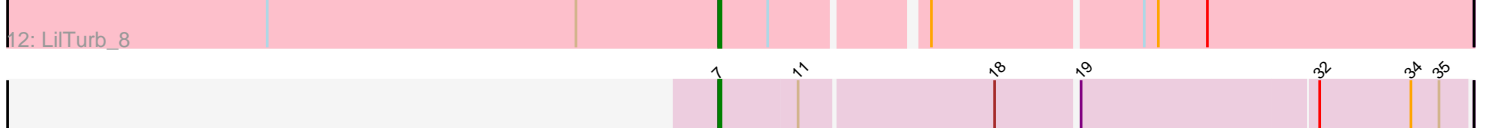
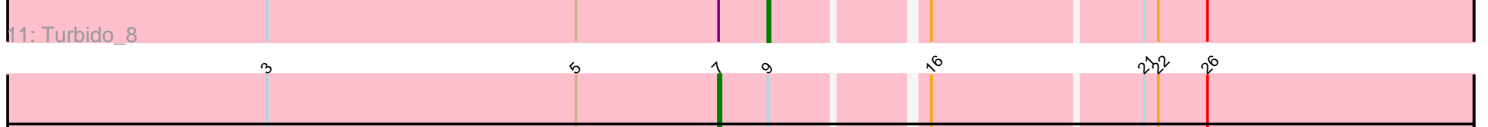
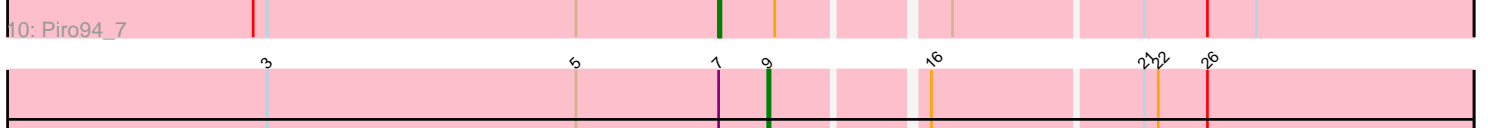
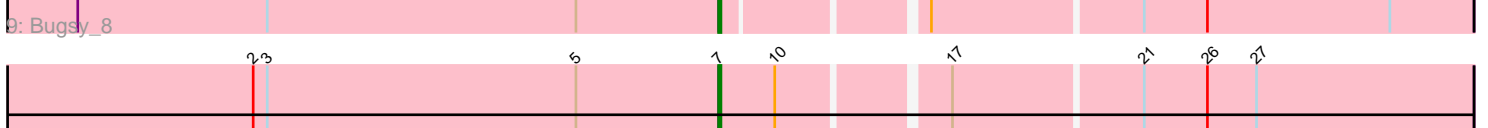
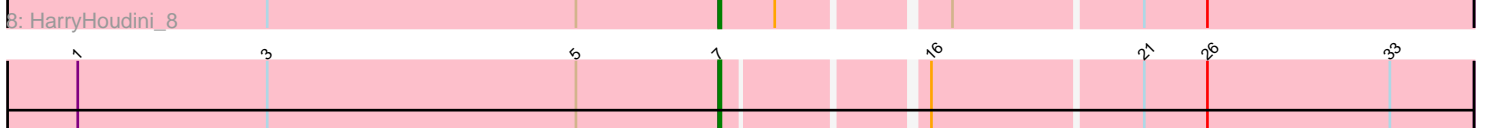
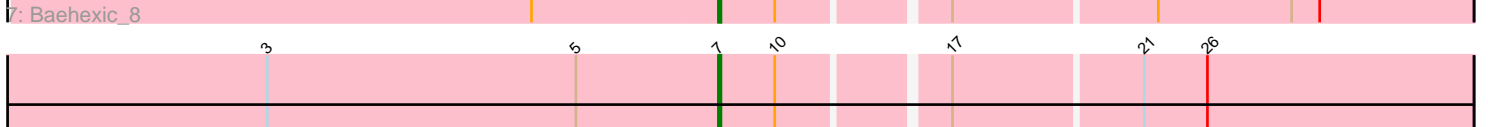
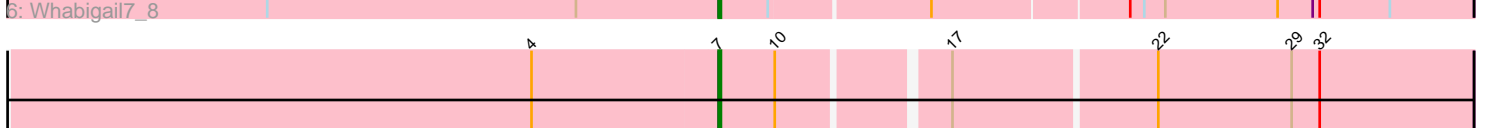
