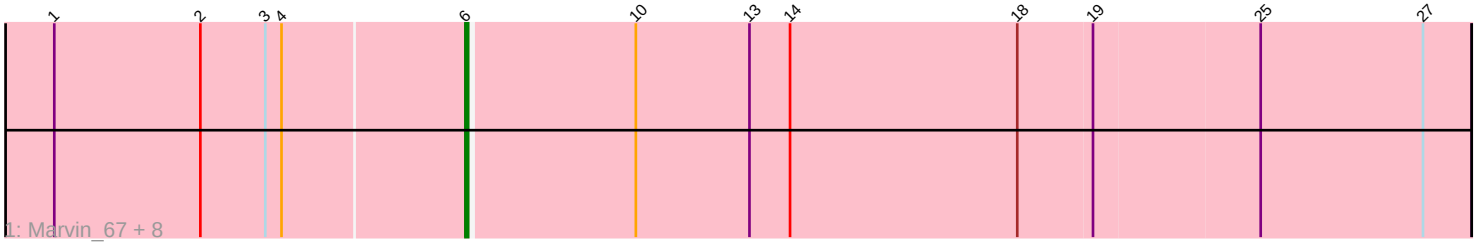
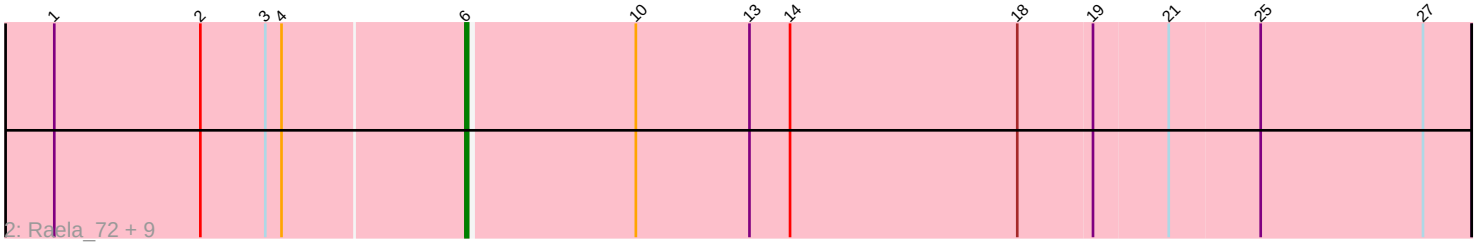
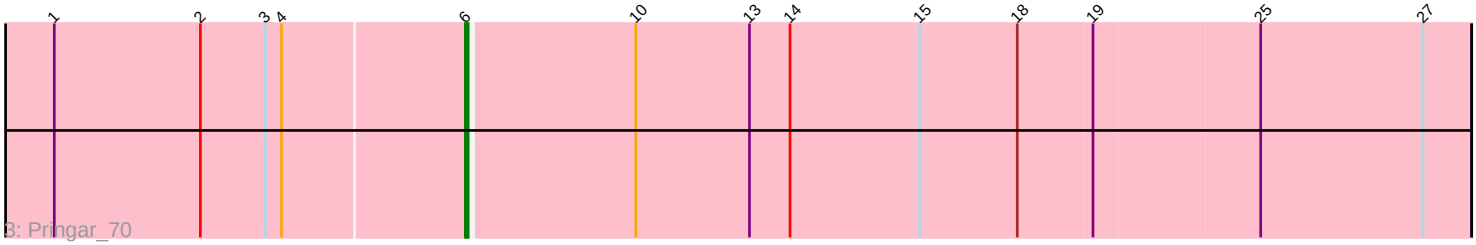
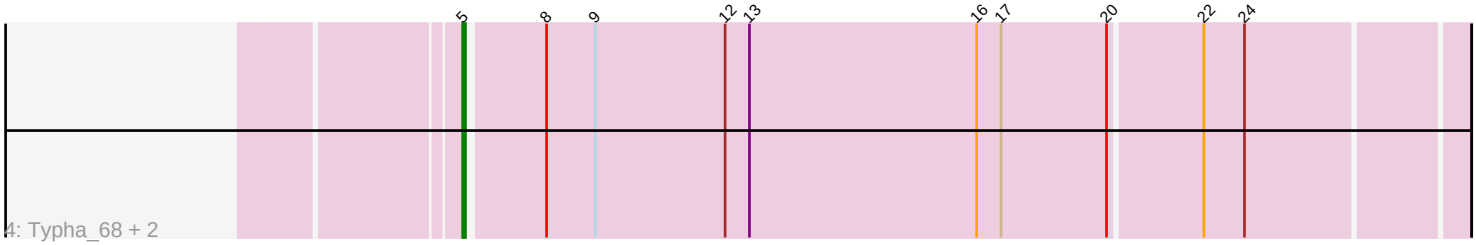
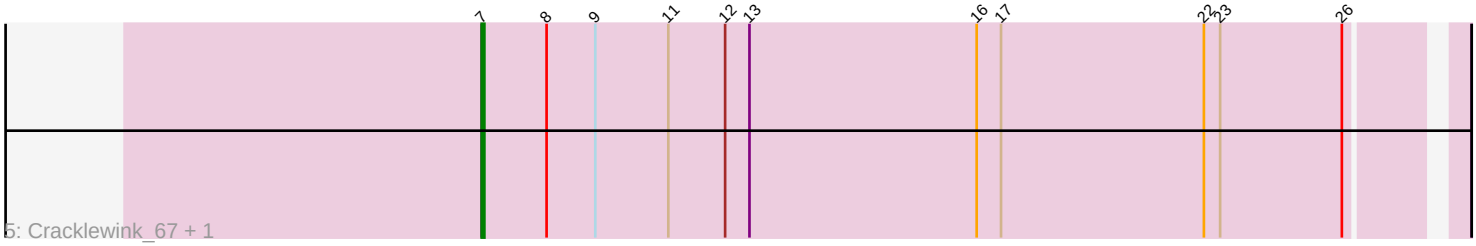
Pham 344310

