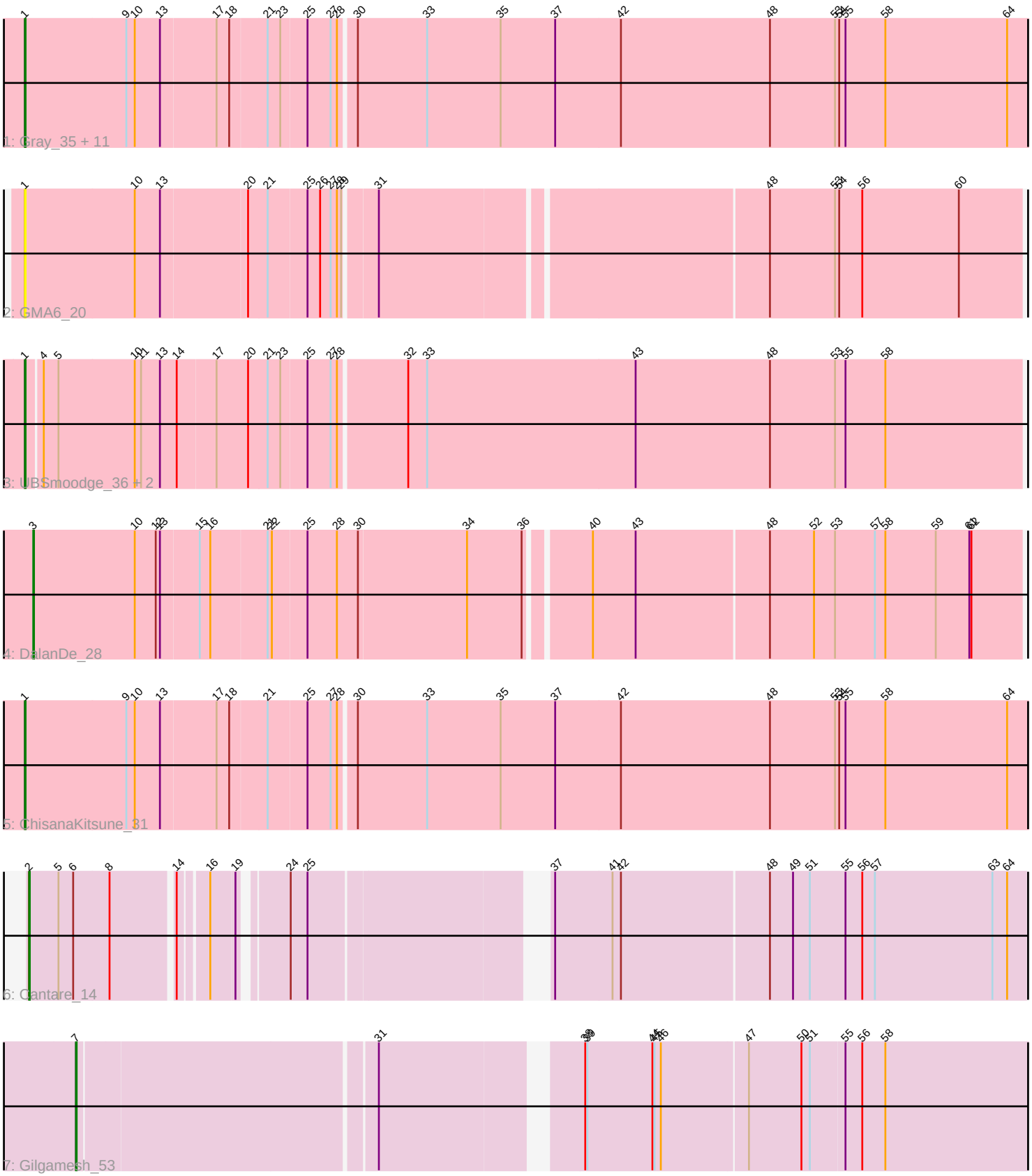
Pham 194352


1: Gray_35 + 11
2: GMA6_20
3: UBSmoodge_36 + 2
4: DalanDe_28
5: ChisanaKitsune_31
6: Cantare_14
7: Gilgamesh_53

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 194352 Report

This analysis was run 11/02/24 on database version 579.

Pham number 194352 has 20 members, 8 are drafts.

