Link to open the web page for ARG-ANNOT: <u>http://www.mediterranee-infection.com/article.php?laref=282&titre=arg-annot</u> C www.mediterranee-infection.com/article.php?laref=282&titre=arg-annot 53 Ξ -× **POLE HOSPITALIER &** MICROBIOLOGIE & NEW GENOMES, MICROBES FORMATION S ET INDICATEURS DE ESPACE QUI SOMMES-NOUS ? VALORISATION PRESSE PRÉVENTION RECRUTEMENT SCIENCES HUMAINES & INFECTIONS PERFORMANCES Accueil > Microbiologie & Sciences Humaines > Base de données > ARG-ANNOT **ARG-ANNOT MÉDITERRANÉE** INFECTION W Antibiotic Resistance Gene-ANNOTation ARG-ANNOT (Antibiotic Resistance Gene-ANNOTation) is a new tool that was created to detect existing and putative new antibiotic resistance (AR) genes in bacterial genomes. ARG-ANNOT uses a local blast program in Bio-Edit software that allows the user to analyze sequences without web interface. Les équipes de recherche Les plateformes Screenshot for help Thématiques clés & découvertes Database sequence file Base de données MST Mycobacterium avium Link to download BioEdit **URMS** Database Tutorial ARG-ANNOT Sciences Humaines & Sociales

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1- Download of the BioEdit



Download BioEdit.zip and install setup.exe file

9	BioEdit.zip (Full install)
	Bug fixes / changes
ľ	BioEdit General information
	BioDoc.pdf (pdf format help doc)
	View Screenshots

BioEdit is a biological sequence alignment editor written for Windows 95/98/NT/2000/XP/7. An intuitive multiple document interface with convenient features makes alignment and manipulation of sequences relatively easy on your desktop computer. Several sequence manipulation and analysis options and links to external analysis programs facilitate a working environment which allows you to view and manipulate sequences with simple point-and-click operations.

BioEdit's features include:

- Several modes of hand alignment
- Automated ClustalW alignment
- Automated Blast searches (local and WWW)
- Plasmid drawing and annotation
- Accessory application configuration
- Restriction mapping

- · RNA comparative analysis tools
- Graphical matrix data viewing tools
- Shaded alignment figures
- Translation-based nucleic acid alignment
- · ABI trace viewing, editing and printing
- Customizable ... other features

Note: BioEdit is no longer being regularly maintained, and the documentation is out of date and no longer maintained. BioEdit is free for use by any and all interested parties, but is supplied as is. Users must agree with the terms of the license.

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Enter disease, therapy or topic and click Search: 2) Tips

Search



Software Informer

Current version 7.2.1 Last updated 8/27/2013 Tom Hall <u>Thomas Hall@abbott.com</u>

2- After installing the BioEdit on your PC. Open the BioEdit () to create local nucleotide database

BioEd	it Sequence Alignment Editor	the state of the s
A	Add / Remove / Modify an Accessory Application	
2	BLAST	Local BLAST
	CAP contig assembly program	NCBI BLAST over the Internet
	DNADist> Neighbor phylogenetic tree	Create a local protein database file
	DNADist DNA distance matrix	3 Create a local nucleotide database file
	DNAml DNA Maximum Likelihood program	
	DNAmlk DNA Maximum Likelihood program with molecular clock	
	DNAPars DNA parsimony method	
	FastDNAml DNA maximum likelihood	
	Fitch Fitch-Margoliash and Least-Squares Distance Methods	
	Kitsch Fitch-Margoliash and Least Squares Methods with Evolutionary Clock	
	NEIGHBOR Neighbor-Joining and UPGMA methods	
	ProML Protein Maximum Likelihood program	
	Protdist> Fitch phylogenetic tree	
	Protdist> Neighbor phylogenetic tree	
	Protdist protein distance matrix	
	Protpars protein parsimony method	

Navigate the database file from the PC and create local nucleotide database file. Database for amino acids can be created in similar manner.

3- To perform blast follow the steps:

-	Sory Application DRIVA World Wide Web Options Window Heip	
	Add / Remove / Modify an Accessory Application	
(BLAST	Gocal BLAST
	CAP contig assembly program	NCBI BLAST over the Internet
	DNADist> Neighbor phylogenetic tree	Create a local protein database file
	DNADist DNA distance matrix	Create a local nucleotide database file
	DNAml DNA Maximum Likelihood program	
	DNAmlk DNA Maximum Likelihood program with molecular clock	
	DNAPars DNA parsimony method	
	FastDNAml DNA maximum likelihood	
	Fitch Fitch-Margoliash and Least-Squares Distance Methods	
	Kitsch Fitch-Margoliash and Least Squares Methods with Evolutionary Clock	
	NEIGHBOR Neighbor-Joining and UPGMA methods	
	ProML Protein Maximum Likelihood program	
	Protdist> Fitch phylogenetic tree	
	Protdist> Neighbor phylogenetic tree	
	Protdist protein distance matrix	
	Protpars protein parsimony method	

Follow the steps 1, 2 and 3 for opening the window for the Blast.

4- Criteria for blast

NCBI Local BLAST	
BLAST is government software obtained from t	he NCBI. For reference see:
Altschul, Stephen F., Thomas L. Madden, Aleja Webb Miller, and David J. Lipman (1997), "Gap of protein database search programs", Nucleic.	andro A. Schaffer, Jinghui Zhang, Zheng Zhang, oped BLAST and PSI-BLAST: a new generation Acids Res. 25:3389-3402.
Program: blastn 💽 Nucleotide D	Databa AAARG22082013.txt
Protein Data	abase: AA-ARG.txt
Query: Paste the secu	hences 3
Darts From Clink and	
Paste From Clipboard	Alternatively sequences can also be pasted in this
3 Load From File	box for Blast
Output file name	Specify (default = file opened but not saved)
Citer converses for low complexity regions	
 Price sequences to now-complexity regions Do Gapped BLAST (not available for tblastx) 	
Show Gi's in deflines	
May number of hits to report	Effective database size 0 (0 = real size)
Max number of alignments to show 250	
Threshold for extending hit	
Additional parameter	
Warning! The complete combined command lin Under DOS. Thave not yet found a way around	e (including file paths and auto-set paramters) cannot excedd 128 characters d this. If the program doesn't run, try saving the guery file to C:\Temp first.
Usage	
blastall arguments:	A
-p Program Name [String] (set	t internally with BioEdit)
-d Database [String] (set in	nternally with BioEdit)
-i Query file [file in] (set	Thermally with Blocalt)
J • C	
6 Do Search Dismiss	BLAST release notes NCBI BLAST help

5- Blast Output:

File Edit Format Accesory Application	tion RNA World Wide Web Options Wind	low He	lp									
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gi 480129356 gb APRF01000025.1	(Bla) TEM-60: AF047171: 136-996: 861 98	8.84 8	61	10	0	18680	19540	1	861	0.0	1628	
gi 480129356 gb APRF01000025.1	(Bla) TEM-89:AY039040:189-1022:861 99	9.52 8	34	4	0	18680	19513	1	834	0.0	1622	
gi 480129356 gb APRF01000025.1	(AGly)Aph3''Ia:FJ172370:38668-39483:	816 1	00.00	816	0	0	25314	26129	816	1	0.0	1618
gi 480129356 gb APRF01000025.1	(Bla) TEM-162:EF468463:67-927:861 98	8.61 8	61	12	0	18680	19540	1	861	0.0	1612	
gi 480129356 gb APRF01000025.1	(Bla) TEM-102: AY029354: 3-833: 831 99	9.64 8	23	3	0	18688	19510	9	831	0.0	1608	
gi 480129356 gb APRF01000025.1	(Bla) TEM-124: AY327540:1-858:858 98	8.49 8	61	10	1	18680	19540	1	858	0.0	1600	
gi 480129356 gb APRF01000025.1	(Bla) TEM-193: JN935135:1-861:861 98	8.26 8	61	15	0	18680	19540	1	861	0.0	1588	
gi 480129356 gb APRF01000025.1	(Bla)TEM-26B:L19940:198-1006:861 99	9.75 8	09	2	0	18680	19488	1	809	0.0	1588	
gi 480129356 gb APRF01000025.1	(Bla)TEM-10:U09188:198-1005:858 99	9.75 8	80	2	0	18680	19487	1	808	0.0	1586	
gi 480129356 gb APRF01000025.1	(AGly) AadA1-pm: JQ690540: 7968-8798:83	31 99	9.88	802	1	0	30238	31039	30	831	0.0	1582
gi 480129356 gb APRF01000025.1	(AGly)Aph3-Ia:HQ840942:23569-24384:8	16 9	9.26	814	6	0	25316	26129	814	1	0.0	1566
gi 480129356 gb APRF01000025.1	(Bla) TEM-194: JN935136:1-861:861 97	7.91 8	61	18	0	18680	19540	1	861	0.0	1564	
gi 480129356 gb APRF01000025.1	(Bla) TEM-178:X97254:154-1011:858 97	7.91 8	62	13	3	18680	19540	1	858	0.0	1546	
gi 480129356 gb APRF01000025.1	(Bla) TEM-1: JQ735917:1-861:861 99	9.14 8	10	6	1	18680	19488	1	810	0.0	1542	
gi 480129356 gb APRF01000025.1	(Bla) TEM-118: AY130285: 1-785: 785 99	9.75 7	85	2	0	18716	19500	1	785	0.0	1540	
gi 480129356 gb APRF01000025.1	(Bla) TEM-110: AY130283: 1-785: 785 99	9.75 7	85	2	0	18716	19500	1	785	0.0	1540	
gi 480129356 gb APRF01000025.1	(Bla) TEM-7: AF527798: 1-785: 785 99	9.75 7	85	2	0	18716	19500	1	785	0.0	1540	
gi 480129356 gb APRF01000025.1	(Bla) TEM-75:AY130284:1-785:785 99	9.62 7	85	3	0	18716	19500	1	785	0.0	1532	
gi 480129356 gb APRF01000025.1	(AG1y)AadA1b:JN596991:1364-2155:792	9	9.37	792	5	0	30248	31039	1	792	0.0	1530
gi 480129356 gb APRF01000025.1	(AGly)AadA1:M95287:3320-4111:792 99	9.37 7	92	5	0	30248	31039	1	792	0.0	1530	
gi 480129356 gb APRF01000025.1	(Bla) TEM-117:AY130282:1-764:764 99	9.61 7	64	3	0	18716	19479	1	764	0.0	1491	
gi 480129356 gb APRF01000025.1	(Bla) TEM-191: JF949916:1-757:757 99	9.34 7	57	5	0	18710	19466	1	757	0.0	1461	
gi 480129356 gb APRF01000025.1	(Bla) TEM-192: JF949915:1-754:754 99	9.34 7	54	5	0	18710	19463	1	754	0.0	1455	
gi 480129356 gb APRF01000025.1	(AGly) AadA22: AM261837: 74-865: 792 97	7.47 7	92	20	0	30248	31039	1	792	0.0	1411	
gi 480129356 gb APRF01000025.1	(AGly)AadA23:AJ809407:119-898:781 98	8.42 7	59	12	0	30281	31039	22	780	0.0	1409	
gi 480129356 gb APRF01000025.1	(AGly) AadA21:AY171244:47-838:792 97	7.35 7	92	21	0	30248	31039	1	792	0.0	1403	
gi 480129356 gb APRF01000025.1	(AGly)AadA15:DQ393783:1800-2591:792	9'	7.04	777	23	0	30248	31024	1	777	0.0	1358
gi 480129356 gb APRF01000025.1	(Phe)CatA1:V00622:244-903:660 99	9.85 6	60	1	0	13125	13784	660	1	0.0	1300	
gi 480129356 gb APRF01000025.1	(Tet) TetR: HF545434: 53576-54226: 65110	00.00 6	51	0	0	7324	7974	651	1	0.0	1291	
g1 480129356 gb APRF01000025.1	(AG1y)AadA12:AY665771:1-792:792 94	4.85 7	77	40	0	30248	31024	1	777	0.0	1223	
gi 480129356 gb APRF01000025.1	(AG1y)AadA17:FJ460181:774-1565:79293	3.82 7	77	48	0	30248	31024	1	777	0.0	1160	
g1 480129356 gb APRF01000025.1	(AG1y)AadA24:HQ123586:88-768:781 93	3.44 7	78	51	0	30260	31037	1	778	0.0	1138	
g1 480129356 gb APRF01000025.1	(AGIy) AadA11:AJ567827:1-792:792 93	3.04 7	90	55	0	30248	31037	1	790	0.0	1130	
g1 480129356 gb APRF01000025.1	(AGIY) AadA8b:AM040708:1174-1965:792	92	2.55	792	59	0	30248	31039	1	792	0.0	1102
g1 480129356 gb APRF01000025.1	(AGIY) ABDA8: AF326210:1-792:792 92	2.05 7	92	63	0	30248	31039	1	792	0.0	1070	
g1 480129356 gD APRE01000025.1	(Sul)Sull:AF0/1413:6700-7539:840 10	00.00 5	21	0	0	1	521	320	840	0.0	1033	
g1 480129356 gD APRE01000025.1	(Sul)Sull:AF071413:6700-7539:840 10		95	0	0	31544	32038	1	495	0.0	981	
g1 480129356 [gD [APRF01000025.1]	(AGTY) ABC3-1:X15652:1250-1783:534 99	5.00 5.	04	3	0	200/1	29204	1	534	0.0	1019	
g1 480129356 gD APRE01000025.1	(AGIY) AddA3: AF04/4/9:1296-208/:792 90	0.05 7	92	70	0	30248	31039	12	792	0.0	975	
g1 480129356 [gD]APRF01000025.1]	(AGIY) ABDAI3: AI/13504:1-798:798 89	9.95 /	10	76	0	30260	31035	13	766	0.0	920	
g1 480129556 gb APRE01000025.1	(AG1y) AadA2: A0622/:00-945:/60 90	.40 /	14 2 2 4	11	36	0281	29740	20204	105	465	912	626
g1 400129556 [gb] AERF01000025.1]	(AGIY) Adc3=1:A087/225:5295=5757:465	9.	2.20	400	30	0	20740	29204	1	400	0.0	000

Select and copy the blast output and paste in the XL-sheet.

6- Blast analysis:

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A1 C B C D E F G H J K L 2 [1480132254] [b] ARR0100008.1 [am:se_class-A].NC_010410.2507740 100.00 1275 0 0 5152*** 052*** 052**** 052*** 052*** 052*** 052*** 052*** 052*** 052*** 000 2527 1 0.0 2527 1 0.0 2527 1 0.0 2527 1 0.0 2527 1 0.0 2527 1 0.0 1255 1 0.0 1255 1 0.0 1635 1 0.0 1635 1 0.0 1528 1 0.0 1528 1 0.0 1528 1 0.0 1528 1 0.0 1528 1 0.0 1528 1 0.0 1528 1 0.0 1528 1 0.0 1528 1 0.0 1528 1 0.0 1528 1 0.0 1528 1 <th>À partir du À partir du À p fichier Access site Web du</th> <th>partir À partir d'au texte sources *</th> <th>tres Connexions existantes Actuali</th> <th>Proprie Proprie Ser So Modifi</th> <th>xions étés er les liens d'accès dons</th> <th>A Z↓ ZA Z↓ Trier</th> <th>Filt</th> <th>trer</th> <th>Effacer Réappliq Avancé</th> <th>uer c</th> <th>2 onvertir</th> <th>Supprimer es doublon</th> <th>Validation o s données Outils de don</th>	À partir du À partir du À p fichier Access site Web du	partir À partir d'au texte sources *	tres Connexions existantes Actuali	Proprie Proprie Ser So Modifi	xions étés er les liens d'accès dons	A Z↓ ZA Z↓ Trier	Filt	trer	Effacer Réappliq Avancé	uer c	2 onvertir	Supprimer es doublon	Validation o s données Outils de don
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Oursy id Outsy id Outsy id Outsy id Outsy id Other is as A):NC_010410:2507740 Mismatches Gap OSF** OSE** OSE*** OSE*** C-NOL g1 480132254 (g) IAPRF01000008.1 (g) (B):OXA-69.X7750911.1-825.825 100.00 825 0 645518 646342 825 1 0.0 1628 g1 480132254 (g) IAPRF01000008.1 (g) (B):OXA-122.FES0038.1-825.825 99.88 825 1 0 645518 646342 825 1 0.0 1628 g1 480132254 (g) IAPRF01000008.1 (g) (B):OXA-127.EFS0038.1-825.825 99.88 825 1 0 645518 646342 825 1 0.0 1628 g1 480132254 (g) IAPRF01000008.1 (g):OXA-107.EFS0037.1-825.825 99.88 825 1 0 645518 646342 825 1 0.0 1628 g1 480132254 (g) IAPRF01000008.1 (g):OXA-20.EFS63771.1-825.825 99.88 825 1 0 645518 646342 825 1 0.0 1628 g1 480132254 (g) IAPRF01000008.1 (g):OXA-20.EFS63771.1-825.825 98.91 8	A		В	C	D	E	F	G	Н	1	J	K	L
2 2 1440132254 (g) APRF0100008.1 (g) (G) (MX-89X79011.4325.825 100.0 275 0 0 315294 316568 1275 1 0.0 2527 3 1440132254 (g) APRF0100008.1 (g) (G) (MX-89X79011.4325.825 99.88 825 1 0 645518 646342 825 1 0.0 1628 5 g1 440132254 (g) APRF0100008.1 (g) (G) (MX-1012FF50061.425.825 99.88 825 1 0 645518 646342 825 1 0.0 1628 6 g1 440132254 (g) APRF0100008.1 (g) (G) (MX-102FF50031-425.825 99.88 825 1 0 645518 646342 825 1 0.0 1628 9 g1 480132254 (g) APRF0100008.1 (g) (G) (MA-202 (G) 3856-1425.825 99.88 825 1 0.0 1628 9 g1 480132254 (g) APRF0100008.1 (g) (G) (MA-202 (G) 3856-1425.825 99.88 825 1 0.0 1628 9 18 8125 1 0 645518 646342 825 1 0.0 1628 10 </td <td>1 Query id</td> <td></td> <td>Database id</td> <td>% Identity</td> <td>Alignment length</td> <td>Mismatches</td> <td>Gap</td> <td>QSS*</td> <td>QSE**</td> <td>DSS***</td> <td>DSE****</td> <td>e-value</td> <td>Bit score</td>	1 Query id		Database id	% Identity	Alignment length	Mismatches	Gap	QSS*	QSE**	DSS***	DSE****	e-value	Bit score
3 g1 440132254 gb 1APRF0100008.11 (B1a)(XA-263+HC50751-125.25.25 100.00 825 0 0 645518 646322 825 1 0.0 1635 5 g1 480132254 gb 1APRF0100008.11 (B1a)(XA-243+HC50751-125.25.25 99.88 825 1 0 645518 646322 825 1 0.0 1628 7 q1 480132254 gb 1APRF0100008.11 (B1a)(XA-112:FF550033:1-825.25 99.88 825 1 0 645518 646342 825 1 0.0 1628 9 q1 480132254 gb 1APRF01000008.11 (B1a)(XA-250:HE563771:1-825.825 99.88 825 1 0.0 1528 9 q1 480132254 gb 1APRF01000008.11 (B1a)(XA-120:HE56378:1-825.825 99.87 825 2 0 645518 646342 825 1 0.0 1544 12 q1 480132254 gb 1APRF01000008.11 (B1a)(XA-450:HE563781:1-825.825 98.55 825 12 0 645518 646342 825 1 0.0 1534 12 q1 480132254 g	2 gi 480132254 gb APRF010	000008.1 amase_c	lass-A):NC_010410:2507740	100.00	1275	0	0	315294	316568	1275	1	0.0	2527
4 e1 400132254 gb JAPR0100008.1 (Bia)OXA-124.8F663769:1-825.825 99.88 825 1 0 645518 646322 825 1 0.0 1628 5 g1 480132254 gb JAPR0100008.1 (Bia)OXA-110:EF6500361:825.825 99.88 825 1 0 645518 646322 825 1 0.0 1628 7 g1 480132254 gb JAPR0100008.1 (Bia)OXA-110:EF6500351:825.825 99.88 825 1 0 645518 646322 825 1 0.0 1628 9 g1 480132254 gb JAPR01000008.1 (Bia)OXA-250:HE663771:825.825 99.88 825 1 0.0 1564 11 g1 480132254 gb JAPR01000008.1 (Bia)OXA-260:HE663771:825.825 98.55 825 12 0 645518 64632 825 1 0.0 1564 12 g1 480132254 gb JAPR01000008.1 (Bia)OXA-65:AY7509861:825.825 98.55 825 12 0 645518 646324 825 1 0.0 1532 13 g1 480132254 gb JAPR01000008.1 (Bia)OXA-65:AY7509861:825.825 98.55 825 1	3 gi 480132254 gb APRF010	000008.1 (Bla)O	XA-69:AY750911:1-825:825	100.00	825	0	0	645518	646342	825	1	0.0	1635
5 e1400132254 [c) APRF01000008.11 [Bia]OXA-112:EF650038.1-823:825 99.88 825 1 0 645318 646342 825 1 0.0 1528 7 g1480132254 [c) APRF01000008.11 [Bia]OXA-107:EF650033.1-825:825 99.88 825 1 0 645318 646342 825 1 0.0 1528 8 g1440132254 [c) IAPRF01000008.11 [Bia]OXA-20C1955661-423:825 99.88 825 1 0 645318 646342 825 1 0.0 1528 9 g1440132254 [c) IAPRF01000008.11 [Bia]OXA-20C19567711-825:825 99.55 825 12 0 645318 646342 825 1 0.0 1540 14 g1480132254 [c) IAPRF01000008.11 [Bia]OXA-802198763-833825 98.42 825 13 0 645318 646342 825 1 0.0 1532 15 g1480132254 [c) IAPRF01000008.11 [Bia]OXA-910219089-933825 98.42 825 13 0 645318 646342 825 1 0.0 1532 16 g1440132254 [c) IAPRF	4 gi 480132254 gb APRF010	000008.1 (Bla)OX	(A-248:HE963769:1-825:825	99.88	825	1	0	645518	646342	825	1	0.0	1628
6 ei H40132254 (b) APRF01000008.1 (b) APRF0100008.1 (b) (b) (CA-110:EF650031:423:825 99.88 825 1 0 645318 646342 825 1 0.0 1628 8 g 440132254 (b) APRF01000008.1 (b) (CA-92:DQ335566:1-825:825 99.88 825 1 0 645518 646342 825 1 0.0 1628 9 g 440132254 (b) APRF01000008.1 (b) (CA-92:DQ335566:1-825:825 99.76 825 2 0 645518 646342 825 1 0.0 1528 10 g 440132254 (b) APRF01000008.1 (b) (CA-92:D(F637681:425:825 98.55 825 12 0 645518 646342 825 1 0.0 1540 12 g 440132254 (b) APRF01000008.1 (b) (CA-95:DY5098:4-825:825 98.55 825 12 0 645518 646342 825 1 0.0 1540 14 g 440132254 (b) APRF01000008.1 (b) (CA-95:DY5098:4-83:825 98.53 825 13 0 645518 646342 825 1 0.0 1532 14 g	5 gi 480132254 gb APRF010	000008.1 (Bla)O	KA-112:EF650038:1-825:825	99.88	825	1	0	645518	646342	825	1	0.0	1628
7 e1480132254 gb) APRF01000008.1 (Ba)OXA-107:EF50033.1:e23:825 99.88 825 1 0 645518 646342 825 1 0.0 1628 8 g1480132254 gb) APRF01000008.1 (Bia)OXA-20:04585661-825:825 99.88 825 1 0 645518 646342 825 1 0.0 1628 9 g1480132254 gb) APRF01000008.1 (Bia)OXA-120:HE9637811:425:825 99.85 825 12 0 645518 646342 825 1 0.0 1540 13 g1480132254 gb) APRF01000008.1 (Bia)OXA-85:N750981:425:825 98.55 825 12 0 645518 646342 825 1 0.0 1540 14 g1480132254 gb) APRF01000008.1 (Bia)OXA-85:N750981:425:825 98.55 825 12 0 645518 646342 825 1 0.0 1532 14 g1480132254 gb) APRF01000008.1 (Bia)OXA-91:0051908-9:433:825 98.42 825 13 0 645518 646342 825 1 0.0 1532 15 g1440132254 gb) APRF01000008.1 (Bia)OXA-91:0051908-3138:825	6 gi 480132254 gb APRF010	000008.1 (Bla)O	KA-110:EF650036:1-825:825	99.88	825	1	0	645518	646342	825	1	0.0	1628
8 ei (480132254 gb) APRF0100008.11 (Bia)(XA-92:D0335565:1-825.825 99.88 825 1 0 645518 646342 825 1 0.0 1628 9 gi (480132254 gb) APRF0100008.11 (Bia)(XA-92:D-R853176:1-825.825 99.76 825 2 0 645518 646342 825 1 0.0 1560 10 gi (480132254 gb) APRF0100008.11 (Bia)(XA-92:D-R853176:1-825.825 98.55 825 12 0 645518 646342 825 1 0.0 1540 13 gi (480132254 gb) APRF01000008.11 (Bia)(XA-92:D0519089-833825 98.42 825 13 0 645518 646342 825 1 0.0 1532 15 gi (480132254 gb) APRF01000008.11 (Bia)(XA-91:D0519089-833825 98.42 825 13 0 645518 646342 825 1 0.0 1532 16 gi (480132254 gb) APRF01000008.11 (Bia)(XA-91:D0519086:1192-9023.821 98.42 825 13 0 645518 646342 825 1 0.0 1532 17	7 gi 480132254 gb APRF010	000008.1 (Bla)O)	KA-107:EF650033:1-825:825	99.88	825	1	0	645518	646342	825	1	0.0	1628
9 ei (480132254) gb APRF01000008.1] (Bia) OXA-250.HE9637781:1-825.825 99.76 825 9 0 645518 646342 825 1 0.0 1564 10 gi 480132254) gb APRF01000008.1] (Bia) OXA-120.HE9637681:825.825 98.55 825 12 0 645518 646342 825 1 0.0 1544 12 gi 480132254) gb APRF01000008.1] (Bia) OXA-65:AV7509081:825.825 98.55 825 12 0 645518 646342 825 1 0.0 1540 13 gi 480132254 gb APRF01000008.1] (Bia) OXA-65:AV7509081:825.825 98.55 825 13 0 645518 646342 825 1 0.0 1532 15 gi 480132254 gb APRF01000008.1] (Bia) OXA-91:DO519086-1199-203.825 98.30 825 14 0 645518 646342 825 1 0.0 1532 16 gi 480132254 gb APRF01000008.1] (Bia) OXA-100:HM5700371:825.825 98.30 825 14 0 645518 646342	8 gi 480132254 gb APRF010	000008.1 (Bla)O	XA-92:DQ335566:1-825:825	99.88	825	1	0	645518	646342	825	1	0.0	1628
10 gi 480132254 gb APRF01000008.1 (Bia)0XA-208:FR8531761-825:825 98.91 825 9 0 645518 646342 825 1 0.0 1540 12 gi 480132254 gb APRF01000008.1 (Bia)0XA-208:FR8531761-825:825 98.55 825 12 0 645518 646342 825 1 0.0 1540 13 gi 480132254 gb APRF01000008.1 (Bia)0XA-65:AY7509081:425:825 98.55 825 12 0 645518 646342 825 1 0.0 1540 14 gi 480132254 gb APRF01000008.1 (Bia)0XA-95:DQ519089-83:825 98.42 825 13 0 645518 646342 825 1 0.0 1532 16 gi 480132254 gb APRF01000008.1 (Bia)0XA-91:DQ519086:1199-2023:825 98.30 825 14 0 645518 646342 825 1 0.0 1532 17 gi 480132254 gb APRF01000008.1 (Bia)0XA-91:DQ519086:128:52825 98.30 825 14 0 645518 646342 825 1 0.0 1524 18 gi 480132254 gb APRF01000008.1 (Bia)0XA-717:N6342421:425:825 98.30 <	9 gi 480132254 gb APRF010	000008.1 (Bla)OX	(A-250:HE963771:1-825:825	99.76	825	2	0	645518	646342	825	1	0.0	1620
