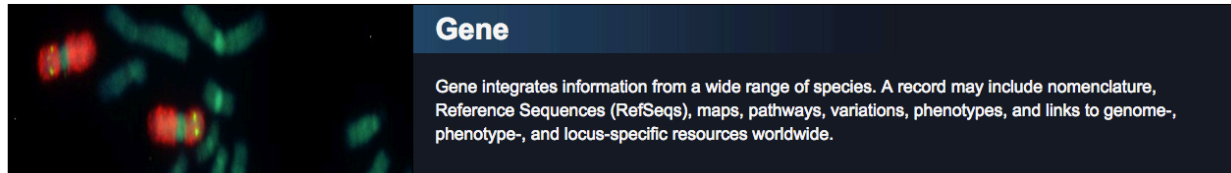
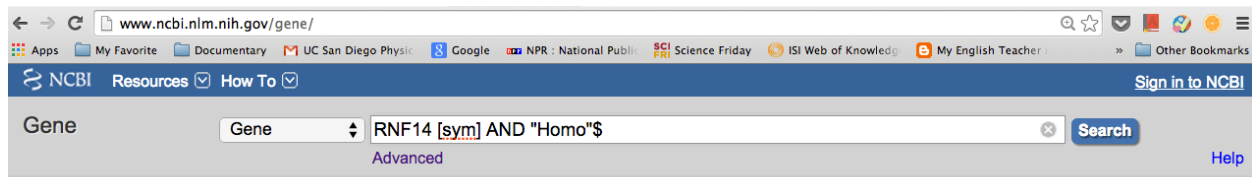
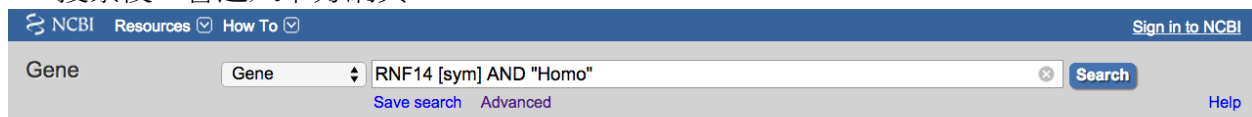


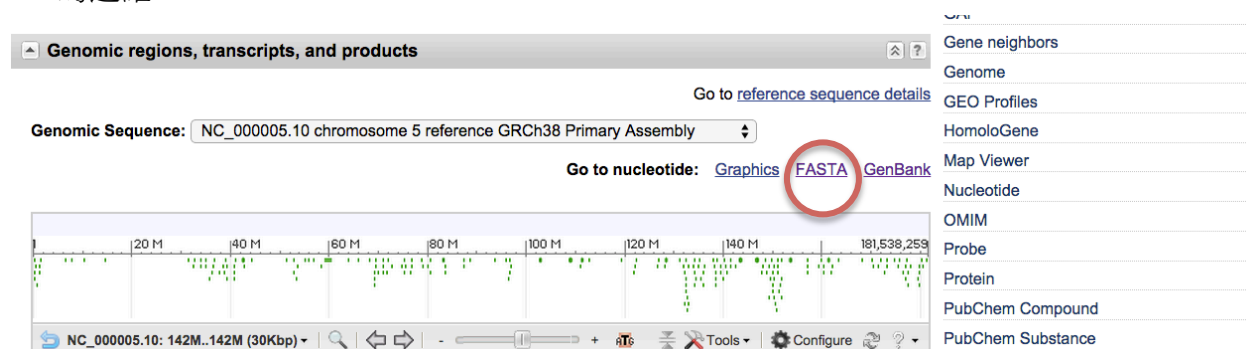
1. 先到該網站 <http://www.ncbi.nlm.nih.gov/gene/>
2. 讀取檔案 GeneSym.txt 中，取出第一列的字串 RNF14 [sym] AND "Homo" 後，用此搜索引擎做搜索



