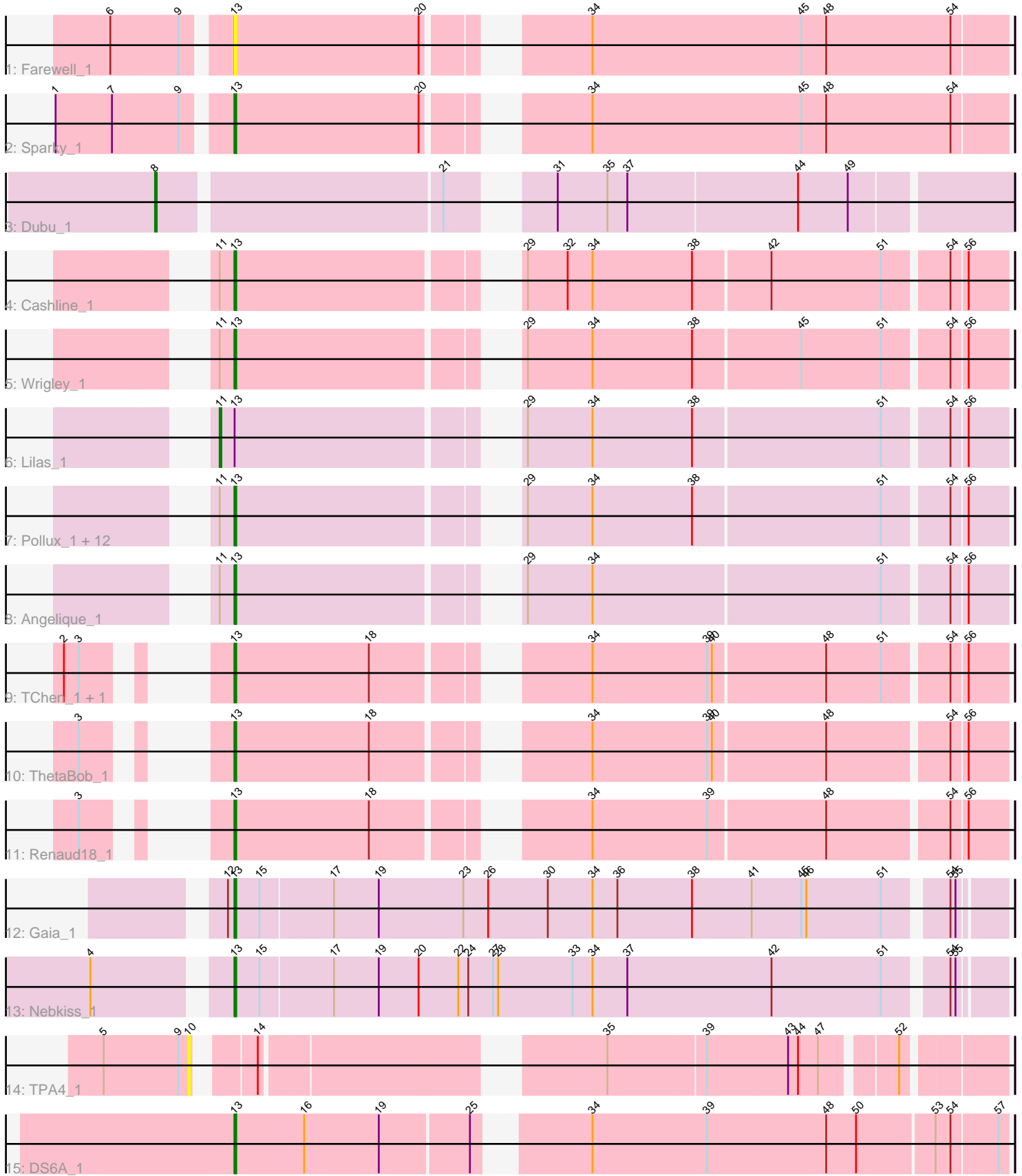


Pham 158108



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 158108 Report

This analysis was run 04/13/24 on database version 558.

