1 10 20 30 40 50 60 70 80
Consensus MAAPVSEPTVARQKLLALLGQVQTYVFQIELLRRCDPHIGRGKLPQLKLNALQVRALRRRLRPGLEAQAGAFLTPLSVTLELLLEYAW
Identity
1. 17v2|UL28 MAAPVSEPTVARQKLLALLGQVQTYVFQIELLRRCDPHIGRGKLPQLKLNALQVRALRRRLRPGLEAQAGAFLTPLSVTLELLLEYAW
2. F|UL28 MAAPVSEPTVARQKLLALLGQVQTYVFQIELLRRCDPHIGRGKLPQLKLNALQVRALRRRLRPGLEAQAGAFLTPLSVTLELLLEYAW
3. H129|UL28 MAAPVSEPTVARQKLLALLGQVQTYVFQIELLRRCDPHIGRGKLPQLKLNALQVRALRRRLRPGLEAQAGAFLTPLSVTLELLLEYAW
4. KOS|UL28 MAAPVSEPTVARQKLLALLGQVQTYVFQIELLRRCDPHIGRGKLPQLKLNALQVRALRRRLRPGLEAQAGAFLTPLSVTLELLLEYAW
5. McKr|UL28 MAAPVSEPTVARQKLLALLGQVQTYVFQIELLRRCDPHIGRGKLPQLKLNALQVRALRRRLRPGLEAQAGAFLTPLSVTLELLLEYAW
6. HF10|UL28 MAAPVSEPTVARQKLLALLGQVQTYVFQIELLRRCDPHIGRGKLPQLKLNALQVRALRRRLRPGLEAQAGAFLTPLSVTLELLLEYAW
7. CR38|UL28 MAAPVSEPTVARQKLLALLGQVQTYVFQIELLRRCDPHIGRGKLPQLKLNALQVRALRRRLRPGLEAQAGAFLTPLSVTLELLLEYAW
8. E03|UL28 MAAPVSEPTVARQKLLALLGQVQTYVFQIELLRRCDPHIGRGKLPQLKLNALQVRALRRRLRPGLEAQAGAFLTPLSVTLELLLEYAW
9. E06|UL28 MAAPVSEPTVARQKLLALLGQVQTYVFQIELLRRCDPHIGRGKLPQLKLNALQVRALRRRLRPGLEAQAGAFLTPLSVTLELLLEYAW
10. E07|UL28 MAAPVSEPTVARQKLLALLGQVQTYVFQIELLRRCDPHIGRGKLPQLKLNALQVRALRRRLRPGLEAQAGAFLTPLSVTLELLLEYAW
11. E08|UL28 MAAPVSEPTVARQKLLALLGQVQTYVFQIELLRRCDPHIGRGKLPQLKLNALQVRALRRRLRPGLEAQAGAFLTPLSVTLELLLEYAW
12. E10|UL28 MAAPVSEPTVARQKLLALLGQVQTYVFQIELLRRCDPHIGRGKLPQLKLNALQVRALRRRLRPGLEAQAGAFLTPLSVTLELLLEYAW
13. E11|UL28 MAAPVSEPTVARQKLLALLGQVQTYVFQIELLRRCDPHIGRGKLPQLKLNALQVRALRRRLRPGLEAQAGAFLTPLSVTLELLLEYAW
14. E12|UL28 MAAPVSEPTVARQKLLALLGQVQTYVFQIELLRRCDPHIGRGKLPQLKLNALQVRALRRRLRPGLEAQAGAFLTPLSVTLELLLEYAW
15. E13|UL28 MAAPVSEPTVARQKLLALLGQVQTYVFQIELLRRCDPHIGRGKLPQLKLNALQVRALRRRLRPGLEAQAGAFLTPLSVTLELLLEYAW
16. E14|UL28 MAAPVSEPTVARQKLLALLGQVQTYVFQIELLRRCDPHIGRGKLPQLKLNALQVRALRRRLRPGLEAQAGAFLTPLSVTLELLLEYAW
17. E15|UL28 MAAPVSEPTVARQKLLALLGQVQTYVFQIELLRRCDPHIGRGKLPQLKLNALQVRALRRRLRPGLEAQAGAFLTPLSVTLELLLEYAW
18. E19|UL28 MAAPVSEPTVARQKLLALLGQVQTYVFQIELLRRCDPHIGRGKLPQLKLNALQVRALRRRLRPGLEAQAGAFLTPLSVTLELLLEYAW
19. E22|UL28 MAAPVSEPTVARQKLLALLGQVQTYVFQIELLRRCDPHIGRGKLPQLKLNALQVRALRRRLRPGLEAQAGAFLTPLSVTLELLLEYAW
20. E23|UL28 MAAPVSEPTVARQKLLALLGQVQTYVFQIELLRRCDPHIGRGKLPQLKLNALQVRALRRRLRPGLEAQAGAFLTPLSVTLELLLEYAW
21. E25|UL28 MAAPVSEPTVARQKLLALLGQVQTYVFQIELLRRCDPHIGRGKLPQLKLNALQVRALRRRLRPGLEAQAGAFLTPLSVTLELLLEYAW
22. E35|UL28 MAAPVSEPTVARQKLLALLGQVQTYVFQIELLRRCDPHIGRGKLPQLKLNALQVRALRRRLRPGLEAQAGAFLTPLSVTLELLLEYAW
23. R11|UL28 MAAPVSEPTVARQKLLALLGQVQTYVFQIELLRRCDPHIGRGKLPQLKLNALQVRALRRRLRPGLEAQAGAFLTPLSVTLELLLEYAW
