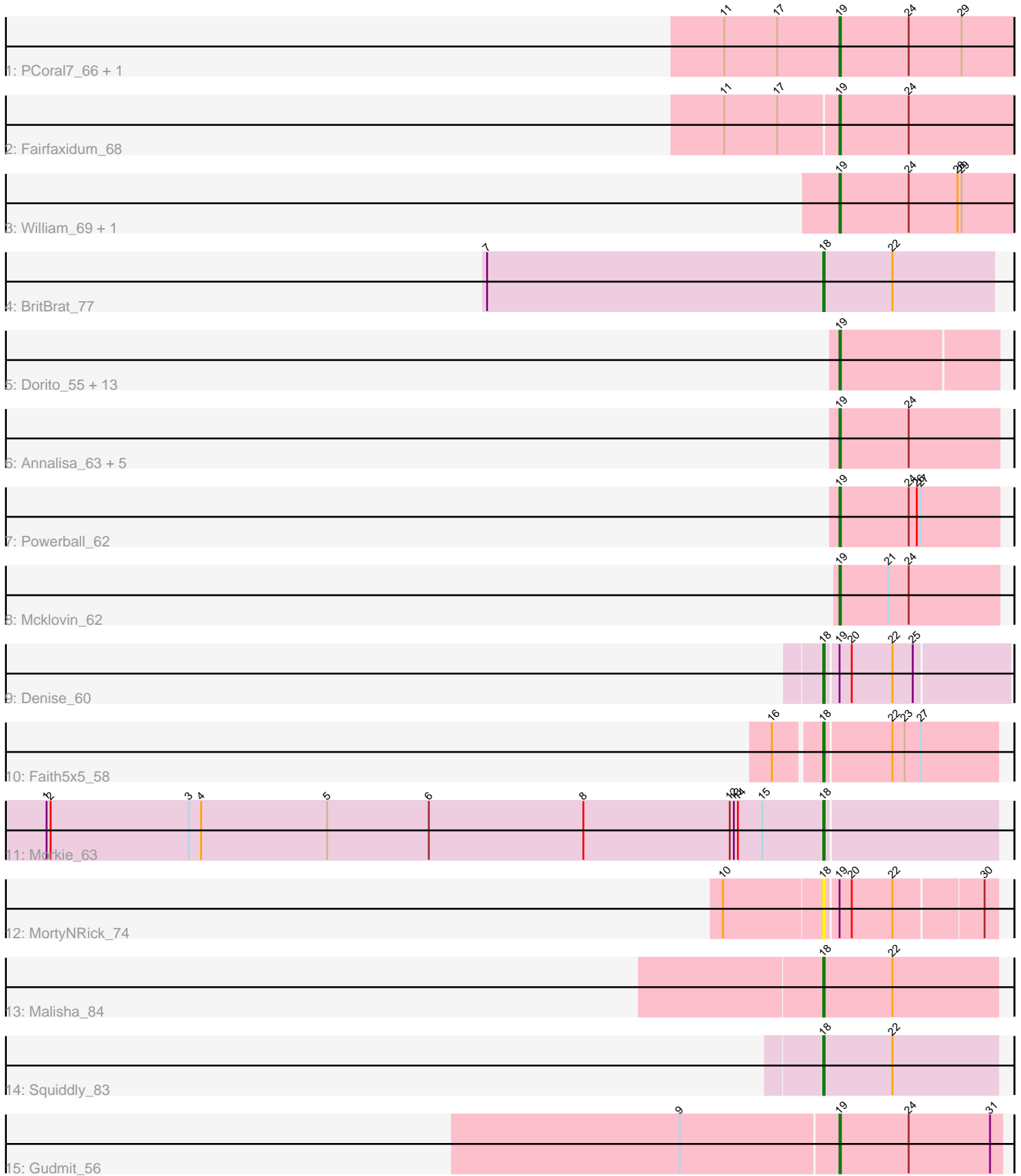


Pham 163787



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 163787 Report

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

Pham number 163787 has 35 members, 4 are drafts.