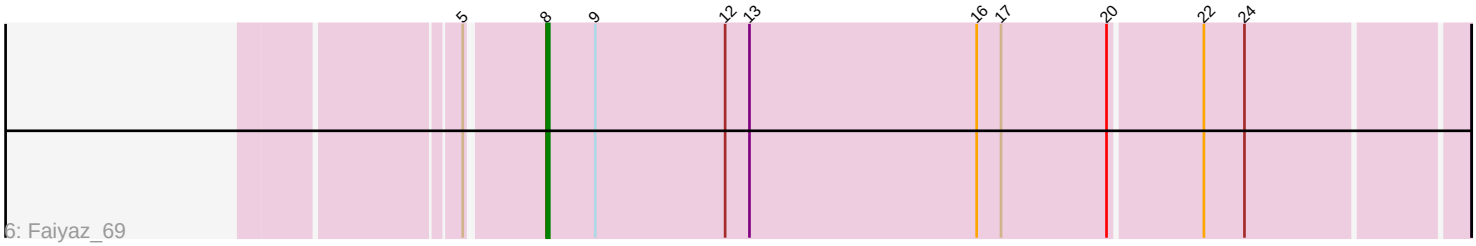

1
2
3
4
6
10
13
14
18
19
25
27
1: Marvin_67 + 8


1
2
3
4
6
10
13
14
18
19
21
25
27
2: Raela_72 + 9


1
2
3
4
6
10
13
14
15
18
19
25
27
3: Pringar_70


5
8
9
12
13
16
17
20
22
24
4: Typha_68 + 2


7
8
9
11
12
13
16
17
22
23
26
5: Cracklewink_67 + 1


5
8
9
12
13
16
17
20
22
24
6: Faiyaz_69

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 344310 Report

This analysis was run 11/14/26 on database version 672.

