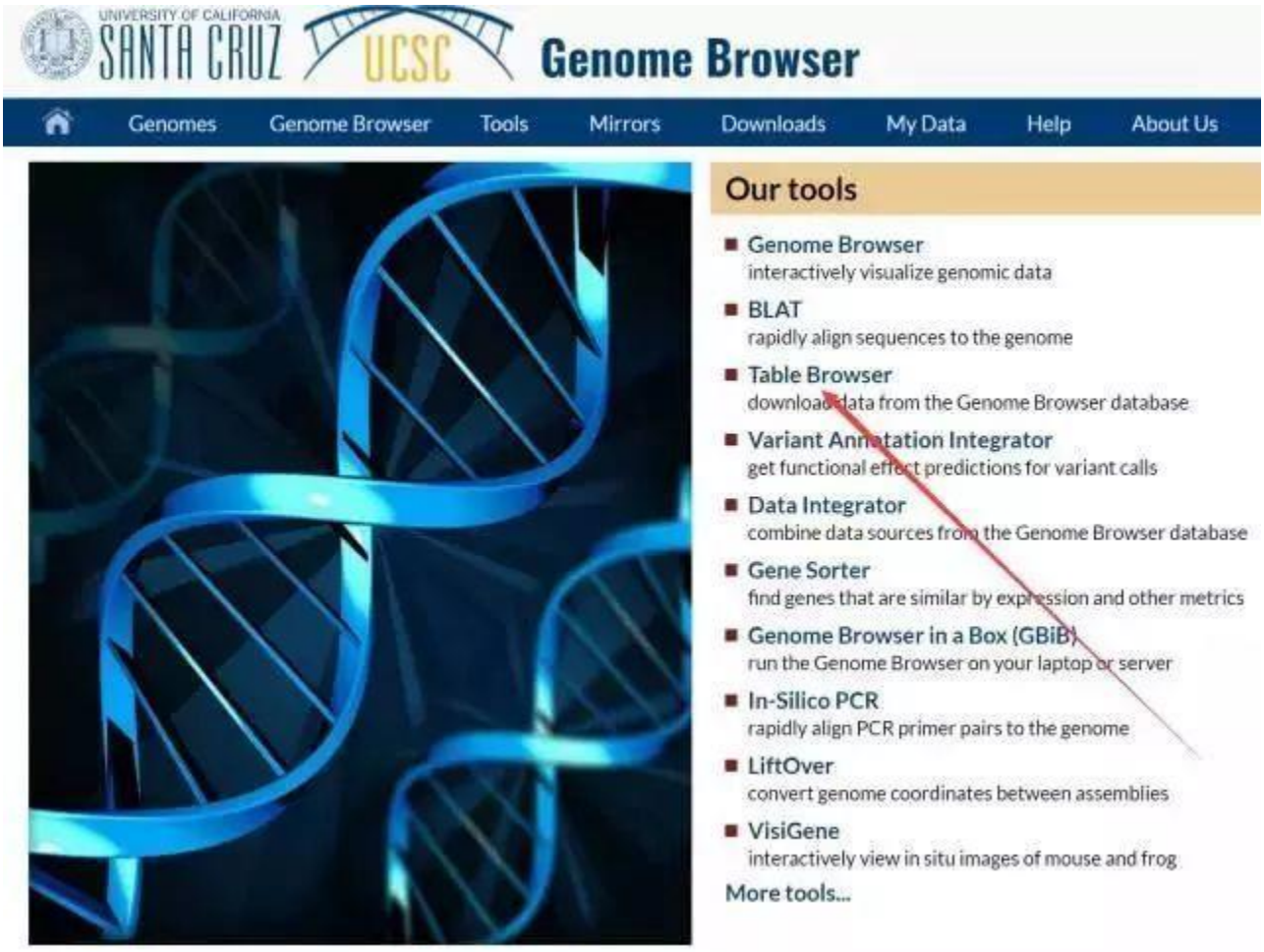
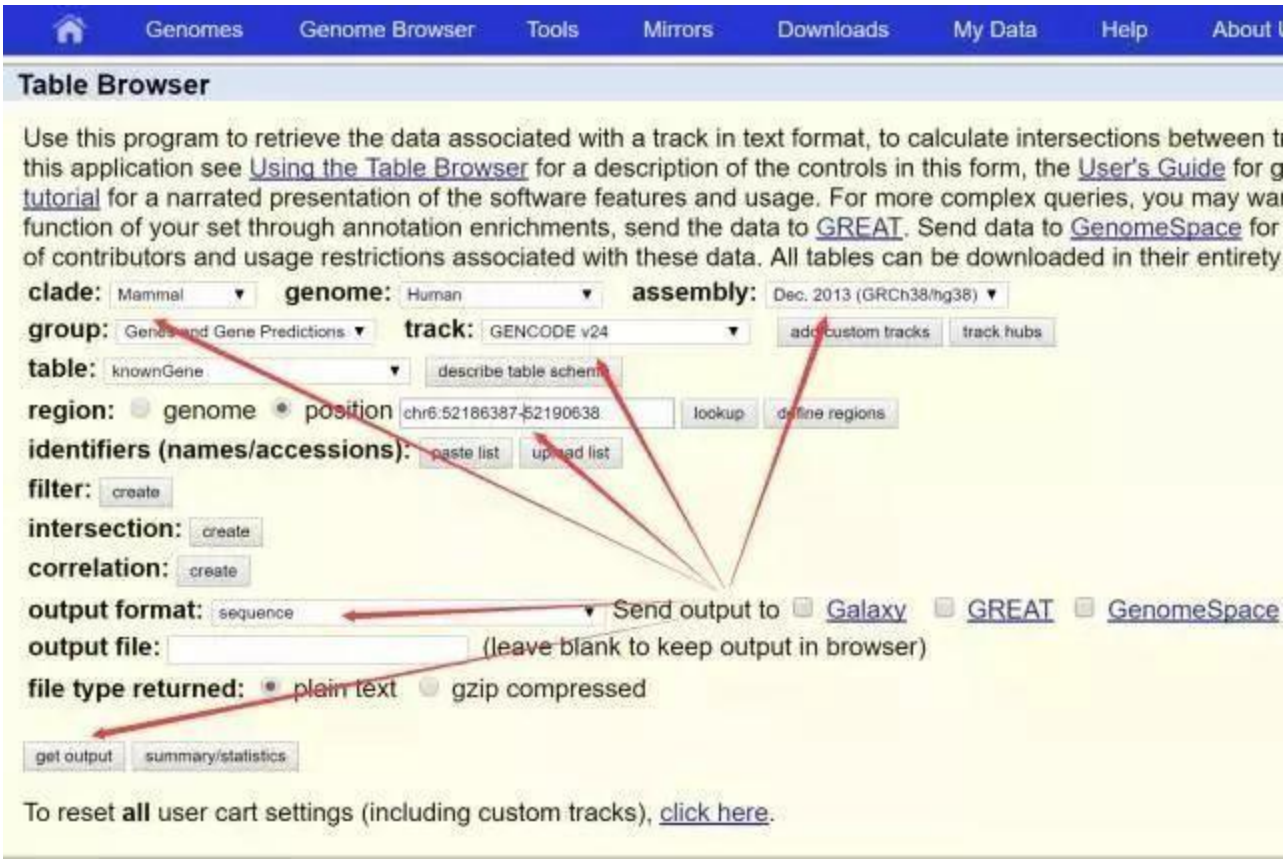
Locate promoter sequence for a specific gene

