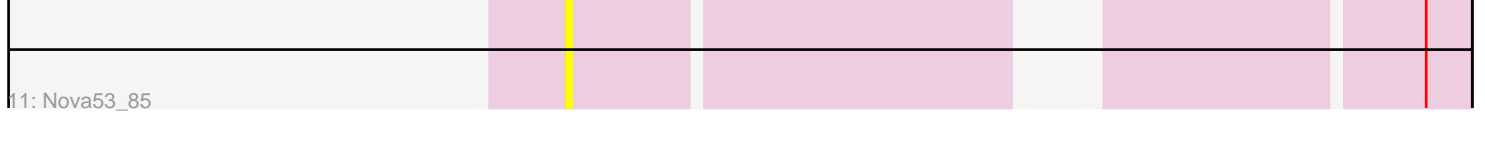
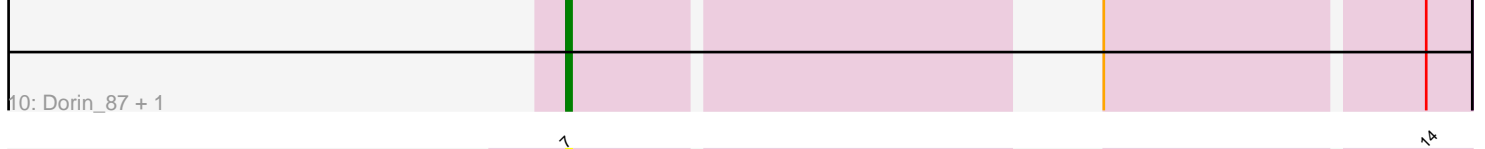
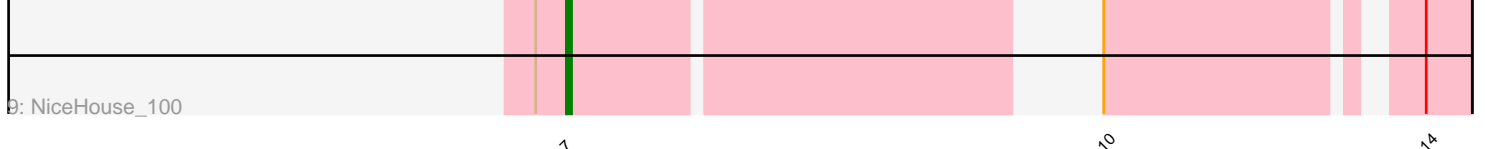
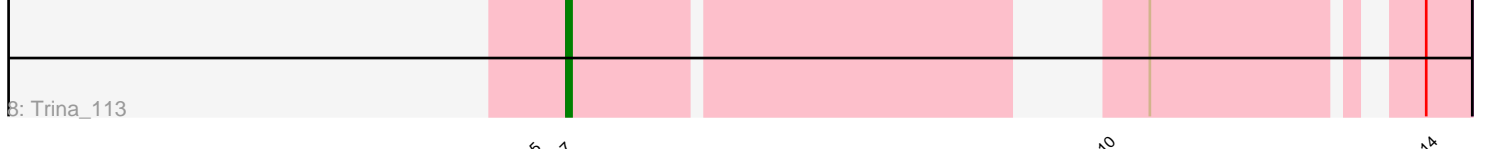
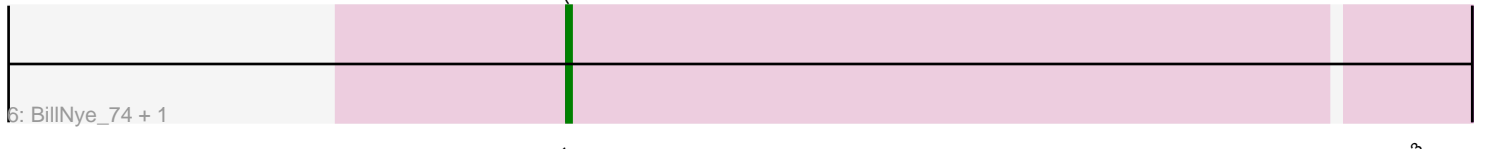
