



Structural Motifs Using Random Fields (SMURF)

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6-bladed

```
>YDR128W
Raw score: 29.9460
P-value: 0.00336

-----atvvtetvyrepaidsqgrafatssngkill
|BBB|||BBBBBB|||BBBB
MCSSINEGPYNSTFTGKSLSLKVDGGFNA-----VSINPSGRDIVLASRQGLYI

ldltgs---kkvlfr--pddnpsaviydtg-kllvvtrptnglviytlkw-----
BB||| | |BB||| | |||||BBBB||| |BBBBBB| |BBBBBB|||
IDLDDPFTPPRWLHHITPWQVADVQWSPHPAKPYWIVSTSN-QKAIIWNLAKSSSNAIEF

-----ekktdigaialdnvndgafdtlkgalyvtd-r-----kvgsvyify
| ||||| |||||BB||| |BBBBBB | | |BBBBBB
VLHGHSRAITDINFNP-QHPDVLATCSVDTYVHAWDMRSPHRPFYSTSSWSAASQVKWN

ldsgkv-----tplfkg----lsingiaispdg-ltlyirett-rnk
| |||BB | ||||| | |||||BBBB||| |BBBBBB| | |B
YKDPNVLASSHGNDIFVWDLRKGSTPLCSLKGHVSSVNSIDFNRFKYSEIMSSSDNGTVK

iwkfel--gtsl-vlkdatgpvgisvdsdgtlyvas----grsniarykl--skdivqie
BBBBB| | || | ||||| |||||BBBB|||BBBBBB | ||BBBBBB| | ||BB|
FWDYSKSTTESKRTVTTFNFIWRGRYLPFGEGYCIIMPMVGGNNAVYLINLCDDDDSEQNK

spgkstysavspf-d--gsvlvess-----nsslyilnwe-----
| |||||BBBB|| | |BBBBBB| | |BBBBBB|
KTKLQPIYAFKGHSDRVIDFLWRSRHTCDGDYDDREFQLVTWSKDCDLKLWPISDSIYGK

-----

VNFDRGKRLEEKLPDYDYCSYNKEPENR
```



```

>YDR128W
Raw score: -64.4118
P-value: 0.09579

-----fedlsellikildlnsvdekskvkvdstkndlsvsdgrfilveyqvksd
|BBBBBBBBBBBBB||| ||||| |||BBBB||| |BBBBBB|BB|B
MCSSINEGPYN----SPTFGKSLSLKVDGGFNAVSINPSGRDIVLASRQGLYIIDLDDPF

asidiidlakrqliteiikisnealvevsk--dk-vlvgasvrndiavkdeksleskriv
BBBBBBB BB||| |||BBBB|| || BBBB|||BBBBB||| |||BB||
TPPRWLH----HITPW-----QVADVQWSPHPAKPYWIVSTSNQKAIWNLAKSSSNAIE

ftrgtykiveyrgs--aliysgev-dllayaskedlieysf-----kt
||| |||BBB|| |BBB||| |BBBBBBBB|BBBBBB BB
FVL----HGHSRAITDINFNPQHPDVLATCSVDTYVHAWDMRSPHRPFYSTSSWRSAA SQ

vrvpyp--ae-----tvkvfvvnaksitnltstaiga--dhylnvdtwseqkllslaarr
BBBB|| || BBBBBBBB|| |||BBBB|| |BBB|BBBB||| BBBBBBBB
VKWNYKDPNVLASSHGNDIFVWDLR--KGSTPLCSLKGHVSSVNSIDFNRF-KYSEIMSS

--ssivdvldrdrerdlsvadkvdsdwvrkrpngedaftvd--gkvfykiisklgsiklfq
BBBBBBBBB||BBB|BBBBB||| ||| BB||| |BBBBBBB|BBBBBBB
SNDGTVKFWDYSKSTTESKRTVTTNFPIWRG---RYLPFGEGYCIIMPVGGNNNAVYLIN

aikgevaelteefsvigieala--sdylyyitadrsvkaidlkdldk-ltvklkvvsqp
||| ||BB||| |||BB|BB| |||BBBBBB| BBBBBB||| ||| BBB BBBB
LCDDDDSEQNKKTKLQPIYAFKGHSDRVIDFLWR-SRHTCDGDYDDREFQL----VTWS

fsnrakyvalrvgggs----llvvvssktlkgkavle-----
B BBBBBB||| BBBBBB BB|BB|
K-----DCDLKLWPISDSIYGKVNFD---RGKRLEEKLDPDYDYCSYNKEPENR

