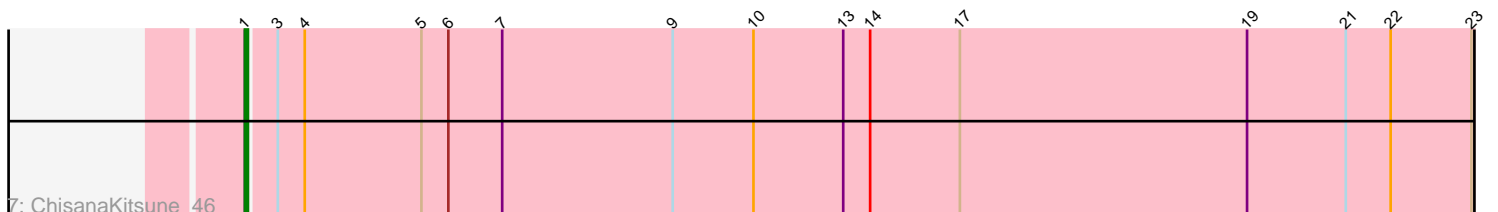
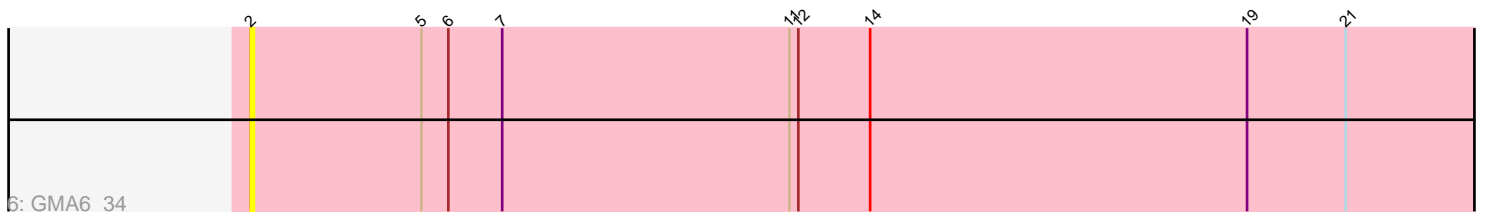
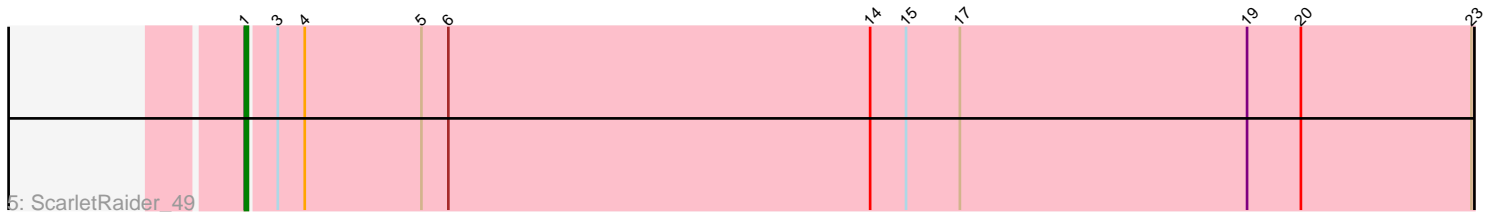
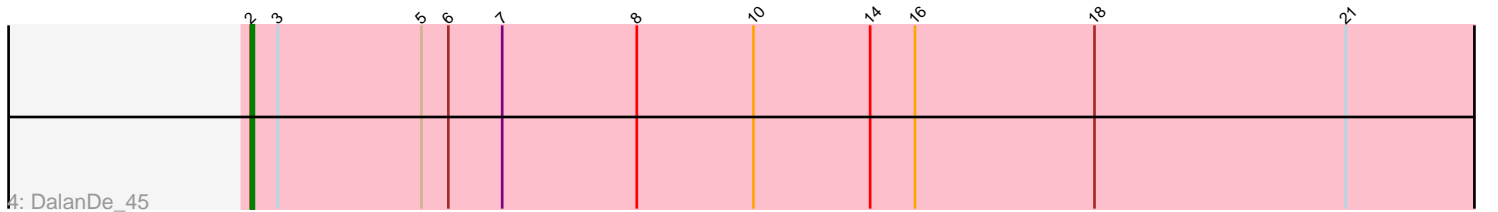
