

Trubripesdoc2a	-----MTVRK-GKSLAITIQEHMAIDVCPGPIRPIRQISAYFFPRLSPTSSSFSEPLSPNQVAAPTALSPGSGVGHSGGAIGGGSGGGGSSSLL
Tnigroviridisdoc2a	-----MTVRK-GKSLAITIQEHMAIDVCPGPIRPIRQISAYFFPRLSPTSSSFSEPLSPNQVAAPTTLSPGGAGHSGGAAGGGSGGGSGGGLL
Gaculeatusdoc2aa	-----MTVRK-GKSLAISIQEHMAIDVCPGPIRPIRQISAYFFPRLSPTSSSFSEQLSPNQAAAPTSLSPGAAA-----GRSGGLL
Gaculeatusdoc2ab	-----MMALRG-GKKLSISIQEHMAIDVCPGPIRPIRQISAYFFPRLSPT-----SPGPTSSPLALSPGVGG-----AHLL
Olatipesdoc2aa	-----MTVRQ-GNRLGISIQEHMAINVCPGPIRPIRQISSYFFPRLSPTSSSFSEPLSPNQLTAPAPLSPGGSGQDGGAVGGGEGGG-SRSFL
Olatipesdoc2ab	-----MTVQR-GKKLSISIQEHMAIDVCPGPIRPIRQISAYFFPRLSPTSPTPLSPNPSPSPPPNTSPVALSPPV-----ASAMGGAHL
Dreriodoc2a	-----MTVRK-GKKLTISIQEHMAIDVCPGPIRPIRQISAYFFPRLSPTA---EPVSPNP-ASPLSLSPGLGA-----SGGASGGLL
Xtropicalisdoc2a	-----MTVRR-GDRAPVPIREHMAIDVSPGPIRPIAQISAYFFPHGL-----EVLSTRD-----
Acarolinensisdoc2a	-----MTLRK-GEKMTISIQEHMAIDVCPGPIKPIKQISDYFFPRFPRGLPAPVPRGHCRPPAAQGSGPSD-----PPREDD
OanatinusDoc2a	-----MRGRR-GDRMTINIQEHMAINVCPGPIRPIRQISDYFFPRLGP-----EGGSGADPQAQLSPGA-----GAAATPS
MdomesticaDoc2a	-----MRGRR-GDRMTINIQEHMAINVCPGPIRPIRQISDYFFPRRGP-----GPEGGGG-----GGGT-----GCGEAPA
MmusculusDoc2a	-----MRGRR-GDRMTINIQEHMAINVCPGPIRPIRQISDYFFPR-GP-----GPEGGGG-----SGG-----EAPA
HsapiensDOC2Avar1	-----MCAHECVPVRVPLRECARASTRVCARSRALPSGPRVGVR-DPAPSPAPAPLPVPRRRAGCILASTSLTPSSPHFLG-----APSLSARTARLRALLAG-----RRRPACA
HsapiensDOC2Avar2	-----MCAHECVPVRVPLRECARASTRVCARSRALPSGPRVGVR-DPAPSPAPAPLPVPRRRAGCILASTSLTPSSPHFLG-----APSLSARTARLRALLAG-----RRRPACA
HsapiensDOC2Avar3	-----MCAHECVPVRVPLRECARASTRVCARSRALPSGPRVGVR-DPAPSPAPAPLPVPRRRAGCILASTSLTPSSPHFLG-----APSLSARTARLRALLAG-----RRRPACA
HsapiensDOC2Avar4	-----MCAHECVPVRVPLRECARASTRVCARSRALPSGPRVGVR-DPAPSPAPAPLPVPRRRAGCILASTSLTPSSPHFLG-----APSLSARTARLRALLAG-----RRRPACA
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Tnigroviridisdoc2b	-----MTQRK-GEKPTISIQEHMAIDVCPGPIQPIKQISDYFFPRYPRGLPPALAHAPAGRTGSLCSALSSSPAAS-----ESERPNEDEKPER
Gaculeatusdoc2b	-----MTQRK-GEKPTISIQEHMAIDVCPGPIQPIKQISDYFFPRYPRGLPPAAPQAGHAGPPSPALSTSTSTSAASSTAESDRTNEDKPER
