```
                1         10        20        30        40        50        60        70        80
Consensus       MAPGRVGLAVVLWSLLWLGAGVAGGSETASTGPTITAGAVTNASEAPTSGSPGSAASPEVTPTSTPNPNNVTQNKTTPTEPASPPT
Identity        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

1. 17v2|UL44   MAPGRVGLAVVLWSLLWLGAGVSGGSETASTGPTITAGAVTNASEAPTSGSPGSAASPEVTPTSTPNPNNVTQNKTTPTEPASPPT
2. F|UL44       MAPGRVGLAVVLWSLVWLGAGVSGGSETASTGPTITAGAVTNASEAPTSGSPGSAASPEVTPTSTPNPNNVTQNQTTPTEPASPPT
3. H129|UL44    MAPGRVGLAVVLWSLVWLGAGVSGGSETASTGPTITAGAVMNASEAPTSGSPGSAASPEVTPTSTPNPNNVTQNQTTPTEPASPPT
4. KOS|UL44     MAPGRVGLAVVLWSLLWLGAGVAGGSETASTGPTITAGAVTNASEAPTSGSPGSAASPEVTPTSTPNPNNVTQNKTTPTEPASPPT
5. McKr|UL44    MAPGRVGLAVVLWSLLWLGAGVSGGSETASTGPTITAGAVTNASEAPTSGSPGSAASPEVTPTSTPNPNNVTQNKTTPTEPASPPT
6. HF10|UL44    MAPGRVGLAVVLWSLLWLGAGVSGGSETASTGPTITAGAVTNASEAPTSGSPGSAASPEVTPTSTPNPNNVTQNKTIPTEPASPPT
7. CR38|UL44    MAPGRVGLAVVLWSLLWLGAGVAGGSETASTGPTITAGAVTNASEAPTSGSPGSAASPEVTPTSTPNPNNVTQNKTTPTEPASPPT
8. E03|UL44     MAPGRVGLAVVLWGLLWLGAGVSGGSETASTGPTITAGAVTNASEAPTSGSPGSAASPEVTPTSTPNPNNVTQNQTTPTEPASPPT
9. E06|UL44     MAPGRVGLAVVLWSLLWLGAGVAGGSETASTGPTITAGAVTNASEAPTTGSPGSAASPEVTPTSTPNPNNVTQNKTTPTEPAGPPT
10. E07|UL44    MAPGRVGLAVVLWSLLWLGAGVAGGSETASTGPTITAGAVTNASEAPTSGSPGSAASPEVTPTSTPNPNNVTQNKTTPTEPAGPPT
11. E08|UL44    MAPGRVGLAVVLWSLLWLGAGVAGGSETASTGPTITAGAVTNASEAPTSGSPGSAASPEVTPTSTPNPNNVTQNKTTPTEPASPPT
12. E10|UL44    MAPGRVGLAVVLWSLLWLGAGVAGGLETASTGPTITAGAVTNASEAPTTGSPGSAASPEVTPTSTPNPNNVTQNKTTPTEPAGPPT
13. E11|UL44    MAPGRVGLAVVLWSLLWLGAGVAGGLETASTGPTITAGAVTNASEAPTTGSPGSAASPEVTPTSTPNPNNVTQNKTTPTEPAGPPT
14. E12|UL44    MAPGRVGLAVVLWSLLWLGAGVSGGSETASTGPTITAGAVTNASEAPTSGSPGSAASPEVTPTSTPNPNNVTQNKTTPTDPASPPT
15. E13|UL44    MAPGRVGLAVVLWGLLWLGAGVSGGSETASTGPTITAGAVTNASEAPTSGSPGSAASPEVTPTSTPNPNNVTQNQTTPTEPASPPT
16. E14|UL44    MAPGRVGLAVVLWSLLWLGAGVAGGSETASTGPTITAGAVTNASEAPTSGSPGSAASPEVTPTSTPNPNNVTQNQTTPTEPASPPT
17. E15|UL44    MAPGRVGLAVVLWSLLWLGAGVAGGLETASTGPTITAGAVTNASEAPTTGSPGSAASPEVTPTSTPNPNNVTQNKTTPTEPAGPPT
18. E19|UL44    MAPGRVGLAVVLWSLLWLGAGVAGGSETASTGPTITAGAVTNASEAPTSGSPGSAASPEVTPTSTPNPNNVTQNKTTPTEPASPPT
19. E22|UL44    MAPGRVGLAVVLWSLLWLGAGVAGGSETASTGPTITAGAVTNASEAPTTGSPGSAASPEVTPTSTPNPNNVTQNKTTPTEPAGPPT
