino Pseudomonas aerugino	osa CR1 osa AZPAE15042	+654 +655 +656 +654 +655 +656 +654 +655 +656	2 copies
Ps	Pseudomonas a Pseudomonas Pseudomonas	ruginosa CMC-115 eruginosa AR_0446 aeruginosa PA-VAP-4 : aeruginosa 401853	+654 +655 +656 +654 +865 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas	aeruginosa LICME WGH-6 aeruginosa IOMTU 133 aeruginosa AR_0095 aeruginosa M1608 aeruginosa M37351	+654 +655 +656 +654 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa L10 aeruginosa nan aeruginosa UCBPP-PA14 aeruginosa UCBPP-PA14 aeruginosa PA-VAP-3	+654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa H26023 aeruginosa JNQH-PA57 aeruginosa PA_D1 aeruginosa PA_D21	+654 +655 +656 +654 +665 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa PA_D5 aeruginosa PA_D22 aeruginosa PA_D16 aeruginosa PA5883 aeruginosa PA34	+654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656 +656 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa 60503 aeruginosa ST773 aeruginosa PSE6684 aeruginosa NCTC13715 aeruginosa NCGM1984	+654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa NCGM1900 aeruginosa E6130952 aeruginosa PB350 aeruginosa 243931	+654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa PA19-3047 aeruginosa FDAARGOS_571 aeruginosa AR_0354 aeruginosa FDAARGOS_501 aeruginosa B-I-1	+654 +655 +656 +654 +665 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa AR_0357 aeruginosa MRSN12280 aeruginosa 268 aeruginosa NCGM2.S1 aeruginosa SE5331	+654 +655 +656 +654 +655 +656 +654 +665 +656 +654 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa SE5352 aeruginosa 1903031130 aeruginosa GIMC5001:PAT-23 aeruginosa GIMC5002:PAT-169 aeruginosa CCUG 51971	+654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas	aeruginosa SE5458 aeruginosa SE5429 aeruginosa 24Pae112 aeruginosa Pa124 aeruginosa Pa127	+654 +655 +656 +654 +655 +656 +654 +665 +656 +654 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa nan aeruginosa nan aeruginosa PcyII-40 aeruginosa nan aeruginosa PASGNDM699	+654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa PASGNDM345 aeruginosa Pa58 aeruginosa AR_0353 aeruginosa Ocean-1155 aeruginosa Ocean-1175	+654 +655 +656 +654 +655 +656 +654 +655 +656 +655 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa C79 aeruginosa DN1 aeruginosa PPF-1 aeruginosa AR_455 aeruginosa AABL048	+654 +655 +656 +654 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa PABCH46 aeruginosa S04 90 aeruginosa NCGM257 aeruginosa nan aeruginosa AR_0440	+654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +665 +656 +654 +665 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa BA7823 aeruginosa AR_0443 aeruginosa SP4528 aeruginosa GIMC5034:PA52Ts32	+654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa SP4371 aeruginosa B17932 aeruginosa SP4527 aeruginosa B17932 aeruginosa GIMC5016:PA1840	+654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa PB369 aeruginosa PB368 aeruginosa DVT413 aeruginosa T2436 aeruginosa BAMCPA07-48	+654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656	1824 - +655 - +1574
	Pseudomonas a Pseudomonas a Pseudomonas a Pseudomonas a	aeruginosa K19PSE24 aeruginosa KC-Tt-1 aeruginosa JB2 aeruginosa MTB-1	+654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656	1020
	Pseudomonas a Pseudomonas a Pseudomonas Pseudomonas	eruginosa PA-VAP-1 ieruginosa B136-33 aeruginosa VRFPA04 aeruginosa 12939 aeruginosa TJ2014-049	+654 +655 +656 +654 +665 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656	
L	Pseudomonas a Pseudomonas a	: aeruginosa PAC6 aeruginosa PABCH10 aeruginosa LYSZa7 eruginosa LW ruginosa PA_154197	+654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656	