```

6-6-bladed

```
>YDR128W
Raw score: -183.5049
P-value: 0.96589

atvvtetvyrepaidsqgrafats-sngkillldltgskkvlfrrpddnpspaviydtgk
      BBB|||BBBBBB|||BBBBBB      |BB|||      BBBB|   |||B
-----MCSSINEGPYNSPTFGKSLSLK----VDGGFNA-----VSINP-SGRD

llvvtrptnglviytlkwekktdigaialdnvndgafdtlkgalyvtdrkvgsvyifyld
BBBBB|||  BBBB|||      ||BB||  ||BBBBBB  ||BBBBBB
IVLASRQ--GLYIIDL-----DDPFTP-PRWLHHIT--PWQVADVQ--

sgkvtpl-fkglsingiaispdgltyirettrnkiwkfelgtslvlk-datgpvgisvd
|BB|||  ||      BBBB|||BBBBBB|||BBBBBB|      |||  |||||  |BBBB
-WSPHPAKPY-----WIVSTSNQKAIWNLAKSSSNAIEF----VLHGHSRAITDINFN

sdg-tlyvasgrsniarykls-kdivqiesp-gk-stysavspf--dgsvlvessnssly
|||  BBBB|||BBBBBB||  ||BB|||  ||  ||BBBB||  ||BBBBBB|||BBB
PQHPDVLATCSVDTYVHAWDMRSPHRPFYSTSSWRSAAQVKWNYKDPNVLASSHGNDIF

ilnweatvvtetvyrepaidsqgrafatssngkillldltgskkvlfrrpddnpspaviy
BBB|||      BBB  BBBB||  BBBB      BB      |||BBBB
VWDLRK-----GST---PLCSLKG--HVSSVN-----SI-----DFNRFKYS--

ntgkllvvtrptnglviytlkwekktdigaialdnvndgafdtlkgalyvtd-rkvgsvy
      BBBB|||  |BBBBB|||  |||      BB||  ||BBBBBB  |||BBB
---EIMSSSND-GTVKFWDYSKSTT---ESKR-----TVTT-NFPIWRGRYLPFGEGY

ifyldsgkvtplfkglsingiaispdgltyirettrnkiwkfelgtsl-vlk-datgpv
BBB  |BB|||      BBBB||  BBBB||  |BBBBBB|  |||  |||  |||||
CIM---PMVGGN-----NAVYLI--NLCDDD-DSEQNKKTKL-QPIYAFKGHSDRVI

gisvdsdgtlyvas--grsniaryklskdivqiespgkstysavspfdgsvlvess---n
|BBBB|||BBBBBB  |||BBBBBB|||BB|||      BBBB|  |BBBBBB|  |
DFLWRSRHTCDGDYDDREFQLVTWSKDCDLKLWPI-----SDSIY--GKVNFDGRKRL

sslyilnwe-----
|BBBBBB||
EKLDPDYDYCSYNKEPENR
```