20. E23|UL44    MAPGRVGLAVVLWSLLWLGAGVAGGLETASTGPTITAGAVTNASEAPTTGSPGSAASPEVTPTSTPNPNNVTQNKTTPTEPAGPPT
21. E25|UL44    MAPGRVGLAVVLWSLLWLGAGVAGGSETASTGPTITAGAVTNASEAPTTGSPGSAASPEVTPTSTPNPNNVTQNKTTPTEPAGPPT
22. E35|UL44    MAPGRVGLAVVLWSLLWLGAGVAGGLETASTGPTITAGAVTNASEAPTTGSPGSAASPEVTPTSTPNPNNVTQNKTTPTEPAGPPT
23. R11|UL44    MAPGRVGLAVVLWSLLWLGAGVSGDSETASTGPTITAGAVTNASEAPTSGSPGSAASPEVTPTSTPNPNNVTQNKTIPTEPASPPT
24. R62|UL44    MAPGRVGLAVVLWSLLWLGAGVSGGSETASTGPTITAGAVTNASEAPTSGSPGSAASPEVTPTSTPNPNNVTQNKTIPTEPASPPT
25. S23|UL44    MAPGRVGLAVVLWSLLWLGAGVSGGSETASTGPTITAGAVTNASEAPTSGSPGSAASPEVTPTSTPNPNNVTQNKTIPTEPASPPT
26. S25|UL44    MAPGRVGLAVVLWSLLWLGAGVSGGSETASTGPTITAGAVTNASEAPTSGSPGSAASPEVTPTSTPNPNNVTQNKTIPTEPASPPT

                90        100       110       120       130       140       150       160       170
Consensus       TPKPTSTPKSPPTSTPDPKPKNNTTPAKSXRPTKPPGPVWCDRRDPLARYGSRVQIRCRFRNSTRMEFRLQIWRYSMGPSPPIAPA
Identity        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

1. 17v2|UL44   TPKPTSTPKSPPTSTPDPKPKNNTTPAKSGRPTKPPGPVWCDRRDPLARYGSRVQIRCRFRNSTRMEFRLQIWRYSMGPSPPIAPA
2. F|UL44       TPKPTSTPKSPPTSTPDPKPKNNTTPAKSDRPTKPPGPVWCDRRDLLARYGSRVQIRCRFRNSTRMEFRLQIWRYSMGPSPPIAPA
3. H129|UL44    TPKPTSTPKSPPTSTPDPKPKNNTTPAKSGRPTKPPGPVWCDRRDPLARYGSRVQIRCRFRNSTRMEFRLQIWRYSMGPSPPIAPA
4. KOS|UL44     TPKPTSTPKSPPTSTPDPKPKNNTTPAKSGRPTKPPGPVWCDRRDPLARYGSRVQIRCRFRNSTRMEFRLQIWRYSMGPSPPIAPA
5. McKr|UL44    TPKPTSTPKSPPTSTPDPKPKNNTTPAKSGRPTKPPGPVWCDRRDPLARYGSRVQIRCRFRNSTRMEFRLQIWRYSMGPSPPIAPA
6. HF10|UL44    TPKPTSTPKSPPTSTPDPKPKNNTTPAKSGRPTKPPGPVWCDRRDPLAQYGSRVQIRCRFRNSTRMEFRLQIWRYSTGPSPPIAPA
7. CR38|UL44    TPKPTSTPKSPPTSTPDPKPKNNTTPAKSGRPTKPPGPVWCDRRDPLARYGSRVQIRCRFRNSTRMEFRLQIWRYSMGPSPPIAPA
8. E03|UL44     TPKPTSTPKSPPTSTPDPKPKNNTTPAKSDRPTKPPGPVWCDRRDPLARYGSRVQIRCRFRNSTRMEFRLQIWRYSMGPSPPIAPA
9. E06|UL44     TPKPTSTPKSPPTSTPDPKPKNNTTPAKSDRPTKPLGPVWCDRRDLLARYGSRVQIRCRFRNSTRMEFRLQIWRYSTGPSPPIAPA
10. E07|UL44    TPKPTSTPKSPPTSTPDPKPKNNTTPAKSDRPTKPLGPVWCDRRDLLARYGSRVQIRCRFRNSTRMEFRLQIWRYSTGPSPPIAPA
11. E08|UL44    TPKPTSTPKSPPTSTPDPKPKNNTTPAKSGRPTKPPGPVWCDRRDPLARYGSRVQIRCRFRNSTRMEFRLQIWRYSMGPSPPIAPA
