```
                1        10        20        30        40        50        60        70        80        90
Consensus       MESTVGPACPPGRTVTKRPWALAEDTPRGPDSPPKRPRPNSLPLTTTFRPLPPPPQTTSAVDPSSHSPVNPPRDQHATDTADEKPRAASP
Identity        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
1. 17v2|UL12   MESTVGPACPPGRTVTKRPWALAEDTPRGPDSPPKRPRPNSLPLTTTFRPLPPPPQTTSAVDPSSHSPVNPPRDQHATDTADEKPRAASP
2. F|UL12       MESTVGPACPPGRTVTKRPWALAEDTPRGPDSPPKRPRPNSLPLTTTFRPLPPPPQTTSAVDPSSHSPDNPPRDQHATDTADEKPRAASP
3. H129|UL...   MESTVGPACPPGRTVPKRPWALAEDTPRGPDSPPKRPRPNSLPLTTTFRPLPPPPQTTSAVDPSSHSPVNPPRDQHATDTADEKPRAASP
4. KOS|UL12     MESTGGPACPPGRTVTKRSWALAEDTPRGPDSPPKRPRPNSLPLTTTFRPLPPPPQTTSAVDPSSHSPVNPPRDQHATDTADEKPRAASP
5. McKr|UL12    MESTVGPACPPGRTVTKRPWALAEDTPRGPDSPPKRPRPNSLPLTTTFRPLPPPPQTTSAVDPSSHSPVNPPRDQHATDTADEKPRAASP
6. HF10|UL...   MESTGGPACPPGRTVTKRSWALAEDTPRGPDSPPKRPRPNSLPLTTTFRPLPPPPQTTSAVDPSSHSPVNPPRDQHATDTADEKPRAASP
7. CR38|UL...   MESTGGPACPPGRTVTKRSWALAEDTPRGPDSPPKRPRPNSLPLTTTFRPLPPPPQTTSAVDPSSHSPVNPPRDQHATDTADEKPRAASP
8. E03|UL12     MESTVGPACPPGRTVTKRPWALAEDTPRGPDSPPKRPRPNSLPLTTTFRPLPPPPQTTSAVDPSSHSPDNPPRDQHATDTADEKPRAASP
9. E06|UL12     MESTVGPACPPGRTVTKRPWALAEDTPRGPDSPPKRPRPNSLPLTTTFRPLPPPPQTTSAVDPSSHSPVNPPRDQHATDTADEKPRASSP
10. E07|UL12    MESTVGPACPPGRTVTKRPWALAEDTPRGPDSPPKRPRPNSLPLTTTFRPLPPPPQTTSAVDPSSHSPVNPPRDQHATDTADEKPRASSP
11. E08|UL12    MESTVGPACPPGRTVTKRPWALAEDTPRGPDSPPKRPRPNSLPLTTTFRPLPPPPQTTSAVDPSSHSPVNPPRDQHATDTADEKPRASSP
12. E10|UL12    MESTVGPACPPGRTVTKRPWALAEDTPRGPDSPPKRPRPNSLPLTTTFRPLPPPPQTTSAVDPSSHSPVNPPRDQHATDTADEKPRASSP
13. E11|UL12    MESTVGPACPPGRTVTKRPWALAEDTPRGPDSPPKRPRPNSLPLTTTFRPLPPPPQTTSAVDPSSHSPVNPPRDQHATDTADEKPRASSP
14. E12|UL12    MESTGGPACPPGRTVTKRSWALAEDTPRGPDSPPKRPRPNSLPLATTFRPLPPPPQTTSAVDPSSHSPVNPPRDQHATDTADEKPRAASP
15. E13|UL12    MESTGGPACPPGRTVTKRSWALAEDTPRGPDSPPKRPRPNSLPLTTTFRPLPPPPQTTSAVDPSSHSPDNPPRDQHATDTADEKPRAASP
16. E14|UL12    MESTGGPACPPGRTVTKRSWALAEDTPRGPDSPPKRPRPNSLPLTTTFRPLPPPPQTTSAVDPSSHSPVNPPRDQHATDTADEKPRAASP
17. E15|UL12    MESTVGPACPPGRTVTKRPWALAEDTPRGPDSPPKRPRPNSLPLTTTFRPLPPPPQTTSAVDPSSHSPVNPPRDQHATDTADEKPRASSP
18. E19|UL12    MESTGGPACPPGRTVTKRPWALAEDTPRGPDSPPKRPRPNSLPLTTTFRPLPPPPQTTSAVDPSSHSPVNPPRDQHATDTADEKPRAASP
19. E22|UL12    MESTVGPACPPGRTVTKRPWALAEDTPRGPDSPPKRPRPNSLPLTTTFRPLPPPPQTTSAVDPSSHSPDNPPRDQHATDTADEKPRAASP