6-7-bladed

```
>YDR128W
Raw score: -222.2170
P-value: 0.97066

atvvvtetvyrepaidsqgrafats-sngkilllldltgskkvlfrrpddnpspaviydtngk
      BBB|||BBBBBB|||BBBBBB      |BB|||      BBBB|   ||B
-----MCSSINEGPYNSPTFGKSLSLK----VDGGFNA-----VSINP-SGRD

llvvtrptnglviytlkwekktdigaialdnvndgafdtlkgalyvtdrkvgsvyifyld
BBBBB|||  BBBB|||      ||BB||  ||BBBBBB  ||BBBBBB
IVLASRQ--GLYIIDL-----DDPFTP--PRWLHHIT--PWQVADVQ--

sgkvtpl-fkglsingiaispdgltyirettrnkiwkfelgtslvlk-datgpvgisvd
|BB|||  ||      BBBB|||BBBBBB|||BBBBBB|      |||  |||||BBBB
-WSPHPAKPY-----WIVSTSNQKAIWNLAKSSSNAIEF----VLHGHSRAITDINFN

sdg-tlyvasgrsniaryklskdivqiespgkstysavspfdgsvlvessnsslyilnwe
||| BBBB|||BBBBBB|  BB|||  ||BBBB|  BBBB  BBBB|||
PQHPDVLATCSVDITYVHAWD---MRSPH---RPFYSTS---SWRSAA---SQVKWNYK

dveieapaygsavilgdssllliias-sgqvyywdlvtlktv-qrlp-lrsivssvafspd
|      |      BBBB|||BBBBBB|||  |||  BBBB  |||||BBBB|||
D-----P---NVLASSHGNDIFVWDLRKGSTPLCSLKGHVSSVNSIDFNRF

g-dkvavag-dgrvalydleakftaeapgkvtalavskdgnkvvvvgssdgalsvldleg
| |BBBBBB| |BBBBBB|      |BBBB|  ||BBBB|  BBBB|
KYSEIMSSSNDGTVKFWDY-----SKSTTE--SKRTVTN----FPIWRG--

tptvvelsdgvtsvldldpergtlyagakdgsiqvfdssksvaavtgkespravafspntg
BB|||  |||BBBB  |  BBBB  |BBBBB|||  ||BB|||  BBBB||| B
--RYLPF--GEGY CIM---P--MVGGN--NAVYLINLCDDDDSEQNK----KTKLQPI-Y

lyvlsegkvavidlddsevtvlrgedaltaiavspasvlyaatsdgtvylwdattkkekr
BBBBB||BBBBBB||  |||||  |  ||BBBB  |BBBB|||  BBBB|||  |||
AFKGHSRVIDFLWR--SRHTCDG-D-YDDREF----QLVTWSKDCDLKLWPISDSIYGK

vdalnds--vssvavddkplyvgtsgriviid-le--
||  |||  |||BBB|  |BBB      BBB|  ||
VN-FDRGKRLEEKLPD--YDYC-----SYNKEPENR
```

6-8-bladed

```
>YDR128W
Raw score: -490.3505
P-value: 0.99016

atvvttetvyrepaidsqgrafats-sngkilllldltgskkvlfprddnpspaviydtngk
      BBB|||BBBBBB|||BBBBBB      |BB|||      BBBB|   ||B
-----MCSSINEGPYNSPTFGKSLSLK-----VDGGFNA-----VSINP-SGRD

llvvtrptnglviytlkwekktdigaialdnvndgafdtlkgalyvtdrkvgsvyifyld
BBBBB||  BBBBBB|                ||BB||  ||BBBBBB  ||BBBBBB
IVLASRQ--GLYIIDL-----DDPFTP-PRWLHHIT--PWQVADVQ--

sgkvtplfkglsingiaispdgltyirettrnkiwkfelgtslvlkdatgpvgisvdsd
|BB      BBBB||  BBBBBB|||BBBBBB|                ||BBBB|
-WSP-----HPAKPY--WIVSTSNQKAIWNLAK-----SSSNAIE-

gtlyvasgrsniaryklskdivqiespgkstysavspfdgsvlvessnsslyilnwefed
BBBBBB|||BBBBBB|  |BB      BBBB|  BBBBBB  BBBBBB|
-FVLHGHSRAITDINFN---PQH-----PDVLA---TCSVDT---YVHAWDM---

lsellikildlnsvdekskvkvdstkndlsvsdgrfilveyqvk-sdasidiidlakrql
BBBBBBBBBBBBBB      |BBBB|||BBBBBB|BB  |BBBBBBBBBB  BB
--RSPHRPFYSTSS-----WRSAASQVKWNYKDPNVLASSHGNDIFV----WD

iteiikisnealvevskdkvlvgasvrndiavkdeksleskrivftrgtykiveyrgsal
|||      BBBB  BBBBB  |BBBBB      BB|                BBB|  B
LRK-----GSTP---LCSLK---GHVSSV-----NSI-----DFNR--F

iysgevdllayaskedlieysfktvrvpypaetvkfvvnaksitnltstaiqadhyln
BB|      BBBBBBBB|BBBBBBBBBBBBBB  BBBBBBBB      BBBB|||BBB|B
KYS----EIMSSNDGTVKFDYSKSTT----ESKRTVTT-----NFPIWRGRYLPF

vtwseqkllslaarrssivdvldrderdlsvadkvdswvrkrpngedaftvdgkvfyki
BBB|      BBBBBBBBBBBBBBBBBB|BBB|BBBBBB      BB|||  BBBBB
GEGY---CIMPMVGGNNAVYLINLCDDDDSEQNKKT-----KLQPI--YAFKG

isklgsiklrfqaikgevaelteefsvigiealasdylyitadrsvkaidlkdldkltvl
BB  |BBBBBBB|||  BB      BB|BB|||BBBBBB|  BBBBBB      BBB|
HS-DRVIDFLWRSR---HT-----CDGDYDDREFQLVTWS-KCDCLK-----LWPI

klkvvsqpfsnrakyvalrvggsgllvvvssktlkgkavle
|||BBBBB|||BBBBBB||  |BBBBBB  BB|BB  |
SDSIYGKVNFDRGKRLEEKLPD-YDYCSYN----KEPEN-R
```