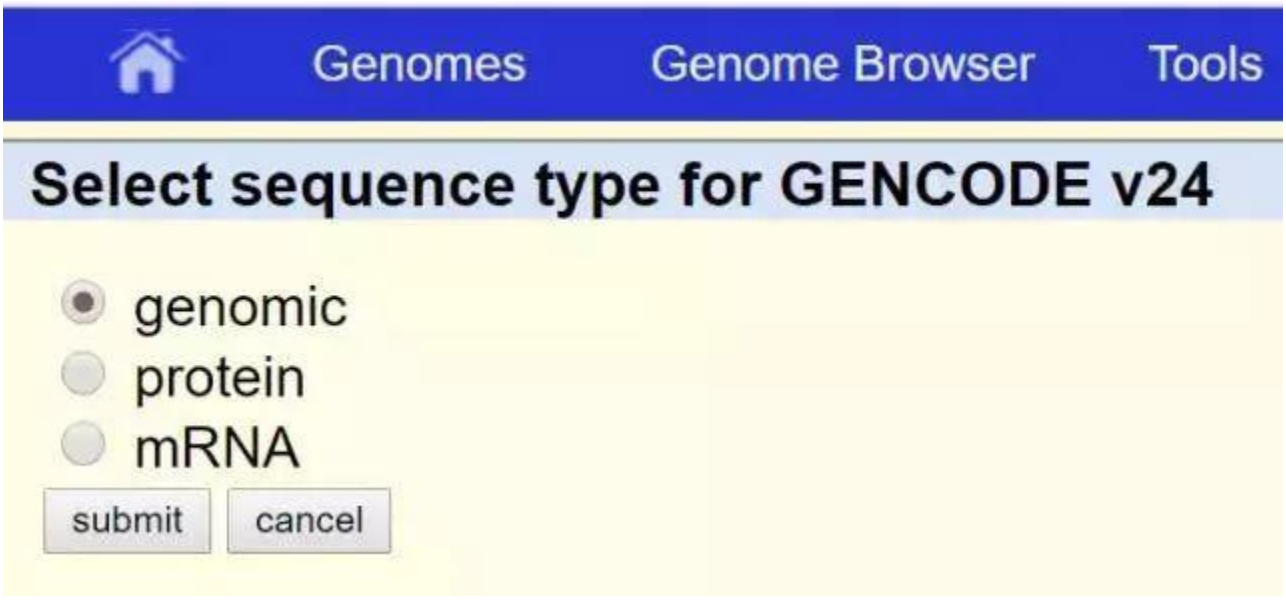
1. Go to website UCSC：http://www.genome.ucsc.edu/,choose “Table Browser”：



