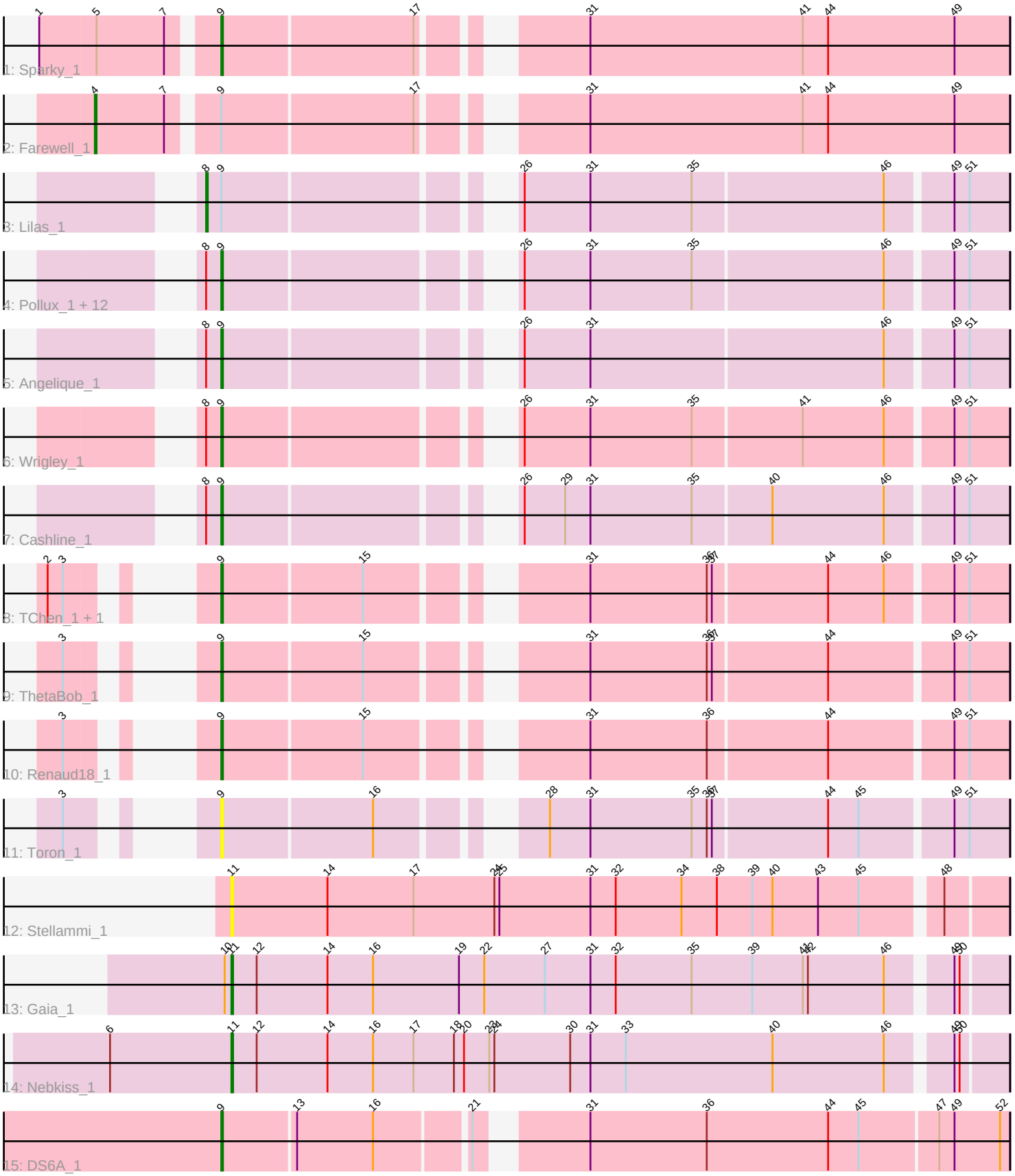
Pham 282390


1: Sparky_1
2: Farewell_1
3: Lilas_1
4: Pollux_1 + 12
5: Angelique_1
6: Wrigley_1
7: Cashline_1
8: TChen_1 + 1
9: ThetaBob_1
10: Renaud18_1
11: Toron_1
12: Stellammi_1
13: Gaia_1
14: Nebkiss_1
15: DS6A_1

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 282390 Report

This analysis was run 02/23/26 on database version 636.