24. R62|UL28 MAAPVSEPTVARQKLLALLGQVQTYVFQIELLRRCDPHIGRGKLPQLKLNALQVRALRRRLRPGLEAQAGAFLTPLSVTLELLLEYAW
25. S23|UL28 MAAPVSEPTVARQKLLALLGQVQTYVFQIELLRRCDPHIGRGKLPQLKLNALQVRALRRRLRPGLEAQAGAFLTPLSVTLELLLEYAW
26. S25|UL28 MAAPVSEPTVARQKLLALLGQVQTYVFQIELLRRCDPHIGRGKLPQLKLNALQVRALRRRLRPGLEAQAGAFLTPLSVTLELLLEYAW
90 100 110 120 130 140 150 160 170
Consensus REGERLLGSLETFATAGDVAAFFTETMGLARPCPYHQRVRLDTYGGTVHMELCFLHDVENFLKQLNYCHLITPSRGATAALERVREFM
Identity
1. 17v2|UL28 REGERLLGSLETFATAGDVAAFFTETMGLARPCPYHQRVRLDTYGGTVHMELCFLHDVENFLKQLNYCHLITPSRGATAALERVREFM
2. F|UL28 REGERLLGSLETFATAGDVAVFFTETMGLARPCPYHQRVRLDTYGGTVHMELCFLHDVENFLKQLNYCHLITPSRGATAALERVREFM
3. H129|UL28 REGERLLGSLETFATAGDVAAFFTETMGLARPCPYHQRVRLDTYGGTVHMELCFLHDVENFLKQLNYCHLITPSRGATAALERVREFM
4. KOS|UL28 REGERLLGSLETFATAGDVAAFFTETMGLARPCPYHQRVRLDTYGGTVHMELCFLHDVENFLKQLNYCHLITPSRGATAALERVREFM
5. McKr|UL28 REGERLLGSLETFATAGDVAAFFTETMGLARPCPYHQRVRLDTYGGTVHMELCFLHDVENFLKQLNYCHLITPSRGATAALERVREFM
6. HF10|UL28 REGERLLGSLETFATAGDVAAFFTETMGLARPCPYHQRVRLDTYGGTVHMELCFLHDVENFLKQLNYCHLITPSRGATAALERVREFM
7. CR38|UL28 REGERLLGSLETFATAGDVAAFFTETMGLALPCPYHQRVRLDTYGGTVHMELCFLHDVENFLKQLNYCHLITPSRGATAALERVREFM
8. E03|UL28 REGERLLGSLETFATAGDVAAFFTETMGLARPCPYHQRVRLETYGGTVHMELCFLHDVENFLKQLNYCHLITPSRGATAALERVREFM
9. E06|UL28 REGERLLGSLETFATAGDVAAFFTETMGLARPCPYHQRVRLETYGGTVHMELCFLHDVENFLKQLNYCHLITPSRGATAALERVREFM
10. E07|UL28 REGERLLGSLETFATAGDVAAFFTETMGLARPCPYHQRVRLDTYGGTVHMELCFLHDVENFLKQLNYCHLITPSRGATAALERVREFM
11. E08|UL28 REGERLLGSLETFATAGDVAAFFTETMGLARPCPYHQRVRLDTYGGTVHMELCFLHDVENFLKQLNYCHLITPSRGATAALERVREFM
12. E10|UL28 REGERLLGSLETFATAGDVAAFFTETMGLARPCPYHQRVRLETYGGTVHMELCFLHDVENFLKQLNYCHLITPSRGATAALERVREFM
13. E11|UL28 REGERLLGSLETFATAGDVAAFFTETMGLARPCPYHQRVRLETYGGTVHMELCFLHDVENFLKQLNYCHLITPSRGATAALERVREFM
14. E12|UL28 REGERLLGSLETFATAGDVAAFFTETMGLARPCPYHQQVRLDTYGGTVHMELCFLHDVENFLKQLNYCHLITPSRGATAALERVREFM
15. E13|UL28 REGERLLGSLETFATAGDVAAFFTETMGLARPCPYHQRVRLDTYGGTVHMELCFLHDVENFLKQLNYCHLITPSRGATAALERVREFM
16. E14|UL28 REGERLLGSLETFATAGDVAAFFTETMGLARPCPYHQRVRLDTYGGTVHMELCFLHDVENFLKQLNYCHLITPSRGATTALERVREFM
17. E15|UL28 REGERLLGSLETFATAGDVAAFFTETMGLARPCPYHQRVRLETYGGTVHMELCFLHDVENFLKQLNYCHLITPSRGATAALERVREFM
18. E19|UL28 REGERLLGSLETFATAGDVAAFFTETMGLARPCPYHQRVRLDTYGGTVHMELCFLHDVENFLKQLNYCHLITPSRGATAALERVREFM
19. E22|UL28 REGERLLGSLETFATAGDVAAFFTETMGLARPCPYHQRVRLETYGGTVHMELCFLHDVENFLKQLNFCHLITPSRGATAALERVREFM
20. E23|UL28 REGERLLGSLETFATAGDVAAFFTETMGLARPCPYHQRVRLETYGGTVHMELCFLHDVENFLKQLNYCHLITPSRGATAALERVREFM