Olatipesdoc2b	-----MTQRK-GEKPTISIQEHMAIDVCPGPIQPIKQISDYFFPRYPRGLPAAAPH-VGPPRSPLSTPSTSVSAA-----ESERPDEDSPER
Dreriodoc2b	-----MTQRK-GEKTTISIQEHMAIDVCPGPIQPIKQISDYFFPRYPRGLPPTAPPALSRAGSLRSSSTSQKSEGPQ---ADANRDEDDLQQA
Xtropicalisdoc2b	-----MTLRK-GEKMTISIQEHMAIDVCPGPIKPIKQISDYFFPRFPRGIPAAVTRA---N--SLKSNVSPSVSPCETSK-EEEDVDKL
Acarolinensisdoc2b	-----MTLRK-GEKTTISIQEHMAIDVCPGPIRPIKQISDYFFPRFPRGLPATVSRNSLSRSSSQAAVSPSETAPR-----EDDEDVDQL
GgallusDOC2B	-----MTLRK-GEKTTISIQEHMAIDVCPGPIKPIKQISDYFFPRFPRGLPAAVGRS---G--ALRPAVSPSVGPTETPR-EDDEDVDQL
TguttataDOC2Bvar1	-----MTLRK-GEKMTISIQEHMAIDVCPGPIKPIKQISDYFFPRFPRGLPAAAGRS---SGSAPRPTPRQPTGDPAEHPRHEEEDVDQL
TguttataDOC2Bvar2	-----MTLRK-GEKMTISIQEHMAIDVCPGPIKPIKQISDYFFPRFPRGLPAAAGRS---SGSAPRPTPRQPTGDPAEHPRHEEEDVDQL
OanatinusDoc2b	-----MTLRK-GEKMTISIQEHMAIDVCPGPIKPIKQISDYFFPRFPRGLPAPVPR-----GHCPRPAAQGSGPSDPPR-EDDEDVDQL
MdomesticaDoc2b	-----MTLRR-GEKTTISIQEHMAIDVCPGPIKPIKQISDYFFPRFPRGLPTSFSR-----AGSLQAGGSQASVSPSDPPR-DDEEDVDQL
MmusculusDoc2b	-----MTLRRRGEKATISIQEHMAIDVCPGPIRPIKQISDYFFPRFPRGLPPTAAPRAPAPPDAPARSPAASASPRSPSDGAR-DDEDVDQL
HsapiensDOC2B	-----MTLRRRGEKATISIQEHMAIDVCPGPIRPIKQISDYFFPRFPRGLPPTAGPRAAAPPDAPARPAVAGAGRRSPSDGAR-EDDEDVDQL
Trubripesdoc2d	MSVSKPPPPPS-----TSHLAIPPSSTSCPS-SSSSSPSATPHTTSMPPASPVKISMQEHFAINVCPGPILPPIQISDFFPRFHDYPTPPPPREKKILKEETFNGETGG-----GYRDGERR
Tnigroviridisdoc2d	MSVSKPPPPPS-----TAHLAIPPSSTSSPS-PSASSPSATPHATSMPPASPVKISMQEHFAINVCPGPILPPIQISDFFPRFHDYPTPPPPREKKILKEETFNGETGG-----GYRDGERR
Gaculeatusdoc2d	MSVSKPPPPPS-----TSHLAIPPSSTSAAPS-SSATSPSATPHAPAGPPPSPVKISMQEHFAINVCPGPILPPIQISDFFPRFHDYPTPPPPREKKILKEETFNGETGV-----GYKDGERR
Olatipesdoc2d	MSVSKPPPPPS-----TSHLTIPPPSASAPS-SSASSPLATPHSTAPPPSPVKISMQEHFAINVCPGPILPPIQISDFFPRFHDYPTPPPPREKKILKEETFNGETGG-----GHLDGERR
Dreriodoc2dvar1	MSVSKPPPPQSHFFPNNTTSHLPLPPSSSSTPSPSTPPSAAGPPSPAVPPPPSPVKISMQEHFAINVCPGPILPPIQISDFFPRFHDFFITPPPPPREKQVLKDKDKDGRD-----GEKDRKRE
Dreriodoc2dvar2	MSVSKPPPPQSHFFPNNTTSHLPLPPSSSSTPSPSTPPSAAGPPSPAVPPPPSPVKISMQEHFAINVCPGPILPPIQISDFFPRFHDFFITPPPPPREKQVLKDKDKDGRD-----GEKDRKRE
MmusculusDoc2gvar1	-----MACAGPASGRQRVSMQEHMAIDVSPGPIRPIRLISNYFFPHFYPFLEPVLRAPDRQAMLAPAIPSAPO-----