11 gi 480132254 gb APRF0100008.1 (Bia)OXA-282:FA253176:-825:825 98.55 825 12 0 645518 646342 825 1 0.0 1540 12 gi 480132254 gb APRF0100008.1 (Bia)OXA-65:AV759089-833:825 98.55 825 12 0 645518 646342 825 1 0.0 1540 14 gi 480132254 gb APRF0100008.1 (Bia)OXA-65:AV759089-833:825 98.42 825 13 0 645518 646342 825 1 0.0 1532 15 gi 480132254 gb APRF0100008.1 (Bia)OXA-91:DO519086:1992023:825 98.42 825 14 0 645518 646342 825 1 0.0 1532 17 gi 480132254 gb APRF01000008.1 (Bia)OXA-180:HM570036:1-825:825 98.30 825 14 0 645518 646342 825 1 0.0 1524 19 gi 480132254 gb APRF01000008.1 (Bia)OXA-180:HM570340:1-825:825 98.30 825 14 0 645518 646342 825 1 0.0 1524 19 gi 480132254	10 gi 480132254 gb APRF010	000008.1 (Bla)OX	(A-120:HE963768:1-825:825	98.91	825	9	0	645518	646342	825	1	0.0	1564
12 gi 480132254 gb APRF01000008.1 (B a) (XA-482:0239263:9-833.825 98.55 825 12 0 645518 646342 825 1 0.0 1540 13 gi 480132254 gb APRF01000008.1 (B a) (XA-65:AY750908:1-825:825 98.55 825 12 0 645518 646342 825 1 0.0 1532 15 gi 480132254 gb APRF01000008.1 (B a) (XA-95:0X750908:1-825:825 98.42 825 13 0 645518 646342 825 1 0.0 1532 16 gi 480132254 gb APRF01000008.1 (B a) (XA-95:0X1-825:825 98.30 825 14 0 645518 646342 825 1 0.0 1524 19 gi 480132254 gb APRF01000008.1 (B a) (XA-64:AY750907:1-825:825 98.30 825 14 0 645518 646342 825 1 0.0 1524 19 gi 480132254 gb APRF01000008.1 (B a) (XA-217:JN603240:1-825:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 21 gi 480132254 gb APRF01000008.1 (B a) (XA-130:EU547445:1-825:825 98.18	11 gi 480132254 gb APRF010	000008.1 (Bla)OX	(A-208:FR853176:1-825:825	98.55	825	12	0	645518	646342	825	1	0.0	1540
13 gi 480132254 gb APRF01000008.1 (Bia) 0XA-65.AY750908:1-825:825 98.42 825 13 0 645518 646342 825 1 0.0 1532 14 gi 480132254 gb APRF01000008.1 (Bia) 0XA-95:D0519089-9-833:825 98.42 825 13 0 645518 646342 825 1 0.0 1532 15 gi 480132254 gb APRF01000008.1 (Bia) 0XA-91:D0519086:1199-2023:825 98.42 825 13 0 645518 646342 825 1 0.0 1532 17 gi 480132254 gb APRF01000008.1 (Bia) 0XA-98:AMI279652:1-825:825 98.30 825 14 0 645518 646342 825 1 0.0 1524 18 gi 480132254 gb APRF01000008.1 (Bia) 0XA-216:7R865186:1-825:825 98.30 825 14 0 645518 646342 825 1 0.0 1524 20 gi 480132254 gb APRF01000008.1 (Bia) 0XA-216:7R865186:1-825:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 21 gi	12 gi 480132254 gb APRF010	000008.1 (Bla)O	XA-88:DQ392963:9-833:825	98.55	825	12	0	645518	646342	825	1	0.0	1540
14 gi 480132254 gb APRF01000008.11 (Ba)OXA-95:DQ519089-9.833:825 98.42 825 13 0 645518 646342 825 1 0.0 1532 15 gi 480132254 gb APRF01000008.11 (Ba)OXA-94:DQ519088:189-2023:825 98.42 825 13 0 645518 646342 825 1 0.0 1532 17 gi 480132254 gb APRF01000008.11 (Ba)OXA-94:DQ519086:1199-2023:825 98.30 825 14 0 645518 646342 825 1 0.0 1524 19 gi 480132254 gb APRF01000008.11 (Ba)OXA-64:AY7509071:825:825 98.30 825 14 0 645518 646342 825 1 0.0 1524 19 gi 480132254 gb APRF01000008.11 (Ba)OXA-217:N603240:1-825:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 21 gi 480132254 gb APRF01000008.11 (Ba)OXA-216:FR85168:1-825:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 22 gi 480132254	13 gi 480132254 gb APRF010	000008.1 (Bla)O	XA-65:AY750908:1-825:825	98.55	825	12	0	645518	646342	825	1	0.0	1540
15 gi 480132254 gb APRF01000008.1 (B a)OXA-91:DQ519086:1199-2023:82; 98.42 825 13 0 645518 646342 825 1 0.0 1532 16 gi 480132254 gb APRF01000008.1 (B a)OXA-91:DQ519086:1199-2023:82; 98.42 825 14 0 645518 646342 825 1 0.0 1532 18 gi 480132254 gb APRF0100008.1 (B a)OXA-98:AM279652:1-825:825 98.30 825 14 0 645518 646342 825 1 0.0 1524 19 gi 480132254 gb APRF01000008.1 (B a)OXA-64:AY750907:1-825:825 98.80 825 14 0 645518 646342 825 1 0.0 1524 20 gi 480132254 gb APRF01000008.1 (B a)OXA-216:FR865168:1-825:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 21 gi 480132254 gb APRF01000008.1 (B a)OXA-130:FU5474451:-825:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 23 gi 480132254 gb APRF01000008.1 (B a)OXA-77:AY9492021-825:825 98.18 <td>14 gi 480132254 gb APRF010</td> <td>000008.1 (Bla)O</td> <td>XA-95:DQ519089:9-833:825</td> <td>98.42</td> <td>825</td> <td>13</td> <td>0</td> <td>645518</td> <td>646342</td> <td>825</td> <td>1</td> <td>0.0</td> <td>1532</td>	14 gi 480132254 gb APRF010	000008.1 (Bla)O	XA-95:DQ519089:9-833:825	98.42	825	13	0	645518	646342	825	1	0.0	1532
16 gi 480132254 gb APRF01000008.1 (Bia) 0XA-91:00519086:1199-2023:825 98.42 825 14 0 645518 646342 825 1 0.0 1532 17 gi 480132254 gb APRF01000008.1 (Bia) 0XA-918:0HM5700361:825:825 98.30 825 14 0 645518 646342 825 1 0.0 1524 19 gi 480132254 gb APRF01000008.1 (Bia) 0XA-64:AY7509071:825:825 98.30 825 14 0 645518 646342 825 1 0.0 1524 19 gi 480132254 gb APRF01000008.1 (Bia) 0XA-216:FR851681:825:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 20 gi 480132254 gb APRF01000008.1 (Bia) 0XA-216:FR851681:825:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 23 gi 480132254 gb APRF01000008.1 (Bia) 0XA-717:8451:825:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 24 gi 480132254 gb APRF01000008.1 (Bia) 0XA-66:EF051061:485-1309:825 98.18 <td>15 gi 480132254 gb APRF010</td> <td>000008.1 (Bla)O</td> <td>XA-94:DQ519088:9-833:825</td> <td>98.42</td> <td>825</td> <td>13</td> <td>0</td> <td>645518</td> <td>646342</td> <td>825</td> <td>1</td> <td>0.0</td> <td>1532</td>	15 gi 480132254 gb APRF010	000008.1 (Bla)O	XA-94:DQ519088:9-833:825	98.42	825	13	0	645518	646342	825	1	0.0	1532
17 gi 480132254 gb APRF01000008.1 (Bia)OXA-180:HM570036:1-825:825 98.30 825 14 0 645518 646342 825 1 0.0 1524 19 gi 480132254 gb APRF01000008.1 (Bia)OXA-66:AY750907:1-825:825 98.30 825 14 0 645518 646342 825 1 0.0 1524 19 gi 480132254 gb APRF01000008.1 (Bia)OXA-64:AY750907:1-825:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 21 gi 480132254 gb APRF01000008.1 (Bia)OXA-216:FR865168:1-825:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 22 gi 480132254 gb APRF01000008.1 (Bia)OXA-130:EU547445:1-825:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 23 gi 480132254 gb APRF01000008.1 (Bia)OXA-76:PY50910:1-825:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 24 gi 480132254 gb APRF01000008.1 (Bia)OXA-66:FO31061:485:130:9:825 98.18	16 gi 480132254 gb APRF010	000008.1 Bla)OXA	-91:DQ519086:1199-2023:825	98.42	825	13	0	645518	646342	825	1	0.0	1532
18 gi 480132254 gb APRF01000008.1 (Bia) 0XA-98:AM279652:1-825:825 98.30 825 14 0 645518 646342 825 1 0.0 1524 19 gi 480132254 gb APRF01000008.1 (Bia) 0XA-64:AY750907:1-825:825 98.30 825 14 0 645518 646342 825 1 0.0 1524 20 gi 480132254 gb APRF01000008.1 (Bia) 0XA-217:JN603240:1-825:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 21 gi 480132254 gb APRF01000008.1 (Bia) 0XA-216:FR865168:1-825:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 23 gi 480132254 gb APRF01000008.1 (Bia) 0XA-717:GQ423625:1-825:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 24 gi 480132254 gb APRF01000008.1 (Bia) 0XA-66:FF051061:485-1309:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 25 gi 480132254 gb APRF01000008.1 (Bia) 0XA-66:FF051061:485-1309:825	17 gi 480132254 gb APRF010	000008.1 (Bla)OX	A-180:HM570036:1-825:825	98.30	825	14	0	645518	646342	825	1	0.0	1524
19 gi 480132254 gb APRF01000008.1 (B a)OXA-64:AY750907:1-825:825 98.30 825 14 0 645518 646342 825 1 0.0 1524 20 gi 480132254 gb APRF01000008.1 (B a)OXA-217:JN603240:1-825:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 21 gi 480132254 gb APRF01000008.1 (B a)OXA-216:FR865168:1-825:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 22 gi 480132254 gb APRF01000008.1 (B a)OXA-107:G423625:1-825:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 23 gi 480132254 gb APRF01000008.1 (B a)OXA-77:AY949202:1-825:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 24 gi 480132254 gb APRF01000008.1 (B a)OXA-66:EF051061:485-1309:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 25 gi 480132254 gb APRF01000008.1 (B a)OXA-203:H099857:1-825:825 98.06	18 gi 480132254 gb APRF010	000008.1 (Bla)O	KA-98:AM279652:1-825:825	98.30	825	14	0	645518	646342	825	1	0.0	1524
20 gi 480132254 gb APRF01000008.1 (B a)OXA-217:JN603240:1-825:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 21 gi 480132254 gb APRF01000008.1 (B a)OXA-216:FR865168:1-825:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 22 gi 480132254 gb APRF01000008.1 (B a)OXA-107:GQ423625:1-825:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 24 gi 480132254 gb APRF01000008.1 (B a)OXA-177:AY942622:1-825:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 25 gi 480132254 gb APRF01000008.1 (B a)OXA-66:EFO51061:485:1309:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 26 gi 480132254 gb APRF01000008.1 (B a)OXA-66:EFO51061:485:1309:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 27 gi 480132254 gb APRF01000008.1 (B a)OXA-209:H09637701:-825:825 98.06	19 gi 480132254 gb APRF010	000008.1 (Bla)O	XA-64:AY750907:1-825:825	98.30	825	14	0	645518	646342	825	1	0.0	1524
21 gi 480132254 gb APRF01000008.1 (B a)OXA-216:FR85168:1-825:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 22 gi 480132254 gb APRF01000008.1 (B a)OXA-130:EU547445:1-825:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 23 gi 480132254 gb APRF01000008.1 (B a)OXA-117:GQ423625:1-825:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 24 gi 480132254 gb APRF01000008.1 (B a)OXA-77:AY949202:1-825:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 25 gi 480132254 gb APRF01000008.1 (B a)OXA-66:EFO51061:485-1309:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 26 gi 480132254 gb APRF01000008.1 (B a)OXA-66:EFO51061:485-1309:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 26 gi 480132254 gb APRF01000008.1 (B a)OXA-209:HE963770:1-825:825 98.06 </td <td>20 gi 480132254 gb APRF010</td> <td>000008.1 (Bla)O</td> <td>KA-217:JN603240:1-825:825</td> <td>98.18</td> <td>825</td> <td>15</td> <td>0</td> <td>645518</td> <td>646342</td> <td>825</td> <td>1</td> <td>0.0</td> <td>1516</td>	20 gi 480132254 gb APRF010	000008.1 (Bla)O	KA-217:JN603240:1-825:825	98.18	825	15	0	645518	646342	825	1	0.0	1516
