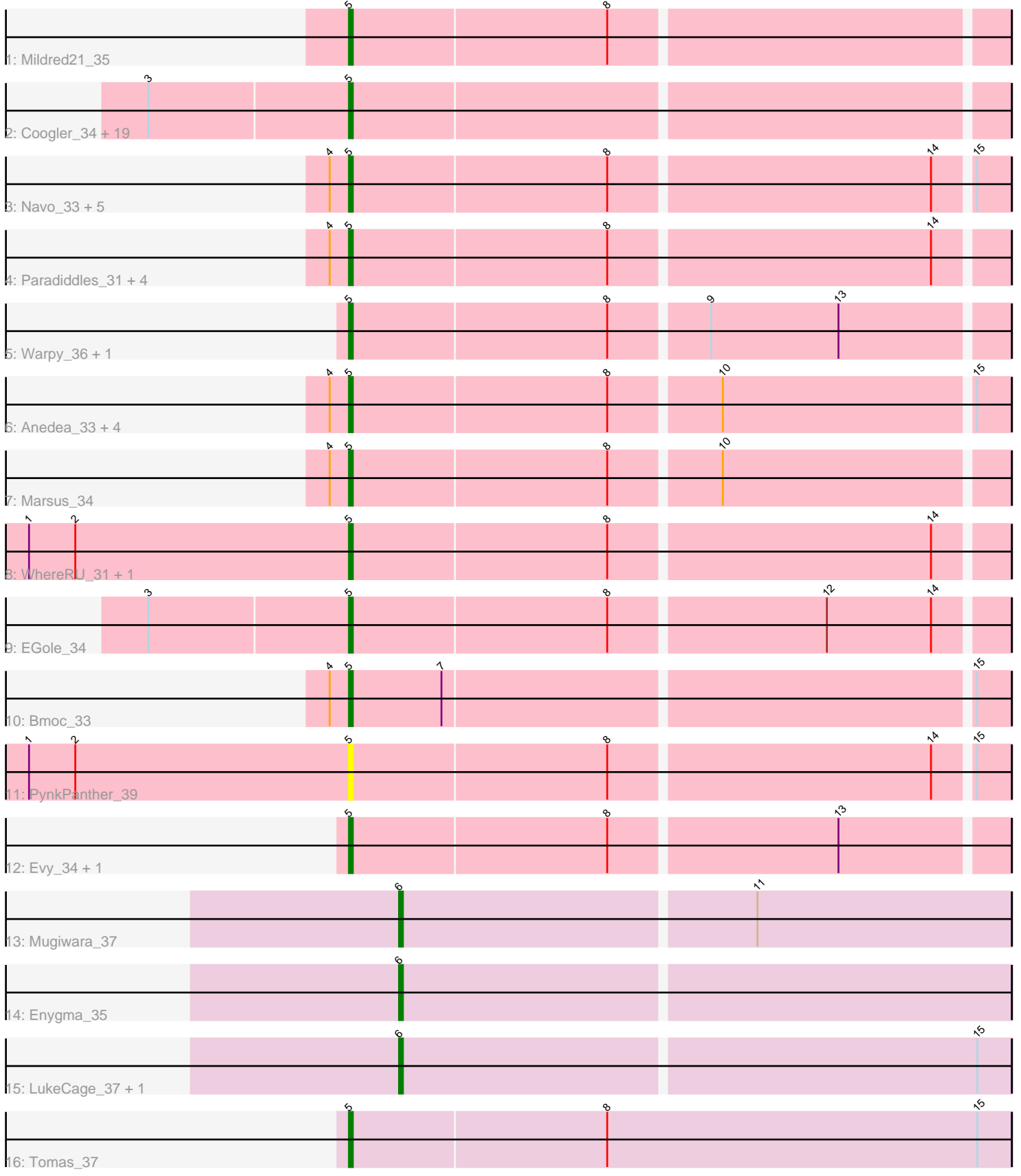


Pham 308741



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 308741 Report

This analysis was run 06/27/26 on database version 652.