Pham number 344310 has 26 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Marvin_67, Corazon_69, Caprice_71, FeliMaine_74, Beelzebub_76, JoieB_73, Clarkson_73, VasuNzinga_70, Huphlepuff_74
• Track 2 : Raela_72, Lilbit_69, RedRaider77_71, Poise_72, Gattaca_69, MosMoris_68, LittleLaf_71, GoongGoong_71, Tesla_68, Blackbeetle_72
• Track 3 : Pringar_70
• Track 4 : Typha_68, AuntGwenStacy_69, Hilltopfarm_68
• Track 5 : Cracklewink_67, Bipper_68
• Track 6 : Faiyaz_69

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

The start number called the most often in the published annotations is 6, it was called in 20 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Beelzebub_76, Blackbeetle_72, Caprice_71, Clarkson_73, Corazon_69, FeliMaine_74, Gattaca_69, GoongGoong_71, Huphlepuff_74, JoieB_73, Lilbit_69, LittleLaf_71, Marvin_67, MosMoris_68, Poise_72, Pringar_70, Raela_72, RedRaider77_71, Tesla_68, VasuNzinga_70,

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

Genes that do not have the "Most Annotated" start:
• AuntGwenStacy_69, Bipper_68, Cracklewink_67, Faiyaz_69, Hilltopfarm_68, Typha_68,

Summary by start number:

Start 5:
• Found in 4 of 26 (15.4%) of genes in pham
• Manual Annotations of this start: 3 of 26
• Called 75.0% of time when present

• Phage (with cluster) where this start called: AuntGwenStacy_69 (Y), Hilltopfarm_68 (Y), Typha_68 (Y),

Start 6:
• Found in 20 of 26 (76.9%) of genes in pham
• Manual Annotations of this start: 20 of 26
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Beelzebub_76 (S), Blackbeetle_72 (S), Caprice_71 (S), Clarkson_73 (S), Corazon_69 (S), FeliMaine_74 (S), Gattaca_69 (S), GoongGoong_71 (S), Huphlepuff_74 (S), JoieB_73 (S), Lilbit_69 (S), LittleLaf_71 (S), Marvin_67 (S), MosMoris_68 (S), Poise_72 (S), Pringar_70 (S), Raela_72 (S), RedRaider77_71 (S), Tesla_68 (S), VasuNzinga_70 (S),

Start 7:
• Found in 2 of 26 (7.7%) 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: Bipper_68 (Y), Cracklewink_67 (Y),

Start 8:
• Found in 6 of 26 (23.1%) of genes in pham
• Manual Annotations of this start: 1 of 26
• Called 16.7% of time when present
• Phage (with cluster) where this start called: Faiyaz_69 (Y),

Summary by clusters:

There are 2 clusters represented in this pham: Y, S,

Info for manual annotations of cluster S:
•Start number 6 was manually annotated 20 times for cluster S.

Info for manual annotations of cluster Y:
•Start number 5 was manually annotated 3 times for cluster Y.
•Start number 7 was manually annotated 2 times for cluster Y.
•Start number 8 was manually annotated 1 time for cluster Y.

Gene Information:

Gene: AuntGwenStacy_69 Start: 48322, Stop: 48681, Start Num: 5
Candidate Starts for AuntGwenStacy_69:
(Start: 5 @48322 has 3 MA's), (Start: 8 @48349 has 1 MA's), (9, 48367), (12, 48415), (13, 48424), (16, 48508), (17, 48517), (20, 48556), (22, 48589), (24, 48604),

Gene: Beelzebub_76 Start: 41016, Stop: 41381, Start Num: 6
Candidate Starts for Beelzebub_76:
(1, 40866), (2, 40920), (3, 40944), (4, 40950), (Start: 6 @41016 has 20 MA's), (10, 41076), (13, 41118), (14, 41133), (18, 41217), (19, 41244), (25, 41304), (27, 41364),

Gene: Bipper_68 Start: 48081, Stop: 48434, Start Num: 7
Candidate Starts for Bipper_68:

(Start: 7 @48081 has 2 MA's), (Start: 8 @48105 has 1 MA's), (9, 48123), (11, 48150), (12, 48171), (13, 48180), (16, 48264), (17, 48273), (22, 48348), (23, 48354), (26, 48399),

Gene: Blackbeetle_72 Start: 40028, Stop: 40393, Start Num: 6
Candidate Starts for Blackbeetle_72:
(1, 39878), (2, 39932), (3, 39956), (4, 39962), (Start: 6 @40028 has 20 MA's), (10, 40088), (13, 40130), (14, 40145), (18, 40229), (19, 40256), (21, 40283), (25, 40316), (27, 40376),

