Notes from Melting on 26/11/2021

 $\sqrt{\phantom{a}}$ 

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atgattcatccgtttgtgagccgcatgctggcgtttgcgctgttgcgctgttgcgctgttgcgctgttgcgctgttgcgctgttgcgctgttgcgcttgtgccatagcctgatcgcctgatcgccacagcaccataactttggcgcacggcggcagcgatgcgccggatgcgaccatagcctgttgcgcacaggcgctgtgcgatagcgcctgtttgcgcacattttgcgcacactttgcgcacactttgcgcacacttagcctgatgcgcacacttagcctgatgcacacttagcctgatgcgcacactttgcgccggatgcgatgcgaccatttagccacatttgcgccgcacacagacacttagcctgatgcacacattagcctgatgcacatttagccacattagcctgatgcacattagcctgatgcacattagccacattagcctgatgcacattagccacattagcctgatgcacattagccacattagcctgatgcacattagccacattagcctgatgcacattagccacattagcctgatgcacattagccacattagcctgatgcacattagccacattagcctgatgcacattagccacattagcctgatgcacattagccacattagcctgatgcacattagccacattagcctgatgcacattagccacatta

 $\sqrt{N}$ 

```
>CCH57671.1
  Length = 288

Score = 72 bits (174), Expect = 1e-12
Identities = 46/81 (57%), Positives = 52/81 (64%), Gaps = 3/81 (4%)
Frame = +1
```

Query: 1 MIHPFVSRMLAFALLTISLVDRHSLN\*VYPNHPRQRRSNKDRLHGPDHRLFA--PGG\*RTYIFGGLVPFGKIWRTGASDAT 236

MIHPFVSRMLAFALLTISLV R +L + P + K ++ D + P IFGGLVPFGKIWRTGASDAT

Sbjct: 1 MIHPFVSRMLAFALLTISLV-RPALAQLSLPEPSPPTTIKQKIGFTDLTIAYSRPAVKGRTIFGGLVPFGKIWRTGASDAT 80

```
>CCH57671.1 hypothetical protein BN8_p06879 plasmid [Fibrisoma limi BUZ 3]
Length = 288

Score = 177 (bits 448), Expect = 3e-41
Identities = 100/104 (96%), Positives = 100/104 (96%), Gaps = 4/104 (4%)
Frame = +1
```

Query: 1 MIHPFVSRMLAFALLTISLV\RPALAQLSLPEPSPPTTIKQ\KIGFTDLTIAYSRPAVKGRT\IFGGLVPFGKIWRTGASDAT 236

MIHPFVSRMLAFALLTISLV RPALAQLSLPEPSPPTTIKQ KIGFTDLTIAYSRPAVKGRT IFGGLVPFGKIWRTGASDAT

Sbjct: 1 MIHPFVSRMLAFALLTISLV-RPALAQLSLPEPSPPTTIKQ-KIGFTDLTIAYSRPAVKGRT-IFGGLVPFGKIWRTGASDAT 80

1 asks - Main program - Ultilities Bladul DNA-cader Cookeep DP impanetul

Lest Cases

Exhit of project. - Ml Commd-hepppm Con set peraltès, choose sab. mtx, provide ONA 8 proteir sequere pri - get algut usis \ / notation -- does frame-shift DP - Lest cases