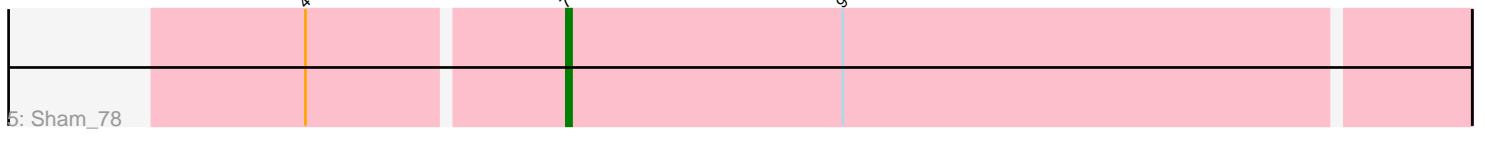
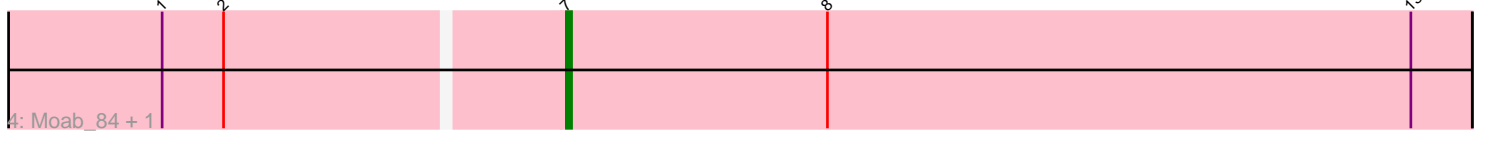
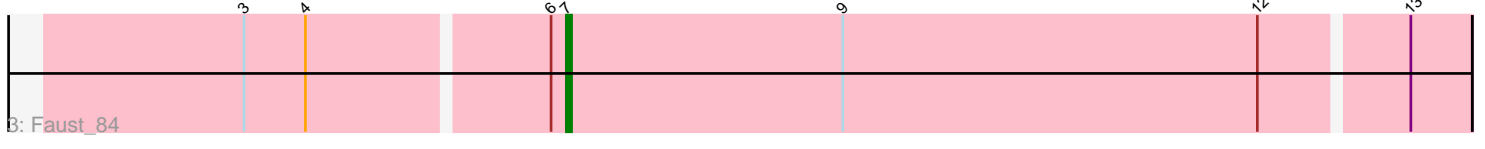
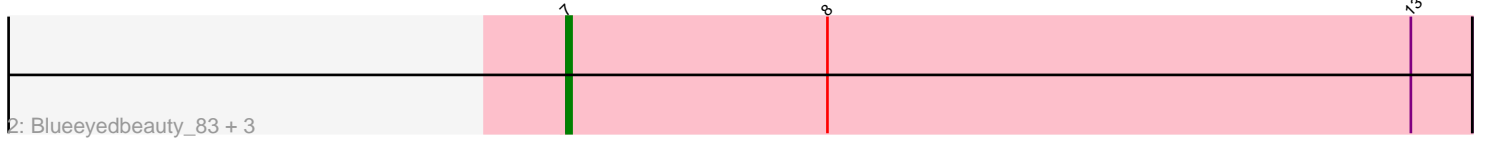
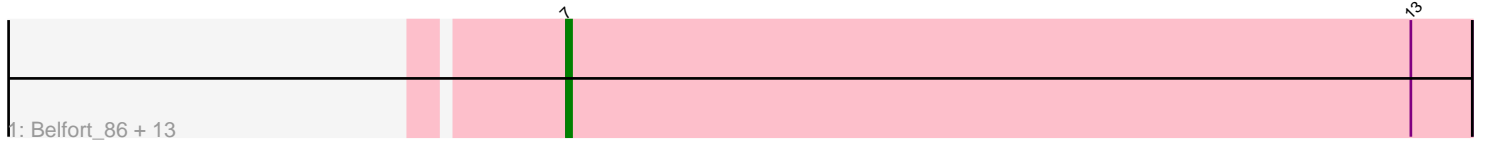