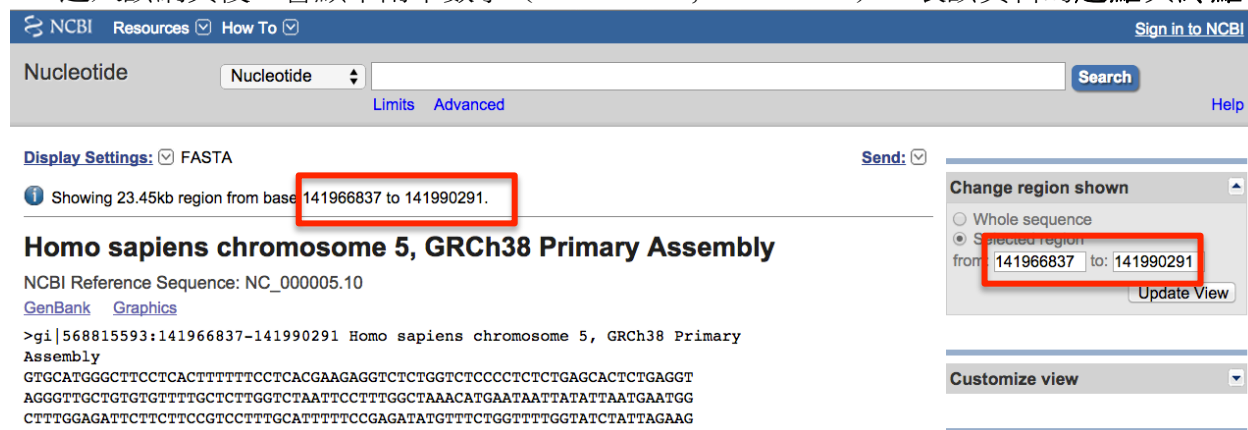
3. 搜索後，會進入下方網頁



4. 下拉到下面 Genomic regions, transcripts, and products 後，點選“FASTA” (紅色圈選) 的連結



5. 進入該網頁後，會顯示兩串數字（141966837, 141990291），表該資料的起點與終點



NCBI Resources How To Sign in to NCBI

Nucleotide Nucleotide Search Limits Advanced Help

Display Settings: FASTA Send:

Showing 23.45kb region from base 141966837 to 141990291.

Homo sapiens chromosome 5, GRCh38 Primary Assembly

NCBI Reference Sequence: NC_000005.10

[GenBank](#) [Graphics](#)

```
>gi|568815593:141966837-141990291 Homo sapiens chromosome 5, GRCh38 Primary Assembly
GTGCATGGGCTTCCTCACTTTTTCCTCACGAAGAGGTCTCTGGTCTCCCTCTCTGAGCACTCTGAGGT
AGGGTTGCTGTGTGTTTGGCTCTTGGTCTAATTCCTTTGGCTAAACATGAATAATTATTAATGAATGG
CTTTGGAGATTCTTCCGTCCTTTGCATTTTCCGAGATATGTTTCTGGTTTGGTATCTATTAGAAG
-----
```