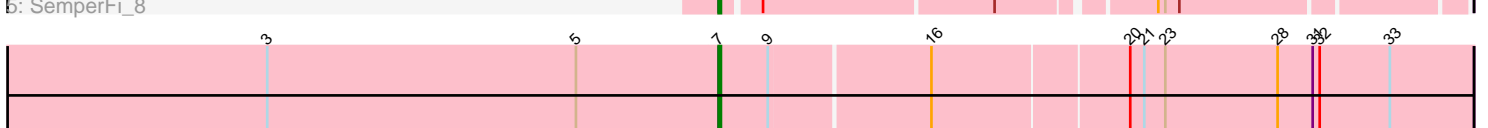
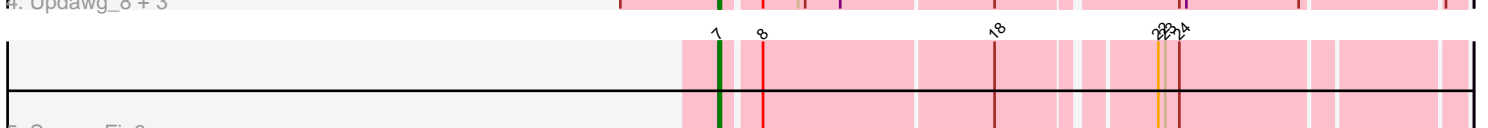
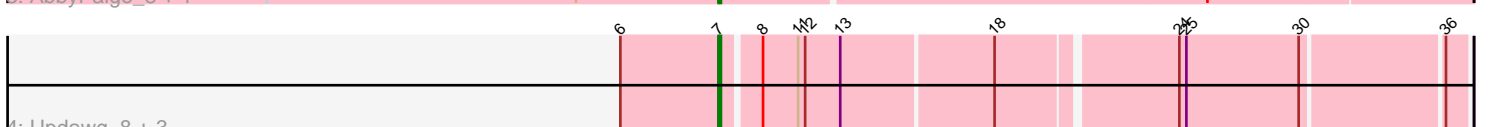
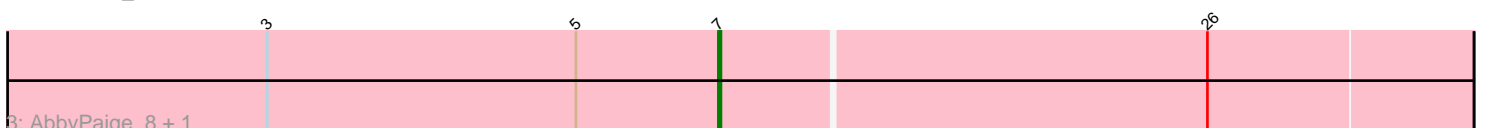
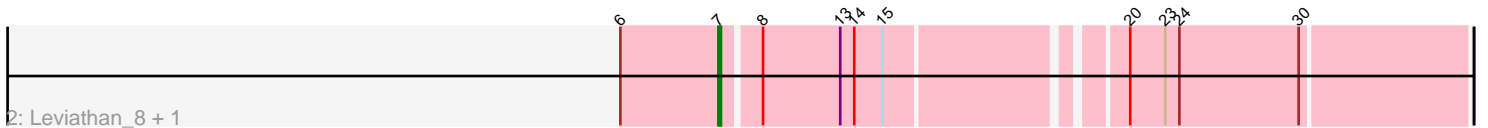
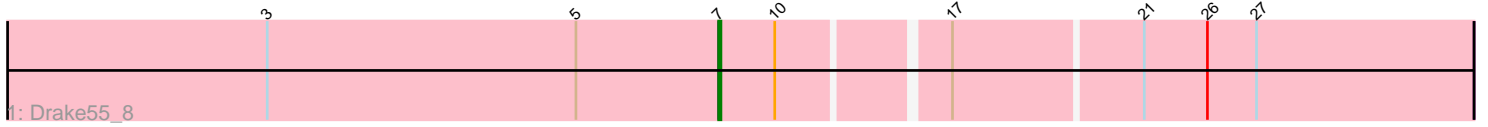