Pham number 158108 has 28 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Farewell_1
- Track 2 : Sparky_1
- Track 3 : Dubu_1
- Track 4 : Cashline_1
- Track 5 : Wrigley_1
- Track 6 : Lilas_1
- Track 7 : Pollux_1, EMSquaredA_1, Marteena_1, LonelyBoi_1, Posh_1, EnalisNailo_1, Floral_1, Jablanski_1, Pytheas_1, BeeGee_1, Confidence_1, BritBrat_1, Bradissa_1
- Track 8 : Angelique_1
- Track 9 : TChen_1, LunaStella_1
- Track 10 : ThetaBob_1
- Track 11 : Renaud18_1
- Track 12 : Gaia_1
- Track 13 : Nebkiss_1
- Track 14 : TPA4_1
- Track 15 : DS6A_1

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

The start number called the most often in the published annotations is 13, it was called in 23 of the 25 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Angelique_1, BeeGee_1, Bradissa_1, BritBrat_1, Cashline_1, Confidence_1, DS6A_1, EMSquaredA_1, EnalisNailo_1, Farewell_1, Floral_1, Gaia_1, Jablanski_1, LonelyBoi_1, LunaStella_1, Marteena_1, Nebkiss_1, Pollux_1, Posh_1, Pytheas_1, Renaud18_1, Sparky_1, TChen_1, ThetaBob_1, Wrigley_1,

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

- Lilas_1,

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

- Dubu_1, TPA4_1,

Summary by start number:

Start 8:

- Found in 1 of 28 (3.6%) of genes in pham
- Manual Annotations of this start: 1 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dubu_1 (BJ),

Start 10:

- Found in 1 of 28 (3.6%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: TPA4_1 (singleton),

Start 11:

- Found in 17 of 28 (60.7%) of genes in pham
- Manual Annotations of this start: 1 of 25
- Called 5.9% of time when present
- Phage (with cluster) where this start called: Lilas_1 (CY1),

Start 13:

- Found in 26 of 28 (92.9%) of genes in pham
- Manual Annotations of this start: 23 of 25
- Called 96.2% of time when present
- Phage (with cluster) where this start called: Angelique_1 (CY1), BeeGee_1 (CY), Bradissa_1 (CY1), BritBrat_1 (CY2), Cashline_1 (CY), Confidence_1 (CY1), DS6A_1 (singleton), EMsquaredA_1 (CY1), EnalisNailo_1 (CY1), Farewell_1 (AF), Floral_1 (CY1), Gaia_1 (X), Jablanski_1 (CY), LonelyBoi_1 (CY), LunaStella_1 (F4), Marteena_1 (CY1), Nebkiss_1 (X), Pollux_1 (CY1), Posh_1 (CY), Pytheas_1 (CY), Renaud18_1 (F4), Sparky_1 (AF), TChen_1 (F4), ThetaBob_1 (F4), Wrigley_1 (CY),

Summary by clusters:

There are 8 clusters represented in this pham: CY2, CY1, F4, AF, singleton, BJ, CY, X,

Info for manual annotations of cluster AF:

- Start number 13 was manually annotated 1 time for cluster AF.

Info for manual annotations of cluster BJ:

- Start number 8 was manually annotated 1 time for cluster BJ.

Info for manual annotations of cluster CY:

- Start number 13 was manually annotated 7 times for cluster CY.

Info for manual annotations of cluster CY1:

- Start number 11 was manually annotated 1 time for cluster CY1.
- Start number 13 was manually annotated 8 times for cluster CY1.

Info for manual annotations of cluster CY2:

- Start number 13 was manually annotated 1 time for cluster CY2.

Info for manual annotations of cluster F4:

- Start number 13 was manually annotated 3 times for cluster F4.

Info for manual annotations of cluster X:

- Start number 13 was manually annotated 2 times for cluster X.

