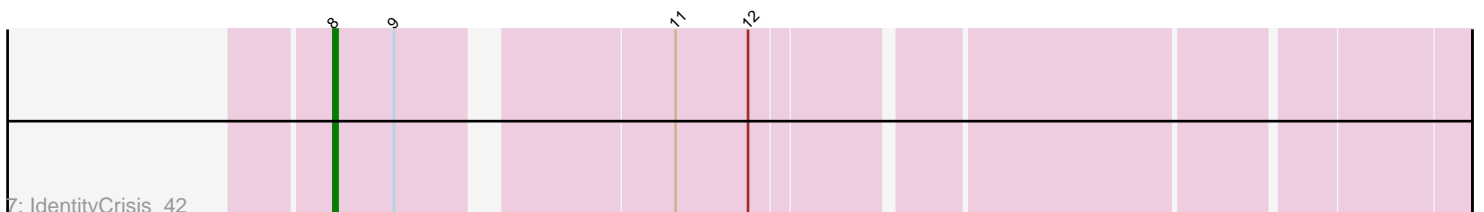
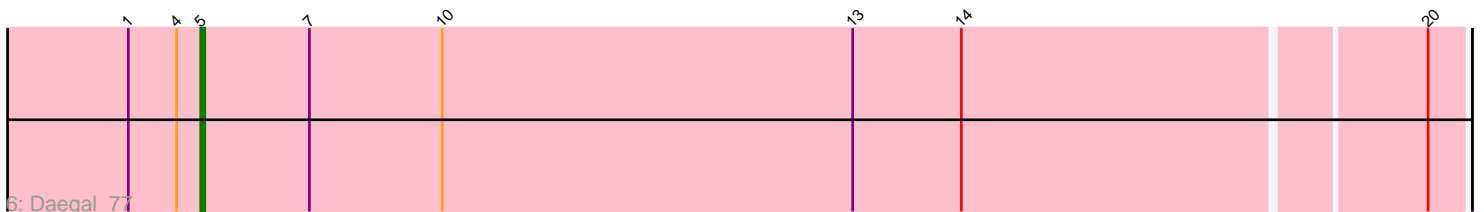
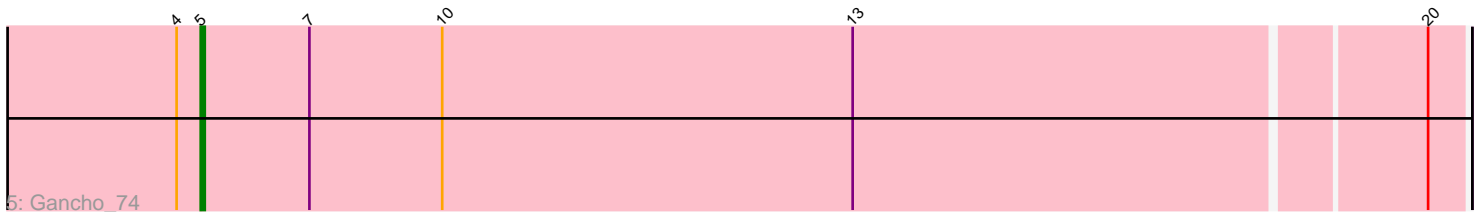
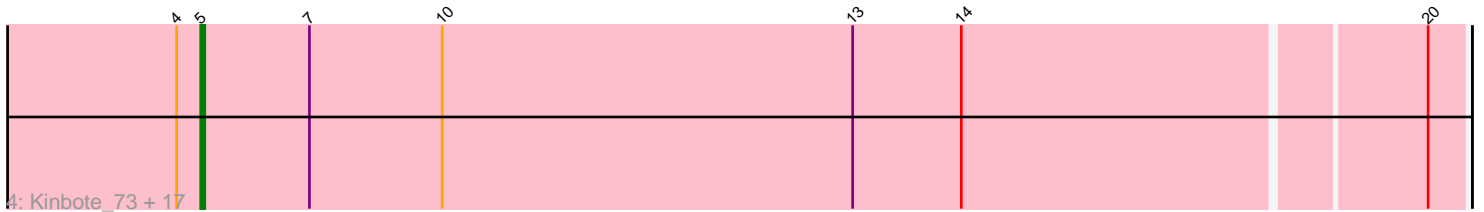