22 gi 480132254 gb APRF01000008.1 (B a)OXA-130:EU547445:1-825:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 23 gi 480132254 gb APRF01000008.1 (B a)OXA-117:GQ423625:1-825:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 24 gi 480132254 gb APRF01000008.1 (B a)OXA-77:AY949202:1-825:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 25 gi 480132254 gb APRF01000008.1 (B a)OXA-66:EF051061:485-1309:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 26 gi 480132254 gb APRF01000008.1 (B a)OXA-66:EF051061:485-1309:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 28 gi 480132254 gb APRF01000008.1 (B a)OXA-206:A6634250:1-825:825 98.06 825 16 0 645518 646342 825 1 0.0 1509 29 gi 480132254 gb APRF01000008.1 (B a)OXA-203:HQ99857:1-825:825 98.06 </td <td>21 gi 480132254 gb APRF010</td> <td>000008.1 (Bla)OX</td> <td>(A-216:FR865168:1-825:825</td> <td>98.18</td> <td>825</td> <td>15</td> <td>0</td> <td>645518</td> <td>646342</td> <td>825</td> <td>1</td> <td>0.0</td> <td>1516</td>	21 gi 480132254 gb APRF010	000008.1 (Bla)OX	(A-216:FR865168:1-825:825	98.18	825	15	0	645518	646342	825	1	0.0	1516
23 gi 480132254 gb APRF01000008.1 (B a)OXA-117:GQ423625:1-825:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 24 gi 480132254 gb APRF01000008.1 (B a)OXA-77AY949202:1-825:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 25 gi 480132254 gb APRF01000008.1 (B a)OXA-66:AY750910:1-825:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 26 gi 480132254 gb APRF01000008.1 (B a)OXA-66:EF051061:485-1309:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 27 gi 480132254 gb APRF01000008.1 (B a)OXA-269:HE963770:1-825:825 98.06 825 16 0 645518 646342 825 1 0.0 1509 29 gi 480132254 gb APRF01000008.1 (B a)OXA-203:HO998857:1-825:825 98.06 825 16 0 645518 646342 825 1 0.0 1509 29 gi 480132254 gb APRF01000008.1 (B a)OXA-202:HO734813:1-825:825 98.06	22 gi 480132254 gb APRF010	000008.1 (Bla)OX	(A-130:EU547445:1-825:825	98.18	825	15	0	645518	646342	825	1	0.0	1516
24 g1 480132254 gb APRF01000008.1 (Bia)0XA-77:AY949202:1-825:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 25 gi 480132254 gb APRF01000008.1 (Bia)0XA-66:AY750910:1-825:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 26 gi 480132254 gb APRF01000008.1 (Bia)0XA-66:EF051061:485-1309:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 27 gi 480132254 gb APRF01000008.1 (Bia)0XA-209:HE963770:1-825:825 98.06 825 16 0 645518 646342 825 1 0.0 1509 28 gi 480132254 gb APRF01000008.1 (Bia)0XA-203:HQ99887:1-825:825 98.06 825 16 0 645518 646342 825 1 0.0 1509 29 gi 480132254 gb APRF01000008.1 (Bia)0XA-202:HQ734813:1-825:825 98.06 825 16 0 645518 646342 825 1 0.0 1509 30 gi 480132254 gb APRF01000008.1 (23 gi 480132254 gb APRF010	000008.1 (Bla)OX	A-117:GQ423625:1-825:825	98.18	825	15	0	645518	646342	825	1	0.0	1516
25 g1 480132254 gb APRF01000008.1 (Bia)0XA-68:AY750910:1-825:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 26 gi 480132254 gb APRF01000008.1 (Bia)0XA-66:EF051061:485-1309:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 27 gi 480132254 gb APRF01000008.1 (Bia)0XA-249:HE963770:1-825:825 98.06 825 16 0 645518 646342 825 1 0.0 1509 28 gi 480132254 gb APRF01000008.1 (Bia)0XA-203:HQ99857:1-825:825 98.06 825 16 0 645518 646342 825 1 0.0 1509 29 gi 480132254 gb APRF01000008.1 (Bia)0XA-203:HQ998857:1-825:825 98.06 825 16 0 645518 646342 825 1 0.0 1509 30 gi 480132254 gb APRF01000008.1 (Bia)0XA-202:HQ734813:1-825:825 98.06 825 16 0 645518 646342 825 1 0.0 1509 31 gi 480132254 gb APRF01000008.1	24 gi 480132254 gb APRF010	000008.1 (Bla)O	XA-77:AY949202:1-825:825	98.18	825	15	0	645518	646342	825	1	0.0	1516
26 gi 480132254 gb APRF01000008.1 (Bia) 0XA-66:EF051061:485-1309:825 98.18 825 15 0 645518 646342 825 1 0.0 1516 27 gi 480132254 gb APRF01000008.1 (Bia) 0XA-249:HE9637701:A25:825 98.06 825 16 0 645518 646342 825 1 0.0 1509 28 gi 480132254 gb APRF01000008.1 (Bia) 0XA-203:H0998857:1-825:825 98.06 825 16 0 645518 646342 825 1 0.0 1509 29 gi 480132254 gb APRF01000008.1 (Bia) 0XA-203:H0998857:1-825:825 98.06 825 16 0 645518 646342 825 1 0.0 1509 30 gi 480132254 gb APRF01000008.1 (Bia) 0XA-202:H0734813:1-825:825 98.06 825 16 0 645518 646342 825 1 0.0 1509 31 gi 480132254 gb APRF01000008.1 Bia) 0XA-199:H0637466:1233-2057:82 98.06 825 16 0 645518 646342 825 1 0.0 1509 32 gi 480132254 gb APRF01000008.1 Bia) 0XA-199:H0637466:1233-2057:82 <	25 gi 480132254 gb APRF010	000008.1 (Bla)O	XA-68:AY750910:1-825:825	98.18	825	15	0	645518	646342	825	1	0.0	1516
27 gi 480132254 gb APRF01000008.1 (B a)0XA-249:He963770:1-825:825 98.06 825 16 0 645518 646342 825 1 0.0 1509 28 gi 480132254 gb APRF01000008.1 (B a)0XA-206:AB634250:1-825:825 98.06 825 16 0 645518 646342 825 1 0.0 1509 29 gi 480132254 gb APRF01000008.1 (B a)0XA-206:H093857:1-825:825 98.06 825 16 0 645518 646342 825 1 0.0 1509 30 gi 480132254 gb APRF01000008.1 (B a)0XA-202:H0/34813:1-825:825 98.06 825 16 0 645518 646342 825 1 0.0 1509 31 gi 480132254 gb APRF01000008.1 (B a)0XA-199:H0637466:1233-2057:82 98.06 825 16 0 645518 646342 825 1 0.0 1509 32 gi 480132254 gb APRF01000008.1 (B a)0XA-199:H0637466:1233-2057:82 98.06 825 16 0 645518 646342 825 1 0.0 1509 32 gi 480132254 gb APRF01000008.1 (B a)0XA-150:GQ853681:1-825:825 98.0	26 gi 480132254 gb APRF010	000008.1 (Bla)OX/	A-66:EF051061:485-1309:825	98.18	825	15	0	645518	646342	825	1	0.0	1516
28 g1 480132254 g0 APRF01000008.1 (B1a)OXA-205:A8634250:1-825:825 98.06 825 16 0 645518 646342 825 1 0.0 1509 29 gi 480132254 gb APRF01000008.1 (B1a)OXA-203:HQ998857:1-825:825 98.06 825 16 0 645518 646342 825 1 0.0 1509 30 gi 480132254 gb APRF01000008.1 (B1a)OXA-202:HQ734813:1-825:825 98.06 825 16 0 645518 646342 825 1 0.0 1509 31 gi 480132254 gb APRF01000008.1 B a)OXA-199:HQ637466:1233-2057:82 98.06 825 16 0 645518 646342 825 1 0.0 1509 32 gi 480132254 gb APRF01000008.1 B a)OXA-199:HQ637466:1233-2057:82 98.06 825 16 0 645518 646342 825 1 0.0 1509 32 gi 480132254 gb APRF01000008.1 (B1a)OXA-150:GQ853681:1-825:825 98.06 825 16 0 645518 646342 825 1 0.0 1509 33 gi 480132254 gb APRF01000008.1 (B1a)OXA-144:FJ872530:1-825:	27 gi 480132254 gb APRF010	000008.1 (Bla)OX	(A-249:HE963770:1-825:825	98.06	825	16	0	645518	646342	825	1	0.0	1509
29 g1 480132254 g0 APRF01000008.1 (Bla)OXA-203:HQ998857:1-825:825 98.06 825 16 0 645518 646342 825 1 0.0 1509 30 gi 480132254 gb APRF01000008.1 (Bla)OXA-202:HQ734813:1-825:825 98.06 825 16 0 645518 646342 825 1 0.0 1509 31 gi 480132254 gb APRF01000008.1 B a)OXA-199:HQ637466:1233-2057:82 98.06 825 16 0 645518 646342 825 1 0.0 1509 32 gi 480132254 gb APRF01000008.1 B a)OXA-199:HQ637466:1233-2057:82 98.06 825 16 0 645518 646342 825 1 0.0 1509 32 gi 480132254 gb APRF01000008.1 (Bla)OXA-150:GQ853681:1-825:825 98.06 825 16 0 645518 646342 825 1 0.0 1509 33 gi 480132254 gb APRF01000008.1 (Bla)OXA-144:FJ872530:1-825:825 98.06 825 16 0 645518 646342 825 1 0.0 1509 33 gi 480132254 gb APRF01000008.1 (Bla)OXA-144:FJ872530:1-825:	28 gi 480132254 gb APRF010	000008.1 (Bla)OX	KA-206:AB634250:1-825:825	98.06	825	16	0	645518	646342	825	1	0.0	1509
30 g1 480132254 gb APRF01000008.1 (b1a)OXA-202:HQ/34813:1-825:825 98.06 825 16 0 645518 646342 825 1 0.0 1509 31 gi 480132254 gb APRF01000008.1 B1a)OXA-199:HQ637466:1233-2057:82 98.06 825 16 0 645518 646342 825 1 0.0 1509 32 gi 480132254 gb APRF01000008.1 (B1a)OXA-150:GQ853681:1-825:825 98.06 825 16 0 645518 646342 825 1 0.0 1509 33 gi 480132254 gb APRF01000008.1 (B1a)OXA-144:FJ872530:1-825:825 98.06 825 16 0 645518 646342 825 1 0.0 1509 33 gi 480132254 gb APRF01000008.1 (B1a)OXA-144:FJ872530:1-825:825 98.06 825 16 0 645518 646342 825 1 0.0 1509	29 gi 480132254 gb APRF010	000008.1 (Bla)OX	A-203:HQ998857:1-825:825	98.06	825	16	0	645518	646342	825	1	0.0	1509
31 g1[480132254]g0]APRF01000008.1[81a]0XA-199:HQ63/46b:1233-205/:82 98.06 825 16 0 645518 646342 825 1 0.0 1509 32 gi[480132254]gb]APRF01000008.1] (Bla)0XA-150:GQ853681:1-825:825 98.06 825 16 0 645518 646342 825 1 0.0 1509 33 gi[480132254]gb]APRF01000008.1] (Bla)0XA-144:FJ872530:1-825:825 98.06 825 16 0 645518 646342 825 1 0.0 1509	30 g1 480132254 gb APRF010	000008.1 (Bla)OX	A-202:HQ734813:1-825:825	98.06	825	16	0	645518	646342	825	1	0.0	1509
32 g1[480132254]g0]APRF01000008.1] (b1a)OXA-150:GQ853681:1-825:825 98.06 825 16 0 645518 646342 825 1 0.0 1509 33 g1[480132254]gb]APRF01000008.1] (B1a)OXA-144:FJ872530:1-825:825 98.06 825 16 0 645518 646342 825 1 0.0 1509	31 g1 480132254 gb APRF010	000008.1 BIa)OXA-	199:HQ63/466:1233-2057:82	98.06	825	16	0	645518	646342	825	1	0.0	1509
35 g114801522541g01APKr01000008.1 (b1a)0XA-144:F1872530:1-825:825 98.06 825 16 0 645518 646342 825 1 0.0 1509	52 g1 480132254 g0 APRF010	000008.1 (Bia)OX	A-150:GQ853681:1-825:825	98.06	825	10	0	645518	646342	825	1	0.0	1509
	55 g1 480132254 g0 APRF010	000008.1 (Bla)O)	XA-144:FJ8/2530:1-825:825	98.06	825	10	0	645518	646342	825	1	0.0	1509
0-9 g1[480132254]g0]APK701000008.11 [01a]07A-128:E03/5515:1-825:825 98:06 825 16 0 645518 646542 825 1 0.0 1509	54 g1 480132254 gD APRF010	000008.1 (BIa)OX	VA-128:EU3/5515:1-825:825	98.06	825	10	0	645518	646342	825	1	0.0	1509

