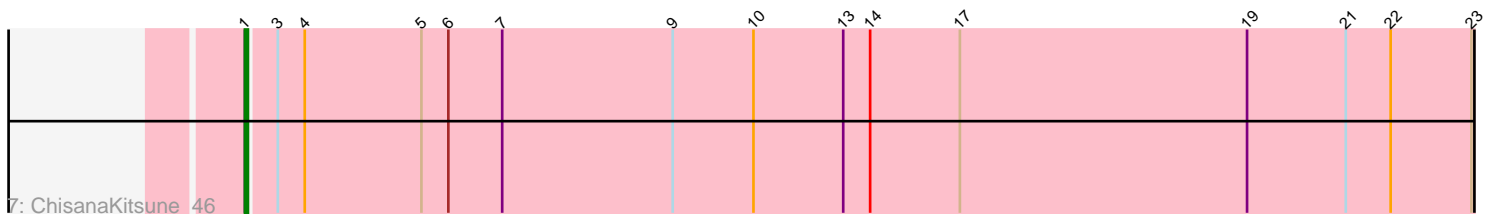
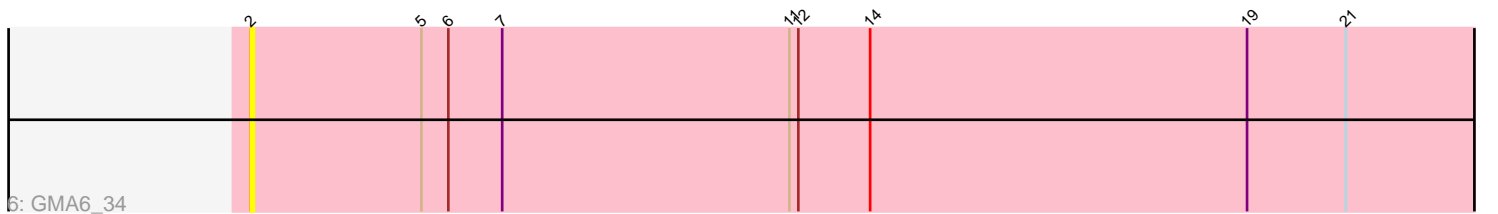
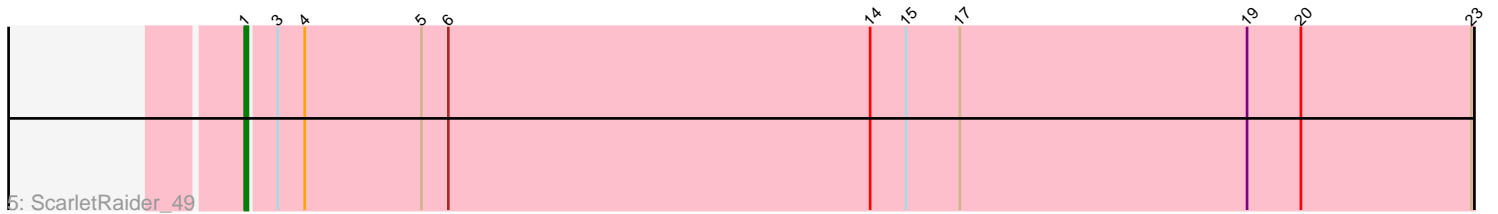
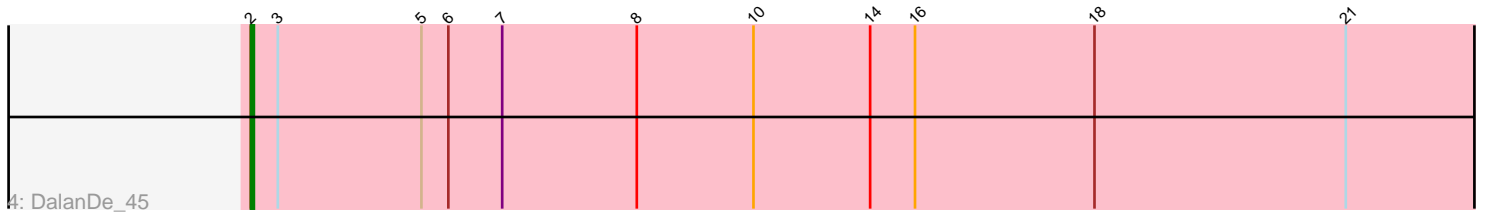
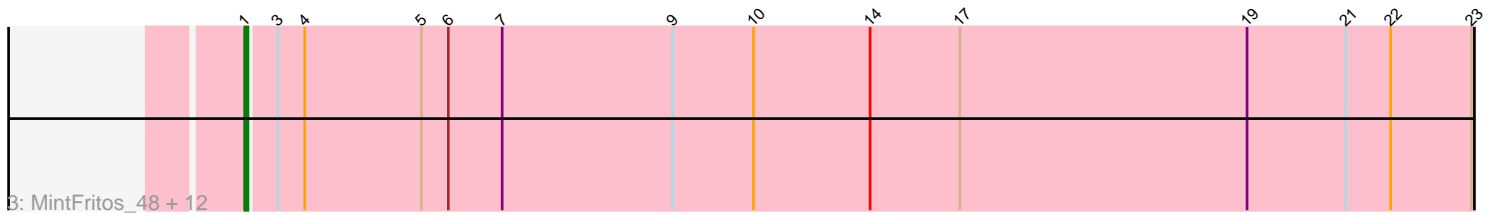
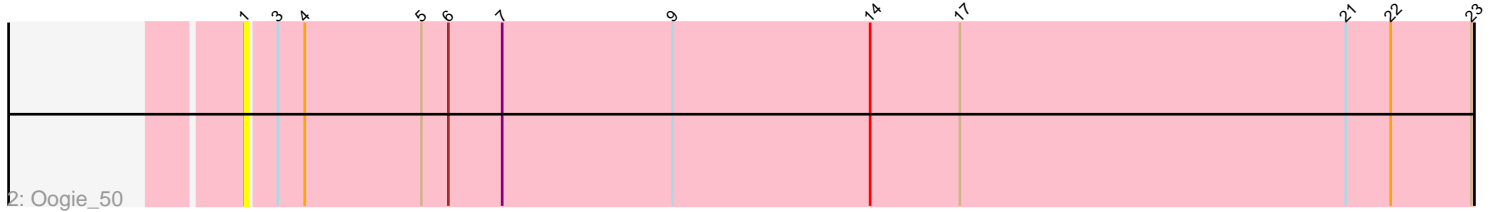
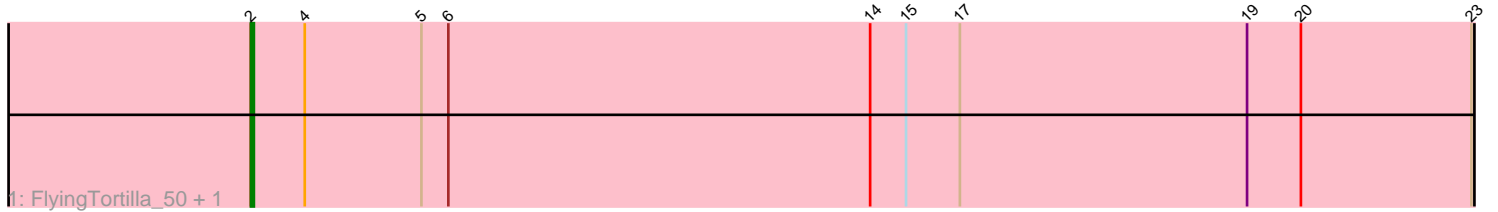


Zoomed Pham 214654



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 214654 Report

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

Pham number 214654 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: Aloki_48 Start: 37433, Stop: 38200, Start Num: 1

Candidate Starts for Aloki_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),