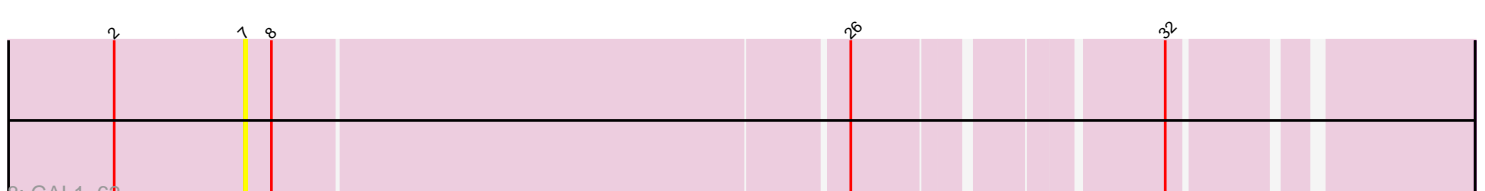
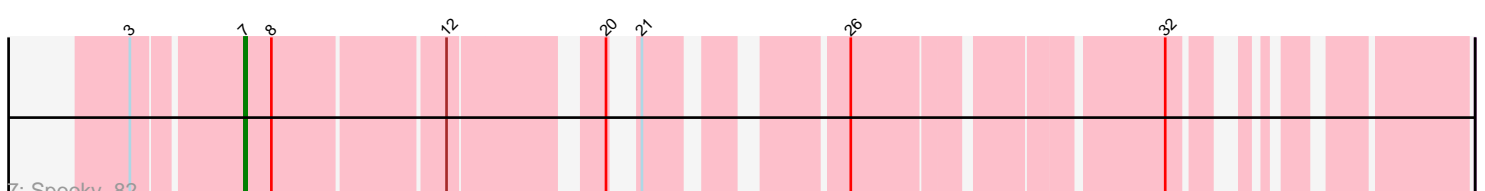
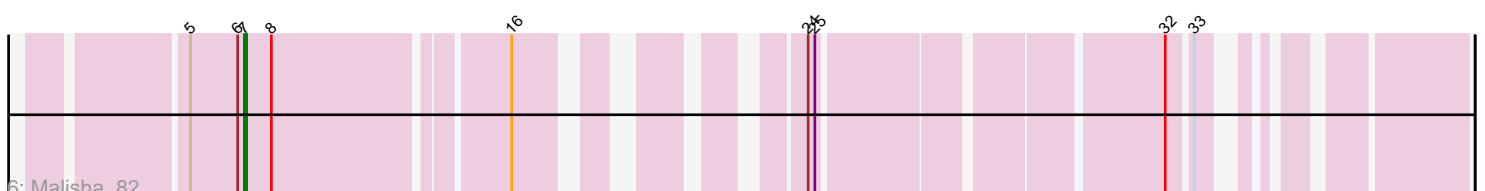
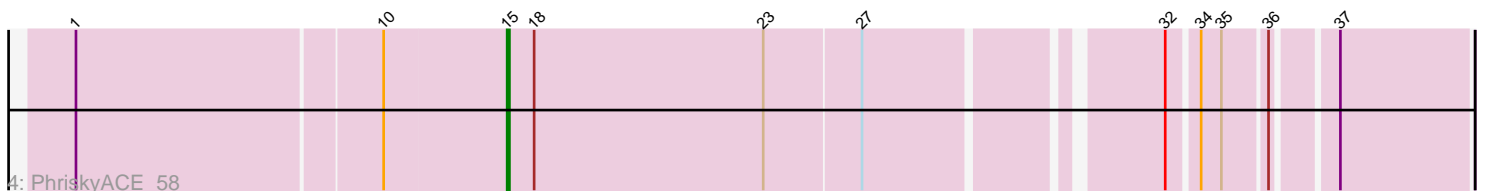
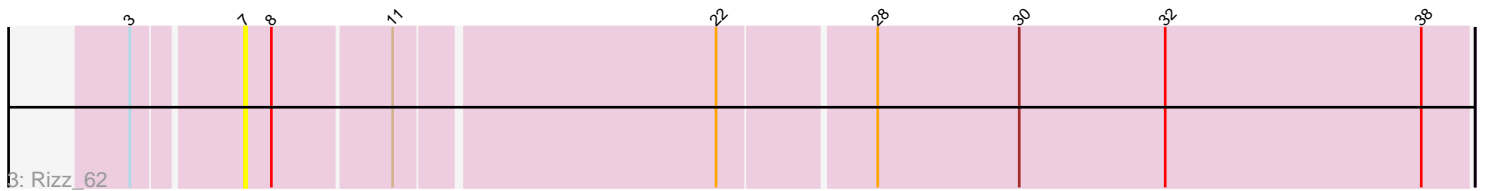
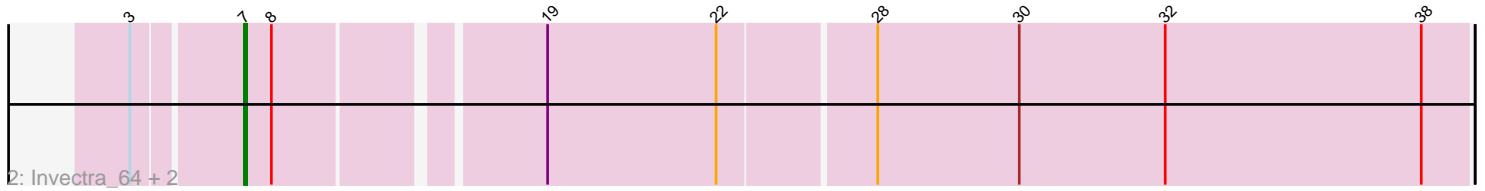
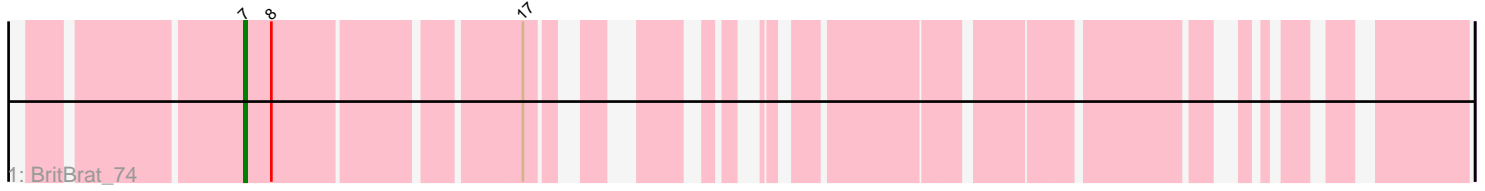