MmusculusDoc2gvar2	-----MAGTAAAGGQPPRVSMQEHMAIDVSPGPIRPIRLISHYFFPHFYPFAEPALHPPNLRPAAASAVRSAPQ-----
Hsapiensdoc2g1	-----MAGTAAAGGQPPRVSMQEHMAIDVSPGPIRPIRLISHYFFPHFYPFAEPALHPPNLRPAAASAVRSAPQ-----
Hsapiensdoc2g2	-----MAGTAAAGGQPPRVSMQEHMAIDVSPGPIRPIRLISHYFFPHFYPFAEPALHPPNLRPAAASAVRSAPQ-----

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Trubripesdoc2a      SPLL-LGVGGGGGSLSAMS-----SMDTSEIDSCSDSDNTSLGTLFEDLLYERGTSSLHCTVLKAK-----GLKPMDFNGLADPYVKLHLLPGACKANKLKTKTTRNTLNPNVWNETLTY
Tnigroviridisdoc2a SPLL-PGAGGGG-SLSAMS-----SMDTSEIDSCSDSDNTSLGTLFEDLLYERATSSLHCTVLKAK-----GLKPMDFNGLADPYVKLHLLPGACKANKLKTKTTRNTLNPNVWNETLTY
Gaculeatusdoc2aa   SPLL-PGAAGGGGSLSAMS-----SMDTSEIDSCSDSDNTSLGTLFEDLLYERATSSLHCTVLKAK-----GLKPMDFNGLADPYVKLHLLPGACKANKLKTKTTRNTLNPAWNETLTY
Gaculeatusdoc2ab   SPLLVPGRPSPMGGSLSLNS-----SMDTSEVITSDSDSDCTALGTLFEDLLRYERSSSELHCTVLKAK-----GLKSMDFNGLSDPYVKLHLLPGACKANKLKTKTTRNSLNPVWNETLTY
Olatipesdoc2aa     SPLL-PGAAGGGGSLSAMS-----SMDTSEIDSCSDSDNTSLGTLFEDLLYERATSSLHCTVLKAK-----GLKPMDFNGLADPYVKLHLLPGACKANKLKTKTTRNTLNPNVWNETLTY
Olatipesdoc2ab     LSPLRAHRGWGGGSLSQNS-----SMDTSEVINSDDSDCTALGTLFEDLLRYEQISSSELHCTVLKAK-----GLKPMDFNGLADPYVKLHLLPGACKANKLKTKTTRNSLNPVWNETLI
Dreriodoc2a        SPLQ-AGARGGGGTLSAAS-----SIETSDVICSSDSDSTALGTLFEDLLRYEKATSSLNCTIIRAK-----GLKPMDFNGLADPYVKLHLLPGACKANKLKTKTTRNSLNPVWNETLTY
Xtropicalisdoc2a   -----XALGTLFEDLLYDPEQCILQCCILRAK-----GLKPMDFNGLADPYVKIHLLPGACKANKLKTTRTVRNSLNPWTWNESLTY
Acarolinensisdoc2a -----RMRGQGATTASP-----GTGEGESADGDDSDNTSLGTLDFDLLYDPESTCLDCTILRAK-----GLKPMDFNGLADPYVKLHLLPGACKANKLKTTRTQNTLNPNWNESLTY
OanatinusDoc2a     EDVDQLFGAFGSSPAGQPA-----KQKEEVDAEGYESDDCTTLGTLFEDLLYDQASCTLHCSIIRAK-----GLKPMDFNGLADPYVKLHLLPGACKK-----
MdomesticaDoc2a    -LPTLTLSL--GAGIRGAG-----ASEEGAEVDSYSDSDTTALGTLFEDLLYDQASCTLHCSIIRAK-----GLKPMDFNGLADPYVKLHLLPGACKANKLKTQRTNTLNPNWNEDLMY
MmusculusDoc2a     HLAPLALAP--PAALLGAT-----TPDDGAEVDSYSDSDTTALGTLFEDLLYDQASCLMHCRILRAK-----GLKPMDFNGLADPYVKLHLLPGACKANKLKTQRTNTLNPNVNEELTY
HsapiensDOC2Avar1  HLVPLALAP--PAALLGAT-----TPEDGAEVDSYSDSDTTALGTLFEDLLYDRASCTLHCSIIRAK-----GLKPMDFNGLADPYVKLHLLPGACKANKLKTQRTNTLNPNWNEDLTY