20. E23|UL...   MESTVGPACPPGRTVTKRPWALAEDTPRGPDSPPKRPRPNSLPLTTTFRPLPPPPQTTSAVDPSSHSPVNPPRDQHATDTADEKPRASSP
21. E25|UL...   MESTVGPACPPGRTVTKRPWALAEDTPRGPDSPPKRPRPNSLPLTTTFRPLPPPPQTTSAVDPSSHSPVNPPRDQHATDTADEKPRASSP
22. E35|UL...   MESTVGPACPPGRTVTKRPWALAEDTPRGPDSPPKRPRPNSLPLTTTFRPLPPPPQTTSAVDPSSHSPVNPPRDQHATDTADEKPRASSP
23. R11|UL...   MESTVGPACPPGRTVTKRPWALAEDTPRGPDSPPKRPRPNSLPLTTTFRPLPPPPQTTSAVDPSSHSPVNPPRDQHATDTADEKPRAASP
24. R62|UL...   MESTVGPACPPGRTVTKRPWALAEDTPRGPDSPPKRPRPNSLPLTTTFRPLPPPPQTTSAVDPSSHSPVNPPRDQHATDTADEKPRAASP
25. S23|UL12    MESTVGPACPPGRTVTKRPWALAEDTPRGPDSPPKRPRPNSLPLTTTFRPLPPPPQTTSAVDPSSHSPVNPPRDQHATDTADEKPRAASP
26. S25|UL12    MESTVGPACPPGRTVTKRPWALAEDTPRGPDSPPKRPRPNSLPLTTTFRPLPPPPQTTSAVDPSSHSPVNPPRDQHATDTADEKPRAASP

                100       110       120       130       140       150       160       170       180
Consensus       ALSDASGPPTPDIPLSPGGTHARDPDADPDSPDLDSMWSASVIPNALPSHILAETFERHLRGLLRGVRAPLAIGPLWARLDYLCSLAVVL
Identity        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
1. 17v2|UL12   ALSDASGPPTPDIPLSPGGTHARDPDADPDSPDLDSMWSASVIPNALPSHILAETFERHLRGLLRGVRAPLAIGPLWARLDYLCSLAVVL
2. F|UL12       ALSDASGPPTPDIPLSPGGTHARDPDADPDSPDLDSMWSASVIPNALPSHILAETFERHLRGLLRGVRAPLAIGPLWARLDYLCSLAVVL
3. H129|UL...   ALSDASGPPTPDIPLSPGGTHARDPDADPDSPDLDSMWSASVIPNALPSHILAETFERHLRGLLRGVRAPLAIGPLWARLDYLCSLAVVL
4. KOS|UL12     ALSDASGPPTPDIPLSPGGTHARDPDADPDSPDLDSMWSASVIPNALPSHILAETFERHLRGLLRGVRAPLAIGPLWARLDYLCSLAVVL
5. McKr|UL12    ALSDASGPPTPDIPLSPGGTHARDPDADPDSPDLDSMWSASVIPNALPSHILAETFERHLRGLLRGVRAPLAIGPLWARLDYLCSLAVVL
6. HF10|UL...   ALSDASGPPTPDIPLSPGGTHARDPDADPDSPDLDSMWSASVIPNALPSHILAETFERHLRGLLRGVRAPLAIGPLWARLDYLCSLAVVL
7. CR38|UL...   ALSDASGPPTPDIPLSPGGTHARDPDADPDSPDLDSMWSASVIPNALPSHILAETFERHLRGLLRGVRAPLAIGPLWARLDYLCSLAVVL
8. E03|UL12     ALSDASGPPTPDIPLSPGGTHARDPDADPDSPDLDSMWSASVIPNALPSHILAETFERHLRGLLRGVRAPLAIGPLWARLDYLCSLAVVL
9. E06|UL12     ALSDASGPPTPDIPLSPGGTHARDPDADPDSPDLDFMWSASVIPNALPSHILAETFERHLRGLLRGVRAPLAIGPLWARLDYLCSLAVVL
10. E07|UL12    ALSDASGPPTPDIPLSPGGTHARDPDADPDSPDLDFMWSASVIPNALPSHILAETFERHLRGLLRGVRAPLAIGPLWARLDYLCSLAVVL
11. E08|UL12    ALSDASGPPTPDIPLSPGGTHARDPDADPDSPDLDFMWSASVIPNALPSHILAETFERHLRGLLRGVRAPLAIGPLWARLDYLCSLAVVL
12. E10|UL12    ALSDASGPPTPDIPLSPGGTHARDPDADPDSPDLDFMWSASVIPNALPSHILAETFERHLRGLLRGVRAPLAIGPLWARLDYLCSLAVVL
13. E11|UL12    ALSDASGPPTPDIPLSPGGTHARDPDADPDSPDLDFMWSASVIPNALPSHILAETFERHLRGLLRGVRAPLAIGPLWARLDYLCSLAVVL