Pham 221660



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 221660 Report

This analysis was run 03/28/25 on database version 593.

Pham number 221660 has 31 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Belfort\_86, SparkleGoddess\_84, Karp\_82, Gilson\_85, Jada\_85, Stigma\_83, Comrade\_84, Emma1919\_86, MeganTheeKilla\_83, Forrest\_87, Westy\_82, Phredrick\_84, Kenrey\_86, Francob\_83
- Track 2 : Blueeyedbeauty\_83, Annadreamy\_82, Limpid\_81, Beuffert\_81
- Track 3 : Faust\_84
- Track 4 : Moab\_84, Patelgo\_84
- Track 5 : Sham\_78
- Track 6 : BillNye\_74, Circinus\_75
- Track 7 : Muntaha\_76, Wakanda\_75
- Track 8 : Trina\_113
- Track 9 : NiceHouse\_100
- Track 10 : Dorin\_87, Francesca\_87
- Track 11 : Nova53\_85

### ***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 29 of the 29 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Annadreamy\_82, Belfort\_86, Beuffert\_81, BillNye\_74, Blueeyedbeauty\_83, Circinus\_75, Comrade\_84, Dorin\_87, Emma1919\_86, Faust\_84, Forrest\_87, Francesca\_87, Francob\_83, Gilson\_85, Jada\_85, Karp\_82, Kenrey\_86, Limpid\_81, MeganTheeKilla\_83, Moab\_84, Muntaha\_76, NiceHouse\_100, Nova53\_85, Patelgo\_84, Phredrick\_84, Sham\_78, SparkleGoddess\_84, Stigma\_83, Trina\_113, Wakanda\_75, Westy\_82,

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 7:

- Found in 31 of 31 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 29 of 29
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Annadreamy\_82 (BK1), Belfort\_86 (BK1), Beuffert\_81 (BK1), BillNye\_74 (BK2), Blueeyedbeauty\_83 (BK1), Circinus\_75 (BK2), Comrade\_84 (BK1), Dorin\_87 (CG), Emma1919\_86 (BK1), Faust\_84 (BK1), Forrest\_87 (BK1), Francesca\_87 (CG), Francob\_83 (BK1), Gilson\_85 (BK1), Jada\_85 (BK1), Karp\_82 (BK1), Kenrey\_86 (BK1), Limpid\_81 (BK1), MeganTheeKilla\_83 (BK1), Moab\_84 (BK1), Muntaha\_76 (BK2), NiceHouse\_100 (CE), Nova53\_85 (CG), Patelgo\_84 (BK1), Phredrick\_84 (BK1), Sham\_78 (BK1), SparkleGoddess\_84 (BK1), Stigma\_83 (BK1), Trina\_113 (CE), Wakanda\_75 (BK2), Westy\_82 (BK1),

**Summary by clusters:**

There are 4 clusters represented in this pham: BK2, CG, BK1, CE,

Info for manual annotations of cluster BK1:

- Start number 7 was manually annotated 21 times for cluster BK1.

Info for manual annotations of cluster BK2:

- Start number 7 was manually annotated 4 times for cluster BK2.

Info for manual annotations of cluster CE:

- Start number 7 was manually annotated 2 times for cluster CE.

Info for manual annotations of cluster CG:

- Start number 7 was manually annotated 2 times for cluster CG.

**Gene Information:**

Gene: Annadreamy\_82 Start: 61047, Stop: 61223, Start Num: 7

Candidate Starts for Annadreamy\_82:

(Start: 7 @61047 has 29 MA's), (8, 61098), (13, 61212),

Gene: Belfort\_86 Start: 62871, Stop: 63047, Start Num: 7

Candidate Starts for Belfort\_86:

(Start: 7 @62871 has 29 MA's), (13, 63036),

Gene: Beuffert\_81 Start: 61597, Stop: 61773, Start Num: 7

Candidate Starts for Beuffert\_81:

(Start: 7 @61597 has 29 MA's), (8, 61648), (13, 61762),

Gene: BillNye\_74 Start: 62159, Stop: 62332, Start Num: 7

Candidate Starts for BillNye\_74:

(Start: 7 @62159 has 29 MA's),

Gene: Blueeyedbeauty\_83 Start: 60999, Stop: 61175, Start Num: 7

Candidate Starts for Blueeyedbeauty\_83:

(Start: 7 @60999 has 29 MA's), (8, 61050), (13, 61164),

Gene: Circinus\_75 Start: 62146, Stop: 62319, Start Num: 7  
Candidate Starts for Circinus\_75:  
(Start: 7 @62146 has 29 MA's),

Gene: Comrade\_84 Start: 62487, Stop: 62663, Start Num: 7  
Candidate Starts for Comrade\_84:  
(Start: 7 @62487 has 29 MA's), (13, 62652),

Gene: Dorin\_87 Start: 68392, Stop: 68544, Start Num: 7  
Candidate Starts for Dorin\_87:  
(Start: 7 @68392 has 29 MA's), (10, 68476), (14, 68536),

Gene: Emma1919\_86 Start: 61210, Stop: 61386, Start Num: 7  
Candidate Starts for Emma1919\_86:  
(Start: 7 @61210 has 29 MA's), (13, 61375),

Gene: Faust\_84 Start: 62423, Stop: 62596, Start Num: 7  
Candidate Starts for Faust\_84:  
(3, 62363), (4, 62375), (6, 62420), (Start: 7 @62423 has 29 MA's), (9, 62477), (12, 62558), (13, 62585),

