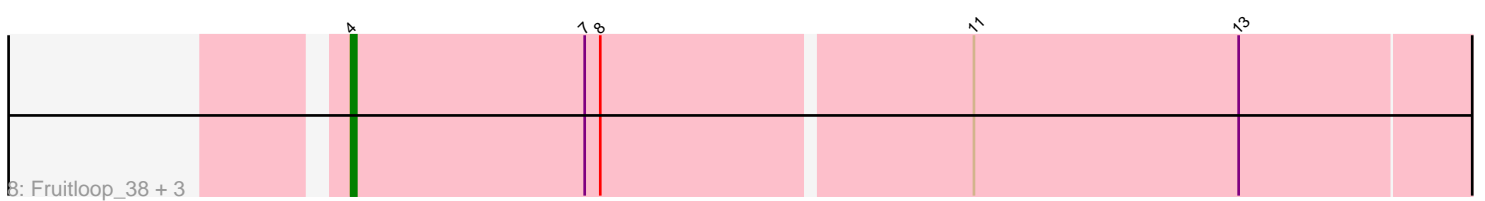
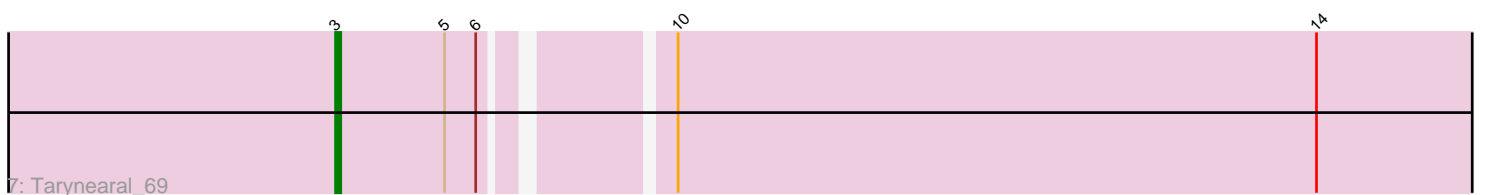
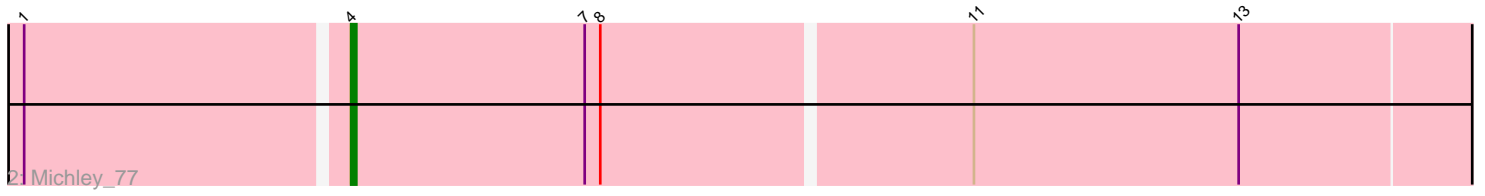
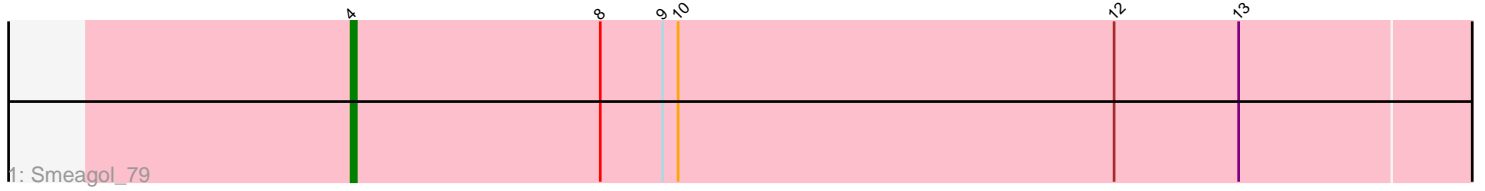


Pham 163948



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 163948 Report

This analysis was run 04/28/24 on database version 559.

Pham number 163948 has 19 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Smeagol_79
- Track 2 : Michley_77
- Track 3 : HuhtaEnerson15_68, Bonamassa_70, LittleCherry_69
- Track 4 : Swirley_70
- Track 5 : Phlorence_69, AgentM_70
- Track 6 : Conspiracy_71, Discoknowium_68, ForGetIt_71, Aragog_70, Lev2_71, PickleBack_71
- Track 7 : Tarynearal_69
- Track 8 : Fruitloop_38, LunaBlu_43, Batiatus_39, Melissauren88_39

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

The start number called the most often in the published annotations is 3, it was called in 10 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AgentM_70, Aragog_70, Conspiracy_71, Discoknowium_68, ForGetIt_71, Lev2_71, Phlorence_69, PickleBack_71, Swirley_70, Tarynearal_69,

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

-

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

- Batiatus_39, Bonamassa_70, Fruitloop_38, HuhtaEnerson15_68, LittleCherry_69, LunaBlu_43, Melissauren88_39, Michley_77, Smeagol_79,

Summary by start number:

Start 2:

- Found in 3 of 19 (15.8%) of genes in pham
- Manual Annotations of this start: 3 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bonamassa_70 (A5), HuhtaEnerson15_68 (A5), LittleCherry_69 (A5),

Start 3:

- Found in 10 of 19 (52.6%) of genes in pham
- Manual Annotations of this start: 10 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AgentM_70 (A5), Aragog_70 (A5), Conspiracy_71 (A5), Discoknowium_68 (A5), ForGetIt_71 (A5), Lev2_71 (A5), Phlorence_69 (A5), PickleBack_71 (A5), Swirley_70 (A5), Tarynearal_69 (A5),

Start 4:

- Found in 6 of 19 (31.6%) of genes in pham
- Manual Annotations of this start: 6 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Batiatus_39 (F1), Fruitloop_38 (F1), LunaBlu_43 (F1), Melissauren88_39 (F1), Michley_77 (A1), Smeagol_79 (A1),

Summary by clusters:

There are 3 clusters represented in this pham: A1, F1, A5,

Info for manual annotations of cluster A1:

- Start number 4 was manually annotated 2 times for cluster A1.

