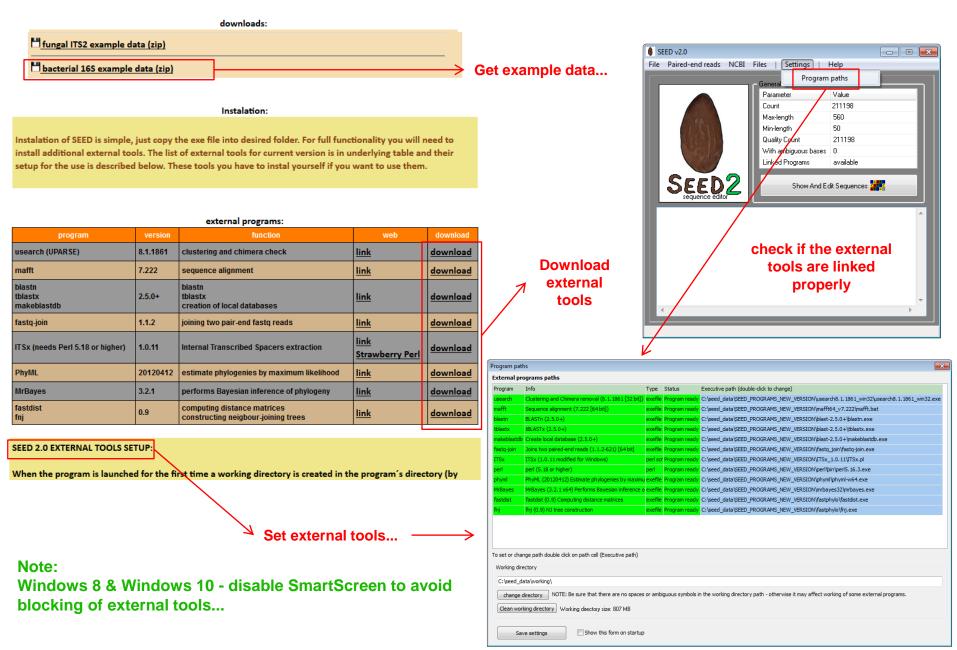
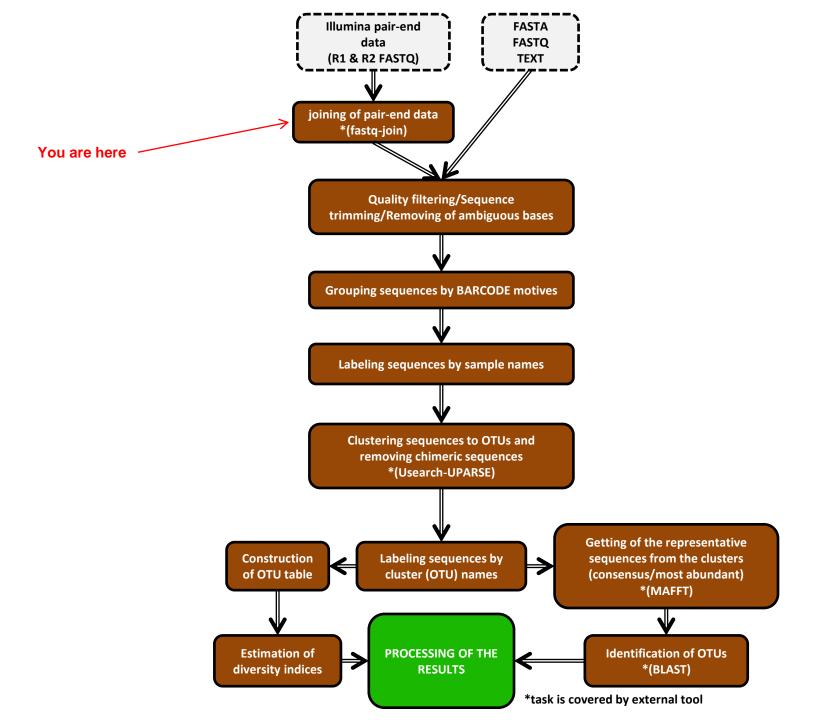
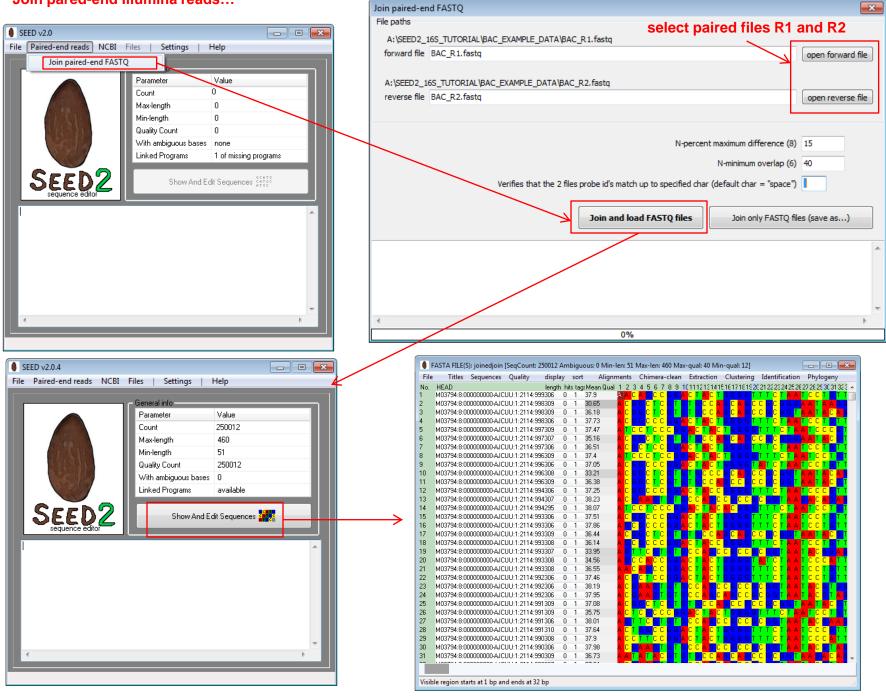


http://www.biomed.cas.cz/mbu/lbwrf/seed/seed2.0.php

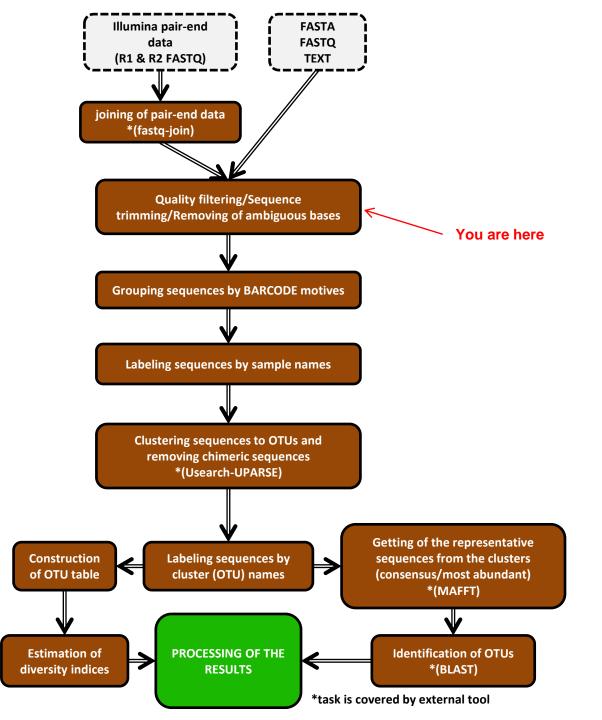




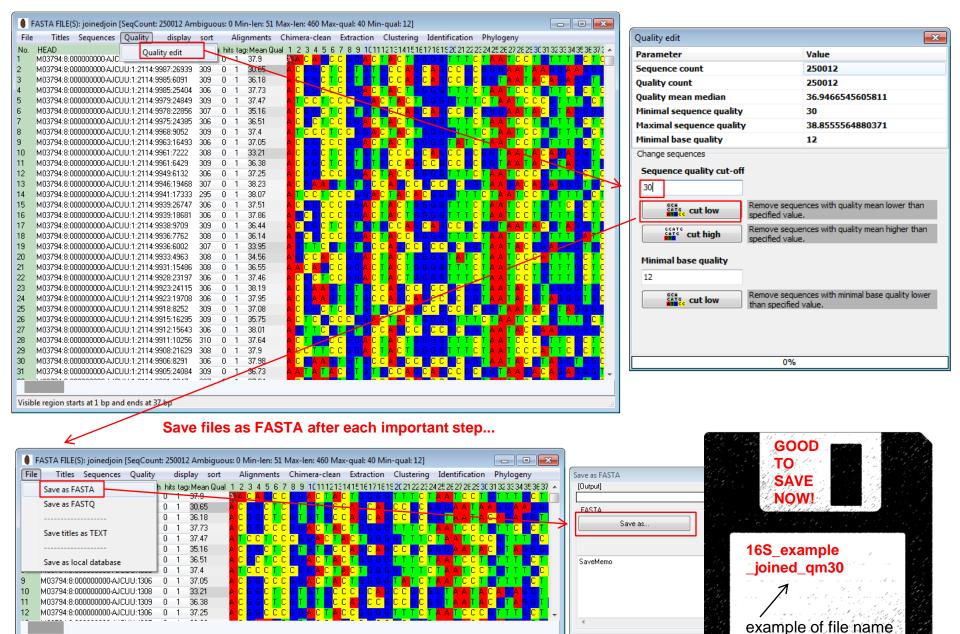
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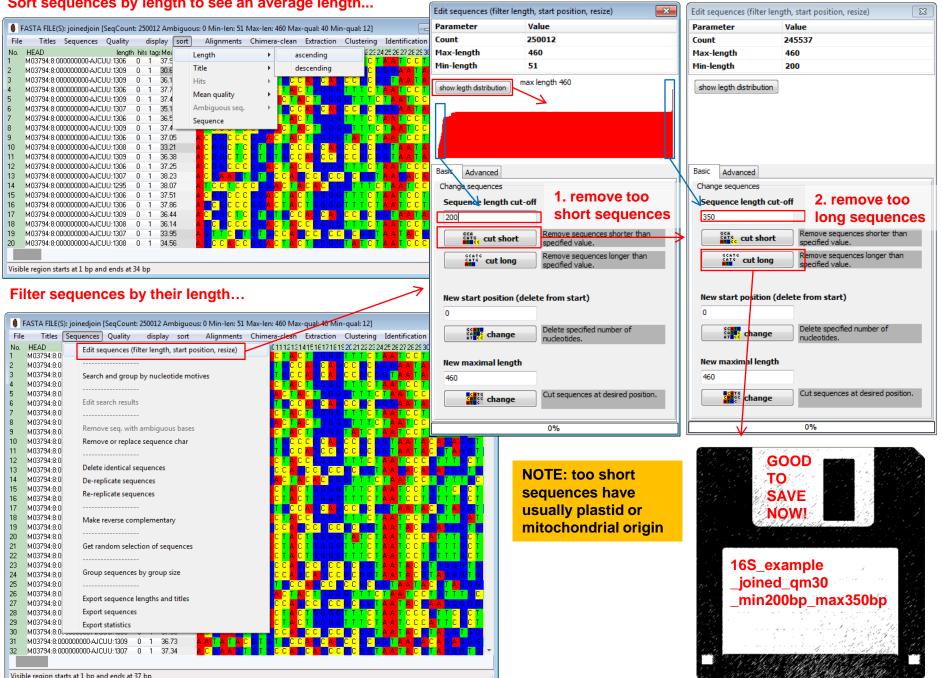
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Filter sequences by their quality...

