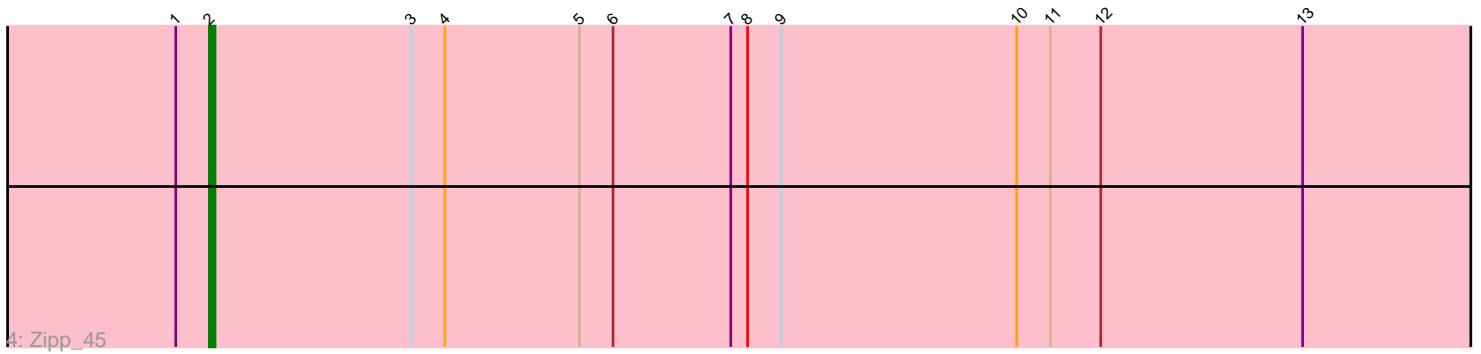
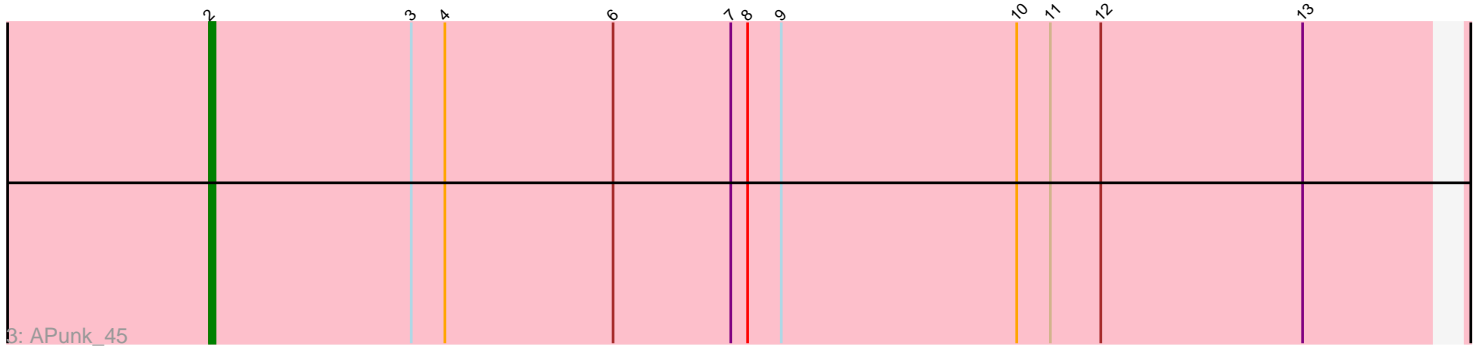
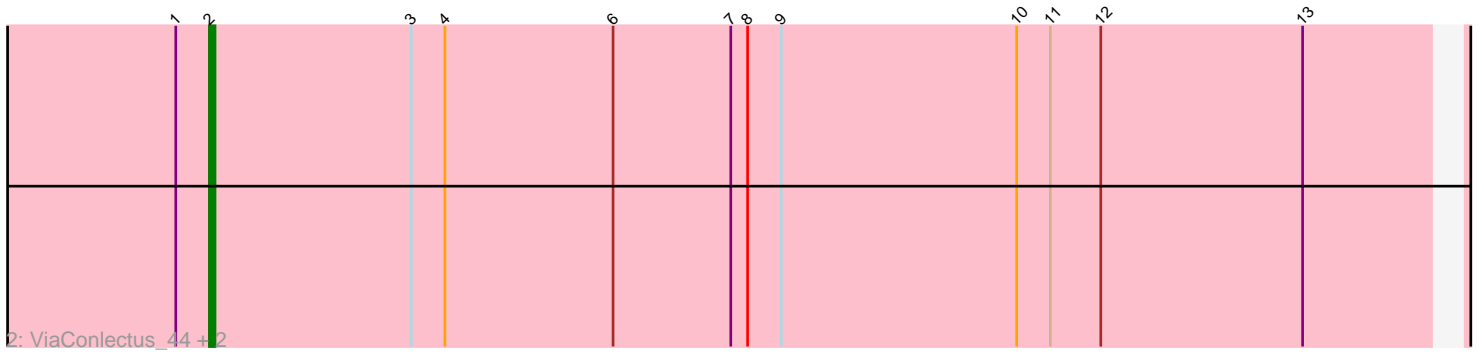
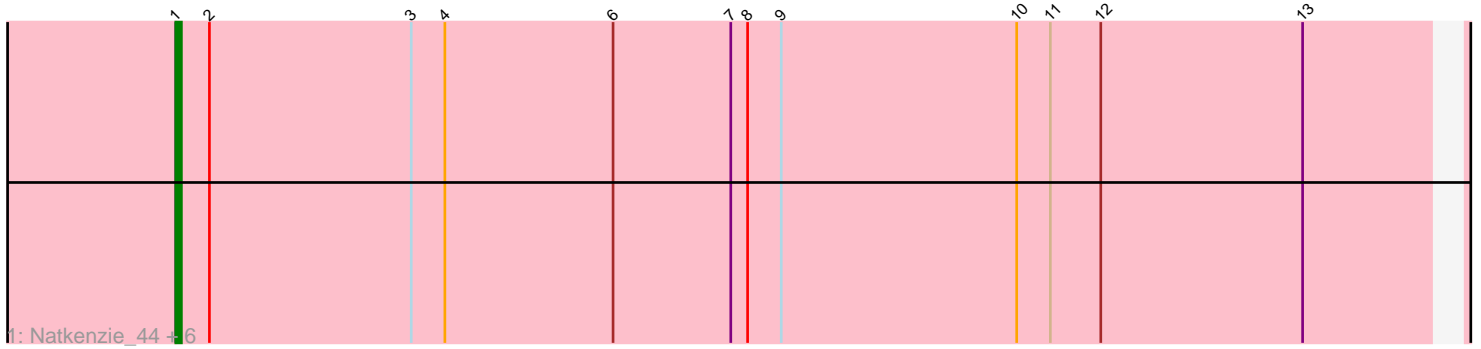


