

Supplemental Data

Supplemental Data 1. Related sequences of CTV-N4VSR expression vector

Sequence of pH7LIC3.0 (35S-EV)

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Sequence of pH7LIC3.1.1-N4CP (35S-N4CP)

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Sequence of pH7LIC3.1.1-N4p20 (35S-N4p20)

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Sequence of pH7LIC3.1.1-N4p23 (35S-N4p23)

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Sequence of pMS4 (35S-GFP)

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Supplemental Data 2. Related sequences of CTV-N4p23 mutants with point mutation

Sequence of pH7LIC3.1.1(35S-CCDB)

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Sequence of pH7LIC3.1.1-p23M2 (35S- p23M2)

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Sequence of pH7LIC3.1.1-p23M3 (35S- p23M3)

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Sequence of pH7LIC3.1.1-p23M5 (35S- p23M5)

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Sequence of pH7LIC3.1.1-p23M6 (35S- p23M6)

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Sequence of pH7LIC3.1.1-p23M8 (35S- p23M8)

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Sequence of pH7LIC3.1.1-p23M10 (35S- p23M10)

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Sequence of pH7LIC3.1.1-p23M11 (35S- p23M11)

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Sequence of pH7LIC3.1.1-p23M13 (35S- p23M13)

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Sequence of pH7LIC3.1.1-p23M14 (35S- p23M14)

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Sequence of pH7LIC3.1.1-p23M18 (35S- p23M18)

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Supplemental Data 3. Related sequences of N4p23 subcellular localization expression vector

Sequence of pH7LIC5.1.1 (35S-GFP-CCDB)

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Sequence of pH7LIC5.1.1-N4p23 (35S-GFP-N4p23)

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Sequence of pH7LIC5.1.1-N4T36 (35S-GFP-N4T36)

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Supplemental Data 4. Amino acid sequence alignment, classification, and phylogenetic tree analysis

Supplemental Data 4-1 : p23 amino acid sequences

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Supplemental Data 4-2 : classification of p23 amino acid sequences

>Cluster 0

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| 1 | 209aa, >U42017.1... at 93.78% |
| 2 | 209aa, >U42018.1... at 96.65% |
| 3 | 209aa, >U42022.1... at 93.30% |
| 4 | 209aa, >U42023.1... at 93.78% |
| 5 | 185aa, >EU262685.1... at 94.05% |
| 6 | 204aa, >EU483657.1... at 94.61% |
| 7 | 204aa, >EU487601.1... at 93.63% |
| 8 | 209aa, >FJ860145.1... at 93.30% |
| 9 | 209aa, >GQ475044.1... at 95.22% |
| 10 | 209aa, >GQ475045.1... at 93.78% |
| 11 | 209aa, >GQ475046.1... at 93.78% |
| 12 | 209aa, >GQ475047.1... at 93.78% |
| 13 | 209aa, >GQ475048.1... at 94.26% |
| 14 | 196aa, >GQ338647.1... at 94.90% |
| 15 | 196aa, >GQ338650.1... at 93.37% |
| 16 | 196aa, >GQ338652.1... at 97.45% |
| 17 | 196aa, >GQ338653.1... at 94.39% |
| 18 | 196aa, >GQ338654.1... at 93.37% |
| 19 | 196aa, >GQ338658.1... at 96.94% |
| 20 | 210aa, >HQ329231.1... at 97.14% |
| 21 | 210aa, >HQ329232.1... at 98.10% |
| 22 | 210aa, >HQ329233.1... at 98.10% |
| 23 | 210aa, >HQ329234.1... at 94.29% |
| 24 | 210aa, >HQ329235.1... at 93.33% |
| 25 | 210aa, >HQ329236.1... at 94.29% |
| 26 | 210aa, >HQ329237.1... at 97.62% |
| 27 | 210aa, >HQ329239.1... at 95.71% |
| 28 | 210aa, >HQ329240.1... at 93.81% |
| 29 | 210aa, >HQ329241.1... at 93.33% |
| 30 | 210aa, >HQ329242.1... at 94.29% |
| 31 | 210aa, >HQ329243.1... at 97.14% |
| 32 | 210aa, >HQ329244.1... at 97.62% |
| 33 | 210aa, >HQ329245.1... at 94.29% |
| 34 | 210aa, >HQ329246.1... at 93.33% |
| 35 | 209aa, >AJ579773.1... at 93.30% |
| 36 | 209aa, >AJ579776.1... at 95.22% |
| 37 | 209aa, >AJ579777.1... at 94.74% |
| 38 | 210aa, >JN384022.1... at 93.81% |
| 39 | 205aa, >JQ819955.1... at 93.17% |
| 40 | 205aa, >JQ819960.1... at 93.17% |
| 41 | 205aa, >JQ820001.1... at 93.17% |

