Pham 291146

1: ThursdayNight_53
2: Community_54 + 9
3: AEgle_47 + 2
4: Yang_50 + 1
5: MissSwiss_53
6: Mudpuppy_47 + 15
7: Adolin_54
8: Adumb2043_48 + 1
9: Crewmate_56
10: Warda_51 + 1
11: KeAlii_48
12: Wildwest_50 + 1
13: Tallboi_50
14: ObiToo_55
15: Pixelle_53 + 2
16: Sue2_51
17: DrManhattan_53
18: Cassia_49
19: Berrie_52
20: IttyBittyPiggy_51
21: Janeemi_53
22: Schaffner_50
23: VResidence_51
24: Phives_55
25: TforTroy_51
26: Pumpkins_49
27: Maureen_52 + 2
28: MaGuCo_48
29: Tweety19_53 + 1
30: Exile_45
31: Soondubu_47
32: AinMach_49

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 291146 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291146 has 67 members, 15 are drafts.

Phages represented in each track:
• Track 1 : ThursdayNight_53
• Track 2 : Community_54, Niobe_49, Jstan_51, London_49, Tuck_54, Skelbel_50, Eraser_49, Asa16_49, Subaru_50, Elezi_49
• Track 3 : AEgle_47, Nitro_52, Amploria_49
• Track 4 : Yang_50, JuneStar_52
• Track 5 : MissSwiss_53
• Track 6 : Mudpuppy_47, Lego_50, AGrandiflora_53, Joemato_51, Flutur_50, Iter_52, Lizalica_50, YesChef_51, Cyan_51, Simpson_53, Tutumahutu_52, Reedo_50, Kaylissa_52, Ascela_52, Powerpuff_53, JohnDoe_51
• Track 7 : Adolin_54
• Track 8 : Adumb2043_48, Turab_48
• Track 9 : Crewmate_56
• Track 10 : Warda_51, Tbone_51
• Track 11 : KeAlii_48
• Track 12 : Wildwest_50, DrSierra_49
• Track 13 : Tallboi_50
• Track 14 : ObiToo_55
• Track 15 : Pixelle_53, Tian_51, Amyev_52
• Track 16 : Sue2_51
• Track 17 : DrManhattan_53
• Track 18 : Cassia_49
• Track 19 : Berrie_52
• Track 20 : IttyBittyPiggy_51
• Track 21 : Janeemi_53
• Track 22 : Schaffner_50
• Track 23 : VResidence_51
• Track 24 : Phives_55
• Track 25 : TforTroy_51
• Track 26 : Pumpkins_49
• Track 27 : Maureen_52, IUFootball_52, Liebe_52
• Track 28 : MaGuCo_48
• Track 29 : Tweety19_53, Snek_52
• Track 30 : Exile_45
• Track 31 : Soondubu_47
• Track 32 : AinMach_49

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 49 of the 52 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AEgle_47, AGrandiflora_53, Adolin_54, Adumb2043_48, AinMach_49, Amploria_49, Amyev_52, Asa16_49, Ascela_52, Berrie_52, Cassia_49, Community_54, Cyan_51, DrManhattan_53, DrSierra_49, Elezi_49, Eraser_49, Exile_45, Flutur_50, IUFootball_52, Iter_52, IttyBittyPiggy_51, Janeemi_53, Joemato_51, JohnDoe_51, Jstan_51, JuneStar_52, Kaylissa_52, KeAlii_48, Lego_50, Liebe_52, Lizalica_50, London_49, MaGuCo_48, Maureen_52, MissSwiss_53, Mudpuppy_47, Niobe_49, Nitro_52, ObiToo_55, Phives_55, Pixelle_53, Powerpuff_53, Pumpkins_49, Reedo_50, Schaffner_50, Simpson_53, Skelbel_50, Soondubu_47, Subaru_50, Sue2_51, Tallboi_50, Tbone_51, TforTroy_51, ThursdayNight_53, Tian_51, Tuck_54, Turab_48, Tutumahutu_52, VResidence_51, Warda_51, Wildwest_50, Yang_50, YesChef_51,