Gene: Caprice_71 Start: 40342, Stop: 40707, Start Num: 6
Candidate Starts for Caprice_71:
(1, 40192), (2, 40246), (3, 40270), (4, 40276), (Start: 6 @40342 has 20 MA's), (10, 40402), (13, 40444), (14, 40459), (18, 40543), (19, 40570), (25, 40630), (27, 40690),

Gene: Clarkson_73 Start: 40744, Stop: 41109, Start Num: 6
Candidate Starts for Clarkson_73:
(1, 40594), (2, 40648), (3, 40672), (4, 40678), (Start: 6 @40744 has 20 MA's), (10, 40804), (13, 40846), (14, 40861), (18, 40945), (19, 40972), (25, 41032), (27, 41092),

Gene: Corazon_69 Start: 40938, Stop: 41303, Start Num: 6
Candidate Starts for Corazon_69:
(1, 40788), (2, 40842), (3, 40866), (4, 40872), (Start: 6 @40938 has 20 MA's), (10, 40998), (13, 41040), (14, 41055), (18, 41139), (19, 41166), (25, 41226), (27, 41286),

Gene: Cracklewink_67 Start: 47115, Stop: 47468, Start Num: 7
Candidate Starts for Cracklewink_67:
(Start: 7 @47115 has 2 MA's), (Start: 8 @47139 has 1 MA's), (9, 47157), (11, 47184), (12, 47205), (13, 47214), (16, 47298), (17, 47307), (22, 47382), (23, 47388), (26, 47433),

Gene: Faiyaz_69 Start: 48355, Stop: 48687, Start Num: 8
Candidate Starts for Faiyaz_69:
(Start: 5 @48328 has 3 MA's), (Start: 8 @48355 has 1 MA's), (9, 48373), (12, 48421), (13, 48430), (16, 48514), (17, 48523), (20, 48562), (22, 48595), (24, 48610),

Gene: FeliMaine_74 Start: 40986, Stop: 41351, Start Num: 6
Candidate Starts for FeliMaine_74:
(1, 40836), (2, 40890), (3, 40914), (4, 40920), (Start: 6 @40986 has 20 MA's), (10, 41046), (13, 41088), (14, 41103), (18, 41187), (19, 41214), (25, 41274), (27, 41334),

Gene: Gattaca_69 Start: 40132, Stop: 40497, Start Num: 6
Candidate Starts for Gattaca_69:
(1, 39982), (2, 40036), (3, 40060), (4, 40066), (Start: 6 @40132 has 20 MA's), (10, 40192), (13, 40234), (14, 40249), (18, 40333), (19, 40360), (21, 40387), (25, 40420), (27, 40480),

Gene: GoongGoong_71 Start: 39931, Stop: 40296, Start Num: 6
Candidate Starts for GoongGoong_71:
(1, 39781), (2, 39835), (3, 39859), (4, 39865), (Start: 6 @39931 has 20 MA's), (10, 39991), (13, 40033), (14, 40048), (18, 40132), (19, 40159), (21, 40186), (25, 40219), (27, 40279),

Gene: Hilltopfarm_68 Start: 48031, Stop: 48390, Start Num: 5
Candidate Starts for Hilltopfarm_68:
(Start: 5 @48031 has 3 MA's), (Start: 8 @48058 has 1 MA's), (9, 48076), (12, 48124), (13, 48133), (16, 48217), (17, 48226), (20, 48265), (22, 48298), (24, 48313),

Gene: Huphlepuff_74 Start: 40549, Stop: 40914, Start Num: 6
Candidate Starts for Huphlepuff_74:
(1, 40399), (2, 40453), (3, 40477), (4, 40483), (Start: 6 @40549 has 20 MA's), (10, 40609), (13, 40651), (14, 40666), (18, 40750), (19, 40777), (25, 40837), (27, 40897),

Gene: JoieB_73 Start: 40982, Stop: 41347, Start Num: 6
Candidate Starts for JoieB_73:
(1, 40832), (2, 40886), (3, 40910), (4, 40916), (Start: 6 @40982 has 20 MA's), (10, 41042), (13, 41084), (14, 41099), (18, 41183), (19, 41210), (25, 41270), (27, 41330),