HsapiensDOC2Avar2  ●-----MDFNGLADPYVKLHLLPGACKANKLKTQRTNTLNPNWNEDLTY
HsapiensDOC2Avar3  ●RRPPSAWAPVGGRAALLGAT-----TPEDGAEVDSYSDSDTTALGTLFEDLLYDRASCTLHCSIIRAK-----GLKPMDFNGLADPYVKLHLLPGACKANKLKTQRTNTLNPNWNEDLTY
HsapiensDOC2Avar4  ●-----MSL

Trubripesdoc2b     ASAGAAAAAAAAA---PSPQSS-----RRDEEPDVEGYSDSDSTTLGTLDFSLLYDQENNALHCTINKAK-----GLKPMDDYNGLSDPYVKLHLLPGASKANKLKTTLTHTNLNPVWSETLTY
Tnigroviridisdoc2b ACAGAAAAATSAATATPSSQSS-----RRDEEPDVEGYSDSDSTTLGTLDFSLLYDQENNALHCTINKAK-----GLKPMDDYNGLSDPYVKLHLLPGASKANKLKTTLTHTNLNPVWSETLTY
Gaculeatusdoc2b    ACASA-----SSQAG-----RRDEEPDVEGYSDSDSTTLGTLFESLQYDQENNALNCTINKAK-----GLKPMDDHNGLSDPYVKLHLLPGASKANKLKTTLTHTNLNPVWSETLTY
Olatipesdoc2b      ACAGATA-----SPQAA-----RRDEEPDVEGYSDSDSTTLGTLDFSLLYDQENNALHCTINKAK-----GLKPMDDHNGLSDPYVKLHLLPGASKANKLKTTLTHTNLHPVWNETLTY
Dreriodoc2b        FGATALV-----AS-----KKEEPPDVEGYSDSDSTTLGTLDFSLLYDQENNALHCTINKAK-----GLKPMDDHNGLSDPYVKLHLLPGASKANKLKTTLTHTNLNPVWSETLTY
Xtropicalisdoc2b   FGAYGAA-STAPAKH-----EEEGDLGDYSDSDCTTLGTLDFSLLYDQENNALHCTINKAK-----GLKPMDDHNGLSDPYVKLHLLPGASKANKLKTTLTHTNLNPTWNETLTY
Acarolinensisdoc2b FGAYGTEPVEQPAKPVVK-----QEEEAVDADGYESDDCTALGTLDFSLLYDQENNALHCTINKAK-----GLKPMDDHNGLSDPYVKLHLLPGASKANKLKTTLTHTNLNPTWNETLTY
GgallusDOC2B       FGAYGTTPAPPPAKCPP-----AEEAVDPEGYESDDCTALGTLDFSLLYDQENNALHCTINKAKLPKLDYKKGLKPMDDHNGLADPYVKLHLLPGASKANKLKTTLTHTNLNPTWNETLTY
TguttataDOC2Bvar1  FGAGHTTPAEQPAKSA-----PEEVDPPEGYESDDCTALGTLDFSLLYDQENNALHCTINKAKLPKLDYRKGLKPMDDHNGLADPYVKLHLLPGASKANKLKTTLTHTNLNPTWNETLTY
TguttataDOC2Bvar2  ●FGAHGTPAEQPAKSA-----PEEVDPPEGYESDDCTALGTLDFSLLYDQENNALHCTINKAK-----GLKPMDDHNGLADPYVKLHLLPGASKANKLKTTLTHTNLNPTWNETLTY
OanatinusDoc2b     FGAFGSSPAGQPAKQ-----KEEVDAEGYESDDCTALGTLDFSLLYDQENNALHCTINKAK-----GLKPMDDHNGLADPYVKLHLLPGASKANKLKTTLTHTNLNPTWNETLTY
MdomesticaDoc2b    FGAYGSPARLRQPPPPSQPPGSGSSGSGFGKPEEDIDGEGYESDDCTTLGTLDFSLLYDQENNALHCTISAK-----GLKPMDDHNGLADPYVKLHLLPGASKANKLKTTLTHTNLNPTWNETLTY
MmusculusDoc2b     FGAYGASPGSPGSPSPARPPAK-----PPEDEPDVDGYESDDCTALGTLDFSLLYDQENNALHCTISAK-----GLKPMDDHNGLADPYVKLHLLPGASKANKLKTTLTHTNLNPSWNETLTY