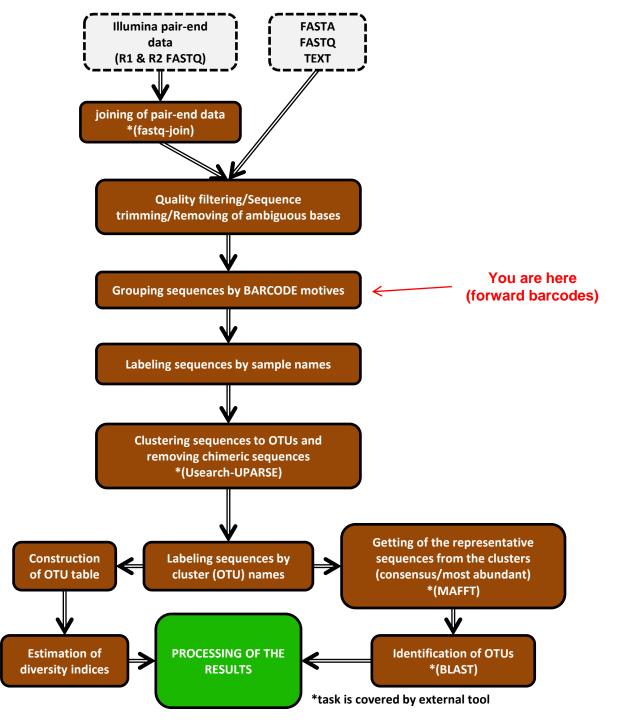


Visible region starts at 1 bp and ends at 37 bp



Sort sequences by length to see an average length...

Visible region starts at 1 bp and ends at 37 bp



				Sequence mo	ativa and	
Forward primer	515F	GTGCCAGCMGCCGCGGTAA		-		
	TA			tag name to search (TAB delimited)		
	515F_T002	ACGAAGTGTGCCAGCMGCCGCGGTAA		ACGAAGTGTGC	515F_T002	
Tagged	515F_T007	AGCCAGTGTGCCAGCMGCCGCGGTAA		AGCCAGTGTGC	515F_T007	
Forward	515F_T008	AGTTCGTGTGCCAGCMGCCGCGGTAA		AGTTCGTGTGC	515F_T008	
primers	515F_T101	ACGGCTCGTGTGCCAGCMGCCGCGGTAA		ACGGCTCGTGTGC	515F_T101	
P	515F_T103	AATATACGTGTGCCAGCMGCCGCGGTAA		AATATACGTGTGC	515F_T103	
Reverse primer	806R	GGACTACHVGGGTWTCTAAT				
	806R_T007	AGCCACCGGACTACHVGGGTWTCTAAT		AGCCACCGGAC	806R_T007	
Tagged	806R_T011	AACAGCCGGACTACHVGGGTWTCTAAT		AACAGCCGGAC	806R_T011	
Reverse	806R_T020	ACTGGCCGGACTACHVGGGTWTCTAAT	\rightarrow	ACTGGCCGGAC	806R_T020	
primers	806R_T029	AGCGCCCGGACTACHVGGGTWTCTAAT		AGCGCCCGGAC	806R_T029	
-	806R_T052	ATCCTCCCGGACTACHVGGGTWTCTAAT		ATCCTCCCGGAC	806R_T052	

Search for the forward tag motives...

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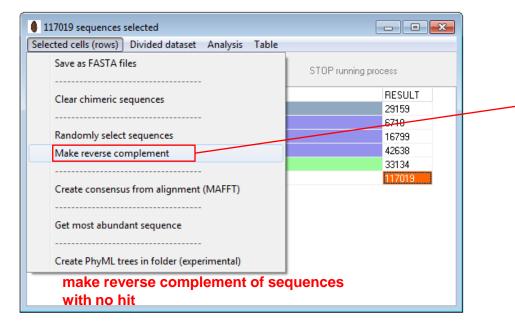
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Visible region starts at 1 bp and ends at 19 bp

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ACGAAGTGTGC	515F_T002	29159
AGCCAGTGTGC	515F_T007	6710
AGTTCGTGTGC	515F_T008	16799
ACGGCTCGTGTGC	515F_T101	42638
AATATACGTGTGC	515F_T103	33134
245459 total	NO HIT	117019
~ 50% of sequence	es are in reverse orie	ntation

117019 sequences selected						
Selected cells (rows) Divid	ed dataset Analysis Table					
с В АСК	Show Selected Fasta	STOP running process				
Sequence	Query	RESULT				
ACGAAGTGTGC	515F_T002	29159				
AGCCAGTGTGC	515F_T007	6710				
AGTTCGTGTGC	515F_T008	16799				
ACGGCTCGTGTGC	515F_T101	42638				
AATATACGTGTGC	515F_T103	33134				
245459 total	NO HIT	117019				
	select seq group by c	uence double-click				

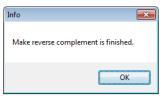
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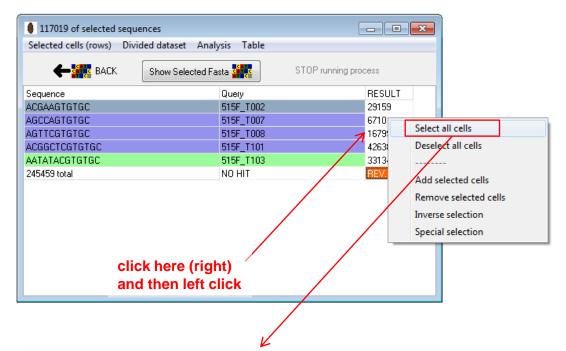


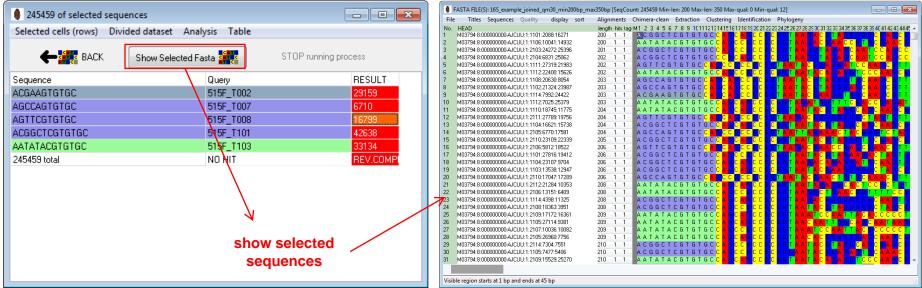
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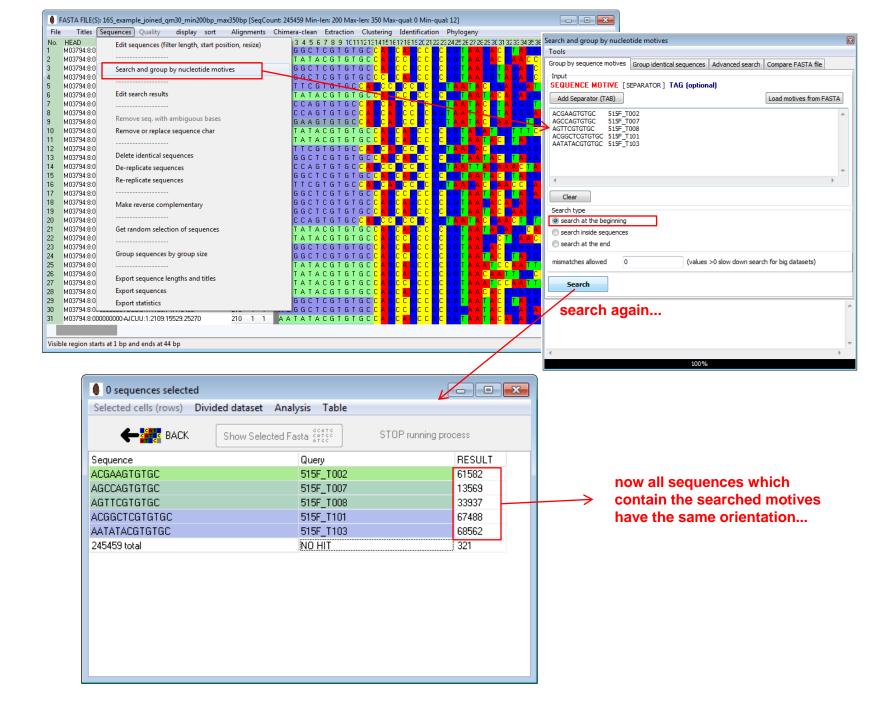


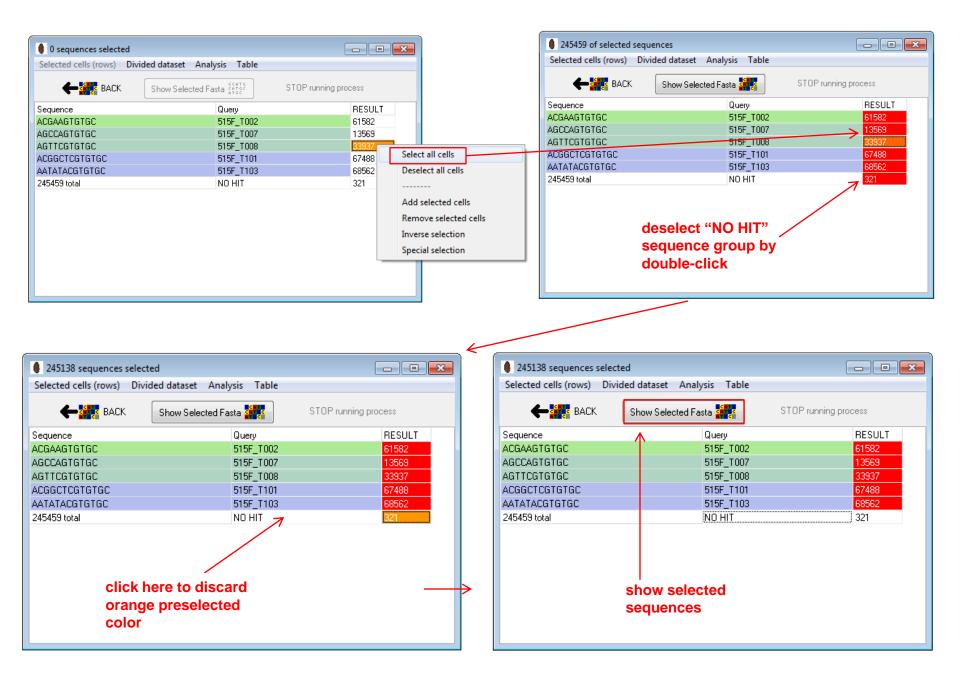
...and then...

