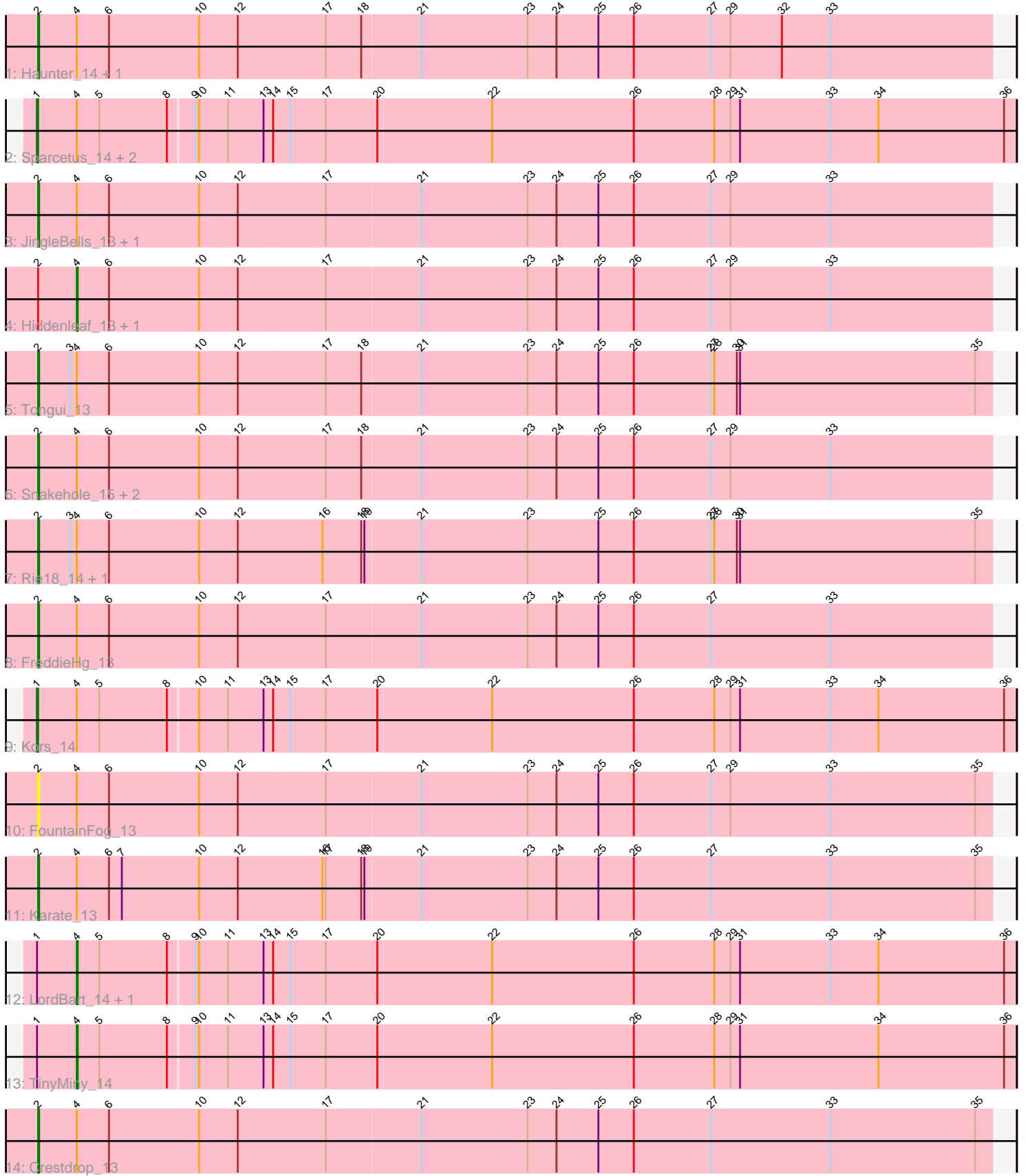


Pham 309205



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 309205 Report

This analysis was run 06/27/26 on database version 652.