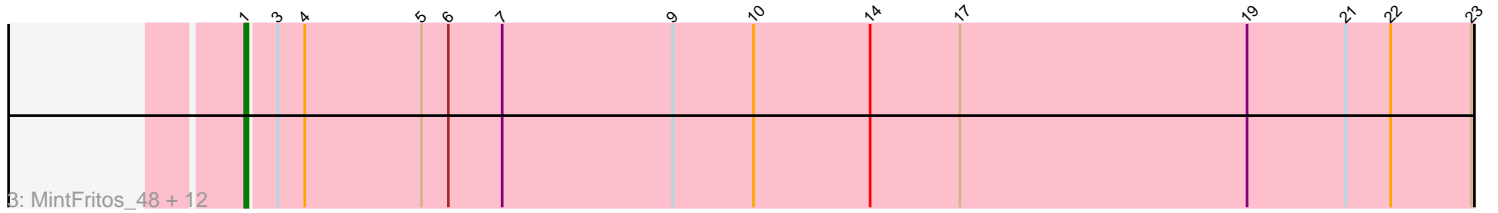
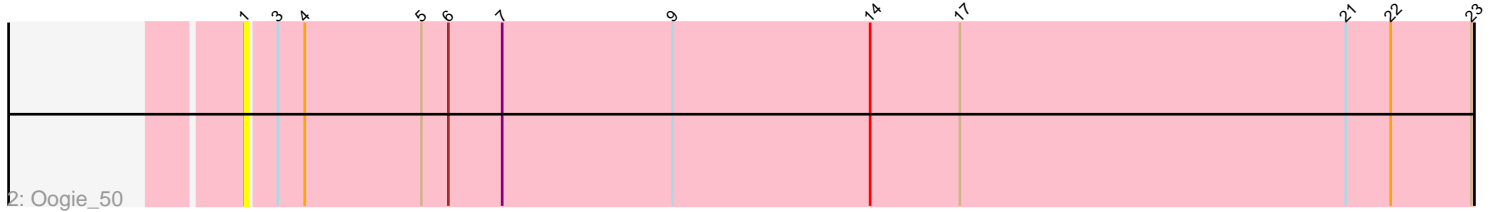
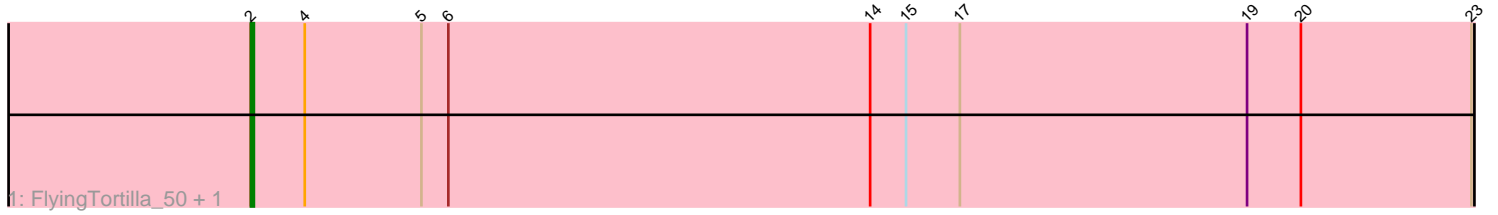


