Pham 159202


1: Larnav_38
2: Mildred21_34
3: Paradiddles_30 + 4
4: Anedea_33
5: BlueOtter_35 + 6
6: Sushi23_33 + 2
7: MulchMansion_33 + 2
8: Daubenski_35
9: Liandry_33 + 3
10: EGole_33
11: Bmoc_32
12: Pepperwood_33
13: Tribute_31
14: PacManQ_35
15: NootNoot_30
16: Peebs_32
17: Wipeout_34 + 19
18: Stanimal_36 + 4
19: Mugiwara_37
20: Wofford_33 + 1
21: LukeCage_35

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 159202 Report

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

Pham number 159202 has 62 members, 13 are drafts.

Phages represented in each track:
• Track 1 : Larnav_38
• Track 2 : Mildred21_34
• Track 3 : Paradiddles_30, Braelyn_33, WhereRU_32, Persimmon_30, Bartholomune_33
• Track 4 : Anedea_33
• Track 5 : BlueOtter_35, Cursive_31, Watermoore_33, Leo04_33, Lululemon_35, Cross_33, HangryHippo_35
• Track 6 : Sushi23_33, Teutsch_32, Samisti12_32
• Track 7 : MulchMansion_33, LilMartin_33, Angela_33
• Track 8 : Daubenski_35
• Track 9 : Liandry_33, Squillium_33, Navo_34, PinkiePie_33
• Track 10 : EGole_33
• Track 11 : Bmoc_32
• Track 12 : Pepperwood_33
• Track 13 : Tribute_31
• Track 14 : PacManQ_35
• Track 15 : NootNoot_30
• Track 16 : Peebs_32
• Track 17 : Wipeout_34, Bordeaux_34, PumpkinSpice_35, MindFlayer_34, IchabodCrane_34, Enygma_33, Gibbi_38, Birchlyn_33, Battuta_34, CeilingFan_38, Spelly_36, TomSawyer_34, Spilled_36, Quaran19_36, Karimac_35, Amabiko_36, Jollison_39, JimJam_36, Starbow_34, SaltySpitoon_36
• Track 18 : Stanimal_36, Sollertia_36, BoomerJR_36, Yaboi_37, Genie2_36
• Track 19 : Mugiwara_37
• Track 20 : Wofford_33, Elmer_40
• Track 21 : LukeCage_35

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 48 of the 49 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Amabiko_36, Anedea_33, Angela_33, Bartholomune_33, Battuta_34, Birchlyn_33, BlueOtter_35, Bmoc_32, BoomerJR_36, Bordeaux_34, Braelyn_33, CeilingFan_38, Cross_33, Cursive_31, Daubenski_35, EGole_33, Elmer_40, Enygma_33, Genie2_36, Gibbi_38, HangryHippo_35, IchabodCrane_34, JimJam_36, Jollison_39, Karimac_35, Larnav_38, Leo04_33, Liandry_33, LilMartin_33, LukeCage_35, Lululemon_35, Mildred21_34, MindFlayer_34, MulchMansion_33, Navo_34, NootNoot_30, Paradiddles_30, Peebs_32, Pepperwood_33, Persimmon_30, PinkiePie_33, PumpkinSpice_35, Quaran19_36, SaltySpitoon_36, Samisti12_32, Sollertia_36, Spelly_36, Spilled_36, Squillium_33, Stanimal_36, Starbow_34, Sushi23_33, Teutsch_32, TomSawyer_34, Watermoore_33, WhereRU_32, Wipeout_34, Wofford_33, Yaboi_37,

Genes that have the "Most Annotated" start but do not call it:
• Mugiwara_37, PacManQ_35, Tribute_31,

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

Summary by start number:

Start 6:
• Found in 62 of 62 (100.0%) of genes in pham
• Manual Annotations of this start: 48 of 49
• Called 95.2% of time when present
• Phage (with cluster) where this start called: Amabiko_36 (BE2), Anedea_33 (BE1), Angela_33 (BE1), Bartholomune_33 (BE1), Battuta_34 (BE2), Birchlyn_33 (BE2), BlueOtter_35 (BE1), Bmoc_32 (BE1), BoomerJR_36 (BE2), Bordeaux_34 (BE2), Braelyn_33 (BE1), CeilingFan_38 (BE2), Cross_33 (BE1), Cursive_31 (BE1), Daubenski_35 (BE1), EGole_33 (BE1), Elmer_40 (BE2), Enygma_33 (BE2), Genie2_36 (BE2), Gibbi_38 (BE2), HangryHippo_35 (BE1), IchabodCrane_34 (BE2), JimJam_36 (BE2), Jollison_39 (BE2), Karimac_35 (BE2), Larnav_38 (BE1), Leo04_33 (BE1), Liandry_33 (BE1), LilMartin_33 (BE1), LukeCage_35 (BE2), Lululemon_35 (BE1), Mildred21_34 (BE1), MindFlayer_34 (BE2), MulchMansion_33 (BE1), Navo_34 (BE1), NootNoot_30 (BE1), Paradiddles_30 (BE1), Peebs_32 (BE1), Pepperwood_33 (BE1), Persimmon_30 (BE1), PinkiePie_33 (BE1), PumpkinSpice_35 (BE2), Quaran19_36 (BE2), SaltySpitoon_36 (BE2), Samisti12_32 (BE1), Sollertia_36 (BE2), Spelly_36 (BE2), Spilled_36 (BE2), Squillium_33 (BE1), Stanimal_36 (BE2), Starbow_34 (BE2), Sushi23_33 (BE1), Teutsch_32 (BE1), TomSawyer_34 (BE2), Watermoore_33 (BE1), WhereRU_32 (BE1), Wipeout_34 (BE2), Wofford_33 (BE2), Yaboi_37 (BE2),

Start 8:
• Found in 25 of 62 (40.3%) of genes in pham
• Manual Annotations of this start: 1 of 49
• Called 8.0% of time when present
• Phage (with cluster) where this start called: PacManQ_35 (BE1), Tribute_31 (BE1),

Start 10:
• Found in 30 of 62 (48.4%) of genes in pham
• No Manual Annotations of this start.
• Called 3.3% of time when present
• Phage (with cluster) where this start called: Mugiwara_37 (BE2),

Summary by clusters:

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

Info for manual annotations of cluster BE1:
•Start number 6 was manually annotated 24 times for cluster BE1.
•Start number 8 was manually annotated 1 time for cluster BE1.

Info for manual annotations of cluster BE2:
•Start number 6 was manually annotated 24 times for cluster BE2.

Gene Information:

Gene: Amabiko_36 Start: 16226, Stop: 16020, Start Num: 6
Candidate Starts for Amabiko_36:
(1, 16310), (Start: 6 @16226 has 48 MA's), (10, 16193), (19, 16034),

Gene: Anedea_33 Start: 15212, Stop: 15003, Start Num: 6
Candidate Starts for Anedea_33:
(Start: 6 @15212 has 48 MA's), (11, 15173), (12, 15161), (13, 15149),

Gene: Angela_33 Start: 15247, Stop: 15038, Start Num: 6
Candidate Starts for Angela_33:
(Start: 6 @15247 has 48 MA's), (12, 15196), (13, 15184), (14, 15172), (18, 15064),

Gene: Bartholomune_33 Start: 14992, Stop: 14789, Start Num: 6
Candidate Starts for Bartholomune_33:
(Start: 6 @14992 has 48 MA's), (7, 14974), (Start: 8 @14968 has 1 MA's), (12, 14947),

Gene: Battuta_34 Start: 16202, Stop: 15996, Start Num: 6
Candidate Starts for Battuta_34:
(1, 16286), (Start: 6 @16202 has 48 MA's), (10, 16169), (19, 16010),

Gene: Birchlyn_33 Start: 14083, Stop: 13877, Start Num: 6
Candidate Starts for Birchlyn_33:
(1, 14167), (Start: 6 @14083 has 48 MA's), (10, 14050), (19, 13891),

Gene: BlueOtter_35 Start: 14943, Stop: 14740, Start Num: 6
Candidate Starts for BlueOtter_35:
(Start: 6 @14943 has 48 MA's), (Start: 8 @14919 has 1 MA's), (15, 14847),

Gene: Bmoc_32 Start: 15380, Stop: 15177, Start Num: 6
Candidate Starts for Bmoc_32:
(Start: 6 @15380 has 48 MA's), (16, 15254),

Gene: BoomerJR_36 Start: 16035, Stop: 15829, Start Num: 6
Candidate Starts for BoomerJR_36:
(Start: 6 @16035 has 48 MA's), (10, 16002), (16, 15906), (19, 15843),

