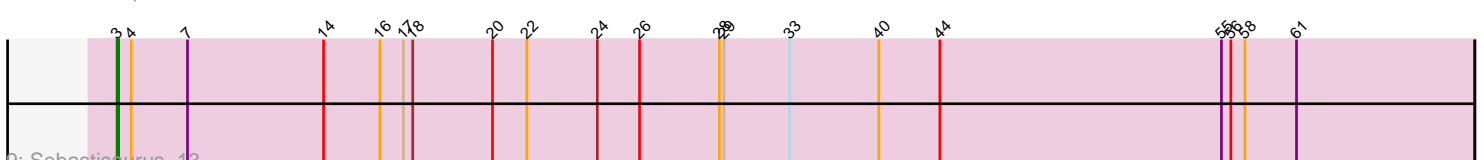
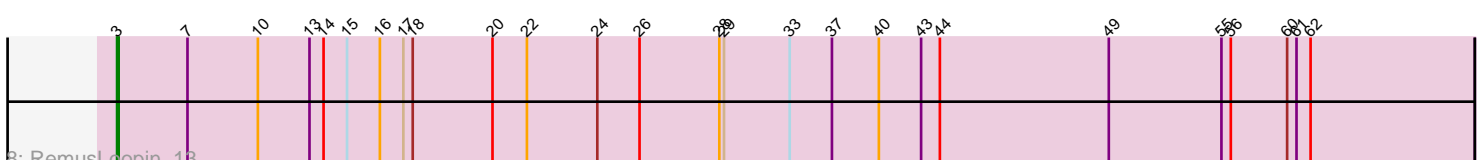
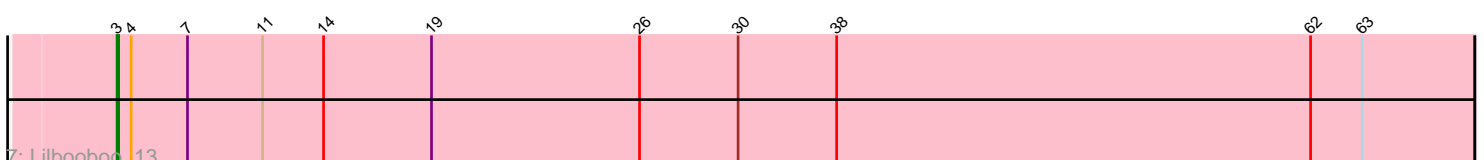
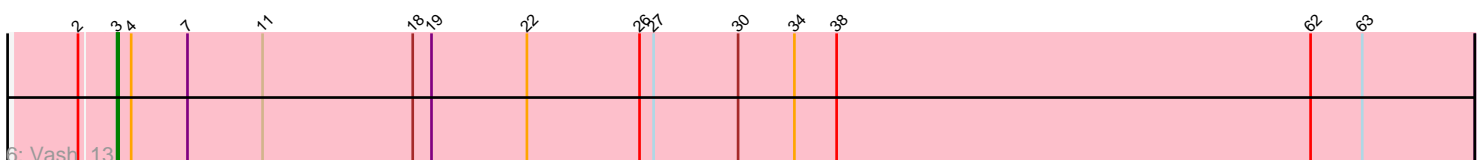
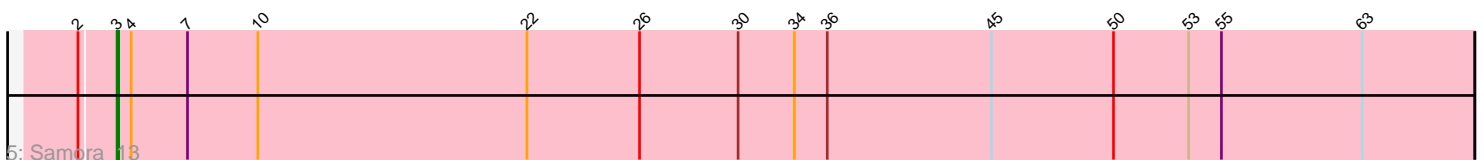
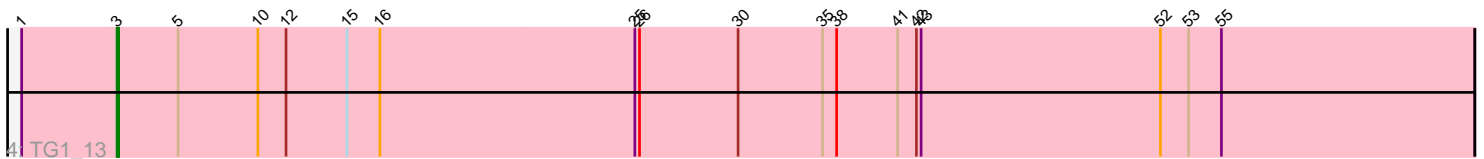
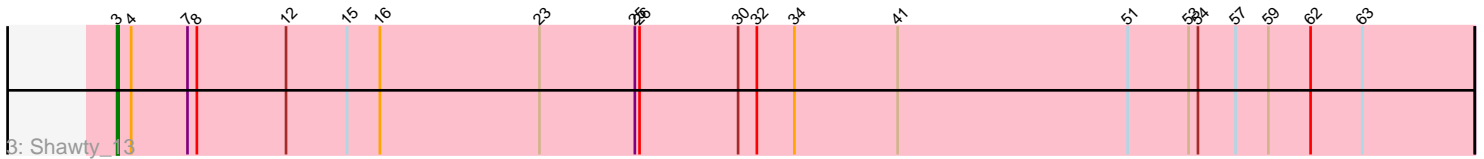
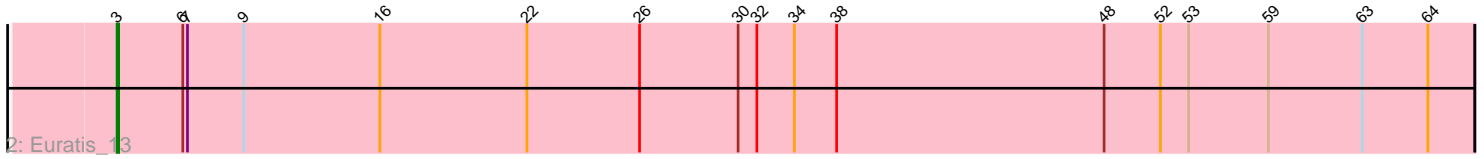
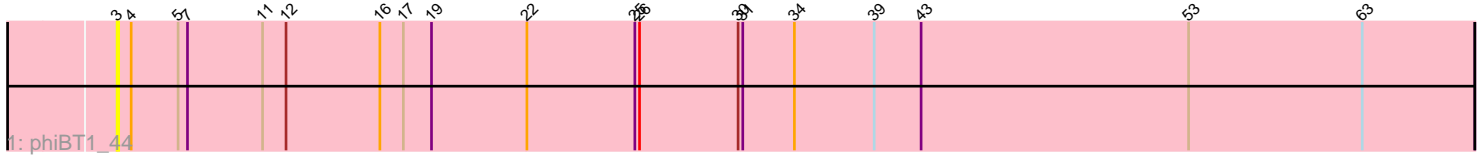