Pham number 308741 has 52 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Mildred21_35
- Track 2 : Coogler_34, ArianaSWT_37, Cursive_32, Watermoore_34, Sushi23_34, Leo04_34, Lululemon_33, Pepperwood_34, Larnav_34, Cross_34, Teutsch_33, WashU_37, Tribute_32, Scheme_34, BlueOtter_34, PacManQ_33, Samisti12_33, HangryHippo_34, Shuckle_32, Peebs_33
- Track 3 : Navo_33, Squillium_34, Liandry_34, Eliot67_34, FreddyDRoo_34, PinkiePie_34
- Track 4 : Paradiddles_31, Braelyn_34, Persimmon_31, Bartholomune_34, NootNoot_31
- Track 5 : Warpy_36, Jay2Jay_36
- Track 6 : Anedea_33, Riptide_33, LilMartin_34, MulchMansion_34, Angela_34
- Track 7 : Marsus_34
- Track 8 : WhereRU_31, Davielle_31
- Track 9 : EGole_34
- Track 10 : Bmoc_33
- Track 11 : PynkPanther_39
- Track 12 : Evy_34, Targaryen_33
- Track 13 : Mugiwara_37
- Track 14 : Enygma_35
- Track 15 : LukeCage_37, StarPlatinum_36
- Track 16 : Tomas_37

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

The start number called the most often in the published annotations is 5, it was called in 43 of the 47 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Anedea_33, Angela_34, ArianaSWT_37, Bartholomune_34, BlueOtter_34, Bmoc_33, Braelyn_34, Coogler_34, Cross_34, Cursive_32, Davielle_31, EGole_34, Eliot67_34, Evy_34, FreddyDRoo_34, HangryHippo_34, Jay2Jay_36, Larnav_34, Leo04_34, Liandry_34, LilMartin_34, Lululemon_33, Marsus_34, Mildred21_35, MulchMansion_34, Navo_33, NootNoot_31, PacManQ_33, Paradiddles_31, Peebs_33, Pepperwood_34, Persimmon_31, PinkiePie_34, PynkPanther_39,

Riptide_33, Samisti12_33, Scheme_34, Shuckle_32, Squillium_34, Sushi23_34, Targaryen_33, Teutsch_33, Tomas_37, Tribute_32, Warpy_36, WashU_37, Watermoore_34, WhereRU_31,

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

-

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

- Enygma_35, LukeCage_37, Mugiwara_37, StarPlatinum_36,

Summary by start number:

Start 5:

- Found in 48 of 52 (92.3%) of genes in pham
- Manual Annotations of this start: 43 of 47
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anedea_33 (BE1), Angela_34 (BE1), ArianaSWT_37 (BE1), Bartholomune_34 (BE1), BlueOtter_34 (BE1), Bmoc_33 (BE1), Braelyn_34 (BE1), Coogler_34 (BE1), Cross_34 (BE1), Cursive_32 (BE1), Davielle_31 (BE1), EGole_34 (BE1), Eliot67_34 (BE1), Evy_34 (BE1), FreddyDRoo_34 (BE1), HangryHippo_34 (BE1), Jay2Jay_36 (BE1), Larnav_34 (BE1), Leo04_34 (BE1), Liandry_34 (BE1), LilMartin_34 (BE1), Lululemon_33 (BE1), Marsus_34 (BE1), Mildred21_35 (BE1), MulchMansion_34 (BE1), Navo_33 (BE1), NootNoot_31 (BE1), PacManQ_33 (BE1), Paradiddles_31 (BE1), Peebs_33 (BE1), Pepperwood_34 (BE1), Persimmon_31 (BE1), PinkiePie_34 (BE1), PynkPanther_39 (BE1), Riptide_33 (BE1), Samisti12_33 (BE1), Scheme_34 (BE1), Shuckle_32 (BE1), Squillium_34 (BE1), Sushi23_34 (BE1), Targaryen_33 (BE1), Teutsch_33 (BE1), Tomas_37 (BE2), Tribute_32 (BE1), Warpy_36 (BE1), WashU_37 (BE1), Watermoore_34 (BE1), WhereRU_31 (BE1),

Start 6:

- Found in 4 of 52 (7.7%) of genes in pham
- Manual Annotations of this start: 4 of 47
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Enygma_35 (BE2), LukeCage_37 (BE2), Mugiwara_37 (BE2), StarPlatinum_36 (BE2),

Summary by clusters:

There are 2 clusters represented in this pham: BE2, BE1,

Info for manual annotations of cluster BE1:

- Start number 5 was manually annotated 42 times for cluster BE1.

