Pham 278307


1: Marteena_44 + 1
2: Confidence_44
3: BritBrat_50
4: Pytheas_47 + 1
5: Pepperoni_37
6: Madeline_43 + 1
7: Lamberg_42 + 15
8: JCole_44
9: GemG_46
10: FroggyToad_46
11: Cynthia_46
12: Yeezy_41
13: Beenie_39 + 8
14: Powerball_43
15: PhriskyACE_44
16: Suerte_43
17: Tuti_46
18: Denise_40
19: OneDirection_36
20: RavenCo17_45
21: Lucky10_41
22: MakCheese_58
23: 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 278307 Report

This analysis was run 02/07/26 on database version 634.

Pham number 278307 has 49 members, 8 are drafts.

Phages represented in each track:
• Track 1 : Marteena_44, EMsquaredA_45
• Track 2 : Confidence_44
• Track 3 : BritBrat_50
• Track 4 : Pytheas_47, Jablanski_47
• 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, Jalleen_46, Savage_46, Haley23_46, Clap_46
• Track 8 : JCole_44
• Track 9 : GemG_46
• Track 10 : FroggyToad_46
• Track 11 : Cynthia_46
• Track 12 : Yeezy_41
• Track 13 : Beenie_39, DobbysSock_38, Invectra_47, Dorito_41, MichaelScott_46, Thimann_43, Clark_45, Sekhmet_46, Samman98_46
• Track 14 : Powerball_43
• Track 15 : PhriskyACE_44
• Track 16 : Suerte_43
• Track 17 : Tuti_46
• Track 18 : Denise_40
• Track 19 : OneDirection_36
• Track 20 : RavenCo17_45
• Track 21 : Lucky10_41
• Track 22 : MakCheese_58
• Track 23 : 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 11, it was called in 39 of the 41 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, Jalleen_46, 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, Tuti_46,

Genes that do not have the "Most Annotated" start:
• Cynthia_46, FroggyToad_46, GemG_46,

Summary by start number:

Start 9:
• Found in 1 of 49 (2.0%) 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 11:
• Found in 46 of 49 (93.9%) of genes in pham
• Manual Annotations of this start: 39 of 41
• Called 95.7% 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 (CY3), Jalleen_46 (CZ2), 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 (CY3), 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 12:
• Found in 38 of 49 (77.6%) of genes in pham
• No Manual Annotations of this start.
• Called 2.6% of time when present
• Phage (with cluster) where this start called: GAL1_38 (singleton),

Start 14:
• Found in 17 of 49 (34.7%) of genes in pham
• No Manual Annotations of this start.
• Called 5.9% of time when present
• Phage (with cluster) where this start called: Tuti_46 (CZ4),

Start 16:

• Found in 18 of 49 (36.7%) of genes in pham
• Manual Annotations of this start: 2 of 41
• Called 11.1% of time when present
• Phage (with cluster) where this start called: Cynthia_46 (CZ2), GemG_46 (CZ2),

Summary by clusters:

There are 14 clusters represented in this pham: CY3, CY2, CY1, DH, CZ2, CZ3, CZ1, CZ6, singleton, CZ4, CZ5, CZ, CZ8, DW,

Info for manual annotations of cluster CY1:
•Start number 11 was manually annotated 3 times for cluster CY1.

Info for manual annotations of cluster CY2:
•Start number 11 was manually annotated 1 time for cluster CY2.

Info for manual annotations of cluster CY3:
•Start number 11 was manually annotated 2 times for cluster CY3.

Info for manual annotations of cluster CZ:
•Start number 11 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ1:
•Start number 11 was manually annotated 2 times for cluster CZ1.

Info for manual annotations of cluster CZ2:
•Start number 11 was manually annotated 14 times for cluster CZ2.
•Start number 16 was manually annotated 2 times for cluster CZ2.

Info for manual annotations of cluster CZ3:
•Start number 11 was manually annotated 1 time for cluster CZ3.

Info for manual annotations of cluster CZ4:
•Start number 11 was manually annotated 11 times for cluster CZ4.

Info for manual annotations of cluster CZ5:
•Start number 11 was manually annotated 1 time for cluster CZ5.