Pham number 282390 has 28 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Sparky_1
• Track 2 : Farewell_1
• Track 3 : Lilas_1
• Track 4 : Pollux_1, EMsquaredA_1, Marteena_1, LonelyBoi_1, Posh_1, EnalisNailo_1, Floral_1, Bradissa_1, Jablanski_1, Pytheas_1, BeeGee_1, Confidence_1, BritBrat_1
• Track 5 : Angelique_1
• Track 6 : Wrigley_1
• Track 7 : Cashline_1
• Track 8 : TChen_1, LunaStella_1
• Track 9 : ThetaBob_1
• Track 10 : Renaud18_1
• Track 11 : Toron_1
• Track 12 : Stellammi_1
• Track 13 : Gaia_1
• Track 14 : Nebkiss_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 9, it was called in 22 of the 26 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, Floral_1, Jablanski_1, LonelyBoi_1, LunaStella_1, Marteena_1, Pollux_1, Posh_1, Pytheas_1, Renaud18_1, Sparky_1, TChen_1, ThetaBob_1, Toron_1, Wrigley_1,

Genes that have the "Most Annotated" start but do not call it:
• Farewell_1, Lilas_1,

Genes that do not have the "Most Annotated" start:
• Gaia_1, Nebkiss_1, Stellammi_1,

Summary by start number:

Start 4:
• Found in 1 of 28 (3.6%) of genes in pham
• Manual Annotations of this start: 1 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Farewell_1 (AF),

Start 8:
• Found in 17 of 28 (60.7%) of genes in pham
• Manual Annotations of this start: 1 of 26
• Called 5.9% of time when present
• Phage (with cluster) where this start called: Lilas_1 (CY1),

Start 9:
• Found in 25 of 28 (89.3%) of genes in pham
• Manual Annotations of this start: 22 of 26
• Called 92.0% of time when present
• Phage (with cluster) where this start called: Angelique_1 (CY1), BeeGee_1 (CY5), Bradissa_1 (CY1), BritBrat_1 (CY2), Cashline_1 (CY6), Confidence_1 (CY1), DS6A_1 (singleton), EMsquaredA_1 (CY1), EnalisNailo_1 (CY1), Floral_1 (CY1), Jablanski_1 (CY3), LonelyBoi_1 (CY7), LunaStella_1 (F4), Marteena_1 (CY1), Pollux_1 (CY1), Posh_1 (CY4), Pytheas_1 (CY3), Renaud18_1 (F4), Sparky_1 (AF), TChen_1 (F4), ThetaBob_1 (F4), Toron_1 (F6), Wrigley_1 (CY4),

Start 11:
• Found in 3 of 28 (10.7%) of genes in pham
• Manual Annotations of this start: 2 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Gaia_1 (X), Nebkiss_1 (X), Stellammi_1 (UNK),

Summary by clusters:

There are 13 clusters represented in this pham: CY3, CY2, CY1, F4, CY6, F6, CY4, AF, singleton, CY5, X, UNK, CY7,

Info for manual annotations of cluster AF:
•Start number 4 was manually annotated 1 time for cluster AF.
•Start number 9 was manually annotated 1 time for cluster AF.

Info for manual annotations of cluster CY1:
•Start number 8 was manually annotated 1 time for cluster CY1.
•Start number 9 was manually annotated 8 times for cluster CY1.

Info for manual annotations of cluster CY2:
•Start number 9 was manually annotated 1 time for cluster CY2.

Info for manual annotations of cluster CY3:
•Start number 9 was manually annotated 2 times for cluster CY3.

Info for manual annotations of cluster CY4:

•Start number 9 was manually annotated 2 times for cluster CY4.

Info for manual annotations of cluster CY5:
•Start number 9 was manually annotated 1 time for cluster CY5.

Info for manual annotations of cluster CY6:
•Start number 9 was manually annotated 1 time for cluster CY6.

Info for manual annotations of cluster CY7:
•Start number 9 was manually annotated 1 time for cluster CY7.

Info for manual annotations of cluster F4:
•Start number 9 was manually annotated 4 times for cluster F4.

Info for manual annotations of cluster X:
•Start number 11 was manually annotated 2 times for cluster X.

