Pham 224677


1: Pytheas_47 + 1
2: Marteena_44 + 1
3: Confidence_44
4: BritBrat_50
5: Pepperoni_37
6: Madeline_43 + 1
7: Lamberg_42 + 14
8: JCole_44
9: FroggyToad_46
10: Yeezy_41
11: Easley_42
12: Beenie_39 + 8
13: Powerball_43
14: PhriskyACE_44
15: Suerte_43
16: Denise_40
17: OneDirection_36
18: RavenCo17_45
19: Lucky10_41
20: MakCheese_58
21: GAL1_38

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 224677 Report

This analysis was run 03/28/25 on database version 593.

Pham number 224677 has 46 members, 7 are drafts.

Phages represented in each track:
• Track 1 : Pytheas_47, Jablanski_47
• Track 2 : Marteena_44, EMsquaredA_45
• Track 3 : Confidence_44
• Track 4 : BritBrat_50
• Track 5 : Pepperoni_37
• Track 6 : Madeline_43, Ohgeesy_46
• Track 7 : Lamberg_42, Nettuno_42, TuertoX_46, Ebert_48, Gizermo_46, Matteo_39, Bosnia_48, Mocha12_46, Sahara_45, Bjanes7_43, Sproutie_46, Whiteclaw_46, Savage_46, Haley23_46, Clap_46
• Track 8 : JCole_44
• Track 9 : FroggyToad_46
• Track 10 : Yeezy_41
• Track 11 : Easley_42
• Track 12 : Beenie_39, DobbysSock_38, Dorito_41, MichaelScott_46, Thimann_43, Clark_45, Sekhmet_46, Samman98_46, Invectra_47
• Track 13 : Powerball_43
• Track 14 : PhriskyACE_44
• Track 15 : Suerte_43
• Track 16 : Denise_40
• Track 17 : OneDirection_36
• Track 18 : RavenCo17_45
• Track 19 : Lucky10_41
• Track 20 : MakCheese_58
• Track 21 : GAL1_38

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

The start number called the most often in the published annotations is 14, it was called in 38 of the 39 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Beenie_39, Bjanes7_43, Bosnia_48, BritBrat_50, Clap_46, Clark_45, Confidence_44, Denise_40, DobbysSock_38, Dorito_41, EMsquaredA_45, Ebert_48, Gizermo_46, Haley23_46, Invectra_47, JCole_44, Jablanski_47, Lamberg_42,

Lucky10_41, Madeline_43, MakCheese_58, Marteena_44, Matteo_39, MichaelScott_46, Mocha12_46, Nettuno_42, Ohgeesy_46, OneDirection_36, Pepperoni_37, PhriskyACE_44, Powerball_43, Pytheas_47, RavenCo17_45, Sahara_45, Samman98_46, Savage_46, Sekhmet_46, Sproutie_46, Suerte_43, Thimann_43, TuertoX_46, Whiteclaw_46, Yeezy_41,

Genes that have the "Most Annotated" start but do not call it:
• GAL1_38,

Genes that do not have the "Most Annotated" start:
• Easley_42, FroggyToad_46,

Summary by start number:

Start 7:
• Found in 1 of 46 (2.2%) of genes in pham
• Manual Annotations of this start: 1 of 39
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Easley_42 (CZ4),

Start 12:
• Found in 1 of 46 (2.2%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: FroggyToad_46 (CZ2),

Start 14:
• Found in 44 of 46 (95.7%) of genes in pham
• Manual Annotations of this start: 38 of 39
• Called 97.7% of time when present
• Phage (with cluster) where this start called: Beenie_39 (CZ4), Bjanes7_43 (CZ2), Bosnia_48 (CZ1), BritBrat_50 (CY2), Clap_46 (CZ2), Clark_45 (CZ4), Confidence_44 (CY1), Denise_40 (CZ5), DobbysSock_38 (CZ4), Dorito_41 (CZ4), EMsquaredA_45 (CY1), Ebert_48 (CZ2), Gizermo_46 (CZ2), Haley23_46 (CZ2), Invectra_47 (CZ4), JCole_44 (CZ2), Jablanski_47 (CY), Lamberg_42 (CZ2), Lucky10_41 (DH), Madeline_43 (CZ1), MakCheese_58 (DW), Marteena_44 (CY1), Matteo_39 (CZ2), MichaelScott_46 (CZ4), Mocha12_46 (CZ2), Nettuno_42 (CZ2), Ohgeesy_46 (CZ), OneDirection_36 (CZ6), Pepperoni_37 (CZ), PhriskyACE_44 (CZ4), Powerball_43 (CZ4), Pytheas_47 (CY), RavenCo17_45 (CZ8), Sahara_45 (CZ2), Samman98_46 (CZ4), Savage_46 (CZ2), Sekhmet_46 (CZ4), Sproutie_46 (CZ2), Suerte_43 (CZ4), Thimann_43 (CZ4), TuertoX_46 (CZ2), Whiteclaw_46 (CZ2), Yeezy_41 (CZ3),