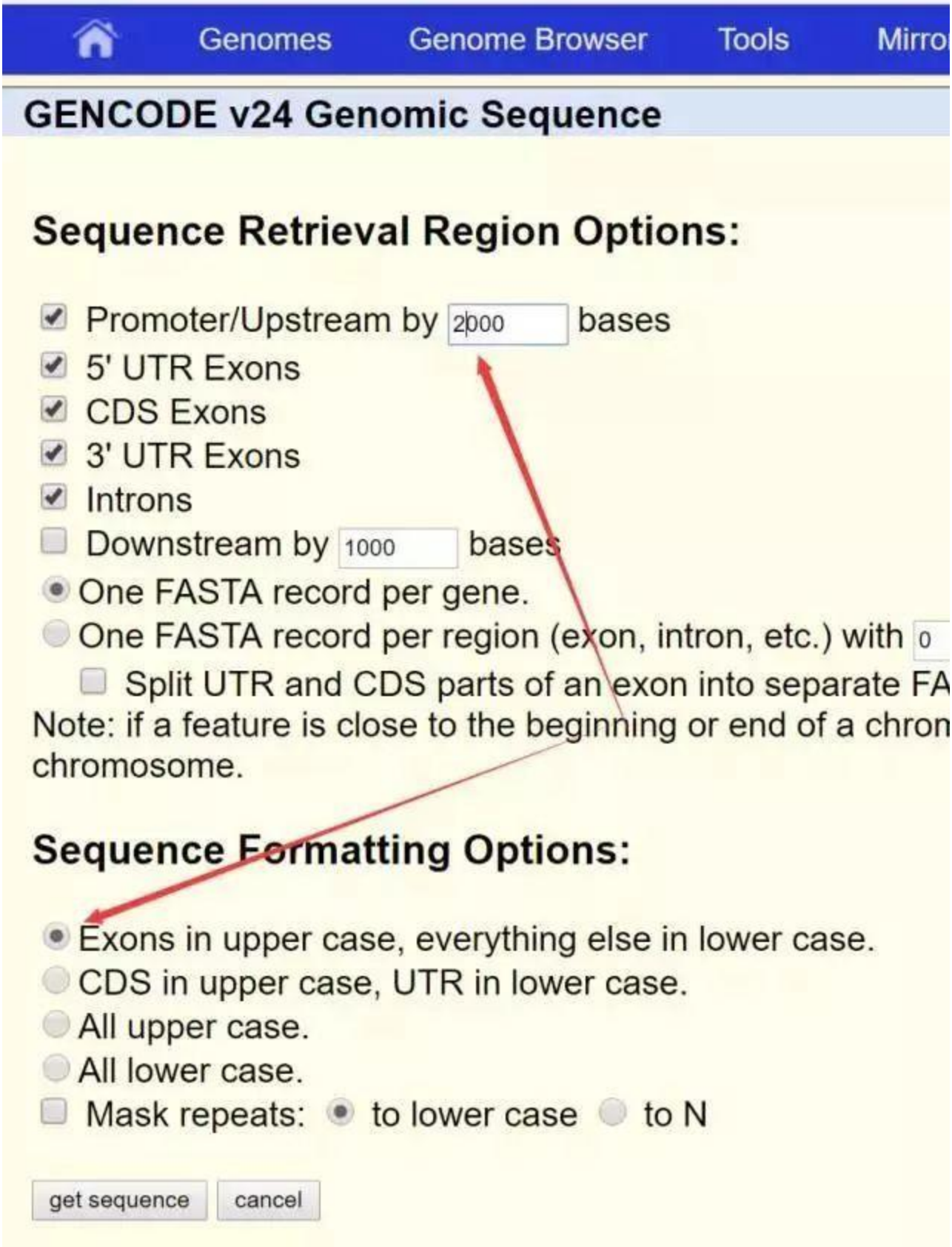
2. Type into the gene information，click “get output”：