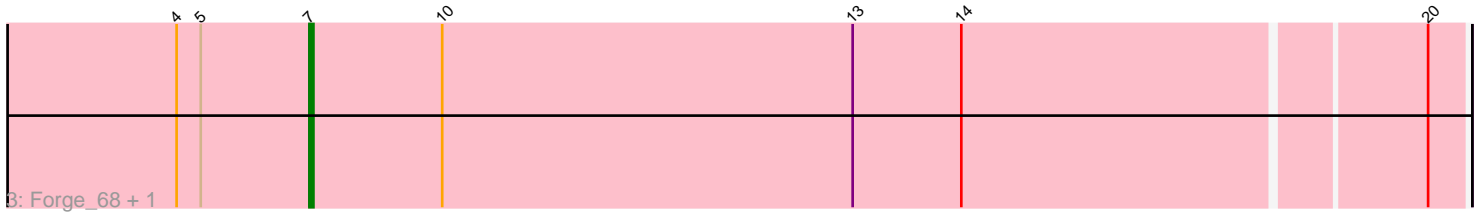
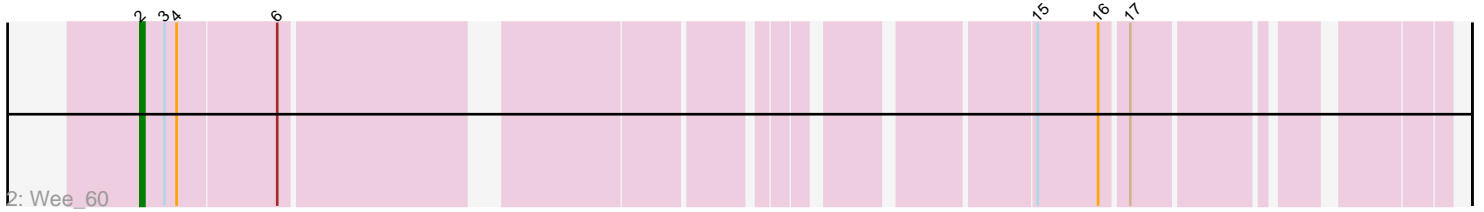
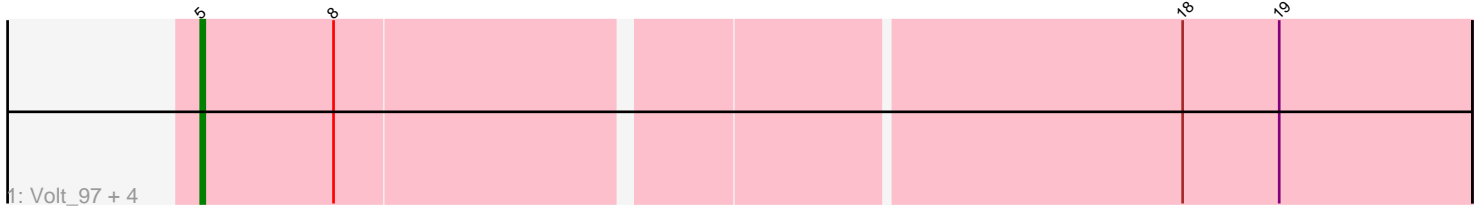