Pham 213174



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 213174 Report

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

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 213174 has 10 members, 1 are drafts.

Phages represented in each track:

- Track 1 : phiBT1\_44
- Track 2 : Euratis\_13
- Track 3 : Shawty\_13
- Track 4 : TG1\_13
- Track 5 : Samora\_13
- Track 6 : Vash\_13
- Track 7 : Lilbooboo\_13
- Track 8 : RemusLoopin\_13
- Track 9 : Sebastisaurus\_13
- Track 10 : Heather\_13

### ***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 9 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Euratis\_13, Heather\_13, Lilbooboo\_13, RemusLoopin\_13, Samora\_13, Sebastisaurus\_13, Shawty\_13, TG1\_13, Vash\_13, phiBT1\_44,

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

- 

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

- 

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

Start 3:

- Found in 10 of 10 ( 100.0% ) of genes in pham

- Manual Annotations of this start: 9 of 9
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Euratis\_13 (BB1), Heather\_13 (BB2), Lilbooboo\_13 (BB1), RemusLoopin\_13 (BB2), Samora\_13 (BB1), Sebastisaurus\_13 (BB2), Shawty\_13 (BB1), TG1\_13 (BB1), Vash\_13 (BB1), phiBT1\_44 (BB1),

### Summary by clusters:

There are 2 clusters represented in this pham: BB2, BB1,

Info for manual annotations of cluster BB1:

- Start number 3 was manually annotated 6 times for cluster BB1.

Info for manual annotations of cluster BB2:

- Start number 3 was manually annotated 3 times for cluster BB2.