Change region shown

☐ Whole sequence

☒ Selected region

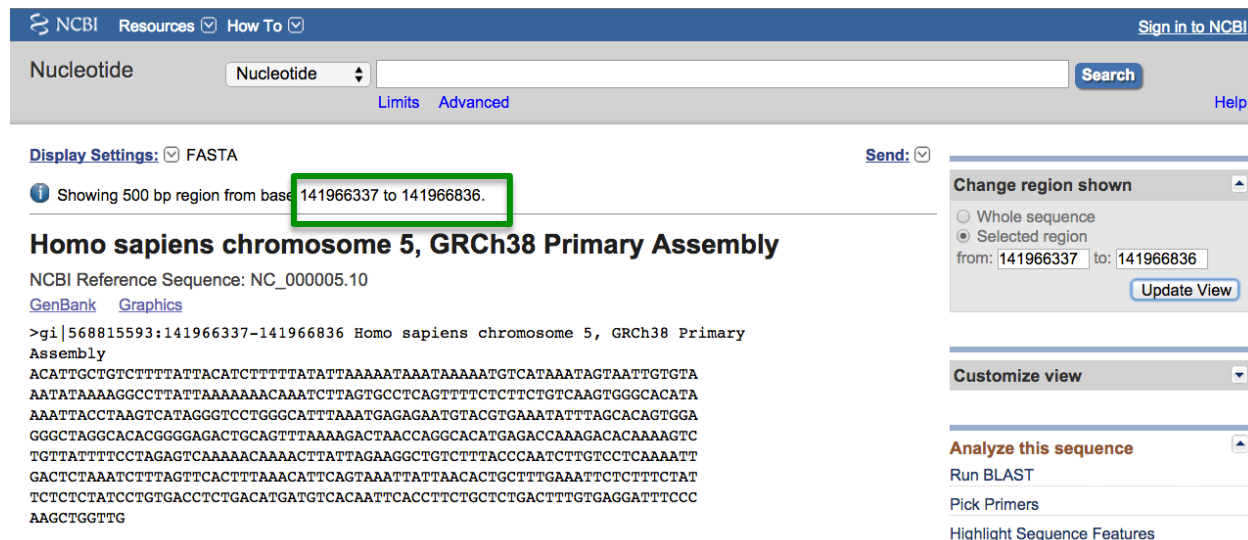
from: 141966837 to: 141990291

Update View

Customize view

6. 從右側欄位，把起點 141966837 往回逆推 N 個數字（N 希望是可以變動的，不要寫死；例如我們可以設置起點往回推 500 變成 141966337），終點則改成起點位置再減一 141966836

7. 更改那兩個欄後，選 update view，如下圖所示。起點與終點的數字也已變動過。



NCBI Resources How To Sign in to NCBI

Nucleotide Nucleotide Search Limits Advanced Help

Display Settings: FASTA Send:

Showing 500 bp region from base 141966337 to 141966836.

Homo sapiens chromosome 5, GRCh38 Primary Assembly

NCBI Reference Sequence: NC_000005.10

[GenBank](#) [Graphics](#)

```
>gi|568815593:141966337-141966836 Homo sapiens chromosome 5, GRCh38 Primary Assembly
ACATTGCTGCTTTTATTACATCTTTTATATAAAAATAAAATGTCATAAATAGTAATTGTGTA
AATATAAAGGCCTTATTAACAAATCTTAGTGCCTCAGTTTCTCTCTGTCAGTGGGCACATA
AAATTACCTAAGTCATAGGGCTCTGGGCATTTAAATGAGAGAATGTACGTGAAATATTTAGCACAGTGA
GGCTAGGCACACGGGAGACTGCAGTTTAAAGACTAACCCAGGCACATGAGACCAAGACACAAAAGTC
TGTTATTTTCCTAGAGTCAAAACAAACTTATTAGAAGGCTGCTTTACCCAATCTTGTCTCAAAATT
GACTCTAAATCTTAGTTCACTTTAAACATTCAGTAAATTATTAACACTGCTTTGAAATTCCTTTCTAT
TCTCTATCTGTGACCTCTGACATGATGTCACAATTCACCTTCTGCTGACTTTGTGAGGATTTCCC
AAGCTGGTTG
```

Change region shown

☐ Whole sequence

☒ Selected region

from: 141966337 to: 141966836

Update View

Customize view

Analyze this sequence

Run BLAST

Pick Primers

Highlight Sequence Features

8. 點選 右方 Send →File→Create File，會跳出存檔視窗。從 [GeneSymName.txt](#) 中取一列字串 [RNF14](#)，檔案名存為 [RNF14.fasta](#)

The screenshot shows the NCBI website interface. At the top, there is a navigation bar with 'NCBI', 'Resources', and 'How To'. Below this, there is a search bar with 'Nucleotide' selected. The main content area displays 'Homo sapiens chromosome 5, GRCh38 Primary Assembly' with a reference sequence NC_000005.10. A 'Send' button is visible in the top right corner. A dropdown menu is open, showing options for 'Complete Record', 'Coding Sequences', and 'Gene Features'. Under 'Choose Destination', there are options for 'File', 'Clipboard', 'Collections', and 'Analysis Tool'. The 'File' option is selected. Below this, it says 'Download 1 items.' and 'Format' is set to 'FASTA'. The 'Create File' button is highlighted with a red box.

9. 後續未完