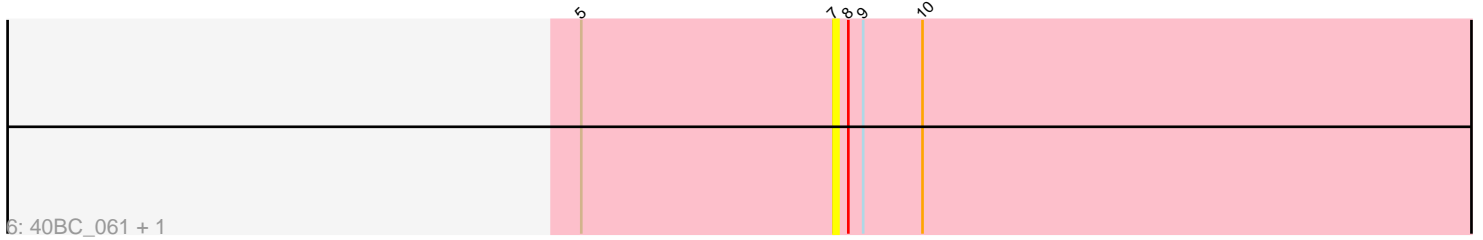
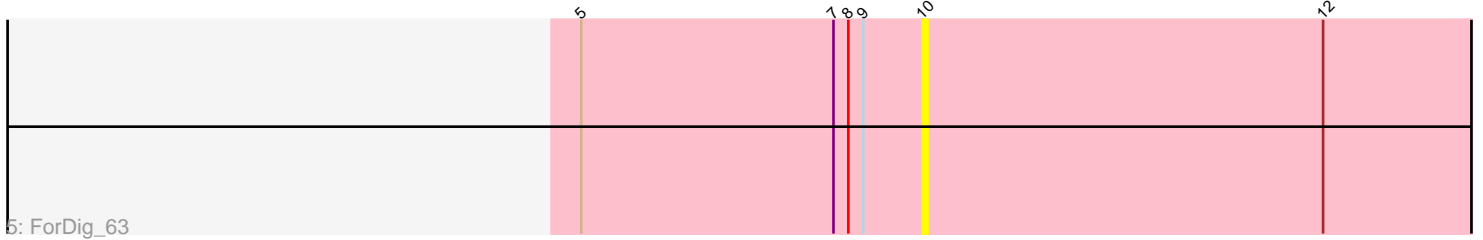
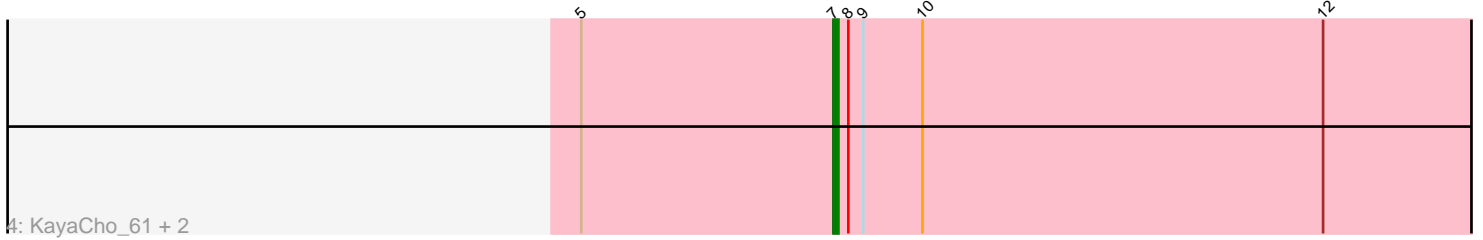