12. E10|UL44    TPKPTSTPKSPPTSTPDPKPKNNTTPAKSDRPTKPLGPVWCDRRDLLARYGSRVQIRCRFRNSTRMEFRLQIWRYSTGPSPPIAPA
13. E11|UL44    TPKPTSTPKSPPTSTPDPKPKNNTTPAKSDRPTKPLGPVWCDRRDLLARYGSRVQIRCRFRNSTRMEFRLQIWRYSTGPSPPIAPA
14. E12|UL44    TPKPTSTPKSPPTSTPDPKPKNNTTPAKSGRPTKPPGPVWCDRRDPLARYGSRVQIRCRFRNSTRMEFRLQIWRYSMGPSPPIAPA
15. E13|UL44    TPKPTSTPKSPPTSTPDPKPKNNTTPAKSDRPTKPPGPVWCDRRDLLARYGSRVQIRCRFRNSTRMEFRLQIWRYSTGPSPPIAPA
16. E14|UL44    TPKPTSTPKSPPTSTPDPKPKNNTTPAKSDRPTKPPGPVWCDRRDLLARYGSRVQIRCRFRNSTRMEFRLQIWRYSTGPSPPIAPA
17. E15|UL44    TPKPTSTPKSPPTSTPDPKPKNNTTPAKSDRPTKPLGPVWCDRRDLLARYGSRVQIRCRFRNSTRMEFRLQIWRYSTGPSPPIAPA
18. E19|UL44    TPKPTSTPKSPPTSTPDPKPKNNTTPAKSGRPTKPPGPVWCDRRDPLARYGSRVQIRCRFRNSTRMEFRLQIWRYSMGPSPPIAPA
19. E22|UL44    TPKPTSTPKSPPTSTPDPKPKNNTTPAKSDRPTKPLGPVWCDRRDLLARYGSRVQIRCRFRNSTRMEFRLQIWRYSTGPSPPIAPA
20. E23|UL44    TPKPTSTPKSPPTSTPDPKPKNNTTPAKSDRPTKPLGPVWCDRRDLLARYGSRVQIRCRFRNSTRMEFRLQIWRYSTGPSPPIAPA
21. E25|UL44    TPKPTSTPKSPPTSTPDPKPKNNTTPAKSDRPTKPLGPVWCDRRDLLARYGSRVQIRCRFRNSTRMEFRLQIWRYSTGPSPPIAPA
22. E35|UL44    TPKPTSTPKSPPTSTPDPKPKNNTTPAKSDRPTKPLGPVWCDRRDLLARYGSRVQIRCRFRNSTRMEFRLQIWRYSTGPSPPIAPA
23. R11|UL44    TPKPTSTPKSPPTSTPDPKPKNNTTPAKSGRPTKPPGPVWCDRRDPLARYGSRVQIRCRFRNSTRMEFRLQIWRYSMGPSPPIAPA
24. R62|UL44    TPKPTSTPKSPPTSTPDPKPKNNTTPAKSGRPTKPPGPVWCDRRDPLARYGSRVQIRCRFRNSTRMEFRLQIWRYSMGPSPPIAPA
25. S23|UL44    TPKPTSTPKSPPTSTPDPKPKNNTTPAKSGRPTKPPGPVWCDRRDPLARYGSRVQIRCRFRNSTRMEFRLQIWRYSMGPSPPIAPA
26. S25|UL44    TPKPTSTPKSPPTSTPDPKPKNNTTPAKSGRPTKPPGPVWCDRRDPLARYGSRVQIRCRFRNSTRMEFRLQIWRYSMGPSPPIAPA

                180       190       200       210       220       230       240       250
Consensus       PDLEEVLTNXTAPPGGLLVYDSAPNLTDPHVLWAEGAGPGADPPLYSVTGPLPTQRLIIGEVTPATQGMYYLAWGRMDSPHEYGTW
Identity        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

1. 17v2|UL44   PDLEEVLTNITAPPGGLLVYDSAPNLTDPHVLWAEGAGPGADPPLYSVTGPLPTQRLIIGEVTPATQGMYYLAWGRMDSPHEYGTW
2. F|UL44       PDLEEVLTNITAPPGGLLVYDSAPNLTDPHVLWAEGAGPGADPPLYSVTGPLPTQRLIIGEVTPATQGMYYLAWGRMDSPHEYGTW
3. H129|UL44    PDLEEVLTNITAPPGGLLVYDSAPNLTDPHVLWAEGAGPGADPPLYSVTGPLPTQRLIIGEVTPATQGMYYLAWGRMDSPHEYGTW
4. KOS|UL44     PDLEEVLTNITAPPGGLLVYDSAPNLTDPHVLWAEGAGPGADPPLYSVTGPLPTQRLIIGEVTPATQGMYYLAWGRMDSPHEYGTW