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

## Pham 167155 Report

This analysis was run 07/09/24 on database version 566.

Pham number 167155 has 12 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Natkenzie\_44, Tardus\_45, Abblin\_44, Verity\_44, Scioto\_45, DoctorFroggo\_44, Delrey21\_44
- Track 2 : ViaConlectus\_44, Sampson\_44, Zitch\_47
- Track 3 : APunk\_45
- Track 4 : Zipp\_45

### ***Summary of Final Annotations (See graph section above for start numbers):***

The start number called the most often in the published annotations is 2, it was called in 5 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- APunk\_45, Sampson\_44, ViaConlectus\_44, Zipp\_45, Zitch\_47,

Genes that have the "Most Annotated" start but do not call it:

- Abblin\_44, Delrey21\_44, DoctorFroggo\_44, Natkenzie\_44, Scioto\_45, Tardus\_45, Verity\_44,

Genes that do not have the "Most Annotated" start:

- 

### **Summary by start number:**

Start 1:

- Found in 11 of 12 ( 91.7% ) of genes in pham
- Manual Annotations of this start: 4 of 9
- Called 63.6% of time when present
- Phage (with cluster) where this start called: Abblin\_44 (DE4), Delrey21\_44 (DE4), DoctorFroggo\_44 (DE4), Natkenzie\_44 (DE4), Scioto\_45 (DE4), Tardus\_45 (DE4), Verity\_44 (DE4),

Start 2:

- Found in 12 of 12 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 5 of 9

- Called 41.7% of time when present
- Phage (with cluster) where this start called: APunk\_45 (DE4), Sampson\_44 (DE4), ViaConlectus\_44 (DE4), Zipp\_45 (DE4), Zitch\_47 (DE4),

### Summary by clusters:

There is one cluster represented in this pham: DE4

Info for manual annotations of cluster DE4:

- Start number 1 was manually annotated 4 times for cluster DE4.
- Start number 2 was manually annotated 5 times for cluster DE4.