42 204aa, >JQ820013.1... at 93.63%
43 213aa, >KC202908.1... *
44 209aa, >KC562142.1... at 93.30%
45 209aa, >KC577594.1... at 93.30%
46 209aa, >KF724146.1... at 97.61%
47 209aa, >KC774010.1... at 93.78%
48 209aa, >KC774012.1... at 93.78%
49 209aa, >KC774014.1... at 94.26%
50 209aa, >KC774015.1... at 94.26%
51 209aa, >KF913716.1... at 93.78%
52 210aa, >AY750732.1... at 93.33%
53 210aa, >AY750735.1... at 93.81%
54 210aa, >AY750740.1... at 96.67%
55 210aa, >AY750742.1... at 93.33%
56 210aa, >AY750745.1... at 97.14%
57 210aa, >AY750746.1... at 94.29%
58 210aa, >AY962348.1... at 95.24%
59 210aa, >AY962350.1... at 95.71%
60 210aa, >AY962356.1... at 95.71%
61 210aa, >AY962363.1... at 94.29%
62 210aa, >AY962368.1... at 95.71%
63 210aa, >AY962369.1... at 94.29%
64 210aa, >AY962370.1... at 94.29%
65 210aa, >AY962374.1... at 94.29%
66 210aa, >AY962377.1... at 94.29%
67 210aa, >AY962378.1... at 93.81%
68 210aa, >AY962383.1... at 93.33%
69 210aa, >AY962385.1... at 93.81%
70 209aa, >KP284581.1... at 97.61%
71 185aa, >KP268298.1... at 95.14%
72 185aa, >KP268300.1... at 96.22%
73 185aa, >KP268302.1... at 94.05%
74 185aa, >KP268305.1... at 97.30%
75 185aa, >KP268318.1... at 93.51%
76 185aa, >KP268371.1... at 95.68%
77 185aa, >KP268383.1... at 95.68%
78 185aa, >KP268384.1... at 95.14%
79 185aa, >KP268385.1... at 96.22%
80 185aa, >KP268386.1... at 95.68%
81 210aa, >KP268391.1... at 94.76%
82 185aa, >KP268393.1... at 97.30%
83 185aa, >KP268396.1... at 97.30%
>Cluster 1
0 209aa, >U42006.1... at 94.74%

1 185aa, >EU262688.1... at 93.51%
2 210aa, >FJ860136.1... *
3 209aa, >FJ860138.1... at 99.52%
4 209aa, >FJ860140.1... at 99.04%
5 209aa, >AJ579774.1... at 94.26%
6 205aa, >JQ819944.1... at 97.56%
7 205aa, >JQ819963.1... at 98.54%
8 205aa, >JQ819964.1... at 98.05%
9 205aa, >JQ819965.1... at 98.54%
10 205aa, >JQ819967.1... at 98.05%
11 205aa, >JQ819968.1... at 98.05%
12 205aa, >JQ819969.1... at 99.02%
13 205aa, >JQ819971.1... at 99.02%
14 205aa, >JQ819973.1... at 98.54%
15 205aa, >JQ819974.1... at 98.54%
16 205aa, >JQ819976.1... at 99.02%
17 205aa, >JQ819979.1... at 98.54%
18 205aa, >JQ819981.1... at 98.54%
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20 205aa, >JQ819987.1... at 98.54%
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22 205aa, >JQ819991.1... at 98.05%
23 205aa, >JQ819996.1... at 98.54%
24 205aa, >JQ819997.1... at 99.02%
25 205aa, >JQ820000.1... at 98.54%
26 205aa, >JQ820003.1... at 98.54%
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29 205aa, >JQ820010.1... at 96.59%
30 209aa, >KC562143.1... at 95.22%
31 209aa, >KC562144.1... at 95.69%
32 209aa, >KF913717.1... at 94.74%
33 209aa, >KF913718.1... at 95.69%
34 210aa, >AY750733.1... at 94.29%
35 210aa, >AY750738.1... at 94.76%
36 210aa, >AY750741.1... at 95.24%
37 210aa, >AY750744.1... at 93.81%
38 210aa, >AY750750.1... at 94.76%
39 185aa, >KP268290.1... at 94.59%
40 185aa, >KP268297.1... at 94.05%
41 185aa, >KP268313.1... at 95.14%
42 185aa, >KP268315.1... at 95.14%
43 185aa, >KP268320.1... at 95.14%
44 188aa, >KP268323.1... at 94.15%