21. E25|UL28 REGERLLGSLETFATAGDVAAFFTETMGLARPCPYHQRVRLETYGGTVHMELCFLHDVENFLKQLNYCHLITPSRGATAALERVREFM
22. E35|UL28 REGERLLGSLETFATAGDVAAFFTETMGLARPCPYHQRVRLETYGGTVHMELCFLHDVENFLKQLNYCHLITPSRGATAALERVREFM
23. R11|UL28 REGERLLGSLETFATAGDVAAFFTETMGLARPCPYHQRVRLDTYGGTVHMELCFLHDVENFLKQLNYCHLITPSRGATAALERVREFM
24. R62|UL28 REGERLLGSLETFATAGDVAAFFTETMGLARPCPYHQRVRLDTYGGTVHMELCFLHDVENFLKQLNYCHLITPSRGATAALERVREFM
25. S23|UL28 REGERLLGSLETFATAGDVAAFFTETMGLARPCPYHQRVRLDTYGGTVHMELCFLHDVENFLKQLNYCHLITPSRGATAALERVREFM
26. S25|UL28 REGERLLGSLETFATAGDVAAFFTETMGLARPCPYHQRVRLDTYGGTVHMELCFLHDVENFLKQLNYCHLITPSRGATAALERVREFM
180 190 200 210 220 230 240 250 260
Consensus VGAVGSGLIVPPELSDPSHPCAVCFEELCVTANQGATIARRLADRICNHVTQQAQVRLDANELRRYLPHAAGLSDADRARALSVLDHA
Identity
1. 17v2|UL28 VGAVGSGLIVPPELSDPSHPCAVCFEELCVTANQGATIARRLADRICNHVTQQAQVRLDANELRRYLPHAAGLSDADRARALSVLDHA
2. F|UL28 VGAVGSGLIVPPELSDPSHPCAVCFEELCVTANQGATIARRLADRICNHVTQQAQVRLDANELRRYLPHAAGLSDADRARALSVLDHA
3. H129|UL28 VGAVGSGLIVPPELSDPSHPCAVCFEELCVTANQGATIARRLADRICNHVTQQAQVRLDANELRRYLPHAAGLSDADRARALSVLDHA
4. KOS|UL28 VGAVGSGLIVPPELSDPSHPCAVCFEELCVTANQGATIARRLADRICNHVTQQAQVRLDANELRRYLPHAAGLSDADRARALSVLDHA
5. McKr|UL28 VGAVGSGLIVPPELSDPSHPCAVCFEELCVTANQGATIARRLADRICNHVTQQAQVRLDANELRRYLPHAAGLSDADRARALSVLDHA
6. HF10|UL28 VGAVGSGLIVPPELSDPSHPCAVCFEELCVTANQGATIARRLADRICNHVTQQAQVRLDANELRRYLPHAAGLSDADRARALSVLDHA
7. CR38|UL28 VGAVGSGLIVPPELSDPSHPCAVCFEELCVTANQGATIARRLADRICNHVTQQAQVRLDANELRRYLPHAAGLSDADRARALSVLDHA
8. E03|UL28 VGAVGSGLIVPPELSDPSHPCAVCFEELCVTANQGATIARRLADRICNHVTQQAQVRLDANELRRYLPHAAGLSDADRARALSVLDHA
9. E06|UL28 VGAVGSGLIVPPELSDPSHPCAVCFEELCVTANQGATIARRLADRICNHVTQQAQVRLDANELRRYLPHAAGLSDADRARALSVLDHA
10. E07|UL28 VGAVGSGLIVPPELSDPSHPCAVCFEELCVTANQGATIARRLADRICNHVTQQAQVRLDANELRRYLPHAAGLSDADRARALSVLDHA
11. E08|UL28 VGAVGSGLIVPPELSDPSHPCAVCFEELCVTANQGATIARRLADRICNHVTQQAQVRLDANELRRYLPHAAGLSDADRARALSVLDHA
12. E10|UL28 VGAVGSGLIVPPELSDPSHPCAVCFEELCVTANQGATIARRLADRICNHVTQQAQVRLDANELRRYLPHAAGLSDADRARALSVLDHA
13. E11|UL28 VGAVGSGLIVPPELSDPSHPCAVCFEELCVTANQGATIARRLADRICNHVTQQAQVRLDANELRRYLPHAAGLSDADRARALSVLDHA
14. E12|UL28 VGAVGSGLIVPPELSDPSHPCAVCFEELCVTANQGATIARRLADRICNHVTQQAQVRLDANELRRYLPHAAGLSDADRARALSVLDHA
15. E13|UL28 VGAVGSGLIVPPELSDPSHPCAVCFEELCVTANQGATIARRLADRICNHVTQQAQVRLDANELRRYLPHAAGLSDADRARALSVLDHA
16. E14|UL28 VGAVGSGLIVPPELSDPSHPCAVCFEELCVTANQGATIARRLADRICNHVTQQAQVRLDANELRRYLPHAAGLSDADRARALSVLDHA
17. E15|UL28 VGAVGSGLIVPPELSDPSHPCAVCFEELCVTANQGATIARRLADRICNHVTQQAQVRLDANELRRYLPHAAGLSDADRARALSVLDHA