Select and copy the blast output and paste in the XL-sheet and reduce the redundancy using removes duplicates from the QSS and QSE column.

7. Use of XL function to reduce redundancy

Children of the second	Accueil	Insertion	Mise ei	n page	Formules	Doni	nées	Révisio	n Affichage								
À p fichi	partir du À pa ier Access site	rtir du À partir Web du texte	À partir o sourc	d'autres ces *	Connexions existantes	Actuali)	Connexio Propriété Modifier	ons is Tes liens d'accès	$ \begin{array}{c} \underline{A} \downarrow \\ \underline{Z} \downarrow \\ \underline{Z} \downarrow \\ \underline{A} \downarrow \end{array} $ $ \begin{array}{c} \underline{A} \\ \underline{Z} \downarrow \\ \underline{A} \\ \end{array} $ $ \begin{array}{c} \underline{A} \\ \underline{Z} \downarrow \\ \end{array} $	Fil	trer y	Effacer Réapplic Avancé	juer	Convertir	Supprimer es doublon	Validation de s données *
e.		Données	externes					Connexio	ins	C.	Trie	r et filtrer	9				Outils de donn
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1	Qu	iery id		D	atabase id		% Id	entity	Alignment length	Mismatches	Gap	QSS*	QSE**	DSS***	DSE****	e-value	Bit score
2 g	i 480132254 g	b APRF0100000	8.1 amas	se_class	-A):NC_010410	:2507740	10	0.00	1275	0	0	315294	316568	1275	1	0.0	2527
3 g	i 480132254 g	b APRF0100000)8.1 (BI	a)OXA-69	AY750911:1-8	25:825	10	0.00	825	0	0	645518	646342	825	1	0.0	1635
4 g	i 480132254 g	b APRF0100000)8.1 (Bla	a)OXA-24	8:HE963769:1-	825:825	99	.88	825	1	0	645518	646342	825	1	0.0	1628
5 g	i 480132254 g	b APRF0100000	08.1 (Bla	a)OXA-11	2:EF650038:1-	825:825	99	.88	825	1	0	645518	646342	825	1	0.0	1628
6 g	i 480132254 g	b APRF0100000)8.1 (Bla	a)OXA-11	0:EF650036:1-	825:825	99	.88	825	1	0	645518	646342	825	1	0.0	1628
7 g	i 480132254 g	b APRF0100000)8.1 (Bla	a)OXA-10	7:EF650033:1-	825:825	99	.88	825	1	0	645518	646342	825	1	0.0	1628
8 g	i 480132254 g	b APRF0100000)8.1 (BI	a)OXA-92	::DQ335566:1-0	825:825	99	.88	825	1	0	645518	646342	825	1	0.0	1628
9 g	i 480132254 g	b APRF0100000)8.1 (Bla	a)OXA-25	0:HE963771:1-	825:825	99	9.76	825	2	0	645518	646342	825	1	0.0	1620
10 g	i 480132254 g	b APRF0100000)8.1 (Bla	a)OXA-12	0:HE963768:1-	825:825	98	8.91	825	9	0	645518	646342	825	1	0.0	1564
11 g	i 480132254 g	b APRF0100000)8.1 (Bla	a)OXA-20	8:FR853176:1-	825:825	98	3.55	825	12	0	645518	646342	825	1	0.0	1540
12 g	i 480132254 g	6 APRF0100000	08.1) (DI	a)OXA-88	DQ392963.9-1	333.825	98	3.55	825	12	0	645518	646342	825	1	0.0	1540
13 g	i 480132254 g	b APRF0100000	08.1 (BI	a)OXA-65	5:AY750908:1-8	25:825	98	3.55	825	12	0	645518	646342	825	1	0.0	1540
14 g	i 480132254 g	b APRF0100000)8.1 (BI	a)OXA-95	:DQ519089:9-	833:825	98	3.42	825	13	0	645518	646342	825	1	0.0	1532
15 g	i 480132254 g	b APRF0100000)8.1 (BI	a)OXA-94	:DQ519088:9-1	333:825		2.42	015	12	- 0	CALE 10	505212	SZ	1	0.0	1532
16 g	i 480132254 g	b APRF0100000)8.1 (Bla)(OXA-91:D	Q519086:1199	-2023:825	Supp	primer les	avertissements e	n double			He	~)	1	0.0	1532
17 g	i 480132254 g	b APRF0100000)8.1 (Bla	a)OXA-180	D:HM570036:1-	825:825			- Fried - Arrived -						1	0.0	1524
18 g	i 480132254 g	b APRF0100000	08.1 (Bla	a)OXA-98	:AM279652:1-1	825:825	elles	osont Omo	e excel a trouve de as sélectionnées le	es aonnees pr	nas si	votre selei	ction. Cor	nme	1	0.0	1524
19 g	i 480132254 g	b APRF0100000	08.1 (BI	a)OXA-64	L:AY750907:1-8	25:825	CIICS	ne som p	as selection mees, e	area the action	pas se	pprinces	•		1	0.0	1524
20 g	i 480132254 g	b APRF0100000	08.1 (Bla	a)OXA-21	7:JN603240:1-	825:825	Que	voulez-vo	us faire ?						1	0.0	1516
21 g	i 480132254 g	b APRF0100000	08.1 (Bla	a)OXA-21	6:FR865168:1-	825:825	0	Étendre	a sélection						1	0.0	1516
22 g	i 480132254 g	b APRF0100000	08.1 (Bla	a)OXA-13	0:EU547445:1-	825:825	0	Continue	r avec la célection (1	0.0	1516
23 g	i 480132254 g	b APRF0100000)8.1 (Bla	a)OXA-11	7:GQ423625:1-	825:825			avec la selection i	en cours					1	0.0	1516
24 g	i 480132254 g	b APRF0100000)8.1 (BI	a)OXA-77	AY949202:1-8	25:825									1	0.0	1516
25 g	i 480132254 g	b APRF0100000	08.1 (BI	a)OXA-68	3:AY750910:1-8	25:825				upprimer les d	loublor	15	Annulei		1	0.0	1516
26 g	i 480132254 g	b APRF0100000)8.1 (Bla)OXA-66:8	EF051061:485-	1309:825									1	0.0	1516
27 g	i 480132254 g	b APRF010000)8.1 (Bla	a)OXA-24	9:HE963770:1-	825:825	98	8.06	825	16	0	645518	646342	825	1	0.0	1509
28 g	i 480132254 g	b APRF010000)8.1 (Bla	a)OXA-20	6:AB634250:1-	825:825	98	8.06	825	16	0	645518	646342	825	1	0.0	1509
29 g	i 480132254 g	b APRF0100000)8.1 (Bla	a)OXA-20	3:HQ998857:1-	825:825	98	8.06	825	16	0	645518	646342	825	1	0.0	1509
30 g	i 480132254 g	b APRF010000	08.1 (Bla	a)OXA-20	2:HQ734813:1-	825:825	98	8.06	825	16	0	645518	646342	825	1	0.0	1509
31 g	i 480132254 g	b APRF010000	08.1 Bla)C	DXA-199:H	Q637466:123	-2057:82	98	8.06	825	16	0	645518	646342	825	1	0.0	1509
32 g	i 480132254 g	b APRF010000)8.1 (Bla	a)OXA-15	D:GQ853681:1-	825:825	98	8.06	825	16	0	645518	646342	825	1	0.0	1509
33 g	i 480132254 g	b APRF010000)8.1 (BI	a)OXA-14	4:FJ872530:1-	325:825	98	8.06	825	16	0	645518	646342	825	1	0.0	1509
24 -	14001200541-	- LADDE0100000	0 11 /DI-	NOVA 17	0.0107001.0	000.000	0.0	06	075	16	0	CACC10	646242	075	1	0.0	1500