Pham 305496



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 305496 Report

This analysis was run 06/08/26 on database version 649.

Pham number 305496 has 10 members, 2 are drafts.

Phages represented in each track:

- Track 1 : BritBrat\_74
- Track 2 : Invecetra\_64, Clark\_61, Samman98\_62
- Track 3 : Rizz\_62
- Track 4 : PhriskyACE\_58
- Track 5 : Faith5x5\_56
- Track 6 : Malisha\_82
- Track 7 : Spooky\_82
- Track 8 : GAL1\_62

### ***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 6 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BritBrat\_74, Clark\_61, GAL1\_62, Invecetra\_64, Malisha\_82, Rizz\_62, Samman98\_62, Spooky\_82,

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

- 

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

- Faith5x5\_56, PhriskyACE\_58,

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

Start 7:

- Found in 8 of 10 ( 80.0% ) of genes in pham
- Manual Annotations of this start: 6 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BritBrat\_74 (CY2), Clark\_61 (CZ4), GAL1\_62 (singleton), Invecetra\_64 (CZ4), Malisha\_82 (DN), Rizz\_62 (CZ4), Samman98\_62 (CZ4), Spooky\_82 (DN2),

Start 13:

- Found in 1 of 10 ( 10.0% ) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Faith5x5\_56 (CZ6),

Start 15:

- Found in 1 of 10 ( 10.0% ) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: PhriskyACE\_58 (CZ4),

**Summary by clusters:**

There are 6 clusters represented in this pham: DN, CY2, singleton, CZ6, CZ4, DN2,

Info for manual annotations of cluster CY2:

- Start number 7 was manually annotated 1 time for cluster CY2.

