HybPhyloMaker software

Software	Source	Install (yes/no)	Used command(s)	0 Sample preparation	1 Raw data processing	2 Read mapping	3 Generate pslx	4 Process pslx	4b Correct frame, translate	5 Missing data handling	6 Gene tree building	7 Root trees	8a ASTRAL	8b ASTRID	8c MRL	8e Concatenated FastTree	8f ExaML	8g BUCKy	9 Update	10 Collapse trees & select	Reports
GNU parallel	http://www.gnu.org/software/parallel/	y	parallel	x				x													
Bowtie2	http://bowtie-bio.sourceforge.net/bowtie2/index.shtml	y	bowtie2-build, bowtie2		x	x															
BWA	http://bio-bwa.sourceforge.net/	y	bwa mem			x															
SAMtools	http://samtools.sourceforge.net/	y	samtools		x	x															
bam2fastq	https://gsl.hudsonalpha.org/information/software/bam2fastq	y	bam2fastq		x																
Trimmomatic	http://www.usadellab.org/cms/?page=trimmomatic	n	java -jar trimmomatic-0.33.jar		x																
FastUniq	https://sourceforge.net/projects/fastuniq/	y	fastuniq		x																
JDK/JRE	http://www.oracle.com/technetwork/java/javase/	y	java	x									x	x	x					x	
OCOCO	https://github.com/karel-brinda/ococo	y	ococo			x															
kindel	https://pypi.python.org/pypi/kindel	y	kindel			x															
Perl	https://www.perl.org/	y	perl	x			x	x			x					x					
BLAT suite	https://genome.ucsc.edu/goldenpath/help/blatSpec.html	y	blat				x														
MAFFT	http://mafft.cbrc.jp/alignment/software/	y	mafft						x												
Python	https://www.python.org/	y	python						x				x	x							
Python3	https://www.python.org/download/releases/3.0/	y	python3		x				x	x											
AMAS	https://github.com/marekborowiec/AMAS/	n	python3 amas.py					x	x	x	x		x	x		x	x				
EMBOSS	http://emboss.open-bio.org/	y	transeq						x												
TrimAl	http://trimal.cgenomics.org/	y	trimal							x											
MstatX	https://github.com/gcollet/MstatX	y	mstatx							x											
FastTree	http://www.microbesonline.org/fasttree/	y	fasttree								x					x					
Newick Utilities	http://cegg.unige.ch/newick_utils	y	nw_reroot, nw_topology									x	x	x	x	x				x	
RAxML	http://sco.h-its.org/exelixis/web/software/raxml/index.html	y	raxmlHPC								x					x	x				
R	https://www.r-project.org/	y	R								x	x						x	x		x
ASTRAL	https://github.com/smirarab/ASTRAL	n	java -jar astral.5.6.1.jar										x								
ASTRID	https://github.com/pranjalv123/ASTRID	n	ASTRID											x							
p4	http://p4.nhm.ac.uk	y	p4										x	x							
mrpmatrix	https://github.com/smirarab/mrpmatrix	n	java -jar mrp.jar												x						
ExaML	http://sco.h-its.org/exelixis/web/software/examl/index.html	y	examl														x				
BUCKy	https://www.stat.wisc.edu/~ane/bucky/	y	mbsum, bucky															x			