Gene: Forrest\_87 Start: 62503, Stop: 62679, Start Num: 7  
Candidate Starts for Forrest\_87:  
(Start: 7 @62503 has 29 MA's), (13, 62668),

Gene: Francesca\_87 Start: 69130, Stop: 69282, Start Num: 7  
Candidate Starts for Francesca\_87:  
(Start: 7 @69130 has 29 MA's), (10, 69214), (14, 69274),

Gene: Francob\_83 Start: 61249, Stop: 61425, Start Num: 7  
Candidate Starts for Francob\_83:  
(Start: 7 @61249 has 29 MA's), (13, 61414),

Gene: Gilson\_85 Start: 61172, Stop: 61348, Start Num: 7  
Candidate Starts for Gilson\_85:  
(Start: 7 @61172 has 29 MA's), (13, 61337),

Gene: Jada\_85 Start: 61685, Stop: 61861, Start Num: 7  
Candidate Starts for Jada\_85:  
(Start: 7 @61685 has 29 MA's), (13, 61850),

Gene: Karp\_82 Start: 62080, Stop: 62256, Start Num: 7  
Candidate Starts for Karp\_82:  
(Start: 7 @62080 has 29 MA's), (13, 62245),

Gene: Kenrey\_86 Start: 61386, Stop: 61562, Start Num: 7  
Candidate Starts for Kenrey\_86:  
(Start: 7 @61386 has 29 MA's), (13, 61551),

Gene: Limpid\_81 Start: 61046, Stop: 61222, Start Num: 7  
Candidate Starts for Limpid\_81:  
(Start: 7 @61046 has 29 MA's), (8, 61097), (13, 61211),

Gene: MeganTheeKilla\_83 Start: 60533, Stop: 60709, Start Num: 7  
Candidate Starts for MeganTheeKilla\_83:  
(Start: 7 @60533 has 29 MA's), (13, 60698),

Gene: Moab\_84 Start: 62445, Stop: 62621, Start Num: 7  
Candidate Starts for Moab\_84:  
(1, 62370), (2, 62382), (Start: 7 @62445 has 29 MA's), (8, 62496), (13, 62610),

Gene: Muntaha\_76 Start: 60630, Stop: 60800, Start Num: 7  
Candidate Starts for Muntaha\_76:  
(Start: 7 @60630 has 29 MA's), (13, 60789),

Gene: NiceHouse\_100 Start: 72960, Stop: 73106, Start Num: 7  
Candidate Starts for NiceHouse\_100:  
(5, 72954), (Start: 7 @72960 has 29 MA's), (10, 73044), (14, 73098),

Gene: Nova53\_85 Start: 67957, Stop: 68109, Start Num: 7  
Candidate Starts for Nova53\_85:  
(Start: 7 @67957 has 29 MA's), (14, 68101),

Gene: Patelgo\_84 Start: 62608, Stop: 62784, Start Num: 7  
Candidate Starts for Patelgo\_84:  
(1, 62533), (2, 62545), (Start: 7 @62608 has 29 MA's), (8, 62659), (13, 62773),

Gene: Phredrick\_84 Start: 60466, Stop: 60642, Start Num: 7  
Candidate Starts for Phredrick\_84:  
(Start: 7 @60466 has 29 MA's), (13, 60631),

Gene: Sham\_78 Start: 61565, Stop: 61738, Start Num: 7  
Candidate Starts for Sham\_78:  
(4, 61517), (Start: 7 @61565 has 29 MA's), (9, 61619),

Gene: SparkleGoddess\_84 Start: 62488, Stop: 62664, Start Num: 7  
Candidate Starts for SparkleGoddess\_84:  
(Start: 7 @62488 has 29 MA's), (13, 62653),

Gene: Stigma\_83 Start: 62496, Stop: 62672, Start Num: 7  
Candidate Starts for Stigma\_83:  
(Start: 7 @62496 has 29 MA's), (13, 62661),

Gene: Trina\_113 Start: 76145, Stop: 76291, Start Num: 7  
Candidate Starts for Trina\_113:  
(Start: 7 @76145 has 29 MA's), (11, 76238), (14, 76283),

Gene: Wakanda\_75 Start: 60567, Stop: 60737, Start Num: 7  
Candidate Starts for Wakanda\_75:  
(Start: 7 @60567 has 29 MA's), (13, 60726),

Gene: Westy\_82 Start: 62488, Stop: 62664, Start Num: 7  
Candidate Starts for Westy\_82:  
(Start: 7 @62488 has 29 MA's), (13, 62653),