45 185aa, >KP268335.1... at 95.14%
46 185aa, >KP268336.1... at 94.59%
47 185aa, >KP268343.1... at 94.59%
48 185aa, >KP268346.1... at 94.59%
49 185aa, >KP268349.1... at 94.59%
50 185aa, >KP268359.1... at 95.14%
51 185aa, >KP268364.1... at 95.68%
52 185aa, >KP268376.1... at 94.05%
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2 196aa, >DQ443746.1... at 93.37%
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0 196aa, >AJ297704.1... at 93.88%
1 174aa, >DQ831493.1... at 94.25%
2 174aa, >DQ831496.1... at 95.40%
3 209aa, >AJ298843.1... at 94.26%
4 209aa, >U42019.1... at 98.09%
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7 209aa, >U42024.1... at 98.09%
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16 196aa, >GQ338656.1... at 93.37%
17 196aa, >GQ338659.1... at 95.41%
18 209aa, >AJ579762.1... at 98.56%
19 209aa, >AJ579764.1... at 99.52%
20 209aa, >AJ579766.1... at 99.04%
21 209aa, >AJ579768.1... at 94.26%
22 210aa, >JN384024.1... *
23 209aa, >JQ039913.1... at 96.17%
24 205aa, >JQ819945.1... at 93.66%
25 205aa, >JQ819946.1... at 93.17%
26 205aa, >JQ819954.1... at 94.15%
27 209aa, >AY652902.1... at 94.26%
28 209aa, >AY652906.1... at 98.56%
29 209aa, >KF724132.1... at 99.52%
30 209aa, >KF724135.1... at 99.52%

31 209aa, >KF724136.1... at 99.04%
 32 209aa, >KF724137.1... at 99.04%
 33 209aa, >KF724141.1... at 99.04%
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 36 209aa, >KC774017.1... at 100.00%
 37 210aa, >AY750736.1... at 93.81%
 38 210aa, >AY750747.1... at 93.33%
 39 210aa, >AY962349.1... at 94.76%
 40 210aa, >AY962357.1... at 93.33%
 41 210aa, >AY962358.1... at 94.29%
 42 210aa, >AY962362.1... at 94.29%
 43 210aa, >AY962373.1... at 93.33%
 44 210aa, >AY962375.1... at 93.81%
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 1 185aa, >EU262682.1... at 99.46%
 2 185aa, >EU262683.1... at 98.92%
 3 185aa, >EU262686.1... at 96.76%
 4 185aa, >EU262689.1... at 98.92%
 5 209aa, >FJ860142.1... at 97.61%
 6 209aa, >GQ475049.1... at 98.56%
 7 209aa, >GQ475051.1... at 98.09%
 8 209aa, >GQ475052.1... at 99.04%
 9 196aa, >GQ338657.1... at 98.98%
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 12 210aa, >KC202886.1... *
 13 209aa, >AY652901.1... at 95.69%
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 19 210aa, >AY962351.1... at 98.10%
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 21 210aa, >AY962361.1... at 98.57%
 22 196aa, >DQ443747.1... at 98.98%
 23 196aa, >DQ443748.1... at 98.47%
 24 196aa, >DQ443749.1... at 98.47%