14. E12|UL12    ALSDASGPPTPDIPLSPGGTHARDPDADPDSPDLDSMWSASVIPNALPSHILAETFERHLRGLLRGVRAPLAIGPLWARLDYLCSLAVVL
15. E13|UL12    ALSDASGPPTPDIPLSPGGTHARDPDADPDSPDLDSMWSASVIPNALPSHILAETFERHLRGLLRGVRAPLAIGPLWARLDYLCSLAVVL
16. E14|UL12    ALSDASGPPTPDIPLSPGGTHARDPDADPDSPDLDSMWSASVIPNALPSHILAETFERHLRGLLRGVRAPLAIGPLWARLDYLCSLAVVL
17. E15|UL12    ALSDASGPPTPDIPLSPGGTHARDPDADPDSPDLDFMWSASVIPNALPSHILAETFERHLRGLLRGVRAPLAIGPLWARLDYLCSLAVVL
18. E19|UL12    ALSDASGPPTPDIPLSPGGTHARDPDADPDSPDLDSMWSASVIPNALPSHILAETFERHLRGLLRGVRAPLAIGPLWARLDYLCSLAAVL
19. E22|UL12    ALSDASGPPTPDIPLSPGGTHARDPDADPDSPDLDSMWSASVIPNALPSHILAETFERHLRGLLRGVRAPLAIGPLWARLDYLCSLAVVL
20. E23|UL...   ALSDASGPPTPDIPLSPGGTHARDPDADPDSPDLDFMWSASVIPNALPSHILAETFERHLRGLLRGVRAPLAIGPLWARLDYLCSLAVVL
21. E25|UL...   ALSDASGPPTPDIPLSPGGTHARDPDADPDSPDLDFMWSASVIPNALPSHILAETFERHLRGLLRGVRAPLAIGPLWARLDYLCSLAVVL
22. E35|UL...   ALSDASGPPTPDIPLSPGGTHARDPDADPDSPDLDFMWSASVIPNALPSHILAETFERHLRGLLRGVRAPLAIGPLWARLDYLCSLAVVL
23. R11|UL...   ALSDASGPPTPDIPLSPGGTHARDPDADPDSPDLDSMWSASVIPNALPSHILAETFERHLRGLLRGVRAPLAIGPLWARLDYLCSLAVVL
24. R62|UL...   ALSDASGPPTPDIPLSPGGTHARDPDADPDSPDLDSMWSASVIPNALPSHILAETFERHLRGLLRGVRAPLAIGPLWARLDYLCSLAVVL
25. S23|UL12    ALSDASGPPTPDIPLSPGGTHARDPDADPDSPDLDSMWSASVIPNALPSHILAETFERHLRGLLRGVRAPLAIGPLWARLDYLCSLAVVL
26. S25|UL12    ALSDASGPPTPDIPLSPGGTHARDPDADPDSPDLDSMWSASVIPNALPSHILAETFERHLRGLLRGVRAPLAIGPLWARLDYLCSLAVVL

                190       200       210       220       230       240       250       260       270
Consensus       EEAGMVDRGLGRHLWRLTRRGPPAAADAVAPRPLMGFYEAATQNQADCQLWALLRRGLTTASTLRWGPQGPCFSPQWLKHNASLRPDVQS
Identity        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
1. 17v2|UL12   EEAGMVDRGLGRHLWRLTRRGPPAAADAVAPRPLMGFYEAATQNQADCQLWALLRRGLTTASTLRWGPQGPCFSPQWLKHNASLRPDVQS
2. F|UL12       EEAGMVDRGLGRHLWRLTRRAPPAAADAVAPRPLMGFYEAATQNQADCQLWALLRRGLTTASTLRWGPQGPCFSPQWLKHNASLRPDVQS
3. H129|UL...   EEAGMVDRGLGRHLWRLTRRGPPAAADAVAPRPLMGFYEAATQNQADCQLWALLRRGLTTASTLRWGPQGPCFSPQWLKHNASLRPDVQS
4. KOS|UL12     EEAGMVDRGLGRHLWRLTRRGPPAAADAVAPRPLMGFYEAATQNQADCQLWALLRRGLTTASTLRWGPQGPCFSPQWLKHNASLRPDVQS
5. McKr|UL12    EEAGMVDRGLGRHLWRLTRRGPPAAADAVAPRPLMGFYEAATQNQADCQLWALLRRGLTTASTLRWGPQGPCFSPQWLKHNASLRPDVQS
6. HF10|UL...   EEAGMVDRGLGRHLWRLTRRAPPAAADAVAPRPLMGFYEAATQNQADCQLWALLRRGLTTASTLRWGPQGPCFSPQWLKHNASLRPDVQS
