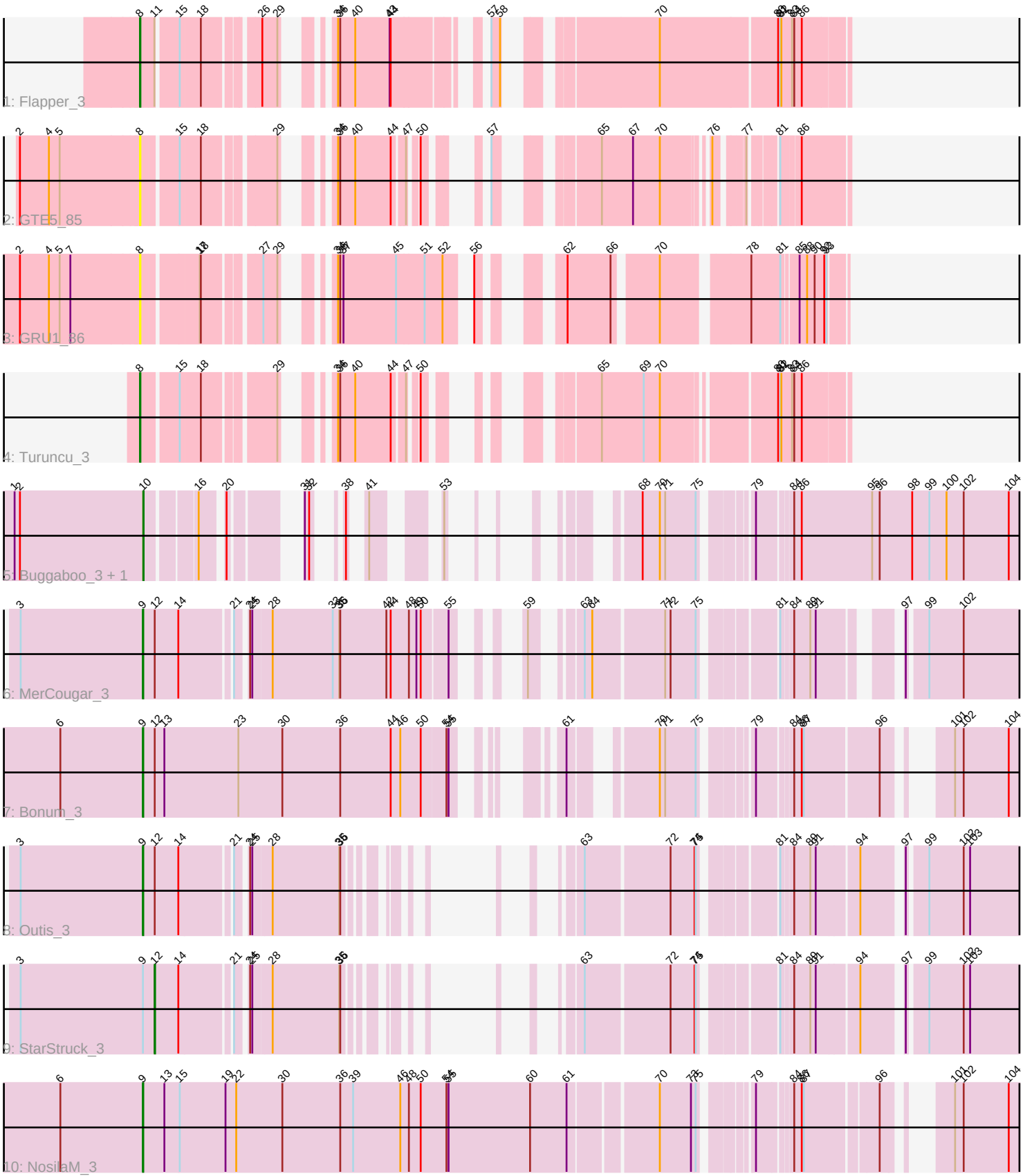
Pham 305477


1: Flapper_3
2: GTE5_85
3: GRU1_86
4: Turuncu_3
5: Buggaboo_3 + 1
6: MerCougar_3
7: Bonum_3
8: Outis_3
9: StarStruck_3
10: NosillaM_3

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 305477 Report

This analysis was run 06/08/26 on database version 649.