Phages represented in each track:
• Track 1 : Gray_35, Aloki_34, Kabocha_36, Beted_35, Pakusa_34, Schomber_34, MintFritos_34, Twin_34, Chidiebere_35, Lenoshki_35, Oogie_35, Hanem_35
• Track 2 : GMA6_20
• Track 3 : UBSmoodge_36, FlyingTortilla_34, ScarletRaider_34
• Track 4 : DalanDe_28
• Track 5 : ChisanaKitsune_31
• Track 6 : Cantare_14
• Track 7 : Gilgamesh_53

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 9 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aloki_34, Beted_35, Chidiebere_35, ChisanaKitsune_31, FlyingTortilla_34, GMA6_20, Gray_35, Hanem_35, Kabocha_36, Lenoshki_35, MintFritos_34, Oogie_35, Pakusa_34, ScarletRaider_34, Schomber_34, Twin_34, UBSmoodge_36,

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

Genes that do not have the "Most Annotated" start:
• Cantare_14, DalanDe_28, Gilgamesh_53,

Summary by start number:

Start 1:
• Found in 17 of 20 (85.0%) of genes in pham
• Manual Annotations of this start: 9 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aloki_34 (DQ), Beted_35 (DQ), Chidiebere_35 (DQ), ChisanaKitsune_31 (DQ), FlyingTortilla_34 (DQ), GMA6_20 (DQ), Gray_35 (DQ), Hanem_35 (DQ), Kabocha_36 (DQ), Lenoshki_35 (DQ),

MintFritos_34 (DQ), Oogie_35 (DQ), Pakusa_34 (DQ), ScarletRaider_34 (DQ), Schomber_34 (DQ), Twin_34 (DQ), UBSmoodge_36 (DQ),

Start 2:
• Found in 1 of 20 (5.0%) of genes in pham
• Manual Annotations of this start: 1 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cantare_14 (singleton),

Start 3:
• Found in 1 of 20 (5.0%) of genes in pham
• Manual Annotations of this start: 1 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DalanDe_28 (DQ),

Start 7:
• Found in 1 of 20 (5.0%) of genes in pham
• Manual Annotations of this start: 1 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Gilgamesh_53 (singleton),

Summary by clusters:

There are 2 clusters represented in this pham: singleton, DQ,

Info for manual annotations of cluster DQ:
•Start number 1 was manually annotated 9 times for cluster DQ.
•Start number 3 was manually annotated 1 time for cluster DQ.

Gene Information:

Gene: Aloki_34 Start: 25287, Stop: 26714, Start Num: 1
Candidate Starts for Aloki_34:
(Start: 1 @25287 has 9 MA's), (9, 25431), (10, 25443), (13, 25479), (17, 25557), (18, 25575), (21, 25626), (23, 25644), (25, 25680), (27, 25713), (28, 25722), (30, 25743), (33, 25842), (35, 25947), (37, 26025), (42, 26118), (48, 26331), (53, 26424), (54, 26430), (55, 26439), (58, 26496), (64, 26670),

Gene: Beted_35 Start: 26967, Stop: 28394, Start Num: 1
Candidate Starts for Beted_35:
(Start: 1 @26967 has 9 MA's), (9, 27111), (10, 27123), (13, 27159), (17, 27237), (18, 27255), (21, 27306), (23, 27324), (25, 27360), (27, 27393), (28, 27402), (30, 27423), (33, 27522), (35, 27627), (37, 27705), (42, 27798), (48, 28011), (53, 28104), (54, 28110), (55, 28119), (58, 28176), (64, 28350),

Gene: Cantare_14 Start: 13513, Stop: 14820, Start Num: 2
Candidate Starts for Cantare_14:
(Start: 2 @13513 has 1 MA's), (5, 13555), (6, 13576), (8, 13627), (14, 13711), (16, 13747), (19, 13780), (24, 13834), (25, 13858), (37, 14155), (41, 14236), (42, 14248), (48, 14455), (49, 14488), (51, 14512), (55, 14563), (56, 14587), (57, 14605), (63, 14773), (64, 14794),

Gene: Chidiebere_35 Start: 25287, Stop: 26714, Start Num: 1
Candidate Starts for Chidiebere_35:

(Start: 1 @25287 has 9 MA's), (9, 25431), (10, 25443), (13, 25479), (17, 25557), (18, 25575), (21, 25626), (23, 25644), (25, 25680), (27, 25713), (28, 25722), (30, 25743), (33, 25842), (35, 25947), (37, 26025), (42, 26118), (48, 26331), (53, 26424), (54, 26430), (55, 26439), (58, 26496), (64, 26670),