7. CR38|UL...   EEAGMVDRGLGRHLWRLTRRGPPAAADAVAPRPLMGFYEAATQNQADCQLWALLRRGLTTASTLRWGPQGPCFSPQWLKHNASLRPDVQS
8. E03|UL12     EEAGMVDRGLGRHLWRLTRRAPPAAADAVAPRPLMGFYEAATQNQADCQLWALLRRGLTTASTLRWGPQGPCFSPQWLKHNASLRPDVQS
9. E06|UL12     EEAGMVDRGLGRHLWRLTRRGPPAAADAVAPRPLMGFYEAATQNQADCQLWALLRRGLTTASTLRWGPQGPCFSPQWLKHNASLRPDVQS
10. E07|UL12    EEAGMVDRGLGRHLWRLTRRGPPAAADAVAPRPLMGFYEAATQNQADCQLWALLRRGLTTASTLRWGPQGPCFSPQWLKHNASLRPDVQS
11. E08|UL12    EEAGMVDRGLGRHLWRLTRRGPPAAADAVAPRPLMGFYEAATQNQADCQLWALLRRGLTTASTLRWGPQGPCFSPQWLKHNASLRPDVQS
12. E10|UL12    EEAGMVDRGLGRHLWRLTRRGPPAAADAVAPRPLMGFYEAATQNQADCQLWALLRRGLTTASTLRWGPQGPCFSPQWLKHNASLRPDVQS
13. E11|UL12    EEAGMVDRGLGRHLWRLTRRGPPAAADAVAPRPLMGFYEAATQNQADCQLWALLRRGLTTASTLRWGPQGPCFSPQWLKHNASLRPDVQS
14. E12|UL12    EEAGMVDRGLGRHLWRLTRRGPPAAADAVAPRPLMGFYEAATQNQADCQLWALLRRGLTTASTLRWGPQGPCFSPQWLKHNASLRPDVQS
15. E13|UL12    EEAGMVDRGLGRHLWRLTRRGPPAAADAVAPRPLMGFYEAATQNQADCQLWALLRRGLTTASTLRWGPQGPCFSPQWLKHNASLRPDVQS
16. E14|UL12    EEAGMVDRGLGRHLWRLTRRGPPAAADAVAPRPLMGFYEAATQNQADCQLWALLRRGLTTASTLRWGPQGPCFSPQWLKHNASLRPDVQS
17. E15|UL12    EEAGMVDRGLGRHLWRLTRRGPPAAADAVAPRPLMGFYEAATQNQADCQLWALLRRGLTTASTLRWGPQGPCFSPQWLKHNASLRPDVQS
18. E19|UL12    EEAGMVDRGLGRHLWRLTRRGPPAAADAVAPRPLMGFYEAATQNQADCQLWALLRRGLTTASTLRWGPQGPCFSPQWLKHNASLRPDVQS
19. E22|UL12    EEAGMVDRGLGRHLWRLTRRGPPAAADAVAPRPLMGFYEAATQNQADCQLWALLRRGLTTASTLRWGPQGPCFSPQWLKHNASLRPDVQS
20. E23|UL...   EEAGMVDRGLGRHLWRLTRRGPPAAADAVAPRPLMGFYEAATQNQADCQLWALLRRGLTTASTLRWGPQGPCFSPQWLKHNASLRPDVQS
21. E25|UL...   EEAGMVDRGLGRHLWRLTRRGPPAAADAVAPRPLMGFYEAATQNQADCQLWALLRRGLTTASTLRWGPQGPCFSPQWLKHNASLRPDVQS
22. E35|UL...   EEAGMVDRGLGRHLWRLTRRGPPAAADAVAPRPLMGFYEAATQNQADCQLWALLRRGLTTASTLRWGPQGPCFSPQWLKHNASLRPDVQS
23. R11|UL...   EEAGMVDRGLGRHLWRLTRRGPPAAADAVAPRPLMGFYEAATQNQADCQLWALLRRGLTTASTLRWGPQGPCFSPQWLKHNASLRPDVQS
24. R62|UL...   EEAGMVDRGLGRHLWRLTRRGPPAAADAVAPRPLMGFYEAATQNQADCQLWALLRRGLTTASTLRWGPQGPCFSPQWLKHNASLRPDVQS
25. S23|UL12    EEAGMVDRGLGRHLWRLTRRGPPAAADAVAPRPLMGFYEAATQNQADCQLWALLRRGLTTASTLRWGPQGPCFSPQWLKHNASLRPDVQS
26. S25|UL12    EEAGMVDRGLGRHLWRLTRRGPPAAADAVAPRPLMGFYEAATQNQADCQLWALLRRGLTTASTLRWGPQGPCFSPQWLKHNASLRPDVQS

                280       290       300       310       320       330       340       350       360
Consensus       SAVMFGRVNEPTARSLLFRYCVGRADDGGEAGADTRRFIFHEPSDLAEENVHTCGVLMDGHTGMVGASLDILVCPRDIHGYLAPVPKTPL
Identity        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