Pham number 305477 has 11 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Flapper_3
• Track 2 : GTE5_85
• Track 3 : GRU1_86
• Track 4 : Turuncu_3
• Track 5 : Buggaboo_3, SuperSulley_3
• Track 6 : MerCougar_3
• Track 7 : Bonum_3
• Track 8 : Outis_3
• Track 9 : StarStruck_3
• Track 10 : NosilaM_3

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

Genes that call this "Most Annotated" start:
• Bonum_3, MerCougar_3, NosilaM_3, Outis_3,

Genes that have the "Most Annotated" start but do not call it:
• StarStruck_3,

Genes that do not have the "Most Annotated" start:
• Buggaboo_3, Flapper_3, GRU1_86, GTE5_85, SuperSulley_3, Turuncu_3,

Summary by start number:

Start 8:
• Found in 4 of 11 (36.4%) of genes in pham
• Manual Annotations of this start: 2 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Flapper_3 (CR1), GRU1_86 (CR1), GTE5_85 (CR1), Turuncu_3 (CR1),

Start 9:
• Found in 5 of 11 (45.5%) of genes in pham
• Manual Annotations of this start: 4 of 9
• Called 80.0% of time when present
• Phage (with cluster) where this start called: Bonum_3 (CR2), MerCougar_3 (CR2), NosilaM_3 (CR2), Outis_3 (CR2),

Start 10:
• Found in 2 of 11 (18.2%) of genes in pham
• Manual Annotations of this start: 2 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Buggaboo_3 (CR2), SuperSulley_3 (CR2),

Start 12:
• Found in 4 of 11 (36.4%) of genes in pham
• Manual Annotations of this start: 1 of 9
• Called 25.0% of time when present
• Phage (with cluster) where this start called: StarStruck_3 (CR2),

Summary by clusters:

There are 2 clusters represented in this pham: CR2, CR1,

Info for manual annotations of cluster CR1:
•Start number 8 was manually annotated 2 times for cluster CR1.

Info for manual annotations of cluster CR2:
•Start number 9 was manually annotated 4 times for cluster CR2.
•Start number 10 was manually annotated 2 times for cluster CR2.
•Start number 12 was manually annotated 1 time for cluster CR2.

Gene Information:

Gene: Bonum_3 Start: 1829, Stop: 3790, Start Num: 9
Candidate Starts for Bonum_3:
(6, 1598), (Start: 9 @1829 has 4 MA's), (Start: 12 @1862 has 1 MA's), (13, 1889), (23, 2096), (30, 2219), (36, 2381), (44, 2522), (46, 2549), (50, 2606), (54, 2669), (55, 2675), (61, 2813), (70, 2990), (71, 3005), (75, 3089), (79, 3194), (84, 3275), (86, 3296), (87, 3302), (96, 3500), (101, 3599), (102, 3623), (104, 3746),

Gene: Buggaboo_3 Start: 1859, Stop: 3445, Start Num: 10
Candidate Starts for Buggaboo_3:
(1, 1499), (2, 1514), (Start: 10 @1859 has 2 MA's), (16, 1976), (20, 2021), (31, 2144), (32, 2156), (38, 2180), (41, 2198), (53, 2300), (68, 2474), (70, 2522), (71, 2537), (75, 2621), (79, 2726), (84, 2807), (86, 2828), (95, 3023), (96, 3044), (98, 3134), (99, 3182), (100, 3230), (102, 3278), (104, 3401),

Gene: Flapper_3 Start: 1748, Stop: 3301, Start Num: 8
Candidate Starts for Flapper_3:
(Start: 8 @1748 has 2 MA's), (11, 1781), (15, 1835), (18, 1889), (26, 2021), (29, 2063), (34, 2126), (36, 2132), (40, 2174), (43, 2270), (44, 2273), (57, 2453), (58, 2477), (70, 2798), (80, 3116), (81, 3122), (82,

3125), (83, 3155), (84, 3161), (86, 3182),

Gene: GRU1_86 Start: 60814, Stop: 62319, Start Num: 8
Candidate Starts for GRU1_86:
(2, 60487), (4, 60565), (5, 60595), (7, 60625), (Start: 8 @60814 has 2 MA's), (17, 60952), (18, 60955), (27, 61090), (29, 61129), (34, 61192), (36, 61198), (37, 61207), (45, 61354), (51, 61432), (52, 61477), (56, 61519), (62, 61645), (66, 61762), (70, 61870), (78, 62086), (81, 62167), (85, 62203), (88, 62224), (90, 62245), (92, 62272), (93, 62278),