Pham number 309205 has 23 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Haunter_14, Tedro_14
- Track 2 : Sparcetus_14, Ajin_14, RikSengupta_14
- Track 3 : JingleBells_13, Annapurna_13
- Track 4 : Hiddenleaf_13, Chivey_13
- Track 5 : Tongui_13
- Track 6 : Snakehole_15, SilentWarrior_13, DannyDe_13
- Track 7 : Rie18_14, Hager_14
- Track 8 : FreddieHg_13
- Track 9 : Kors_14
- Track 10 : FountainFog_13
- Track 11 : Karate_13
- Track 12 : LordBart_14, Bramble_14
- Track 13 : TinyMiny_14
- Track 14 : Crestdrop_13

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

The start number called the most often in the published annotations is 2, it was called in 12 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Annapurna_13, Crestdrop_13, DannyDe_13, FountainFog_13, FreddieHg_13, Hager_14, Haunter_14, JingleBells_13, Karate_13, Rie18_14, SilentWarrior_13, Snakehole_15, Tedro_14, Tongui_13,

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

- Chivey_13, Hiddenleaf_13,

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

- Ajin_14, Bramble_14, Kors_14, LordBart_14, RikSengupta_14, Sparcetus_14, TinyMiny_14,

Summary by start number:

Start 1:

- Found in 7 of 23 (30.4%) of genes in pham
- Manual Annotations of this start: 4 of 21
- Called 57.1% of time when present
- Phage (with cluster) where this start called: Ajin_14 (EF), Kors_14 (EF), RikSengupta_14 (EF), Sparcetus_14 (EF),

Start 2:

- Found in 16 of 23 (69.6%) of genes in pham
- Manual Annotations of this start: 12 of 21
- Called 87.5% of time when present
- Phage (with cluster) where this start called: Annapurna_13 (EF), Crestdrop_13 (EF), DannyDe_13 (EF), FountainFog_13 (EF), FreddieHg_13 (EF), Hager_14 (EF), Haunter_14 (EF), JingleBells_13 (EF), Karate_13 (EF), Rie18_14 (EF), SilentWarrior_13 (EF), Snakehole_15 (EF), Tedro_14 (EF), Tongui_13 (EF),

Start 4:

- Found in 23 of 23 (100.0%) of genes in pham
- Manual Annotations of this start: 5 of 21
- Called 21.7% of time when present
- Phage (with cluster) where this start called: Bramble_14 (EF), Chivey_13 (EF), Hiddenleaf_13 (EF), LordBart_14 (EF), TinyMiny_14 (EF),

Summary by clusters:

There is one cluster represented in this pham: EF

Info for manual annotations of cluster EF:

- Start number 1 was manually annotated 4 times for cluster EF.
- Start number 2 was manually annotated 12 times for cluster EF.
- Start number 4 was manually annotated 5 times for cluster EF.

Gene Information:

Gene: Ajin_14 Start: 6294, Stop: 7199, Start Num: 1

Candidate Starts for Ajin_14:

(Start: 1 @6294 has 4 MA's), (Start: 4 @6330 has 5 MA's), (5, 6351), (8, 6414), (9, 6438), (10, 6441), (11, 6468), (13, 6501), (14, 6510), (15, 6525), (17, 6558), (20, 6606), (22, 6711), (26, 6843), (28, 6918), (29, 6933), (31, 6942), (33, 7026), (34, 7071), (36, 7188),

Gene: Annapurna_13 Start: 6189, Stop: 7073, Start Num: 2

Candidate Starts for Annapurna_13:

(Start: 2 @6189 has 12 MA's), (Start: 4 @6225 has 5 MA's), (6, 6255), (10, 6339), (12, 6375), (17, 6456), (21, 6543), (23, 6642), (24, 6669), (25, 6708), (26, 6741), (27, 6813), (29, 6831), (33, 6924),

Gene: Bramble_14 Start: 6297, Stop: 7166, Start Num: 4

Candidate Starts for Bramble_14:

(Start: 1 @6261 has 4 MA's), (Start: 4 @6297 has 5 MA's), (5, 6318), (8, 6381), (9, 6405), (10, 6408), (11, 6435), (13, 6468), (14, 6477), (15, 6492), (17, 6525), (20, 6573), (22, 6678), (26, 6810), (28, 6885), (29, 6900), (31, 6909), (33, 6993), (34, 7038), (36, 7155),

Gene: Chivey_13 Start: 6218, Stop: 7066, Start Num: 4

Candidate Starts for Chivey_13:

(Start: 2 @6182 has 12 MA's), (Start: 4 @6218 has 5 MA's), (6, 6248), (10, 6332), (12, 6368), (17, 6449), (21, 6536), (23, 6635), (24, 6662), (25, 6701), (26, 6734), (27, 6806), (29, 6824), (33, 6917),

Gene: Crestdrop_13 Start: 6055, Stop: 6939, Start Num: 2

Candidate Starts for Crestdrop_13:

