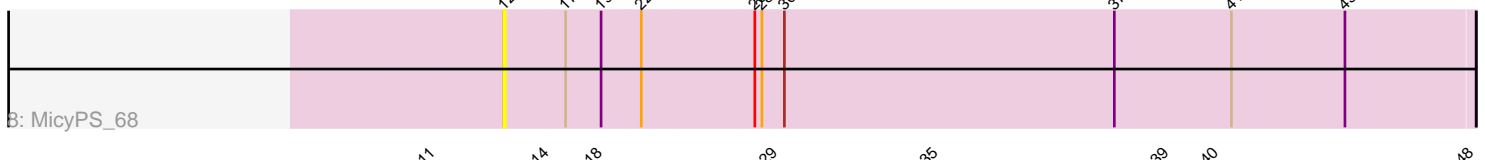
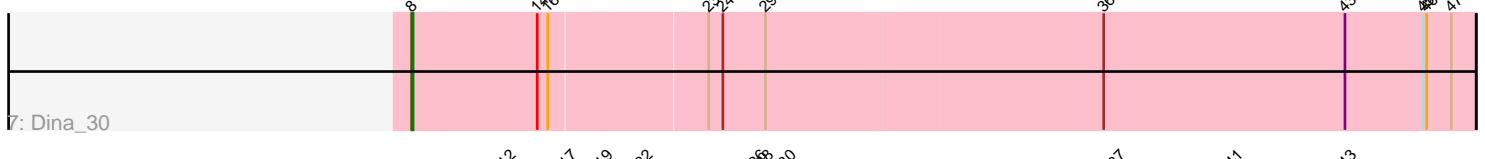
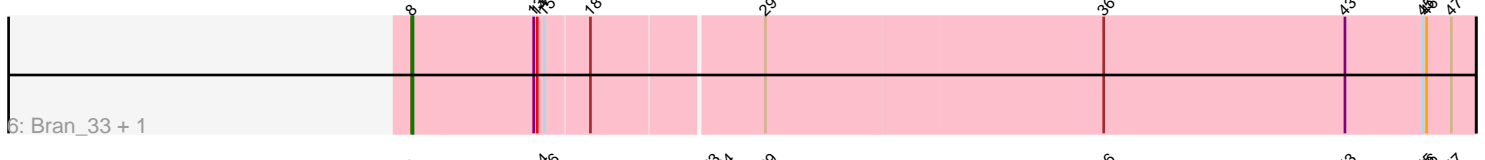
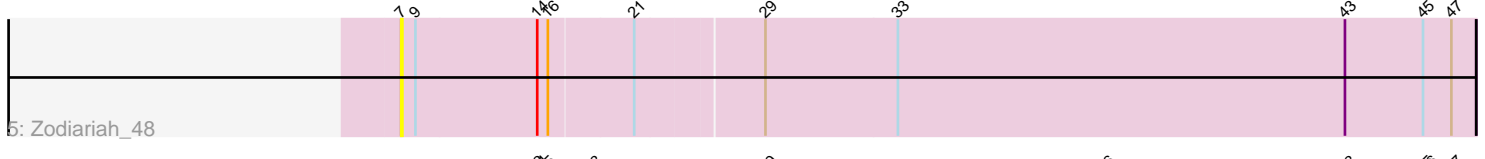
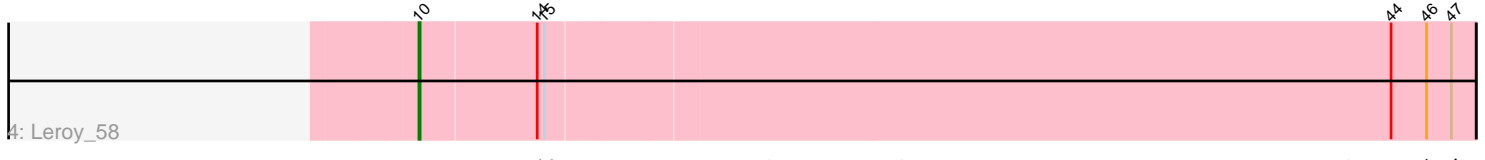
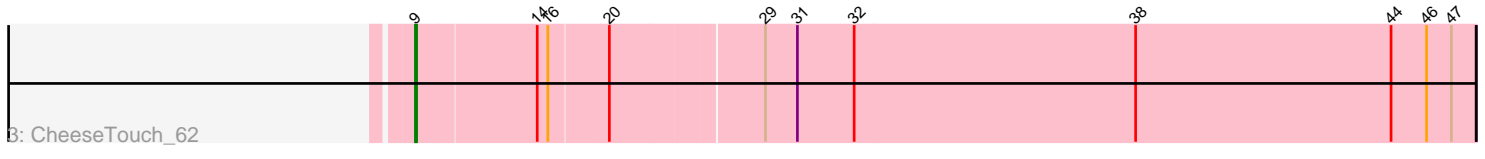
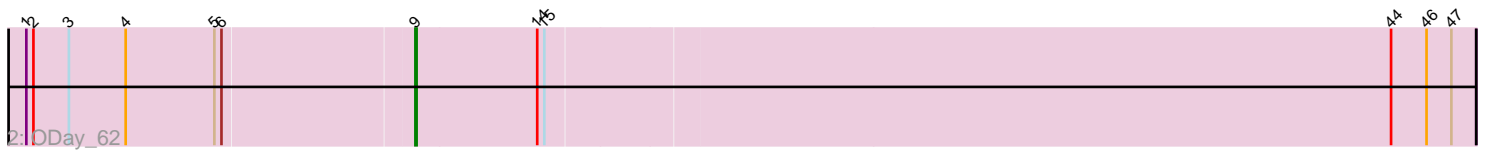