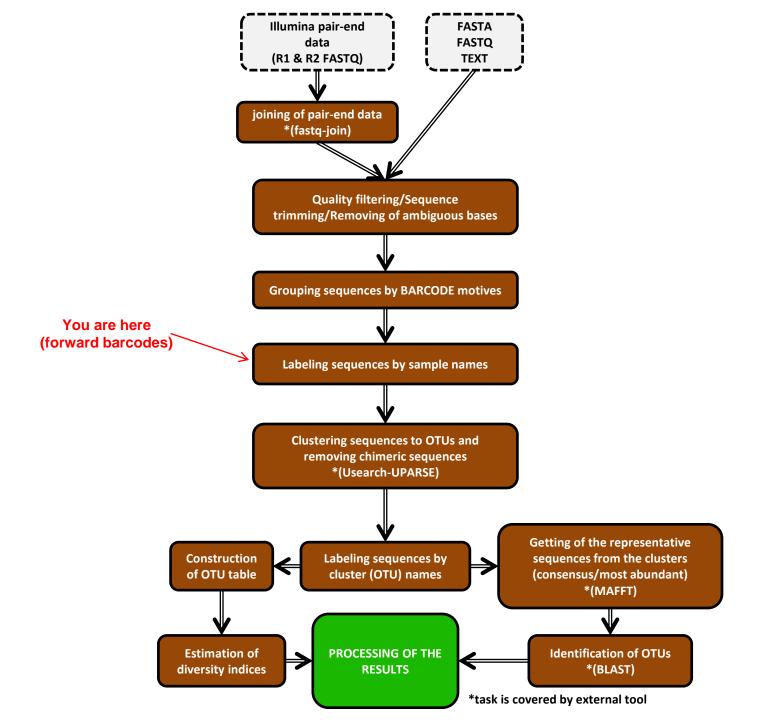








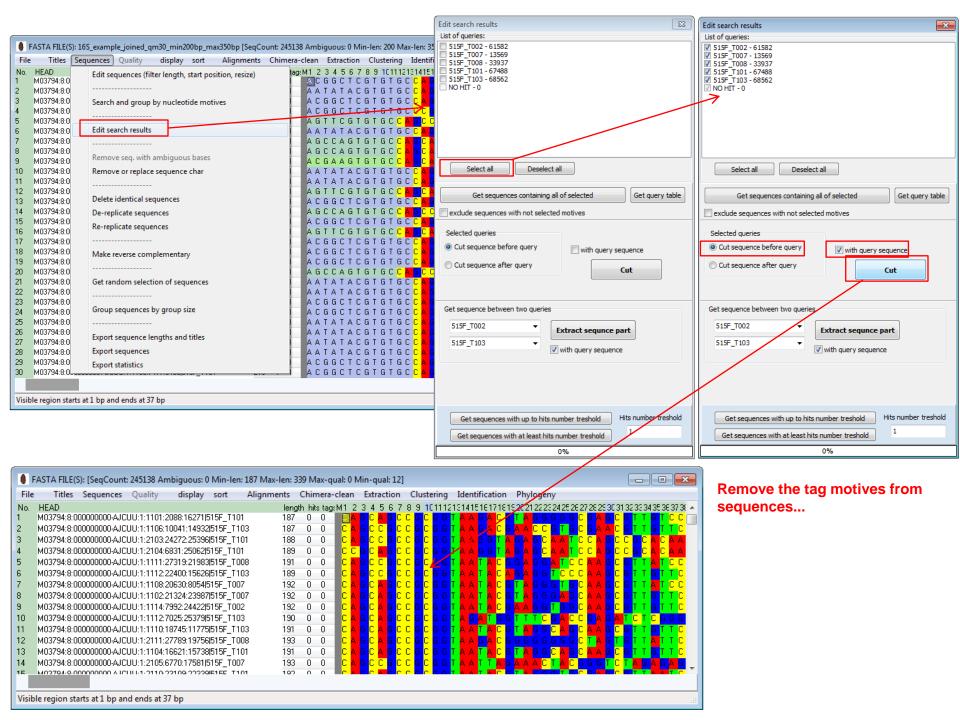






1.114	The sequences Quanty display solt A	giments chimera-clean Extraction clustering identification Phylogeny
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7	M03794:8:00000000-AJCUU:1:1108:20630:80 <mark>54 515F_T007</mark>	203 1 1 AGCCAGTGTGCC <mark>AGCAGCCGGTAATACGTAGGGTGC</mark>
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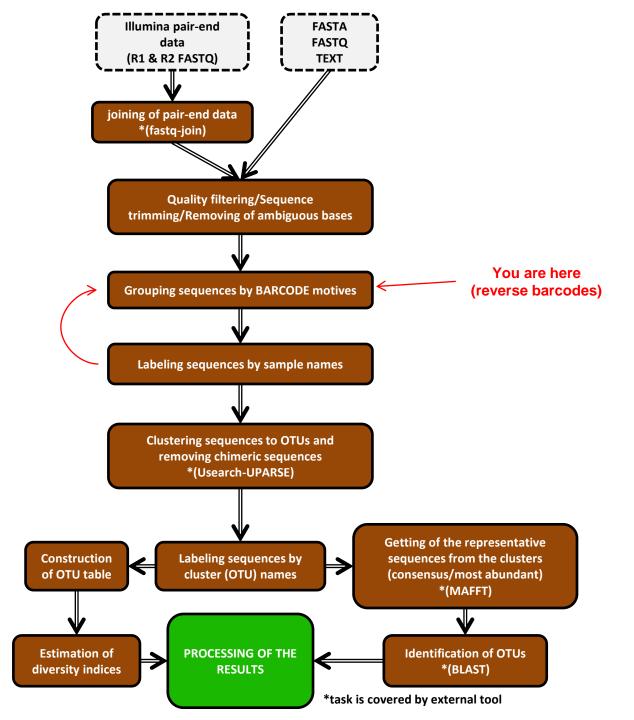
Visible region starts at 1 bp and ends at 37 bp



Remove the rest of the forward primer sequence...

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28 M(03794:8:0	Export sequences	3 6 0 0	sequence	3	G G A G C A A A				
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31 M(03794:8:00000	00000-AJCUU:1:2109:15529:25270[515F_T103	197 0 0							
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		000-AJCUU:1:1111:27319:21983 515F_T008 000-AJCUU:1:1112:22400:15626 515F_T103	176 0 0 TACC 174 0 0 TACA	GAGGATCCAAG				1211 12 12	Set in the set of the	111 11
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Visible region starts at 1 bp and ends at 29 bp



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Input				
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Search for the reverse tag motives...

AGCCACCGGAC	806R_T007	
AACAGCCGGAC	806R_T011	
ACTGGCCGGAC	806R_T020	←
AGCGCCCGGAC	806R_T029	
ATCCTCCCGGAC	806R_T052	

reverse primer

806R GGACTACHVGGGTWTCTAAT

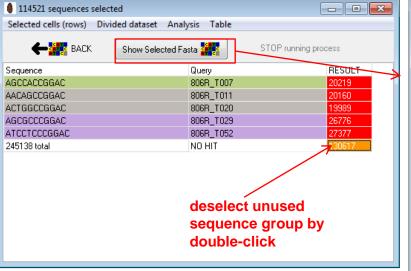
tagged reverse primers

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806R_T011	AACAGCCGGACTACHVGGGTWTCTAAT
806R_T020	ACTGGCCGGACTACHVGGGTWTCTAAT
806R_T029	AGCGCCCGGACTACHVGGGTWTCTAAT
806R_T052	ATCCTCCCGGACTACHVGGGTWTCTAAT

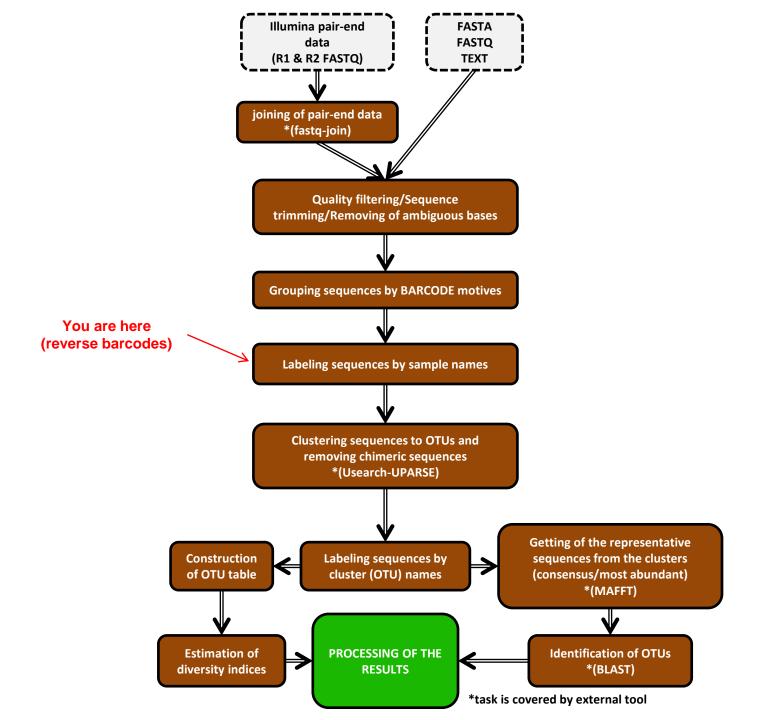
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Sequence	Query	RESULT
AGCCACCGGAC	806R_T007	20219
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ACTGGCCGGAC	806R_T020	19989
AGCGCCCGGAC	806R_T029	26776
ATCCTCCCGGAC	806R_T052	27377
245138 total	NO HIT	130617
click her	re (right) h left click	

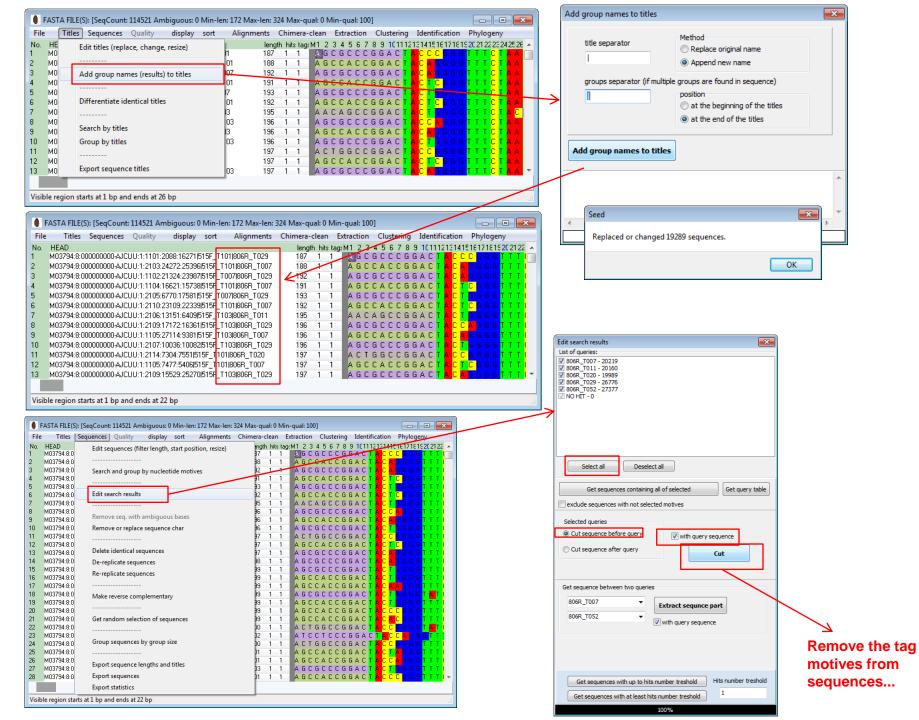
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Sequence	Query	RESULT	
AGCCACCGGAC	806R_T007	20219	
ACAGCCGGAC	806R_T011	20160	Select all cells
ACTGGCCGGAC	806R_T020	19985	Deselect all cells
AGCGCCCGGAC	806R_T029	26776	
ATCCTCCCGGAC	806R_T052	27377	
245138 total	NO HIT	13061	Add selected cells
			Remove selected cells
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		FASTA FILE	(S): [SeqCou	nt: 114521 A	mbiguous: (0 Min-len: 172	Max-len: 3	24 Max-qu	ual: 0 Mir	n-qual: 10	0]					3
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searched sequence motives



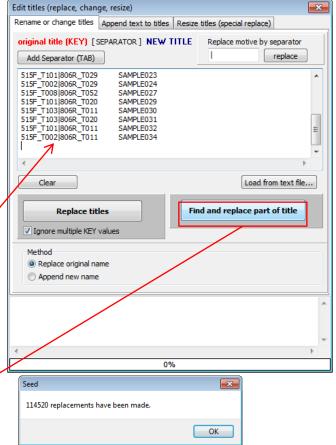


Remove the rest of the reverse primer sequence...