7-6-bladed

```
>YDR128W
Raw score: -228.1169
P-value: 0.97656

dveieapaygsavilgdssllllias---sgqvyvwdlvtlktqrlplrsivssvafspd
                BBBBBB  ||BBBBBB|          BBBB|||||BBBBB|||
-----MCSSINEGPYNSPTFGKS-----LSLKVDGGFNAVSINPS

gdkvavagdgrvalydleakftaeapgkvtalavskdgnkvvvgssdgalsvldlegtp
||BBBBBB||BBBBBB|          BBBB||  BBBBB|  BBBBBB|||||
GRDIVLASRQGLYIIDL-----DDPFTP---PRWLHH----ITPWQVADVQ

tvvelsdgvtsvldldpergtlyagakdgsiqvfdssksvaavtgkespravafspntgly
BB|||  |BBBB  BBBBB  ||BBBBB||  BB||  BBBBB  BBB
WSPHP----AKPYW-----IVSTS-NQKAIWNL----AKSS-----SNAI----EFV

vlseg-kvcvidlddsevtvlrgedaltaiavspasvlyaatsdgtvyldattkkekrv
BBB|| BBBBBB||          ||BBBB  BBBBB|||||BBBBB|  |||
LHGHSRAITDINFN-----PQHPDV-----LATCSVDTYVHAWD-----MRS

dalndsvssvavddkplyvgtsgriviidleatvvtetvyrepaid-sqgrafatssngk
|          BBB  BBB|  BBB|||||          BBB  |||BBBBBB|||B
P-----HRP----FYST-----SSWRSAASQV-----KWNKYKDPNVLASSHGND

illldltgskkvlfrrp--dd--npspaviydnrtgkllvvtrptnglviytlkwekktdig
BBBBB|||||BB||||  ||  |||BBBB|||||BBBBBB||  BBBBBB|||||
IFVWDLRKGSTPLCSLKGHVSSVNSIDFNRFKYSEIMSSND-GTVKFWDYSKSTT----

aialdnvndgafdtlkgalyvtd-rkvgsvyifyldsgkvtplfkglsingiaispdgl
||||          BB||  ||BBBBBB  |||BBBBBB  |BB|||          BBBB||  B
ESKR-----TVTT-NFPIWRGRYLPFGEGYCIM---PMVGGN-----NAVYLI--N

lyirettrnkiwkfelgtsl-vlk-datgpvgisvdsdgtlyvas--grsniaryklskd
BBBBB  |||BBBBBB|  |||  |||  |||||BBBBB|||BBBBBB  |||BBBBBB||||
LCDDD-DSEQNKKTKL-QPIYAFKGHSRVIDFLWRSRHTCDGDYDDREFQLVTWSKDCD

ivqiespgkstysavspfdgsvlvess---nsslyilnwe-----
|BB|||          BBBB|  |BBBBBB|  ||BBBBBB|
LKLWPI-----SDSIY--GKVNFDGRKRLKLEELPDYDYCSYNKEPENR
```