2. Choose “genomic”：



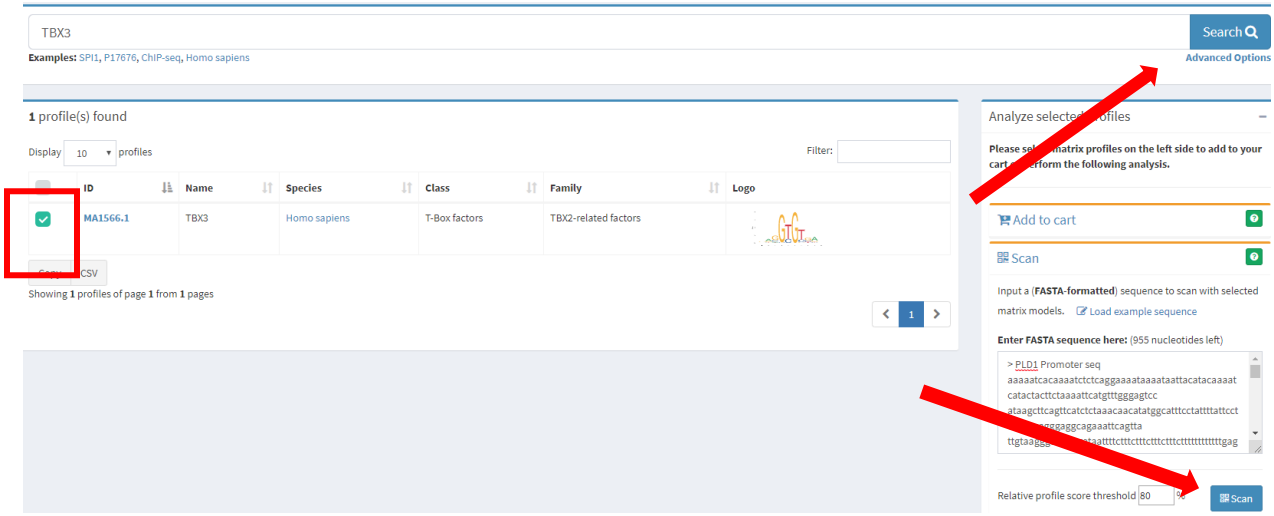
4. Choose “Promoter/Upstream by”，change to “2000 bases”，then click “get sequence”：


Genomes
Genome Browser
Tools
Mirro
GENCODE v24 Genomic Sequence
Sequence Retrieval Region Options:
Promoter/Upstream by 2000 bases
5' UTR Exons
CDS Exons
3' UTR Exons
Introns
Downstream by 1000 bases
One FASTA record per gene.
One FASTA record per region (exon, intron, etc.) with 0
Split UTR and CDS parts of an exon into separate FA
Note: if a feature is close to the beginning or end of a chron
chromosome.
Sequence Formatting Options:
Exons in upper case, everything else in lower case.
CDS in upper case, UTR in lower case.
All upper case.
All lower case.
Mask repeats: to lower case to N
get sequence
cancel

5. The sequence from beginning to the first capital letter is the promoter sequence.

Predict transcription factor binding site on given promoter sequence

1. go to website jaspar： http://jaspar.genereg.net/;
2. Search your gene such as TBX3 (human), the possible binding site will be displayed ;
3. Click Scan, type the promoter sequence (FASTA type) into this region. For example PLD1 promoter sequence, Click “scan”;



4. Click “CSV” to download results, choose the possible binding sites according score.

Total **21** putative site(s) were predicted with relative profile score threshold 80%.

Show FASTA Sequence

Display 10 profiles

Filter:

Matrix ID	Name	Score	Relative score	Sequence ID	Start	End	Strand	Predicted sequence
MA1566.1	TBX3	10.831	0.960361764321	PLD1	470	479	+	CAGGTGTGAG
MA1566.1	TBX3	8.31373	0.897431301934	PLD1	1517	1526	-	GAAGTGTTAT
MA1566.1	TBX3	7.74044	0.8830995629	PLD1	567	576	-	TAAGTGTCAC
MA1566.1	TBX3	7.23403	0.870439837637	PLD1	661	670	+	TACGTGTGTG
MA1566.1	TBX3	7.01705	0.865015591515	PLD1	1875	1884	-	GGGGCGTCGC
MA1566.1	TBX3	6.99837	0.864548463788	PLD1	1890	1899	-	GCGGTGCCAG
MA1566.1	TBX3	6.9468	0.863259180769	PLD1	1584	1593	-	GAGGTGACAT
MA1566.1	TBX3	6.66929	0.856321868515	PLD1	887	896	+	GCTGTGTGAC
MA1566.1	TBX3	6.66929	0.856321868515	PLD1	1462	1471	+	GCTGTGTGAC
MA1566.1	TBX3	6.37353	0.848928001998	PLD1	455	464	+	AAAGTGTTGG

Showing 1 to 10 of 21 entries

Previous 1 2 3 Next

Copy CSV