Gene: Bordeaux_34 Start: 16217, Stop: 16011, Start Num: 6
Candidate Starts for Bordeaux_34:

(1, 16301), (Start: 6 @16217 has 48 MA's), (10, 16184), (19, 16025),

Gene: Braelyn_33 Start: 15387, Stop: 15184, Start Num: 6
Candidate Starts for Braelyn_33:
(Start: 6 @15387 has 48 MA's), (7, 15369), (Start: 8 @15363 has 1 MA's), (12, 15342),

Gene: CeilingFan_38 Start: 15977, Stop: 15771, Start Num: 6
Candidate Starts for CeilingFan_38:
(1, 16061), (Start: 6 @15977 has 48 MA's), (10, 15944), (19, 15785),

Gene: Cross_33 Start: 14944, Stop: 14741, Start Num: 6
Candidate Starts for Cross_33:
(Start: 6 @14944 has 48 MA's), (Start: 8 @14920 has 1 MA's), (15, 14848),

Gene: Cursive_31 Start: 13761, Stop: 13558, Start Num: 6
Candidate Starts for Cursive_31:
(Start: 6 @13761 has 48 MA's), (Start: 8 @13737 has 1 MA's), (15, 13665),

Gene: Daubenski_35 Start: 15355, Stop: 15146, Start Num: 6
Candidate Starts for Daubenski_35:
(3, 15403), (Start: 6 @15355 has 48 MA's), (12, 15304), (15, 15253), (17, 15190),

Gene: EGole_33 Start: 15805, Stop: 15602, Start Num: 6
Candidate Starts for EGole_33:
(Start: 6 @15805 has 48 MA's), (9, 15778), (12, 15760), (16, 15679), (19, 15616),

Gene: Elmer_40 Start: 15504, Stop: 15298, Start Num: 6
Candidate Starts for Elmer_40:
(4, 15549), (5, 15540), (Start: 6 @15504 has 48 MA's), (10, 15471), (19, 15312),

Gene: Enygma_33 Start: 15348, Stop: 15142, Start Num: 6
Candidate Starts for Enygma_33:
(1, 15432), (Start: 6 @15348 has 48 MA's), (10, 15315), (19, 15156),

Gene: Genie2_36 Start: 16038, Stop: 15832, Start Num: 6
Candidate Starts for Genie2_36:
(Start: 6 @16038 has 48 MA's), (10, 16005), (16, 15909), (19, 15846),

Gene: Gibbi_38 Start: 15837, Stop: 15631, Start Num: 6
Candidate Starts for Gibbi_38:
(1, 15921), (Start: 6 @15837 has 48 MA's), (10, 15804), (19, 15645),

Gene: HangryHippo_35 Start: 14943, Stop: 14740, Start Num: 6
Candidate Starts for HangryHippo_35:
(Start: 6 @14943 has 48 MA's), (Start: 8 @14919 has 1 MA's), (15, 14847),

Gene: IchabodCrane_34 Start: 15929, Stop: 15723, Start Num: 6
Candidate Starts for IchabodCrane_34:
(1, 16013), (Start: 6 @15929 has 48 MA's), (10, 15896), (19, 15737),

Gene: JimJam_36 Start: 16165, Stop: 15959, Start Num: 6
Candidate Starts for JimJam_36:
(1, 16249), (Start: 6 @16165 has 48 MA's), (10, 16132), (19, 15973),

Gene: Jollison_39 Start: 16183, Stop: 15977, Start Num: 6
Candidate Starts for Jollison_39:
(1, 16267), (Start: 6 @16183 has 48 MA's), (10, 16150), (19, 15991),

Gene: Karimac_35 Start: 16332, Stop: 16126, Start Num: 6
Candidate Starts for Karimac_35:
(1, 16416), (Start: 6 @16332 has 48 MA's), (10, 16299), (19, 16140),

Gene: Larnav_38 Start: 14891, Stop: 14688, Start Num: 6
Candidate Starts for Larnav_38:
(Start: 6 @14891 has 48 MA's), (Start: 8 @14867 has 1 MA's), (15, 14795),

Gene: Leo04_33 Start: 14942, Stop: 14739, Start Num: 6
Candidate Starts for Leo04_33:
(Start: 6 @14942 has 48 MA's), (Start: 8 @14918 has 1 MA's), (15, 14846),