18. E19|UL28 VGAVGSGLIVPPELSDPSHPCAVCFEELCVTANQGATIARRLADRICNHVTQQAQVRLDANELRRYLPHAAGLSDADRARALSVLDHA
19. E22|UL28 VGAVGSGLIVPPELSDPSHPCAVCFEELCVTANQGATIARRLADRICNHVTQQAQVRLDANELRRYLPHAAGLSDADRARALSVLDHA
20. E23|UL28 VGAVGSGLIVPPELSDPSHPCAVCFEELCVTANQGATIARRLADRICNHVTQQAQVRLDANELRRYLPHAAGLSDADRARALSVLDHA
21. E25|UL28 VGAVGSGLIVPPELSDPSHPCAVCFEELCVTANQGATIARRLADRICNHVTQQAQVRLDANELRRYLPHAAGLSDADRARALSVLDHA
22. E35|UL28 VGAVGSGLIVPPELSDPSHPCAVCFEELCVTANQGATIARRLADRICNHVTQQAQVRLDANELRRYLPHAAGLSDADRARALSVLDHA
23. R11|UL28 VGAVGSGLIVPPELSDPSHPCAVCFEELCVTANQGATIARRLADRICNHVTQQAQVRLDANELRRYLPHAAGLSDADRARALSVLDHA
24. R62|UL28 VGAVGSGLIVPPELSDPSHPCAVCFEELCVTANQGATIARRLADRICNHVTQQAQVRLDANELRRYLPHAAGLSDADRARALSVLDHA
25. S23|UL28 VGAVGSGLIVPPELSDPSHPCAVCFEELCVTANQGATIARRLADRICNHVTQQAQVRLDANELRRYLPHAAGLSDADRARALSVLDHA
26. S25|UL28 VGAVGSGLIVPPELSDPSHPCAVCFEELCVTANQGATIARRLADRICNHVTQQAQVRLDANELRRYLPHAAGLSDADRARALSVLDHA
270 280 290 300 310 320 330 340 350
Consensus LARTAGGDGQPHPSPENDSVRKEADALLEAHDVFQATTPGLYAISELRFWLASGDRAGQTTMDAFASNLTALARRELQQETAAVAVEL
Identity
1. 17v2|UL28 LARTAGGDGQPHPSPENDSVRKEADALLEAHDVFQATTPGLYAISELRFWLASGDRAGQTTMDAFASNLTALARRELQQETAAVAVEL
2. F|UL28 LARTAGGDGQPHPSPENDSVRKEADALLEAHDVFQATTPGLYAISELRFWLASGDRAGQTTMDAFASNLTALARRELQQETAAVAVEL
3. H129|UL28 LARTAGGDGQPHPSPENDSVRKEADALLEAHDVFQATTPGLYAISELRFWLASGDRAGQTTMDAFASNLTALARRELQQETAAVAVEL
4. KOS|UL28 LARTAGGDGQPHPSPENDSVRKEADALLEAHDVFQATTPGLYAISELRFWLASGDRAGQTTMDAFASNLTALARRELQQETAAVAVEL
5. McKr|UL28 LARTAGGDGQPHPSPENDSVRKEADALLEAHDVFQATTPGLYAISELRFWLASGDRAGQTTMDAFASNLTALARRELQQETAAVAVEL
6. HF10|UL28 LARTAGGDGQPHPAPENDSVRKEADALLEAHDVFQATTPGLYAISELRFWLASGDRAGQTTMDAFASNLTALARRELQQETAAVAVEL
7. CR38|UL28 LARTAGGDGQPHPSPENDSVRKEADALLEAHDVFQATTPGLYAISELRFWLASGDRAGQTTMDAFASNLTALARRELQQETAAVAVEL
8. E03|UL28 LARTSGGDGQPHPSPENDSVRKEADALLEAHDVFQATTPGLYAISELRFWLASGDRAGQTTMDAFASNLTALARRELQQETAAVAVEL
9. E06|UL28 LARTAGGDGQPHPAPENDSVRKEADALLEAHDVFQATTPGLYAISELRFWLASGDRAGQTTMDAFASNLTALARRELQQETAAVAVEL
10. E07|UL28 LARTAGGDGQPHPSPENDSVRKEADALLEAHDVFQATTPGLYAISELRFWLASGDRAGQTTMDAFASNLTALARRELQQETAAVAVEL
11. E08|UL28 LARTAGGDGQPHPSPENDSVRKEADALLEAHDVFQATTPGLYAISELRFWLASGDRAGQTTMDAFASNLTALARRELQQETAAVAVEL
12. E10|UL28 LARTAGGDGQPHPAPENDSVRKEADALLEAHDVFQATTPGLYAISELRFWLASGDRAGQTTMDAFASNLTALARRELQQETAAVAVEL
13. E11|UL28 LARTAGGDGQPHPAPENDSVRKEADALLEAHDVFQATTPGLYAISELRFWLASGDRAGQTTMDAFASNLTALARRELQQETAAVAVEL
14. E12|UL28 LARTAGGDGQPHPSPENDSVRKEADALLEAHDVFQATTPGLYAISELRFWLASGDRAGQTTMDAFASNLTALARRELQQETAAVAVEL
15. E13|UL28 LARTAGGDGQPHPSPENDSVRKEADALLEAHDVFQATTPGLYAISELRFWLASGDRAGQTTMDAFASNLTALARRELQQETAAVAVEL