Gene: ChisanaKitsune_31 Start: 24080, Stop: 25507, Start Num: 1
Candidate Starts for ChisanaKitsune_31:
(Start: 1 @24080 has 9 MA's), (9, 24224), (10, 24236), (13, 24272), (17, 24350), (18, 24368), (21, 24419), (25, 24473), (27, 24506), (28, 24515), (30, 24536), (33, 24635), (35, 24740), (37, 24818), (42, 24911), (48, 25124), (53, 25217), (54, 25223), (55, 25232), (58, 25289), (64, 25463),

Gene: DalanDe_28 Start: 27476, Stop: 28846, Start Num: 3
Candidate Starts for DalanDe_28:
(Start: 3 @27476 has 1 MA's), (10, 27620), (12, 27650), (13, 27656), (15, 27710), (16, 27725), (21, 27803), (22, 27809), (25, 27857), (28, 27899), (30, 27929), (34, 28082), (36, 28160), (40, 28241), (43, 28301), (48, 28487), (52, 28550), (53, 28580), (57, 28637), (58, 28652), (59, 28724), (61, 28772), (62, 28775),

Gene: FlyingTortilla_34 Start: 28161, Stop: 29570, Start Num: 1
Candidate Starts for FlyingTortilla_34:
(Start: 1 @28161 has 9 MA's), (4, 28179), (5, 28200), (10, 28308), (11, 28317), (13, 28344), (14, 28368), (17, 28422), (20, 28467), (21, 28494), (23, 28512), (25, 28548), (27, 28581), (28, 28590), (32, 28683), (33, 28710), (43, 29007), (48, 29199), (53, 29292), (55, 29307), (58, 29364),

Gene: GMA6_20 Start: 17179, Stop: 18546, Start Num: 1
Candidate Starts for GMA6_20:
(Start: 1 @17179 has 9 MA's), (10, 17335), (13, 17371), (20, 17488), (21, 17515), (25, 17569), (26, 17587), (27, 17602), (28, 17611), (29, 17617), (31, 17659), (48, 18187), (53, 18280), (54, 18286), (56, 18319), (60, 18457),

Gene: Gilgamesh_53 Start: 49313, Stop: 50602, Start Num: 7
Candidate Starts for Gilgamesh_53:
(Start: 7 @49313 has 1 MA's), (31, 49721), (38, 49976), (39, 49979), (44, 50072), (45, 50075), (46, 50084), (47, 50204), (50, 50279), (51, 50291), (55, 50339), (56, 50363), (58, 50396),

Gene: Gray_35 Start: 25287, Stop: 26714, Start Num: 1
Candidate Starts for Gray_35:
(Start: 1 @25287 has 9 MA's), (9, 25431), (10, 25443), (13, 25479), (17, 25557), (18, 25575), (21, 25626), (23, 25644), (25, 25680), (27, 25713), (28, 25722), (30, 25743), (33, 25842), (35, 25947), (37, 26025), (42, 26118), (48, 26331), (53, 26424), (54, 26430), (55, 26439), (58, 26496), (64, 26670),

Gene: Hanem_35 Start: 25287, Stop: 26714, Start Num: 1
Candidate Starts for Hanem_35:
(Start: 1 @25287 has 9 MA's), (9, 25431), (10, 25443), (13, 25479), (17, 25557), (18, 25575), (21, 25626), (23, 25644), (25, 25680), (27, 25713), (28, 25722), (30, 25743), (33, 25842), (35, 25947), (37, 26025), (42, 26118), (48, 26331), (53, 26424), (54, 26430), (55, 26439), (58, 26496), (64, 26670),

Gene: Kabocha_36 Start: 26100, Stop: 27527, Start Num: 1
Candidate Starts for Kabocha_36:
(Start: 1 @26100 has 9 MA's), (9, 26244), (10, 26256), (13, 26292), (17, 26370), (18, 26388), (21, 26439), (23, 26457), (25, 26493), (27, 26526), (28, 26535), (30, 26556), (33, 26655), (35, 26760), (37, 26838), (42, 26931), (48, 27144), (53, 27237), (54, 27243), (55, 27252), (58, 27309), (64, 27483),