Genes that have the "Most Annotated" start but do not call it:
• Crewmate_56,

Genes that do not have the "Most Annotated" start:
• Snek_52, Tweety19_53,

Summary by start number:

Start 6:
• Found in 7 of 67 (10.4%) of genes in pham
• Manual Annotations of this start: 1 of 52
• Called 14.3% of time when present
• Phage (with cluster) where this start called: Crewmate_56 (AZ1),

Start 11:
• Found in 65 of 67 (97.0%) of genes in pham
• Manual Annotations of this start: 49 of 52
• Called 98.5% of time when present
• Phage (with cluster) where this start called: AEgle_47 (AZ1), AGrandiflora_53 (AZ1), Adolin_54 (AZ1), Adumb2043_48 (AZ1), AinMach_49 (AZ7), Amploria_49 (AZ1), Amyev_52 (AZ1), Asa16_49 (AZ1), Ascela_52 (AZ1), Berrie_52 (AZ1), Cassia_49 (AZ1), Community_54 (AZ1), Cyan_51 (AZ1), DrManhattan_53 (AZ1), DrSierra_49 (AZ1), Elezi_49 (AZ1), Eraser_49 (AZ1), Exile_45 (AZ6), Flutur_50 (AZ), IUFootball_52 (AZ2), Iter_52 (AZ1), IttyBittyPiggy_51 (AZ1), Janeemi_53 (AZ1), Joemato_51 (AZ1), JohnDoe_51 (AZ1), Jstan_51 (AZ1), JuneStar_52 (AZ1), Kaylissa_52 (AZ1), KeAlii_48 (AZ1), Lego_50 (AZ1), Liebe_52 (AZ2), Lizalica_50 (AZ1), London_49 (AZ1), MaGuCo_48 (AZ2), Maureen_52 (AZ2), MissSwiss_53 (AZ1), Mudpuppy_47 (AZ1), Niobe_49 (AZ1), Nitro_52 (AZ1), ObiToo_55 (AZ1), Phives_55 (AZ1), Pixelle_53 (AZ1), Powerpuff_53 (AZ1), Pumpkins_49 (AZ1), Reedo_50 (AZ1), Schaffner_50 (AZ1), Simpson_53 (AZ1), Skelbel_50 (AZ1), Soondubu_47 (AZ6), Subaru_50 (AZ1), Sue2_51 (AZ1), Tallboi_50 (AZ1), Tbone_51 (AZ1), TforTroy_51 (AZ1), ThursdayNight_53 (AZ), Tian_51 (AZ1), Tuck_54 (AZ1), Turab_48 (AZ1), Tutumahutu_52 (AZ1), VResidence_51 (AZ1), Warda_51 (AZ1), Wildwest_50 (AZ1), Yang_50 (AZ1), YesChef_51 (AZ1),

Start 16:
• Found in 2 of 67 (3.0%) of genes in pham
• Manual Annotations of this start: 2 of 52
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Snek_52 (AZ3), Tweety19_53 (AZ3),

Summary by clusters:

There are 6 clusters represented in this pham: AZ, AZ1, AZ2, AZ3, AZ6, AZ7,

Info for manual annotations of cluster AZ1:
•Start number 6 was manually annotated 1 time for cluster AZ1.
•Start number 11 was manually annotated 45 times for cluster AZ1.

Info for manual annotations of cluster AZ2:
•Start number 11 was manually annotated 3 times for cluster AZ2.

Info for manual annotations of cluster AZ3:
•Start number 16 was manually annotated 2 times for cluster AZ3.

Info for manual annotations of cluster AZ6:
•Start number 11 was manually annotated 1 time for cluster AZ6.