# Zoomed Pham 200612



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 200612 Report

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

Pham number 200612 has 20 members, 10 are drafts.

Phages represented in each track:

- Track 1 : FlyingTortilla\_50, UBSmoodge\_52
- Track 2 : Oogie\_50
- Track 3 : MintFritos\_48, Twin\_48, Pakusa\_48, Kabocha\_51, Beted\_50, Lenoshki\_50, Aloki\_48, Chidiebere\_50, Hanem\_50, Schomber\_49, Toneprano\_48, EmoNemo\_48, Gray\_50
- Track 4 : DalanDe\_45
- Track 5 : ScarletRaider\_49
- Track 6 : GMA6\_34
- Track 7 : ChisanaKitsune\_46

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

The start number called the most often in the published annotations is 1, it was called in 7 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aloki\_48, Beted\_50, Chidiebere\_50, ChisanaKitsune\_46, EmoNemo\_48, Gray\_50, Hanem\_50, Kabocha\_51, Lenoshki\_50, MintFritos\_48, Oogie\_50, Pakusa\_48, ScarletRaider\_49, Schomber\_49, Toneprano\_48, Twin\_48,

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

- 

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

- DalanDe\_45, FlyingTortilla\_50, GMA6\_34, UBSmoodge\_52,

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

Start 1:

- Found in 16 of 20 ( 80.0% ) of genes in pham
- Manual Annotations of this start: 7 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aloki\_48 (DQ), Beted\_50 (DQ), Chidiebere\_50 (DQ), ChisanaKitsune\_46 (DQ), EmoNemo\_48 (DQ), Gray\_50 (DQ),

Hanem\_50 (DQ), Kabocha\_51 (DQ), Lenoshki\_50 (DQ), MintFritos\_48 (DQ),  
Oogie\_50 (DQ), Pakusa\_48 (DQ), ScarletRaider\_49 (DQ), Schomber\_49 (DQ),  
Toneprano\_48 (DQ), Twin\_48 (DQ),

Start 2:

- Found in 4 of 20 ( 20.0% ) 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: DalanDe\_45 (DQ), FlyingTortilla\_50 (DQ), GMA6\_34 (DQ), UBSmoodge\_52 (DQ),

### **Summary by clusters:**

There is one cluster represented in this pham: DQ

Info for manual annotations of cluster DQ:

- Start number 1 was manually annotated 7 times for cluster DQ.
- Start number 2 was manually annotated 3 times for cluster DQ.

### **Gene Information:**

Gene: Alok\_i\_48 Start: 37433, Stop: 38200, Start Num: 1

Candidate Starts for Alok\_i\_48:

(Start: 1 @37433 has 7 MA's), (3, 37442), (4, 37451), (5, 37490), (6, 37499), (7, 37517), (9, 37574),  
(10, 37601), (14, 37640), (17, 37670), (19, 37766), (21, 37799), (22, 37814), (23, 37841), (24, 37847),  
(26, 37925), (27, 37952), (28, 37958), (32, 38063), (33, 38081), (34, 38084), (36, 38183),

Gene: Beted\_50 Start: 39113, Stop: 39880, Start Num: 1

Candidate Starts for Beted\_50:

(Start: 1 @39113 has 7 MA's), (3, 39122), (4, 39131), (5, 39170), (6, 39179), (7, 39197), (9, 39254),  
(10, 39281), (14, 39320), (17, 39350), (19, 39446), (21, 39479), (22, 39494), (23, 39521), (24, 39527),  
(26, 39605), (27, 39632), (28, 39638), (32, 39743), (33, 39761), (34, 39764), (36, 39863),

Gene: Chidiebere\_50 Start: 37433, Stop: 38200, Start Num: 1

Candidate Starts for Chidiebere\_50:

(Start: 1 @37433 has 7 MA's), (3, 37442), (4, 37451), (5, 37490), (6, 37499), (7, 37517), (9, 37574),  
(10, 37601), (14, 37640), (17, 37670), (19, 37766), (21, 37799), (22, 37814), (23, 37841), (24, 37847),  
(26, 37925), (27, 37952), (28, 37958), (32, 38063), (33, 38081), (34, 38084), (36, 38183),

Gene: ChisanaKitsune\_46 Start: 36224, Stop: 36991, Start Num: 1

Candidate Starts for ChisanaKitsune\_46:

(Start: 1 @36224 has 7 MA's), (3, 36233), (4, 36242), (5, 36281), (6, 36290), (7, 36308), (9, 36365),  
(10, 36392), (13, 36422), (14, 36431), (17, 36461), (19, 36557), (21, 36590), (22, 36605), (23, 36632),  
(24, 36638), (26, 36716), (27, 36743), (28, 36749), (32, 36854), (33, 36872), (34, 36875), (35, 36926),  
(36, 36974),

