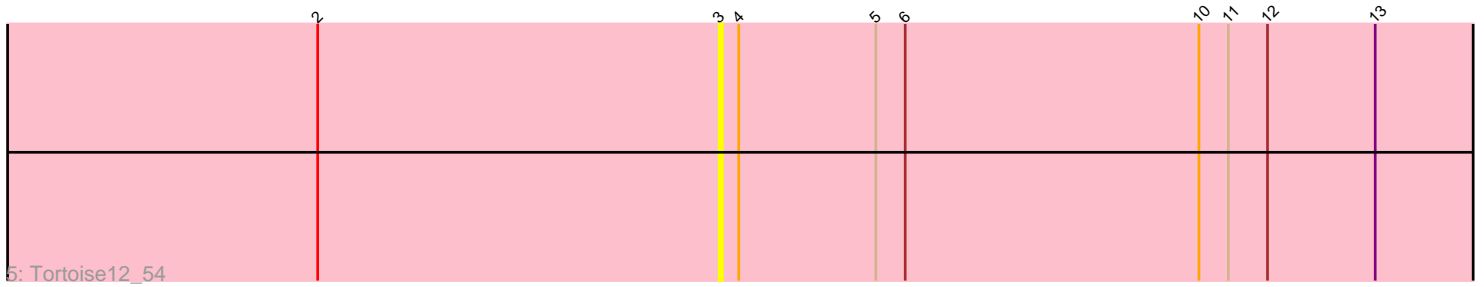
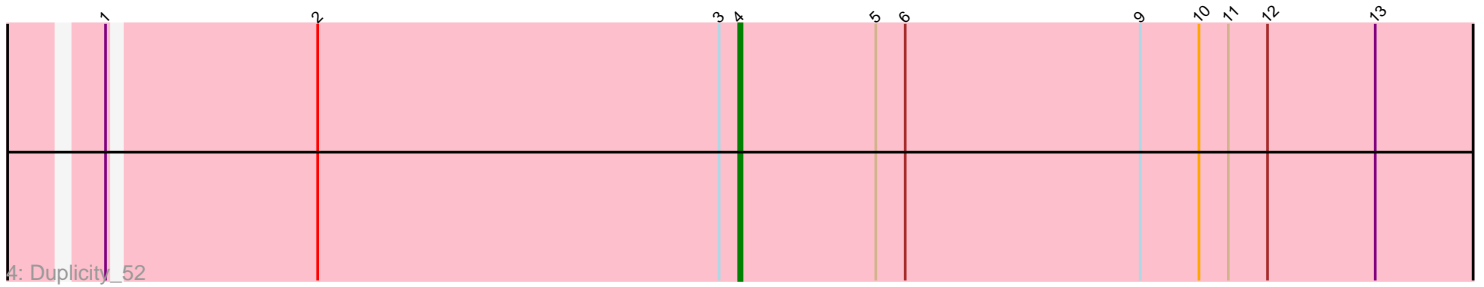
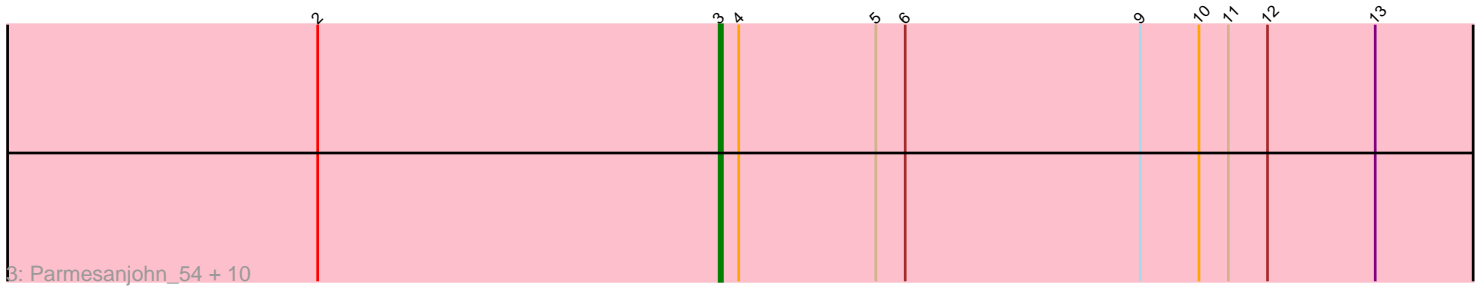