25 196aa, >DQ443750.1... at 98.98%
26 196aa, >DQ443751.1... at 99.49%
27 185aa, >KP268301.1... at 96.22%
28 185aa, >KP268310.1... at 95.68%
29 185aa, >KP268368.1... at 95.68%
30 185aa, >KP268372.1... at 95.68%
>Cluster 5
0 210aa, >AY962355.1... *
>Cluster 6
0 205aa, >JQ819943.1... at 95.12%
1 205aa, >JQ819947.1... at 95.12%
2 205aa, >JQ819948.1... at 94.15%
3 210aa, >AY962360.1... *
4 210aa, >AY962365.1... at 96.19%
5 210aa, >AY962382.1... at 97.62%
6 210aa, >AY962386.1... at 97.62%
7 210aa, >AY962388.1... at 96.67%
>Cluster 7
0 209aa, >AJ579767.1... *
>Cluster 8
0 209aa, >AJ579769.1... *
>Cluster 9
0 209aa, >AJ579772.1... *
1 209aa, >KC774016.1... at 97.61%
2 185aa, >KP268355.1... at 97.84%
3 185aa, >KP268357.1... at 96.76%
4 185aa, >KP268361.1... at 98.38%
>Cluster 10
0 209aa, >KC562141.1... *
1 209aa, >KC562145.1... at 99.04%
2 209aa, >KC562146.1... at 97.13%
3 209aa, >KF913715.1... at 96.65%
4 209aa, >KJ094313.1... at 96.65%
>Cluster 11
0 209aa, >AY652904.1... *
>Cluster 12
0 209aa, >KP284580.1... *
>Cluster 13
0 206aa, >KC202889.1... *
>Cluster 14
0 205aa, >JQ819952.1... *
>Cluster 15
0 200aa, >KC202888.1... *
>Cluster 16