(Start: 2 @6055 has 12 MA's), (Start: 4 @6091 has 5 MA's), (6, 6121), (10, 6205), (12, 6241), (17, 6322), (21, 6409), (23, 6508), (24, 6535), (25, 6574), (26, 6607), (27, 6679), (33, 6790), (35, 6925),

Gene: DannyDe_13 Start: 6173, Stop: 7057, Start Num: 2

Candidate Starts for DannyDe_13:

(Start: 2 @6173 has 12 MA's), (Start: 4 @6209 has 5 MA's), (6, 6239), (10, 6323), (12, 6359), (17, 6440), (18, 6473), (21, 6527), (23, 6626), (24, 6653), (25, 6692), (26, 6725), (27, 6797), (29, 6815), (33, 6908),

Gene: FountainFog_13 Start: 6181, Stop: 7065, Start Num: 2

Candidate Starts for FountainFog_13:

(Start: 2 @6181 has 12 MA's), (Start: 4 @6217 has 5 MA's), (6, 6247), (10, 6331), (12, 6367), (17, 6448), (21, 6535), (23, 6634), (24, 6661), (25, 6700), (26, 6733), (27, 6805), (29, 6823), (33, 6916), (35, 7051),

Gene: FreddieHg_13 Start: 6195, Stop: 7079, Start Num: 2

Candidate Starts for FreddieHg_13:

(Start: 2 @6195 has 12 MA's), (Start: 4 @6231 has 5 MA's), (6, 6261), (10, 6345), (12, 6381), (17, 6462), (21, 6549), (23, 6648), (24, 6675), (25, 6714), (26, 6747), (27, 6819), (33, 6930),

Gene: Hager_14 Start: 6443, Stop: 7327, Start Num: 2

Candidate Starts for Hager_14:

(Start: 2 @6443 has 12 MA's), (3, 6473), (Start: 4 @6479 has 5 MA's), (6, 6509), (10, 6593), (12, 6629), (16, 6707), (18, 6743), (19, 6746), (21, 6797), (23, 6896), (25, 6962), (26, 6995), (27, 7067), (28, 7070), (30, 7091), (31, 7094), (35, 7313),

Gene: Haunter_14 Start: 6398, Stop: 7282, Start Num: 2

Candidate Starts for Haunter_14:

(Start: 2 @6398 has 12 MA's), (Start: 4 @6434 has 5 MA's), (6, 6464), (10, 6548), (12, 6584), (17, 6665), (18, 6698), (21, 6752), (23, 6851), (24, 6878), (25, 6917), (26, 6950), (27, 7022), (29, 7040), (32, 7088), (33, 7133),

Gene: Hiddenleaf_13 Start: 6218, Stop: 7066, Start Num: 4

Candidate Starts for Hiddenleaf_13:

(Start: 2 @6182 has 12 MA's), (Start: 4 @6218 has 5 MA's), (6, 6248), (10, 6332), (12, 6368), (17, 6449), (21, 6536), (23, 6635), (24, 6662), (25, 6701), (26, 6734), (27, 6806), (29, 6824), (33, 6917),

Gene: JingleBells_13 Start: 6251, Stop: 7135, Start Num: 2

Candidate Starts for JingleBells_13:

(Start: 2 @6251 has 12 MA's), (Start: 4 @6287 has 5 MA's), (6, 6317), (10, 6401), (12, 6437), (17, 6518), (21, 6605), (23, 6704), (24, 6731), (25, 6770), (26, 6803), (27, 6875), (29, 6893), (33, 6986),

Gene: Karate_13 Start: 6403, Stop: 7287, Start Num: 2

Candidate Starts for Karate_13:

(Start: 2 @6403 has 12 MA's), (Start: 4 @6439 has 5 MA's), (6, 6469), (7, 6481), (10, 6553), (12, 6589), (16, 6667), (17, 6670), (18, 6703), (19, 6706), (21, 6757), (23, 6856), (24, 6883), (25, 6922), (26,

6955), (27, 7027), (33, 7138), (35, 7273),

Gene: Kors_14 Start: 6327, Stop: 7232, Start Num: 1

Candidate Starts for Kors_14:

(Start: 1 @6327 has 4 MA's), (Start: 4 @6363 has 5 MA's), (5, 6384), (8, 6447), (10, 6474), (11, 6501), (13, 6534), (14, 6543), (15, 6558), (17, 6591), (20, 6639), (22, 6744), (26, 6876), (28, 6951), (29, 6966), (31, 6975), (33, 7059), (34, 7104), (36, 7221),