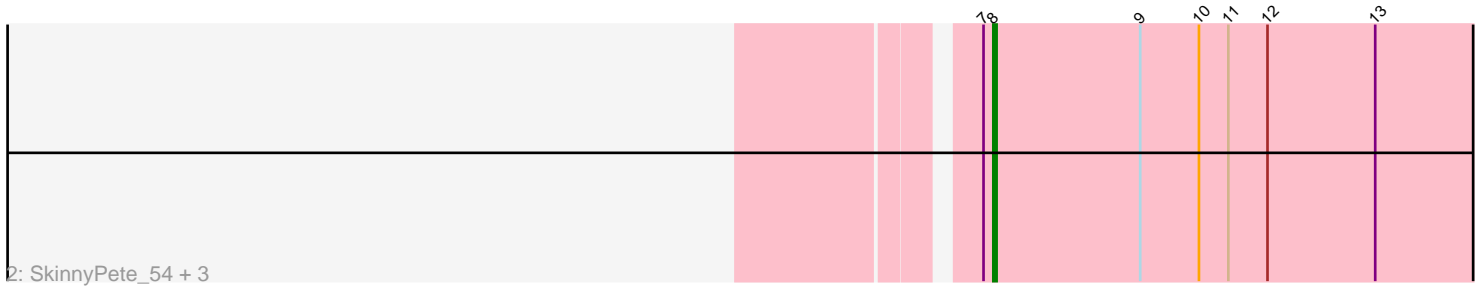
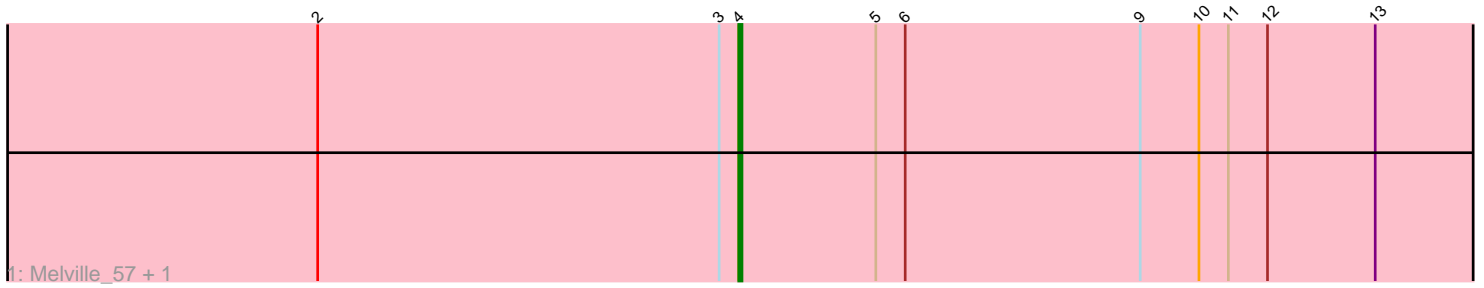