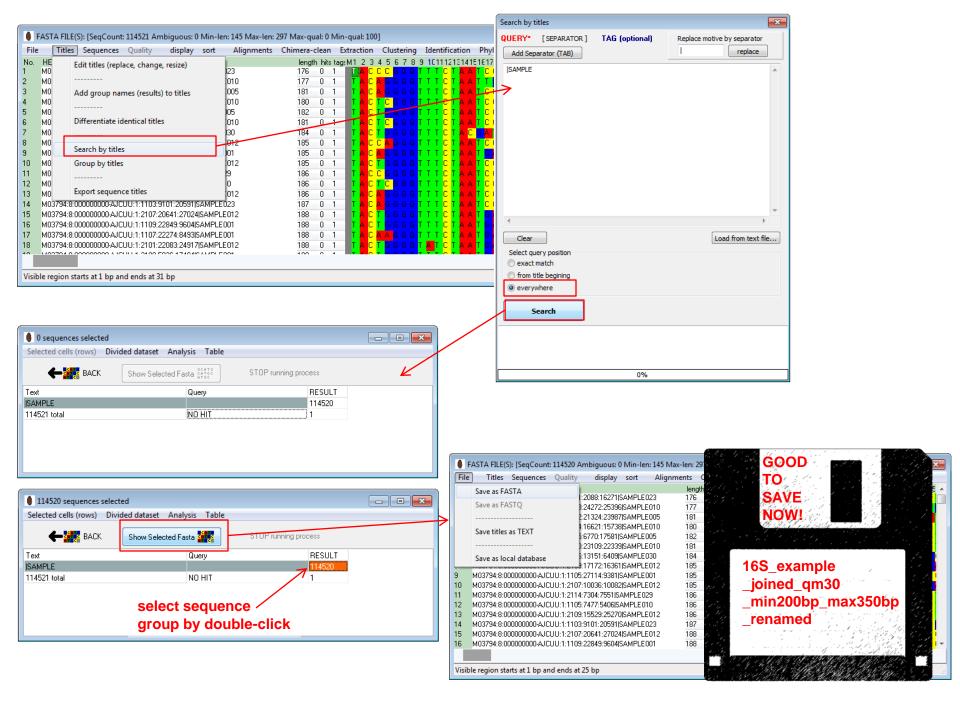
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M03794:8:0	Edit sequences (filter length, start position, res	size) p1 0 0	ACCCGGGTTTCT	A 🛙 <mark>C C T G T T T G C T A</mark>	C C C A C <mark>G C T</mark>	Max-length	313
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M03794:8:0	Search and group by nucleotide motives	6 0 0	TACAGGGGGTTTCT	A A T <mark>C C T G T T T G A </mark> T C	C C C A C G C T		
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M03794:8:0		70 0 0	TACCAGGGTTTCT				
M03794:8:0	Remove seq. with ambiguous bases	70 0 0	TACAGGGGTTTCT/	AT GAACAT CCCCT	TCCCAATT	>	
M03794:8:0	Remove or replace sequence char	70 0 0	T A <mark>C T G G G G T T T C T /</mark>	A T <mark>C C <mark>G G T</mark> C <mark>A T G A </mark>C</mark>	G A A C C T C A		
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M03794:8:0	Delete identical sequences	71 0 0	TACAGGGGTTTCT	A T C C T G T T T G C T C		Change sequences	
M03794:8:0	De-replicate sequences	72 0 0 73 0 0		A T <mark>C C A T T T T G C G C</mark>		Sequence lengt	h cut-off
M03794:8:0 M03794:8:0	Re-replicate sequences	73 0 0		AT GAACATCCCCT		161	
M03794:8:0		73 0 0	TACAAGGGTTTCT		TCCCAATT		
M03794:8:0	Make reverse complementary	73 0 0	TACTGGGGTATCT	A T <mark>G A T G G G A A T A A</mark>	TTCTGAAG		hort Remove sequences shorter than specified value.
M03794:8:0	make reverse complementary	73 0 0	ГАСТ 6 6 6 6 Т Т Т С Т /	A A T <mark>G A A <mark>C A T</mark> C C C C T</mark>	TCCCAATT		specified value.
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M03794:8:0	Get random selection of sequences	73 0 0	T A C A C G G G T T T C T /	A A T <mark>G A A C A T</mark> C C C C T			
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M03794:8:0	Group sequences by group size	75 0 0	the primer		CCCCAGCT	New start positi	ion (delete from start)
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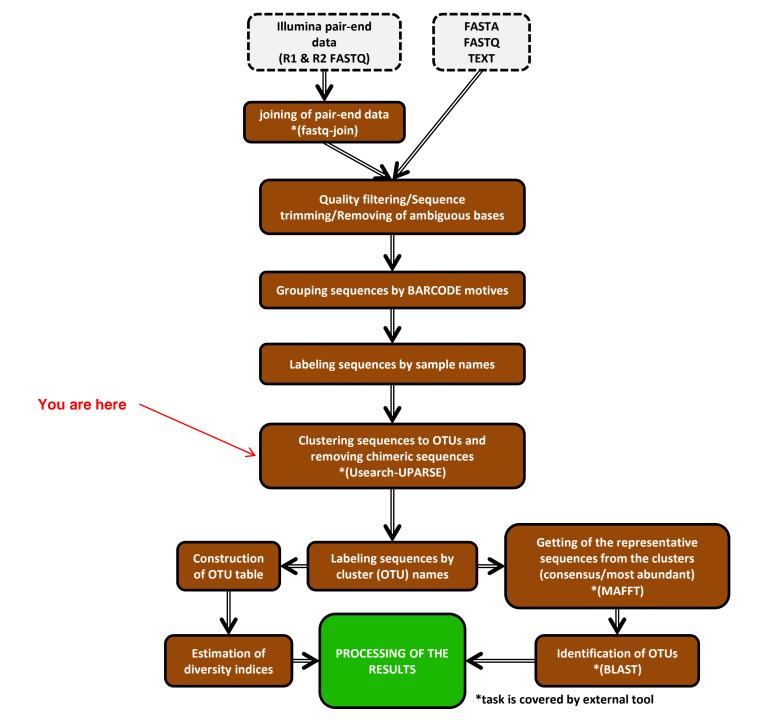
name	FW Primer	REV Primer			
SAMPLE001	515F_T103	806R_T007	515F_T103 806R_T007	SAMPLE001	Edit tit Renar
SAMPLE002	515F_T002	806R_T052	515F_T002 806R_T052	SAMPLE002	origi
SAMPLE005	515F_T007	806R_T029	515F_T007 806R_T029	SAMPLE005	515
SAMPLE006	515F_T101	806R_T052	515F_T101 806R_T052	SAMPLE006	515 515 515
SAMPLE010	515F_T101	806R_T007	515F_T101 806R_T007	SAMPLE010	515 515 515
SAMPLE012	515F_T103	806R_T029	515F_T103 806R_T029	SAMPLE012	I I
SAMPLE019	515F_T002	806R_T020	515F_T002 806R_T020	SAMPLE019	Z
SAMPLE020	515F_T103	806R_T052	515F_T103 806R_T052	SAMPLE020	Иг
SAMPLE021	515F_T002	806R_T007	515F_T002 806R_T007	SAMPLE021	
SAMPLE023	515F_T101	806R_T029	515F_T101 806R_T029	SAMPLE023	-M
SAMPLE024	515F_T002	806R_T029	515F_T002 806R_T029	SAMPLE024	C
SAMPLE027	515F_T008	806R_T052	515F_T008 806R_T052	SAMPLE027	
SAMPLE029	515F_T101	806R_T020	515F_T101 806R_T020	SAMPLE029	
SAMPLE030	515F_T103	806R_T011	515F_T103 806R_T011	SAMPLE030	
SAMPLE031	515F_T103	806R_T020	515F_T103 806R_T020	SAMPLE031	See
SAMPLE032	515F_T101	806R_T011	515F_T101 806R_T011	SAMPLE032	11
SAMPLE034	515F_T002	806R_T011	515F_T002 806R_T011	SAMPLE034	

Replace tag names by sample name...



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File	Titles Sequences Quality	display sort Alignments	Chimera-clean Extraction Clustering Identification Phylogeny	
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1	M03794:8:00000000-AJCUU:1:1101:20	88:1627 SAMPLE023	176 0 1 ACCC <mark>GGGTTTCTAA</mark> TCCT <mark>G</mark> TTT	G C T A C C C A C 🕅
2	M03794:8:00000000-AJCUU:1:2103:24	272:25396 SAMPLE010	177 0 1 <mark>TACAGGGGTTTCT</mark> AA <mark>TTG</mark> CCTGC	GTGGCACTA
3	M03794:8:00000000-AJCUU:1:1102:21	324:23987[SAMPLE005	181 0 1 T <mark>acaggggtttctaatcctg</mark> tt	GATCCCCAC
4	M03794:8:00000000-AJCUU:1:1104:16	621:15738 SAMPLE010	180 0 1 T <mark>ACTCGGGTTTCTAA</mark> TCCT <mark>G</mark> TTC	GCTCCCCAT
5	M03794:8:00000000-AJCUU:1:2105:67	70:17581 SAMPLE005	182 0 1 T <mark>ACTGGGGTTTCTAATCCTG</mark> TTT	G C T C C C C A C
6	M03794:8:00000000-AJCUU:1:2110:23	109:22339 SAMPLE010	181 0 1 T <mark>ACTCGGGTTTCTAA</mark> TCCC <mark>A</mark> TTT	GCTCCCCTA
7	M03794:8:00000000-AJCUU:1:2106:13	151:6409ISAMPLE030	184 0 1 T <mark>ACTGGGGTTTCTACGATAA</mark> CTG	GGCGTACAA
8	M03794:8:00000000-AJCUU:1:2109:17	172:16361 SAMPLE012	185 0 1 T <mark>ACCAGGGTTTCTAA</mark> TCCGGTTA	TGACTAATC
9	M03794:8:00000000-AJCUU:1:1105:27	114:9381SAMPLE001	185 0 1 T <mark>ACAGGGGTTTCTAATGAACA</mark> TC	CCCTTCCCA
10	M03794:8:00000000-AJCUU:1:2107:10	036:10082ISAMPLE012	185 0 1 T <mark>ACTGGGGTTTCTAATCCGGTCA</mark>	TGACGAACC
11	M03794:8:00000000-AJCUU:1:2114:73	04:7551 6AMPLE029	186 0 1 T <mark>ACCGGGGGTTTCTAATCCCATTC</mark>	GCTCCCCTA -
Visi	ble region starts at 1 bp and ends at 39	bp		





Clustering sequences using USEARCH...

