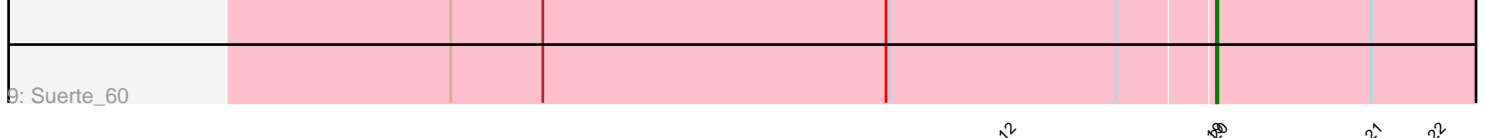
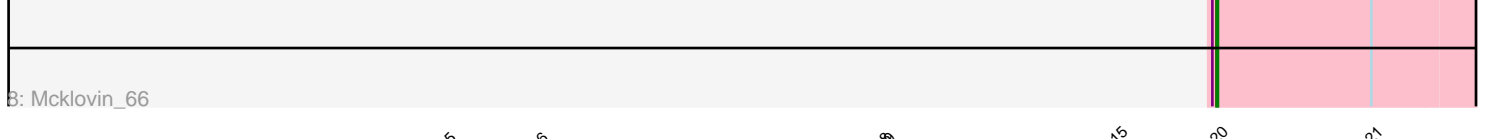
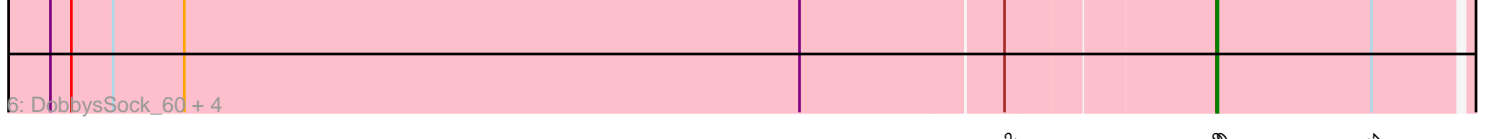
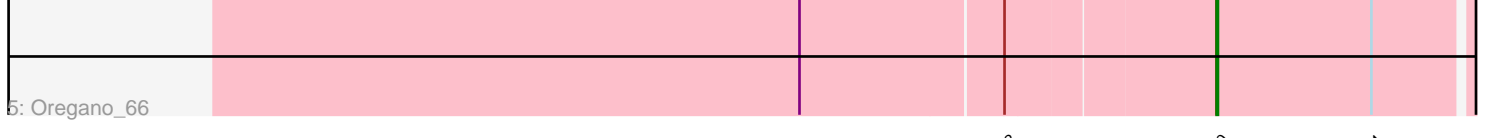
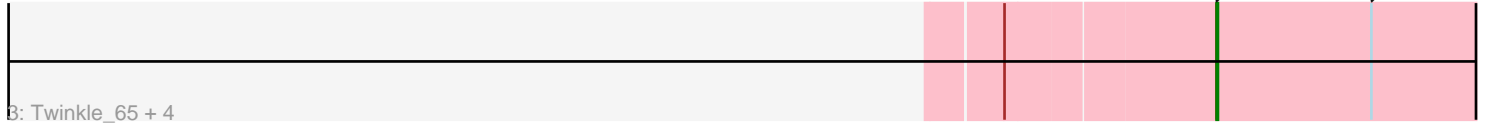
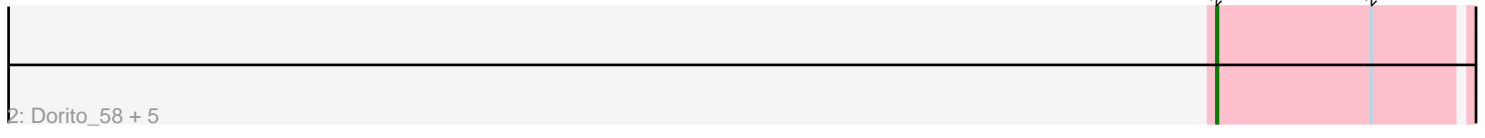
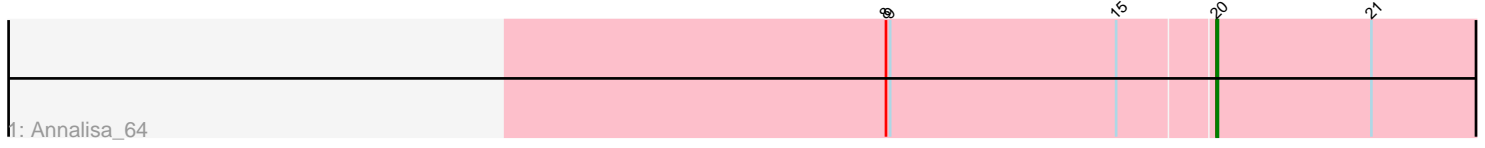