Info for manual annotations of cluster BE2:

- Start number 5 was manually annotated 1 time for cluster BE2.
- Start number 6 was manually annotated 4 times for cluster BE2.

Gene Information:

Gene: Anedea_33 Start: 15373, Stop: 15209, Start Num: 5

Candidate Starts for Anedea_33:

(4, 15376), (Start: 5 @15373 has 43 MA's), (8, 15307), (10, 15280), (15, 15217),

Gene: Angela_34 Start: 15408, Stop: 15244, Start Num: 5

Candidate Starts for Angela_34:

(4, 15411), (Start: 5 @15408 has 43 MA's), (8, 15342), (10, 15315), (15, 15252),

Gene: ArianaSWT_37 Start: 15062, Stop: 14898, Start Num: 5

Candidate Starts for ArianaSWT_37:

(3, 15113), (Start: 5 @15062 has 43 MA's),

Gene: Bartholomune_34 Start: 15153, Stop: 14989, Start Num: 5

Candidate Starts for Bartholomune_34:

(4, 15156), (Start: 5 @15153 has 43 MA's), (8, 15087), (14, 15006),

Gene: BlueOtter_34 Start: 15104, Stop: 14940, Start Num: 5

Candidate Starts for BlueOtter_34:

(3, 15155), (Start: 5 @15104 has 43 MA's),

Gene: Bmoc_33 Start: 15541, Stop: 15377, Start Num: 5

Candidate Starts for Bmoc_33:

(4, 15544), (Start: 5 @15541 has 43 MA's), (7, 15517), (15, 15385),

Gene: Braelyn_34 Start: 15548, Stop: 15384, Start Num: 5

Candidate Starts for Braelyn_34:

(4, 15551), (Start: 5 @15548 has 43 MA's), (8, 15482), (14, 15401),

Gene: Coogler_34 Start: 15093, Stop: 14929, Start Num: 5

Candidate Starts for Coogler_34:

(3, 15144), (Start: 5 @15093 has 43 MA's),

Gene: Cross_34 Start: 15105, Stop: 14941, Start Num: 5

Candidate Starts for Cross_34:

(3, 15156), (Start: 5 @15105 has 43 MA's),

Gene: Cursive_32 Start: 13922, Stop: 13758, Start Num: 5

Candidate Starts for Cursive_32:

(3, 13973), (Start: 5 @13922 has 43 MA's),

Gene: Davielle_31 Start: 14382, Stop: 14218, Start Num: 5

Candidate Starts for Davielle_31:

(1, 14463), (2, 14451), (Start: 5 @14382 has 43 MA's), (8, 14316), (14, 14235),

Gene: EGole_34 Start: 15966, Stop: 15802, Start Num: 5

Candidate Starts for EGole_34:

(3, 16017), (Start: 5 @15966 has 43 MA's), (8, 15900), (12, 15846), (14, 15819),

Gene: Eliot67_34 Start: 15153, Stop: 14989, Start Num: 5

Candidate Starts for Eliot67_34:

(4, 15156), (Start: 5 @15153 has 43 MA's), (8, 15087), (14, 15006), (15, 14997),

Gene: Enygma_35 Start: 15658, Stop: 15503, Start Num: 6

Candidate Starts for Enygma_35:

(Start: 6 @15658 has 4 MA's),

Gene: Evy_34 Start: 14957, Stop: 14793, Start Num: 5

Candidate Starts for Evy_34:

(Start: 5 @14957 has 43 MA's), (8, 14891), (13, 14834),

Gene: FreddyDRoo_34 Start: 15153, Stop: 14989, Start Num: 5

Candidate Starts for FreddyDRoo_34:

(4, 15156), (Start: 5 @15153 has 43 MA's), (8, 15087), (14, 15006), (15, 14997),

Gene: HangryHippo_34 Start: 15104, Stop: 14940, Start Num: 5

Candidate Starts for HangryHippo_34:

(3, 15155), (Start: 5 @15104 has 43 MA's),

Gene: Jay2Jay_36 Start: 15147, Stop: 14983, Start Num: 5

Candidate Starts for Jay2Jay_36:

(Start: 5 @15147 has 43 MA's), (8, 15081), (9, 15057), (13, 15024),

Gene: Larnav_34 Start: 15052, Stop: 14888, Start Num: 5

Candidate Starts for Larnav_34:

(3, 15103), (Start: 5 @15052 has 43 MA's),

Gene: Leo04_34 Start: 15103, Stop: 14939, Start Num: 5

Candidate Starts for Leo04_34:

(3, 15154), (Start: 5 @15103 has 43 MA's),

Gene: Liandry_34 Start: 15152, Stop: 14988, Start Num: 5

Candidate Starts for Liandry_34:

(4, 15155), (Start: 5 @15152 has 43 MA's), (8, 15086), (14, 15005), (15, 14996),

Gene: LilMartin_34 Start: 15355, Stop: 15191, Start Num: 5

Candidate Starts for LilMartin_34:

(4, 15358), (Start: 5 @15355 has 43 MA's), (8, 15289), (10, 15262), (15, 15199),

Gene: LukeCage_37 Start: 16225, Stop: 16070, Start Num: 6

Candidate Starts for LukeCage_37:

(Start: 6 @16225 has 4 MA's), (15, 16078),

Gene: Lululemon_33 Start: 14484, Stop: 14320, Start Num: 5

Candidate Starts for Lululemon_33:

(3, 14535), (Start: 5 @14484 has 43 MA's),

Gene: Marsus_34 Start: 15232, Stop: 15068, Start Num: 5

Candidate Starts for Marsus_34:

(4, 15235), (Start: 5 @15232 has 43 MA's), (8, 15166), (10, 15139),

Gene: Mildred21_35 Start: 15462, Stop: 15298, Start Num: 5

Candidate Starts for Mildred21_35:

(Start: 5 @15462 has 43 MA's), (8, 15396),

Gene: Mugiwara_37 Start: 16141, Stop: 15986, Start Num: 6

Candidate Starts for Mugiwara_37:

(Start: 6 @16141 has 4 MA's), (11, 16051),

Gene: MulchMansion_34 Start: 15356, Stop: 15192, Start Num: 5
Candidate Starts for MulchMansion_34:
(4, 15359), (Start: 5 @15356 has 43 MA's), (8, 15290), (10, 15263), (15, 15200),

Gene: Navo_33 Start: 15311, Stop: 15147, Start Num: 5
Candidate Starts for Navo_33:
(4, 15314), (Start: 5 @15311 has 43 MA's), (8, 15245), (14, 15164), (15, 15155),

Gene: NootNoot_31 Start: 14334, Stop: 14170, Start Num: 5
Candidate Starts for NootNoot_31:
(4, 14337), (Start: 5 @14334 has 43 MA's), (8, 14268), (14, 14187),

Gene: PacManQ_33 Start: 14484, Stop: 14320, Start Num: 5
Candidate Starts for PacManQ_33:
(3, 14535), (Start: 5 @14484 has 43 MA's),

Gene: Paradiddles_31 Start: 14325, Stop: 14161, Start Num: 5
Candidate Starts for Paradiddles_31:
(4, 14328), (Start: 5 @14325 has 43 MA's), (8, 14259), (14, 14178),

Gene: Peebs_33 Start: 14803, Stop: 14639, Start Num: 5
Candidate Starts for Peebs_33:
(3, 14854), (Start: 5 @14803 has 43 MA's),