Gene Information:

Gene: Angelique_1 Start: 82, Stop: 504, Start Num: 9
Candidate Starts for Angelique_1:
(Start: 8 @73 has 1 MA's), (Start: 9 @82 has 22 MA's), (26, 226), (31, 265), (46, 436), (49, 472), (51, 481),

Gene: BeeGee_1 Start: 82, Stop: 504, Start Num: 9
Candidate Starts for BeeGee_1:
(Start: 8 @73 has 1 MA's), (Start: 9 @82 has 22 MA's), (26, 226), (31, 265), (35, 325), (46, 436), (49, 472), (51, 481),

Gene: Bradissa_1 Start: 82, Stop: 504, Start Num: 9
Candidate Starts for Bradissa_1:
(Start: 8 @73 has 1 MA's), (Start: 9 @82 has 22 MA's), (26, 226), (31, 265), (35, 325), (46, 436), (49, 472), (51, 481),

Gene: BritBrat_1 Start: 82, Stop: 504, Start Num: 9
Candidate Starts for BritBrat_1:
(Start: 8 @73 has 1 MA's), (Start: 9 @82 has 22 MA's), (26, 226), (31, 265), (35, 325), (46, 436), (49, 472), (51, 481),

Gene: Cashline_1 Start: 82, Stop: 504, Start Num: 9
Candidate Starts for Cashline_1:
(Start: 8 @73 has 1 MA's), (Start: 9 @82 has 22 MA's), (26, 226), (29, 250), (31, 265), (35, 325), (40, 370), (46, 436), (49, 472), (51, 481),

Gene: Confidence_1 Start: 82, Stop: 504, Start Num: 9
Candidate Starts for Confidence_1:
(Start: 8 @73 has 1 MA's), (Start: 9 @82 has 22 MA's), (26, 226), (31, 265), (35, 325), (46, 436), (49, 472), (51, 481),

Gene: DS6A_1 Start: 246, Stop: 680, Start Num: 9
Candidate Starts for DS6A_1:
(Start: 9 @246 has 22 MA's), (13, 288), (16, 333), (21, 384), (31, 435), (36, 504), (44, 576), (45, 594), (47, 639), (49, 648), (52, 675),

Gene: EMsquaredA_1 Start: 82, Stop: 504, Start Num: 9
Candidate Starts for EMsquaredA_1:
(Start: 8 @73 has 1 MA's), (Start: 9 @82 has 22 MA's), (26, 226), (31, 265), (35, 325), (46, 436), (49, 472), (51, 481),

Gene: EnalisNailo_1 Start: 82, Stop: 504, Start Num: 9
Candidate Starts for EnalisNailo_1:
(Start: 8 @73 has 1 MA's), (Start: 9 @82 has 22 MA's), (26, 226), (31, 265), (35, 325), (46, 436), (49, 472), (51, 481),

Gene: Farewell_1 Start: 34, Stop: 528, Start Num: 4
Candidate Starts for Farewell_1:
(Start: 4 @34 has 1 MA's), (7, 73), (Start: 9 @97 has 22 MA's), (17, 208), (31, 280), (41, 406), (44, 421), (49, 496),

Gene: Floral_1 Start: 82, Stop: 504, Start Num: 9
Candidate Starts for Floral_1:
(Start: 8 @73 has 1 MA's), (Start: 9 @82 has 22 MA's), (26, 226), (31, 265), (35, 325), (46, 436), (49, 472), (51, 481),

Gene: Gaia_1 Start: 129, Stop: 578, Start Num: 11
Candidate Starts for Gaia_1:
(10, 126), (Start: 11 @129 has 2 MA's), (12, 144), (14, 186), (16, 213), (19, 264), (22, 279), (27, 315), (31, 342), (32, 357), (35, 402), (39, 438), (41, 468), (42, 471), (46, 516), (49, 549), (50, 552),

Gene: Jablanski_1 Start: 82, Stop: 504, Start Num: 9
Candidate Starts for Jablanski_1:
(Start: 8 @73 has 1 MA's), (Start: 9 @82 has 22 MA's), (26, 226), (31, 265), (35, 325), (46, 436), (49, 472), (51, 481),

Gene: Lilas_1 Start: 73, Stop: 504, Start Num: 8
Candidate Starts for Lilas_1:
(Start: 8 @73 has 1 MA's), (Start: 9 @82 has 22 MA's), (26, 226), (31, 265), (35, 325), (46, 436), (49, 472), (51, 481),