Gene: LordBart_14 Start: 6336, Stop: 7205, Start Num: 4

Candidate Starts for LordBart_14:

(Start: 1 @6300 has 4 MA's), (Start: 4 @6336 has 5 MA's), (5, 6357), (8, 6420), (9, 6444), (10, 6447), (11, 6474), (13, 6507), (14, 6516), (15, 6531), (17, 6564), (20, 6612), (22, 6717), (26, 6849), (28, 6924), (29, 6939), (31, 6948), (33, 7032), (34, 7077), (36, 7194),

Gene: Rie18_14 Start: 6338, Stop: 7222, Start Num: 2

Candidate Starts for Rie18_14:

(Start: 2 @6338 has 12 MA's), (3, 6368), (Start: 4 @6374 has 5 MA's), (6, 6404), (10, 6488), (12, 6524), (16, 6602), (18, 6638), (19, 6641), (21, 6692), (23, 6791), (25, 6857), (26, 6890), (27, 6962), (28, 6965), (30, 6986), (31, 6989), (35, 7208),

Gene: RikSengupta_14 Start: 6397, Stop: 7302, Start Num: 1

Candidate Starts for RikSengupta_14:

(Start: 1 @6397 has 4 MA's), (Start: 4 @6433 has 5 MA's), (5, 6454), (8, 6517), (9, 6541), (10, 6544), (11, 6571), (13, 6604), (14, 6613), (15, 6628), (17, 6661), (20, 6709), (22, 6814), (26, 6946), (28, 7021), (29, 7036), (31, 7045), (33, 7129), (34, 7174), (36, 7291),

Gene: SilentWarrior_13 Start: 6189, Stop: 7073, Start Num: 2

Candidate Starts for SilentWarrior_13:

(Start: 2 @6189 has 12 MA's), (Start: 4 @6225 has 5 MA's), (6, 6255), (10, 6339), (12, 6375), (17, 6456), (18, 6489), (21, 6543), (23, 6642), (24, 6669), (25, 6708), (26, 6741), (27, 6813), (29, 6831), (33, 6924),

Gene: Snakehole_15 Start: 6277, Stop: 7161, Start Num: 2

Candidate Starts for Snakehole_15:

(Start: 2 @6277 has 12 MA's), (Start: 4 @6313 has 5 MA's), (6, 6343), (10, 6427), (12, 6463), (17, 6544), (18, 6577), (21, 6631), (23, 6730), (24, 6757), (25, 6796), (26, 6829), (27, 6901), (29, 6919), (33, 7012),

Gene: Sparcetus_14 Start: 6276, Stop: 7181, Start Num: 1

Candidate Starts for Sparcetus_14:

(Start: 1 @6276 has 4 MA's), (Start: 4 @6312 has 5 MA's), (5, 6333), (8, 6396), (9, 6420), (10, 6423), (11, 6450), (13, 6483), (14, 6492), (15, 6507), (17, 6540), (20, 6588), (22, 6693), (26, 6825), (28, 6900), (29, 6915), (31, 6924), (33, 7008), (34, 7053), (36, 7170),

Gene: Tedro_14 Start: 6454, Stop: 7338, Start Num: 2

Candidate Starts for Tedro_14:

(Start: 2 @6454 has 12 MA's), (Start: 4 @6490 has 5 MA's), (6, 6520), (10, 6604), (12, 6640), (17, 6721), (18, 6754), (21, 6808), (23, 6907), (24, 6934), (25, 6973), (26, 7006), (27, 7078), (29, 7096), (32, 7144), (33, 7189),

Gene: TinyMiny_14 Start: 6310, Stop: 7179, Start Num: 4

Candidate Starts for TinyMiny_14:

(Start: 1 @6274 has 4 MA's), (Start: 4 @6310 has 5 MA's), (5, 6331), (8, 6394), (9, 6418), (10, 6421), (11, 6448), (13, 6481), (14, 6490), (15, 6505), (17, 6538), (20, 6586), (22, 6691), (26, 6823), (28, 6898), (29, 6913), (31, 6922), (34, 7051), (36, 7168),

Gene: Tongui_13 Start: 6286, Stop: 7170, Start Num: 2

Candidate Starts for Tongui_13:

(Start: 2 @6286 has 12 MA's), (3, 6316), (Start: 4 @6322 has 5 MA's), (6, 6352), (10, 6436), (12, 6472), (17, 6553), (18, 6586), (21, 6640), (23, 6739), (24, 6766), (25, 6805), (26, 6838), (27, 6910), (28, 6913), (30, 6934), (31, 6937), (35, 7156),