16. E14|UL28 LARTAGGDGQPHPSPENDSVRKEADALLEAHDVFQATTPGLYAISELRFWLASGDRAGQTTMDAFASNLTALARRELQQETAAVAVEL
17. E15|UL28 LARTAGGDGQPHPAPENDSVRKEADALLEAHDVFQATTPGLYAISELRFWLASGDRAGQTTMDAFASNLTALARRELQQETAAVAVEL
18. E19|UL28 LARTAGGDGQPHPSPENDSVRKEADALLEAHDVFQATTPGLYAISELRFWLASGDRAGQTTMDAFASNLTALARRELQQETAAVAVEL
19. E22|UL28 LARTAGGDGQPHPAPENDSVRKEADALLEAHDVFQATTPGLYAISELRFWLASGDRAGQTTMDAFASNLTALARRELQQETAAVAVEL
20. E23|UL28 LARTAGGDGQPHPAPENDSVRKEADALLEAHDVFQATTPGLYAISELRFWLASGDRAGQTTMDAFASNLTALARRELQQETAAVAVEL
21. E25|UL28 LARTAGGDGQPHPAPENDSVRKEADALLEAHDVFQATTPGLYAISELRFWLASGDRAGQTTMDAFASNLTALARRELQQETAAVAVEL
22. E35|UL28 LARTAGGDGQPHPAPENDSVRKEADALLEAHDVFQATTPGLYAISELRFWLASGDRAGQTTMDAFASNLTALARRELQQETAAVAVEL
23. R11|UL28 LARTAGGDGQPHPSPENDSVRKEADALLEAHDVFQATTPGLYAISELRFWLASGDRAGQTTMDAFASNLTALARRELQQETAAVAVEL
24. R62|UL28 LARTAGGDGQPHPSPENDSVRKEADALLEAHDVFQATTPGLYAISELRFWLASGDRAGQTTMDAFASNLTALARRELQQETAAVAVEL
25. S23|UL28 LARTAGGDGQPHPSPENDSVRKEADALLEAHDVFQATTPGLYAISELRFWLASGDRAGQTTMDAFASNLTALARRELQQETAAVAVEL
26. S25|UL28 LARTAGGDGQPHPSPENDSVRKEADALLEAHDVFQATTPGLYAISELRFWLASGDRAGQTTMDAFASNLTALARRELQQETAAVAVEL
360 370 380 390 400 410 420 430 440
Consensus ALFGRRAEHFDRAFGSHLAALDMVDALIIGGQATSPDDQIEALIRACYDHHLTTPLLRRLVSPEQCDEEALRRVLARMGAGGAADAPK
Identity
1. 17v2|UL28 ALFGRRAEHFDRAFGSHLAALDMVDALIIGGQATSPDDQIEALIRACYDHHLTTPLLRRLVSPEQCDEEALRRVLARMGAGGAADAPK
2. F|UL28 ALFGRRAEHFDRAFGSHLAALDMVDALIIGGQATSPDDQIEALIRACYDHHLTTPLLRRLVSPEQCDEEALRRVLARMGAGGAADAPK
3. H129|UL28 ALFGRRAEHFDRAFGSHLAALDMVDALIIGGQATSPDDQIEALIRACYDHHLTTPLLRRLVSPEQCDEEALRRVLARMGAGGATDAPK
4. KOS|UL28 ALFGRRAEHFDRAFGSHLAALDMVDALIIGGQATSPDDQIEALIRACYDHHLTTPLLRRLVSPEQCDEEALRRVLARMGAGGAADAPK
5. McKr|UL28 ALFGRRAEHFDRAFGSHLAALDMVDALIIGGQATSPDDQIEALIRACYDHHLTTPLLRRLVSPEQCDEEALRRVLARMGAGGAADAPK
6. HF10|UL28 ALFGRRAEHFDRAFGSHLAALDMVDALIIGGQATSPDDQIEALIRACYDHHLTTPLLRRLVSPEQCDEEALRRVLARMGAGGAADAPK
7. CR38|UL28 ALFGRRAEHFDRAFGSHLAALDMVDALIIGGQATSPDDQIEALIRACYDHHLTTPLLRRLVSPEQCDEEALRRVLARMGAGGAADAPK
8. E03|UL28 ALFGRRAEHFDRAFGSHLAALDMVDALIIGGQATSPDDQIEALIRACYDHHLTTPLLRRLVSPEQCDEEALRRVLARMGAGGAADAPK
9. E06|UL28 ALFGRRAEHFDRAFGSHLAALDMVDALIIGGQATSPDDQIEALIRACYDHHLTTPLLRRLVSPEQCDEEALRRVLARMGAGGAADAPK
10. E07|UL28 ALFGRRAEHFDRAFGSHLAALDMVDALIIGGQATSPDDQIEALIRACYDHHLTTPLLRRLVSPEQCDEEALRRVLARMGAGGAADAPK
11. E08|UL28 ALFGRRAEHFDRAFGSHLAALDMVDALIIGGQATSPDDQIEALIRACYDHHLTTPLLRRLVSPEQCDEEALRRVLARMGAGGAADAPK
12. E10|UL28 ALFGRRAEHFDRAFGSHLAALDMVDALIIGGQATSPDDQIEALIRACYDHHLTTPLLRRLVSPEQCDEEALRRVLARMGAGGAADAPK