Info for manual annotations of cluster CZ6:
•Start number 11 was manually annotated 1 time for cluster CZ6.

Info for manual annotations of cluster CZ8:
•Start number 11 was manually annotated 1 time for cluster CZ8.

Info for manual annotations of cluster DH:
•Start number 11 was manually annotated 1 time for cluster DH.

Gene Information:

Gene: Beenie_39 Start: 33102, Stop: 33449, Start Num: 11

Candidate Starts for Beenie_39:
(Start: 11 @33102 has 39 MA's), (12, 33114), (14, 33147), (17, 33186), (18, 33189),

Gene: Bjanes7_43 Start: 32393, Stop: 32713, Start Num: 11
Candidate Starts for Bjanes7_43:
(Start: 11 @32393 has 39 MA's), (12, 32405), (Start: 16 @32474 has 2 MA's),

Gene: Bosnia_48 Start: 38757, Stop: 39077, Start Num: 11
Candidate Starts for Bosnia_48:
(Start: 11 @38757 has 39 MA's), (12, 38769), (Start: 16 @38838 has 2 MA's),

Gene: BritBrat_50 Start: 36655, Stop: 36975, Start Num: 11
Candidate Starts for BritBrat_50:
(10, 36634), (Start: 11 @36655 has 39 MA's), (12, 36667), (18, 36742), (32, 36832), (39, 36934),

Gene: Clap_46 Start: 32572, Stop: 32892, Start Num: 11
Candidate Starts for Clap_46:
(Start: 11 @32572 has 39 MA's), (12, 32584), (Start: 16 @32653 has 2 MA's),

Gene: Clark_45 Start: 32919, Stop: 33266, Start Num: 11
Candidate Starts for Clark_45:
(Start: 11 @32919 has 39 MA's), (12, 32931), (14, 32964), (17, 33003), (18, 33006),

Gene: Confidence_44 Start: 32986, Stop: 33315, Start Num: 11
Candidate Starts for Confidence_44:
(Start: 11 @32986 has 39 MA's), (12, 32998), (14, 33034), (17, 33079), (18, 33082), (22, 33106), (23, 33115), (26, 33124), (29, 33148), (35, 33226),

Gene: Cynthia_46 Start: 32651, Stop: 32890, Start Num: 16
Candidate Starts for Cynthia_46:
(Start: 16 @32651 has 2 MA's),

Gene: Denise_40 Start: 30667, Stop: 30972, Start Num: 11
Candidate Starts for Denise_40:
(Start: 11 @30667 has 39 MA's), (12, 30679), (25, 30793), (30, 30826), (33, 30853),

Gene: DobbysSock_38 Start: 31761, Stop: 32108, Start Num: 11
Candidate Starts for DobbysSock_38:
(Start: 11 @31761 has 39 MA's), (12, 31773), (14, 31806), (17, 31845), (18, 31848),

Gene: Dorito_41 Start: 31405, Stop: 31752, Start Num: 11
Candidate Starts for Dorito_41:
(Start: 11 @31405 has 39 MA's), (12, 31417), (14, 31450), (17, 31489), (18, 31492),

Gene: EMsquaredA_45 Start: 35353, Stop: 35673, Start Num: 11
Candidate Starts for EMsquaredA_45:
(Start: 11 @35353 has 39 MA's), (12, 35365), (37, 35593),

Gene: Ebert_48 Start: 32496, Stop: 32816, Start Num: 11
Candidate Starts for Ebert_48:
(Start: 11 @32496 has 39 MA's), (12, 32508), (Start: 16 @32577 has 2 MA's),

Gene: FroggyToad_46 Start: 33116, Stop: 33466, Start Num: 9

Candidate Starts for FroggyToad_46:
(1, 32783), (2, 32819), (3, 32879), (9, 33116),

Gene: GAL1_38 Start: 32000, Stop: 32320, Start Num: 12
Candidate Starts for GAL1_38:
(4, 31772), (5, 31787), (6, 31805), (8, 31922), (Start: 11 @31988 has 39 MA's), (12, 32000), (14, 32033), (15, 32057), (23, 32114), (24, 32117), (28, 32132), (32, 32174),