FASTA FILE(S): [SeqCount: 114520 Ambigue						Complete-link clustering (USEARCH)	
			n Extraction Clustering Ident	tification Phylogeny		USEARCH execute path:	
No. HEAD		h hits tag∈M1 2		nk clustering or UPARSE (USEARCH	B4 35 36 37 3 🔺		SION\usearch8.1.1861_win32\usearch8.1.186
M03794:8:00000000-AJCUU:1:1101:2088:1(0 1					
M03794:8:00000000-AJCUU:1:2103:24272:3		0 1 14	A <mark>c a <mark>g g g g t t t c t</mark> a a</mark>	T T G C C T G C G T G G C A		4	
M03794:8:00000000-AJCUU:1:1102:21324:2		0 1 1	A <mark>C A <mark>G G G G T T T C T</mark> A A</mark>			Parameters	
M03794:8:00000000-AJCUU:1:1104:16621:1		0 1 T		T C C T G T T C G C T C C C			
M03794:8:00000000-AJCUU:1:2105:6770:1 M03794:9:00000000 AJCUU:1:2110:22109:1		0 1 TA		T C C T G T T T G C T C C C T C C C A T T T G C T C C C		Cluster label: CL All gene	rated cluster names will stat with that
M03794:8:00000000-AJCUU:1:2110:23109: M03794:8:00000000-AJCUU:1:2106:13151:0 M03794:8:00000000-AJCUU:1:2106:13151:0		0 1 TA					
 M03794:8:00000000-AJCUU:1:2106:13151:0 M03794:8:00000000-AJCUU:1:2109:17172:1 				GATAACTGGGCGTA		UPARSE	
M03734.8.00000000-AJCUU:1:1105:27114:				T G A A C A T C C C C T T C			
0 M03794:8:000000000-AJCUU:1:2107:10036:		0 1 1				Cluster OTUs (UPARSE)	OTU radius: 3 %
1 M03794:8:00000000-AJCUU:1:2114:7304:75		0 1 1 4	ACCGGGGGTTTCTAA				
2 M03794:8:00000000-AJCUU:1:1105:7477:5/		0 1 T A		тсссттттсстссс		Input sequences must be globally alignable with no duster_otus considers terminal gaps to be different	o terminal gaps. This is critically important as nees, unlike other commands, (guality
3 M03794:8:00000000-AJCUU:1:2109:15529:3		0 1 T A	A <mark>C A <mark>G G G G T T T C T</mark> A A</mark>			filtered and globally trimmed)	
4 M03794:8:00000000-AJCUU:1:1103:9101:20	0591 SAMPLE023 187	0 1 T A	A <mark>C A <mark>G G G G T T T C T</mark> A A</mark>	T C C A T T T T G C G C C C		Chimeric sequences exclusion works well with 3 %	OTU radius.
5 M03794:8:00000000-AJCUU:1:2107:20641:3		0 1 T A	A <mark>C T <mark>G G G G T T T C T</mark> A A</mark>	T G A A C A T C C C C T T C	C C A A T A G A		
6 M03794:8:00000000-AJCUU:1:1109:22849:	9604 SAMPLE001 188	0 1 T A	A <mark>C T <mark>G G G G </mark>T T T <mark>C T</mark> A A</mark>	. <mark>T G</mark> A A <mark>C A </mark> T C C C C T T C	CCAATTAGA -		
							A
				/			
/isible region starts at 1 bp and ends at 37 bp							
C:\seed_data\SEED_PROGRAMS_NEW_VERSION\usea	arch8.1.1861_win32\usearch8.1.1861_win	n32.exe					
usearch v8.1.1861_win32, 2.0Gb RAM (8	.5Gb total), 8 cores						
(C) Copyright 2013-15 Robert C. Edgar http://drive5.com/usearch	, all rights reserved.						
http://drives.com/usearch						4	×
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00:11 49Mb 9.3% 2149 OTUs, 1849 c	nimeras (19.6%)						
0 sequences selected				11777 convences colorted	1		2 show salacted
O sequences selected Selected cells (cours) Divided detects App	skuis Takla			71777 sequences selected			2. show selected
O sequences selected Selected cells (rows) Divided dataset Ana	alysis Table	_			l ed dataset Analysis Table		
	-					STOP running process	2. show selected sequences
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Selected cells (rows) Divided dataset Ana • • • • • • • • • • • • •	STOP running Fasta \$\$\$\$\$\$ STOP running Group name: CL00001 CL00002 CL00003 CL00003 CL00004 CL00005 CL00006 CL00007 CL00008 CL00010 CL00010 CL00011 CL00011 CL00012 CL00013 CL00014 CL00014 CL00017 CL00017 CL00018 CL00019 CL00020 CL00021 CL00021 CL00021	ng process 3343 2267 2216 1711 1616 1320 1312 1150 670 632 625 617 612 530 485 485 485 485 485 445 445 442 424 386 380	Select all cells Deselect all cells Add selected cells Remove selected cells Inverse selection	Selected cells (rows) Divid Mo. 12358 12359 12350 12361 12362 12363 12364 12365 12366 12365 12366 12367 12368 12369 12370 12371 12372 12374 12375 12376 12376 12377 12378 12379	ed dataset Analysis Table Show Selected Fasta Group name: CL12359 CL12360 CL12361 CL12362 CL12363 CL12364 CL12364 CL12364 CL12364 CL12365 CL12367 CL12367 CL12370 CL12370 CL12370 CL12371 CL12372 CL12373 CL12374 CL12375 CL12375 CL12376 CL12375 CL12376 CL12376 CL12377 CL12377 CL12377		1. remove chimeric sequences from



_min200bp_max350bp

renamed clustered

GG

188

188 0 1

188 0

188 0 1

188 0

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1

12

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14

15

16

M03794:8:00000000-AJCUU:1:2107:20641:27024[SAMPLE 012]CL00587

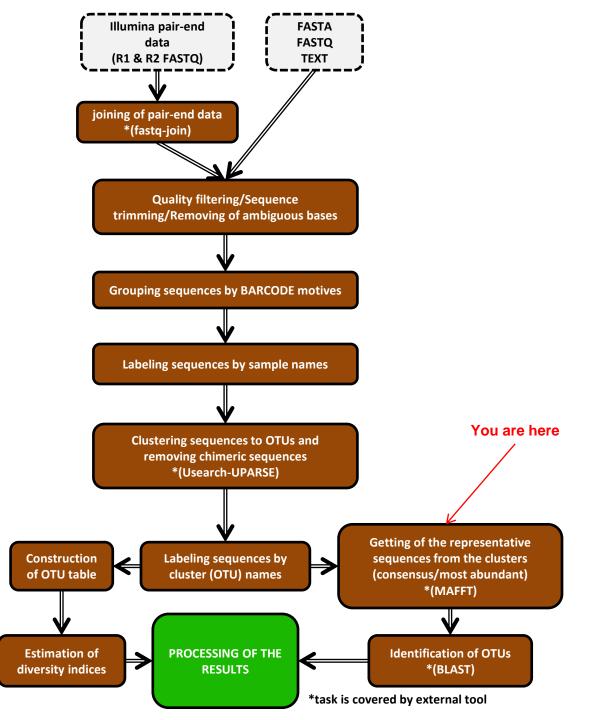
M03794:8:000000000-AJCUU:1:1109:22849:9604|SAMPLE001|CL00587

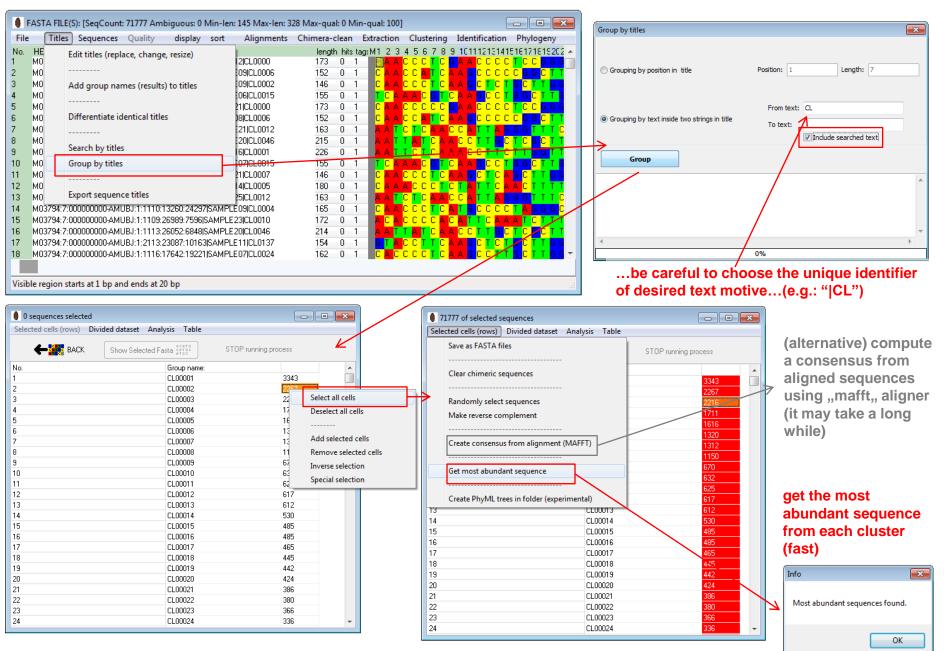
M03794:8:00000000-AJCUU:1:1107:22274:8493|SAMPLE001|CL00587

M03794:8:00000000-AJCUU:1:2101:22083:24917[SAMPLED12]CL07187

M03794:8:000000000-AJCUU:1:2109:5036:17484ISAMPLE001ICL00587

Visible region starts at 1 bp and ends at 21 bp

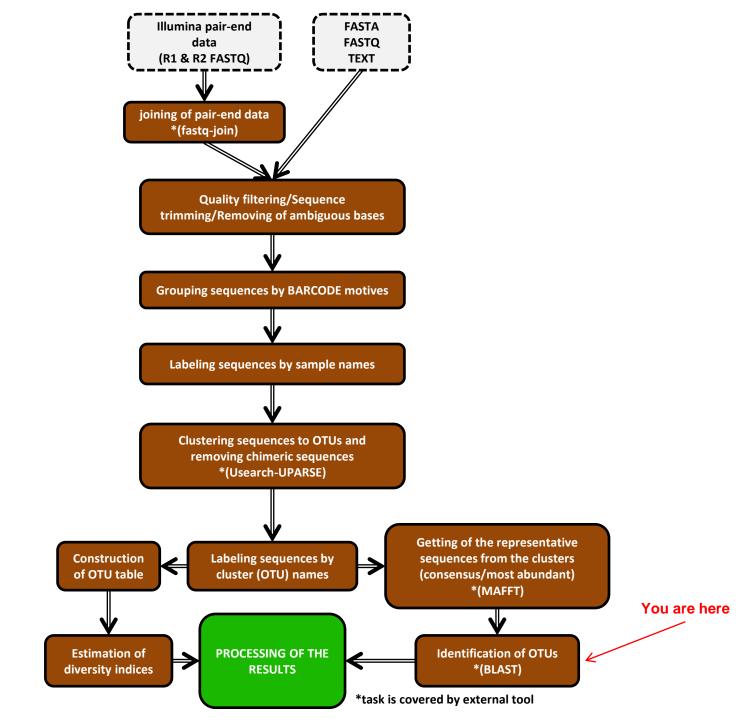




Get clusters (OTUs) representative sequences...