Gene Information:

Gene: Angelique_1 Start: 82, Stop: 504, Start Num: 13

Candidate Starts for Angelique_1:

(Start: 11 @73 has 1 MA's), (Start: 13 @82 has 23 MA's), (29, 226), (34, 265), (51, 436), (54, 472), (56, 481),

Gene: BeeGee_1 Start: 82, Stop: 504, Start Num: 13

Candidate Starts for BeeGee_1:

(Start: 11 @73 has 1 MA's), (Start: 13 @82 has 23 MA's), (29, 226), (34, 265), (38, 325), (51, 436), (54, 472), (56, 481),

Gene: Bradissa_1 Start: 82, Stop: 504, Start Num: 13

Candidate Starts for Bradissa_1:

(Start: 11 @73 has 1 MA's), (Start: 13 @82 has 23 MA's), (29, 226), (34, 265), (38, 325), (51, 436), (54, 472), (56, 481),

Gene: BritBrat_1 Start: 82, Stop: 504, Start Num: 13

Candidate Starts for BritBrat_1:

(Start: 11 @73 has 1 MA's), (Start: 13 @82 has 23 MA's), (29, 226), (34, 265), (38, 325), (51, 436), (54, 472), (56, 481),

Gene: Cashline_1 Start: 82, Stop: 504, Start Num: 13

Candidate Starts for Cashline_1:

(Start: 11 @73 has 1 MA's), (Start: 13 @82 has 23 MA's), (29, 226), (32, 250), (34, 265), (38, 325), (42, 370), (51, 436), (54, 472), (56, 481),

Gene: Confidence_1 Start: 82, Stop: 504, Start Num: 13

Candidate Starts for Confidence_1:

(Start: 11 @73 has 1 MA's), (Start: 13 @82 has 23 MA's), (29, 226), (34, 265), (38, 325), (51, 436), (54, 472), (56, 481),

Gene: DS6A_1 Start: 246, Stop: 680, Start Num: 13

Candidate Starts for DS6A_1:

(Start: 13 @246 has 23 MA's), (16, 288), (19, 333), (25, 384), (34, 435), (39, 504), (48, 576), (50, 594), (53, 639), (54, 648), (57, 675),

Gene: Dubu_1 Start: 90, Stop: 557, Start Num: 8

Candidate Starts for Dubu_1:

(Start: 8 @90 has 1 MA's), (21, 252), (31, 294), (35, 324), (37, 336), (44, 435), (49, 465),

Gene: EMSquaredA_1 Start: 82, Stop: 504, Start Num: 13

Candidate Starts for EMSquaredA_1:

(Start: 11 @73 has 1 MA's), (Start: 13 @82 has 23 MA's), (29, 226), (34, 265), (38, 325), (51, 436), (54, 472), (56, 481),

Gene: EnalisNailo_1 Start: 82, Stop: 504, Start Num: 13

Candidate Starts for EnalisNailo_1:

(Start: 11 @73 has 1 MA's), (Start: 13 @82 has 23 MA's), (29, 226), (34, 265), (38, 325), (51, 436), (54, 472), (56, 481),

Gene: Farewell_1 Start: 97, Stop: 528, Start Num: 13

Candidate Starts for Farewell_1:

(6, 34), (9, 73), (Start: 13 @97 has 23 MA's), (20, 208), (34, 280), (45, 406), (48, 421), (54, 496),

Gene: Floral_1 Start: 82, Stop: 504, Start Num: 13

Candidate Starts for Floral_1:

(Start: 11 @73 has 1 MA's), (Start: 13 @82 has 23 MA's), (29, 226), (34, 265), (38, 325), (51, 436), (54, 472), (56, 481),

Gene: Gaia_1 Start: 129, Stop: 578, Start Num: 13

Candidate Starts for Gaia_1:

(12, 126), (Start: 13 @129 has 23 MA's), (15, 144), (17, 186), (19, 213), (23, 264), (26, 279), (30, 315), (34, 342), (36, 357), (38, 402), (41, 438), (45, 468), (46, 471), (51, 516), (54, 549), (55, 552),

Gene: Jablanski_1 Start: 82, Stop: 504, Start Num: 13

Candidate Starts for Jablanski_1:

(Start: 11 @73 has 1 MA's), (Start: 13 @82 has 23 MA's), (29, 226), (34, 265), (38, 325), (51, 436), (54, 472), (56, 481),

Gene: Lilas_1 Start: 73, Stop: 504, Start Num: 11

Candidate Starts for Lilas_1:

(Start: 11 @73 has 1 MA's), (Start: 13 @82 has 23 MA's), (29, 226), (34, 265), (38, 325), (51, 436), (54, 472), (56, 481),