Start 15:
• Found in 37 of 46 (80.4%) of genes in pham
• No Manual Annotations of this start.
• Called 2.7% of time when present
• Phage (with cluster) where this start called: GAL1_38 (singleton),

Summary by clusters:

There are 14 clusters represented in this pham: CY2, CY1, DH, CZ2, CZ3, CZ1, CZ6, singleton, CZ4, CZ5, CZ, CY, CZ8, DW,

Info for manual annotations of cluster CY:
•Start number 14 was manually annotated 2 times for cluster CY.

Info for manual annotations of cluster CY1:
•Start number 14 was manually annotated 3 times for cluster CY1.

Info for manual annotations of cluster CY2:
•Start number 14 was manually annotated 1 time for cluster CY2.

Info for manual annotations of cluster CZ:
•Start number 14 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ1:
•Start number 14 was manually annotated 2 times for cluster CZ1.

Info for manual annotations of cluster CZ2:
•Start number 14 was manually annotated 14 times for cluster CZ2.

Info for manual annotations of cluster CZ3:
•Start number 14 was manually annotated 1 time for cluster CZ3.

Info for manual annotations of cluster CZ4:
•Start number 7 was manually annotated 1 time for cluster CZ4.
•Start number 14 was manually annotated 10 times for cluster CZ4.

Info for manual annotations of cluster CZ5:
•Start number 14 was manually annotated 1 time for cluster CZ5.

Info for manual annotations of cluster CZ6:
•Start number 14 was manually annotated 1 time for cluster CZ6.

Info for manual annotations of cluster CZ8:
•Start number 14 was manually annotated 1 time for cluster CZ8.

Info for manual annotations of cluster DH:
•Start number 14 was manually annotated 1 time for cluster DH.

Gene Information:

Gene: Beenie_39 Start: 33102, Stop: 33449, Start Num: 14
Candidate Starts for Beenie_39:
(Start: 14 @33102 has 38 MA's), (15, 33114), (19, 33147), (23, 33186), (24, 33189),

Gene: Bjanes7_43 Start: 32393, Stop: 32713, Start Num: 14
Candidate Starts for Bjanes7_43:
(Start: 14 @32393 has 38 MA's), (15, 32405), (22, 32474),

Gene: Bosnia_48 Start: 38757, Stop: 39077, Start Num: 14
Candidate Starts for Bosnia_48:
(Start: 14 @38757 has 38 MA's), (15, 38769), (22, 38838),

Gene: BritBrat_50 Start: 36655, Stop: 36975, Start Num: 14
Candidate Starts for BritBrat_50:
(13, 36634), (Start: 14 @36655 has 38 MA's), (15, 36667), (24, 36742), (39, 36832), (47, 36934),

Gene: Clap_46 Start: 32572, Stop: 32892, Start Num: 14
Candidate Starts for Clap_46:
(Start: 14 @32572 has 38 MA's), (15, 32584), (22, 32653),

Gene: Clark_45 Start: 32919, Stop: 33266, Start Num: 14
Candidate Starts for Clark_45:
(Start: 14 @32919 has 38 MA's), (15, 32931), (19, 32964), (23, 33003), (24, 33006),

Gene: Confidence_44 Start: 32986, Stop: 33315, Start Num: 14
Candidate Starts for Confidence_44:
(Start: 14 @32986 has 38 MA's), (15, 32998), (19, 33034), (23, 33079), (24, 33082), (28, 33106), (29, 33115), (31, 33124), (35, 33148), (42, 33226),

Gene: Denise_40 Start: 30667, Stop: 30972, Start Num: 14
Candidate Starts for Denise_40:
(Start: 14 @30667 has 38 MA's), (15, 30679), (29, 30793), (37, 30826), (40, 30853),

Gene: DobbysSock_38 Start: 31761, Stop: 32108, Start Num: 14
Candidate Starts for DobbysSock_38:
(Start: 14 @31761 has 38 MA's), (15, 31773), (19, 31806), (23, 31845), (24, 31848),