OUTs representative sequences - the most abundant sequences...

FASTA FILE(S): [SeqCount: 12380 Ambig	guous: 0 Min-len: 145 Max-len: 328 Max-qual: 0 Min-qual: 100]			
File Titles Sequences Quality	display sort Alignments Chimera-clean Extraction Cluster	ring Identification Phylogeny	\square CLOOO1 $ MOSIABUN$	11) $n=3343/144$
	display sort Alignments Chimera-clean Extraction Cluster		GOOD	ID n=3343/144 number of sequence s in group number of most abundant identical sequences in group
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Identification of representative sequences...

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3	CL00003 M	OSTABUND n=	=2216/246		28) 1		ΤA	СТ	G G		6 T 1	T T I	с т (A A <mark>T</mark>		Ta	xonoi	my by	/ acc	ession (or tax	ID
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5	CL00005 M	OSTABUND(n=	=1616/76		28	84 () 1		ΤA	СТ	GG		6 T 1	T T I	С Т 🖌	A A <mark>T</mark>	с с,	a G	ТΤ	t <mark>g (</mark>	СТ	СС(
6	CL00006[M	OSTABUND[n=	=1320/54		28	1 14) 1		TA	СТ	G G		i T 1	T T I	ст и	A A T	c⁄C	ΤG	ТΤ	t <mark>g (</mark>	СТ	СС(
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12	CL00012 M	OSTABUND[n=	=617/28		28	4 () 1		TA	СТ	G G			ТТ	ст И	A A T	СС	ΤG	ТΤ	CG	СТ	сс(
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Visib	le region st	arts at 1 bp ar	nd ends at 28	8 bp																				

NCBI BLAST (16S_example_joined_qm	30_min200bp_max35	0bp_renamed_	clustered_most	Abund)											
BLAST Identification Table Results	_														
Run BLAST (settings)	Info		RE	ADY FOR: blastn											
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CL00005 MOSTABUND n=1616/76															
CL00006 MOSTABUND n = 1320/54															
CL00007 MOSTABUND n=1312/28															
CL00008 MOSTABUND n=1150/79															
CL00009 MOSTABUND n=670/32															
CL00010 MOSTABUND n=632/1															
CL00011 MOSTABUND n=625/16															
CL00012 MOSTABUND n=617/28															
CL00013 MOSTABUND n=612/13															
CL00014 MOSTABUND n=530/10															
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Specification	Specification	
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NOT (environmental samples[organism] OR metagenomes[organism] OR unidentified[organism])	 NOT (environmental samples[organism] OR metagenomes[organism] OR unidentified[organism]) 	-
Choose a BLAST program to run: blastn	Choose a BLAST program to run: blastn 🗸	
Parameters	Parameters	
Type: megablast 👻 Tasks at the same time: 10	Type: megablast - Tasks at the same time: 10	
Results per sequence: 10	Results per sequence: 10	
E-value threshold: 0.00001	E-value threshold: 0.00001	
Restart FAILED and UNDONE RUN (removes previous results)	Restart FAILED and UNDONE RUN (removes previous results)	

	blastn			RUNNING Finished 22 / 12380 (Memory us	age: 31102 b	ytes)		exp	5011	Niu	311	0.50	11.5		
EQ TITLE	STATUS	Sel Result	Accession	Description	E value	Max score	Total score	Query from	Query to	Hit from	Hit to	Identity	Positive	Similarity[%]	Coverage[%]
L00001 MOSTABUND n=3343/144	blastn	1/10	KJ468102	Robinia pseudoacacia chloroplast, complete genome2	9.36053e-1	520.029	281	1	284	103447	103164	283	283	99.6	100.0
L00002 MOSTABUND In = 2267/5	blastn	1/10	KX931469	Yucca schidigera chloroplast, complete genome2	5.63359e-1	510.796	276	6	284	103987	103709	278	278	99.6	98.2
1.00003 MOSTABUND n=2216/246	blastn	1/10	JQ997445	Uncultured Microcoleus sp. clone GKJWQY101A26TV 1	9.36053e-1	520.029	281	1	284	410	127	283	283	99.6	100.0
L00004 MOSTABUND n=1711/58	blastn	1/10	Y07576	Uncultured bacterium 16S rRNA gene (clone DA101)2	4.35503e-1	514.489	278	1	284	804	521	282	282	99.3	100.0
L00005 MOSTABUND n=1616/76	blastn	1/10	CP017922	Candidatus Nitrosocosmicus sp. G61, complete genom	2.69628e-1	438.776	237	6	284	1787923	1787645	266	266	95.3	98.2
L00006 MOSTABUND n = 1320/54	blastn	1/10	KY352819	Bacillus drentensis strain JSM 05182050 16S ribosomal	5.63359e-1	510.796	276	6	284	766	488	278	278	99.6	98.2
L00007 MOSTABUND n=1312/28	blastn	1/10	HM748709	Bacterium Ellin6561 16S ribosomal RNA gene, partial se	1.21946e-1	499.716	270	6	284	711	433	276	276	98.9	98.2
L00008 MOSTABUND n = 1150/79	blastn	1/10	KP238425	Arthrobacter sp. SBT358 16S ribosomal RNA gene, par	1.56635e-1	512.642	277	5	284	696	417	279	279	99.6	98.6
L00009 MOSTABUND n=670/32	blastn	1/10	JN872551	Lotus japonicus strain MG-20 mitochondrion, complete	7.22944e-1	507.102	274	6	282	175360	175084	276	276	99.6	98.2
L00010 MOSTABUND n=632/1	blastn	1/10	KX768420	Rosa roxburghii chloroplast, complete genome2	2.62105e-1	505.256	273	6	284	103040	102761	278	278	99.6	98.2
L00011 MOSTABUND n=625/16	blastn	1/10	KP701021	Bacillus cereus strain RP12 16S ribosomal RNA gene, p	7.28751e-1	507.102	274	5	284	772	493	278	278	99.3	98.6
L00012 MOSTABUND n=617/28	blastn	1/10	LC196157	Nocardioides sp. PD653 gene for 16S ribosomal RNA, p	2.62105e-1	505.256	273	6	284	763	485	277	277	99.3	98.2
L00013 MOSTABUND n=612/13	in progress														
L00014 MOSTABUND n=530/10	in progress														
L00015 MOSTABUND n=485/32	blastn	1/10	KP728465	Candidatus Electronema nielsenii isolate Freshwater_G	2.8132e-08	339.057	183	6	284	805	527	249	249	89.2	98.2
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CL00001 MOSTABUND n=	Get table - all h	its		KJ468102	Robinia pseu
CL00002 MOSTABUND n=2267/5	;	blastn	1/10	KX931469	Yucca schidi
CL00003 MOSTABUND n=2216/2	46	blastn	1/10	JQ997445	Uncultured N
CL00004 MOSTABUND n=1711/5	8	blastn	1/10	Y07576	Uncultured t
CL00005 MOSTABUND n = 1616/7	6	blastn	1/10	CP017922	Candidatus I
CL00006 MOSTABUND n=1320/5	i4	blastn	1/10	KY352819	Bacillus dren
CL00007 MOSTABUND n=1312/2	8	blastn	1/10	HM748709	Bacterium El
CL00008 MOSTABUND n=1150/7	9	blastn	1/10	KP238425	Arthrobacte
CL00009 MOSTABUND n=670/32		blastn	1/10	JN872551	Lotus japoni
CL00010 MOSTABUND n=632/1		blastn	1/10	KX768420	Rosa roxbur
CL00011 MOSTABUND n=625/16		blastn	1/10	KP701021	Bacillus cere
CL00012 MOSTABUND n=617/28		blastn	1/10	LC196157	Nocardioide: ¬
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squence 29 identification started -query "C:lseed_data Working\(229.fas" -strand both -task megablast -db "nr" -out "C: lseed_data Working\(23.eta) - evalue 1E-5 -outfint 5 -remote -max_target_seqs 10 -entrez_query "NOT (environmental samples[organism] OR metagenomes[organism] OR unidentified[organism])" 265468 Loading nodes...

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Get taxonomic classification (custom made database example)...

