# fastx-utils之抽取序列文件对应的信息: view

## 一、fastx-utils view介绍

功能描述:

fastx-utils view 抽取序列文件对应的信息,以表格形式展示。

#### 命令行接口:

#### 可选参数:

```
      1
      -a
      输出附加信息;

      2
      -c
      输出注释信息;

      3
      -1
      输出长度信息;

      4
      -s
      输出序列信息;
```

# 二、使用场景实例及其用法

示例演示:

示例文件: protein.faa

```
1 | $ cat protein.faa | head -n 6
```

- >AGE80385.1 D-alanyl-D-alanine carboxypeptidase [Bacillus thuringiensis serovar kurstaki str. HD73]
- 2 MKKIIIISATTIVIGITSFAYFGSKTPLHNEAKAVESQKHNNHKKEEIPAFPKADHNAKKIDNDFSVVTNPKSNLVL INKHRKLPDGYIPEDLTRPNVPFISPKDKEKTLLRKDAAEALENMFKAAKKEGLDLTAVSGYRSYKRQKSLHDTYVR RQGKAEANSVSAIPGTSEHQTGLAMDISSKSAKFQLEPIFGETAEGKWVAEHAHEFGFVIRYLEDKTDTTEYAYEPW HLRYVGNPYATYLYKHHLTLEEAMEDKK
- 3 >AGE79558.1 hypothetical protein HD73\_3980 [Bacillus thuringiensis serovar kurstaki str. HD73]
- 4 MINHELVERINFLAKKAKAEGLTEEEQRERQSLREQYLKGFRQNMLNELKGIKVVNEEGTDVTPTKLKALKKQDNAK LN
- 5 >AGE81073.1 hypothetical protein HD73\_5496 [Bacillus thuringiensis serovar kurstaki str. HD73]
- 6 MDKVISNEILQQFKDRMRLGDDEDANLRRILFASNKDLTRVCGNYDLNIDEVFKELVFERSRYVYNDALEYFDKNFL SQINSLSIGKALEAIKLDGD

#### 运行命令: 显示 protein.faa 文件信息。

\$ fastx-utils view protein.faa | head -n6

```
1 AGE80385.1
2 AGE79558.1
3 AGE81073.1
4 AGE81522.1
5 AGE80137.1
6 AGE76491.1
```

#### 参数选项1: 设置 -c 参数,输出注释信息。

```
1 | $ fastx-utils view -c protein.faa |head -n6
```

- AGE80385.1 D-alanyl-D-alanine carboxypeptidase [Bacillus thuringiensis serovar kurstaki str. HD73]
- 2 AGE79558.1 hypothetical protein HD73\_3980 [Bacillus thuringiensis serovar kurstaki str. HD73]
- 3 AGE81073.1 hypothetical protein HD73\_5496 [Bacillus thuringiensis serovar kurstaki str. HD73]
- 4 AGE81522.1 S-layer domain-containing protein (plasmid) [Bacillus thuringiensis serovar kurstaki str. HD73]
- 5 AGE80137.1 Methylenetetrahydrofolate reductase [Bacillus thuringiensis serovar kurstaki str. HD73]
- 6 AGE76491.1 Rhodanese domain protein [Bacillus thuringiensis serovar kurstaki str. HD73]

## 参数选项2: 设置 -1 参数,输出长度信息。

## 1 \$ fastx-utils view -1 protein.faa |head -n6

```
1 AGE80385.1 259
2 AGE79558.1 79
3 AGE81073.1 97
4 AGE81522.1 402
5 AGE80137.1 610
6 AGE76491.1 98
```

#### 参数选项3: 设置 -s 参数,输出序列信息。

```
1 | $ fastx-utils view -s protein.faa |head -n6
```

- 1 AGE80385.1
  - MKKIIIISATTIVIGITSFAYFGSKTPLHNEAKAVESQKHNNHKKEEIPAFPKADHNAKKIDNDFSVVTNPKSNLVL INKHRKLPDGYIPEDLTRPNVPFISPKDKEKTLLRKDAAEALENMFKAAKKEGLDLTAVSGYRSYKRQKSLHDTYVR RQGKAEANSVSAIPGTSEHQTGLAMDISSKSAKFQLEPIFGETAEGKWVAEHAHEFGFVIRYLEDKTDTTEYAYEPW HLRYVGNPYATYLYKHHLTLEEAMEDKK
- 2 AGE79558.1
  MINHELVERINFLAKKAKAEGLTEEEQRERQSLREQYLKGFRQNMLNELKGIKVVNEEGTDVTPTKLKALKKQDNAK
- 3 AGE81073.1 MDKVISNEILQQFKDRMRLGDDEDANLRRILFASNKDLTRVCGNYDLNIDEVFKELVFERSRYVYNDALEYFDKNFL SQINSLSIGKALEAIKLDGD
- 4 AGE81522.1
  - MKKTILTTTAALTMMGTGMGINVDHIKPAEVKADTISFYDVPNNHWATKAITNLANRNIVVGYGNGQFGFGDNVTRG
    QVARMIYNYLKPADAGNFKNPFSDIKGHMFEKEILALAKVGIIKGYGEGKFGPDDILTREQMAQVLTNAFKFEGTKK
    TSFVDVDKNSWSYKAIGALEEKGVTIGTGGNMYSPTSVVTREQYSQFLFNSINVIEKETKPEEKPNTGGEVKPEEKP
    NTGGEVKPEEKPNTGEETKPVNIPEWLETSLATNDFTFTQAWYDGSEAINKAASTNAQQIVKNINSKYGTNLKYSEV
    GAIVQLVDGAREQLWLAGMNVNDFRVTFRVSNNAMIELTKELVTLVNSDLNLDQEIQEIPSAPMKIKNVEKGDYKIR
    ISPAMADQMITIIIEKK
- AGE80137.1

  MKLLDLLSKGIVIGDGAVGTLLHSHGLQSSFEELNVSDPDLIISIHKQYVAAGADVIQTNTYGANEAKLRMYGLENQ
  VTKINRAAVKLAKASVTDKNAILGTIGGMKHIGAVTTTDMEREFMLLEQAGALLEEQVDGLLLETFYDEFELLHAVK
  VLRKQTNIPIVAQLALHEAGTTQNGNDVNEILKQFIDYGANVVGLNCQLGPLHMTEAFKMISIPQNGYLSAYPNAGL
  PNYVEGRYVYEGSPAYFEAMTPNFIEQGIRLLGGCCGTTPEHIQSMKRAVANITPVIEKETIQRPKVVHTHEKRSKA
  HVTLAEKAKKQTTVVVELDPPKTLDTQRFFEGARALKRAGADAITLADNSLASPRVSNMAMGALLTKHDIPVLTHLT
  CRDHNVIGLQSHLLGLSALGMEEVLALTGDPARVGDFPGATSVYDLSSIELIKMIKEMNDGRSILGKSIGPATRFSV
  GGAFNPHVRHLKAAVKRMERKIDAGAEYFLTQPIYDIKLIEEVYEATKHLEQPIFIGIMPLVSKRNADFLHFEVPGI
  TLPEEIRERMDGHETKEAAIEEGIRISQELVDAAMKYFNGIYLITPFLKYEITEHLVKYVREKQEVKEGIN
- 6 AGE76491.1 MKEMTAKELEEKLLRKEAVNIVDVREVEEVAEGKIPEACNIPLGLLEFRMHELDKKKEYIIVCRSGGRSARAVQFLE SYGFQAINMVGGMLAWEGKVV

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