HsapiensDOC2B      FGAYGSSPGSPGSPSPARPPAK-----PPEDEPDADGYESDDCTALGTLDFSLLYDQENNALHCTITAK-----GLKPMDDHNGLADPYVKLHLLPGASKANKLKTTLTHTNLNPTWNETLTY

Trubripesdoc2d     EC-----NDGEREEALESDDDDTYLGTLEFNLFFDQENNLHCTILKAR-----GLKAMDSNGLADPYVKLHLLPGASKANKLKTTLKNTLNPNVWNETLVY
Tnigroviridisdoc2d EC-----NDGEREEALDSDDDDTYLGTLEFNLFFDQDNCLHCTIHAK-----GLKAMDSNGLADPYVKLHLLPGASKANKLKTTLKNTLNPNVWNETLVY
Gaculeatusdoc2d    LD-----NDGDREEAVDSDDEDTYLGTLEFNTLLFDQENNLHCTINKAK-----GLKAMDSNGLADPYVKLHLLPGASKANKLKTTLKNTLNPNVWNETLMY
Olatipesdoc2d      GE-----NDNGEVEVLSDDDDDTYLGTLEFNTLLFDQENNLHCTIHAK-----GLKAMDSNGLADPYVKLHLLPGASKANKLKTTLKNTLNPNVWNETLIY
Dreriodoc2dvar1    RE-----QEENGEFA-DSDDDDTYLGTLEFNLFFDQENNLHCTIHAK-----GLKAMDSNGLADPYVKLHLLPGASKANKLKTTLKNTLNPNVWNETLIY
Dreriodoc2dvar2    -----

MmusculusDoc2gvar1 -----LQPNPEPEG-DSDDSTALGTLFETLLFEDNSALHCTAHRAK-----GLKP-PAAGSVDTYVKANLLPGASKASQLRTRTVRGTRPVPWEETLTY
MmusculusDoc2gvar2 -----LQPDPEPEG-DSDDSTALGTLFETLLFEADNSALHCTAHRAK-----GLKPL-ASGSADAYVKANLLPGASKASQLRTHTVRGTRVPVWEETLTY
Hsapiensdoc2g1     -----
Hsapiensdoc2g2     -----

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Tnigroviridisdoc2a	CGITEEDMYRKTLRVSVCDDEKLTHNEF---IGESRVALLRRVKPDQTKHFNICLEHPPPLPSPPTAMSTALRGISCYLRLEWETEQQRS--LEERGRLLLLCLQYLPPAC--DGDVQGEAK--DRARGGLCVGV
Gaculeatusdoc2aa	CGITEEDMYRKTLRVSVCDDEKLTHNEF---IGESRVALLRRVKPDLTQKHFNICLEHPPX-----GISCYLRLEWETEQQRC--LEERGRLLLLCLQYFPAS--DGDAGGEAK--ERARGGLCVGV
Gaculeatusdoc2ab	VGITEEDMHRKTLRLTVCDDEKLTHNEL---IGESRVPLKRVKLDQTKHFHTCLEHPPPLPSPPTAMGEALRGISCYLRLEWENEQLHS--LEERGRLLLLSLQFQPPVGLLEETNVGGGGG--DRRRSGGLCVGV
Olatipesdoc2aa	CGITEEDMYRKTLRVSVCDDEKLTHNEF---IGESRVALLRRVKPDQTKHFNICLEHPPPLPSPPTAMNTALRGISCYLRLEWETEQQRS--LEERGRLLLLCLQFLPPNS--DGDLKAEAK--ESARGGLCVGV
Olatipesdoc2ab	VGITEEDMHRKTLX-----XWENEQLHS--LEERGRLLLLSLQFLPPSPEDPDGDGRGRGDGRGRNGGLCVAV
Dreriodoc2a	VGITEEDMHRKTLRLSVCDDEKLTHNEF---IGESRVALLRRVKPDQTKRFTYTCLEHPPPLPSPPTAMGAALRGISCYLRLEWENEQMTS--LEERGRLLLLSLQFLPPPA-----EGEG-----ESRRGGLCVGV