7-7-bladed

```
>YDR128W
Raw score: -265.6058
P-value: 0.97788

dveieapaygsavilgdssllllias---sgqvyvwdlvtlktvqrlplrsivssvafspd
                BBBBBB  ||BBBBBB|      BBBB| |||||BBBBB|||
-----MCSSINEGPYNSPTFGKS-----LSLKVDGGFNAVSINPS

gdkvavagdgrvalydleakftaeapgvktalavskdgnkvvgssdgalsvldlegtp
||BBBBBB||BBBBBB|      BBBB||      BBBBB|      BBBBB|| |||
GRDIVLASRQGLYIIDL-----DDPFTP---PRWLHH----ITPWQVADVQ

tvvelsdgvtsvldldpergtlyagakdgsiqvfdssksvaavtgkespravafspntgly
BB|||      |BBBB      BBBBB  ||BBBBB||      BB||      BBBBB      BBB
WSPHP----AKPYW-----IVSTS-NQKAIWNL----AKSS-----SNAI----EFV

vlseg-kvcvidlddsevtvlrgedaltaiavspasvlyaatsdgtvylwdattkkekrv
BBB|| BBBBBB||      ||BBBB      BBBBB|| |||BBBB|      |||
LHGHSRAITDINFN-----PQHPDV-----LATCSVDITYVHAWD-----MRS

dalndsvssvavddkplyvgtsgriviidledveieapaygsavilgdss-llllias-sg
|      BBB      BBB|      BBB|||      ||||| ||| BBBBBB ||
P-----HRP----FYST-----SSWRSAA-----SQVKWNYKDPNVLASSHGN

qvyvwdlvtlktv-qrlp-lrsivssvafspdg-dkvavag-dgrvalydleakftaeaa
BBBBBB|| ||||| BBBB |||||BBBB||| |BBBBBB |BBBBBB|
DIFVWDLRKGSTPLCSLKGHVSSVNSIDFNRFKYSEIMSSSNDGTVKFWDY-----

pgkvtalavskdgnkvvgssdgalsvldlegtpvvelsdgvtsvldldpergtlyagak
|BBBB| ||BBBB|      BBBBB|      BB||| |||BBBB |BBBBB
----SKSTTE--SKRTVTTN----FPIWRG----RYLPF--GEGY CIM---P--MVGGN-

dgsiqvfdssksvaavtgkespravafspntglyvlsegkvcvidlddsevtvlrgedal
|BBBBB|| ||||BB|||      BBBB||| BBBBBB|BBBBBB|| ||||| |||
-NAVYLINLCDDDDSEQNK----KTKLQPI-YAFKGHSDRVIDFLWR--SRHTCDG-D-Y

taiavspasvlyaatsdgtvylwdattkkekrvdalnds--vssvavddkplyvgtsgr
|BBBB      |BBBB|| |||BBBB|| ||||| ||| |||BBB| |BBB
DDREF----QLVTWSKDCDLKLWPISDSIYGKVN-FDRGKRLEEKLPD--YDYC-----

viid-le--
BBB| ||
SYNKEPENR
```