Gene: Lilbit_69 Start: 40712, Stop: 41077, Start Num: 6
Candidate Starts for Lilbit_69:
(1, 40562), (2, 40616), (3, 40640), (4, 40646), (Start: 6 @40712 has 20 MA's), (10, 40772), (13, 40814), (14, 40829), (18, 40913), (19, 40940), (21, 40967), (25, 41000), (27, 41060),

Gene: LittleLaf_71 Start: 40441, Stop: 40806, Start Num: 6
Candidate Starts for LittleLaf_71:
(1, 40291), (2, 40345), (3, 40369), (4, 40375), (Start: 6 @40441 has 20 MA's), (10, 40501), (13, 40543), (14, 40558), (18, 40642), (19, 40669), (21, 40696), (25, 40729), (27, 40789),

Gene: Marvin_67 Start: 40202, Stop: 40567, Start Num: 6
Candidate Starts for Marvin_67:
(1, 40052), (2, 40106), (3, 40130), (4, 40136), (Start: 6 @40202 has 20 MA's), (10, 40262), (13, 40304), (14, 40319), (18, 40403), (19, 40430), (25, 40490), (27, 40550),

Gene: MosMoris_68 Start: 40132, Stop: 40497, Start Num: 6
Candidate Starts for MosMoris_68:
(1, 39982), (2, 40036), (3, 40060), (4, 40066), (Start: 6 @40132 has 20 MA's), (10, 40192), (13, 40234), (14, 40249), (18, 40333), (19, 40360), (21, 40387), (25, 40420), (27, 40480),

Gene: Poise_72 Start: 40028, Stop: 40393, Start Num: 6
Candidate Starts for Poise_72:
(1, 39878), (2, 39932), (3, 39956), (4, 39962), (Start: 6 @40028 has 20 MA's), (10, 40088), (13, 40130), (14, 40145), (18, 40229), (19, 40256), (21, 40283), (25, 40316), (27, 40376),

Gene: Pringar_70 Start: 40350, Stop: 40715, Start Num: 6
Candidate Starts for Pringar_70:
(1, 40200), (2, 40254), (3, 40278), (4, 40284), (Start: 6 @40350 has 20 MA's), (10, 40410), (13, 40452), (14, 40467), (15, 40515), (18, 40551), (19, 40578), (25, 40638), (27, 40698),

Gene: Raela_72 Start: 40585, Stop: 40950, Start Num: 6
Candidate Starts for Raela_72:
(1, 40435), (2, 40489), (3, 40513), (4, 40519), (Start: 6 @40585 has 20 MA's), (10, 40645), (13, 40687), (14, 40702), (18, 40786), (19, 40813), (21, 40840), (25, 40873), (27, 40933),

Gene: RedRaider77_71 Start: 39973, Stop: 40338, Start Num: 6
Candidate Starts for RedRaider77_71:
(1, 39823), (2, 39877), (3, 39901), (4, 39907), (Start: 6 @39973 has 20 MA's), (10, 40033), (13, 40075), (14, 40090), (18, 40174), (19, 40201), (21, 40228), (25, 40261), (27, 40321),

Gene: Tesla_68 Start: 39822, Stop: 40187, Start Num: 6
Candidate Starts for Tesla_68:

(1, 39672), (2, 39726), (3, 39750), (4, 39756), (Start: 6 @39822 has 20 MA's), (10, 39882), (13, 39924), (14, 39939), (18, 40023), (19, 40050), (21, 40077), (25, 40110), (27, 40170),

Gene: Typha_68 Start: 48322, Stop: 48681, Start Num: 5
Candidate Starts for Typha_68:
(Start: 5 @48322 has 3 MA's), (Start: 8 @48349 has 1 MA's), (9, 48367), (12, 48415), (13, 48424), (16, 48508), (17, 48517), (20, 48556), (22, 48589), (24, 48604),

Gene: VasuNzinga_70 Start: 39924, Stop: 40289, Start Num: 6
Candidate Starts for VasuNzinga_70:
(1, 39774), (2, 39828), (3, 39852), (4, 39858), (Start: 6 @39924 has 20 MA's), (10, 39984), (13, 40026), (14, 40041), (18, 40125), (19, 40152), (25, 40212), (27, 40272),