Info for manual annotations of cluster A5:

- Start number 2 was manually annotated 3 times for cluster A5.
- Start number 3 was manually annotated 10 times for cluster A5.

Info for manual annotations of cluster F1:

- Start number 4 was manually annotated 4 times for cluster F1.

Gene Information:

Gene: AgentM_70 Start: 44113, Stop: 43817, Start Num: 3

Candidate Starts for AgentM_70:

(Start: 3 @44113 has 10 MA's), (5, 44092),

Gene: Aragog_70 Start: 44131, Stop: 43835, Start Num: 3

Candidate Starts for Aragog_70:

(Start: 3 @44131 has 10 MA's), (5, 44110), (14, 43951),

Gene: Batiatus_39 Start: 31386, Stop: 31150, Start Num: 4

Candidate Starts for Batiatus_39:

(Start: 4 @31386 has 6 MA's), (7, 31341), (8, 31338), (11, 31269), (13, 31218),

Gene: Bonamassa_70 Start: 44301, Stop: 43999, Start Num: 2

Candidate Starts for Bonamassa_70:

(Start: 2 @44301 has 3 MA's), (5, 44274), (6, 44268), (14, 44115),

Gene: Conspiracy_71 Start: 44353, Stop: 44057, Start Num: 3

Candidate Starts for Conspiracy_71:

(Start: 3 @44353 has 10 MA's), (5, 44332), (14, 44173),

Gene: Discoknowium_68 Start: 43870, Stop: 43574, Start Num: 3
Candidate Starts for Discoknowium_68:
(Start: 3 @43870 has 10 MA's), (5, 43849), (14, 43690),

Gene: ForGetIt_71 Start: 44378, Stop: 44082, Start Num: 3
Candidate Starts for ForGetIt_71:
(Start: 3 @44378 has 10 MA's), (5, 44357), (14, 44198),

Gene: Fruitloop_38 Start: 31549, Stop: 31313, Start Num: 4
Candidate Starts for Fruitloop_38:
(Start: 4 @31549 has 6 MA's), (7, 31504), (8, 31501), (11, 31432), (13, 31381),

Gene: HuhtaEnerson15_68 Start: 43954, Stop: 43652, Start Num: 2
Candidate Starts for HuhtaEnerson15_68:
(Start: 2 @43954 has 3 MA's), (5, 43927), (6, 43921), (14, 43768),

Gene: Lev2_71 Start: 44266, Stop: 43970, Start Num: 3
Candidate Starts for Lev2_71:
(Start: 3 @44266 has 10 MA's), (5, 44245), (14, 44086),

Gene: LittleCherry_69 Start: 43824, Stop: 43522, Start Num: 2
Candidate Starts for LittleCherry_69:
(Start: 2 @43824 has 3 MA's), (5, 43797), (6, 43791), (14, 43638),

Gene: LunaBlu_43 Start: 32418, Stop: 32182, Start Num: 4
Candidate Starts for LunaBlu_43:
(Start: 4 @32418 has 6 MA's), (7, 32373), (8, 32370), (11, 32301), (13, 32250),

Gene: Melissauren88_39 Start: 31545, Stop: 31309, Start Num: 4
Candidate Starts for Melissauren88_39:
(Start: 4 @31545 has 6 MA's), (7, 31500), (8, 31497), (11, 31428), (13, 31377),

Gene: Michley_77 Start: 46813, Stop: 46514, Start Num: 4
Candidate Starts for Michley_77:
(1, 46873), (Start: 4 @46813 has 6 MA's), (7, 46768), (8, 46765), (11, 46696), (13, 46645),

Gene: Phlorence_69 Start: 44013, Stop: 43717, Start Num: 3
Candidate Starts for Phlorence_69:
(Start: 3 @44013 has 10 MA's), (5, 43992),

Gene: PickleBack_71 Start: 44188, Stop: 43892, Start Num: 3
Candidate Starts for PickleBack_71:
(Start: 3 @44188 has 10 MA's), (5, 44167), (14, 44008),

Gene: Smeagol_79 Start: 49291, Stop: 48989, Start Num: 4
Candidate Starts for Smeagol_79:
(Start: 4 @49291 has 6 MA's), (8, 49243), (9, 49231), (10, 49228), (12, 49144), (13, 49120),

Gene: Swirley_70 Start: 44157, Stop: 43861, Start Num: 3
Candidate Starts for Swirley_70:
(Start: 3 @44157 has 10 MA's), (5, 44136), (6, 44130), (14, 43977),

Gene: Tarynearal_69 Start: 43993, Stop: 43697, Start Num: 3

Candidate Starts for Tarynearal_69:

(Start: 3 @43993 has 10 MA's), (5, 43972), (6, 43966), (10, 43936), (14, 43813),