5. McKr|UL44    PDLEEVLTNITAPPGGLLVYDSAPNLTDPHVLWAEGAGPGADPPLYSVTGPLPTQRLIIGEVTPATQGMYYLAWGRMDSPHEYGTW
6. HF10|UL44    PDLEEVLTNVTAPPGGLLVYDSAPNLTDPHVLWAEGAGPGADPPLYSVTGPLPTQRLIIGEVTPAIQGMYYLAWGRMDSPHEYGTW
7. CR38|UL44    PDLEEVLTNITAPPGGLLVYDSAPNLTDPHVLWAEGAGPGADPPLYSVTGPLPTQRLIIGEVTPATQGMYYLAWGRMDSPHEYGTW
8. E03|UL44     PDLEEVLTNVTAPPGGLLVYDSAPNLTDPHVLWAEGAGPGADPPLYSVTGPLPTQRLIIGEVTPATQGMYYLAWGRMDSPHEYGTW
9. E06|UL44     PDLEEVLTNVTAPPGGLLVYDSAPNLTDPHVLWAEGAGPGADPPLYSVTGPLPTQRLIIGEVTPATQGMYYLAWGRMDSPHEYGTW
10. E07|UL44    PDLEEVLTNVTAPPGGLLVYDSAPNLTDPHVLWAEGAGPGADPPLYSVTGPLPTQRLIIGEVTPATQGMYYLAWGRMDSPHEYGTW
11. E08|UL44    PDLEEVLTNITAPPGGLLVYDSAPNLTDPHVLWAEGAGPGADPPLYSVTGPLPTQRLIIGEVTPATQGMYYLAWGRMDSPHEYGTW
12. E10|UL44    PDLEEVLTNVTAPPGGLLVYDSAPNLTDPHVLWAEGAGPGADPPLYSVTGPLPTQRLIIGEVTPATQGMYYLAWGRMDSPHEYGTW
13. E11|UL44    PDLEEVLTNVTAPPGGLLVYDSAPNLTDPHVLWAEGAGPGADPPLYSVTGPLPTQRLIIGEVTPATQGMYYLAWGRMDSPHEYGTW
14. E12|UL44    PDLEEVLTNITAPPGGLLVYDSAPNLTDPHVLWAEGAGPGADPPLYSVTGPLPTQRLIIGEVTPATQGMYYLAWGRMDSPHEYGTW
15. E13|UL44    PDLEEVLTNVTAPPGGLLVYDSAPNLTDPHVLWAEGAGPGADPPLYSVTGPLPTQRLIIGEVTPAIQGMYYLAWGRMDSPHEYGTW
16. E14|UL44    PDLEEVLTNVTAPPGGLLVYDSAPNLTDPHVLWAEGAGPGADPPLYSVTGPLPTQRLIIGEVTPAIQGMYYLAWGRMDSPHEYGTW
17. E15|UL44    PDLEEVLTNVTAPPGGLLVYDSAPNLTDPHVLWAEGAGPGADPPLYSVTGPLPTQRLIIGEVTPATQGMYYLAWGRMDSPHEYGTW
18. E19|UL44    PDLEEVLTNITAPPGGLLVYDSAPNLTDPHVLWAEGAGPGADPPLYSVTGPLPTQRLIIGEVTPATQGMYYLAWGRMDSPHEYGTW
19. E22|UL44    PDLEEVLTNVTAPPGGLLVYDSAPNLTDPHVLWAEGAGPGADPPLYSVTGPLPTQRLIIGEVTPATQGMYYLAWGRMDSPHEYGTW
20. E23|UL44    PDLEEVLTNVTAPPGGLLVYDSAPNLTDPHVLWAEGAGPGADPPLYSVTGPLPTQRLIIGEVTPATQGMYYLAWGRMDSPHEYGTW
21. E25|UL44    PDLEEVLTNVTAPPGGLLVYDSAPNLTDPHVLWAEGAGPGADPPLYSVTGPLPTQRLIIGEVTPATQGMYYLAWGRMDSPHEYGTW
22. E35|UL44    PDLEEVLTNVTAPPGGLLVYDSAPNLTDPHVLWAEGAGPGADPPLYSVTGPLPTQRLIIGEVTPATQGMYYLAWGRMDSPHEYGTW
23. R11|UL44    PDLEEVLTNITAPPGGLLVYDSAPNLTDPHVLWAEGAGPGADPPLYSVTGPLPTQRLIIGEVTPATQGMYYLAWGRMDSPHEYGTW
24. R62|UL44    PDLEEVLTNITAPPGGLLVYDSAPNLTDPHVLWAEGAGPGADPPLYSVTGPLPTQRLIIGEVTPATQGMYYLAWGRMDSPHEYGTW
25. S23|UL44    PDLEEVLTNITAPPGGLLVYDSAPNLTDPHVLWAEGAGPGADPPLYSVTGPLPTQRLIIGEVTPATQGMYYLAWGRMDSPHEYGTW