13. E11|UL28 ALFGRRAEHFDRAFGSHLAALDMVDALIIGGQATSPDDQIEALIRACYDHHLTTPLLRRLVSPEQCDEEALRRVLARMGAGGAADAPK
14. E12|UL28 ALFGRRAEHFDRAFGSHLAALDMVDALIIGGQATSPDDQIEALIRACYDHHLTTPLLRRLVSPEQCDEEALRRVLARMGAGGAADAPK
15. E13|UL28 ALFGRRAEHFDRAFGSHLAALDMVDALIIGGQATSPDDQIEALIRACYDHHLTTPLLRRLVSPEQCDEEALRRVLARMGAGGAADAPK
16. E14|UL28 ALFGRRAEHFDRAFGSHLAALDMVDALIIGGQATSPDDQIEALIRACYDHHLTTPLLRRLVSPEQCDEEALRRVLARMGAGGAADAPK
17. E15|UL28 ALFGRRAEHFDRAFGSHLAALDMVDALIIGGQATSPDDQIEALIRACYDHHLTTPLLRRLVSPEQCDEEALRRVLARMGAGGAADAPK
18. E19|UL28 ALFGRRAEHFDRAFGSHLAALDMVDALIIGGQATSPDDQIEALIRACYDHHLTTPLLRRLVSPEQCDEEALRRVLARMGAGGAADAPK
19. E22|UL28 ALFGRRAEHFDRAFGSHLAALDMVDALIIGGQATSPDDQIEALIRACYDHHLTTPLLRRLVSPEQCDEEALRRVLARMGAGGAADAPK
20. E23|UL28 ALFGRRAEHFDRAFGSHLAALDMVDALIIGGQATSPDDQIEALIRACYDHHLTTPLLRRLVSPEQCDEEALRRVLARMGAGGAADAPK
21. E25|UL28 ALFGRRAEHFDRAFGSHLAALDMVDALIIGGQATSPDDQIEALIRACYDHHLTTPLLRRLVSPEQCDEEALRRVLARMGAGGAADAPK
22. E35|UL28 ALFGRRAEHFDRAFGSHLAALDMVDALIIGGQATSPDDQIEALIRACYDHHLTTPLLRRLVSPEQCDEEALRRVLARMGAGGAADAPK
23. R11|UL28 ALFGRRAEHFDRAFGSHLAALDMVDALIIGGQATSPDDQIEALIRACYDHHLTTPLLRRLVSPEQCDEEALRRVLARMGAGGAADAPK
24. R62|UL28 ALFGRRAEHFDRAFGSHLAALDMVDALIIGGQATSPDDQIEALIRACYDHHLTTPLLRRLVSPEQCDEEALRRVLARMGAGGAADAPK
25. S23|UL28 ALFGRRAEHFDRAFGSHLAALDMVDALIIGGQATSPDDQIEALIRACYDHHLTTPLLRRLVSPEQCDEEALRRVLARMGAGGAADAPK
26. S25|UL28 ALFGRRAEHFDRAFGSHLAALDMVDALIIGGQATSPDDQIEALIRACYDHHLTTPLLRRLVSPEQCDEEALRRVLARMGAGGAADAPK
450 460 470 480 490 500 510 520
Consensus GGAGPDDDGDRVAVEEGARGLGAPGGGGEDEDRRRGPGGQGPETWGDIATQAAADVRERRRLYADRLTKRSLASLGRCVREQRGELEK
Identity
1. 17v2|UL28 GGAGPDDDGDRVAVEEGARGLGAPGGGGEDEDRRRGPGGQGPETWGDIATQAAADVRERRRLYADRLTKRSLASLGRCVREQRGELEK
2. F|UL28 GGAGPDDDGDRVAVEEGARGLGAPGGGGEDEDRRRGPGGQGPETWGDIATQAAADVRERRRLYADRLTKRSLASLGRCVREQRGELEK
3. H129|UL28 GGAGPDDDGDRVAVEEGARGLGAPGGGGEDEDRRRGPGGQGPETWGDIATQAAADVRERRRLYADRLTKRSLASLGRCVREQRGELEK
4. KOS|UL28 GGAGPDDDGDRVAVEEGARGLGAPGGGGEDEDRRRGPGGQGPETWGDIATQAAADVRERRRLYADRLTKRSLASLGRCVREQRGELEK
5. McKr|UL28 GGAGPDDDGDRVAVEEGARGLGAPGGGGEDEDRRRGPGGQGPETWGDIATQAAADVRERRRLYADRLTKRSLASLGRCVREQRGELEK
6. HF10|UL28 GGAGPDDDGDRVAVEEGTRGLGAPGGGGEDEDRRRGPGGQGPETWGDIATQAAADVRERRRLYADRLTKRSLASLGRCVREQRGELEK
7. CR38|UL28 GGAGPDDDGDRVAVEEGARGLGAPGGGGEDEDRRRGPGGQGPETWGDIATQAAADVRERRRLYADRLTKRSLASLGRCVREQRGELEK
8. E03|UL28 GGAGPDDDGDRGAVEEGTRGLGAPGGGGEDEDRRRGPGGQGPETWGDIATQAAADVRERRRLYADRLTKRSLASLGRCVREQRGELEK
9. E06|UL28 GGAGPDDDGDRVAVEEGARGLGAPGGGGEDEDRRRGPGGQGPETWGDIATQAAADVRERRRLYADRLTKRSLASLGRCVREQRGELEK