8. Use of XL function to reduce redundancy

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À	partir du À par hier Access site	tir du À partir Web du texte	À pa	artir d'autres sources *	Connexions existantes	Image: Connexions Image: Connexions Actualiser Image: Connexions Actualiser Image: Connexions Image: Connexions Image: Connexions <tr< td=""><td>uer o</td><td>Convertir</td><td>Supprimer es doublon</td><td>Validation o s données</td></tr<>							uer o	Convertir	Supprimer es doublon	Validation o s données
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	A2	- (*		∫x gi 4	30132254 gb	APRFO	1000008.1									
	-	A		_	В		С	D	E	F	G	Н	1	J	K	L
1	Qu	ery id		D	atabase id		% Identity	Alignment length	Mismatches	Gap	QSS*	QSE**	DSS***	DSE****	e-value	Bit score
2	gi 480132254 gb	APRF010000	08.1 a	amase_class	A):NC_010410:	2507740	100.00	1275	0	0	315294	316568	1275	1	0.0	2527
3	gi 480132254 gb	APRF010000	08.1	(Bla)OXA-69	AY750911:1-82	5:825	100.00	825	0	0	645518	646342	825	1	0.0	1635
4	gi 480132254 gb	APRF010000	08.1	(Bla)OXA-24	8:HE963769:1-8	25:825	99.88	825	1	0	645518	646342	825	1	0.0	1628
5	gi 480132254 gb	APRF010000	08.1	(Bla)OXA-11	2:EF650038:1-8	25:825	99.88	825	1	0	645518	646342	825	1	0.0	1628
6	gi 480132254 gb	APRF010000	08.1	(Bla)OXA-11	0:EF650036:1-8	25:825	99.88	825	1	0	645518	646342	825	1	0.0	1628
7	gi 480132254 gb	APRF010000	08.1	(Bla)OXA-10	7:EF650033:1-8	25:825	99.88	825	1	0	645518	646342	825	1	0.0	1628
8	gi 480132254 gb	APRF010000	08.1	(Bla)OXA-92	:DQ335566:1-8	25:825	99.88	825	1	0	645518	646342	825	1	0.0	1628
9	gi 480132254 gb	APRF010000	08.1	(Bla)OXA-25	0:HE963771:1-8	25:825	99.76	825	2	0	645518	646342	825	1	0.0	1620
10	gi 480132254 gb	APRF010000	08.1	(Bla)OXA-12	0:HE963768:1-8	25:825	98.91	825	9	0	645518	646342	825	1	0.0	1564
11	gi 480132254 gb	APRF010000	08.1	(Bla)OXA-20	8:FR853176:1-8	25:825	98.55	825	12	0	645518	646342	825	1	0.0	1540
12	gi 480132254 gb	APRF010000	08.1	(Bla)OXA-88	:DQ392963:9-8	33:825	98.55	825	12	0	645518	646342	825	1	0.0	1540
13	gi 480132254 gb	APRF010000	08.1	(Bla)OXA-65	:AY750908:1-8	Supprin	ner les doul	olons				and the second se	8	X	0.0	1540
14	gi 480132254 gb	APRF010000	08.1	(Bla)OXA-95	:DQ519089:9-8	ouppin		, one			The state of the s				0.0	1532
15	gi 480132254 gb	APRF010000	08.1	(Bla)OXA-94	:DQ519088:9-8	Pour su	upprimer les v	aleurs en double, séle	ctionnez une	ou plusi	eurs colo	nnes cont	enant d	es 📕	0.0	1532
16	gi 480132254 gb	APRF010000	08.1	Bla)OXA-91:D	Q519086:1199-	doublo	ns.			enstaan.					0.0	1532
17	gi 480132254 gb	APRF010000	08.1	(Bla)OXA-180	0:HM570036:1-	-				1					0.0	1524
18	gi 480132254 gb	APRF010000	08.1	(Bla)OXA-98	:AM279652:1-8	3	Sélectionne	r tout	tionner tout		Mes donn	ees ont d	es en-te	tes	0.0	1524
19	gi 480132254 gb	APRF010000	08.1	(Bla)OXA-64	AY750907:1-8	Generation			2						0.0	1524
20	gi 480132254 gb	APRF010000	08.1	(Bla)OXA-21	7:JN603240:1-8										0.0	1516
21	gi 480132254 gb	APRF010000	08.1	(Bla)OXA-21	6:FR865168:1-8	Colon	nes							-	0.0	1516
22	gi 480132254 gb	APRF010000	08.1	(Bla)OXA-13	0:EU547445:1-8	Qu Qu	iery id							=	0.0	1516
23	gi 480132254 gb	APRF010000	08.1	(Bla)OXA-11	7:GQ423625:1-6	🔽 Da	itabase id								0.0	1516
24	gi 480132254 gb	APRF010000	08.1	(Bla)OXA-77	:AY949202:1-8	8 📝 % Identity								0.0	1516	
25	gi 480132254 gb	APRF010000	08.1	(Bla)OXA-68	:AY750910:1-8		anment lena	h							0.0	1516
26	gi 480132254 gb	APRF010000	08.1	(Bla)OXA-66:	F051061:485-1	1 V Mismatches								-	0.0	1516
27	gi 480132254 gb	APRF010000	08.1	(Bla)OXA-24	9:HE963770:1-8	100 100									0.0	1509
28	gi 480132254 gb	APRF010000	08.1	(Bla)OXA-20	6:AB634250:1-8						01				0.0	1509
29	gi 480132254 gb	APRF010000	08.1	(Bla)OXA-20	3:HQ998857:1-						OK		Annul	er	0.0	1509
30	gi 480132254 gb	APRF010000	08.1	(Bla)OXA-20	2:HQ734813:1-8						Carlantin Laws				0.0	1509
31	gi 480132254 gb	APRF010000	08.1 8	Bla)OXA-199:H	IQ637466:1233	2057:82	98.06	825	16	0	645518	646342	825	1	0.0	1509

9. Use of XL function to reduce redundancy

C	12	1. 17	(u -) =			-	-	-		XL_File	For_ARG_A	NALYS	SIS [Mod	e de con	npatibil	ité] - Micr	osoft Excel	
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fi	À part chier	tir du À p Access si	Dartir du te Web	À partir du texte	À partir sour	d'autres ces *	Connexions existantes	Actualis tout	Con Prop Mod	nexions priétés fifier les	liens d'accès	A A A A ↓ Trier	Fi	Itrer	Etfacer Réapplic Avancé	quer	Convertir	Supprimer es doublon	Validation o s données
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1	-	1	Query ic		_	[Database id		% Identity	/ Alig	nment length	Mismatches	Gap	QSS*	QSE**	DSS***	DSE****	e-value	Bit score
2	gi 4	80132254	gb APR	RF01000008	8.1 ama	se_class	-A):NC_010410:	2507740	100.00		1275	0	0	315294	316568	1275	1	0.0	2527
3	gi 4	80132254	gb AP	RF01000008	8.1 (B	a)OXA-6	9:AY750911:1-8	25:825	100.00		825	0	0	645518	646342	825	1	0.0	1635
4	gi 4	80132254	gb APP	RF01000008	3.1 (BI	a)OXA-24	48:HE963769:1-8	25:825	99.88		825	1	0	645518	646342	825	1	0.0	1628
5	gi 4	80132254	gb AP	RF01000008	3.1 (BI	a)OXA-1	12:EF650038:1-8	25:825	99.88		825	1	0	645518	646342	825	1	0.0	1628
6	gi 4	80132254	gb APF	RF01000008	3.1 (BI	a)OXA-1	10:EF650036:1-8	25:825	99.88		825	1	0	645518	646342	825	1	0.0	1628
7	gi 4	80132254	gb APR	RF01000008	3.1 (BI	a)OXA-10	07:EF650033:1-8	25:825	99.88		825	1	0	645518	646342	825	1	0.0	1628
8	gi 4	80132254	gb APF	RF01000008	8.1 (B	a)OXA-9	2:DQ335566:1-8	25:825	99.88		825	1	0	645518	646342	825	1	0.0	1628
9	gi 4	80132254	gb AP	RF01000008	8.1 (BI	a)OXA-25	0:HE963771:1-8	25:825	99.76		825	2	0	645518	646342	825	1	0.0	1620
10	gi 4	80132254	gbAP	RF01000008	8.1 (BI	a)OXA-12	0:HE963768:1-8	25:825	98.91		825	9	0	645518	646342	825	1	0.0	1564
11	gi 4	80132254	gb AP	RF01000008	3.1 (BI	a)OXA-20	08:FR853176:1-8	25:825	98.55		825	12	0	645518	646342	825	1	0.0	1540
12	gi 4	80132254	gb AP	RF01000008	8.1 (BI	a)OXA-8	8:DQ392963:9-8	33:825	98.55	-	825	12	0	645518	646342	825	1	0.0	1540
13	gi 4	80132254	gb AP	RF0100008	8.1 (B	a)OXA-6	5:AY750908:1-8	Supprir	ner les dou	hlons						2	X	0.0	1540
14	gi 4	80132254	gbAP	RF0100008	8.1 (BI	a)OXA-9	5:DQ519089:9-8	Suppin	ner ies uou	ioions	-		- 10	-	-			0.0	1532
15	gi 4	80132254	gbAP	RF0100008	3.1 (BI	a)OXA-9	4:DQ519088:9-8	Pour su	upprimer les	valeurs	en double, séle	ctionnez une (ou olus	ieurs colo	nnes cont	tenant d	es	0.0	1532
16	gi 4	80132254	gbAP	RF01000008	8.1 Bla)	OXA-91:0	Q519086:1199-	doublo	ns.	1000000000			970 1 967 19					0.0	1532
17	gi 4	80132254	gbAP	RF0100008	8.1 (Bla	a)OXA-18	0:HM570036:1-						Treat.					0.0	1524
18	gi 4	80132254	gbAP	RF0100008	8.1 (B)	a)OXA-9	8:AM279652:1-8	3	Sélectionne	er tout	B Déséleo	tionner tout		Mes donn	ées ont d	les en-tê	tes	0.0	1524
19	gi 4	80132254	gbAP	RF0100008	8.1 (B	a)OXA-6	4:AY750907:1-8	Letting			C. Contraction		ļ					0.0	1524
20	gi 4	80132254	gbAP	RF0100008	8.1 (B)	a)OXA-2	17:JN603240:1-8											0.0	1516
21	gi 4	80132254	gbAP	RF0100008	8.1 (BI	a)OXA-21	6:FR865168:1-8	Colon	nes									0.0	1516
22	gi 4	80132254	gbAP	RF0100008	3.1 (BI	a)OXA-13	0:EU547445.1	Ga	ap									0.0	1516
23	gi 4	80132254	gbAP	RF01000008	3.1 (BI	a)OXA-11	7:GQ423625:1	V Q9	SS*								101	0.0	1516
24	gi 4	80132254	gbAP	RF01000008	3.1) (B	a)OXA-7	7:AY949202:1-0	V QS	SE**								E	0.0	1516
25	gi 4	80132254	gbAP	RF01000008	8.1) (B	a)OXA-6	8:AY750910.1 8	DS	S***									0.0	1516
26	gi 4	80132254	gb AP	RF0100008	8.1 (Bla)OXA-66:	EF051061:485-1		E***									0.0	1516
27	gi 4	80132254	gbAP	RF0100008	3.1 (BI	a)OXA-24	9:HE963770:1-8		~			_	_					0.0	1509
28	gi 4	80132254	gbAP	RF0100008	8.1 (BI	a)OXA-20	06:AB634250:1-8											0.0	1509
29	gi 4	80132254	gbAP	RF0100008	8.1 (8)	a)OXA-20	3:HQ998857:1-					2	N	OK		Annul	er	0.0	1509
30	gi 4	80132254	gbAP	RF0100008	8.1 (BI	a)OXA-20	2:HQ734813:1-	<u></u>			-	-			-			0.0	1509
31	gi 4	80132254	gbAP	RF0100008	8.1 Bla)	DXA-199:	HQ637466:1233	-2057:82	98.06		825	16	0	645518	646342	825	1	0.0	1509
32	gi 4	80132254	gb AP	RF0100008	3.1 (BI	a)OXA-15	0:GQ853681:1-8	325:825	98.06		825	16	0	645518	646342	825	1	0.0	1509
33	gi 4	80132254	gbAP	RF0100008	8.1 (BI	a)OXA-1	44:FJ872530:1-8	25:825	98.06		825	16	0	645518	646342	825	1	0.0	1509
34	L:14	00122254	ab LAD	000000000000000000000000000000000000000	11 /01	-1044 1	0.011270010-1 0	25.025	00.00		015	16	0	CALC 10	646243	075	1	0.0	1500

