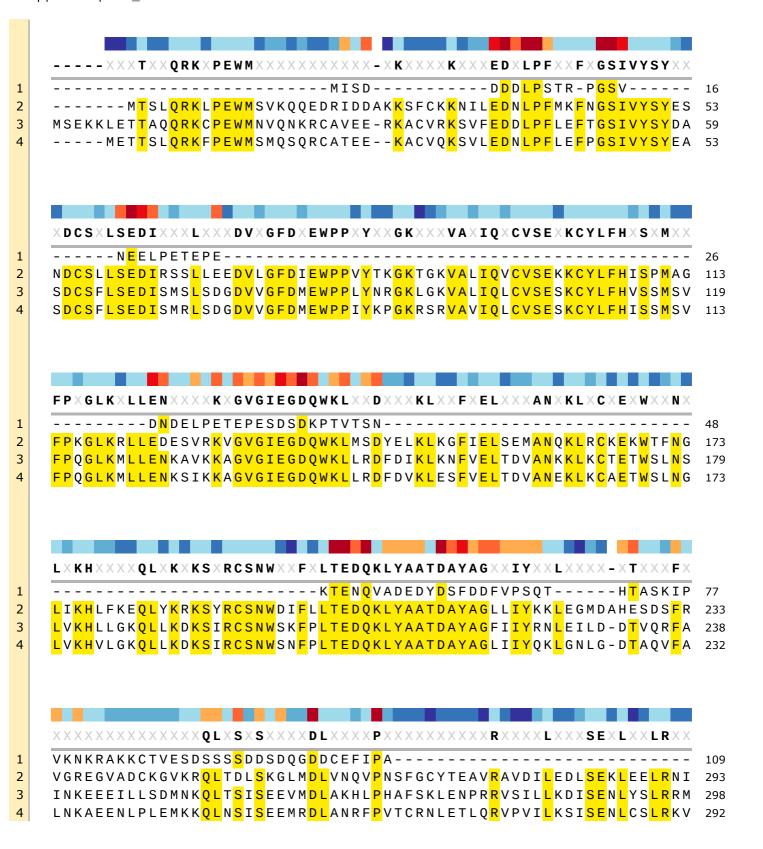
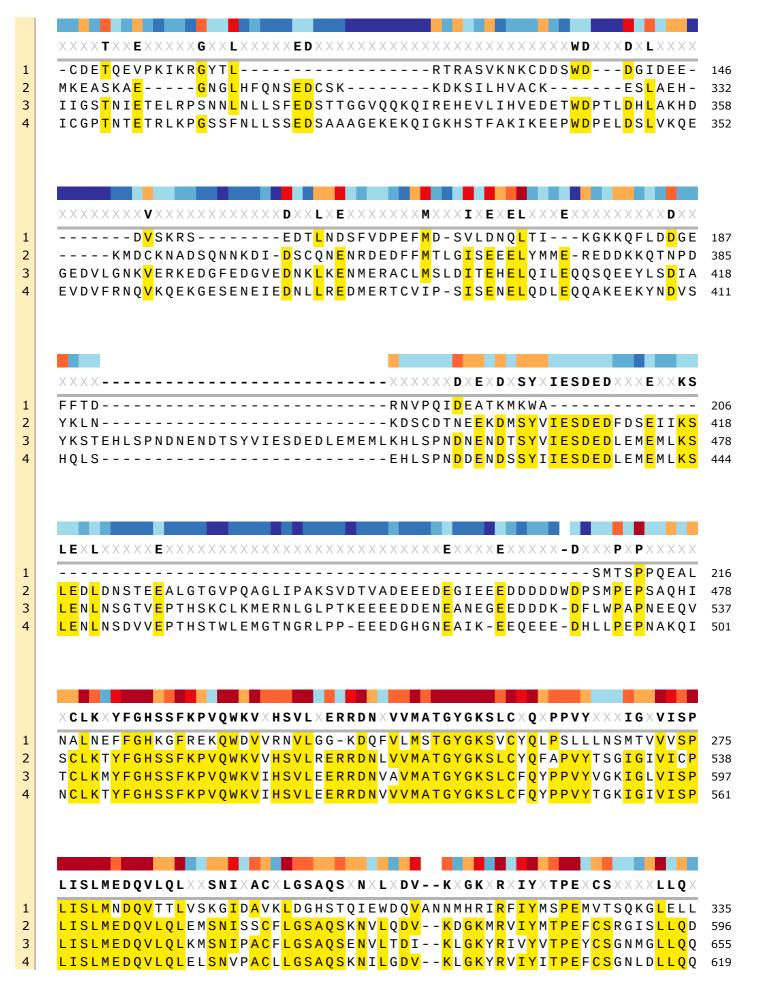
## Consensus