7-8-bladed

```
>YDR128W
Raw score: -544.0443
P-value: 0.99301

dveieapaygsavilgdsslllias---sgqvyvwdlvtlkvtrplrsivssvafspd
                BBBBBB  ||BBBBBB|      BBBB| |||||BBBBB|||
-----MCSSINEGPYNSPTFGKS-----LSLKVDGGFNAVSINPS

gdkvavagdgrrvalydleakftaeapgkvtalavskdgnkvvvvgssdgalsvldlegtp
||BBBBBBB|BBBBBB|      BBBB||  BBBBB|      BBBB|| |||
GRDIVLASRQGLYIIDL-----DDPFTP---PRWLHH----ITPWQVADVQ

tvvelsdgvtsvldldpergtlyagakdgsiqvfdssksvaavtgkespravafspntgly
BB|||  |BBBB  BBBBB  ||BBBBB||  BB||  BBBB  BBB
WSPHP----AKPYW-----IVSTS-NQKAIWNL----AKSS-----SNAI----EFV

vlseg-kvcvidlddsevtvlrgedaltaiavspasvlyaatsdgtvyldattkkekrv
BBB||  BBBBBB||  ||BBBB  BBBB|| |||BBBB|  |||
LHGHSRAITDINFN-----PQHPDV-----LATCSVDTYVHAWD-----MRS

dalndsvssvavddkplyvgtsgriviidlefedlsellikildlnsvdekskvkvdstk
|      BBB  BBB|      BBB      BBBBBBBBBBBBB      |||
P-----HRP----FYST-----SSW-----RSAASQVKWNYK-----DPN

ndlsvsdgrfilveyqvksdasidiidlakrqliteiikisnealvevskdkvlvgasvr
BBBBB|||BBBBBB|BB|BBBBBBBB  BB      BBBB|  BBBB
-VLASSHGNDIFVWDLRKGSTPLCSLK----GH-----VSSVN---SIDFN---

ndiavkdeksleskrivftrgtykiveyrqsaliysgevdllayaskedlieysfktvr
BBBBB  BB|      BBB  BBB  BBBBBBBB BBBBBBBBBBBB
-RFKYS-----EIM-----SSS---NDG-----TVKFWDYS-KSTTESKRTVT

pypaetvkvfvnaksitnltstaiqadhylnvtwseqkllslaarrssivdvldrder
B  BBBBBBBB      BBBB  BBB BBBB  BBBBBBBBBBBBBBBBBB||B
T----NFPIWRGR-----YLPF---GEG-YCIM----PMVGGNNAVYLINLCDDDDS

dlsvadkvdsdwvrkrpngedaftvdgkvfykiisklgsiklfgaikgevaelteefsvi
BB||BBBBB      BB  BBBBBBB |BBBBBBB|||  BB
EQNKKTQLQ-----PI-----YAFKGHS-DRVIDFLWRSR---HT-----

giealasdylyyitadrsvkaidldkldklvtlklkvvsqpfsnrakyyalrvgggslly
BB|BB|||BBBBBB|  BBBBBB      BBB||| |BBBBB||| |BBBBB|  |BBB
CDGDYDDREFQLVTWS-KCDCLK-----LWPISDSIYGKVNFDGRKRLKLEKLPD-YDYC

vvssktlkgkavle
BBB  BB|BB |
SYN----KEPEN-R
```

8-6-bladed

```
>YDR128W
Raw score: -511.2834
P-value: 0.99404

-fedlsellikildlnsvdekskvkdstkndlsvsdgrfilveyqvksdasidiidlak
      BBBBBBBBBBBBB      BBBB|      BBBBBB|BB|BBBBBBBB
M-----CSSINEGPYNP-----TFGKS---LSLKVDGGFNAVSINPSG---

rqliteiikisnealvevskdkvlvgasvrndiavkdeksleskrivftrgtykiveyrg
BB      BBBBB|||BBBBB  ||BBBBB  |BB||||      BBB|
-RD-----IVLASRQGLYIID--LDDPFTP-----PRWLHHIT-----PWQV

saliys--gevdllayasked-lieysfktvrpypaetvkfvvnaksitnltstaiqa
||BBB|  |||BBBBBBBB| BBBBBBBBBBBB      BBBBBBBB||  |||BBBB|
ADVQWSPHPAKPYWIVSTSNQKAIWNLAKSSSN----AIEFVLHGHS--RAITDINFNP

--dhylndvtwseqkllslaarrssivdvlrde-rdlsvadkvdswvrkrpnedaft
|BBB|BBBB|  BBBBBBBBBBBBBBBBBB|| BBB|BBBBB      BB|
QHPDVLATCSVD---TYVHAWDMRSPHRPFYSTSSWRSASQVKW-----NYK

vdgkvfykiisklgsiklfqaikgevaelteefsvigiealasdylyitadrsvkaidl
||BBBBBBB BBBBBBB|      BB      BB|BB|  BBBBBB  BBBBBB
-DPNVLASSHG--NDIFVWDL-----RK-----GSTPLCS-LKGHVS---SVNSID-

kdldkltvlklkvvsqpfsnrakyvalrvgggsllvvvssktlkgkavleatvvtetvyr
BBB||||BBBBB|      BBBBBB|| |BBBBB  |BB|BB|||
-----FNRFKYSEIMSSSN----DGTVKFWD-YSKSTTE---SKRTVTTNF-----

epaidsqgrafatssngkillldltgskkvlfprddnpspaviydntgkllvvtrptngl
|BBB  |BBBBBB| BBBBBB  BB|||      BBBB  BBBBBB|| BB
-PIWR--GRYLPFGE--GYCIMP-----MVGGN-----NAVY-----LINLCDDD--DS

viytlkwekktdigaialdnvndgafdtlkgalyvtdrkvgsvyifyldsgkvtpflkg1
BBBB|      BB|  BBBBBB|||BBBBBB  |BB||||
EQNKK-----TKLQ---PIYAFKGHSRVIDFL---WRSRHTCD--

singiaispdgltyirettrnkiwkfelgtslvlkdatgpvgisvdsdgtlyvasgrsn
BBBB|||BBBBBB  BBBBBB|      BBBB| BBBBBB  B
----GDYDDREFQLVTWS----KCDLKL-----WPISD--SIYGKV---N

iaryklskdivqiespgkstysavspfdgsvlvessnsslyilnw
BBBBB|      BB      BBBB|  BBBBBB  BBBBBB|
FDRGKR----LE-----EKLPD---YDYCSY---NKEPENR-
```