0 196aa, >DQ443744.1... *

>Cluster 17

0 185aa, >KP268377.1... *

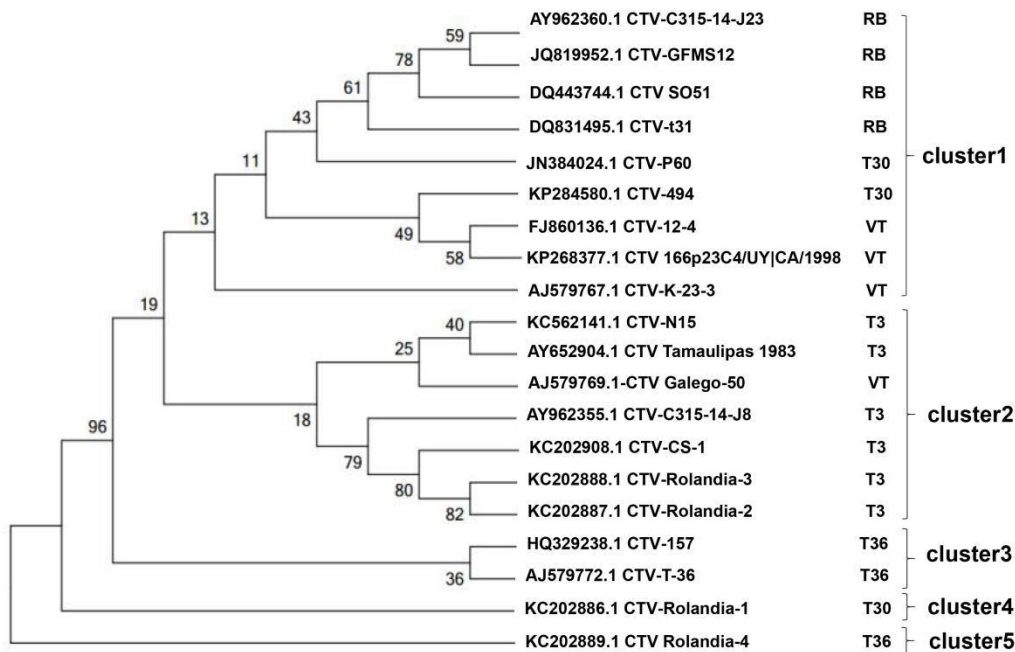
>Cluster 18

0 174aa, >DQ831495.1... *

>Cluster 19

0 170aa, >KC202887.1... *

Supplemental Data 4-3 : The phylogenetic tree of p23 sequences



Supplemental Data 4-4 : p23 amino acid sequence alignment

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Section 3

| | (109) | 109 | 120 | 130 | 140 | 150 | 162 |
|------------------|-------|----------------------------|------|-----|-------------------|------------------|----------|
| AJ579767.1 (100) | | LMHDPVKYLNKRKARAFSNAEMFAIE | ELV | LH | TKERQLAVDLAAEREK | TRLARRHP | |
| AY962360.1 (100) | | LMHDPVKYLNKRKARAFSNAEMFAIE | ELV | LY | TKEKQLAVDLAAEREK | TRLARRHP | |
| JQ819952.1 (100) | | LMHDPVNYLNKRKARAFSNAEMFAIE | ELF | LY | TKEKQLAVDLAAEREK | TRLARRHP | |
| DQ443744.1 (93) | | LMHDPVKYLNKRKARAFSNAEMFAIE | ELV | LY | TKEKQLAVDLAAEREK | TRLARRHP | |
| DQ831495.1 (81) | | LMHDPVKYLNKRKARAFSNAETFAID | LV | LY | TKEKQLAVDLAAEREK | TRLARRHP | |
| JN384024.1 (100) | | LMHDPVKYLNKRKARAFSNAEMFAIE | ELV | SY | TKERQLAVDLAAEREK | TRLARRHP | |
| KP284580.1 (100) | | LMHDPVKYLNKRKARAFSNAETFAIE | ELV | M | H | TKERQLAVDLAAEREK | TRLARRHP |
| AJ579772.1 (100) | | LMHDPVKYLNKRKARAFSNAETFAID | LV | MY | TKERQLAIDLAAEREK | TRLARRHP | |
| HQ329238.1 (100) | | LMHDPVKYLNKGKARPFSAEMFAID | LV | M | H | TKERQLAVNLAAREK | TRLARRHP |
| AY652904.1 (100) | | LMHDPVKYLNKGKARAFSNAEMFAID | LV | MY | TKEKQLADDLAAEREK | TRLARRHP | |
| KC202886.1 (100) | | LMHDPVKYLNKGKARAFSNAEMFAID | LV | MY | TKEKQLAVNLAAREK | TRLARRHP | |
| KC202889.1 (109) | | LMHDPVKYLNKGKARAFSNAEMFAID | LV | MY | TKEKQLAVNLAAREK | TRLARRHP | |
| AJ579769.1 (100) | | LMHNPVEYLNKGKARAFSNAEMFAID | LV | MY | TKEKQSAVNLAAREK | TRLARRHP | |
| AY962355.1 (100) | | LMHDPVEYLSKRKARAFSNAEMFAID | LV | MY | TKERQLAVDLAAEREK | TRLARRHP | |
| KC202888.1 (100) | | LMHDPVKYLSKRKARAFSNAETI | -AID | LV | MY | TKERQLAVDLAAEREK | TRLALNTQ |
| KC202887.1 (60) | | LMHDPVKYLSKRKARAFSNAEMFAID | LV | MY | TKERQLAVDLAAEREK | TRLARKHP | |
| KC202908.1 (100) | | LMHDPVKYLSKRKARAFSNAEMFAID | LV | MY | TKERQLAVDLAAEREK | TRLARKHP | |
| FJ860136.1 (100) | | LMHDPVKYLNKRKARAFSNAEMFAID | LV | M | H | TKERQLAVDLAAEREK | TRLARRHP |
| KP268377.1 (100) | | LMHDPVKYLNKRKARAFSNAEMFAID | LV | M | H | TKERQLAVDLSAEREK | RLARRHP |
| KC562141.1 (100) | | LMHDPVKYLNKGKARAFSNAEMFAID | LV | MY | TKERQLAVNLTAAEREK | TRLARRHP | |