Gene: GemG_46 Start: 32657, Stop: 32896, Start Num: 16
Candidate Starts for GemG_46:
(Start: 16 @32657 has 2 MA's),

Gene: Gizermo_46 Start: 32572, Stop: 32892, Start Num: 11
Candidate Starts for Gizermo_46:
(Start: 11 @32572 has 39 MA's), (12, 32584), (Start: 16 @32653 has 2 MA's),

Gene: Haley23_46 Start: 32572, Stop: 32892, Start Num: 11
Candidate Starts for Haley23_46:
(Start: 11 @32572 has 39 MA's), (12, 32584), (Start: 16 @32653 has 2 MA's),

Gene: Invectra_47 Start: 34493, Stop: 34840, Start Num: 11
Candidate Starts for Invectra_47:
(Start: 11 @34493 has 39 MA's), (12, 34505), (14, 34538), (17, 34577), (18, 34580),

Gene: JCole_44 Start: 31590, Stop: 31910, Start Num: 11
Candidate Starts for JCole_44:
(Start: 11 @31590 has 39 MA's),

Gene: Jablanski_47 Start: 37597, Stop: 37914, Start Num: 11
Candidate Starts for Jablanski_47:
(Start: 11 @37597 has 39 MA's), (34, 37822),

Gene: Jalleen_46 Start: 32211, Stop: 32531, Start Num: 11
Candidate Starts for Jalleen_46:
(Start: 11 @32211 has 39 MA's), (12, 32223), (Start: 16 @32292 has 2 MA's),

Gene: Lamberg_42 Start: 31081, Stop: 31401, Start Num: 11
Candidate Starts for Lamberg_42:
(Start: 11 @31081 has 39 MA's), (12, 31093), (Start: 16 @31162 has 2 MA's),

Gene: Lucky10_41 Start: 31564, Stop: 31848, Start Num: 11
Candidate Starts for Lucky10_41:
(Start: 11 @31564 has 39 MA's), (12, 31576), (13, 31600), (14, 31609), (19, 31651), (20, 31654), (21, 31660), (27, 31690), (29, 31711),

Gene: Madeline_43 Start: 35165, Stop: 35497, Start Num: 11
Candidate Starts for Madeline_43:
(Start: 11 @35165 has 39 MA's), (14, 35213), (17, 35258), (18, 35261), (23, 35294), (26, 35303), (29, 35327), (36, 35408), (38, 35438),

Gene: MakCheese_58 Start: 39633, Stop: 39959, Start Num: 11
Candidate Starts for MakCheese_58:
(Start: 11 @39633 has 39 MA's), (12, 39645), (18, 39720),

Gene: Marteena_44 Start: 35353, Stop: 35673, Start Num: 11
Candidate Starts for Marteena_44:
(Start: 11 @35353 has 39 MA's), (12, 35365), (37, 35593),

Gene: Matteo_39 Start: 30123, Stop: 30443, Start Num: 11
Candidate Starts for Matteo_39:
(Start: 11 @30123 has 39 MA's), (12, 30135), (Start: 16 @30204 has 2 MA's),

Gene: MichaelScott_46 Start: 34395, Stop: 34742, Start Num: 11
Candidate Starts for MichaelScott_46:
(Start: 11 @34395 has 39 MA's), (12, 34407), (14, 34440), (17, 34479), (18, 34482),

Gene: Mocha12_46 Start: 32572, Stop: 32892, Start Num: 11
Candidate Starts for Mocha12_46:
(Start: 11 @32572 has 39 MA's), (12, 32584), (Start: 16 @32653 has 2 MA's),

Gene: Nettuno_42 Start: 31081, Stop: 31401, Start Num: 11
Candidate Starts for Nettuno_42:
(Start: 11 @31081 has 39 MA's), (12, 31093), (Start: 16 @31162 has 2 MA's),

Gene: Ohgeesy_46 Start: 35960, Stop: 36292, Start Num: 11
Candidate Starts for Ohgeesy_46:
(Start: 11 @35960 has 39 MA's), (14, 36008), (17, 36053), (18, 36056), (23, 36089), (26, 36098), (29, 36122), (36, 36203), (38, 36233),