26. S25|UL44    PDLEEVLTNITAPPGGLLVYDSAPNLTDPHVLWAEGAGPGADPPLYSVTGPLPTQRLIIGEVTPATQGMYYLAWGRMDSPHEYGTW

                260       270       280       290       300       310       320       330       340
Consensus       VRVRMFRPPSLTLQPHAVMEGQPFKATCTAAAYYPRNPVEFDWFEDDRQVFNPGQIDTQTHEHPDGFTTVSTVTSEAVGGQVPPRT
Identity        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

1. 17v2|UL44   VRVRMFRPPSLTLQPHAVMEGQPFKATCTAAAYYPRNPVEFVWFEDDHQVFNPGQIDTQTHEHPDGFTTVSTVTSEAVGGQVPPRT
2. F|UL44       VRVRMFRPPSLTLQPHAVMEGQPFKATCTAAAYYPRNPVEFVWFEDDHQVFNPGQIDTQTHEHPDGFTTVSTVTSEAVGGQVPPRT
3. H129|UL44    VRVRMFRPPSLTLQPHAVMEGQPFKATCTAAAYYPRNPVEFVWFEDDHQVFNPVQIDTQTHEHPDGFTTVSTVTSEAVGGQVPPRT
4. KOS|UL44     VRVRMFRPPSLTLQPHAVMEGQPFKATCTAAAYYPRNPVEFVWFEDDRQVFNPGQIDTQTHEHPDGFTTVSTVTSEAVGGQVPPRT
5. McKr|UL44    VRVRMFRPPSLTLQPHAVMEGQPFKATCTADAYYPRNPVELVWFEDDRQVFNPGQIDTQTHEHPDGFTTVSTVTSEAVGGQVPPRT
6. HF10|UL44    VRVRTFRPPSLTLQPHAVMEGQPFKATCTAAAYYPRNPVEFDWFEDDRQVFNPGQIDTQTHEHPDGFTTVSTVTSEAVGGQVPPRT
7. CR38|UL44    VRVRMFRPPSLTLQPHAVMEGQPFKATCTAAAYYPRNPVEFVWFEDDRQVFNPGQIDTQTHEHPDGFTTVSTVTSEAVGGQVPPRT
8. E03|UL44     VRVRMFRPPSLTLQPHAVMEGQPFKATCTAAAYYPRNPVEFDWFEDDRQVFNPGQIDTQTHEHPDGFTTVSTVTSEAVGGQVPPRT
9. E06|UL44     VRVRMFRPPSLTLQPHAVMEGQPFKATCTAAAYYPRNPVEFDWFEDDRQVFNPGQIDTQTHEHPDGFTTVSTVTSEAVGGQVPPRT
10. E07|UL44    VRVRMFRPPSLTLQPHAVMEGQPFKATCTAAAYYPRNPVEFDWFEDDRQVFNPGQIDTQTHEHPDGFTTVSTVTSEAVGGQVPPRT
11. E08|UL44    VRVRMFRPPSLTLQPHAVMEGQPFKATCTAAAYYPRNPVEFDWFEDDRQVFNPGQIDTQTHEHPDGFTTVSTVTSEAVGGQVPPRT
12. E10|UL44    VRVRMFRPPSLTLQPHAVMEGQPFKATCTAAAYYPRNPVEFDWFEDDRQVFNPGQIDTQTHEHPDGFTTVSTVTSEAVGGQVPPRT
13. E11|UL44    VRVRMFRPPSLTLQPHAVMEGQPFKATCTAAAYYPRNPVEFDWFEDDRQVFNPGQIDTQTHEHPDGFTTVSTVTSEAVGGQVPPRT
14. E12|UL44    VRVRMFRPPSLTLQPHAVMEGQPFKATCTAAAYYPRNPVEFVWFEDDRQVFNPGQIDTQTHEHPDGFITVSTVTSEAVGGQVPPRT
15. E13|UL44    VRVRMFRPPSLTLQPHAVMEGQPFKATCTAAAYYPRNPVEFDWFEDDHQVFNPGQIDTQTHEHPDGFTTVSTVTSEAVGGQVPPRT
16. E14|UL44    VRVRMFRPPSLTLQPHAVMEGQPFKATCTAAAYYPRNPVEFDWFEDDRQVFNPGQIDTQTHEHPDGFTTVSTVTSEAVGGQVPPRT
17. E15|UL44    VRVRMFRPPSLTLQPHAVMEGQPFKATCTAAAYYPRNPVEFDWFEDDRQVFNPGQIDTQTHEHPDGFTTVSTVTSEAVGGQVPPRT
18. E19|UL44    VRVRMFRPPSLTLQPHAVMEGQPFKATCTAAAYYPRNPVEFDWFEDDRQVFNPGQIDTQTHEHPDGFTTVSTVTSEAVGGQVPPRT