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 170347 Report

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

Pham number 170347 has 18 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Drake55\_8
- Track 2 : Leviathan\_8, Smeagan\_8
- Track 3 : AbbyPaige\_8, Agape74\_8
- Track 4 : Updawg\_8, Equemioh13\_8, Centaur\_8, WideWale\_8
- Track 5 : SemperFi\_8
- Track 6 : Whabigail7\_8
- Track 7 : Baehexic\_8
- Track 8 : HarryHoudini\_8
- Track 9 : Buggy\_8
- Track 10 : Piro94\_7
- Track 11 : Turbido\_8
- Track 12 : LilTurb\_8
- Track 13 : Nergal\_1

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

The start number called the most often in the published annotations is 7, it was called in 17 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AbbyPaige\_8, Agape74\_8, Baehexic\_8, Buggy\_8, Centaur\_8, Drake55\_8, Equemioh13\_8, HarryHoudini\_8, Leviathan\_8, LilTurb\_8, Nergal\_1, Piro94\_7, SemperFi\_8, Smeagan\_8, Updawg\_8, Whabigail7\_8, WideWale\_8,

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

- Turbido\_8,

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

- 

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

Start 7:

- Found in 18 of 18 ( 100.0% ) of genes in pham

- Manual Annotations of this start: 17 of 18
- Called 94.4% of time when present
- Phage (with cluster) where this start called: AbbyPaige\_8 (A2), Agape74\_8 (A2), Baehexic\_8 (A2), Buggy\_8 (A2), Centaur\_8 (A2), Drake55\_8 (A2), Equemioh13\_8 (A2), HarryHoudini\_8 (A2), Leviathan\_8 (A2), LilTurb\_8 (A2), Nergal\_1 (AG), Piro94\_7 (A2), SemperFi\_8 (A2), Smeagan\_8 (A2), Updawg\_8 (A2), Whabigail7\_8 (A2), WideWale\_8 (A2),

Start 9:

- Found in 3 of 18 ( 16.7% ) of genes in pham
- Manual Annotations of this start: 1 of 18
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Turbido\_8 (A2),

### Summary by clusters:

There are 2 clusters represented in this pham: A2, AG,

Info for manual annotations of cluster A2:

- Start number 7 was manually annotated 16 times for cluster A2.
- Start number 9 was manually annotated 1 time for cluster A2.

Info for manual annotations of cluster AG:

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

### Gene Information:

Gene: AbbyPaige\_8 Start: 4502, Stop: 4816, Start Num: 7

Candidate Starts for AbbyPaige\_8:

(3, 4310), (5, 4442), (Start: 7 @4502 has 17 MA's), (26, 4706),

Gene: Agape74\_8 Start: 4502, Stop: 4816, Start Num: 7

Candidate Starts for Agape74\_8:

(3, 4310), (5, 4442), (Start: 7 @4502 has 17 MA's), (26, 4706),

Gene: Baehexic\_8 Start: 4588, Stop: 4896, Start Num: 7

Candidate Starts for Baehexic\_8:

(4, 4510), (Start: 7 @4588 has 17 MA's), (10, 4612), (17, 4678), (22, 4762), (29, 4819), (32, 4831),

Gene: Buggy\_8 Start: 4513, Stop: 4818, Start Num: 7

Candidate Starts for Buggy\_8:

(1, 4240), (3, 4321), (5, 4453), (Start: 7 @4513 has 17 MA's), (16, 4591), (21, 4678), (26, 4705), (33, 4783),

Gene: Centaur\_8 Start: 4586, Stop: 4885, Start Num: 7

Candidate Starts for Centaur\_8:

(6, 4544), (Start: 7 @4586 has 17 MA's), (8, 4601), (11, 4616), (12, 4619), (13, 4634), (18, 4697), (24, 4769), (25, 4772), (30, 4820), (36, 4877),