Phages represented in each track:

- Track 1 : PCoral7_66, Toast_66
- Track 2 : Fairfaxidum_68
- Track 3 : William_69, PrincePatrick_67
- Track 4 : BritBrat_77
- Track 5 : Dorito_55, Twinkle_63, Howe_64, Dolores_62, Sekhmet_61, Thimann_64, PhriskyACE_61, Easley_59, WinkNick_62, Adora_61, MichaelScott_65, Hortense_64, Oregano_64, Shlim410_62
- Track 6 : Annalisa_63, Beenie_58, DobbysSock_58, Suerte_57, Samman98_64, Clark_63
- Track 7 : Powerball_62
- Track 8 : Mcklovin_62
- Track 9 : Denise_60
- Track 10 : Faith5x5_58
- Track 11 : Morkie_63
- Track 12 : MortyNRick_74
- Track 13 : Malisha_84
- Track 14 : Squiddly_83
- Track 15 : Gudmit_56

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

The start number called the most often in the published annotations is 19, it was called in 25 of the 31 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adora_61, Annalisa_63, Beenie_58, Clark_63, DobbysSock_58, Dolores_62, Dorito_55, Easley_59, Fairfaxidum_68, Gudmit_56, Hortense_64, Howe_64, Mcklovin_62, MichaelScott_65, Oregano_64, PCoral7_66, PhriskyACE_61, Powerball_62, PrincePatrick_67, Samman98_64, Sekhmet_61, Shlim410_62, Suerte_57, Thimann_64, Toast_66, Twinkle_63, William_69, WinkNick_62,

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

- Denise_60, MortyNRick_74,

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

- BritBrat_77, Faith5x5_58, Malisha_84, Morkie_63, Squiddly_83,

Summary by start number:

Start 18:

- Found in 7 of 35 (20.0%) of genes in pham
- Manual Annotations of this start: 6 of 31
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BritBrat_77 (CY2), Denise_60 (CZ5), Faith5x5_58 (CZ6), Malisha_84 (DN), Morkie_63 (DH), MortyNRick_74 (DN), Squiddly_83 (DN2),

Start 19:

- Found in 30 of 35 (85.7%) of genes in pham
- Manual Annotations of this start: 25 of 31
- Called 93.3% of time when present
- Phage (with cluster) where this start called: Adora_61 (CZ4), Annalisa_63 (CZ4), Beenie_58 (CZ4), Clark_63 (CZ4), DobbysSock_58 (CZ4), Dolores_62 (CZ4), Dorito_55 (CZ4), Easley_59 (CZ4), Fairfaxidum_68 (CV), Gudmit_56 (singleton), Hortense_64 (CZ4), Howe_64 (CZ4), Mcklovin_62 (CZ4), MichaelScott_65 (CZ4), Oregano_64 (CZ4), PCoral7_66 (CV), PhriskyACE_61 (CZ4), Powerball_62 (CZ4), PrincePatrick_67 (CV), Samman98_64 (CZ4), Sekhmet_61 (CZ4), Shlim410_62 (CZ4), Suerte_57 (CZ4), Thimann_64 (CZ4), Toast_66 (CV), Twinkle_63 (CZ4), William_69 (CV), WinkNick_62 (CZ4),

Summary by clusters:

There are 9 clusters represented in this pham: DN, CY2, singleton, DH, CZ6, CZ4, CZ5, DN2, CV,

Info for manual annotations of cluster CV:

- Start number 19 was manually annotated 4 times for cluster CV.

Info for manual annotations of cluster CY2:

- Start number 18 was manually annotated 1 time for cluster CY2.

Info for manual annotations of cluster CZ4:

- Start number 19 was manually annotated 20 times for cluster CZ4.

Info for manual annotations of cluster CZ5:

- Start number 18 was manually annotated 1 time for cluster CZ5.