19. E22|UL44    VRVRMFRPPSLTLQPHAVMEGQPFKATCTAAAYYPRNPVEFDWFEDDRQVFNPGQIDTQTHEHPDGFTTVSTVTSEAVGGQVPPRT
20. E23|UL44    VRVRMFRPPSLTLQPHAVMEGQPFKATCTAAAYYPRNPVEFDWFEDDRQVFNPGQIDTQTHEHPDGFTTVSTVTSEAVGGQVPPRT
21. E25|UL44    VRVRMFRPPSLTLQPHAVMEGQPFKATCTAAAYYPRNPVEFDWFEDDRQVFNPGQIDTQTHEHPDGFTTVSTVTSEAVGGQVPPRT
22. E35|UL44    VRVRMFRPPSLTLQPHAVMEGQPFKATCTAAAYYPRNPVEFDWFEDDRQVFNPGQIDTQTHEHPDGFTTVSTVTSEAVGGQVPPRT
23. R11|UL44    VRVRMFRPPSLTLQPHAVMEGQPFKATCTAAAYYPRNPVEFVWFEDDHQVFNPGQIDTQTHEHPDGFTTVSTVTSEAVGGQVPPRT
24. R62|UL44    VRVRMFRPPSLTLQPHAVMEGQPFKATCTADAYYPRNPVEFVWFEDDHQVFNPGQIDTQTHEHPDGFTTVSTVTSEAVGGQVPPRT
25. S23|UL44    VRVRMFRPPSLTLQPHAVMEGQPFKATCTADAYYPRNPVEFVWFEDDHQVFNPGQIDTQTHEHPDGFTTVSTVTSEAVGGQVPPRT
26. S25|UL44    VRVRMFRPPSLTLQPHAVMEGQPFKATCTADAYYPRNPVEFVWFEDDHQVFNPGQIDTQTHEHPDGFTTVSTVTSEAVGGQVPPRT

                350       360       370       380       390       400       410       420       430
Consensus       FTCQMTWHRDSVTFSRRNATGLALVLPRPTITMEFGVRHVVCTAGCVPEGVTFAWFLGDDPSPAAKSAVTAQESCDHPGLATVRST
Identity        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

1. 17v2|UL44   FTCQMTWHRDSVTFSRRNATGLALVLPRPTITMEFGVRHVVCTAGCVPEGVTFAWFLGDDPSPAAKSAVTAQESCDHPGLATVRST
2. F|UL44       FTCQMTWHRDSVTFSRRNATGLALVLPRPTITMEFGVRHVVCTAGCVPEGVTFAWFLGDDPSPAAKSAVTAQESCDRPGLATVRST
3. H129|UL44    FTCQMTWHRDSVTFSRRNATGLALVLPRPTITMEFGVRHVVCTAGCVPEGVTFAWFLGDDPSPAAKSAVTAQESCDHPGLATVRST
4. KOS|UL44     FTCQMTWHRDSVMFSRRNATGLALVLPRPTITMEFGVRHVVCTAGCVPEGVTFAWFLGDDPSPAAKSAVTAQESCDHPGLATVRST
5. McKr|UL44    FTCQMTWHRDSVTFSRRNATGLALVLPRPTITMEFGVRHVVCTAGCVPEGVTFAWFLGDDPSPAAKSAVTAQESCDHPGLATVRST
6. HF10|UL44    FTCQMTWHRDSVTFSRRNATGLALVLPRPTITMEFGVRHVVCTAGCVPEGVTFAWFLGDDPSPAAKSAVAAQESCDRPGLATVRST
7. CR38|UL44    FTCQMTWHRDSVTFSRRNATGLALVLPRPTITMEFGVRHVVCTAGCVPEGVTFAWFLGDDPSPAAKSAVTAQESCDHPGLATVRST
8. E03|UL44     FTCQMTWHRDSVTFSRRNATGLALVLPRPTITMEFGVRHVVCTAGCVPEGVTFAWFLGDDPSPAAKSAVTAQESCDRPGLATVRST
9. E06|UL44     FTCQMTWHRDSVTFSRRNATGLALVLPRPTITMEFGVRHVVCTAGCVPEGVTFAWFLGDDPSPAAKSAVTAQESCDHPGLATVRST
10. E07|UL44    FTCQMTWHRDSVTFSRRNATGLALVLPRPTITMEFGVRHVVCTAGCVPEGVTFAWFLGDDPSPAAKSAVTAQESCDHPGLATVRST
11. E08|UL44    FTCQMTWHRDSVTFSRRNATGLALVLPRPTITMEFGVRHVVCTAGCVPEGVTFAWFLGDDPSPAAKSAVTAQESCDHPGLATVRST