### Gene Information:

Gene: Euratis\_13 Start: 10457, Stop: 11323, Start Num: 3

Candidate Starts for Euratis\_13:

(Start: 3 @10457 has 9 MA's), (6, 10499), (7, 10502), (9, 10538), (16, 10625), (22, 10718), (26, 10790), (30, 10853), (32, 10865), (34, 10889), (38, 10916), (48, 11087), (52, 11123), (53, 11141), (59, 11192), (63, 11252), (64, 11294),

Gene: Heather\_13 Start: 10445, Stop: 11311, Start Num: 3

Candidate Starts for Heather\_13:

(Start: 3 @10445 has 9 MA's), (4, 10454), (7, 10490), (11, 10538), (14, 10577), (16, 10613), (20, 10685), (21, 10691), (22, 10706), (24, 10751), (26, 10778), (28, 10829), (29, 10832), (30, 10841), (36, 10898), (38, 10904), (43, 10958), (46, 11030), (47, 11063), (51, 11090), (56, 11156), (61, 11198),

Gene: Lilbooboo\_13 Start: 10470, Stop: 11336, Start Num: 3

Candidate Starts for Lilbooboo\_13:

(Start: 3 @10470 has 9 MA's), (4, 10479), (7, 10515), (11, 10563), (14, 10602), (19, 10671), (26, 10803), (30, 10866), (38, 10929), (62, 11232), (63, 11265),

Gene: RemusLoopin\_13 Start: 10423, Stop: 11289, Start Num: 3

Candidate Starts for RemusLoopin\_13:

(Start: 3 @10423 has 9 MA's), (7, 10468), (10, 10513), (13, 10546), (14, 10555), (15, 10570), (16, 10591), (17, 10606), (18, 10612), (20, 10663), (22, 10684), (24, 10729), (26, 10756), (28, 10807), (29, 10810), (33, 10852), (37, 10879), (40, 10909), (43, 10936), (44, 10948), (49, 11056), (55, 11128), (56, 11134), (60, 11170), (61, 11176), (62, 11185),

Gene: Samora\_13 Start: 10501, Stop: 11367, Start Num: 3

Candidate Starts for Samora\_13:

(2, 10480), (Start: 3 @10501 has 9 MA's), (4, 10510), (7, 10546), (10, 10591), (22, 10762), (26, 10834), (30, 10897), (34, 10933), (36, 10954), (45, 11059), (50, 11137), (53, 11185), (55, 11206), (63, 11296),

Gene: Sebastisaurus\_13 Start: 10449, Stop: 11315, Start Num: 3

Candidate Starts for Sebastisaurus\_13:

(Start: 3 @10449 has 9 MA's), (4, 10458), (7, 10494), (14, 10581), (16, 10617), (17, 10632), (18, 10638), (20, 10689), (22, 10710), (24, 10755), (26, 10782), (28, 10833), (29, 10836), (33, 10878), (40,

10935), (44, 10974), (55, 11154), (56, 11160), (58, 11169), (61, 11202),

Gene: Shawty\_13 Start: 10451, Stop: 11317, Start Num: 3

Candidate Starts for Shawty\_13:

(Start: 3 @10451 has 9 MA's), (4, 10460), (7, 10496), (8, 10502), (12, 10559), (15, 10598), (16, 10619), (23, 10721), (25, 10781), (26, 10784), (30, 10847), (32, 10859), (34, 10883), (41, 10949), (51, 11096), (53, 11135), (54, 11141), (57, 11165), (59, 11186), (62, 11213), (63, 11246),

Gene: TG1\_13 Start: 10453, Stop: 11319, Start Num: 3

Candidate Starts for TG1\_13:

(1, 10393), (Start: 3 @10453 has 9 MA's), (5, 10492), (10, 10543), (12, 10561), (15, 10600), (16, 10621), (25, 10783), (26, 10786), (30, 10849), (35, 10903), (38, 10912), (41, 10951), (42, 10963), (43, 10966), (52, 11119), (53, 11137), (55, 11158),

Gene: Vash\_13 Start: 10476, Stop: 11342, Start Num: 3

Candidate Starts for Vash\_13:

(2, 10455), (Start: 3 @10476 has 9 MA's), (4, 10485), (7, 10521), (11, 10569), (18, 10665), (19, 10677), (22, 10737), (26, 10809), (27, 10818), (30, 10872), (34, 10908), (38, 10935), (62, 11238), (63, 11271),

Gene: phiBT1\_44 Start: 10499, Stop: 11365, Start Num: 3

Candidate Starts for phiBT1\_44:

(Start: 3 @10499 has 9 MA's), (4, 10508), (5, 10538), (7, 10544), (11, 10592), (12, 10607), (16, 10667), (17, 10682), (19, 10700), (22, 10760), (25, 10829), (26, 10832), (30, 10895), (31, 10898), (34, 10931), (39, 10982), (43, 11012), (53, 11183), (63, 11294),