	Pseudomonas a Pseudomonas Pseudomonas Pseudomonas	eruginosa IMP-13 aeruginosa SCAID WND1-2019 aeruginosa SCAID PHRX1-2019 aeruginosa HOU1 i aeruginosa H47921	+654 +655 +656 +654 +655 +656 +654 +655 +656 +655 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa DVT410 aeruginosa AR_0360 aeruginosa DVT419 aeruginosa AR444	+654 +655 +656 +654 +665 +656 +654 +665 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa AR_0110 aeruginosa AR_0111 aeruginosa AR_0230 aeruginosa PA83 aeruginosa CDN118	+654 +655 +656 +654 +665 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa K34-7 aeruginosa CDN129 aeruginosa AR_460 aeruginosa PA1RG aeruginosa PA1	+654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa PA1R aeruginosa MS14403 aeruginosa CCBH4851 aeruginosa PA1088 aeruginosa 213BR	+654 +655 +656 +654 +655 +656 +655 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa PA11803 aeruginosa PA8281 aeruginosa PA7790 aeruginosa 19BR	+654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656	
	Pseudomona Pseudomonas Pseudomonas	aeruginosa PA298 s aeruginosa PA1242 s aeruginosa WCHPA075019 aeruginosa 519119 s aeruginosa Y71 s aeruginosa Y89	+654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa E80 aeruginosa Pa84 aeruginosa Y31 aeruginosa LYT4	+654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas	aeruginosa N17-1 aeruginosa C-I-1 aeruginosa PRD-10 aeruginosa FDAARGOS_610 aeruginosa TJ2019-022	+654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa NCTC10332 aeruginosa DSM 50071 = NBRC 12689 aeruginosa A17CT aeruginosa ATCC 15692 aeruginosa GIMC5015:PAKB6	+654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa FDAARGOS_767 aeruginosa P16PBS aeruginosa MPAO1 aeruginosa PAO1PBS aeruginosa P4CT	+654 +655 +656 +654 +665 +656 +654 +665 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa UAB2PBS aeruginosa LIUYANG-C aeruginosa PA0750 aeruginosa PAO1	+654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa PAO1 aeruginosa PAO1-VE2 aeruginosa PAO1161 aeruginosa PAO581 aeruginosa PAO1_Orsay	+654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa LIUYANG-E aeruginosa LIUYANG-A aeruginosa W16407 aeruginosa PAC1 aeruginosa SE5357	+654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas a Pseudomonas a	as aeruginosa FDAARGOS_570 aeruginosa LV seruginosa AR442 seruginosa DHS01 DH01 seruginosa CCUG 70744	+654 +655 +656 -988 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa 1811-13R031 aeruginosa Carb01 63 aeruginosa RIVM-EMC2982 aeruginosa AG1	+654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa Y82 aeruginosa A-I-1 aeruginosa AR445 aeruginosa nan aeruginosa FRD1	+654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa F30658 aeruginosa DL201330 aeruginosa F5677 aeruginosa nan aeruginosa 97	+654 +655 +656 +654 +665 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa 1334/14 aeruginosa SCAID WND2-2019 aeruginosa N15-01092 aeruginosa 152962 aeruginosa Y112746	+654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa YTSEY8 aeruginosa DVT425 aeruginosa 12-4-4(59) aeruginosa DVT401 aeruginosa Paer4_119	+654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa PA59 aeruginosa C7-25 aeruginosa FA-HZ1 aeruginosa HS9 aeruginosa KRP1	+654 +655 +656 +654 +655 +656 +654 +655 +656 +655 +656 +655 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa W45909 aeruginosa nan aeruginosa DVT729 aeruginosa PABCH05	+654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa USDA-ARS-USMARC-4163 aeruginosa NCTC11445 aeruginosa PABCH13 aeruginosa SE5443 aeruginosa PAG5	+654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa NRD619 aeruginosa PARM801 aeruginosa PB353 aeruginosa PB354 aeruginosa X78812	+654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656	-605 +655 -662