Pham 214809



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 214809 Report

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

Pham number 214809 has 13 members, 3 are drafts.

Phages represented in each track:

- Track 1 : BritBrat\_51
- Track 2 : ODay\_62
- Track 3 : CheeseTouch\_62
- Track 4 : Leroy\_58
- Track 5 : Zodiariah\_48
- Track 6 : Bran\_33, Adelaide\_30
- Track 7 : Dina\_30
- Track 8 : MicyPS\_68
- Track 9 : Zapner\_59, Jabbawokkie\_61
- Track 10 : Stuck\_51
- Track 11 : LilSpotty\_46

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

The start number called the most often in the published annotations is 9, it was called in 3 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BritBrat\_51, CheeseTouch\_62, ODay\_62,

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

- Zodiariah\_48,

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

- Adelaide\_30, Bran\_33, Dina\_30, Jabbawokkie\_61, Leroy\_58, LilSpotty\_46, MicyPS\_68, Stuck\_51, Zapner\_59,

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

Start 7:

- Found in 1 of 13 ( 7.7% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Zodiariah\_48 (DW),

Start 8:

- Found in 3 of 13 ( 23.1% ) of genes in pham
- Manual Annotations of this start: 3 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Adelaide\_30 (EP), Bran\_33 (EP), Dina\_30 (EP),

Start 9:

- Found in 4 of 13 ( 30.8% ) of genes in pham
- Manual Annotations of this start: 3 of 10
- Called 75.0% of time when present
- Phage (with cluster) where this start called: BritBrat\_51 (CY2), CheeseTouch\_62 (DN1), ODay\_62 (DN),

Start 10:

- Found in 1 of 13 ( 7.7% ) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Leroy\_58 (DN1),

Start 11:

- Found in 4 of 13 ( 30.8% ) of genes in pham
- Manual Annotations of this start: 3 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jabbawokkie\_61 (F2), LilSpotty\_46 (singleton), Stuck\_51 (I2), Zapner\_59 (F2),

Start 12:

- Found in 1 of 13 ( 7.7% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MicyPS\_68 (EQ),

**Summary by clusters:**

There are 9 clusters represented in this pham: DN, CY2, singleton, I2, F2, DN1, DW, EQ, EP,

Info for manual annotations of cluster CY2:

- Start number 9 was manually annotated 1 time for cluster CY2.

Info for manual annotations of cluster DN:

- Start number 9 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 9 was manually annotated 1 time for cluster DN1.
- Start number 10 was manually annotated 1 time for cluster DN1.

Info for manual annotations of cluster EP:

- Start number 8 was manually annotated 3 times for cluster EP.

Info for manual annotations of cluster F2:

•Start number 11 was manually annotated 2 times for cluster F2.

