Cheatography

Bedtools Cheat Sheet by ilevantis via cheatography.com/59886/cs/15673/

BED file format				
Column	e.g.	Definition		
chrom	Sc112.1	<str> name of chromosome/scaffold</str>		
start	2134	<int> start position of feature</int>		
end	2565	<int> end position of feature</int>		
name	gene123	<str> name of feature</str>		
score	544	<num> score for the feature e.g. bit score</num>		
strand	+	<+/-/.> strand on which feature is located		
thickStart	2235			
thickEnd	2489			
itemRgb	255,0,0			
blockCount	2			
blockSizes	150,80			
blockStarts	0,2333			

GFF vs BED indexing

GFF	r—1	2	3	4	
	G	- A	- Т	С	
BED	∟_0	1	2 L	-3	

gff > bed:

bed_start = gff_start - 1, bed_end = gff_end bed > gff: gff_start = bed_start + 1, gff_end = bed_end

getfasta

\$ bedtools getfasta [OPTIONS] -fi <input FASTA> -bed <BED/GFF/VCF>

options	
-fo	Specify an output file name. By default, output goes to stdout.
-name	Use the "name" column in the BED file for the FASTA headers in the output FASTA file.
-tab	Report extract sequences in a tab-delimited format instead of in FASTA format.
-bedOut	Report extract sequences in a tab-delimited BED format instead of in FASTA format.



By **ilevantis** cheatography.com/ilevantis/ Not published yet. Last updated 2nd May, 2018. Page 1 of 1.

getfasta (cont)

- -s Force strandedness. If the feature occupies the antisense strand, the sequence will be reverse complemented. Default: strand information is ignored.
- Given BED12 input, extract and concatenate the sequences from split the BED "blocks" (e.g., exons)

maskfasta

\$	bedtools	maskfa	sta	[OPT]	IONS]	-fi	<input< th=""><th>FASTA></th><th>-bed</th></input<>	FASTA>	-bed
<]	BED/GFF/VO	CF> -fo	<01	itput	FASTA	7>			

OPTIONS

-	Soft-mask (that is, convert to lower-case bases) the FASTA
soft	sequence. By default, hard-masking (that is, conversion to Ns) is performed.
-mc	Replace masking character. That is, instead of masking with Ns, use another character.

FASTA	ACTGATCATGATACATGATACCATTAGGATACAATA
BED	
FASTA'	ACTGATNNNNATACATGNNNNNATTAGGNNNNAATA

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