1. 17v2|UL12   SAVMFGRVNEPTARSLLFRYCVGRADDGGEAGADTRRFIFHEPSDLAEENVHTCGVLMDGHTGMVGASLDILVCPRDIHGYLAPVPKTPL
2. F|UL12       SAVMFGRVNEPTARSLLFRYCVGRADDGGEAGADTRRFIFHEPSDLAEENVHTCGVLMDGHTGMVGASLDILVCPRDIHGYLAPVPKTPL
3. H129|UL...   SAVMFGRVNEPTARSLLFRYCVGRADDGGEAGADTRRFIFHEPSDLAEENVHTCGVLMDGHTGMVGASLDILVCPRDIHGYLAPVPKTPL
4. KOS|UL12     SAVMFGRVNEPTARSLLFRYCVGRADDGGEAGADTRRFIFHEPGDLAEENVHTCGVLMDGHTGMVGASLDILVCPRDIHGYLAPVPKTPL
5. McKr|UL12    SAVMFGRVNEPTARSLLFRYCVGRADDGGEAGADTRRFIFHEPSDLTEENVHTCGVLMDGHTGMVGASLDILVCPRDIHGYLAPVPKTPL
6. HF10|UL...   SAVMFGRVNEPTARSLLFRYCVGRADDGGEAGADTRRFIFHEPSDLAEENVHTCGVLMDGHTGMVGASLDILVCPRDIHGYLAPVPKTPL
7. CR38|UL...   SAVMFGRVNEPTARSLLFRYCVGRADDGGEAGADTRRFIFHEPGDLAEENVHTCGVLMDGHTGMVGASLDILVCPRDIHGYLAPVPKTPL
8. E03|UL12     SAVMFGRVNEPTARSLLFRYCVGRADDGGEAGADTRRFIFHEPSDLAEENVHTCGVLMDGHTGMVGASLDILVCPRDIHGYLAPVPKTPL
9. E06|UL12     SAVMFGRVNEPTARSLLFRYCVGRADDGGEAGADTRRFIFHEPSDLAEENVHTCGVLMDGHTGMVGASLDILVCPRDIHGYLAPVPKTPL
10. E07|UL12    SAVMFGRVNEPTARSLLFRYCVGRADDGGEAGADTRRFIFHEPSDLAEENVHTCGVLMDGHTGMVGASLDILVCPRDIHGYLAPVPKTPL
11. E08|UL12    SAVMFGRVNEPTARSLLFRYCVGRADDGGEAGADTRRFIFHEPSDLAEENVHTCGVLMDGHTGMVGASLDILVCPRDIHGYLAPVPKTPL
12. E10|UL12    SAVMFGRVNEPTARSLLFRYCVGRADDGGEAGADTRRFIFHEPSDLAEENVHTCGVLMDGHTGMVGASLDILVCPRDIHGYLAPVPKTPL
13. E11|UL12    SAVMFGRVNEPTARSLLFRYCVGRADDGGEAGADTRRFIFHEPSDLAEENVHTCGVLMDGHTGMVGASLDILVCPRDIHGYLAPVPKTPL
14. E12|UL12    SAVMFGRVNEPTARSLLFRYCVGRADDGGEAGADTRRFIFHEPSDLAEENVHTCGVLMDGHTGMVGASLDILVCPRDIHGYLAPVPKTPL
15. E13|UL12    SAVMFGRVNEPTARSLLFRYCVGRADDGGEAGADTRRFIFHEPSDLAEENVHTCGVLMDGHTGMVGASLDILVCPRDIHGYLAPVPKTPL
16. E14|UL12    SAVMFGRVNEPTARSLLFRYCVGRADDGGEAGADTRRFIFHEPSDLAEENVHTCGVLMDGHTGMVGASLDILVCPRDIHGYLAPVPKTPL
17. E15|UL12    SAVMFGRVNEPTARSLLFRYCVGRADDGGEAGADTRRFIFHEPSDLAEENVHTCGVLMDGHTGMVGASLDILVCPRDIHGYLAPVPKTPL
18. E19|UL12    SAVMFGRVNEPTARSLLFRYCVGRADDGGEAGADTRRFIFHEPSDLAEENVHTCGVLMDGHTGMVGASLDILVCPRDIHGYLAPVPKTPL
19. E22|UL12    SAVMFGRVNEPTARSLLFRYCVGRADDGGEAGADTRRFIFHEPSDLAEENVHTCGVLMDGHTGMVGASLDILVCPRDIHGYLAPVPKTPL
20. E23|UL...   SAVMFGRVNEPTARSLLFRYCVGRADDGGEAGADTRRFIFHEPSDLAEENVHTCGVLMDGHTGMVGASLDILVCPRDIHGYLAPVPKTPL
21. E25|UL...   SAVMFGRVNEPTARSLLFRYCVGRADDGGEAGADTRRFIFHEPSDLAEENVHTCGVLMDGHTGMVGASLDILVCPRDIHGYLAPVPKTPL
22. E35|UL...   SAVMFGRVNEPTARSLLFRYCVGRADDGGEAGADTRRFIFHEPSDLAEENVHTCGVLMDGHTGMVGASLDILVCPRDIHGYLAPVPKTPL