Xtropicalisdoc2a	CGITQEDMGKKILRISVCDDEKLSHNEF---IGETRVLRLRLKPKGERKHFNLCLERQIPLASPSMSMAALRGISCYLRLELERCQEWEE--LEERGRILLSLTY-----SSERGGLLVGI
Acarolinensisdoc2a	NGITAEDMARKTLRISVCDDEKLTHNEF---IGETRVLRLRLPKQKRFHNLCLERQVPLASPSMSMAALRGISCYLRLELPPTGWA--LEERGRILLALTY-----ISERHGLVSI
OanatinusDoc2a	-----XIAVCDDEKLSHNEF---IGETRVLRLRLKPKAQKHFNICLERQVPLASPSMSAALRGISCYLRLELERAEGQGGLLEERGRILLSLTYS-----SQQPRGLLVGI
MdomesticaDoc2a	RGITDEDITRKVLRISVCDDEKLSHNEF---IGETRVLRLRLKPSQKKHFNICLEPQVPLASPSMSMAALRGISCYLRLELERAEGQGGLLEERGRILLSLTY-----KSQRRGLLVGI
MmusculusDoc2a	SGITDDDIITHKVLRIASVCDDEKLSHNEF---IGETRVLRLRLKPSQKKHFNICLERQVPLASPSMSAALRGISCYLRLELQAEQGPGGLLEERGRILLSLYS-----SSRRHGLLVGI
HsapiensDOC2Avar1	SGITDDDIITHKVLRIASVCDDEKLSHNEF---IGETRVLRLRLKPSQKKHFNICLERQVPLASPSMSAALRGISCYLRLELQAEQGQGGLLEERGRILLSLYS-----SSRRRGLLVGI
HsapiensDOC2Avar2	SGITDDDIITHKVLRIASVCDDEKLSHNEF---IGETRVLRLRLKPSQKKHFNICLERQVPLASPSMSAALRGISCYLRLELQAEQGQGGLLEERGRILLSLYS-----SSRRRGLLVGI
HsapiensDOC2Avar3	SGITDDDIITHKVLRIASVCDDEKLSHNEF---IGETRVLRLRLKPSQKKHFNICLERQVPLASPSMSAALRGISCYLRLELQAEQGQGGLLEERGRILLSLYS-----SSRRRGLLVGI
HsapiensDOC2Avar4	● LGRSACPSAASSLRRRSILTSASSAKSR---SVWGLQGROGRGPWGGQASRTFSLPPQLASPSMSAALRGISCYLRLELQAEQGQGGLLEERGRILLSLYS-----SSRRRGLLVGI
Trubripesdoc2b	YGITDEDMVRKTLRISVCDDEKFRHNEF---IGETRIPLKKLKPQTKNFNNCLEKQLPYNKAEDKS-----LEERGRIMISLKY-----NTQKSCLVVGI
Tnigroviridisdoc2b	YGITDEDMVRKTLRISVCDDEKFRHNEF---IGETRIPLKKLKPQTKNFNNCLEKQLPYNKAEDKS-----LEERGRIMISLKY-----NTQKSCLVVGI
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Dreriodoc2b	YGITDEDMVRKTLRISVCDDEKFRHNEF---IGETRIPLKKLKPQTKNFSNCLEKQLPIDKTDDKS-----LEERGRIMISLKY-----SSQKSGLVVGI
Xtropicalisdoc2b	YGITDEDMIRKTLRISVCDDEKFRHNEF---IGETRIPLKKLKPQTKNFSICLEKQLPIDKTEDKS-----LEERGRILISLKY-----SSQKSGLLVGI
Acarolinensisdoc2b	YGITDEDMIRKTLX-----
GgallusDOC2B	YGITDEDMIRKTLRISVCDDEKFRHNEF---IGETRIPLKKLKPQTKNFSICLEKQLPIDKTEDKS-----LEERGRILISLKY-----SSQKQGLLVGI
TguttataDOC2Bvar1	YGITDEDMIRKTLRISVCDDEKFRHNEF---IGETRIPLKKLKPQTKNFSICLEKQLPIDKTEDKS-----LEERGRILISLKY-----SSQKQGLVQGI
TguttataDOC2Bvar2	YGITDEDMIRKTLRISVCDDEKFRHNEF---IGETRIPLKKLKPQTKNFNICLEKQLPIDKTEDKS-----LEERGRILISLKY-----SSQKQGLVQGI