Gene: Liandry_33 Start: 14991, Stop: 14788, Start Num: 6
Candidate Starts for Liandry_33:
(Start: 6 @14991 has 48 MA's), (7, 14973), (Start: 8 @14967 has 1 MA's), (12, 14946), (18, 14814),

Gene: LilMartin_33 Start: 15194, Stop: 14985, Start Num: 6
Candidate Starts for LilMartin_33:
(Start: 6 @15194 has 48 MA's), (12, 15143), (13, 15131), (14, 15119), (18, 15011),

Gene: LukeCage_35 Start: 15915, Stop: 15709, Start Num: 6
Candidate Starts for LukeCage_35:
(1, 15999), (Start: 6 @15915 has 48 MA's), (10, 15882), (19, 15723),

Gene: Lululemon_35 Start: 14323, Stop: 14120, Start Num: 6
Candidate Starts for Lululemon_35:
(Start: 6 @14323 has 48 MA's), (Start: 8 @14299 has 1 MA's), (15, 14227),

Gene: Mildred21_34 Start: 15301, Stop: 15098, Start Num: 6
Candidate Starts for Mildred21_34:
(Start: 6 @15301 has 48 MA's), (10, 15271),

Gene: MindFlayer_34 Start: 15836, Stop: 15630, Start Num: 6
Candidate Starts for MindFlayer_34:
(1, 15920), (Start: 6 @15836 has 48 MA's), (10, 15803), (19, 15644),

Gene: Mugiwara_37 Start: 15798, Stop: 15625, Start Num: 10
Candidate Starts for Mugiwara_37:
(1, 15915), (2, 15888), (Start: 6 @15831 has 48 MA's), (10, 15798), (19, 15639),

Gene: MulchMansion_33 Start: 15195, Stop: 14986, Start Num: 6
Candidate Starts for MulchMansion_33:
(Start: 6 @15195 has 48 MA's), (12, 15144), (13, 15132), (14, 15120), (18, 15012),

Gene: Navo_34 Start: 15150, Stop: 14947, Start Num: 6
Candidate Starts for Navo_34:
(Start: 6 @15150 has 48 MA's), (7, 15132), (Start: 8 @15126 has 1 MA's), (12, 15105), (18, 14973),

Gene: NootNoot_30 Start: 14173, Stop: 13970, Start Num: 6
Candidate Starts for NootNoot_30:
(Start: 6 @14173 has 48 MA's), (7, 14155), (Start: 8 @14149 has 1 MA's), (12, 14128), (18, 13996),

Gene: PacManQ_35 Start: 14299, Stop: 14120, Start Num: 8
Candidate Starts for PacManQ_35:
(Start: 6 @14323 has 48 MA's), (Start: 8 @14299 has 1 MA's), (15, 14227),

Gene: Paradiddles_30 Start: 14164, Stop: 13961, Start Num: 6
Candidate Starts for Paradiddles_30:
(Start: 6 @14164 has 48 MA's), (7, 14146), (Start: 8 @14140 has 1 MA's), (12, 14119),

Gene: Peebs_32 Start: 14642, Stop: 14439, Start Num: 6
Candidate Starts for Peebs_32:
(Start: 6 @14642 has 48 MA's), (Start: 8 @14618 has 1 MA's), (15, 14546),

Gene: Pepperwood_33 Start: 14815, Stop: 14612, Start Num: 6
Candidate Starts for Pepperwood_33:
(Start: 6 @14815 has 48 MA's), (Start: 8 @14791 has 1 MA's),

Gene: Persimmon_30 Start: 14221, Stop: 14018, Start Num: 6
Candidate Starts for Persimmon_30:
(Start: 6 @14221 has 48 MA's), (7, 14203), (Start: 8 @14197 has 1 MA's), (12, 14176),

Gene: PinkiePie_33 Start: 14992, Stop: 14789, Start Num: 6
Candidate Starts for PinkiePie_33:
(Start: 6 @14992 has 48 MA's), (7, 14974), (Start: 8 @14968 has 1 MA's), (12, 14947), (18, 14815),

Gene: PumpkinSpice_35 Start: 16226, Stop: 16020, Start Num: 6
Candidate Starts for PumpkinSpice_35:
(1, 16310), (Start: 6 @16226 has 48 MA's), (10, 16193), (19, 16034),