Pham 216504



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 216504 Report

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

Pham number 216504 has 24 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Annalisa\_64
- Track 2 : Dorito\_58, Powerball\_65, Dolores\_66, PhriskyACE\_64, Sekhmet\_65, WinkNick\_66
- Track 3 : Twinkle\_65, Howe\_66, Adora\_63, Hortense\_66, Shlim410\_64
- Track 4 : Easley\_63
- Track 5 : Oregano\_66
- Track 6 : DobbysSock\_60, Beenie\_60, Samman98\_66, Invecetra\_67, Clark\_65
- Track 7 : Thimann\_66
- Track 8 : Mcklovin\_66
- Track 9 : Suerte\_60
- Track 10 : MichaelScott\_67
- Track 11 : Zodiariah\_66

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

The start number called the most often in the published annotations is 20, it was called in 21 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adora\_63, Annalisa\_64, Beenie\_60, Clark\_65, DobbysSock\_60, Dolores\_66, Dorito\_58, Easley\_63, Hortense\_66, Howe\_66, Invecetra\_67, Mcklovin\_66, MichaelScott\_67, Oregano\_66, PhriskyACE\_64, Powerball\_65, Samman98\_66, Sekhmet\_65, Shlim410\_64, Suerte\_60, Thimann\_66, Twinkle\_65, WinkNick\_66, Zodiariah\_66,

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 20:

- Found in 24 of 24 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 21 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Adora\_63 (CZ4), Annalisa\_64 (CZ4), Beenie\_60 (CZ4), Clark\_65 (CZ4), DobbysSock\_60 (CZ4), Dolores\_66 (CZ4), Dorito\_58 (CZ4), Easley\_63 (CZ4), Hortense\_66 (CZ4), Howe\_66 (CZ4), Invectra\_67 (CZ4), Mcklovin\_66 (CZ4), MichaelScott\_67 (CZ4), Oregano\_66 (CZ4), PhriskyACE\_64 (CZ4), Powerball\_65 (CZ4), Samman98\_66 (CZ4), Sekhmet\_65 (CZ4), Shlim410\_64 (CZ4), Suerte\_60 (CZ4), Thimann\_66 (CZ4), Twinkle\_65 (CZ4), WinkNick\_66 (CZ4), Zodiariah\_66 (DW),

### **Summary by clusters:**

There are 2 clusters represented in this pham: DW, CZ4,

Info for manual annotations of cluster CZ4:

- Start number 20 was manually annotated 21 times for cluster CZ4.

### **Gene Information:**

Gene: Adora\_63 Start: 44095, Stop: 44289, Start Num: 20

Candidate Starts for Adora\_63:

(12, 43951), (Start: 20 @44095 has 21 MA's), (21, 44206),

Gene: Annalisa\_64 Start: 42302, Stop: 42496, Start Num: 20

Candidate Starts for Annalisa\_64:

(8, 42071), (9, 42074), (15, 42236), (Start: 20 @42302 has 21 MA's), (21, 42413),

Gene: Beenie\_60 Start: 42143, Stop: 42337, Start Num: 20

Candidate Starts for Beenie\_60:

(1, 41321), (2, 41336), (3, 41366), (4, 41417), (7, 41858), (12, 41999), (Start: 20 @42143 has 21 MA's), (21, 42254),

Gene: Clark\_65 Start: 41906, Stop: 42100, Start Num: 20

Candidate Starts for Clark\_65:

(1, 41084), (2, 41099), (3, 41129), (4, 41180), (7, 41621), (12, 41762), (Start: 20 @41906 has 21 MA's), (21, 42017),

Gene: DobbysSock\_60 Start: 41554, Stop: 41739, Start Num: 20

Candidate Starts for DobbysSock\_60:

(1, 40732), (2, 40747), (3, 40777), (4, 40828), (7, 41269), (12, 41410), (Start: 20 @41554 has 21 MA's), (21, 41665),

Gene: Dolores\_66 Start: 41837, Stop: 42031, Start Num: 20

Candidate Starts for Dolores\_66:

(Start: 20 @41837 has 21 MA's), (21, 41948),

Gene: Dorito\_58 Start: 39421, Stop: 39606, Start Num: 20

Candidate Starts for Dorito\_58:

(Start: 20 @39421 has 21 MA's), (21, 39532),

Gene: Easley\_63 Start: 41309, Stop: 41494, Start Num: 20  
Candidate Starts for Easley\_63:  
(10, 41120), (11, 41141), (14, 41228), (16, 41246), (17, 41264), (Start: 20 @41309 has 21 MA's), (21, 41420),

Gene: Hortense\_66 Start: 45450, Stop: 45644, Start Num: 20  
Candidate Starts for Hortense\_66:  
(12, 45306), (Start: 20 @45450 has 21 MA's), (21, 45561),

Gene: Howe\_66 Start: 45450, Stop: 45644, Start Num: 20  
Candidate Starts for Howe\_66:  
(12, 45306), (Start: 20 @45450 has 21 MA's), (21, 45561),

Gene: Invectra\_67 Start: 43479, Stop: 43673, Start Num: 20  
Candidate Starts for Invectra\_67:  
(1, 42657), (2, 42672), (3, 42702), (4, 42753), (7, 43194), (12, 43335), (Start: 20 @43479 has 21 MA's), (21, 43590),

Gene: Mcklovin\_66 Start: 48429, Stop: 48620, Start Num: 20  
Candidate Starts for Mcklovin\_66:  
(19, 48426), (Start: 20 @48429 has 21 MA's), (21, 48540),

Gene: MichaelScott\_67 Start: 43167, Stop: 43352, Start Num: 20  
Candidate Starts for MichaelScott\_67:  
(12, 43023), (19, 43164), (Start: 20 @43167 has 21 MA's), (21, 43278), (22, 43323),

Gene: Oregano\_66 Start: 42041, Stop: 42226, Start Num: 20  
Candidate Starts for Oregano\_66:  
(7, 41756), (12, 41897), (Start: 20 @42041 has 21 MA's), (21, 42152),

Gene: PhriskyACE\_64 Start: 42390, Stop: 42584, Start Num: 20  
Candidate Starts for PhriskyACE\_64:  
(Start: 20 @42390 has 21 MA's), (21, 42501),

Gene: Powerball\_65 Start: 42493, Stop: 42687, Start Num: 20  
Candidate Starts for Powerball\_65:  
(Start: 20 @42493 has 21 MA's), (21, 42604),

Gene: Samman98\_66 Start: 42009, Stop: 42203, Start Num: 20  
Candidate Starts for Samman98\_66:  
(1, 41187), (2, 41202), (3, 41232), (4, 41283), (7, 41724), (12, 41865), (Start: 20 @42009 has 21 MA's), (21, 42120),

Gene: Sekhmet\_65 Start: 42236, Stop: 42430, Start Num: 20  
Candidate Starts for Sekhmet\_65:  
(Start: 20 @42236 has 21 MA's), (21, 42347),

Gene: Shlim410\_64 Start: 45450, Stop: 45644, Start Num: 20  
Candidate Starts for Shlim410\_64:  
(12, 45306), (Start: 20 @45450 has 21 MA's), (21, 45561),

Gene: Suerte\_60 Start: 41851, Stop: 42045, Start Num: 20

Candidate Starts for Suerte\_60:

(5, 41308), (6, 41374), (8, 41620), (9, 41623), (15, 41785), (Start: 20 @41851 has 21 MA's), (21, 41962),

Gene: Thimann\_66 Start: 42275, Stop: 42460, Start Num: 20

Candidate Starts for Thimann\_66:

(12, 42131), (19, 42272), (Start: 20 @42275 has 21 MA's), (21, 42386),

Gene: Twinkle\_65 Start: 46509, Stop: 46703, Start Num: 20

Candidate Starts for Twinkle\_65:

(12, 46365), (Start: 20 @46509 has 21 MA's), (21, 46620),

Gene: WinkNick\_66 Start: 41760, Stop: 41954, Start Num: 20

Candidate Starts for WinkNick\_66:

(Start: 20 @41760 has 21 MA's), (21, 41871),

Gene: Zodiariah\_66 Start: 47246, Stop: 47425, Start Num: 20

Candidate Starts for Zodiariah\_66:

(13, 47114), (18, 47225), (Start: 20 @47246 has 21 MA's), (21, 47357),