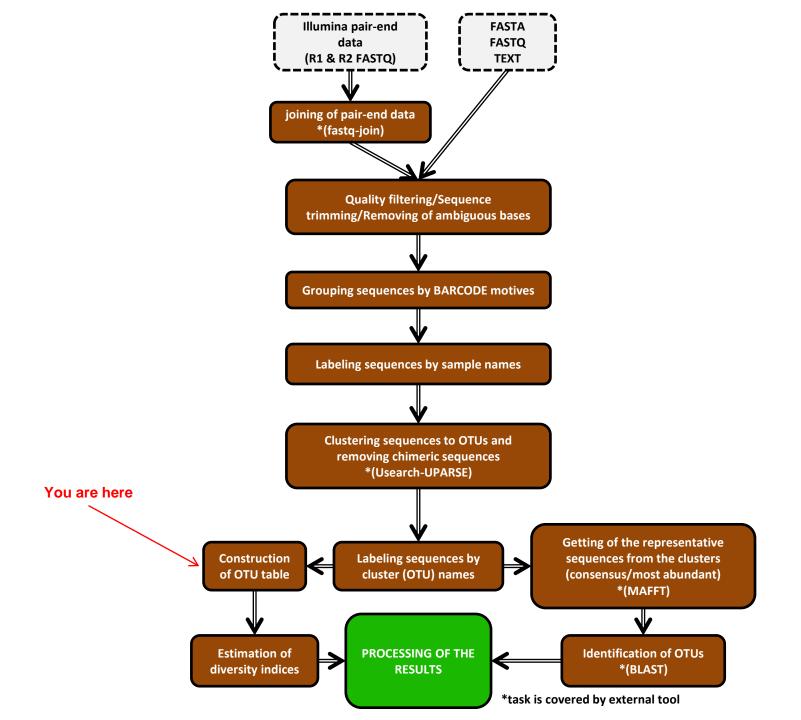
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		Halospirulina sp). E 98.2	98.2				\searrow							2		
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CL00004/MOSTABUND/IN=1/11/58	1/10	Tychonema sp. Chthoniobacter	SA 99.6 fla 92.3	100.0 100.0				7	7		t: -	nclude sea	earched te	ext			
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CL00004 MOSTABUND n=1711/38 CL00005 MOSTABUND n=1616/76 CL00006 MOSTABUND n=1320/54 CL00007 MOSTABUND n=1312/28 CL00008 MOSTABUND n=1150/79 CL00009 MOSTABUND n=670/32 CL00010 MOSTABUND n=632/1	1/10 1/10 1/10 1/10 1/3 1/10	Tychonema sp. Chthonidbacter Thermocrinis m Rhizobium sp. 0 Paenibacillus sp Arthrobacter cl Arthrobacter a Halospirulina sp	SA 99.6 fla 92.3 ner 83.9 CAF 99.6 0. 2 98.9 nlor 99.6 nta 76.2 0. E 99.3	100.0 100.0 30.6 98.2 98.2 98.6 98.2 98.2 98.2					H T C T F	To tex lalospirulina lalospirulina ychonema ththoniobao hermocrinis	t: - Ir a sp. EF17 a sp. EF17 sp. SAG 2 cter flavus s minervag	(20 12) (J) (20 (2) (J) (3, 89 (KM0 5 (T); Ellin (T); CR 1	X912466- X912466- 019964-1 1428 AY38 11 AM260	-1254278 -1254278 1521511 88649-49 0555-38 2	8 Bacteria Bacteria; 97964 Ba 1751 Bact		
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CL00004 MOSTABUND n=1711/38 CL00005 MOSTABUND n=1616/76 CL00006 MOSTABUND n=1320/54 CL00007 MOSTABUND n=1312/28 CL00008 MOSTABUND n=1150/79 CL00009 MOSTABUND n=670/32 CL00010 MOSTABUND n=632/1 CL00011 MOSTABUND n=625/16 CL00012 MOSTABUND n=617/28	1/10 1/10 1/10 1/10 1/3 1/10 1/10 1/10	Tychonema sp. Chthonidbacter Thermocrinis m Rhizobium sp. Q Paenibacillus sp Arthrobacter cl Arthrobacter a Halospirulina sp Bacillus cereus; Nocardioides kr	SA 99.6 ft 92.3 ner 83.9 CAF 99.6 o. 2 98.9 nlor 99.6 nta 76.2 o. E 99.3 PA 99.3 ibb 99.3	100.0 100.0 30.6 98.2 98.6 98.2 98.2 98.2 98.2 98.6 98.2 98.6 98.2					H T C T F	To tex lalospirulina lalospirulina hthoniobad hermocrinis hizobium sp	t: - a sp. EF17 a sp. EF17 sp. SAG 2 cter flavus s minervag p. CAF421	(2017) []) (20(2) []) 3. 89 [KM0 (1); Ellin- (T); CR1 []FJ40537 []FJ40537	X912466- X912466- 019964-1 1428 AY33 11 AM260 77-57337 2466 9964	-1254278 -1254278 1521511 88649-49 0555-38 2	Bacteria Bacteria; 97964 Ba 1751 Bact ria; Prote		
LL00004 MOST ABUND n = 1711/38 CL00005 MOSTABUND n = 1616/76 CL00006 MOSTABUND n = 1320/54 CL00007 MOSTABUND n = 1312/28 CL00008 MOSTABUND n = 1150/79 CL00009 MOSTABUND n = 670/32 CL00001 MOSTABUND n = 632/1 CL00001 MOSTABUND n = 625/16 CL00011 MOSTABUND n = 617/28 CL00013 MOSTABUND n = 612/13	1/10 1/10 1/10 1/10 1/3 1/10 1/10	Tychonema sp. Chthonidbacter Thermocrinis m Rhizobium sp. 0 Paenibacillus sp Arthrobacter cl Arthrobacter a Halospirulina sp Bacillus cereus;	SA 99.6 ft 92.3 ner 83.9 CAF 99.6 o. 2 98.9 nlor 99.6 nta 76.2 o. E 99.3 PA 99.3 ibb 99.3	100.0 100.0 30.6 98.2 98.6 98.2 98.6 98.2 98.2 98.2 98.6					H T C T F	To tex lalospirulina lalospirulina hthoniobad hermocrinis hizobium sp	t: - a sp. EF17 a sp. EF17 sp. SAG 2 cter flavus s minervag p. CAF421	(2012)[J) (2012)[J) 3.99[KM0 (T); Ellin- (T); CR1 (T); CR1 (F)4053; M0129 KM019 AY388 AM260	X912466- X912466- 019964-1 1428 [AY33 11]AM260 77-57337 2466 9964 8649 0555	-1254278 -1254278 1521511 88649-49 0555-38 1	Bacteria Bacteria; 97964 Ba 1751 Bact ria; Prote		
LL00004 MOSTABUND n=1711/38 CL00005 MOSTABUND n=1616/76 CL00006 MOSTABUND n=1320/54 CL00007 MOSTABUND n=1312/28 CL00008 MOSTABUND n=1150/79 CL00009 MOSTABUND n=670/32 CL00001 MOSTABUND n=632/1 CL00001 MOSTABUND n=625/16 CL00011 MOSTABUND n=617/28 CL00013 MOSTABUND n=612/13 CL00014 MOSTABUND n=632/1	1/10 1/10 1/10 1/10 1/3 1/10 1/10 1/10	Tychonema sp. Chthonidbacter Thermocrinis m Rhizobium sp. Q Paenibacillus sp Arthrobacter cl Arthrobacter a Halospirulina sp Bacillus cereus; Nocardioides kr	SA 99.6 fta 92.3 ner 83.9 CAF 99.6 o. 2 98.9 nlor 99.6 nta 76.2 o. E 99.3 PA 99.3 ibb 99.3 p. '99.6	100.0 100.0 30.6 98.2 98.6 98.2 98.2 98.2 98.2 98.6 98.2 98.6 98.2					H T C T F	To tex lalospirulina lalospirulina hthoniobad hermocrinis hizobium sp	t: - a sp. EF17 a sp. EF17 sp. SAG 2 cter flavus s minervag p. CAF421	(2017)[]) (20(2)[3) 3, 99[KM0 (1); Ellin- (T); CR1 (T); C	X912466- X912466- 019964-1 1428 [AY33 11]AM260 77-57337 2466 9964 8649 0555	-1254278 -1254278 1521511 88649-49 0555-38 1	Bacteria Bacteria; 97964 Ba 1751 Bact ria; Protei		
LL00004 MOSTABUND n=1711/38 CL00005 MOSTABUND n=1616/76 CL00006 MOSTABUND n=1320/54 CL00007 MOSTABUND n=1312/28 CL00008 MOSTABUND n=1150/79 CL00009 MOSTABUND n=670/32 CL00001 MOSTABUND n=632/1 CL00001 MOSTABUND n=625/16 CL00011 MOSTABUND n=617/28 CL00013 MOSTABUND n=612/13 CL00014 MOSTABUND n=632/1	1/10 1/10 1/10 1/10 1/3 1/10 1/10 1/10 1	Tychonema sp. Chthonidbacter Thermocrinis m Rhizobium sp. Paenibacillus sp Arthrobacter cl Arthrobacter a Halospirulina sp Bacillus cereus; Nocardioides kr Tetrasphaera s	SA 99.6 fta 92.3 ner 83.9 CAF 99.6 o. 2 98.9 nlor 99.6 nta 76.2 o. E 99.3 PA 99.3 ibb 99.3 p. '99.6	100.0 100.0 30.6 98.2 98.6 98.2 98.2 98.2 98.2 98.2 98.2 98.2					H T C T F	To tex lalospirulina lalospirulina hthoniobad hermocrinis hizobium sp	t: - a sp. EF17 a sp. EF17 sp. SAG 2 cter flavus s minervag p. CAF421	(2012)[J) (2012)[J) 3.99[KM0 (T); Ellin- (T); CR1 (T); CR1 (F)4053; M0129 KM019 AY388 AM260	X912466- X912466- 019964-1 1428 [AY33 11]AM260 77-57337 2466 9964 8649 0555	-1254278 -1254278 1521511 88649-49 0555-38 1	Bacteria Bacteria; 97964 Ba 1751 Bact ria; Protei		

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Find taxonomy	Sel Result	Accession	Description Similarity[%] Coverage[%Taxid	Lineage	superkingdo kingdom	subkingdom superphylum	ohvlum
	1/10	JX912466	Halospirulina sp. E 98.6	100.0	cincage	Super kingdo kingdom	Subkingdom Superpriyiun	priyidin
Refind 4	1/10	JX912466		98.2				
	-,		Halospirulina sp. E 98.2					
Up to genera 6	1/10	KM019964	Tychonema sp. SA 99.6	100.0				
Up to families	1/10	AY388649	Chthoniobacter fla 92.3	100.0		Get taxonom	c classification	on
Up to orders	1/10	AM260555	Thermocrinis miner 83.9	30.6		by accession	number	
200000 IN 031 ADOIND IN-1320/34	1/10	FJ405377	Rhizobium sp. CAF 99.6	98.2				
CL00007 NOSTABUND n=1312/28	1/10	EU571199	Paenibacillus sp. 298.9	98.2				
CL00008 00STABUND n=1150/79	1/10	JQ277449	Arthrobacter chlor 99.6	98.6				
CL00009 MOSTABUND n=670/32	1/3	KF025983	Arthrobacter anta 76.2	98.2				
CL00010 MOSTABUND n=632/1	1/10	JX912466	Halospirulina sp. E 99.3	98.2				
CL00011 MOSTABUND In =625/16	1/10	KM495607	Bacillus cereus; PA 99.3	98.6				
CL00012 MOSTABUND n = 617/28	1/10	KP072762	Nocardioides kribb 99.3	98.2				
CL00013 MOSTABUND n=612/13	1/10	EU707564	Tetrasphaera sp. '99.6	98.2				
CL00014 MOSTABUND n=530/10								
CL00015 MOSTABUND n = 485/32	1/10	EU315115	Desulfonatronum : 87.8	98.2				