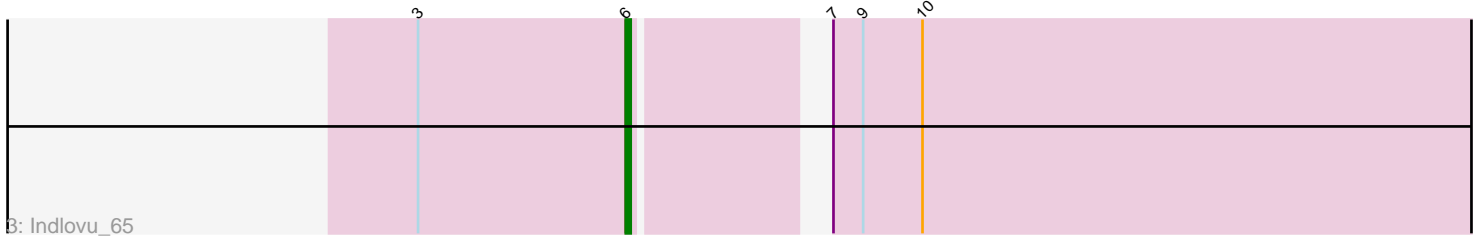
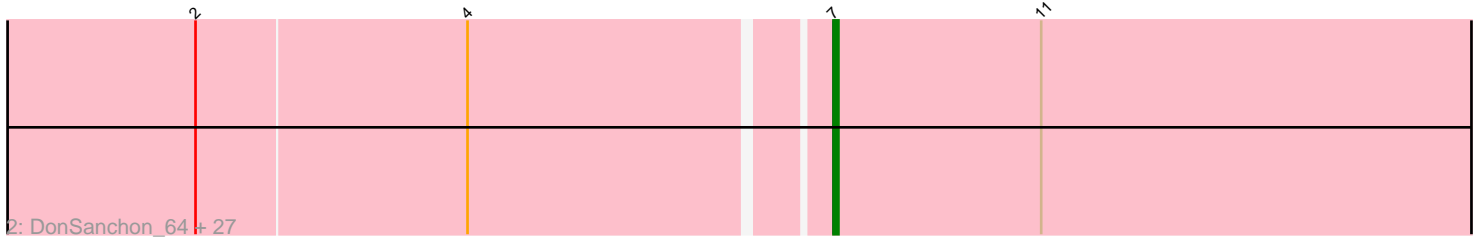
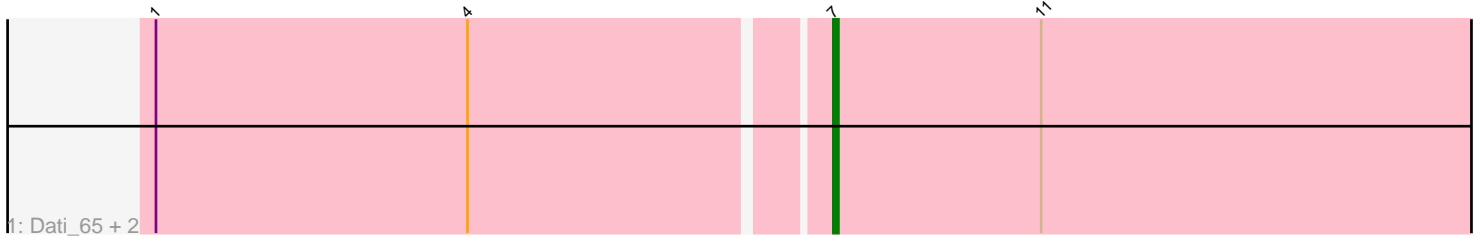