Pham 221810



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 221810 Report

This analysis was run 03/28/25 on database version 593.

Pham number 221810 has 19 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Melville\_57, Fulbright\_53
- Track 2 : SkinnyPete\_54, Aloeri\_78, Awesomesauce\_75, ChickenDinner\_78
- Track 3 : Parmesanjohn\_54, Carcharodon\_54, Schnauzer\_55, Silvafighter\_55, Pipsqueaks\_55, Phloss\_52, Magsby\_54, Xerxes\_54, Gex\_54, Chewbacca\_56, Smurph\_54
- Track 4 : Duplicity\_52
- Track 5 : Tortoise12\_54

### ***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 11 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Carcharodon\_54, Chewbacca\_56, Gex\_54, Magsby\_54, Parmesanjohn\_54, Phloss\_52, Pipsqueaks\_55, Schnauzer\_55, Silvafighter\_55, Smurph\_54, Tortoise12\_54, Xerxes\_54,

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

- Duplicity\_52, Fulbright\_53, Melville\_57,

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

- Aloeri\_78, Awesomesauce\_75, ChickenDinner\_78, SkinnyPete\_54,

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

Start 3:

- Found in 15 of 19 ( 78.9% ) of genes in pham
- Manual Annotations of this start: 11 of 16
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Carcharodon\_54 (N), Chewbacca\_56 (N), Gex\_54 (N), Magsby\_54 (N), Parmesanjohn\_54 (N), Phloss\_52 (N), Pipsqueaks\_55 (N), Schnauzer\_55 (N), Silvafighter\_55 (N), Smurph\_54 (N), Tortoise12\_54 (N), Xerxes\_54 (N),

Start 4:

- Found in 15 of 19 ( 78.9% ) of genes in pham
- Manual Annotations of this start: 3 of 16
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Duplicity\_52 (N), Fulbright\_53 (N), Melville\_57 (N),

Start 8:

- Found in 4 of 19 ( 21.1% ) of genes in pham
- Manual Annotations of this start: 2 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aloeri\_78 (F1), Awesomesauce\_75 (F1), ChickenDinner\_78 (F1), SkinnyPete\_54 (N),

**Summary by clusters:**

There are 2 clusters represented in this pham: F1, N,

Info for manual annotations of cluster F1:

- Start number 8 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster N:

- Start number 3 was manually annotated 11 times for cluster N.
- Start number 4 was manually annotated 3 times for cluster N.
- Start number 8 was manually annotated 1 time for cluster N.

**Gene Information:**

Gene: Aloeri\_78 Start: 46783, Stop: 46998, Start Num: 8

Candidate Starts for Aloeri\_78:

(7, 46780), (Start: 8 @46783 has 2 MA's), (9, 46828), (10, 46846), (11, 46855), (12, 46867), (13, 46900),

Gene: Awesomesauce\_75 Start: 45866, Stop: 46081, Start Num: 8

Candidate Starts for Awesomesauce\_75:

(7, 45863), (Start: 8 @45866 has 2 MA's), (9, 45911), (10, 45929), (11, 45938), (12, 45950), (13, 45983),

Gene: Carcharodon\_54 Start: 35861, Stop: 36160, Start Num: 3

Candidate Starts for Carcharodon\_54:

(2, 35738), (Start: 3 @35861 has 11 MA's), (Start: 4 @35867 has 3 MA's), (5, 35909), (6, 35918), (9, 35990), (10, 36008), (11, 36017), (12, 36029), (13, 36062),

Gene: Chewbacca\_56 Start: 35861, Stop: 36160, Start Num: 3

Candidate Starts for Chewbacca\_56:

(2, 35738), (Start: 3 @35861 has 11 MA's), (Start: 4 @35867 has 3 MA's), (5, 35909), (6, 35918), (9, 35990), (10, 36008), (11, 36017), (12, 36029), (13, 36062),

Gene: ChickenDinner\_78 Start: 46783, Stop: 46998, Start Num: 8

Candidate Starts for ChickenDinner\_78:

(7, 46780), (Start: 8 @46783 has 2 MA's), (9, 46828), (10, 46846), (11, 46855), (12, 46867), (13, 46900),

Gene: Duplicity\_52 Start: 35554, Stop: 35847, Start Num: 4

Candidate Starts for Duplicity\_52:

(1, 35365), (2, 35425), (Start: 3 @35548 has 11 MA's), (Start: 4 @35554 has 3 MA's), (5, 35596), (6, 35605), (9, 35677), (10, 35695), (11, 35704), (12, 35716), (13, 35749),

Gene: Fulbright\_53 Start: 34956, Stop: 35249, Start Num: 4

Candidate Starts for Fulbright\_53:

(2, 34827), (Start: 3 @34950 has 11 MA's), (Start: 4 @34956 has 3 MA's), (5, 34998), (6, 35007), (9, 35079), (10, 35097), (11, 35106), (12, 35118), (13, 35151),

Gene: Gex\_54 Start: 35877, Stop: 36176, Start Num: 3

Candidate Starts for Gex\_54:

(2, 35754), (Start: 3 @35877 has 11 MA's), (Start: 4 @35883 has 3 MA's), (5, 35925), (6, 35934), (9, 36006), (10, 36024), (11, 36033), (12, 36045), (13, 36078),

Gene: Magsby\_54 Start: 35878, Stop: 36177, Start Num: 3

Candidate Starts for Magsby\_54:

(2, 35755), (Start: 3 @35878 has 11 MA's), (Start: 4 @35884 has 3 MA's), (5, 35926), (6, 35935), (9, 36007), (10, 36025), (11, 36034), (12, 36046), (13, 36079),

Gene: Melville\_57 Start: 35868, Stop: 36161, Start Num: 4

Candidate Starts for Melville\_57:

(2, 35739), (Start: 3 @35862 has 11 MA's), (Start: 4 @35868 has 3 MA's), (5, 35910), (6, 35919), (9, 35991), (10, 36009), (11, 36018), (12, 36030), (13, 36063),

Gene: Parmesanjohn\_54 Start: 35881, Stop: 36180, Start Num: 3

Candidate Starts for Parmesanjohn\_54:

(2, 35758), (Start: 3 @35881 has 11 MA's), (Start: 4 @35887 has 3 MA's), (5, 35929), (6, 35938), (9, 36010), (10, 36028), (11, 36037), (12, 36049), (13, 36082),

Gene: Phloss\_52 Start: 35288, Stop: 35587, Start Num: 3

Candidate Starts for Phloss\_52:

(2, 35165), (Start: 3 @35288 has 11 MA's), (Start: 4 @35294 has 3 MA's), (5, 35336), (6, 35345), (9, 35417), (10, 35435), (11, 35444), (12, 35456), (13, 35489),

Gene: Pipsqueaks\_55 Start: 35859, Stop: 36158, Start Num: 3

Candidate Starts for Pipsqueaks\_55:

(2, 35736), (Start: 3 @35859 has 11 MA's), (Start: 4 @35865 has 3 MA's), (5, 35907), (6, 35916), (9, 35988), (10, 36006), (11, 36015), (12, 36027), (13, 36060),

Gene: Schnauzer\_55 Start: 35881, Stop: 36180, Start Num: 3

Candidate Starts for Schnauzer\_55:

(2, 35758), (Start: 3 @35881 has 11 MA's), (Start: 4 @35887 has 3 MA's), (5, 35929), (6, 35938), (9, 36010), (10, 36028), (11, 36037), (12, 36049), (13, 36082),

Gene: Silvafighter\_55 Start: 35854, Stop: 36153, Start Num: 3

Candidate Starts for Silvafighter\_55:

(2, 35731), (Start: 3 @35854 has 11 MA's), (Start: 4 @35860 has 3 MA's), (5, 35902), (6, 35911), (9, 35983), (10, 36001), (11, 36010), (12, 36022), (13, 36055),

Gene: SkinnyPete\_54 Start: 36652, Stop: 36867, Start Num: 8

Candidate Starts for SkinnyPete\_54:

(7, 36649), (Start: 8 @36652 has 2 MA's), (9, 36697), (10, 36715), (11, 36724), (12, 36736), (13, 36769),

Gene: Smurph\_54 Start: 35881, Stop: 36180, Start Num: 3

Candidate Starts for Smurph\_54:

(2, 35758), (Start: 3 @35881 has 11 MA's), (Start: 4 @35887 has 3 MA's), (5, 35929), (6, 35938), (9, 36010), (10, 36028), (11, 36037), (12, 36049), (13, 36082),

Gene: Tortoise12\_54 Start: 34564, Stop: 34863, Start Num: 3

Candidate Starts for Tortoise12\_54:

(2, 34441), (Start: 3 @34564 has 11 MA's), (Start: 4 @34570 has 3 MA's), (5, 34612), (6, 34621), (10, 34711), (11, 34720), (12, 34732), (13, 34765),

Gene: Xerxes\_54 Start: 35878, Stop: 36177, Start Num: 3

Candidate Starts for Xerxes\_54:

(2, 35755), (Start: 3 @35878 has 11 MA's), (Start: 4 @35884 has 3 MA's), (5, 35926), (6, 35935), (9, 36007), (10, 36025), (11, 36034), (12, 36046), (13, 36079),