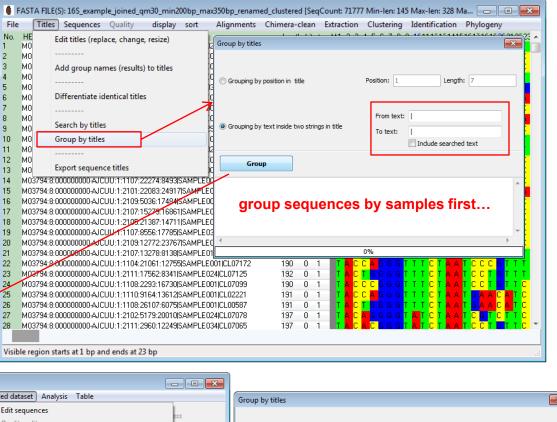
Taxonomy Insert accession numbers/taxi	ds Tabl	e														
SEQ TITLE		Get table	cription	Similarity[%]	Coverage[%]	Taxid	Lineage superkingdom	kingdom	subkingdom	superphylum	phylum	subphylum	superclass	class	subclass	su
CL00001 MOSTABUND n=3343/144	1/10	JX912466	Halospirulina sp. f	98,6	100.0	1254278	cellular (Bacteria				Cyanobacteria					
CL00002 MOSTABUND n=2267/5	1/10	JX912466	Halospirulina sp. E	98.2	98.2	1254278	cellular (Bacteria				Cyanobacteria					
CL00003 MOSTABUND n=2216/246	1/10	KM019964	Tychonema sp. S/	99.6	100.0	1521511	cellular (Bacteria				Cyanobacteria				Oscillatorio	o
CL00004 MOSTABUND n=1711/58	1/10	AY388649	Chthoniobacter fl	92.3	100.0	497964	cellular (Ba steria				Verrucomicrobia			Spartobacteria		
CL00005 MOSTABUND n=1616/76	1/10	AM260555	Thermocrinis mine	r 83.9	30.6	381751	cellular (Bacteria				Aquificae			Aquificae		
CL00006 MOSTABUND n=1320/54	1/10	FJ405377	Rhizobium sp. CA	99.6	98.2	573373	cellular (Bacteria	_			Proteobacteria			Alphaproteobacteria		
CL00007 MOSTABUND n=1312/28	1/10	EU571199	Paenibacillus sp. 2	2 98.9	98.2	519770	cellular (Bacteria				Firmicutes			Bacilli		
CL00008 MOSTABUND n=1150/79	1/10	JQ277449	Arthrobacter chlo	r 99.6	98.6	85085	cellular (Bacteria	clas	sifica	tion	Actinobacteria			Actinobacteria		
CL00009 MOSTABUND n=670/32	1/3	KF025983	Arthrobacter anta	76.2	98.2	494023	cellular (Bacteria				Actinobacteria			Actinobacteria		
CL00010 MOSTABUND n=632/1	1/10	JX912466	Halospirulina sp. B	99.3	98.2	1254278	cellular (Bacteria				Cyanobacteria					
CL00011 MOSTABUND n=625/16	1/10	KM495607	Bacillus cereus; P/	99.3	98.6	1396	cellular (Bacteria				Firmicutes			Bacilli		
CL00012 MOSTABUND n=617/28	1/10	KP072762	Nocardioides kribb	99.3	98.2	305517	cellular (Bacteria				Actinobacteria			Actinobacteria		
CL00013 MOSTABUND n=612/13	1/10	EU707564	Tetrasphaera sp.	99.6	98.2	535908	cellular (Bacteria				Actinobacteria			Actinobacteria		
CL00014 MOSTABUND n=530/10																
CL00015 MOSTABUND n=485/32	1/10	EU315115	Desulfonatronum	:87.8	98.2	66849	cellular (Bacteria				Proteobacteria	delta/epsilor		Deltaproteobacteria		



OTU table construction...

Add FASTA file Parameter Value Open FASTQ file(s) Max-length 328 Add FASTQ file Min-length 176 Quality Count 0 With ambiguous bases 0 Open TEXT file Linked Programs available EXIT Show And Edit Sequences Image: Count And Edit Sequences Image: Count And Edit Sequences Loaded FASTA file A:\SEED2_16S_TUTORIAL\BAC_EXAMPLE_DATA\16S_example_joir Image: Count And Edit Sequences Image: Count And Edit Sequences	Open FASTA file(s)	0	
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*		Show And E	dit Sequences
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Open the file containning sample names and cluster names in titles e.g.: 16S_example_joined_qm30_min200bp_max350bp_renamed_clustered.fas



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	STOP running process

No.	Group name:	0 of selected sequence	es				
1	SAMPLE027	Selected cells (rows)	ivided dataset Analysis Table		Group by titles		×
2	SAMPLE019	<u> </u>	Edit sequences		oroup by thes		
3	SAMPLE021	🗲 🏭 ВАСК		855			
4	SAMPLE024		Quality edit				
5	SAMPLE010	No.			Grouping by position in title	Position: 1 Length: 7	
6	SAMPLE005	1	Search and group by nucleotide motives 2D	5480			
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8	SAMPLE032	3	Group by titles 2D	4304	•		_
9	SAMPLE034	4	SAMPLE024	4271		From text: CL	
10	SAMPLE001	5	SAMPLE010	4255	Or Grouping by text inside two strings in title		=
11	SAMPLE006	6	SAMPLE005	4253		To text:	
12	SAMPLE023	7	SAMPLE030	4239		Include searched text	
13	SAMPLE029	8	SAMPLE032	4194			
14	SAMPLE012	9	SAMPLE034	4172	Group		
15	SAMPLE002	10	SAMPLE001	4119			
16	SAMPLE020	11	SAMPLE006	4109	Index Initiation		
17	SAMPLE031	12	SAMPLE023	4090	Indexing		
	no hit	13	SAMPLE029	4069	indexing done		
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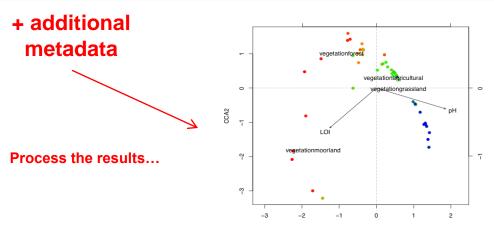
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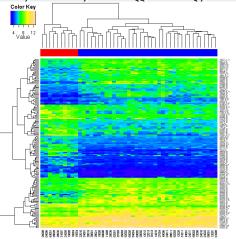
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1	CL00001	1490	22	30	36	290	69	7	203	8	451	40	204	292	74	42
2	CL00002	40	20	16	16	431	76	6	362	12	448	30	308	351	64	24
3	CL00003	203	455	484	15	9 /	62	10	1/	833	2	0	0	13	1	98
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6	CL00006	7	7	3	3	25										3
7	CL00007	3	3	5	8	101	Copy to	lipboard	Save as							3
8	CL00008	137	197	190	155	3 -										94
9	CL00009	360	4	3	8	69		roup name: L00001 1490	SAMPLE		SAMPLE019 36 290	SAMPL	.E021	SAMPLE024 203 8	<u>^</u>	4
10	CL00010	5	5	10	3	133		L00001 1490 L00002 40	22 20		36 290 16 431	69 76	6	203 8 362 12		6
11	CL00011	7	11	0	1	155	3 C	L00003 203	455	484	15 9	62	10	14 833		0
12	CL00012	77	117	105	73			L00004 2	2		1 162 5 20	5	184	108 1		70
13	CL00013	57	81	86	99			L00005 3 L00006 7	7		5 20 3 25	6 3	373 493	195 3 143 6		77
14	CL00014	5	3	6	1			L00007 3	3		8 101	4	141	103 2		0
15	CL00015	3	0	1	0			L00008 137	197		155 3	199	4	5 134		2
16	CL00016	0	1	1	0			L00009 360 L00010 5	4 5		8 69 3 133	5 20	1 3	46 0 95 0		0
17	CL00017	0	8	0 /	2			L00011 7	11		1 155	10	27	95 0 79 2		0
18	CL00018	33	98	101	20			L00012 77	117		73 1	78	9	2 62		13
19	CL00019	37	30	17	151			L00013 57 L00014 5	81 3		99 0 1 126	77 11	23 1	8 62 89 0		105
20	CL00020	2	0	0	0			L00015 3	õ		0 23	3	48	38 0		0
21	CL00021	26	32	39	86	4	16 C	L00016 0	1		0 20	2	86	42 3		95
22	CL00022	2	5	2	3			L00017 0 L00018 33	8 98		2 7 20 0	1 112	172 3	38 1 3 52		2
23	CL00023	29	56	35	68			L00018 33 L00019 37	30		20 0 151 1	62	2	3 52 1 27		59
24	CL00024	7	5	6	0	87	20 C	L00020 2	0	0	0 40	1	23	45 0		0
25	CL00025	28	20	24	65			L00021 26	32 5		86 4 3 7	45	7	1 45 37 1		122
26	CL00026	0	0	0	2	13		L00022 2 L00023 29	5		3 / 68 9	2 61	35 2	3/ 1 4 28		0
27	CL00027	4	11	5	3	77		L00024 7	5		0 87	13	ō	50 1	-	0
28	CL00028	30	18	41	51	1	•								•	11
29	CL00029	243	1	1	1	0	_	1	0	J	0	-	0	2		5
30	CL00030	15	18	23	15	2	23	9	5	18	19	16	6	6	16	27
31	CL00031	0	0	0	0	7	0	18	11	0	26	36	26	24	35	0
32	CL00032	6	4	7	6	27	10	16	25	10	40	8	21	24	18	7 .
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Combine the obtained information...

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οτυ	Organism	Phylum	SAMPLE027	SAMPLE019	SAMPLE021	SAMPLE024	SAMPLE010	SAMPLE005	SAMPLE030	SAMPLE032	SAMPLE034
CL00001	Halospirulina sp. EF17(2012)	Cyanobacteria	1490	22	30	36	290	69	-	7 203	8
CL00002	Halospirulina sp. EF17(2012)	Cyanobacteria	40	20	16	16	431	76	(5 362	. 12
CL00003	Tychonema sp. SAG 23.89	Cyanobacteria	203	455	484	15	9	62	10) 14	833
CL00004	Chthoniobacter flavus (T); Ellin428	Verrucomicrobia	2	2	2	1	162	5	184	108	1
CL00005	Thermocrinis minervae (T); CR11	Aquificae	3	7	8	5	20	6	373	3 195	3
CL00006	Rhizobium sp. CAF431	Proteobacteria	7	7	3	3	25	3	493	3 143	6
CL00007	Paenibacillus sp. 27-9	Firmicutes	3	3	5	8	101	4	14:	L 103	2
CL00008	Arthrobacter chlorophenolicus; L4	Actinobacteria	137	197	190	155	3	199	4	1 5	5 134
CL00009	Arthrobacter antarcticus; R121	Actinobacteria	360	4	3	8	69	5	:	L 46	6 0
CL00010	Halospirulina sp. EF17(2012)	Cyanobacteria	5	5	10	3	133	20	3	95	, 0
CL00011	Bacillus cereus; PASAU166	Firmicutes	7	11	0	1	155	10	27	7 79	2
CL00012	Nocardioides kribbensis; PVS05	Actinobacteria	77	117	105	73	1	78	9) 2	62
CL00013	Tetrasphaera sp. YC6726	Actinobacteria	57	81	86	99	0	77	23	8 8	62
CL00015	Desulfonatronum sp. Su2	Proteobacteria	3	0	1	0	23	3	48	3 38	8 0
CL00016	Rhodoplanes sp. 303	Proteobacteria	0	1	1	0	20	2	86	5 42	3
CL00017	Bacillus sp. PS1-5	Firmicutes	0	8	0	2	7	1	172	2 38	1
CL00018	Hydrogenobaculum sp. Y04AAS1	Aquificae	33	98	101	20	0	112	3	3 3	52
CL00019	Micrococcus endophyticus; DT20X	Actinobacteria	37	30	17	151	1	62	:	2 1	. 27
CL00020	Gaiella occulta (T); F2-233	Actinobacteria	2	0	0	0	40	1	23	3 45	0
CL00021	Pseudomonas sp. III-116-17	Proteobacteria	26	32	39	86	4	45	-	7 1	. 45
CL00022	Gaiella occulta (T); F2-233	Actinobacteria	2	5	2	3	7	2 2	21	. 27	1 1





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