12. E10|UL44    FTCQMTWHRDSVTFSRRNATGLALVLPRPTITMEFGVRHVVCTAGCVPEGVTFAWFLGDDPSPAAKSAVTAQESCDHPGLATVRST
13. E11|UL44    FTCQMTWHRDSVTFSRRNATGLALVLPRPTITMEFGVRHVVCTAGCVPEGVTFAWFLGDDPSPAAKSAVTAQESCDHPGLATVRST
14. E12|UL44    FTCQMTWHRDSVTFSRRNATGLALVLPRPTITMEFGVRHVVCTAGCVPEGVTFAWFLGDDPSPAAKSAVTAQESCDRPGLATVRST
15. E13|UL44    FTCQMTWHRDSVTFSRRNATGLALVLPRPTITMEFGVRHVVCTAGCVPEGVTFAWFLGDDPSPAAKSAVTAQESCDHPGLATVRST
16. E14|UL44    FTCQMTWHRDSVTFSRRNATGLALVLPRPTITMEFGVRHVVCTAGCVPEGVTFAWFLGDDPSPAAKSAVTAQESCDRPGLATVRST
17. E15|UL44    FTCQMTWHRDSVTFSRRNATGLALVLPRPTITMEFGVRHVVCTAGCVPEGVTFAWFLGDDPSPAAKSAVTAQESCDHPGLATVRST
18. E19|UL44    FTCQMTWHRDSVTFSRRNATGLALVLPRPTITMEFGVRHVVCTAGCVPEGVTFAWFLGDDPSPAAKSAVTAQESCDHPGLATVRST
19. E22|UL44    FTCQMTWHRDSVTFSRRNATGLALVLPRPTITMEFGVRHVVCTAGCVPEGVTFAWFLGDDPSPAAKSAVTAQESCDHPGLATVRST
20. E23|UL44    FTCQMTWHRDSVTFSRRNATGLALVLPRPTITMEFGVRHVVCTAGCVPEGVTFAWFLGDDPSPAAKSAVTAQESCDHPGLATVRST
21. E25|UL44    FTCQMTWHRDSVTFSRRNATGLALVLPRPTITMEFGVRHVVCTAGCVPEGVTFAWFLGDDPSPAAKSAVTAQESCDHPGLATVRST
22. E35|UL44    FTCQMTWHRDSVTFSRRNATGLALVLPRPTITMEFGVRHVVCTAGCVPEGVTFAWFLGDDPSPAAKSAVTAQESCDHPGLATVRST
23. R11|UL44    FTCQITWHRDSVTFSRRNATGLALVLPRPTITMEFGVRHVVCTAGCVPEGVTFAWFLGDDPSPAAKSAVTAQESCDHPGLATVRST
24. R62|UL44    FTCQMTWHRDSVTFSRRNATGLALVLPRPTITMEFGVRHVVCTAGCVPEGVTFAWFLGDDPSPAAKSAVTAQESCDHPGLATVRST
25. S23|UL44    FTCQMTWHRDSVTFSRRNATGLALVLPRPTITMEFGVRHVVCTAGCVPKGVTFAWFLGDDPSPAAKSAVTAQESCDHPGLATVRST
26. S25|UL44    FTCQMTWHRDSVTFSRRNATGLALVLPRPTITMEFGVRHVVCTAGCVPEGVTFAWFLGDDPSPAAKSAVTAQESCDHPGLATVRST

                440       450       460       470       480       490       500       511
Consensus       LPISYDYSEYICRLTGYPAGIPVLEHHGSHQPPPRDPTERQVIEAIEWVGIGIGVLAAGVLVVTAIVYVVRTSQSRQRHRR
Identity        ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||

1. 17v2|UL44   LPISYDYSEYICRLTGYPAGIPVLEHHGSHQPPPRDPTERQVIEAIEWVGIGIGVLAAGVLVVTAIVYVVRTSQSRQRHRR
2. F|UL44       LPISYDYSEYICRLTGYPAGIPVLEHHGSHQPPPRDPTERQVIEAIEWVGIGIGVLAAGVLVVTAIVYVVRTSQSRQRHRR
3. H129|UL44    LPISYDYSEYICRLTGYPAGIPVLEHHGSHQPPPRDPTERQVIEAIEWVGIGIGVLAAGVLVVTAIVYVVRTSQSRQRHRR
4. KOS|UL44     LPISYDYSEYICRLTGYPAGIPVLEHHGSHQPPPRDPTERQVIEAIEWVGIGIGVLAAGVLVVTAIVYVVRTSQSRQRHRR
