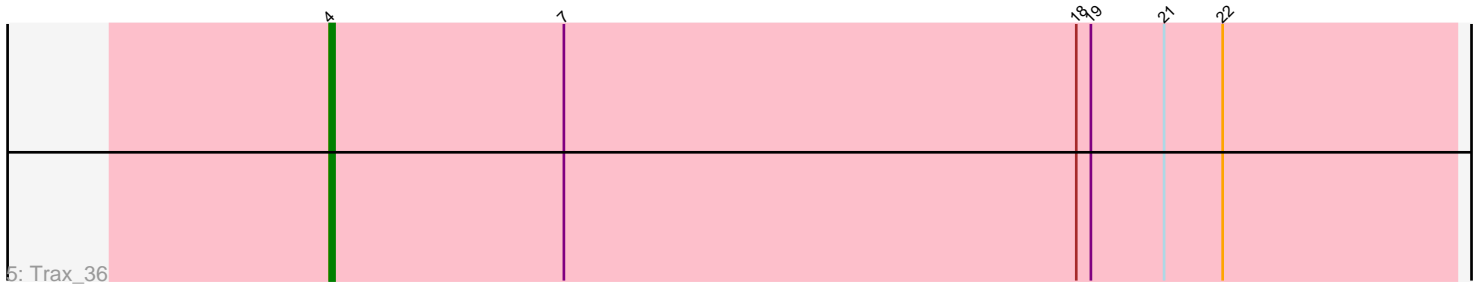
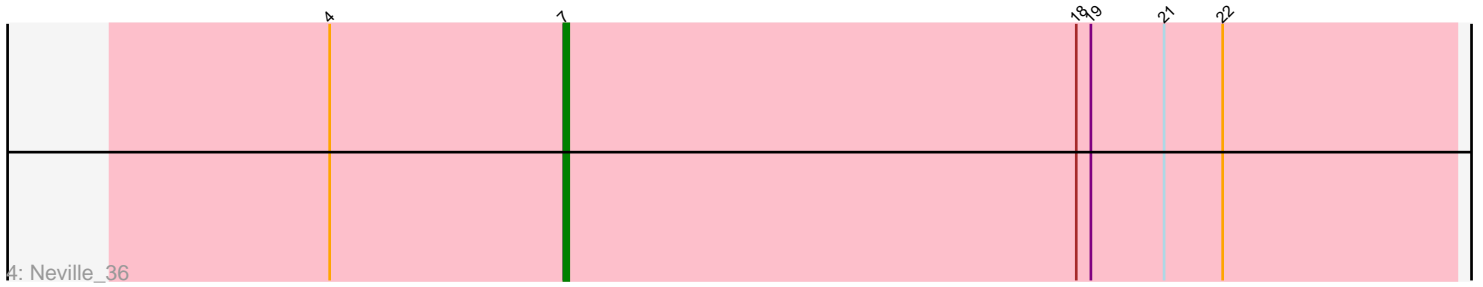
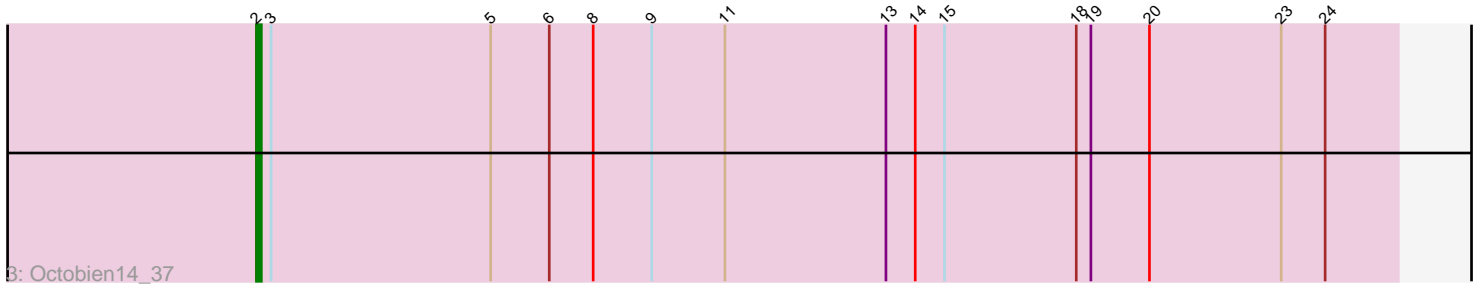