### Gene Information:

Gene: APunk\_45 Start: 39354, Stop: 39626, Start Num: 2

Candidate Starts for APunk\_45:

(Start: 2 @39354 has 5 MA's), (3, 39390), (4, 39396), (6, 39426), (7, 39447), (8, 39450), (9, 39456), (10, 39498), (11, 39504), (12, 39513), (13, 39549),

Gene: Abblin\_44 Start: 39885, Stop: 40163, Start Num: 1

Candidate Starts for Abblin\_44:

(Start: 1 @39885 has 4 MA's), (Start: 2 @39891 has 5 MA's), (3, 39927), (4, 39933), (6, 39963), (7, 39984), (8, 39987), (9, 39993), (10, 40035), (11, 40041), (12, 40050), (13, 40086),

Gene: Delrey21\_44 Start: 40650, Stop: 40928, Start Num: 1

Candidate Starts for Delrey21\_44:

(Start: 1 @40650 has 4 MA's), (Start: 2 @40656 has 5 MA's), (3, 40692), (4, 40698), (6, 40728), (7, 40749), (8, 40752), (9, 40758), (10, 40800), (11, 40806), (12, 40815), (13, 40851),

Gene: DoctorFroggo\_44 Start: 40650, Stop: 40928, Start Num: 1

Candidate Starts for DoctorFroggo\_44:

(Start: 1 @40650 has 4 MA's), (Start: 2 @40656 has 5 MA's), (3, 40692), (4, 40698), (6, 40728), (7, 40749), (8, 40752), (9, 40758), (10, 40800), (11, 40806), (12, 40815), (13, 40851),

Gene: Natkenzie\_44 Start: 39885, Stop: 40163, Start Num: 1

Candidate Starts for Natkenzie\_44:

(Start: 1 @39885 has 4 MA's), (Start: 2 @39891 has 5 MA's), (3, 39927), (4, 39933), (6, 39963), (7, 39984), (8, 39987), (9, 39993), (10, 40035), (11, 40041), (12, 40050), (13, 40086),

Gene: Sampson\_44 Start: 39836, Stop: 40108, Start Num: 2

Candidate Starts for Sampson\_44:

(Start: 1 @39830 has 4 MA's), (Start: 2 @39836 has 5 MA's), (3, 39872), (4, 39878), (6, 39908), (7, 39929), (8, 39932), (9, 39938), (10, 39980), (11, 39986), (12, 39995), (13, 40031),

Gene: Scioto\_45 Start: 39886, Stop: 40164, Start Num: 1

Candidate Starts for Scioto\_45:

(Start: 1 @39886 has 4 MA's), (Start: 2 @39892 has 5 MA's), (3, 39928), (4, 39934), (6, 39964), (7, 39985), (8, 39988), (9, 39994), (10, 40036), (11, 40042), (12, 40051), (13, 40087),

Gene: Tardus\_45 Start: 39240, Stop: 39518, Start Num: 1

Candidate Starts for Tardus\_45:

(Start: 1 @39240 has 4 MA's), (Start: 2 @39246 has 5 MA's), (3, 39282), (4, 39288), (6, 39318), (7, 39339), (8, 39342), (9, 39348), (10, 39390), (11, 39396), (12, 39405), (13, 39441),

Gene: Verity\_44 Start: 40650, Stop: 40928, Start Num: 1

Candidate Starts for Verity\_44:

(Start: 1 @40650 has 4 MA's), (Start: 2 @40656 has 5 MA's), (3, 40692), (4, 40698), (6, 40728), (7, 40749), (8, 40752), (9, 40758), (10, 40800), (11, 40806), (12, 40815), (13, 40851),

Gene: ViaConlectus\_44 Start: 38526, Stop: 38798, Start Num: 2

Candidate Starts for ViaConlectus\_44:

(Start: 1 @38520 has 4 MA's), (Start: 2 @38526 has 5 MA's), (3, 38562), (4, 38568), (6, 38598), (7, 38619), (8, 38622), (9, 38628), (10, 38670), (11, 38676), (12, 38685), (13, 38721),

Gene: Zipp\_45 Start: 40565, Stop: 40843, Start Num: 2

Candidate Starts for Zipp\_45:

(Start: 1 @40559 has 4 MA's), (Start: 2 @40565 has 5 MA's), (3, 40601), (4, 40607), (5, 40631), (6, 40637), (7, 40658), (8, 40661), (9, 40667), (10, 40709), (11, 40715), (12, 40724), (13, 40760),

Gene: Zitch\_47 Start: 38681, Stop: 38953, Start Num: 2

Candidate Starts for Zitch\_47:

(Start: 1 @38675 has 4 MA's), (Start: 2 @38681 has 5 MA's), (3, 38717), (4, 38723), (6, 38753), (7, 38774), (8, 38777), (9, 38783), (10, 38825), (11, 38831), (12, 38840), (13, 38876),