Table S 1 Occurrence of domain d apical sequences in filtered sets of full genomes of different enterovirus species and serotypes. Tetraloops CCCG, UGUG, CAUG and UUGG that were unique for species *Enterovirus A, B, C* and *D* and were lost upon filtration, were added and are shown in blue. The gradient coloring from red to green represents abundance heat map for the genomes with different domain d sequence.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Loop sequence | Enterovirus | | | | | | | | | | | | Rhinovirus | | |  |  |
| A | | | B | C | | D | E | F | G | H | J | A | B | C |  |  |
| all | EV-71 | EV-71 C4 genotype | all | PV |
| Triloops | | | | | | | | | | | | | | | |  |  |
| CCG |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  | 1 |
| CAG |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  | 2 |
| UCU |  |  |  |  |  |  |  |  |  |  |  |  | 1 | 5 |  |  | 11 |
| UUU |  |  |  |  |  |  |  |  |  |  |  |  |  | 17 |  |  | 31 |
| UAU |  |  |  |  |  |  |  |  |  |  |  |  |  | 8 |  |  | 51 |
| AUU |  |  |  |  |  |  |  |  |  |  |  |  |  | 4 |  |  | 132 |
| UGU |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |
| UUC |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |
| GAU |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |  |
| YNMG Tetraloops | | | | | | | | | | | | | | | |  |  |
| UACG | 85 | 28 |  | 51 | 106 | 64 |  |  |  | 3 | 1 | 2 | 38 |  | 15 |  |  |
| UGCG | 114 | 2 |  | 31 | 43 | 31 |  |  |  | 2 | 1 |  | 2 |  |  |  |  |
| UUCG | 16 | 16 | 14 | 3 |  |  | 50 |  |  |  |  |  | 6 |  | 6 |  |  |
| UCCG | 2 |  |  | 11 | 1 | 1 |  |  |  |  |  |  | 53 |  | 10 |  |  |
| CACG | 48 | 28 |  | 98 | 101 | 54 | 1 |  |  | 1 |  | 2 | 5 |  |  |  |  |
| CGCG | 3 | 2 |  | 3 | 13 | 6 |  |  |  | 1 |  |  |  |  |  |  |  |
| CUCG | 132 | 127 | 126 | 5 | 2 |  | 2 |  |  |  |  |  | 1 |  | 3 |  |  |
| CCCG | 40 | 39 | 28 | 16 | 1 |  | 1 |  |  |  |  |  | 12 |  | 2 |  |  |
| UAAG | 10 | 10 |  | 2 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| UGAG | 22 | 22 |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| UUAG |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| UCAG |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CAAG | 1 | 1 |  | 4 | 1 |  |  |  |  |  |  | 1 |  |  |  |  |  |
| CGAG | 1 |  |  |  | 2 |  |  |  |  |  |  |  |  |  |  |  |  |
| CUAG |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CCAG |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| YACG |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| YNUG Tetraloops | | | | | | | | | | | | | | | |  |  |
| UAUG | 54 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| UGUG | 1 |  |  | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| UUUG |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |
| UCUG |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CAUG |  |  |  | 9 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| CGUG | 1 |  |  | 3 | 2 |  |  |  |  |  |  |  |  |  |  |  |  |
| CUUG | 34 | 34 | 34 | 3 |  |  | 2 |  |  |  |  |  |  |  |  |  |  |
| CCUG | 1 | 1 | 1 | 1 | 1 |  |  |  |  |  |  |  |  |  |  |  |  |
| GYYA Tetraloops | | | | | | | | | | | | | | | |  |  |
| GCUA |  |  |  |  |  |  |  | 2 | 13 |  |  |  |  |  |  |  |  |
| GCCA |  |  |  |  |  |  |  |  | 3 |  |  |  |  |  |  |  |  |
| GUUA |  |  |  |  |  |  |  | 2 | 3 | 1 |  |  |  |  |  |  |  |
| Other tetraloops | | | | | | | | | | | | | | | |  |  |
| UUGG |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |  |
| CUUC |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1 |  |  |
| AUUA |  |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |
| Pentaloops | | | | | | | | | | | | | | | |  |  |
| GCUUA |  |  |  |  |  |  |  | 7 |  |  |  |  |  |  |  |  |  |
| GUUUA |  |  |  |  |  |  |  | 2 |  |  |  |  |  |  |  |  |  |
| GCCUA |  |  |  |  |  |  |  | 4 |  |  |  |  |  |  |  |  |  |
| GCGUA |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |
| GAUUA |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |
| GUCUA |  |  |  |  |  |  |  | 1 |  |  |  |  |  |  |  |  |  |