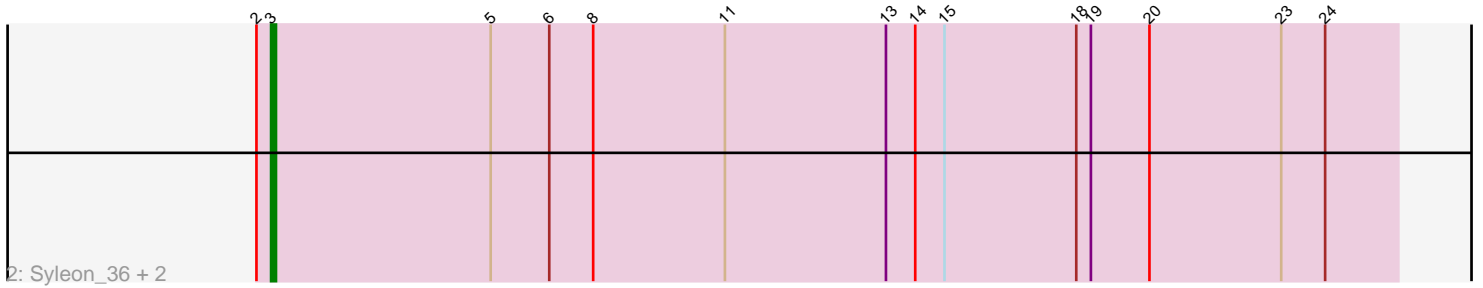
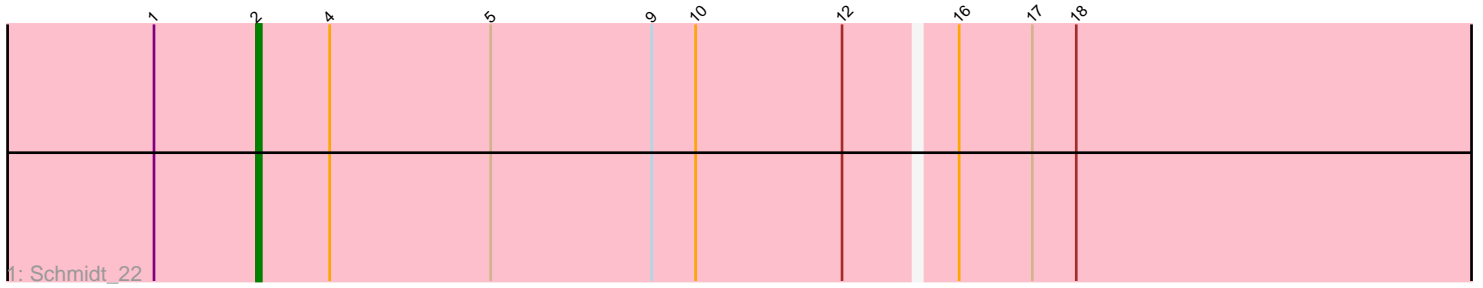