Info for manual annotations of cluster CZ4:

- Start number 7 was manually annotated 3 times for cluster CZ4.
- Start number 15 was manually annotated 1 time for cluster CZ4.

Info for manual annotations of cluster CZ6:

- Start number 13 was manually annotated 1 time for cluster CZ6.

Info for manual annotations of cluster DN:

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

Info for manual annotations of cluster DN2:

- Start number 7 was manually annotated 1 time for cluster DN2.

**Gene Information:**

Gene: BritBrat\_74 Start: 46520, Stop: 46924, Start Num: 7

Candidate Starts for BritBrat\_74:

(Start: 7 @46520 has 6 MA's), (8, 46532), (17, 46631),

Gene: Clark\_61 Start: 40299, Stop: 40820, Start Num: 7

Candidate Starts for Clark\_61:

(3, 40254), (Start: 7 @40299 has 6 MA's), (8, 40311), (19, 40419), (22, 40494), (28, 40560), (30, 40623), (32, 40686), (38, 40800),

Gene: Faith5x5\_56 Start: 35249, Stop: 35653, Start Num: 13

Candidate Starts for Faith5x5\_56:

(4, 35126), (9, 35198), (Start: 13 @35249 has 1 MA's), (14, 35264), (29, 35471), (31, 35516), (32, 35558),

Gene: GAL1\_62 Start: 40466, Stop: 40969, Start Num: 7

Candidate Starts for GAL1\_62:

(2, 40409), (Start: 7 @40466 has 6 MA's), (8, 40478), (26, 40727), (32, 40850),

Gene: Invectra\_64 Start: 41872, Stop: 42393, Start Num: 7

Candidate Starts for Invectra\_64:

(3, 41827), (Start: 7 @41872 has 6 MA's), (8, 41884), (19, 41992), (22, 42067), (28, 42133), (30, 42196), (32, 42259), (38, 42373),

Gene: Malisha\_82 Start: 49477, Stop: 49902, Start Num: 7

Candidate Starts for Malisha\_82:

(5, 49453), (6, 49474), (Start: 7 @49477 has 6 MA's), (8, 49489), (16, 49585), (24, 49669), (25, 49672), (32, 49807), (33, 49816),

Gene: PhriskyACE\_58 Start: 40589, Stop: 40981, Start Num: 15

Candidate Starts for PhriskyACE\_58:

(1, 40403), (10, 40535), (Start: 15 @40589 has 1 MA's), (18, 40601), (23, 40703), (27, 40745), (32, 40862), (34, 40874), (35, 40883), (36, 40901), (37, 40925),

Gene: Rizz\_62 Start: 41085, Stop: 41609, Start Num: 7

Candidate Starts for Rizz\_62:

(3, 41040), (Start: 7 @41085 has 6 MA's), (8, 41097), (11, 41148), (22, 41283), (28, 41349), (30, 41412), (32, 41475), (38, 41589),

Gene: Samman98\_62 Start: 40402, Stop: 40923, Start Num: 7

Candidate Starts for Samman98\_62:

(3, 40357), (Start: 7 @40402 has 6 MA's), (8, 40414), (19, 40522), (22, 40597), (28, 40663), (30, 40726), (32, 40789), (38, 40903),

Gene: Spooky\_82 Start: 46716, Stop: 47147, Start Num: 7

Candidate Starts for Spooky\_82:

(3, 46671), (Start: 7 @46716 has 6 MA's), (8, 46728), (12, 46800), (20, 46857), (21, 46860), (26, 46929), (32, 47052),