	Pseudomonas Pseudomonas Pseudomonas	aeruginosa RD1-3 aeruginosa DVT421 aeruginosa LESB58 aeruginosa LES400 aeruginosa LESB65	+654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa LES431 aeruginosa LESlike1 aeruginosa LESlike5 aeruginosa LESlike7 aeruginosa LESlike4	+654 +655 +656 +654 +655 +656 +654 +655 +656 +655 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa mPA08-31 aeruginosa AES1M aeruginosa AES1R aeruginosa SES416 aeruginosa DVT417	+654 +655 +656 +654 +655 +656 +654 +655 +656 +655 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa DVT414 aeruginosa DVT779 aeruginosa PA3 aeruginosa PAK	+654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa PAK aeruginosa ATCC 27853 aeruginosa ATCC 27853 aeruginosa FDAARGOS_1041 aeruginosa NCTC12903	+654 +655 +656 +654 +665 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa PABCH14 aeruginosa PABCH14 aeruginosa S6968 aeruginosa T38079 aeruginosa F9670	+654 +655 +656 +654 +665 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas	aeruginosa PABCH01 aeruginosa FDAARGOS_505 aeruginosa PABCH42 aeruginosa SE5369 aeruginosa AR439	+654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas	aeruginosa FDAARGOS_532 aeruginosa PAAK095 aeruginosa P22031 aeruginosa H27930 aeruginosa PA121617	+654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa PcyII-29 aeruginosa CF39S aeruginosa CF5AN084950 aeruginosa YD001 aeruginosa JT86	+654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa R31 aeruginosa nan aeruginosa nan aeruginosa F9676 aeruginosa G-I-1	+654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa TJ2019-017 aeruginosa nan aeruginosa nan aeruginosa W60856	+654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa E90 aeruginosa CMC-097 aeruginosa W36662 aeruginosa H26027 aeruginosa C-INI2 nan	+654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa DVT423 aeruginosa PACS2 aeruginosa VA-134 aeruginosa P16CT aeruginosa c7447m C7447m	+654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa T52373 aeruginosa YL84 aeruginosa F23197 aeruginosa SCAID WND3-2019 aeruginosa H5708	+654 +655 +656 +654 +655 +656 +654 +665 +656 +654 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa DVT427 aeruginosa PABL017 aeruginosa B18 aeruginosa ACR20 aeruginosa ACR22	+654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa ACR22 aeruginosa YB01 aeruginosa INP-43 aeruginosa T63266 aeruginosa IMP67 aeruginosa IMP68	+654 +655 +656 +654 +665 +656 +654 +665 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa PABL012 aeruginosa T2101 aeruginosa AA2 aeruginosa PA_150577	+654 +655 +656 +654 +665 +656 +654 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa M18 aeruginosa nan aeruginosa nan aeruginosa nan aeruginosa nan	+654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa nan aeruginosa nan aeruginosa PABCH09 aeruginosa PDNC003 aeruginosa LYSZa5	+654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa LYSZa2 aeruginosa DVT429 aeruginosa NCTC10728 aeruginosa SCVFeb aeruginosa NHmuc	+654 +655 +656 +654 +655 +656 +654 +665 +656 +654 +655 +656 +654 +655 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa AR_458 aeruginosa PAAK088 aeruginosa A681 aeruginosa DVT412	+654 +655 +656 +654 +655 +656 +654 +655 +656 +654 +665 +656 +654 +665 +656	
	Pseudomonas Pseudomonas Pseudomonas Pseudomonas	aeruginosa 8380 aeruginosa SJTD-1 aeruginosa PA-VAP-2	+654 +655 +656 +654 +655 +656 +654 +665 +656 +664 +665 +656 +664 +655 +656 +654 +655 +656	
0.0103739	Pseudomonas	aeruginosa F63912 aeruginosa RP73	+654 +655 +656	