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 216441 Report

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

Pham number 216441 has 29 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Volt\_97, Ronaldo\_96, Fryberger\_93, Ziko\_96, Guey18\_98
- Track 2 : Wee\_60
- Track 3 : Forge\_68, Wishmaker\_68
- Track 4 : Kinbote\_73, Ubuntu\_75, Dewey\_68, Hadrien\_72, Evanesce\_74, LilHazelnut\_75, Webster2\_75, Amymech\_75, Ein37\_75, Hail\_68, OBUpride\_74, Luna22\_68, HH92\_74, DeepSoil15\_75, Luke\_72, Gravaillia\_69, Amochick\_76, Giles\_68
- Track 5 : Gancho\_74
- Track 6 : Daegal\_77
- Track 7 : IdentityCrisis\_42

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

The start number called the most often in the published annotations is 5, it was called in 25 of the 29 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amochick\_76, Amymech\_75, Daegal\_77, DeepSoil15\_75, Dewey\_68, Ein37\_75, Evanesce\_74, Fryberger\_93, Gancho\_74, Giles\_68, Gravaillia\_69, Guey18\_98, HH92\_74, Hadrien\_72, Hail\_68, Kinbote\_73, LilHazelnut\_75, Luke\_72, Luna22\_68, OBUpride\_74, Ronaldo\_96, Ubuntu\_75, Volt\_97, Webster2\_75, Ziko\_96,

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

- Forge\_68, Wishmaker\_68,

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

- IdentityCrisis\_42, Wee\_60,

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

Start 2:

- Found in 1 of 29 ( 3.4% ) of genes in pham
- Manual Annotations of this start: 1 of 29
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Wee\_60 (F1),

#### Start 5:

- Found in 27 of 29 ( 93.1% ) of genes in pham
- Manual Annotations of this start: 25 of 29
- Called 92.6% of time when present
- Phage (with cluster) where this start called: Amochick\_76 (Q), Amymech\_75 (Q), Daegal\_77 (Q), DeepSoil15\_75 (Q), Dewey\_68 (Q), Ein37\_75 (Q), Evanesce\_74 (Q), Fryberger\_93 (DP), Gancho\_74 (Q), Giles\_68 (Q), Gravaillia\_69 (Q), Guey18\_98 (DP), HH92\_74 (Q), Hadrien\_72 (Q), Hail\_68 (Q), Kinbote\_73 (Q), LilHazelnut\_75 (Q), Luke\_72 (Q), Luna22\_68 (Q), OBUpride\_74 (Q), Ronaldo\_96 (DP), Ubuntu\_75 (Q), Volt\_97 (DP), Webster2\_75 (Q), Ziko\_96 (DP),

#### Start 7:

- Found in 22 of 29 ( 75.9% ) of genes in pham
- Manual Annotations of this start: 2 of 29
- Called 9.1% of time when present
- Phage (with cluster) where this start called: Forge\_68 (Q), Wishmaker\_68 (Q),

#### Start 8:

- Found in 6 of 29 ( 20.7% ) of genes in pham
- Manual Annotations of this start: 1 of 29
- Called 16.7% of time when present
- Phage (with cluster) where this start called: IdentityCrisis\_42 (singleton),

### Summary by clusters:

There are 4 clusters represented in this pham: Q, F1, singleton, DP,

Info for manual annotations of cluster DP:

- Start number 5 was manually annotated 5 times for cluster DP.

Info for manual annotations of cluster F1:

- Start number 2 was manually annotated 1 time for cluster F1.

Info for manual annotations of cluster Q:

- Start number 5 was manually annotated 20 times for cluster Q.
- Start number 7 was manually annotated 2 times for cluster Q.

### Gene Information:

Gene: Amochick\_76 Start: 49396, Stop: 49704, Start Num: 5

Candidate Starts for Amochick\_76:

(4, 49390), (Start: 5 @49396 has 25 MA's), (Start: 7 @49423 has 2 MA's), (10, 49456), (13, 49558), (14, 49585), (20, 49696),

Gene: Amymech\_75 Start: 48849, Stop: 49157, Start Num: 5

Candidate Starts for Amymech\_75:

(4, 48843), (Start: 5 @48849 has 25 MA's), (Start: 7 @48876 has 2 MA's), (10, 48909), (13, 49011), (14, 49038), (20, 49149),

Gene: Daegal\_77 Start: 49955, Stop: 50263, Start Num: 5

Candidate Starts for Daegal\_77:

(1, 49937), (4, 49949), (Start: 5 @49955 has 25 MA's), (Start: 7 @49982 has 2 MA's), (10, 50015), (13, 50117), (14, 50144), (20, 50255),

Gene: DeepSoil15\_75 Start: 48849, Stop: 49157, Start Num: 5

Candidate Starts for DeepSoil15\_75:

(4, 48843), (Start: 5 @48849 has 25 MA's), (Start: 7 @48876 has 2 MA's), (10, 48909), (13, 49011), (14, 49038), (20, 49149),

Gene: Dewey\_68 Start: 48849, Stop: 49157, Start Num: 5

Candidate Starts for Dewey\_68:

(4, 48843), (Start: 5 @48849 has 25 MA's), (Start: 7 @48876 has 2 MA's), (10, 48909), (13, 49011), (14, 49038), (20, 49149),

Gene: Ein37\_75 Start: 48849, Stop: 49157, Start Num: 5

Candidate Starts for Ein37\_75:

(4, 48843), (Start: 5 @48849 has 25 MA's), (Start: 7 @48876 has 2 MA's), (10, 48909), (13, 49011), (14, 49038), (20, 49149),

Gene: Evanesce\_74 Start: 48849, Stop: 49157, Start Num: 5

Candidate Starts for Evanesce\_74:

(4, 48843), (Start: 5 @48849 has 25 MA's), (Start: 7 @48876 has 2 MA's), (10, 48909), (13, 49011), (14, 49038), (20, 49149),

Gene: Forge\_68 Start: 48876, Stop: 49157, Start Num: 7

Candidate Starts for Forge\_68:

(4, 48843), (Start: 5 @48849 has 25 MA's), (Start: 7 @48876 has 2 MA's), (10, 48909), (13, 49011), (14, 49038), (20, 49149),

Gene: Fryberger\_93 Start: 47445, Stop: 47750, Start Num: 5

Candidate Starts for Fryberger\_93:

(Start: 5 @47445 has 25 MA's), (Start: 8 @47478 has 1 MA's), (18, 47679), (19, 47703),

Gene: Gancho\_74 Start: 48624, Stop: 48932, Start Num: 5

Candidate Starts for Gancho\_74:

(4, 48618), (Start: 5 @48624 has 25 MA's), (Start: 7 @48651 has 2 MA's), (10, 48684), (13, 48786), (20, 48924),

Gene: Giles\_68 Start: 48849, Stop: 49157, Start Num: 5

Candidate Starts for Giles\_68:

(4, 48843), (Start: 5 @48849 has 25 MA's), (Start: 7 @48876 has 2 MA's), (10, 48909), (13, 49011), (14, 49038), (20, 49149),

Gene: Gravaillia\_69 Start: 48905, Stop: 49213, Start Num: 5

Candidate Starts for Gravaillia\_69:

(4, 48899), (Start: 5 @48905 has 25 MA's), (Start: 7 @48932 has 2 MA's), (10, 48965), (13, 49067), (14, 49094), (20, 49205),

Gene: Guey18\_98 Start: 48765, Stop: 49070, Start Num: 5

Candidate Starts for Guey18\_98:

(Start: 5 @48765 has 25 MA's), (Start: 8 @48798 has 1 MA's), (18, 48999), (19, 49023),

Gene: HH92\_74 Start: 48849, Stop: 49157, Start Num: 5

Candidate Starts for HH92\_74:

(4, 48843), (Start: 5 @48849 has 25 MA's), (Start: 7 @48876 has 2 MA's), (10, 48909), (13, 49011), (14, 49038), (20, 49149),

Gene: Hadrien\_72 Start: 48849, Stop: 49157, Start Num: 5

Candidate Starts for Hadrien\_72:

(4, 48843), (Start: 5 @48849 has 25 MA's), (Start: 7 @48876 has 2 MA's), (10, 48909), (13, 49011), (14, 49038), (20, 49149),

Gene: Hail\_68 Start: 48849, Stop: 49157, Start Num: 5

Candidate Starts for Hail\_68:

(4, 48843), (Start: 5 @48849 has 25 MA's), (Start: 7 @48876 has 2 MA's), (10, 48909), (13, 49011), (14, 49038), (20, 49149),

Gene: IdentityCrisis\_42 Start: 29075, Stop: 29332, Start Num: 8

Candidate Starts for IdentityCrisis\_42:

(Start: 8 @29075 has 1 MA's), (9, 29090), (11, 29150), (12, 29168),

Gene: Kinbote\_73 Start: 48849, Stop: 49157, Start Num: 5

Candidate Starts for Kinbote\_73:

(4, 48843), (Start: 5 @48849 has 25 MA's), (Start: 7 @48876 has 2 MA's), (10, 48909), (13, 49011), (14, 49038), (20, 49149),

Gene: LilHazelnut\_75 Start: 48849, Stop: 49157, Start Num: 5

Candidate Starts for LilHazelnut\_75:

(4, 48843), (Start: 5 @48849 has 25 MA's), (Start: 7 @48876 has 2 MA's), (10, 48909), (13, 49011), (14, 49038), (20, 49149),

Gene: Luke\_72 Start: 48804, Stop: 49112, Start Num: 5

Candidate Starts for Luke\_72:

(4, 48798), (Start: 5 @48804 has 25 MA's), (Start: 7 @48831 has 2 MA's), (10, 48864), (13, 48966), (14, 48993), (20, 49104),

Gene: Luna22\_68 Start: 48833, Stop: 49141, Start Num: 5

Candidate Starts for Luna22\_68:

(4, 48827), (Start: 5 @48833 has 25 MA's), (Start: 7 @48860 has 2 MA's), (10, 48893), (13, 48995), (14, 49022), (20, 49133),

Gene: OBUpride\_74 Start: 48893, Stop: 49201, Start Num: 5

Candidate Starts for OBUpride\_74:

(4, 48887), (Start: 5 @48893 has 25 MA's), (Start: 7 @48920 has 2 MA's), (10, 48953), (13, 49055), (14, 49082), (20, 49193),

Gene: Ronaldo\_96 Start: 48347, Stop: 48652, Start Num: 5

Candidate Starts for Ronaldo\_96:

(Start: 5 @48347 has 25 MA's), (Start: 8 @48380 has 1 MA's), (18, 48581), (19, 48605),

Gene: Ubuntu\_75 Start: 48849, Stop: 49157, Start Num: 5

Candidate Starts for Ubuntu\_75:

(4, 48843), (Start: 5 @48849 has 25 MA's), (Start: 7 @48876 has 2 MA's), (10, 48909), (13, 49011), (14, 49038), (20, 49149),

Gene: Volt\_97 Start: 48511, Stop: 48816, Start Num: 5

Candidate Starts for Volt\_97:

(Start: 5 @48511 has 25 MA's), (Start: 8 @48544 has 1 MA's), (18, 48745), (19, 48769),

Gene: Webster2\_75 Start: 48849, Stop: 49157, Start Num: 5

Candidate Starts for Webster2\_75:

(4, 48843), (Start: 5 @48849 has 25 MA's), (Start: 7 @48876 has 2 MA's), (10, 48909), (13, 49011),  
(14, 49038), (20, 49149),

Gene: Wee\_60 Start: 40789, Stop: 41067, Start Num: 2

Candidate Starts for Wee\_60:

(Start: 2 @40789 has 1 MA's), (3, 40795), (4, 40798), (6, 40822), (15, 40981), (16, 40996), (17, 41002),

Gene: Wishmaker\_68 Start: 48876, Stop: 49157, Start Num: 7

Candidate Starts for Wishmaker\_68:

(4, 48843), (Start: 5 @48849 has 25 MA's), (Start: 7 @48876 has 2 MA's), (10, 48909), (13, 49011),  
(14, 49038), (20, 49149),

Gene: Ziko\_96 Start: 48332, Stop: 48637, Start Num: 5

Candidate Starts for Ziko\_96:

(Start: 5 @48332 has 25 MA's), (Start: 8 @48365 has 1 MA's), (18, 48566), (19, 48590),