10. E07|UL28 GGAGPDDDGDRVAVEEGARGLGAPGGGGEDEDRRRGPGGQGPETWGDIATQAAADVRERRRLYADRLTKRSLASLGRCVREQRGELEK
11. E08|UL28 GGAGPDDDGDRVAVEEGARGLGAPGGGGEDEDRRRGPGGQGPETWGDIATQAAADVRERRRLYADRLTKRSLASLGRCVREQRGELEK
12. E10|UL28 GGAGPDDDGDRVAVEEGARGLGAPGGGGEDEDRRRGPGGQGPETWGDIATQAAADVRERRRLYADRLTKRSLASLGRCVREQRGELEK
13. E11|UL28 GGAGPDDDGDRVAVEEGARGLGAPGGGGEDEDRRRGPGGQGPETWGDIATQAAADVRERRRLYADRLTKRSLASLGRCVREQRGELEK
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16. E14|UL28 GGAGPDDDGDRVAVEEGARGLGAPGGGGEDEDRRRGPGGQGPETWGDIATQAAADVRERRRLYADRLTKRSLASLGRCVREQRGELEK
17. E15|UL28 GGAGPDDDGDRVAVEEGARGLGAPGGGGEDEDRRRGPGGQGPETWGDIATQAAADVRERRRLYADRLTKRSLASLGRCVREQRGELEK
18. E19|UL28 GGAGPDDDGDRVAVEEGARGLGAPGGGGEDEDRRRGPGGQGPETWGDIATQAAADVRERRRLYADRLTKRSLASLGRCVREQRGELEK
19. E22|UL28 GGAGPDDDGDRGAVEEGTRGLGAPGGGGEDEDRRRGPGGQGPETWGDIATQAAADVRERRRLYADRLTKRSLASLGRCVREQRGELEK
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22. E35|UL28 GGAGPDDDGDRVAVEEGARGLGAPGGGGEDEDRRRGPGGQGPETWGDIATQAAADVRERRRLYADRLTKRSLASLGRCVREQRGELEK
23. R11|UL28 GGAGPDDDGDRVAVEEGARGLGAPGGGGEDEDRRRGPGGQGPETWGDIATQAAADVRERRRLYADRLTKRSLASLGRCVREQRGELEK
24. R62|UL28 GGAGPDDDGDRVAVEEGARGLGAPGGGGEDEDRRRGPGGQGPETWGDIATQAAADVRERRRLYADRLTKRSLASLGRCVREQRGELEK
25. S23|UL28 GGAGPDDDGDRVAVEEGARGLGAPGGGGEDEDRRRGPGGQGPETWGDIATQAAADVRERRRLYADRLTKRSLASLGRCVREQRGELEK
26. S25|UL28 GGAGPDDDGDRVAVEEGARGLGAPGGGGEDEDRRRGPGGQGPETWGDIATQAAADVRERRRLYADRLTKRSLASLGRCVREQRGELEK
530 540 550 560 570 580 590 600 610
Consensus MLRVSVHGEVLPATFAAVANGFAARARFCALTAGAGTVIDNRSAPGVFDAHRFMRASLLRHQVDPALLPSITHRFFELVNGPLFDHST
Identity
1. 17v2|UL28 MLRVSVHGEVLPATFAAVANGFAARARFCALTAGAGTVIDNRSAPGVFDAHRFMRASLLRHQVDPALLPSITHRFFELVNGPLFDHST
2. F|UL28 MLRVSVHGEVLPATFAAVANGFAARARFCALTAGAGTVIDNRSAPGVFDAHRFMRASLLRHQVDPALLPSITHRFFELVNGPLFDHST
3. H129|UL28 MLRVSVHGEVLPATFAAVANGFAARARFCALTAGAGTVIDNRSAPGVFDAHRFMRASLLRHQVDPALLPSITHRFFELVNGPLFDHST
4. KOS|UL28 MLRVSVHGEVLPATFAAVANGFAARARFCALTAGAGTVIDNRSAPGVFDAHRFMRASLLRHQVDPALLPSITHRFFELVNGPLFDHST
5. McKr|UL28 MLRVSVHGEVLPATFAAVANGFAARARFCALTAGAGTVIDNRSAPGVFDAHRFMRASLLRHQVDPALLPSITHRFFELVNGPLFDHST
6. HF10|UL28 MLRVSVHGEVLPATFAAVANGFAARARFCALTAGAGTVIDNRSAPGVFDAHRFMRASLLRHQVDPALLPSITHRFFELVNGPLFDHST
7. CR38|UL28 MLRVSVHGEVLPATFAAVANGFAARARFCALTAGAGTVIDNRSAPGVFDAHRFMRASLLRHQVDPALLPSITHRFFELVNGPLFDHST
8. E03|UL28 MLRVSVHGEVLPATFAAVANGFAARARFCALTAGAGTVIDNRSAPGVFDAHRFMRASLLRHQVDPALLPSITHRFFELVNGPLFDHST
9. E06|UL28 MLRVSVHGEVLPATFAAVANGFAARARFCALTAGAGTVIDNRSAPGVFDAHRFMRASLLRHQVDPALLPSITHRFFELVNGPLFDHST