10. Select and delete the gene detetced from same region of query.

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2 gi 480132254 gb APR	F0100008.1	Bla(Beta-la	actamase_clas	s-A):NC_01041	0:2507740-250	9014:1275	100.00	1275	0	0	315294	316568	1275	1	0.0	2527
3 gi 480132254 gb APR	F0100008.1		(Bla)OXA-6	59:AY750911:1-	825:825		100.00	825	0	0	645518	646342	825	1	0.0	1635
4 gi 480132254 gb APR	F0100008.1		-inia)UXA-1	16:EU220744:1	-786:780		98.22	786	14	0	645539	646324	786	1	0.0	1447
5 gi 480132254 gb APR	F0100008.1	Bla(Metallo	_beta_lactam	ase):NC_0104:	10:c <mark>1997136-</mark> 19	96441:696	100.00	696	0	0	824521	825216	1	696	0.0	1380
6 gi 480130436 gb APR	F01000011.1		(Bla)OXA-23:	EF120622:1499	9-2320:822		100.00	822	0	0	306160	306981	822	1	0.0	1629
7 gi 480131261 gb APR	F01000009.1	Bla(beta-la	actamase_clas	s-C):NC_01041	0:1184557-118	5747:1191	100.00	1161	0	0	766812	767972	31	1191	0.0	2302
8 gi 480131261 gb APR	F01000009.1	Bla(Beta-la	actamase_clas	s-A):NC_01041	0:1803480-180	4499:1020	100.00	1020	0	0	98511	99530	1	1020	0.0	2022
9 gi 480130886 gb APR	F01000010.1	Bla(Zn-de	pendent_hydro	plase):NC_010	410:882015-88	2977:963	100.00	963	0	0	185444	186406	963	1	0.0	1909
10 gi 480129843 gb APR	F01000014.1		(Bla)NDM	-1:JQ080305:1-	813:813		100.00	813	0	0	13003	13815	813	1	0.0	1612
11 gi 480129356 gb APR	F01000025.1		(Tet)TetA:JX4	24423:94438-9	95712:1275		100.00	1275	0	0	8005	9279	1	1275	0.0	2527
12 gi 480129356 gb APR	F01000025.1		(Bla)TEM-1D	:AF188200:215	5-1075:861		100.00	861	0	0	18680	19540	1	861	0.0	1707
13 gi 480129356 gb APR	F01000025.1		AND TEW	-42:X98047:1-8	344:844		99.41	844	5	0	18689	19532	1	844	0.0	1633
14 gi 480129356 gb APR	F01000025.1		(AGIy)Aph3''Ia	:FJ172370:3866	58-39483:816		100.00	816	0	0	25314	26129	816	1	0.0	1618
15 gi 480129356 gb APR	F01000025.1		(AGIy)AadA1-p	m:JQ690540:79	968-8798:831		99.88	802	1	0	30238	31039	30	831	0.0	1582
16 gi 480129356 gb APR	F01000025.1		-uallEM-1	18:AY130285:1	-785:785		99.75	785	2	0	18716	19500	1	785	0.0	1540
17 gi 480129356 gb APR	F01000025.1		(Big) TEIVI-1	91:JF949916:1	-/5/:/5/		99.34	757	5	0	18710	19466	1	757	0.0	1461
18 gi 480129356 gb APR	F01000025.1		(Phe)CatA	1:V00622:244-	903:660		99.85	660	1	0	13125	13784	660	1	0.0	1300
19 gi 480129356 gb APR	F01000025.1		(Tet)TetR:HF	545434:53576-	-54226:651		100.00	651	0	0	7324	7974	651	1	0.0	1291
20 gi 480129356 gb APR	F01000025.1		(AGIy)AadA2	24:HQ123586:8	8-768:781		93.44	778	51	0	30260	31037	1	778	0.0	1138
21 gi 480129356 gb APR	F01000025.1		(Sul)Sull:A	F071413:6700-	7539:840		100.00	521	0	0	1	521	320	840	0.0	1033
22 gi 480129356 gb APR	F01000025.1		(Sul)Sull:A	F071413:6700-	7539:840		100.00	495	0	0	31544	32038	1	495	0.0	981
23 gi 480129356 gb APR	F01000025.1		(AGIy)Aac3-	1:X15852:1250	-1783:534		99.06	534	5	0	28671	29204	1	534	0.0	1019
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11. Final Result

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2	gi 480132254 gb APRF01000008.1	Bla(Beta-lactamase_clas	s-A):NC_010410	0:2507740-2509014:1275	100.00	1275	0	0	315294	316568	1275	1	0.0	2527
3	gi 480132254 gb APRF01000008.1	(Bla)OXA-	69:AY750911:1-	825:825	100.00	825	0	0	645518	646342	825	1	0.0	1635
4	gi 480132254 gb APRF01000008.1	Bla(Metallo_beta_lactam	ase):NC_01041	0:c1997136-1996441:696	100.00	696	0	0	824521	825216	1	696	0.0	1380
5	gi 480130436 gb APRF01000011.1	(Bla)OXA-23	:EF120622:1499	-2320:822	100.00	822	0	0	306160	306981	822	1	0.0	1629
6	gi 480131261 gb APRF01000009.1	Bla(beta-lactamase_clas	s-C):NC_010410):1184557-1185747:1191	100.00	1161	0	0	766812	767972	31	1191	0.0	2302
7	gi 480131261 gb APRF01000009.1	Bla(Beta-lactamase_clas	s-A):NC_010410	0:1803480-1804499:1020	100.00	1020	0	0	98511	99530	1	1020	0.0	2022
8	gi 480130886 gb APRF01000010.1	Bla(Zn-dependent_hydr	olase):NC_0104	410:882015-882977:963	100.00	963	0	0	185444	186406	963	1	0.0	1909
9	gi 480129843 gb APRF01000014.1	(Bla)NDN	-1:JQ080305:1-8	813:813	100.00	813	0	0	13003	13815	813	1	0.0	1612
10	gi 480129356 gb APRF01000025.1	(Tet)TetA:JX	424423:94438-9	5712:1275	100.00	1275	0	0	8005	9279	1	1275	0.0	2527
11	gi 480129356 gb APRF01000025.1	(Bla)TEM-10	D:AF188200:215	-1075:861	100.00	861	0	0	18680	19540	1	861	0.0	1707
12	gi 480129356 gb APRF01000025.1	(AGIy)Aph3''Ia	:FJ172370:3866	8-39483:816	100.00	816	0	0	25314	26129	816	1	0.0	1618
13	gi 480129356 gb APRF01000025.1	(AGIy)AadA1-p	m:JQ690540:79	68-8798:831	99.88	802	1	0	30238	31039	30	831	0.0	1582
14	gi 480129356 gb APRF01000025.1	(Phe)Cat/	A1:V00622:244-9	903:660	99.85	660	1	0	13125	13784	660	1	0.0	1300
15	gi 480129356 gb APRF01000025.1	(Tet)TetR:HI	54226:651	100.00	651	0	0	7324	7974	651	1	0.0	1291	
16	gi 480129356 gb APRF01000025.1	(AGIy)AadA	24:HQ123586:88	8-768:781	93.44	778	51	0	30260	31037	1	778	0.0	1138
17	gi 480129356 gb APRF01000025.1	(Sul)Sul1:A	F071413:6700-7	7539:840	100.00	521	0	0	1	521	320	840	0.0	1033
18	gi 480129356 gb APRF01000025.1	(Sul)Sul1:A	F071413:6700-7	7539:840	100.00	495	0	0	31544	32038	1	495	0.0	981
19	19 gi 480129356 gb APRF01000025.1 (AGIy)Aac3-I:X15852:1250-1783:534					534	5	0	28671	29204	1	534	0.0	1019
20														
21														