5. McKr|UL44    LPISYDYSEYICRLTGYPAGIPVLEHHGSHQPPPRDPTERQVIEAIEWVGIGIGVLAAGVLVVTAIVYVVRTSQSRQRHRR
6. HF10|UL44    LPISYDYSEYICRLTGYPAGIPVLEHHGSHQPPPRDPTERQVIEAIEWVGIGIGVLAAGVLVVTAIVYVVRTSQSRQRHRR
7. CR38|UL44    LPISYDYSEYICRLTGYPAGIPVLEHHGSHQPPPRDPTERQVIEAIEWVGIGIGVLAAGVLVVTAIVYVVRTSQSRQRHRR
8. E03|UL44     LPISYDYSEYICRLTGYPAGIPVLEHHGSHQPPPRDPTERQVIEAIEWVGIGIGVLAAGVLVVTAIVYVVRTSQSRQRHRR
9. E06|UL44     LPISYDYSEYICRLTGYPAGIPVLEHHGSHQPPPRDPTERQVIEAIEWVGIGIGVLAAGVLVVTAIVYVVRTSQSRQRHRR
10. E07|UL44    LPISYDYSEYICRLTGYPAGIPVLEHHGSHQPPPRDPTERQVIEAIEWVGIGIGVLAAGVLVVTAIVYVVRTSQSRQRHRR
11. E08|UL44    LPISYDYSEYICRLTGYPAGIPVLEHHGSHQPPPRDPTERQVIEAIEWVGIGIGVLAAGVLVVTAIVYVVRTSQSRQRHRR
12. E10|UL44    LPISYDYSEYICRLTGYPAGIPVLEHHGSHQPPPRDPTERQVIEAIEWVGIGIGVLAAGVLVVTAIVYVVRTSQSRQRHRR
13. E11|UL44    LPISYDYSEYICRLTGYPAGIPVLEHHGSHQPPPRDPTERQVIEAIEWVGIGIGVLAAGVLVVTAIVYVVRTSQSRQRHRR
14. E12|UL44    LPISYDYSEYICRLTGYPVGIPVLEHHGSHQPPPRDPTERQVIEAIEWVGIGIGVLAAGVLVVTAIVYVVRTSQSRQRHRR
15. E13|UL44    LPISYDYSEYICRLTGYPAGIPVLEHHGSHQPPPRDPTERQVIEAIEWVGIGIGVLAAGVLVVTAIVYVVRTSQSRQRHRR
16. E14|UL44    LPISYDYSEYICRLTGYPAGIPVLEHHGSHQPPPRDPTERQVIEAIEWVGIGIGVLAAGVLVVTAIVYVVRTSQSRQRHRR
17. E15|UL44    LPISYDYSEYICRLTGYPAGIPVLEHHGSHQPPPRDPTERQVIEAIEWVGIGIGVLAAGVLVVTAIVYVVRTSQSRQRHRR
18. E19|UL44    LPISYDYSEYICRLTGYPAGIPVLEHHGSHQPPPRDPTERQVIEAIEWVGIGIGVLAAGVLVVTAIVYVVRTSQSRQRHRR
19. E22|UL44    LPISYDYSEYICRLTGYPAGIPVLEHHGSHQPPPRDPTERQVIEAIEWVGIGIGVLAAGVLVVTAIVYVVRTSQSRQRHRR
20. E23|UL44    LPISYDYSEYICRLTGYPAGIPVLEHHGSHQPPPRDPTERQVIEAIEWVGIGIGVLAAGVLVVTAIVYVVRTSQSRQRHRR
21. E25|UL44    LPISYDYSEYICRLTGYPAGIPVLEHHGSHQPPPRDPTERQVIEAIEWVGIGIGVLAAGVLVVTAIVYVVRTSQSRQRHRR
22. E35|UL44    LPISYDYSEYICRLTGYPAGIPVLEHHGSHQPPPRDPTERQVIEAIEWVGIGIGVLAAGVLVVTAIVYVVRTSQSRQRHRR
23. R11|UL44    LPISYDYSEYICRLTGYPAGIPVLEHHGSHQPPPRDPTERQVIEAIEWVGIGIGVLAAGVLVVTAIVYVVRTSQSRQRHRR
24. R62|UL44    LPISYDYSEYICRLTGYPAGIPVLEHHGSHQPPPRDPTERKVIEAIEWVGIGIGVLAAGVLVVTAIVYVVRTSQSRQRHRR
25. S23|UL44    LPISYDYSEYICRLTGYPAGIPVLEHHGSHQPPPRDPTERKVIEAIEWVGIGIGVLAAGVLVVTAIVYVVRTSQSRQRHRR
26. S25|UL44    LPISYDYSEYICRLTGYPAGIPVLEHHGSHQPPPRDPTERKVIEAIEWVGIGIGVLAAGVLVVTAIVYVVRTSQSRQRHRR
```