Gene: Dorito_41 Start: 31405, Stop: 31752, Start Num: 14
Candidate Starts for Dorito_41:
(Start: 14 @31405 has 38 MA's), (15, 31417), (19, 31450), (23, 31489), (24, 31492),

Gene: EMsquaredA_45 Start: 35353, Stop: 35673, Start Num: 14
Candidate Starts for EMsquaredA_45:
(Start: 14 @35353 has 38 MA's), (15, 35365), (44, 35593),

Gene: Easley_42 Start: 32157, Stop: 32597, Start Num: 7
Candidate Starts for Easley_42:
(Start: 7 @32157 has 1 MA's), (8, 32169), (9, 32202), (15, 32304), (16, 32316), (17, 32322), (21, 32367), (34, 32433), (46, 32544),

Gene: Ebert_48 Start: 32496, Stop: 32816, Start Num: 14
Candidate Starts for Ebert_48:
(Start: 14 @32496 has 38 MA's), (15, 32508), (22, 32577),

Gene: FroggyToad_46 Start: 33116, Stop: 33466, Start Num: 12
Candidate Starts for FroggyToad_46:
(1, 32783), (2, 32819), (3, 32879), (12, 33116),

Gene: GAL1_38 Start: 32000, Stop: 32320, Start Num: 15
Candidate Starts for GAL1_38:
(4, 31772), (5, 31787), (6, 31805), (11, 31922), (Start: 14 @31988 has 38 MA's), (15, 32000), (19, 32033), (20, 32057), (29, 32114), (30, 32117), (32, 32132), (39, 32174),

Gene: Gizermo_46 Start: 32572, Stop: 32892, Start Num: 14

Candidate Starts for Gizermo_46:
(Start: 14 @32572 has 38 MA's), (15, 32584), (22, 32653),

Gene: Haley23_46 Start: 32572, Stop: 32892, Start Num: 14
Candidate Starts for Haley23_46:
(Start: 14 @32572 has 38 MA's), (15, 32584), (22, 32653),

Gene: Invectra_47 Start: 34493, Stop: 34840, Start Num: 14
Candidate Starts for Invectra_47:
(Start: 14 @34493 has 38 MA's), (15, 34505), (19, 34538), (23, 34577), (24, 34580),

Gene: JCole_44 Start: 31590, Stop: 31910, Start Num: 14
Candidate Starts for JCole_44:
(Start: 14 @31590 has 38 MA's),

Gene: Jablanski_47 Start: 37597, Stop: 37914, Start Num: 14
Candidate Starts for Jablanski_47:
(Start: 14 @37597 has 38 MA's), (41, 37822),

Gene: Lamberg_42 Start: 31081, Stop: 31401, Start Num: 14
Candidate Starts for Lamberg_42:
(Start: 14 @31081 has 38 MA's), (15, 31093), (22, 31162),

Gene: Lucky10_41 Start: 31564, Stop: 31848, Start Num: 14
Candidate Starts for Lucky10_41:
(Start: 14 @31564 has 38 MA's), (15, 31576), (18, 31600), (19, 31609), (25, 31651), (26, 31654), (27, 31660), (33, 31690), (36, 31711),

Gene: Madeline_43 Start: 35165, Stop: 35497, Start Num: 14
Candidate Starts for Madeline_43:
(Start: 14 @35165 has 38 MA's), (19, 35213), (23, 35258), (24, 35261), (29, 35294), (31, 35303), (35, 35327), (43, 35408), (45, 35438),

Gene: MakCheese_58 Start: 39633, Stop: 39959, Start Num: 14
Candidate Starts for MakCheese_58:
(Start: 14 @39633 has 38 MA's), (15, 39645), (24, 39720),

Gene: Marteena_44 Start: 35353, Stop: 35673, Start Num: 14
Candidate Starts for Marteena_44:
(Start: 14 @35353 has 38 MA's), (15, 35365), (44, 35593),

Gene: Matteo_39 Start: 30123, Stop: 30443, Start Num: 14
Candidate Starts for Matteo_39:
(Start: 14 @30123 has 38 MA's), (15, 30135), (22, 30204),

Gene: MichaelScott_46 Start: 34395, Stop: 34742, Start Num: 14
Candidate Starts for MichaelScott_46:
(Start: 14 @34395 has 38 MA's), (15, 34407), (19, 34440), (23, 34479), (24, 34482),