Gene: Lenoshki_35 Start: 26967, Stop: 28394, Start Num: 1

Candidate Starts for Lenoshki_35:
(Start: 1 @26967 has 9 MA's), (9, 27111), (10, 27123), (13, 27159), (17, 27237), (18, 27255), (21, 27306), (23, 27324), (25, 27360), (27, 27393), (28, 27402), (30, 27423), (33, 27522), (35, 27627), (37, 27705), (42, 27798), (48, 28011), (53, 28104), (54, 28110), (55, 28119), (58, 28176), (64, 28350),

Gene: MintFritos_34 Start: 25287, Stop: 26714, Start Num: 1
Candidate Starts for MintFritos_34:
(Start: 1 @25287 has 9 MA's), (9, 25431), (10, 25443), (13, 25479), (17, 25557), (18, 25575), (21, 25626), (23, 25644), (25, 25680), (27, 25713), (28, 25722), (30, 25743), (33, 25842), (35, 25947), (37, 26025), (42, 26118), (48, 26331), (53, 26424), (54, 26430), (55, 26439), (58, 26496), (64, 26670),

Gene: Oogie_35 Start: 26993, Stop: 28420, Start Num: 1
Candidate Starts for Oogie_35:
(Start: 1 @26993 has 9 MA's), (9, 27137), (10, 27149), (13, 27185), (17, 27263), (18, 27281), (21, 27332), (23, 27350), (25, 27386), (27, 27419), (28, 27428), (30, 27449), (33, 27548), (35, 27653), (37, 27731), (42, 27824), (48, 28037), (53, 28130), (54, 28136), (55, 28145), (58, 28202), (64, 28376),

Gene: Pakusa_34 Start: 25029, Stop: 26456, Start Num: 1
Candidate Starts for Pakusa_34:
(Start: 1 @25029 has 9 MA's), (9, 25173), (10, 25185), (13, 25221), (17, 25299), (18, 25317), (21, 25368), (23, 25386), (25, 25422), (27, 25455), (28, 25464), (30, 25485), (33, 25584), (35, 25689), (37, 25767), (42, 25860), (48, 26073), (53, 26166), (54, 26172), (55, 26181), (58, 26238), (64, 26412),

Gene: ScarletRaider_34 Start: 28188, Stop: 29597, Start Num: 1
Candidate Starts for ScarletRaider_34:
(Start: 1 @28188 has 9 MA's), (4, 28206), (5, 28227), (10, 28335), (11, 28344), (13, 28371), (14, 28395), (17, 28449), (20, 28494), (21, 28521), (23, 28539), (25, 28575), (27, 28608), (28, 28617), (32, 28710), (33, 28737), (43, 29034), (48, 29226), (53, 29319), (55, 29334), (58, 29391),

Gene: Schomber_34 Start: 25037, Stop: 26464, Start Num: 1
Candidate Starts for Schomber_34:
(Start: 1 @25037 has 9 MA's), (9, 25181), (10, 25193), (13, 25229), (17, 25307), (18, 25325), (21, 25376), (23, 25394), (25, 25430), (27, 25463), (28, 25472), (30, 25493), (33, 25592), (35, 25697), (37, 25775), (42, 25868), (48, 26081), (53, 26174), (54, 26180), (55, 26189), (58, 26246), (64, 26420),

Gene: Twin_34 Start: 25287, Stop: 26714, Start Num: 1
Candidate Starts for Twin_34:
(Start: 1 @25287 has 9 MA's), (9, 25431), (10, 25443), (13, 25479), (17, 25557), (18, 25575), (21, 25626), (23, 25644), (25, 25680), (27, 25713), (28, 25722), (30, 25743), (33, 25842), (35, 25947), (37, 26025), (42, 26118), (48, 26331), (53, 26424), (54, 26430), (55, 26439), (58, 26496), (64, 26670),

Gene: UBSmoodge_36 Start: 27923, Stop: 29332, Start Num: 1
Candidate Starts for UBSmoodge_36:
(Start: 1 @27923 has 9 MA's), (4, 27941), (5, 27962), (10, 28070), (11, 28079), (13, 28106), (14, 28130), (17, 28184), (20, 28229), (21, 28256), (23, 28274), (25, 28310), (27, 28343), (28, 28352), (32, 28445), (33, 28472), (43, 28769), (48, 28961), (53, 29054), (55, 29069), (58, 29126),