Pham 203113



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 203113 Report

This analysis was run 01/18/25 on database version 583.

Pham number 203113 has 38 members, 8 are drafts.

Phages represented in each track:

- Track 1 : Dati\_65, Melc17\_65, BlueHusk\_69
- Track 2 : DonSanchon\_64, Dingo\_65, MiniBoss\_65, Grand2040\_66, Hamish\_65, AltPhacts\_66, Buckeye\_68, Mikota\_65, MelsMeow\_67, Potter\_65, Maskar\_68, Chorkpop\_68, Nathan\_68, BlackStallion\_68, Phareon\_66, Lasso\_67, Sheila\_64, Adriana\_69, ElvisPhasley\_73, ImtiyazSitla\_68, Horchata\_65, GeneCoco\_68, Caspiboi\_69, Scrick\_67, Inverness\_66, Basato\_67, Ashraf\_68, Gyarad\_0067
- Track 3 : Indlovu\_65
- Track 4 : KayaCho\_61, Hosp\_059, Jolie1\_061
- Track 5 : ForDig\_63
- Track 6 : 40BC\_061, 39HC\_061

### ***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 30 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 39HC\_061, 40BC\_061, Adriana\_69, AltPhacts\_66, Ashraf\_68, Basato\_67, BlackStallion\_68, BlueHusk\_69, Buckeye\_68, Caspiboi\_69, Chorkpop\_68, Dati\_65, Dingo\_65, DonSanchon\_64, ElvisPhasley\_73, GeneCoco\_68, Grand2040\_66, Gyarad\_0067, Hamish\_65, Horchata\_65, Hosp\_059, ImtiyazSitla\_68, Inverness\_66, Jolie1\_061, KayaCho\_61, Lasso\_67, Maskar\_68, Melc17\_65, MelsMeow\_67, Mikota\_65, MiniBoss\_65, Nathan\_68, Phareon\_66, Potter\_65, Scrick\_67, Sheila\_64,

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

- ForDig\_63, Indlovu\_65,

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

- 

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

Start 6:

- Found in 1 of 38 ( 2.6% ) of genes in pham

- Manual Annotations of this start: 1 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Indlovu\_65 (B11),

#### Start 7:

- Found in 38 of 38 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 29 of 30
- Called 94.7% of time when present
- Phage (with cluster) where this start called: 39HC\_061 (B6), 40BC\_061 (B6), Adriana\_69 (B1), AltPhacts\_66 (B1), Ashraf\_68 (B1), Basato\_67 (B1), BlackStallion\_68 (B1), BlueHusk\_69 (B1), Buckeye\_68 (B1), Caspiboi\_69 (B1), Chorkpop\_68 (B1), Dati\_65 (B1), Dingo\_65 (B1), DonSanchon\_64 (B1), ElvisPhasley\_73 (B1), GeneCoco\_68 (B1), Grand2040\_66 (B1), Gyarad\_0067 (B1), Hamish\_65 (B1), Horchata\_65 (B1), Hosp\_059 (B6), ImtiyazSitla\_68 (B1), Inverness\_66 (B1), Jolie1\_061 (B6), KayaCho\_61 (B6), Lasso\_67 (B1), Maskar\_68 (B1), Melc17\_65 (B1), MelsMeow\_67 (B1), Mikota\_65 (B1), MiniBoss\_65 (B1), Nathan\_68 (B1), Phareon\_66 (B1), Potter\_65 (B1), Scrick\_67 (B1), Sheila\_64 (B1),

#### Start 10:

- Found in 7 of 38 ( 18.4% ) of genes in pham
- No Manual Annotations of this start.
- Called 14.3% of time when present
- Phage (with cluster) where this start called: ForDig\_63 (B6),

### **Summary by clusters:**

There are 3 clusters represented in this pham: B6, B1, B11,

Info for manual annotations of cluster B1:

- Start number 7 was manually annotated 28 times for cluster B1.

Info for manual annotations of cluster B11:

- Start number 6 was manually annotated 1 time for cluster B11.

Info for manual annotations of cluster B6:

- Start number 7 was manually annotated 1 time for cluster B6.

### **Gene Information:**

Gene: 39HC\_061 Start: 56330, Stop: 56530, Start Num: 7

Candidate Starts for 39HC\_061:

(5, 56279), (Start: 7 @56330 has 29 MA's), (8, 56333), (9, 56336), (10, 56348),

Gene: 40BC\_061 Start: 56330, Stop: 56530, Start Num: 7

Candidate Starts for 40BC\_061:

(5, 56279), (Start: 7 @56330 has 29 MA's), (8, 56333), (9, 56336), (10, 56348),

Gene: Adriana\_69 Start: 57994, Stop: 58173, Start Num: 7

Candidate Starts for Adriana\_69:

(2, 57871), (4, 57925), (Start: 7 @57994 has 29 MA's), (11, 58036),

Gene: AltPhacts\_66 Start: 56481, Stop: 56660, Start Num: 7  
Candidate Starts for AltPhacts\_66:  
(2, 56358), (4, 56412), (Start: 7 @56481 has 29 MA's), (11, 56523),