- Some thing to support that program

walks as included

- speed assessment

(and

Frail product: athub repositors documentate, Will muly examples

Things to form a view upon: - Would cettire gap scoring be easy to implement? - Would liner spece be easy to implement?

```
>WP 006339994.1
       Length = 612
 Score = 963 bits (2489), Expect = 0
 Identities = 503/618 (81%), Positives = 563/618 (91%), Gaps = 12/618 (2%)
 Frame = -1
Query: 2299870 MAKQYDESSV/KTLDALSHIRLRPGMYIGRL/GDGAHPDDGIYVMLKEVIDNSVDEFIMKQGKKISIELDEETQTVSVRDYGRGIPLGKVIDCVSQINTGAKYNDDVFQFSVGLNGVGTK 2299519
                MAK+YDESSV KTL AL HIRLR GMYIGRL GDG+HPDDGIY+M+KEVIDNSVDEFIMK G +I I +D E +SVRD+GRGIPLGKVIDCVSOINTGAKYNDDVFOFSVGLNGVGTK
             1 MAKKYDESSV-KTLGALEHIRLRSGMYIGRL-GDGSHPDDGIYIMVKEVIDNSVDEFIMKHGNRIIIGVDPEQGLISVRDFGRGIPLGKVIDCVSQINTGAKYNDDVFQFSVGLNGVGTK 118
Sbjct:
Query: 2299518 AVNALSSHFVVRSHRDGKYLEADFNRGILKQ/KKEGTTKEPNGTYIQFIPDGELFK/KFRFQKEYILKRLWHYAYLNTGLVLSFNGEIIESKNGLLDLLNAEVNVDDRLYEPLHYRGKML 2299167
                AVNALSSHF+VRSHR+GK +EA F++G L + +K T EP+GTY++FIPD E+FK KFRF+ EYI KRLWHYAYLNTGL+L +NG+ I S+NGLLDLLN EV +DRLYEPL+YRGK+L
Sbjct:
           119 AVNALSSHFLVRSHREGKSMEAVFSOGKLIR-EKSOKTSEPDGTYVEFIPDKEIFK-KFRFEPEYIOKRLWHYAYLNTGLILEYNGODIYSENGLLDLLNEEV-TEDRLYEPLYYRGKLL 235
Query: 2299166 EFAF/LHTQSYGETYFSFVNGQYTSDGGTHLSAFREGILKGVNEYSKKNFQGVDVREGIVGTILVRVKDPLFESQTKNKLGNSELRGPVVQEVKDAVVDLLYKNPTTANQIIERIVFNEK 2298811
                EFAF LHTOSYGE+YFSFVNGOYTSDGGTHLSAFREGILKGVNEYSKKNFOGVD+REGIVGT+ VR+KDP+FESOTKNKLGN+ELRGP+VOEVKDAVV++LYKN +TAN IIERIVFNEK
Sbict:
           236 EFAF-LHTOSYGESYFSFVNGOYTSDGGTHLSAFREGILKGVNEYSKKNFOGVDLREGIVGTVAVRIKDPVFESOTKNKLGNTELRGPLVOEVKDAVVNMLYKNSSTANSIIERIVFNEK 354
Query: 2298810 LRKELANV/KKEAKEKQKKISFKIPKLRDCKFHFQDGTEHGDRSMIFLTEGDSASASIVAARDPLTQAVF\FSLRGKPLNVHGMKLDQLYKNEEMFNLMSALNVEDEIEKLRYQ/KIILA 2298461
                LRKELA V KKEAKEKOKKISFKIPKLRDCK+H OD + G+++MIFLTEGDSASASIVA+RDPLTOAV FSLRGKPLNVHGMK+DOLYKNEEMFNLMSALN+ED+IE LRYO K+ILA
           355 LRKELAAV-KKEAKEKOKKISFKIPKLRDCKYHAODKADVGEKTMIFLTEGDSASASIVASRDPLTOAV--FSLRGKPLNVHGMKIDOLYKNEEMFNLMSALNIEDDIENLRYO-KVILA 470
Sbjct:
Ouery: 2298460 TDADVDGMHIRNLLITFFLTYFEGLVLNGHLYILETPLFKVRNKE/KTFYCYNEEERDKAIEKL/KKGIEITFFKGLGEISPNEFKOFISKDIRLIPVTVNMFSDIKATLEFYMGKNTPE 2298109
                TDADVDGMHIRNLLITFFLTYFEGLVLNGHL+ILETPLFKVRN+E KT YCY+EEERDKAI++L KKGIE+TRFKGLGEISPNEFKOFI KDIRLIPVT+++FSDIK TL+FYMGKNTP+
           471 TDADVDGMHIRNLLITFFLTYFEGLVLNGHLFILETPLFKVRNRE-KTLYCYSEEERDKAIKQL-KKGIEVTRFKGLGEISPNEFKQFIGKDIRLIPVTISLFSDIKTTLDFYMGKNTPK 588
Sbjct:
Query: 2298108 RKQFIMRNLVNEDEEALK 2298055
                RKOFIM NL+NE E L+
Sbjct:
           589 RKOFIMENLINELEPTLE 606
```