10. E07|UL28 MLRVSVHGEVLPATFAAVANGFAARARFCALTAGAGTVIDNRSAPGVFDAHRFMRASLLRHQVDPALLPSITHRFFELVNGPLFDHST
11. E08|UL28 MLRVSVHGEVLPATFAAVANGFAARARFCALTAGAGTVIDNRSAPGVFDAHRFMRASLLRHQVDPALLPSITHRFFELVNGPLFDHST
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16. E14|UL28 MLRVSVHGEVLPATFAAVANGFAARARFCALTAGAGTVIDNRSAPGVFDAHRFMRASLLRHQVDPALLPSITHRFFELVNGPLFDHST
17. E15|UL28 MLRVSVHGEVLPATFAAVANGFAARARFCALTAGAGTVIDNRSAPGVFDAHRFMRASLLRHQVDPALLPSITHRFFELVNGPLFDHST
18. E19|UL28 MLRVSVHGEVLPATFAAVANGFAARARFCALTAGAGTVIDNRSAPGVFDAHRFMRASLLRHQVDPALLPSITHRFFELVNGPLFDHST
19. E22|UL28 MLRVSVHGEVLPATFAAVANGFAARARFCALTAGAGTVIDNRSAPGVFDAHRFMRASLLRHQVDPALLPSITHRFFELVNGPLFDHST
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22. E35|UL28 MLRVSVHGEVLPATFAAVANGFAARARFCALTAGAGTVIDNRSAPGVFDAHRFMRASLLRHQVDPALLPSITHRFFELVNGPLFDHST
23. R11|UL28 MLRVSVHGEVLPATFAAVANGFAARARFCALTAGAGTVIDNRSAPGVFDAHRFMRASLLRHQVDPALLPSITHRFFELVNGPLFDHST
24. R62|UL28 MLRVSVHGEVLPATFAAVANGFAARARFCALTAGAGTVIDNRSAPGVFDAHRFMRASLLRHQVDPALLPSITHRFFELVNGPLFDHST
25. S23|UL28 MLRVSVHGEVLPATFAAVANGFAARARFCALTAGAGTVIDNRSAPGVFDAHRFMRASLLRHQVDPALLPSITHRFFELVNGPLFDHST
26. S25|UL28 MLRVSVHGEVLPATFAAVANGFAARARFCALTAGAGTVIDNRSAPGVFDAHRFMRASLLRHQVDPALLPSITHRFFELVNGPLFDHST
620 630 640 650 660 670 680 690 700
Consensus HSFAQPPNTALYYSVENVGLLPHLKEELARFIMGAGGSGADWAVSEFQRFYCFDGISGITPTQRAAWRYIRELIIATTLFASVYRCGE
Identity
1. 17v2|UL28 HSFAQPPNTALYYSVENVGLLPHLKEELARFIMGAGGSGADWAVSEFQRFYCFDGISGITPTQRAAWRYIRELIIATTLFASVYRCGE
2. F|UL28 HSFAQPPNTALYYSVENVGLLPHLKEELARFIMGAGGSGADWAVSEFQRFYCFDGISGITPTQRAAWRYIRELIIATTLFASVYRCGE
3. H129|UL28 HSFAQPPNTALYYSVENVGLLPHLKEELARFIMGAGGSGADWAVSEFQRFYCFDGISGITPTQRAAWRYIRELIIATTLFASVYRCGE
4. KOS|UL28 HSFAQPPNTALYYSVENVGLLPHLKEELARFIMGAGGSGADWAVSEFQRFYCFDGISGITPTQRAAWRYIRELIIATTLFASVYRCGE
5. McKr|UL28 HSFAQPPNTALYYSVENVGLLPHLKEELARFIMGAGGSGADWAVSEFQRFYCFDGISGITPTQRAAWRYIRELIIATTLFASVYRCGE
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710 720 730 740 750 760 770 780 785
Consensus LELRRPDCSRPTSEGRYRYPPGVYLTYDSDCPLVAIVESAPDGCIGPRSVVVYDRDVFSILYSVLQHLAPRLPDGGHDGPP
Identity
1. 17v2|UL28 LELRRPDCSRPTSEGRYRYPPGVYLTYDSDCPLVAIVESAPDGCIGPRSVVVYDRDVFSILYSVLQHLAPRLPDGGHDGPP
2. F|UL28 LELRRPDCSRPTSEGRYRYPPGVYLTYDSDCPLVAIVESAPDGCIGPRSVVVYDRDVFSILYSVLQHLAPRLPDGGHDGPP
3. H129|UL28 LELRRPDCSRPTSEGRYRYPPGVYLTYDSDCPLVAIVESAPDGCIGPRSVVVYDRDVFSILYSVLQHLAPRLPDGGHDGPP
4. KOS|UL28 LELRRPDCSRPTSEGRYRYPPGVYLTYDSDCPLVAIVESAPDGCIGPRSVVVYDRDVFSILYSVLQHLAPRLPDGGHDGPP
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