Section 4

| | (163) | 163 | 170 | 180 | 190 | 200 | 216 |
|------------------|-------|-----------------------|---------------------|---------------------------|---------------------------|-----|-----|
| AJ579767.1 (154) | | MRSPEETPEHYKFGT | TAKAML | PDVNAVDV | GDNEETSSEYPVSLSVSGGVLREHH | | |
| AY962360.1 (154) | | MRSPEETPEHYKFGLT | TAKAML | PELNAVGV | GDNKDTSSEYPVSLSVSGGVLREHH | | |
| JQ819952.1 (154) | | MRSPEETPEHYKFGMTAKA | ILPELNAVGV | GDNEDTSSDFPVFLSVSGGVLRE-- | | | |
| DQ443744.1 (147) | | MRSPEETPEYKFGMTAKAML | PELNAVVDV | GDNEETSSEYPVSLSFAGVVL---- | | | |
| DQ831495.1 (135) | | MRSPEETPEHYKFGMTAKAML | PEFNAVGV | GDNEDTSSEYP----- | | | |
| JN384024.1 (154) | | IR | SPEETPEHYKFGMTAKAML | PDINAVDV | GDNEETSSEYPVSLSVSGGVLREHH | | |
| KP284580.1 (154) | | MRSPEETPEHYKFGITAKAML | PDINAIDV | GDNEDTSSEYPVSLSVSGVLREHH | | | |
| AJ579772.1 (154) | | MRSPEETPEYKFGRTAKAML | PDINAVDV | GDNEETSSEYPVSLSVSGGVLREHH | | | |
| HQ329238.1 (154) | | MRSPEETPEYKFGMTAKAML | PDINAINV | GDNEDTSSEYPVSLSVSGGVLREHH | | | |
| AY652904.1 (154) | | MRSPEETPEHYKFGMTAKAM | IPDIDVVYV | GDNEDTSSEYPVSLGVS | DGVLREHH | | |
| KC202886.1 (154) | | MRSPEETPEFYKFGITAKAML | PNINAVDV | GDNEDTSSEYPVSLSVSD | GVLRREHH | | |
| KC202889.1 (163) | | MRSPEETPEFYKFGITAKAML | PNINAVDV | GDNEDTSSETEESEV----- | | | |
| AJ579769.1 (154) | | MRSPEETPEHYKFGMTAKATL | PDINAVDV | GDNEDTSSEYPVSLSVSNGVLREHH | | | |
| AY962355.1 (154) | | MRSPEETPEHYKFGLTAKAML | PELNAVGV | GDNEDTSSEYPVSLSVSGGVLREHH | | | |
| KC202888.1 (153) | | CVLR-KKLRNIKFGMTAKAML | PDINIVDV | GDNEDTSSEYRKSESFWRVS---- | | | |
| KC202887.1 (114) | | MRSPEETPEHYKFGMTAKAML | PDINIVDVGE | TTKTLFGDGVSLSVSGGVLREHH | | | |
| KC202908.1 (154) | | MRSPEETPEHYKFGMTAKAML | PDINVVDV | GDNEDTSSEYPVSLST | SGGVLREHH | | |
| FJ860136.1 (154) | | MRSPEETPEHYKFGITAKAML | PDIDAIDV | GDNEDTSSEYPVSLSVSGGVLREHH | | | |
| KP268377.1 (154) | | MRSPEETPEHYKFGVTAKAML | PDINAIDV | GDN----- | | | |
| KC562141.1 (154) | | MRSPEETPEHYKFGMTAKV | MLPDIDAVIDV | DDNEDTLSECPVNLSVSGGVLREHH | | | |

(217) [217](#) [222](#)
AJ579767.1 (208) [FI](#)----
AY962360.1 (208) [FIL](#)---
JQ819952.1 (206) -----
DQ443744.1 (197) -----
DQ831495.1 (175) -----
JN384024.1 (208) [FIL](#)---
KP284580.1 (208) [FI](#)----
AJ579772.1 (208) [FI](#)----
HQ329238.1 (208) [FIL](#)---
AY652904.1 (208) [FV](#)----
KC202886.1 (208) [FIL](#)---
KC202889.1 (207) -----
AJ579769.1 (208) [FI](#)----
AY962355.1 (208) [FIL](#)---
KC202888.1 (201) -----
KC202887.1 (168) [FIL](#)---
KC202908.1 (208) [FIRSNH](#)
FJ860136.1 (208) [FIL](#)---
KP268377.1 (186) -----
KC562141.1 (208) [FI](#)----