**Gene Information:**

Gene: Adelaide\_30 Start: 26443, Stop: 27321, Start Num: 8

Candidate Starts for Adelaide\_30:

(Start: 8 @26443 has 3 MA's), (13, 26545), (14, 26548), (15, 26554), (18, 26590), (29, 26728), (36, 27007), (43, 27211), (45, 27277), (46, 27280), (47, 27301),

Gene: Bran\_33 Start: 28148, Stop: 29026, Start Num: 8

Candidate Starts for Bran\_33:

(Start: 8 @28148 has 3 MA's), (13, 28250), (14, 28253), (15, 28259), (18, 28295), (29, 28433), (36, 28712), (43, 28916), (45, 28982), (46, 28985), (47, 29006),

Gene: BritBrat\_51 Start: 37037, Stop: 37918, Start Num: 9

Candidate Starts for BritBrat\_51:

(6, 36878), (Start: 9 @37037 has 3 MA's), (14, 37139), (15, 37145), (34, 37433), (40, 37691), (42, 37796), (43, 37808), (44, 37847), (45, 37874), (46, 37877), (47, 37898),

Gene: CheeseTouch\_62 Start: 34639, Stop: 35517, Start Num: 9

Candidate Starts for CheeseTouch\_62:

(Start: 9 @34639 has 3 MA's), (14, 34738), (16, 34747), (20, 34795), (29, 34918), (31, 34945), (32, 34993), (38, 35230), (44, 35446), (46, 35476), (47, 35497),

Gene: Dina\_30 Start: 25374, Stop: 26258, Start Num: 8

Candidate Starts for Dina\_30:

(Start: 8 @25374 has 3 MA's), (14, 25479), (16, 25488), (23, 25617), (24, 25629), (29, 25665), (36, 25944), (43, 26148), (45, 26214), (46, 26217), (47, 26238),

Gene: Jabbawokkie\_61 Start: 36226, Stop: 37107, Start Num: 11

Candidate Starts for Jabbawokkie\_61:

(Start: 11 @36226 has 3 MA's), (14, 36322), (18, 36367), (29, 36508), (35, 36643), (39, 36838), (40, 36880), (48, 37096),

Gene: Leroy\_58 Start: 36986, Stop: 37864, Start Num: 10

Candidate Starts for Leroy\_58:

(Start: 10 @36986 has 1 MA's), (14, 37082), (15, 37088), (44, 37793), (46, 37823), (47, 37844),

Gene: LilSpotty\_46 Start: 32678, Stop: 33556, Start Num: 11

Candidate Starts for LilSpotty\_46:

(5, 32504), (Start: 11 @32678 has 3 MA's), (14, 32774), (25, 32927), (27, 32951), (29, 32957), (35, 33092), (40, 33329), (46, 33515),

Gene: MicyPS\_68 Start: 44107, Stop: 43298, Start Num: 12

Candidate Starts for MicyPS\_68:

(12, 44107), (17, 44056), (19, 44026), (22, 43993), (26, 43900), (28, 43894), (30, 43876), (37, 43600), (41, 43501), (43, 43405),

Gene: ODay\_62 Start: 38884, Stop: 39768, Start Num: 9

Candidate Starts for ODay\_62:

(1, 38563), (2, 38569), (3, 38599), (4, 38647), (5, 38722), (6, 38728), (Start: 9 @38884 has 3 MA's), (14, 38986), (15, 38992), (44, 39697), (46, 39727), (47, 39748),

Gene: Stuck\_51 Start: 38539, Stop: 39417, Start Num: 11

Candidate Starts for Stuck\_51:

(Start: 11 @38539 has 3 MA's), (14, 38635), (25, 38788), (27, 38812), (29, 38818), (35, 38953), (40, 39190), (46, 39376),

Gene: Zapner\_59 Start: 36227, Stop: 37108, Start Num: 11

Candidate Starts for Zapner\_59:

(Start: 11 @36227 has 3 MA's), (14, 36323), (18, 36368), (29, 36509), (35, 36644), (39, 36839), (40, 36881), (48, 37097),

Gene: Zodiariah\_48 Start: 37506, Stop: 38399, Start Num: 7

Candidate Starts for Zodiariah\_48:

(7, 37506), (Start: 9 @37518 has 3 MA's), (14, 37620), (16, 37629), (21, 37698), (29, 37800), (33, 37911), (43, 38289), (45, 38355), (47, 38379),