Gene: Mocha12_46 Start: 32572, Stop: 32892, Start Num: 14
Candidate Starts for Mocha12_46:
(Start: 14 @32572 has 38 MA's), (15, 32584), (22, 32653),

Gene: Nettuno_42 Start: 31081, Stop: 31401, Start Num: 14
Candidate Starts for Nettuno_42:
(Start: 14 @31081 has 38 MA's), (15, 31093), (22, 31162),

Gene: Ohgeesy_46 Start: 35960, Stop: 36292, Start Num: 14
Candidate Starts for Ohgeesy_46:
(Start: 14 @35960 has 38 MA's), (19, 36008), (23, 36053), (24, 36056), (29, 36089), (31, 36098), (35, 36122), (43, 36203), (45, 36233),

Gene: OneDirection_36 Start: 28076, Stop: 28360, Start Num: 14
Candidate Starts for OneDirection_36:
(10, 27998), (Start: 14 @28076 has 38 MA's), (15, 28088), (18, 28112), (19, 28121), (26, 28166), (27, 28172), (33, 28202), (36, 28223),

Gene: Pepperoni_37 Start: 29393, Stop: 29698, Start Num: 14
Candidate Starts for Pepperoni_37:
(Start: 14 @29393 has 38 MA's), (15, 29405), (19, 29438), (37, 29549), (38, 29552),

Gene: PhriskyACE_44 Start: 33898, Stop: 34227, Start Num: 14
Candidate Starts for PhriskyACE_44:
(Start: 14 @33898 has 38 MA's), (24, 33985), (45, 34168),

Gene: Powerball_43 Start: 33298, Stop: 33615, Start Num: 14
Candidate Starts for Powerball_43:
(Start: 14 @33298 has 38 MA's), (24, 33385),

Gene: Pytheas_47 Start: 37596, Stop: 37913, Start Num: 14
Candidate Starts for Pytheas_47:
(Start: 14 @37596 has 38 MA's), (41, 37821),

Gene: RavenCo17_45 Start: 35658, Stop: 35978, Start Num: 14
Candidate Starts for RavenCo17_45:
(Start: 14 @35658 has 38 MA's), (15, 35670), (35, 35805), (41, 35883), (44, 35898),

Gene: Sahara_45 Start: 32319, Stop: 32639, Start Num: 14
Candidate Starts for Sahara_45:
(Start: 14 @32319 has 38 MA's), (15, 32331), (22, 32400),

Gene: Samman98_46 Start: 33022, Stop: 33369, Start Num: 14
Candidate Starts for Samman98_46:
(Start: 14 @33022 has 38 MA's), (15, 33034), (19, 33067), (23, 33106), (24, 33109),

Gene: Savage_46 Start: 32572, Stop: 32892, Start Num: 14
Candidate Starts for Savage_46:
(Start: 14 @32572 has 38 MA's), (15, 32584), (22, 32653),

Gene: Sekhmet_46 Start: 33922, Stop: 34269, Start Num: 14
Candidate Starts for Sekhmet_46:
(Start: 14 @33922 has 38 MA's), (15, 33934), (19, 33967), (23, 34006), (24, 34009),

Gene: Sproutie_46 Start: 32572, Stop: 32892, Start Num: 14
Candidate Starts for Sproutie_46:
(Start: 14 @32572 has 38 MA's), (15, 32584), (22, 32653),

Gene: Suerte_43 Start: 33581, Stop: 33910, Start Num: 14
Candidate Starts for Suerte_43:
(Start: 14 @33581 has 38 MA's), (15, 33593), (23, 33665), (24, 33668), (45, 33851),

Gene: Thimann_43 Start: 32287, Stop: 32634, Start Num: 14
Candidate Starts for Thimann_43:
(Start: 14 @32287 has 38 MA's), (15, 32299), (19, 32332), (23, 32371), (24, 32374),

Gene: TuertoX_46 Start: 32572, Stop: 32892, Start Num: 14
Candidate Starts for TuertoX_46:
(Start: 14 @32572 has 38 MA's), (15, 32584), (22, 32653),

Gene: Whiteclaw_46 Start: 32572, Stop: 32892, Start Num: 14
Candidate Starts for Whiteclaw_46:
(Start: 14 @32572 has 38 MA's), (15, 32584), (22, 32653),

Gene: Yeezy_41 Start: 32253, Stop: 32549, Start Num: 14
Candidate Starts for Yeezy_41:
(Start: 14 @32253 has 38 MA's),