Gene: OneDirection_36 Start: 28076, Stop: 28360, Start Num: 11
Candidate Starts for OneDirection_36:
(7, 27998), (Start: 11 @28076 has 39 MA's), (12, 28088), (13, 28112), (14, 28121), (20, 28166), (21, 28172), (27, 28202), (29, 28223),

Gene: Pepperoni_37 Start: 29393, Stop: 29698, Start Num: 11
Candidate Starts for Pepperoni_37:
(Start: 11 @29393 has 39 MA's), (12, 29405), (14, 29438), (30, 29549), (31, 29552),

Gene: PhriskyACE_44 Start: 33898, Stop: 34227, Start Num: 11
Candidate Starts for PhriskyACE_44:
(Start: 11 @33898 has 39 MA's), (18, 33985), (38, 34168),

Gene: Powerball_43 Start: 33298, Stop: 33615, Start Num: 11
Candidate Starts for Powerball_43:
(Start: 11 @33298 has 39 MA's), (18, 33385),

Gene: Pytheas_47 Start: 37596, Stop: 37913, Start Num: 11
Candidate Starts for Pytheas_47:
(Start: 11 @37596 has 39 MA's), (34, 37821),

Gene: RavenCo17_45 Start: 35658, Stop: 35978, Start Num: 11
Candidate Starts for RavenCo17_45:
(Start: 11 @35658 has 39 MA's), (12, 35670), (29, 35805), (34, 35883), (37, 35898),

Gene: Sahara_45 Start: 32319, Stop: 32639, Start Num: 11
Candidate Starts for Sahara_45:

(Start: 11 @32319 has 39 MA's), (12, 32331), (Start: 16 @32400 has 2 MA's),

Gene: Samman98_46 Start: 33022, Stop: 33369, Start Num: 11
Candidate Starts for Samman98_46:
(Start: 11 @33022 has 39 MA's), (12, 33034), (14, 33067), (17, 33106), (18, 33109),

Gene: Savage_46 Start: 32572, Stop: 32892, Start Num: 11
Candidate Starts for Savage_46:
(Start: 11 @32572 has 39 MA's), (12, 32584), (Start: 16 @32653 has 2 MA's),

Gene: Sekhmet_46 Start: 33922, Stop: 34269, Start Num: 11
Candidate Starts for Sekhmet_46:
(Start: 11 @33922 has 39 MA's), (12, 33934), (14, 33967), (17, 34006), (18, 34009),

Gene: Sproutie_46 Start: 32572, Stop: 32892, Start Num: 11
Candidate Starts for Sproutie_46:
(Start: 11 @32572 has 39 MA's), (12, 32584), (Start: 16 @32653 has 2 MA's),

Gene: Suerte_43 Start: 33581, Stop: 33910, Start Num: 11
Candidate Starts for Suerte_43:
(Start: 11 @33581 has 39 MA's), (12, 33593), (17, 33665), (18, 33668), (38, 33851),

Gene: Thimann_43 Start: 32287, Stop: 32634, Start Num: 11
Candidate Starts for Thimann_43:
(Start: 11 @32287 has 39 MA's), (12, 32299), (14, 32332), (17, 32371), (18, 32374),

Gene: TuertoX_46 Start: 32572, Stop: 32892, Start Num: 11
Candidate Starts for TuertoX_46:
(Start: 11 @32572 has 39 MA's), (12, 32584), (Start: 16 @32653 has 2 MA's),

Gene: Tuti_46 Start: 33782, Stop: 34084, Start Num: 14
Candidate Starts for Tuti_46:
(Start: 11 @33737 has 39 MA's), (12, 33749), (14, 33782), (17, 33821), (18, 33824),

Gene: Whiteclaw_46 Start: 32572, Stop: 32892, Start Num: 11
Candidate Starts for Whiteclaw_46:
(Start: 11 @32572 has 39 MA's), (12, 32584), (Start: 16 @32653 has 2 MA's),

Gene: Yeezy_41 Start: 32253, Stop: 32549, Start Num: 11
Candidate Starts for Yeezy_41:
(Start: 11 @32253 has 39 MA's),