8-7-bladed

```

>YDR128W
Raw score: -588.1530
P-value: 0.99759

-fedlsellikildlnsvdekskvkvdstkndlsvsdgrfilveyqvksdasidiidlak
      BBBBBBBBBBBBB      BBBB|      BBBBBB|BB|BBBBBBBB
M-----CSSINEGPYNP-----TFGKS---LSLKVDGGFNAVSINPSG---

rqliteiikisnealvevskdkvlvgasvrndiavkdeksleskrivftrgtykiveyrg
BB      BBBBB|||BBBBB  ||BBBBB      |BB||||      BBB|
-RD-----IVLASRQGLYIID--LDDPFTP-----PRWLHHIT-----PWQV

saliys--gevdllayasked-lieysfktvrpypaetvkfvvnaksitnltstaiqa
||BBB|  |||BBBBBBBB| BBBBBBBBBBBB      BBBBBBBB|      BBBB
ADVQWSPHPAKPYWIVSTSNQKAIWNLAKSSSN---AIEFVLHGH-----SRAI--

dhyIndvtwseqkllslaarrssivdvlrderdlsvadkvsdswvrkrpnedaftvdg
BBB|BBBB  ||BBBBBBBBBBBBBBBBBBB BBB| BBBBB      BB
-TDINFNPQ--HPDVLATCSVDTYVHAWDM--RSPH-RPFYS-----TS----

kvfykiisklgsiklfgaikgevaelteefsvigiealasdylyitadr-svkaidlkd
BBBBBBB| BBBBBBB      BB      BB|BB|||BBBBBB||| BBBBBB
-SWRSAA SQ-VKWN YKD-----PN-----VLASSHGNDIFVWDLRKGSTPLCS---

ldkltvklkvvsqpfsnrakyvalrvggsgllvvvssktlkgkavledveieapaygsa
BBB      BBBBB|      BBBBBB|  BBBBBB |||BB BB
---LKG-----HVSSVN---SIDFNRFK--YSEIMS-SSNDG-TV-----

vilgdssllliassgqvvdltvltkvtqrlplrsivssvafspdgdkvavagdgrvaly
BBBBBB| |BBBBBB      |BBBB      BBBB||      BBBBBB BBBBB
-----KFDYDYSKSTTESKR-----TVTTN-----FPIWRG---RYLPFG--EGYCI

dleakftaeeapgkvtalavskdgnkvvgssdgalsvldlegtpvvelsdgvtsvdld
B|      BBBBB|      |BBBBB|      BBBBB|      BB|||      BBBBB|
MP-----MVGGN---NAVYLIN---LCDDDD---SEQNK-----KTKLQ

pergtlyaga-kdgsiqvfdssksvaavtgkespravafspntglyvlsegkvavidldd
|      BBBBB |||BBBBB|      |BB|||      BBBB||| BBBBBB|BBBBBB|
P----IYAFKGHSDRVIDFL---WRSRHTC---DGDYDDR-EFQLVTWSKDCDLKL--

sevtvlrgedaltaiavspasvlyaatsdgtvylwdattkkekrrvdalndsvssvavddk
      BBBB      BBBB|  BBBB      ||| |||      |BBB|
-----WPIS-----DSIYGK---VNFD---RGK-RLE-----EKLDP--

plyvgtsgriviid-le--
|BBB      BBB|  |
YDYC-----SYNKEPENR

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8-8-bladed