23. R11|UL...   SAVMFGRVNEPTARSLLFRYCVGRADDGGEAGADTRRFIFHEPSDLAEENVHTCGVLMDGHTGMVGASLDILVCPRDIHGYLAPVPKTPL
24. R62|UL...   SAVMFGRVNEPTARSLLFRYCVGRADDGGEAGADTRRFIFHEPSDLAEENVHTCGVLMDGHTGMVGASLDILVCPRDIHGYLAPVPKTPL
25. S23|UL12    SAVMFGRVNEPTARSLLFRYCVGRADDGGEAGADTRRFIFHEPSDLAEENVHTCGVLMDGHTGMVGASLDILVCPRDIHGYLAPVPKTPL
26. S25|UL12    SAVMFGRVNEPTARSLLFRYCVGRADDGGEAGADTRRFIFHEPSDLAEENVHTCGVLMDGHTGMVGASLDILVCPRDIHGYLAPVPKTPL

                370       380       390       400       410       420       430       440       450
Consensus       AFYEVKCRAKYAFDPMDPSDPTASAYEDLMAHRSPEAFRAFIRSIPKPSVRYFAPGRVPGPEEALVTQDQAWSEAHASGEKRRCSAADRA
Identity        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
1. 17v2|UL12   AFYEVKCRAKYAFDPMDPSDPTASAYEDLMAHRSPEAFRAFIRSIPKPSVRYFAPGRVPGPEEALVTQDQAWSEAHASGEKRRCSAADRA
2. F|UL12       AFYEVKCRAKYAFDPMDPSDPTASAYEDLMAHRSPEAFRAFIRSIPKPSVRYFAPGRVPGPEEALVTQDQAWSEAHASGEKRRCSAADRA
3. H129|UL...   AFYEVKCRAKYAFDPMDPSDPTASAYEDLMAHRSPEAFRAFIRSIPKPSVRYFAPGRVPGPEEALVTQDQAWSEAHASGEKRRCSAADRA
4. KOS|UL12     AFYEVKCRAKYAFDPMDPSDPTASAYEDLMAHRSPEAFRAFIRSIPKPSVRYFAPGRVPGPEEALVTQDQAWSEAHASGEKRRCSAADRA
5. McKr|UL12    AFYEVKCRAKYAFDPMDPSDPTASAYEDLMTHRSPEAFRAFIRSIPKPSVRYFAPGRVPGPEEALVTQDQAWSEAHASGEKRRCSAADRA
6. HF10|UL...   AFYEVKCRAKYAFDPMDPSDPTASAYEDLMAHRSPEAFRAFIRSIPKPSVRYFAPGRVPGPEEALVTQDQAWSEAHASGEKRRCSAADRA
7. CR38|UL...   AFYEVKCRAKYAFDPMDPSDPTASAYEDLMAHRSPEAFRAFIRSIPKPSVRYFAPGRVPGPEEALVTQDQAWSEAHASGEKRRCSAADRA
8. E03|UL12     AFYEVKCRAKYAFDPMDPSDPTASAYEDLMAHRSPEAFRAFIRSIPKPSVRYFAPGRVPGPEEALVTQDQAWSEAHASGEKRRCSAADRA
9. E06|UL12     AFYEVKCRAKYAFDPMDPSDPTASAYEDLMAHRSPEAFRAFIRSIPKPSVRYFAPGRVPGPEEALVTQDQAWSEAHASGEKRRCSAADRA
10. E07|UL12    AFYEVKCRAKYAFDPMDPSDPTASAYEDLMAHRSPEAFRAFIRSIPKPSVRYFAPGRVPGPEEALVTQDQAWSEAHASGEKRRCSAADRA
11. E08|UL12    AFYEVKCRAKYAFDPMDPSDPTASAYEDLMAHRSPEAFRAFIRSIPKPSVRYFAPGRVPGPEEALVTQDQAWSEAHASGEKRRCSAADRA
12. E10|UL12    AFYEVKCRAKYAFDPMDPSDPTASAYEDLMAHRSPEAFRAFIRSIPKPSVRYFAPGRVPGPEEALVTQDQAWSEAHASGEKRRCSAADRA
13. E11|UL12    AFYEVKCRAKYAFDPMDPSDPTASAYEDLMAHRSPEAFRAFIRSIPKPSVRYFAPGRVPGPEEALVTQDQAWSEAHASGEKRRCSAADRA
14. E12|UL12    AFYEVKCRAKYAFDPMDPSDPTASAYEDLMAHRSPEAFRAFIRSIPKPSVRYFAPGRVPGPEEALVTQDQAWSEAHASGEKRRCSAADRA
15. E13|UL12    AFYEVKCRAKYAFDPMDPSDPTASAYEDLMAHRSPEAFRAFIRSIPKPSVRYFAPGRVPGPEEALVTQDQAWSEAHASGEKRRCSAADRA