Gene: LonelyBoi_1 Start: 82, Stop: 504, Start Num: 13

Candidate Starts for LonelyBoi_1:

(Start: 11 @73 has 1 MA's), (Start: 13 @82 has 23 MA's), (29, 226), (34, 265), (38, 325), (51, 436), (54, 472), (56, 481),

Gene: LunaStella_1 Start: 55, Stop: 477, Start Num: 13

Candidate Starts for LunaStella_1:

(2, 7), (3, 16), (Start: 13 @55 has 23 MA's), (18, 136), (34, 238), (39, 307), (40, 310), (48, 376), (51, 409), (54, 445), (56, 454),

Gene: Marteena_1 Start: 82, Stop: 504, Start Num: 13

Candidate Starts for Marteena_1:

(Start: 11 @73 has 1 MA's), (Start: 13 @82 has 23 MA's), (29, 226), (34, 265), (38, 325), (51, 436), (54, 472), (56, 481),

Gene: Nebkiss_1 Start: 130, Stop: 579, Start Num: 13

Candidate Starts for Nebkiss_1:

(4, 58), (Start: 13 @130 has 23 MA's), (15, 145), (17, 187), (19, 214), (20, 238), (22, 262), (24, 268), (27, 283), (28, 286), (33, 331), (34, 343), (37, 364), (42, 451), (51, 517), (54, 550), (55, 553),

Gene: Pollux_1 Start: 82, Stop: 504, Start Num: 13

Candidate Starts for Pollux_1:

(Start: 11 @73 has 1 MA's), (Start: 13 @82 has 23 MA's), (29, 226), (34, 265), (38, 325), (51, 436), (54, 472), (56, 481),

Gene: Posh_1 Start: 82, Stop: 504, Start Num: 13

Candidate Starts for Posh_1:

(Start: 11 @73 has 1 MA's), (Start: 13 @82 has 23 MA's), (29, 226), (34, 265), (38, 325), (51, 436), (54, 472), (56, 481),

Gene: Pytheas_1 Start: 82, Stop: 504, Start Num: 13

Candidate Starts for Pytheas_1:

(Start: 11 @73 has 1 MA's), (Start: 13 @82 has 23 MA's), (29, 226), (34, 265), (38, 325), (51, 436), (54, 472), (56, 481),

Gene: Renaud18_1 Start: 55, Stop: 477, Start Num: 13

Candidate Starts for Renaud18_1:

(3, 16), (Start: 13 @55 has 23 MA's), (18, 136), (34, 238), (39, 307), (48, 376), (54, 445), (56, 454),

Gene: Sparky_1 Start: 98, Stop: 529, Start Num: 13

Candidate Starts for Sparky_1:

(1, 2), (7, 35), (9, 74), (Start: 13 @98 has 23 MA's), (20, 209), (34, 281), (45, 407), (48, 422), (54, 497),

Gene: TChen_1 Start: 55, Stop: 477, Start Num: 13

Candidate Starts for TChen_1:

(2, 7), (3, 16), (Start: 13 @55 has 23 MA's), (18, 136), (34, 238), (39, 307), (40, 310), (48, 376), (51, 409), (54, 445), (56, 454),

Gene: TPA4_1 Start: 75, Stop: 497, Start Num: 10

Candidate Starts for TPA4_1:

(5, 24), (9, 69), (10, 75), (14, 102), (35, 279), (39, 336), (43, 384), (44, 390), (47, 402), (52, 441),

Gene: ThetaBob_1 Start: 55, Stop: 477, Start Num: 13

Candidate Starts for ThetaBob_1:

(3, 16), (Start: 13 @55 has 23 MA's), (18, 136), (34, 238), (39, 307), (40, 310), (48, 376), (54, 445), (56, 454),

Gene: Wrigley_1 Start: 82, Stop: 504, Start Num: 13

Candidate Starts for Wrigley_1:

(Start: 11 @73 has 1 MA's), (Start: 13 @82 has 23 MA's), (29, 226), (34, 265), (38, 325), (45, 388), (51, 436), (54, 472), (56, 481),