Gene: Pepperwood_34 Start: 14976, Stop: 14812, Start Num: 5
Candidate Starts for Pepperwood_34:
(3, 15027), (Start: 5 @14976 has 43 MA's),

Gene: Persimmon_31 Start: 14382, Stop: 14218, Start Num: 5
Candidate Starts for Persimmon_31:
(4, 14385), (Start: 5 @14382 has 43 MA's), (8, 14316), (14, 14235),

Gene: PinkiePie_34 Start: 15153, Stop: 14989, Start Num: 5
Candidate Starts for PinkiePie_34:
(4, 15156), (Start: 5 @15153 has 43 MA's), (8, 15087), (14, 15006), (15, 14997),

Gene: PynkPanther_39 Start: 14909, Stop: 14745, Start Num: 5
Candidate Starts for PynkPanther_39:
(1, 14990), (2, 14978), (Start: 5 @14909 has 43 MA's), (8, 14843), (14, 14762), (15, 14753),

Gene: Riptide_33 Start: 15099, Stop: 14935, Start Num: 5
Candidate Starts for Riptide_33:
(4, 15102), (Start: 5 @15099 has 43 MA's), (8, 15033), (10, 15006), (15, 14943),

Gene: Samisti12_33 Start: 15573, Stop: 15409, Start Num: 5
Candidate Starts for Samisti12_33:
(3, 15624), (Start: 5 @15573 has 43 MA's),

Gene: Scheme_34 Start: 14987, Stop: 14823, Start Num: 5
Candidate Starts for Scheme_34:
(3, 15038), (Start: 5 @14987 has 43 MA's),

Gene: Shuckle_32 Start: 15256, Stop: 15092, Start Num: 5
Candidate Starts for Shuckle_32:
(3, 15307), (Start: 5 @15256 has 43 MA's),

Gene: Squillium_34 Start: 15152, Stop: 14988, Start Num: 5
Candidate Starts for Squillium_34:
(4, 15155), (Start: 5 @15152 has 43 MA's), (8, 15086), (14, 15005), (15, 14996),

Gene: StarPlatinum_36 Start: 16145, Stop: 15990, Start Num: 6
Candidate Starts for StarPlatinum_36:
(Start: 6 @16145 has 4 MA's), (15, 15998),

Gene: Sushi23_34 Start: 15199, Stop: 15035, Start Num: 5
Candidate Starts for Sushi23_34:
(3, 15250), (Start: 5 @15199 has 43 MA's),

Gene: Targaryen_33 Start: 15704, Stop: 15540, Start Num: 5
Candidate Starts for Targaryen_33:
(Start: 5 @15704 has 43 MA's), (8, 15638), (13, 15581),

Gene: Teutsch_33 Start: 14892, Stop: 14728, Start Num: 5
Candidate Starts for Teutsch_33:
(3, 14943), (Start: 5 @14892 has 43 MA's),

Gene: Tomas_37 Start: 16615, Stop: 16445, Start Num: 5
Candidate Starts for Tomas_37:
(Start: 5 @16615 has 43 MA's), (8, 16549), (15, 16453),

Gene: Tribute_32 Start: 14670, Stop: 14506, Start Num: 5
Candidate Starts for Tribute_32:
(3, 14721), (Start: 5 @14670 has 43 MA's),

Gene: Warpy_36 Start: 15167, Stop: 15003, Start Num: 5
Candidate Starts for Warpy_36:
(Start: 5 @15167 has 43 MA's), (8, 15101), (9, 15077), (13, 15044),

Gene: WashU_37 Start: 14977, Stop: 14813, Start Num: 5
Candidate Starts for WashU_37:
(3, 15028), (Start: 5 @14977 has 43 MA's),

Gene: Watermoore_34 Start: 15105, Stop: 14941, Start Num: 5
Candidate Starts for Watermoore_34:
(3, 15156), (Start: 5 @15105 has 43 MA's),

Gene: WhereRU_31 Start: 14382, Stop: 14218, Start Num: 5
Candidate Starts for WhereRU_31:
(1, 14463), (2, 14451), (Start: 5 @14382 has 43 MA's), (8, 14316), (14, 14235),