16. E14|UL12    AFYEVKCRAKYAFDPMDPSDPTASAYEDLMAHRSPEAFRAFIRSIPKPSVRYFAPGRVPGPEEALVTQDQAWSEAHASGEKRRCSAADRA
17. E15|UL12    AFYEVKCRAKYAFDPMDPSDPTASAYEDLMAHRSPEAFRAFIRSIPKPSVRYFAPGRVPGPEEALVTQDQAWSEAHASGEKRRCSAADRA
18. E19|UL12    AFYEVKCRAKYAFDPMDPSDPTASAYEDLMAHRSPEAFRAFIRSIPKPSVRYFAPGRVPGPEEALVTQDQAWSEAHASGEKRRCSAADRA
19. E22|UL12    AFYEVKCRAKYAFDPMDPSDPTASAYEDLMAHRSPEAFRAFIRSIPKPSVRYFAPGRVPGPEEALVTQDQAWSEAHASGEKRRCSAADRA
20. E23|UL...   AFYEVKCRAKYAFDPMDPSDPTASAYEDLMAHRSPEAFRAFIRSIPKPSVRYFAPGRVPGPEEALVTQDQAWSEAHASGEKRRCSAADRA
21. E25|UL...   AFYEVKCRAKYAFDPMDPSDPTASAYEDLMAHRSPEAFRAFIRSIPKPSVRYFAPGRVPGPEEALVTQDQAWSEAHASGEKRRCSAADRA
22. E35|UL...   AFYEVKCRAKYAFDPMDPSDPTASAYEDLMAHRSPEAFRAFIRSIPKPSVRYFAPGRVPGPEEALVTQDQAWSEAHASGEKRRCSAADRA
23. R11|UL...   AFYEVKCRAKYAFDPMDPSDPTASAYEDLMAHRSPEAFRAFIRSIPKPSVRYFAPGRVPGPEEALVTQDQAWSEAHASGEKRRCSAADRA
24. R62|UL...   AFYEVKCRAKYAFDPMDPSDPTASAYEDLMVHRSPEAFRAFIRSIPKPSVRYFAPGRVPGPEEALVTQDQAWSEAHASGEKRRCSAADRA
25. S23|UL12    AFYEVKCRAKYAFDPMDPSDPTASAYEDLMVHRSPEAFRAFIRSIPKPSVRYFAPGRVPGPEEALVTQDQAWSEAHASGEKRRCSAADRA
26. S25|UL12    AFYEVKCRAKYAFDPMDPSDPTASAYEDLMVHRSPEAFRAFIRSIPKPSVRYFAPGRVPGPEEALVTQDQAWSEAHASGEKRRCSAADRA

                460       470       480       490       500       510       520       530       540
Consensus       LVELNSGVVSEVLLFGAPDLGRHTISPVSWSSGDLVRREPVFANPRHPNFKQILVQGYVLDSHFPDCPPHPHLVTFIGRHRTSAEEGVTF
Identity        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
1. 17v2|UL12   LVELNSGVVSEVLLFGAPDLGRHTISPVSWSSGDLVRREPVFANPRHPNFKQILVQGYVLDSHFPDCPPHPHLVTFIGRHRTSAEEGVTF
2. F|UL12       LVELNSGVVSEVLLFGAPDLGRHTISPVSWSSGDLVRREPVFANPRHPNFKQILVQGYVLDSHFPDCPPHPHLVTFIGRHRTSAEEGVTF
3. H129|UL...   LVELNSGVVSEVLLFGAPDLGRHTISPVSWSSGDLVRREPVFANPRHPNFKQILVQGYVLDSHFPDCPPHPHLVTFIGRHRTSAEEGVTF
4. KOS|UL12     LVELNSGVVSEVLLFGAPDLGRHTISPVSWSSGDLVRREPVFANPRHPNFKQILVQGYVLDSHFPDCPPHPHLVTFIGRHRTSAEEGVTF
5. McKr|UL12    LVELNSGVVSEVLLFGAPDLGRHTISPVSWSSGDLVRREPVFANPRHPNFKQILVQGYVLDSHFPDCPPHPHLVTFIGRHRTSAEEGVTF
6. HF10|UL...   LVELNSGVVSEVLLFGAPDLGRHTISPVSWSSGDLVRREPVFANPRHPNFKQILVQGYVLDSHFPDCPPHPHLVTFIGRHRTSAEEGVTF
7. CR38|UL...   LVELNSGVVSEVLLFGAPDLGRHTISPVSWSSGDLVRREPVFANPRHPNFKQILVQGYVLDSHFPDCPPHPHLVTFIGRHRTSAEEGVTF
8. E03|UL12     LVELNSGVVSEVLLFGAPDLGRHTISPVSWSSGDLVRREPVFANPRHPNFKQILVQGYVLDSHFPDCPPHPHLVTFIGRHRTSAEEGVTF
9. E06|UL12     LVELNSGVVSDVLLFGAPDLGRHTISPVSWSSGDLVRREPVFANPRHPNFKQILVQGYVLDSHFPDCPPHPHLVTFIGRHRTSAEEGVTF