Gene: DalanDe\_45 Start: 40475, Stop: 41245, Start Num: 2

Candidate Starts for DalanDe\_45:

(Start: 2 @40475 has 3 MA's), (3, 40484), (5, 40532), (6, 40541), (7, 40559), (8, 40604), (10, 40643),  
(14, 40682), (16, 40697), (18, 40757), (21, 40841), (24, 40889), (29, 41048), (30, 41063), (31, 41090),  
(32, 41108), (33, 41126), (36, 41228),

Gene: EmoNemo\_48 Start: 37433, Stop: 38200, Start Num: 1

Candidate Starts for EmoNemo\_48:

(Start: 1 @37433 has 7 MA's), (3, 37442), (4, 37451), (5, 37490), (6, 37499), (7, 37517), (9, 37574), (10, 37601), (14, 37640), (17, 37670), (19, 37766), (21, 37799), (22, 37814), (23, 37841), (24, 37847), (26, 37925), (27, 37952), (28, 37958), (32, 38063), (33, 38081), (34, 38084), (36, 38183),

Gene: FlyingTortilla\_50 Start: 41004, Stop: 41774, Start Num: 2

Candidate Starts for FlyingTortilla\_50:

(Start: 2 @41004 has 3 MA's), (4, 41022), (5, 41061), (6, 41070), (14, 41211), (15, 41223), (17, 41241), (19, 41337), (20, 41355), (23, 41412), (26, 41496), (27, 41523), (28, 41529), (32, 41637), (34, 41658), (36, 41757),

Gene: GMA6\_34 Start: 28264, Stop: 29061, Start Num: 2

Candidate Starts for GMA6\_34:

(Start: 2 @28264 has 3 MA's), (5, 28321), (6, 28330), (7, 28348), (11, 28444), (12, 28447), (14, 28471), (19, 28597), (21, 28630), (25, 28708), (26, 28756), (34, 28945),

Gene: Gray\_50 Start: 37434, Stop: 38201, Start Num: 1

Candidate Starts for Gray\_50:

(Start: 1 @37434 has 7 MA's), (3, 37443), (4, 37452), (5, 37491), (6, 37500), (7, 37518), (9, 37575), (10, 37602), (14, 37641), (17, 37671), (19, 37767), (21, 37800), (22, 37815), (23, 37842), (24, 37848), (26, 37926), (27, 37953), (28, 37959), (32, 38064), (33, 38082), (34, 38085), (36, 38184),

Gene: Hanem\_50 Start: 37433, Stop: 38200, Start Num: 1

Candidate Starts for Hanem\_50:

(Start: 1 @37433 has 7 MA's), (3, 37442), (4, 37451), (5, 37490), (6, 37499), (7, 37517), (9, 37574), (10, 37601), (14, 37640), (17, 37670), (19, 37766), (21, 37799), (22, 37814), (23, 37841), (24, 37847), (26, 37925), (27, 37952), (28, 37958), (32, 38063), (33, 38081), (34, 38084), (36, 38183),

Gene: Kabocha\_51 Start: 38246, Stop: 39013, Start Num: 1

Candidate Starts for Kabocha\_51:

(Start: 1 @38246 has 7 MA's), (3, 38255), (4, 38264), (5, 38303), (6, 38312), (7, 38330), (9, 38387), (10, 38414), (14, 38453), (17, 38483), (19, 38579), (21, 38612), (22, 38627), (23, 38654), (24, 38660), (26, 38738), (27, 38765), (28, 38771), (32, 38876), (33, 38894), (34, 38897), (36, 38996),

Gene: Lenoshki\_50 Start: 39113, Stop: 39880, Start Num: 1

Candidate Starts for Lenoshki\_50:

(Start: 1 @39113 has 7 MA's), (3, 39122), (4, 39131), (5, 39170), (6, 39179), (7, 39197), (9, 39254), (10, 39281), (14, 39320), (17, 39350), (19, 39446), (21, 39479), (22, 39494), (23, 39521), (24, 39527), (26, 39605), (27, 39632), (28, 39638), (32, 39743), (33, 39761), (34, 39764), (36, 39863),