```

>YDR128W
Raw score: -1042.4078
P-value: 0.99995

-fedlsellikildlnsvdekskvkdstkndlsvsdgrfilveyqvksdasidiidlak
      BBBBBBBBBBBBB      BBBB|      BBBBBB|BB|BBBBBBBB
M-----CSSINEGPYNP-----TFGKS---LSLKVDGGFNAVSINPSG---

rqliteiikisnealvevskdkvlvgasvrndiavkdeksleskrivftrgtykiveyrg
BB      BBBBB      BBBBB      BBBBB      BB      BBB|
-RD-----IVLA----SRQGL----YIIDL-----DD-----PFTP

saliysgevdllayaskedlieysfktvrpypaetvkfvvnaksitnltstaiqadhy
BBB      BBBBBBBB BBBBBBBBBBBB      BBBBBBBB||      BBBB      BB
--PRW-----LHHITPWQ-VADVQWSPHPAK----PYWIVSTSNO-----KAI--WN

lndvtwseqllslaarrssivdvldrderdlsvadkvdswvrkrpngedaftvdgkvf
B BBBBB      BBBBBBBBBBBBBBBBBBBB      BBB      BBBBB      BB      BB
L-AKSS----SNAIEFVLHGHSRAITD--INF--NPQHP-----DV-----LA

ykiisklgsiklfgaikgevaelteefsvigiealasdylyyitadrsvkaidlkdldkl
BBBBB      BBBBBBB|      BB      BB|BB      BBBBBB      BBBBBB      B
TCSVD--TYVHAWDM-----RS-----PHRPF---YSTSSW---RSAASQ-----V

tvklkvvsqpfsnrakyvalrvggsgllvvssktlkgkavlefedlsellikildlns
BB      |BBBBB      BBBBBB      BBBBBB      BB      BB      BBBBBBBBBBB
KW----NYKDPN-----VLASSH----GNDIFV----WD-LR-----KGSTPLCSLKG

vdekskvkdstkndlsvsdgrfilveyqvksdasidiidlakrqliteiikisnealve
B      BBBBB      |BBBBBB BB BBBBBBBB      BB|      BBB
H-----VSSV--NSIDFNR-FK-YSEIMSSS-----NDG-----TVK

vskdkvlvgasvrndiavkdeksleskrivftrgtykiveyrgsaliysgevdllayask
B      BBBBB      BBBBB      BB      BBB      BBB      BBBBBBB
F----WDYSK----STTES-----KR-----TVT---TNF-----PIWRGRY

edlieysfktvrpypaetvkfvvnaksitnltstaiqadhylndvtwseqllslaar
B BBBBBBBBBBBBB      BBBBBBBB      BBBB      BBB BBBB      BBBBBBB
L-PFGEGYCIMPV----GGNNAVYL-----INLC---DDD-DSEQ---NKKTKLQ

rssivdvldrderdlsvadkvdswvrkrpngedaftvdgkvfykiisklgsiklfgaik
BBBBBBBBBBB      BBB      BBBBB      BB      BBBBBBB|BBBBBBB
PIYAFKGHSD--RVI--DFLWR-----SR-----HTCDGDYDDREFQLVT---

gevaelteefsvigiealasdylyyitadrsvkaidlkdldkltvklkvvsqpfsnrak
BB|      BB      BB      BBBBBB      BBBBBB      BBB      BBBBB|      |
---WSK-----DC-DL---KLWPIS---DSIYGK-----VNF-----DRGKRL---E

yvalrvggsgllvvssktlkgkavle
BBBBBB      BBBBBB      BB|BB      |
EKLPDY----DYCSYN----KEPEN-R

```

If you use SMURF, please cite: [M. Menke, B. Berger and L. Cowen, "Markov random fields reveal an N-terminal double beta-propeller motif as part of a bacterial hybrid two-component sensor system" PNAS March 2, 2010 vol. 107 no. 9 4069-4074.](#)

WebsERVER by Matt Menke (Based on [Anoop Kumar](#)'s [Matt script](#))