Gene: Quaran19_36 Start: 16217, Stop: 16011, Start Num: 6
Candidate Starts for Quaran19_36:
(1, 16301), (Start: 6 @16217 has 48 MA's), (10, 16184), (19, 16025),

Gene: SaltySpitoon_36 Start: 16226, Stop: 16020, Start Num: 6
Candidate Starts for SaltySpitoon_36:
(1, 16310), (Start: 6 @16226 has 48 MA's), (10, 16193), (19, 16034),

Gene: Samisti12_32 Start: 15412, Stop: 15209, Start Num: 6
Candidate Starts for Samisti12_32:
(Start: 6 @15412 has 48 MA's), (Start: 8 @15388 has 1 MA's),

Gene: Sollertia_36 Start: 16038, Stop: 15832, Start Num: 6
Candidate Starts for Sollertia_36:
(Start: 6 @16038 has 48 MA's), (10, 16005), (16, 15909), (19, 15846),

Gene: Spelly_36 Start: 16181, Stop: 15975, Start Num: 6
Candidate Starts for Spelly_36:
(1, 16265), (Start: 6 @16181 has 48 MA's), (10, 16148), (19, 15989),

Gene: Spilled_36 Start: 15935, Stop: 15729, Start Num: 6

Candidate Starts for Spilled_36:
(1, 16019), (Start: 6 @15935 has 48 MA's), (10, 15902), (19, 15743),

Gene: Squillium_33 Start: 14991, Stop: 14788, Start Num: 6
Candidate Starts for Squillium_33:
(Start: 6 @14991 has 48 MA's), (7, 14973), (Start: 8 @14967 has 1 MA's), (12, 14946), (18, 14814),

Gene: Stanimal_36 Start: 16038, Stop: 15832, Start Num: 6
Candidate Starts for Stanimal_36:
(Start: 6 @16038 has 48 MA's), (10, 16005), (16, 15909), (19, 15846),

Gene: Starbow_34 Start: 16202, Stop: 15996, Start Num: 6
Candidate Starts for Starbow_34:
(1, 16286), (Start: 6 @16202 has 48 MA's), (10, 16169), (19, 16010),

Gene: Sushi23_33 Start: 15038, Stop: 14835, Start Num: 6
Candidate Starts for Sushi23_33:
(Start: 6 @15038 has 48 MA's), (Start: 8 @15014 has 1 MA's),

Gene: Teutsch_32 Start: 14731, Stop: 14528, Start Num: 6
Candidate Starts for Teutsch_32:
(Start: 6 @14731 has 48 MA's), (Start: 8 @14707 has 1 MA's),

Gene: TomSawyer_34 Start: 15820, Stop: 15614, Start Num: 6
Candidate Starts for TomSawyer_34:
(1, 15904), (Start: 6 @15820 has 48 MA's), (10, 15787), (19, 15628),

Gene: Tribute_31 Start: 14485, Stop: 14306, Start Num: 8
Candidate Starts for Tribute_31:
(Start: 6 @14509 has 48 MA's), (Start: 8 @14485 has 1 MA's), (15, 14413),

Gene: Watermoore_33 Start: 14944, Stop: 14741, Start Num: 6
Candidate Starts for Watermoore_33:
(Start: 6 @14944 has 48 MA's), (Start: 8 @14920 has 1 MA's), (15, 14848),

Gene: WhereRU_32 Start: 14221, Stop: 14018, Start Num: 6
Candidate Starts for WhereRU_32:
(Start: 6 @14221 has 48 MA's), (7, 14203), (Start: 8 @14197 has 1 MA's), (12, 14176),

Gene: Wipeout_34 Start: 15842, Stop: 15636, Start Num: 6
Candidate Starts for Wipeout_34:
(1, 15926), (Start: 6 @15842 has 48 MA's), (10, 15809), (19, 15650),

Gene: Wofford_33 Start: 14982, Stop: 14776, Start Num: 6
Candidate Starts for Wofford_33:
(4, 15027), (5, 15018), (Start: 6 @14982 has 48 MA's), (10, 14949), (19, 14790),

Gene: Yaboi_37 Start: 16014, Stop: 15808, Start Num: 6
Candidate Starts for Yaboi_37:
(Start: 6 @16014 has 48 MA's), (10, 15981), (16, 15885), (19, 15822),