Gene: Ashraf\_68 Start: 57146, Stop: 57325, Start Num: 7  
Candidate Starts for Ashraf\_68:  
(2, 57023), (4, 57077), (Start: 7 @57146 has 29 MA's), (11, 57188),

Gene: Basato\_67 Start: 57199, Stop: 57378, Start Num: 7  
Candidate Starts for Basato\_67:  
(2, 57076), (4, 57130), (Start: 7 @57199 has 29 MA's), (11, 57241),

Gene: BlackStallion\_68 Start: 57193, Stop: 57372, Start Num: 7  
Candidate Starts for BlackStallion\_68:  
(2, 57070), (4, 57124), (Start: 7 @57193 has 29 MA's), (11, 57235),

Gene: BlueHusk\_69 Start: 56949, Stop: 57128, Start Num: 7  
Candidate Starts for BlueHusk\_69:  
(1, 56817), (4, 56880), (Start: 7 @56949 has 29 MA's), (11, 56991),

Gene: Buckeye\_68 Start: 58013, Stop: 58192, Start Num: 7  
Candidate Starts for Buckeye\_68:  
(2, 57890), (4, 57944), (Start: 7 @58013 has 29 MA's), (11, 58055),

Gene: Caspiboi\_69 Start: 57156, Stop: 57335, Start Num: 7  
Candidate Starts for Caspiboi\_69:  
(2, 57033), (4, 57087), (Start: 7 @57156 has 29 MA's), (11, 57198),

Gene: Chorkpop\_68 Start: 56930, Stop: 57109, Start Num: 7  
Candidate Starts for Chorkpop\_68:  
(2, 56807), (4, 56861), (Start: 7 @56930 has 29 MA's), (11, 56972),

Gene: Dati\_65 Start: 57259, Stop: 57438, Start Num: 7  
Candidate Starts for Dati\_65:  
(1, 57127), (4, 57190), (Start: 7 @57259 has 29 MA's), (11, 57301),

Gene: Dingo\_65 Start: 56457, Stop: 56636, Start Num: 7  
Candidate Starts for Dingo\_65:  
(2, 56334), (4, 56388), (Start: 7 @56457 has 29 MA's), (11, 56499),

Gene: DonSanchon\_64 Start: 56612, Stop: 56791, Start Num: 7  
Candidate Starts for DonSanchon\_64:  
(2, 56489), (4, 56543), (Start: 7 @56612 has 29 MA's), (11, 56654),

Gene: ElvisPhasley\_73 Start: 57946, Stop: 58125, Start Num: 7  
Candidate Starts for ElvisPhasley\_73:  
(2, 57823), (4, 57877), (Start: 7 @57946 has 29 MA's), (11, 57988),

Gene: ForDig\_63 Start: 56660, Stop: 56842, Start Num: 10  
Candidate Starts for ForDig\_63:  
(5, 56591), (Start: 7 @56642 has 29 MA's), (8, 56645), (9, 56648), (10, 56660), (12, 56741),

Gene: GeneCoco\_68 Start: 57462, Stop: 57641, Start Num: 7

Candidate Starts for GeneCoco\_68:

(2, 57339), (4, 57393), (Start: 7 @57462 has 29 MA's), (11, 57504),

Gene: Grand2040\_66 Start: 57405, Stop: 57584, Start Num: 7

Candidate Starts for Grand2040\_66:

(2, 57282), (4, 57336), (Start: 7 @57405 has 29 MA's), (11, 57447),

Gene: Gyarad\_0067 Start: 56782, Stop: 56961, Start Num: 7

Candidate Starts for Gyarad\_0067:

(2, 56659), (4, 56713), (Start: 7 @56782 has 29 MA's), (11, 56824),

Gene: Hamish\_65 Start: 56845, Stop: 57024, Start Num: 7

Candidate Starts for Hamish\_65:

(2, 56722), (4, 56776), (Start: 7 @56845 has 29 MA's), (11, 56887),

Gene: Horchata\_65 Start: 56937, Stop: 57116, Start Num: 7

Candidate Starts for Horchata\_65:

(2, 56814), (4, 56868), (Start: 7 @56937 has 29 MA's), (11, 56979),

Gene: Hosp\_059 Start: 54555, Stop: 54755, Start Num: 7

Candidate Starts for Hosp\_059:

(5, 54504), (Start: 7 @54555 has 29 MA's), (8, 54558), (9, 54561), (10, 54573), (12, 54654),

Gene: ImtiyazSitla\_68 Start: 57146, Stop: 57325, Start Num: 7

Candidate Starts for ImtiyazSitla\_68:

(2, 57023), (4, 57077), (Start: 7 @57146 has 29 MA's), (11, 57188),

Gene: Indlovu\_65 Start: 58320, Stop: 58526, Start Num: 6

Candidate Starts for Indlovu\_65:

(3, 58278), (Start: 6 @58320 has 1 MA's), (Start: 7 @58353 has 29 MA's), (9, 58359), (10, 58371),

Gene: Inverness\_66 Start: 56946, Stop: 57125, Start Num: 7

Candidate Starts for Inverness\_66:

(2, 56823), (4, 56877), (Start: 7 @56946 has 29 MA's), (11, 56988),

Gene: Jolie1\_061 Start: 56473, Stop: 56673, Start Num: 7

Candidate Starts for Jolie1\_061:

(5, 56422), (Start: 7 @56473 has 29 MA's), (8, 56476), (9, 56479), (10, 56491), (12, 56572),

Gene: KayaCho\_61 Start: 56583, Stop: 56783, Start Num: 7

Candidate Starts for KayaCho\_61:

(5, 56532), (Start: 7 @56583 has 29 MA's), (8, 56586), (9, 56589), (10, 56601), (12, 56682),

Gene: Lasso\_67 Start: 57164, Stop: 57343, Start Num: 7

Candidate Starts for Lasso\_67:

(2, 57041), (4, 57095), (Start: 7 @57164 has 29 MA's), (11, 57206),

Gene: Maskar\_68 Start: 57146, Stop: 57325, Start Num: 7

Candidate Starts for Maskar\_68:

(2, 57023), (4, 57077), (Start: 7 @57146 has 29 MA's), (11, 57188),

Gene: Melc17\_65 Start: 57547, Stop: 57726, Start Num: 7

Candidate Starts for Melc17\_65:

(1, 57415), (4, 57478), (Start: 7 @57547 has 29 MA's), (11, 57589),

Gene: MelsMeow\_67 Start: 57199, Stop: 57378, Start Num: 7

Candidate Starts for MelsMeow\_67:

(2, 57076), (4, 57130), (Start: 7 @57199 has 29 MA's), (11, 57241),

Gene: Mikota\_65 Start: 56445, Stop: 56624, Start Num: 7

Candidate Starts for Mikota\_65:

(2, 56322), (4, 56376), (Start: 7 @56445 has 29 MA's), (11, 56487),

Gene: MiniBoss\_65 Start: 56250, Stop: 56429, Start Num: 7

Candidate Starts for MiniBoss\_65:

(2, 56127), (4, 56181), (Start: 7 @56250 has 29 MA's), (11, 56292),

Gene: Nathan\_68 Start: 57281, Stop: 57460, Start Num: 7

Candidate Starts for Nathan\_68:

(2, 57158), (4, 57212), (Start: 7 @57281 has 29 MA's), (11, 57323),

Gene: Phareon\_66 Start: 56635, Stop: 56814, Start Num: 7

Candidate Starts for Phareon\_66:

(2, 56512), (4, 56566), (Start: 7 @56635 has 29 MA's), (11, 56677),

Gene: Potter\_65 Start: 56927, Stop: 57106, Start Num: 7

Candidate Starts for Potter\_65:

(2, 56804), (4, 56858), (Start: 7 @56927 has 29 MA's), (11, 56969),

Gene: Scrick\_67 Start: 56929, Stop: 57108, Start Num: 7

Candidate Starts for Scrick\_67:

(2, 56806), (4, 56860), (Start: 7 @56929 has 29 MA's), (11, 56971),

Gene: Sheila\_64 Start: 56299, Stop: 56478, Start Num: 7

Candidate Starts for Sheila\_64:

(2, 56176), (4, 56230), (Start: 7 @56299 has 29 MA's), (11, 56341),