Info for manual annotations of cluster CZ6:

- Start number 18 was manually annotated 1 time for cluster CZ6.

Info for manual annotations of cluster DH:

- Start number 18 was manually annotated 1 time for cluster DH.

Info for manual annotations of cluster DN:

- Start number 18 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster DN2:

- Start number 18 was manually annotated 1 time for cluster DN2.

Gene Information:

Gene: Adora_61 Start: 43146, Stop: 43259, Start Num: 19

Candidate Starts for Adora_61:

(Start: 19 @43146 has 25 MA's),

Gene: Annalisa_63 Start: 40463, Stop: 40579, Start Num: 19

Candidate Starts for Annalisa_63:

(Start: 19 @40463 has 25 MA's), (24, 40514),

Gene: Beenie_58 Start: 41191, Stop: 41307, Start Num: 19

Candidate Starts for Beenie_58:

(Start: 19 @41191 has 25 MA's), (24, 41242),

Gene: BritBrat_77 Start: 48245, Stop: 48370, Start Num: 18

Candidate Starts for BritBrat_77:

(7, 47999), (Start: 18 @48245 has 6 MA's), (22, 48296),

Gene: Clark_63 Start: 40954, Stop: 41070, Start Num: 19

Candidate Starts for Clark_63:

(Start: 19 @40954 has 25 MA's), (24, 41005),

Gene: Denise_60 Start: 37655, Stop: 37786, Start Num: 18

Candidate Starts for Denise_60:

(Start: 18 @37655 has 6 MA's), (Start: 19 @37664 has 25 MA's), (20, 37673), (22, 37703), (25, 37718),

Gene: DobbysSock_58 Start: 40602, Stop: 40718, Start Num: 19

Candidate Starts for DobbysSock_58:

(Start: 19 @40602 has 25 MA's), (24, 40653),

Gene: Dolores_62 Start: 40290, Stop: 40403, Start Num: 19

Candidate Starts for Dolores_62:

(Start: 19 @40290 has 25 MA's),

Gene: Dorito_55 Start: 38107, Stop: 38220, Start Num: 19

Candidate Starts for Dorito_55:

(Start: 19 @38107 has 25 MA's),

Gene: Easley_59 Start: 39801, Stop: 39899, Start Num: 19

Candidate Starts for Easley_59:

(Start: 19 @39801 has 25 MA's),

Gene: Fairfaxidum_68 Start: 43559, Stop: 43687, Start Num: 19

Candidate Starts for Fairfaxidum_68:

(11, 43478), (17, 43517), (Start: 19 @43559 has 25 MA's), (24, 43610),

Gene: Faith5x5_58 Start: 36024, Stop: 36149, Start Num: 18

Candidate Starts for Faith5x5_58:

(16, 35991), (Start: 18 @36024 has 6 MA's), (22, 36072), (23, 36081), (27, 36093),

Gene: Gudmit_56 Start: 33859, Stop: 33978, Start Num: 19

Candidate Starts for Gudmit_56:

(9, 33745), (Start: 19 @33859 has 25 MA's), (24, 33910), (31, 33970),

Gene: Hortense_64 Start: 44501, Stop: 44614, Start Num: 19

Candidate Starts for Hortense_64:

(Start: 19 @44501 has 25 MA's),

Gene: Howe_64 Start: 44501, Stop: 44614, Start Num: 19

Candidate Starts for Howe_64:

(Start: 19 @44501 has 25 MA's),

Gene: Malisha_84 Start: 50153, Stop: 50281, Start Num: 18

Candidate Starts for Malisha_84:

(Start: 18 @50153 has 6 MA's), (22, 50204),

Gene: Mcklovin_62 Start: 46828, Stop: 46944, Start Num: 19

Candidate Starts for Mcklovin_62:

(Start: 19 @46828 has 25 MA's), (21, 46864), (24, 46879),

Gene: MichaelScott_65 Start: 42221, Stop: 42334, Start Num: 19

Candidate Starts for MichaelScott_65:

(Start: 19 @42221 has 25 MA's),

Gene: Morkie_63 Start: 37576, Stop: 37701, Start Num: 18

Candidate Starts for Morkie_63:

(1, 37003), (2, 37006), (3, 37108), (4, 37117), (5, 37210), (6, 37285), (8, 37399), (12, 37507), (13, 37510), (14, 37513), (15, 37531), (Start: 18 @37576 has 6 MA's),

Gene: MortyNRick_74 Start: 45894, Stop: 46013, Start Num: 18

Candidate Starts for MortyNRick_74:

(10, 45822), (Start: 18 @45894 has 6 MA's), (Start: 19 @45903 has 25 MA's), (20, 45912), (22, 45942), (30, 46005),

Gene: Oregano_64 Start: 41095, Stop: 41208, Start Num: 19

Candidate Starts for Oregano_64:

(Start: 19 @41095 has 25 MA's),

Gene: PCoral7_66 Start: 42700, Stop: 42828, Start Num: 19

Candidate Starts for PCoral7_66:

(11, 42616), (17, 42655), (Start: 19 @42700 has 25 MA's), (24, 42751), (29, 42790),

Gene: PhriskyACE_61 Start: 41112, Stop: 41225, Start Num: 19

Candidate Starts for PhriskyACE_61:

(Start: 19 @41112 has 25 MA's),

Gene: Powerball_62 Start: 41218, Stop: 41334, Start Num: 19

Candidate Starts for Powerball_62:

(Start: 19 @41218 has 25 MA's), (24, 41269), (26, 41275), (27, 41278),

Gene: PrincePatrick_67 Start: 41750, Stop: 41878, Start Num: 19

Candidate Starts for PrincePatrick_67:
(Start: 19 @41750 has 25 MA's), (24, 41801), (28, 41837), (29, 41840),

Gene: Samman98_64 Start: 41057, Stop: 41173, Start Num: 19
Candidate Starts for Samman98_64:
(Start: 19 @41057 has 25 MA's), (24, 41108),

Gene: Sekhmet_61 Start: 40689, Stop: 40802, Start Num: 19
Candidate Starts for Sekhmet_61:
(Start: 19 @40689 has 25 MA's),

Gene: Shlim410_62 Start: 44501, Stop: 44614, Start Num: 19
Candidate Starts for Shlim410_62:
(Start: 19 @44501 has 25 MA's),

Gene: Squiddly_83 Start: 49948, Stop: 50076, Start Num: 18
Candidate Starts for Squiddly_83:
(Start: 18 @49948 has 6 MA's), (22, 49999),

Gene: Suerte_57 Start: 40021, Stop: 40137, Start Num: 19
Candidate Starts for Suerte_57:
(Start: 19 @40021 has 25 MA's), (24, 40072),

Gene: Thimann_64 Start: 41329, Stop: 41442, Start Num: 19
Candidate Starts for Thimann_64:
(Start: 19 @41329 has 25 MA's),

Gene: Toast_66 Start: 42700, Stop: 42828, Start Num: 19
Candidate Starts for Toast_66:
(11, 42616), (17, 42655), (Start: 19 @42700 has 25 MA's), (24, 42751), (29, 42790),

Gene: Twinkle_63 Start: 45560, Stop: 45673, Start Num: 19
Candidate Starts for Twinkle_63:
(Start: 19 @45560 has 25 MA's),

Gene: William_69 Start: 44098, Stop: 44226, Start Num: 19
Candidate Starts for William_69:
(Start: 19 @44098 has 25 MA's), (24, 44149), (28, 44185), (29, 44188),

Gene: WinkNick_62 Start: 40213, Stop: 40326, Start Num: 19
Candidate Starts for WinkNick_62:
(Start: 19 @40213 has 25 MA's),