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 216883 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216883 has 7 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Schmidt\_22
- Track 2 : Syleon\_36, Kudrefre\_35, Sephiroth\_36
- Track 3 : Octobien14\_37
- Track 4 : Neville\_36
- Track 5 : Trax\_36

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

The start number called the most often in the published annotations is 3, it was called in 3 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Kudrefre\_35, Sephiroth\_36, Syleon\_36,

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

- Octobien14\_37,

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

- Neville\_36, Schmidt\_22, Trax\_36,

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

Start 2:

- Found in 5 of 7 ( 71.4% ) of genes in pham
- Manual Annotations of this start: 2 of 7
- Called 40.0% of time when present
- Phage (with cluster) where this start called: Octobien14\_37 (DU1), Schmidt\_22 (CU4),

Start 3:

- Found in 4 of 7 ( 57.1% ) of genes in pham
- Manual Annotations of this start: 3 of 7
- Called 75.0% of time when present

- Phage (with cluster) where this start called: Kudefre\_35 (DU1), Sephiroth\_36 (DU1), Syleon\_36 (DU1),

Start 4:

- Found in 3 of 7 ( 42.9% ) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Trax\_36 (DU2),

Start 7:

- Found in 2 of 7 ( 28.6% ) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Neville\_36 (DU2),

### **Summary by clusters:**

There are 3 clusters represented in this pham: DU1, DU2, CU4,

Info for manual annotations of cluster CU4:

- Start number 2 was manually annotated 1 time for cluster CU4.

Info for manual annotations of cluster DU1:

- Start number 2 was manually annotated 1 time for cluster DU1.
- Start number 3 was manually annotated 3 times for cluster DU1.

Info for manual annotations of cluster DU2:

- Start number 4 was manually annotated 1 time for cluster DU2.
- Start number 7 was manually annotated 1 time for cluster DU2.

### **Gene Information:**

Gene: Kudefre\_35 Start: 29727, Stop: 29957, Start Num: 3

Candidate Starts for Kudefre\_35:

(Start: 2 @29724 has 2 MA's), (Start: 3 @29727 has 3 MA's), (5, 29772), (6, 29784), (8, 29793), (11, 29820), (13, 29853), (14, 29859), (15, 29865), (18, 29892), (19, 29895), (20, 29907), (23, 29934), (24, 29943),

Gene: Neville\_36 Start: 31076, Stop: 31258, Start Num: 7

Candidate Starts for Neville\_36:

(Start: 4 @31028 has 1 MA's), (Start: 7 @31076 has 1 MA's), (18, 31181), (19, 31184), (21, 31199), (22, 31211),

Gene: Octobien14\_37 Start: 30411, Stop: 30644, Start Num: 2

Candidate Starts for Octobien14\_37:

(Start: 2 @30411 has 2 MA's), (Start: 3 @30414 has 3 MA's), (5, 30459), (6, 30471), (8, 30480), (9, 30492), (11, 30507), (13, 30540), (14, 30546), (15, 30552), (18, 30579), (19, 30582), (20, 30594), (23, 30621), (24, 30630),

Gene: Schmidt\_22 Start: 17098, Stop: 17373, Start Num: 2

Candidate Starts for Schmidt\_22:

(1, 17077), (Start: 2 @17098 has 2 MA's), (Start: 4 @17113 has 1 MA's), (5, 17146), (9, 17179), (10, 17188), (12, 17218), (16, 17239), (17, 17254), (18, 17263),

Gene: Sephiroth\_36 Start: 29898, Stop: 30128, Start Num: 3

Candidate Starts for Sephiroth\_36:

(Start: 2 @29895 has 2 MA's), (Start: 3 @29898 has 3 MA's), (5, 29943), (6, 29955), (8, 29964), (11, 29991), (13, 30024), (14, 30030), (15, 30036), (18, 30063), (19, 30066), (20, 30078), (23, 30105), (24, 30114),

Gene: Syleon\_36 Start: 29820, Stop: 30050, Start Num: 3

Candidate Starts for Syleon\_36:

(Start: 2 @29817 has 2 MA's), (Start: 3 @29820 has 3 MA's), (5, 29865), (6, 29877), (8, 29886), (11, 29913), (13, 29946), (14, 29952), (15, 29958), (18, 29985), (19, 29988), (20, 30000), (23, 30027), (24, 30036),

Gene: Trax\_36 Start: 31334, Stop: 31564, Start Num: 4

Candidate Starts for Trax\_36:

(Start: 4 @31334 has 1 MA's), (Start: 7 @31382 has 1 MA's), (18, 31487), (19, 31490), (21, 31505), (22, 31517),