- 1. sp|Q19546|WRN\_CAEEL
- 2. sp|O93530|WRN\_XENLA
- **3.** sp|Q14191|WRN\_HUMAN
- 4. sp|009053|WRN\_MOUSE





NSEDASQDFGPQAFQLLSAV-DILQEKFGIGIPILFLRGSNSQ--RLPDKYRGHRLFGAG

1

2

3

4

1

2

3

4

1

2

3

4

1

2

3

4

1

2

3

4

1

2

3

4

972

KXQXEXWWKXLXXXLIXEGXLXEVX-XXXKFXXXCXLTXKGXXWL--XKAXXXXXXSLLL KHIPDKWWKALAASLRIAGYLGEVRLMOMKFGSCITLSELGERWLLTGKEMKIDATPILL KDQTEAFWKVLARQLITEGYLQESS-GQTKFSTICGLTSKGSNWL--IKANNEQCPSLLL KDQTESWWKAFSRQLITEGFLVEVS-RYNKFMKICALTKKGRNWL--HKANTES-QSLIL KEQAESWWKTLSHHLIAEGFLVEVP-KENKYIKTCSLTKKGRKWL--GEASSQSPPSLLL OGKK<mark>E</mark>K------KILGANKIRE<mark>Y</mark>EPANE PSNNELCLORTRVSNFSSAQAHSSMV<mark>P</mark>HASSNTRSSM<mark>P</mark>KAGP--EKME<mark>L</mark>KDKF<mark>SY</mark>QEAER <mark>0</mark> A N E E L C P K K L L L P - - - - - S S K T V S S G T K E H C Y N Q V <mark>P</mark> V E L S <mark>T E K</mark> K S N <mark>L</mark> E K L Y <mark>S Y</mark> K P C D K QANEEMFPRKVLLP-----SSNPVS<mark>P</mark>ETTQHSSNQN<mark>P</mark>AGLT<mark>T</mark>-<mark>K</mark>QSN<mark>L</mark>ERTH<mark>SY</mark>KVPEK × S × × × N × × K × S × × × × × P × K × × × × × × × P × × S × × E × × × × × × L Y × R L V × A R Q K × A N × × D V × P A × NEOLM<mark>N</mark>LKKOEVT-GLPEKIDO-------LRSRLDDIRVGIANMHE<mark>V</mark>APFO L<mark>S</mark>KAAGVS<mark>K</mark>S<mark>S</mark>FKLQT<mark>PCK</mark>LSRPPE<mark>P</mark>EV<mark>S</mark>PR**E**RELQTT<mark>LYGRLV</mark>VARQKIASER**D**IL<mark>PA</mark>V I<mark>S</mark>SGSNIS<mark>KKS</mark>IMVQS<mark>PEK</mark>AYSSSQ<mark>P</mark>VI<mark>S</mark>AQ<mark>E</mark>QETQIV<mark>LY</mark>GK<mark>LVEARQK</mark>HANKM<mark>DV</mark>PPAI V<mark>S</mark>SGT<mark>NIPKKS</mark>AVMPS<mark>P</mark>GTSSSPLE<mark>P</mark>AI<mark>S</mark>AQ<mark>E</mark>LDARTG<mark>LYARLVEARQKHAN</mark>KM<mark>DV</mark>P<mark>PA</mark>I  $\texttt{LATNKVL} \\ \texttt{DMAK} \\ \texttt{XRPTT} \\ \texttt{XEN} \\ \texttt{K} \\ \texttt{XIDGVSE} \\ \texttt{K} \\ \texttt{XA} \\ \texttt{LAP-LLEV} \\ \texttt{K} \\ \texttt{XFC} \\ \texttt{X} \\ \texttt{XS} \\ \texttt{XTD} \\ \texttt{XS} \\ \texttt{XS} \\ \texttt{XTD} \\ \texttt{XS} \\ \texttt{XS} \\ \texttt{XTD} \\ \texttt{XS} \\ \texttt{XS} \\ \texttt{XS} \\ \texttt{XTD} \\ \texttt{XS} \\ \texttt{XS}$ IVS<mark>NTVLDCFANLRPT</mark>SAS<mark>N</mark>LEM<mark>IDGMS</mark>AQQKSRYGKRFVDCVVQ<mark>F</mark>SKETGIA<mark>T</mark>NVNAND LATNKVLVDMAKLRPTTSENMKKLDGVSEAKSAMLAP-LLEVVKEFCIANSLKVDVFSGS LATNKILVDMAKMRPTTVENVKRIDGVSEGKAAMLAP-LLEVIKHFCOTNSVOTDLFSST LATNKVLLDMAKMRPTTVENMKQIDGVSEGKAALLAP-LLEVIKHFCQVTSVQTDLLSSA MIPP<mark>E</mark>-----LISKMOKV<mark>L</mark>SDAVRRV<mark>Y</mark>TEHLISRSTA<mark>K</mark>EV<mark>A</mark>TARGISEGTVYSY<mark>L</mark>AM<mark>AV</mark>E VSQS<mark>E</mark>STFFTPREQERIS<mark>L</mark>PE<mark>S</mark>QRMS<mark>Y</mark>SLFQEQNLS<mark>LK</mark>KIADV<mark>R</mark>CLSMAVV<mark>GMHL</mark>WQAL<mark>K</mark> KPOEEOKTSLVAKNKICTLSOSMAITYSLFOEKKMPLKSIAESRILPLMTIGMHLSOAVK KPHK<mark>E</mark>QEKSQEMEKKDCS<mark>L</mark>PQ<mark>S</mark>VAVT<mark>Y</mark>TLFQEKKMP<mark>L</mark>HS<mark>IA</mark>EN<mark>R</mark>LLPLTAA<mark>GMHL</mark>AQAVK AGXPLDXXRAGLTPEXXKXIXXXIRXPPXNSDXXXXX--XIRMXVPXNXDXYXIXMAIXI K<mark>G</mark>LPLHLDKLNVSRKNIAMALNAV<mark>R</mark>-VHLG<mark>S</mark>NVAVLTPWVEA<mark>M</mark>G<mark>V</mark>VPDFNQLKLIR<mark>AIL</mark>I AGYSFDVQRAGLTPEMKKLITYAIKKPPINSDLSSFK--AIREYVPANIDG<mark>Y</mark>PIRMVISL AGCPLDLERAGLTPEVOKIIADVIRNPPVNSDMSKIS--LIRMLVPENIDTYLIHMAIEI 

AGYPLDMERAGLTPETWKIIMDVIRNPPINSDMYKVK--LIRMLVPENLDTYLIHMAIEI

GSSSSMAKTKKKGLFS 1401

Consensus Threshold: >50%

Compare to: the consensus

Amino acids that match the reference are marked with yellow highlighting.

**Created:** 30 Jan 2020

Last Modified: 30 Jan 2020