Gene: Drake55\_8 Start: 4591, Stop: 4899, Start Num: 7

Candidate Starts for Drake55\_8:

(3, 4399), (5, 4531), (Start: 7 @4591 has 17 MA's), (10, 4615), (17, 4681), (21, 4759), (26, 4786), (27, 4807),

Gene: Equemioh13\_8 Start: 4589, Stop: 4888, Start Num: 7

Candidate Starts for Equemioh13\_8:

(6, 4547), (Start: 7 @4589 has 17 MA's), (8, 4604), (11, 4619), (12, 4622), (13, 4637), (18, 4700), (24, 4772), (25, 4775), (30, 4823), (36, 4880),

Gene: HarryHoudini\_8 Start: 4591, Stop: 4899, Start Num: 7

Candidate Starts for HarryHoudini\_8:

(3, 4399), (5, 4531), (Start: 7 @4591 has 17 MA's), (10, 4615), (17, 4681), (21, 4759), (26, 4786),

Gene: Leviathan\_8 Start: 4512, Stop: 4808, Start Num: 7

Candidate Starts for Leviathan\_8:

(6, 4470), (Start: 7 @4512 has 17 MA's), (8, 4527), (13, 4560), (14, 4566), (15, 4578), (20, 4668), (23, 4683), (24, 4689), (30, 4740),

Gene: LilTurb\_8 Start: 4512, Stop: 4820, Start Num: 7

Candidate Starts for LilTurb\_8:

(3, 4320), (5, 4452), (Start: 7 @4512 has 17 MA's), (Start: 9 @4533 has 1 MA's), (16, 4593), (21, 4680), (22, 4686), (26, 4707),

Gene: Nergal\_1 Start: 217, Stop: 525, Start Num: 7

Candidate Starts for Nergal\_1:

(Start: 7 @217 has 17 MA's), (11, 250), (18, 331), (19, 364), (32, 463), (34, 502), (35, 514),

Gene: Piro94\_7 Start: 4592, Stop: 4900, Start Num: 7

Candidate Starts for Piro94\_7:

(2, 4394), (3, 4400), (5, 4532), (Start: 7 @4592 has 17 MA's), (10, 4616), (17, 4682), (21, 4760), (26, 4787), (27, 4808),

Gene: SemperFi\_8 Start: 4528, Stop: 4821, Start Num: 7

Candidate Starts for SemperFi\_8:

(Start: 7 @4528 has 17 MA's), (8, 4543), (18, 4639), (22, 4699), (23, 4702), (24, 4708),

Gene: Smeagan\_8 Start: 4515, Stop: 4811, Start Num: 7

Candidate Starts for Smeagan\_8:

(6, 4473), (Start: 7 @4515 has 17 MA's), (8, 4530), (13, 4563), (14, 4569), (15, 4581), (20, 4671), (23, 4686), (24, 4692), (30, 4743),

Gene: Turbido\_8 Start: 4536, Stop: 4823, Start Num: 9

Candidate Starts for Turbido\_8:

(3, 4323), (5, 4455), (Start: 7 @4515 has 17 MA's), (Start: 9 @4536 has 1 MA's), (16, 4596), (21, 4683), (22, 4689), (26, 4710),

Gene: Updawg\_8 Start: 4589, Stop: 4888, Start Num: 7

Candidate Starts for Updawg\_8:

(6, 4547), (Start: 7 @4589 has 17 MA's), (8, 4604), (11, 4619), (12, 4622), (13, 4637), (18, 4700), (24, 4772), (25, 4775), (30, 4823), (36, 4880),

Gene: Whabigail7\_8 Start: 4512, Stop: 4826, Start Num: 7

Candidate Starts for Whabigail7\_8:

(3, 4320), (5, 4452), (Start: 7 @4512 has 17 MA's), (Start: 9 @4533 has 1 MA's), (16, 4599), (20, 4680), (21, 4686), (23, 4695), (28, 4743), (31, 4758), (32, 4761), (33, 4791),

Gene: WideWale\_8 Start: 4589, Stop: 4888, Start Num: 7

Candidate Starts for WideWale\_8:

(6, 4547), (Start: 7 @4589 has 17 MA's), (8, 4604), (11, 4619), (12, 4622), (13, 4637), (18, 4700), (24, 4772), (25, 4775), (30, 4823), (36, 4880),