Gene: MintFritos\_48 Start: 37434, Stop: 38201, Start Num: 1

Candidate Starts for MintFritos\_48:

(Start: 1 @37434 has 7 MA's), (3, 37443), (4, 37452), (5, 37491), (6, 37500), (7, 37518), (9, 37575), (10, 37602), (14, 37641), (17, 37671), (19, 37767), (21, 37800), (22, 37815), (23, 37842), (24, 37848), (26, 37926), (27, 37953), (28, 37959), (32, 38064), (33, 38082), (34, 38085), (36, 38184),

Gene: Oogie\_50 Start: 39139, Stop: 39906, Start Num: 1

Candidate Starts for Oogie\_50:

(Start: 1 @39139 has 7 MA's), (3, 39148), (4, 39157), (5, 39196), (6, 39205), (7, 39223), (9, 39280), (14, 39346), (17, 39376), (21, 39505), (22, 39520), (23, 39547), (24, 39553), (26, 39631), (27, 39658), (28, 39664), (32, 39769), (33, 39787), (35, 39841), (36, 39889),

Gene: Pakusa\_48 Start: 37175, Stop: 37942, Start Num: 1

Candidate Starts for Pakusa\_48:

(Start: 1 @37175 has 7 MA's), (3, 37184), (4, 37193), (5, 37232), (6, 37241), (7, 37259), (9, 37316), (10, 37343), (14, 37382), (17, 37412), (19, 37508), (21, 37541), (22, 37556), (23, 37583), (24, 37589), (26, 37667), (27, 37694), (28, 37700), (32, 37805), (33, 37823), (34, 37826), (36, 37925),

Gene: ScarletRaider\_49 Start: 40312, Stop: 41082, Start Num: 1

Candidate Starts for ScarletRaider\_49:

(Start: 1 @40312 has 7 MA's), (3, 40321), (4, 40330), (5, 40369), (6, 40378), (14, 40519), (15, 40531), (17, 40549), (19, 40645), (20, 40663), (23, 40720), (26, 40804), (27, 40831), (28, 40837), (32, 40945), (34, 40966), (36, 41065),

Gene: Schomber\_49 Start: 37183, Stop: 37950, Start Num: 1

Candidate Starts for Schomber\_49:

(Start: 1 @37183 has 7 MA's), (3, 37192), (4, 37201), (5, 37240), (6, 37249), (7, 37267), (9, 37324), (10, 37351), (14, 37390), (17, 37420), (19, 37516), (21, 37549), (22, 37564), (23, 37591), (24, 37597), (26, 37675), (27, 37702), (28, 37708), (32, 37813), (33, 37831), (34, 37834), (36, 37933),

Gene: Toneprano\_48 Start: 37433, Stop: 38200, Start Num: 1

Candidate Starts for Toneprano\_48:

(Start: 1 @37433 has 7 MA's), (3, 37442), (4, 37451), (5, 37490), (6, 37499), (7, 37517), (9, 37574), (10, 37601), (14, 37640), (17, 37670), (19, 37766), (21, 37799), (22, 37814), (23, 37841), (24, 37847), (26, 37925), (27, 37952), (28, 37958), (32, 38063), (33, 38081), (34, 38084), (36, 38183),

Gene: Twin\_48 Start: 37433, Stop: 38200, Start Num: 1

Candidate Starts for Twin\_48:

(Start: 1 @37433 has 7 MA's), (3, 37442), (4, 37451), (5, 37490), (6, 37499), (7, 37517), (9, 37574), (10, 37601), (14, 37640), (17, 37670), (19, 37766), (21, 37799), (22, 37814), (23, 37841), (24, 37847), (26, 37925), (27, 37952), (28, 37958), (32, 38063), (33, 38081), (34, 38084), (36, 38183),

Gene: UBSmoodge\_52 Start: 40770, Stop: 41540, Start Num: 2

Candidate Starts for UBSmoodge\_52:

(Start: 2 @40770 has 3 MA's), (4, 40788), (5, 40827), (6, 40836), (14, 40977), (15, 40989), (17, 41007), (19, 41103), (20, 41121), (23, 41178), (26, 41262), (27, 41289), (28, 41295), (32, 41403), (34, 41424), (36, 41523),