OanatinusDoc2b	YGITDEDMIRKTLRISVCDDEKFRHNEF---IGETKIPQKKVKPNQTKTFSICLESIPPX-----RILISLKY-----SSQKQGLLVGI
MdomesticaDoc2b	YGITDEDMIRKTLRISVCDDEKFRHNEF---IGETRIPLKKLKPQTKTFSICLEKQLPVDKTEDKS-----LEERGRILISLKY-----SSQKQGLVVGI
MmusculusDoc2b	YGITDEDMVRKTLRISVCDDEKFRHNEF---IGETRVLPLKKLPNHTKTFISICLEKQLPVDKAEDKS-----LEERGRILISLKY-----SSQKQGLLVGI
HsapiensDOC2B	YGITDEDMIRKTLRISVCDDEKFRHNEF---IGETRVLPLKKLPNHTKTFISICLEKQLPVDKTEDKS-----LEERGRILISLKY-----SSQKQGLLVGI
Trubripesdoc2d	HGITAADMTTKTLRLCVCMDMRLGRNEF---IGEVVALKKLKEGENKRYNMGLERIAQNKETNNQTVPEGALVA-----EEERGRILVSLCY-----NTEKSCLLVGI
Tnigroviridisdoc2d	HGITAADMTTKTLRLCVCMDMRLGRNEF---IGEVVALKKLKEGENKRYNMGLERIAQNKETNNQTVQGAVALVA-----EEERGRILVSLCY-----NTEKSCLLVGI
Gaculeatusdoc2d	HGITAADMTTKTLRLCVCMDMRLGRNEF---IGEVVALKKLKEGENKRYNMGLERIAQNKDANNPTVEQGAVVA-----EEERGRILVSLCY-----NTEKGCLLVGI
Olatipesdoc2d	HGITGADMTTKTLRLCVCMDMRLGRNEF---IGEVVALKKLKEGENKRYNMGLERIAQNKETNNQVLVDQGALVG-----EEERGRILVSLCY-----NTEKSCLLVGI
Dreriodoc2dvar1	HGITAADMTTKTLRLCVCMDMRLGRNEF---IGEVVALKKLKEGESKKYNMGLERIAQNFREGNSQAMPDPAAPVA-----EEERGRILVSLLY-----NTEKNTLVVGI
Dreriodoc2dvar2	● -----MTTKTLRLCVCMDMRLGRNEF---IGEVVALKKLKEGESKKYNMGLERIAQNFREGNSQAMPDPAAPVA-----EEERGRILVSLLY-----NTEKNTLVVGI
MmusculusDoc2gvar1	HGFTTCQDAGRKTLRLCVCEDSRLRRRRRGPPLGELRVPLRLKLVNPNARSFDICLEKRLIKRPKSLDTARGMSLYEIEEEMAEVFG-----EEERGRILVSLCY-----SSERGGLLVGV
MmusculusDoc2gvar2	● -----MRRWGASDWTGSEHSLHLOEEMAEVFG-----EEERGRILVSLCY-----SSERGGLLVGV
Hsapiensdoc2g1	HGFTRQDAECKTLRLCVCEDPWYSDSGRHLPWGSCGCP-----
Hsapiensdoc2g2	-----MVQRQWQAPSLGELRVPLRLKLVNPNARSFDICLEKRLIAKRPKSLDTACGMSLYIEEVETEVAW-----EECGHVLLSLCY-----SSQQGGLLVGV

Trubripesdoc2a
 Trubripesdoc2b
 Trubripesdoc2c
 Trubripesdoc2d
 Trubripesdoc2e
 Trubripesdoc2f
 Trubripesdoc2g
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 Trubripesdoc2j
 Trubripesdoc2k
 Trubripesdoc2l
 Trubripesdoc2m
 Trubripesdoc2n
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 Trubripesdoc2p
 Trubripesdoc2q
 Trubripesdoc2r
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