Gene: LonelyBoi_1 Start: 82, Stop: 504, Start Num: 9
Candidate Starts for LonelyBoi_1:
(Start: 8 @73 has 1 MA's), (Start: 9 @82 has 22 MA's), (26, 226), (31, 265), (35, 325), (46, 436), (49, 472), (51, 481),

Gene: LunaStella_1 Start: 55, Stop: 477, Start Num: 9
Candidate Starts for LunaStella_1:
(2, 7), (3, 16), (Start: 9 @55 has 22 MA's), (15, 136), (31, 238), (36, 307), (37, 310), (44, 376), (46, 409), (49, 445), (51, 454),

Gene: Marteena_1 Start: 82, Stop: 504, Start Num: 9
Candidate Starts for Marteena_1:

(Start: 8 @73 has 1 MA's), (Start: 9 @82 has 22 MA's), (26, 226), (31, 265), (35, 325), (46, 436), (49, 472), (51, 481),

Gene: Nebkiss_1 Start: 130, Stop: 579, Start Num: 11
Candidate Starts for Nebkiss_1:
(6, 58), (Start: 11 @130 has 2 MA's), (12, 145), (14, 187), (16, 214), (17, 238), (18, 262), (20, 268), (23, 283), (24, 286), (30, 331), (31, 343), (33, 364), (40, 451), (46, 517), (49, 550), (50, 553),

Gene: Pollux_1 Start: 82, Stop: 504, Start Num: 9
Candidate Starts for Pollux_1:
(Start: 8 @73 has 1 MA's), (Start: 9 @82 has 22 MA's), (26, 226), (31, 265), (35, 325), (46, 436), (49, 472), (51, 481),

Gene: Posh_1 Start: 82, Stop: 504, Start Num: 9
Candidate Starts for Posh_1:
(Start: 8 @73 has 1 MA's), (Start: 9 @82 has 22 MA's), (26, 226), (31, 265), (35, 325), (46, 436), (49, 472), (51, 481),

Gene: Pytheas_1 Start: 82, Stop: 504, Start Num: 9
Candidate Starts for Pytheas_1:
(Start: 8 @73 has 1 MA's), (Start: 9 @82 has 22 MA's), (26, 226), (31, 265), (35, 325), (46, 436), (49, 472), (51, 481),

Gene: Renaud18_1 Start: 55, Stop: 477, Start Num: 9
Candidate Starts for Renaud18_1:
(3, 16), (Start: 9 @55 has 22 MA's), (15, 136), (31, 238), (36, 307), (44, 376), (49, 445), (51, 454),

Gene: Sparky_1 Start: 98, Stop: 529, Start Num: 9
Candidate Starts for Sparky_1:
(1, 2), (5, 35), (7, 74), (Start: 9 @98 has 22 MA's), (17, 209), (31, 281), (41, 407), (44, 422), (49, 497),

Gene: Stellammi_1 Start: 109, Stop: 558, Start Num: 11
Candidate Starts for Stellammi_1:
(Start: 11 @109 has 2 MA's), (14, 166), (17, 217), (24, 265), (25, 268), (31, 322), (32, 337), (34, 376), (38, 397), (39, 418), (40, 430), (43, 457), (45, 481), (48, 523),

Gene: TChen_1 Start: 55, Stop: 477, Start Num: 9
Candidate Starts for TChen_1:
(2, 7), (3, 16), (Start: 9 @55 has 22 MA's), (15, 136), (31, 238), (36, 307), (37, 310), (44, 376), (46, 409), (49, 445), (51, 454),

Gene: ThetaBob_1 Start: 55, Stop: 477, Start Num: 9
Candidate Starts for ThetaBob_1:
(3, 16), (Start: 9 @55 has 22 MA's), (15, 136), (31, 238), (36, 307), (37, 310), (44, 376), (49, 445), (51, 454),

Gene: Toron_1 Start: 55, Stop: 477, Start Num: 9
Candidate Starts for Toron_1:
(3, 16), (Start: 9 @55 has 22 MA's), (16, 142), (28, 214), (31, 238), (35, 298), (36, 307), (37, 310), (44, 376), (45, 394), (49, 445), (51, 454),

Gene: Wrigley_1 Start: 82, Stop: 504, Start Num: 9
Candidate Starts for Wrigley_1:

(Start: 8 @73 has 1 MA's), (Start: 9 @82 has 22 MA's), (26, 226), (31, 265), (35, 325), (41, 388), (46, 436), (49, 472), (51, 481),