10. E07|UL12    LVELNSGVVSDVLLFGAPDLGRHTISPVSWSSGDLVRREPVFANPRHPNFKQILVQGYVLDSHFPDCPPHPHLVTFIGRHRTSAEEGVTF
11. E08|UL12    LVELNSGVVSDVLLFGAPDLGRHTISPVSWSSGDLVRREPVFANPRHPNFKQILVQGYVLDSHFPDCPPHPHLVTFIGRHRTSAEEGVTF
12. E10|UL12    LVELNSGVVSDVLLFGAPDLGRHTISPVSWSSGDLVRREPVFANPRHPNFKQILVQGYVLDSHFPDCPPHPHLVTFIGRHRTSAEEGVTF
13. E11|UL12    LVELNSGVVSDVLLFGAPDLGRHTISPVSWSSGDLVRREPVFANPRHPNFKQILVQGYVLDSHFPDCPPHPHLVTFIGRHRTSAEEGVTF
14. E12|UL12    LVELNSGVVSEVLLFGAPDLGRHTISPVSWSSGDLVRREPVFANPRHPNFKQILVQGYVLDSHFPDCPPHPHLVTFIGRHRTSAEEGVTF
15. E13|UL12    LVELNRGVVSEVLLFGAPDLGRHTISPVSWSSGDLVRREPVFANPRHPNFKQILVQGYVLDSHFPDCPPHPHLVTFIGRHRTSAEEGVTF
16. E14|UL12    LVELNSGVVSEVLLFGAPDLGRHTISPVSWSSGDLVRREPVFANPRHPNFKQILVQGYVLDSHFPDCPPHPHLVTFIGRHRTSAEEGVTF
17. E15|UL12    LVELNSGVVSDVLLFGAPDLGRHTISPVSWSSGDLVRREPVFANPRHPNFKQILVQGYVLDSHFPDCPPHPHLVTFIGRHRTSAEEGVTF
18. E19|UL12    LVELNSGVVSEVLLFGAPDLGRHTISPVSWSSGDLVRREPVFANPRHPNFKQILVQGYVLDSHFPDCPPHPHLVTFIGRHRTSAEEGVTF
19. E22|UL12    LVELNSGVVSDVLLFGAPDLGRHTISPVSWSSGDLVRREPVFANPRHPNFKQILVQGYVLDSHFPDCPPHPHLVTFIGRHRTSAEEGVTF
20. E23|UL...   LVELNSGVVSDVLLFGAPDLGRHTISPVSWSSGDLVRREPVFANPRHPNFKQILVQGYVLDSHFPDCPPHPHLVTFIGRHRTSAEEGVTF
21. E25|UL...   LVELNSGVVSDVLLFGAPDLGRHTISPVSWSSGDLVRREPVFANPRHPNFKQILVQGYVLDSHFPDCPPHPHLVTFIGRHRTSAEEGVTF
22. E35|UL...   LVELNSGVVSDVLLFGAPDLGRHTISPVSWSSGDLVRREPVFANPRHPNFKQILVQGYVLDSHFPDCPPHPHLVTFIGRHRTSAEEGVTF
23. R11|UL...   LVELNSGVVSEVLLFGAPDLGRHTISPVSWSSGDLVRREPVFANPRHPNFKQILVQGYVLDSHFPDCPPHPHLVTFIGRHRTSAEEGVTF
24. R62|UL...   LVELNSGVVSEVLLFGAPDLGRHTISPVSWSSGDLVRREPVFANPRHPNFKQILVQGYVLDSHFPDCPPHPHLVTFIGRHRTSAEEGVTF
25. S23|UL12    LVELNSGVVSEVLLFGAPDLGRHTISPVSWSSGDLVRREPVFANPRHPNFKQILVQGYVLDSHFPDCPPHPHLVTFIGRHRTSAEEGVTF
26. S25|UL12    LVELNSGVVSEVLLFGAPDLGRHTISPVSWSSGDLVRREPVFANPRHPNFKQILVQGYVLDSHFPDCPPHPHLVTFIGRHRTSAEEGVTF

                550       560       570       580       590       600       610       620   626
Consensus       RLEDGAGALGAAGPSKASILPNQAVPIALIITPVRIDPEIYKAIQRSSRLAFDDTLAELWASRSPGPGPAAAETTSSSPTTGRSSR
Identity        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
1. 17v2|UL12   RLEDGAGALGAAGPSKASILPNQAVPIALIITPVRIDPEIYKAIQRSSRLAFDDTLAELWASRSPGPGPAAAETTSSSPTTGRSSR
2. F|UL12       RLEDGAGALGAAGPSKASILPNQAVPIALIITPVRIDPEIYKAIQRSSRLAFDDTLAELWASRSPGPGPAAAETTSSSPTTGRSSR
3. H129|UL...   RLE
```