Gene: GTE5_85 Start: 61835, Stop: 63214, Start Num: 8
Candidate Starts for GTE5_85:
(2, 61508), (4, 61586), (5, 61616), (Start: 8 @61835 has 2 MA's), (15, 61925), (18, 61979), (29, 62153), (34, 62216), (36, 62222), (40, 62264), (44, 62363), (47, 62393), (50, 62411), (57, 62471), (65, 62657), (67, 62741), (70, 62816), (76, 62921), (77, 62984), (81, 63041), (86, 63086),

Gene: MerCougar_3 Start: 1858, Stop: 3819, Start Num: 9
Candidate Starts for MerCougar_3:
(3, 1516), (Start: 9 @1858 has 4 MA's), (Start: 12 @1891 has 1 MA's), (14, 1957), (21, 2086), (24, 2110), (25, 2116), (28, 2164), (33, 2332), (35, 2350), (36, 2353), (42, 2482), (44, 2494), (48, 2545), (49, 2566), (50, 2578), (55, 2647), (59, 2722), (63, 2806), (64, 2827), (71, 3016), (72, 3031), (75, 3100), (81, 3262), (84, 3289), (89, 3334), (91, 3349), (97, 3508), (99, 3556), (102, 3652),

Gene: NosilaM_3 Start: 1871, Stop: 4069, Start Num: 9
Candidate Starts for NosilaM_3:
(6, 1640), (Start: 9 @1871 has 4 MA's), (13, 1931), (15, 1973), (19, 2096), (22, 2126), (30, 2255), (36, 2417), (39, 2453), (46, 2585), (48, 2609), (50, 2642), (54, 2714), (55, 2720), (60, 2948), (61, 3050), (70, 3275), (73, 3362), (75, 3374), (79, 3479), (84, 3560), (86, 3581), (87, 3587), (96, 3776), (101, 3875), (102, 3899), (104, 4025),

Gene: Outis_3 Start: 1858, Stop: 3594, Start Num: 9
Candidate Starts for Outis_3:
(3, 1516), (Start: 9 @1858 has 4 MA's), (Start: 12 @1891 has 1 MA's), (14, 1957), (21, 2086), (24, 2110), (25, 2116), (28, 2164), (35, 2350), (36, 2353), (63, 2533), (72, 2758), (74, 2824), (75, 2827), (81, 2989), (84, 3016), (89, 3061), (91, 3076), (94, 3187), (97, 3283), (99, 3331), (102, 3427), (103, 3445),

Gene: StarStruck_3 Start: 1891, Stop: 3594, Start Num: 12
Candidate Starts for StarStruck_3:
(3, 1516), (Start: 9 @1858 has 4 MA's), (Start: 12 @1891 has 1 MA's), (14, 1957), (21, 2086), (24, 2110), (25, 2116), (28, 2164), (35, 2350), (36, 2353), (63, 2533), (72, 2758), (74, 2824), (75, 2827), (81, 2989), (84, 3016), (89, 3061), (91, 3076), (94, 3187), (97, 3283), (99, 3331), (102, 3427), (103, 3445),

Gene: SuperSulley_3 Start: 1859, Stop: 3445, Start Num: 10
Candidate Starts for SuperSulley_3:
(1, 1499), (2, 1514), (Start: 10 @1859 has 2 MA's), (16, 1976), (20, 2021), (31, 2144), (32, 2156), (38, 2180), (41, 2198), (53, 2300), (68, 2474), (70, 2522), (71, 2537), (75, 2621), (79, 2726), (84, 2807), (86, 2828), (95, 3023), (96, 3044), (98, 3134), (99, 3182), (100, 3230), (102, 3278), (104, 3401),

Gene: Turuncu_3 Start: 1749, Stop: 3197, Start Num: 8
Candidate Starts for Turuncu_3:
(Start: 8 @1749 has 2 MA's), (15, 1839), (18, 1893), (29, 2067), (34, 2130), (36, 2136), (40, 2178), (44, 2277), (47, 2307), (50, 2325), (65, 2571), (69, 2685), (70, 2730), (80, 3012), (81, 3018), (82, 3021), (83, 3051), (84, 3057), (86, 3078),