Gene Information:
Gene: AEgle_47 Start: 36062, Stop: 36316, Start Num: 11
Candidate Starts for AEgle_47:
(10, 36029), (Start: 11 @36062 has 49 MA's),

Gene: AGrandiflora_53 Start: 37369, Stop: 37653, Start Num: 11
Candidate Starts for AGrandiflora_53:
(9, 37336), (Start: 11 @37369 has 49 MA's),

Gene: Adolin_54 Start: 36438, Stop: 36752, Start Num: 11
Candidate Starts for Adolin_54:
(4, 36312), (Start: 6 @36369 has 1 MA's), (Start: 11 @36438 has 49 MA's), (17, 36525), (27, 36636),

Gene: Adumb2043_48 Start: 36083, Stop: 36337, Start Num: 11
Candidate Starts for Adumb2043_48:
(10, 36050), (Start: 11 @36083 has 49 MA's),

Gene: AinMach_49 Start: 36352, Stop: 36591, Start Num: 11
Candidate Starts for AinMach_49:
(2, 36199), (Start: 6 @36283 has 1 MA's), (Start: 11 @36352 has 49 MA's), (12, 36361), (14, 36409),
(18, 36460), (19, 36493),

Gene: Amploria_49 Start: 36266, Stop: 36520, Start Num: 11
Candidate Starts for Amploria_49:

(10, 36233), (Start: 11 @36266 has 49 MA's),

Gene: Amyev_52 Start: 39535, Stop: 39798, Start Num: 11
Candidate Starts for Amyev_52:
(Start: 11 @39535 has 49 MA's),

Gene: Asa16_49 Start: 37619, Stop: 37879, Start Num: 11
Candidate Starts for Asa16_49:
(Start: 11 @37619 has 49 MA's),

Gene: Ascela_52 Start: 37685, Stop: 37954, Start Num: 11
Candidate Starts for Ascela_52:
(9, 37652), (Start: 11 @37685 has 49 MA's),

Gene: Berrie_52 Start: 37779, Stop: 38051, Start Num: 11
Candidate Starts for Berrie_52:
(Start: 11 @37779 has 49 MA's),

Gene: Cassia_49 Start: 36777, Stop: 37070, Start Num: 11
Candidate Starts for Cassia_49:
(Start: 6 @36708 has 1 MA's), (Start: 11 @36777 has 49 MA's),

Gene: Community_54 Start: 39171, Stop: 39443, Start Num: 11
Candidate Starts for Community_54:
(Start: 11 @39171 has 49 MA's),

Gene: Crewmate_56 Start: 38454, Stop: 38834, Start Num: 6
Candidate Starts for Crewmate_56:
(Start: 6 @38454 has 1 MA's), (Start: 11 @38523 has 49 MA's),

Gene: Cyan_51 Start: 36938, Stop: 37210, Start Num: 11
Candidate Starts for Cyan_51:
(9, 36905), (Start: 11 @36938 has 49 MA's),

Gene: DrManhattan_53 Start: 36006, Stop: 36320, Start Num: 11
Candidate Starts for DrManhattan_53:
(Start: 6 @35937 has 1 MA's), (Start: 11 @36006 has 49 MA's), (17, 36093), (27, 36204),

Gene: DrSierra_49 Start: 35765, Stop: 36037, Start Num: 11
Candidate Starts for DrSierra_49:
(Start: 11 @35765 has 49 MA's),

Gene: Elezi_49 Start: 37617, Stop: 37877, Start Num: 11
Candidate Starts for Elezi_49:
(Start: 11 @37617 has 49 MA's),

Gene: Eraser_49 Start: 37626, Stop: 37886, Start Num: 11
Candidate Starts for Eraser_49:
(Start: 11 @37626 has 49 MA's),

Gene: Exile_45 Start: 38999, Stop: 39256, Start Num: 11
Candidate Starts for Exile_45:
(Start: 11 @38999 has 49 MA's), (13, 39011),

Gene: Flutur_50 Start: 37235, Stop: 37519, Start Num: 11
Candidate Starts for Flutur_50:
(9, 37202), (Start: 11 @37235 has 49 MA's),

Gene: IUFootball_52 Start: 39105, Stop: 39404, Start Num: 11
Candidate Starts for IUFootball_52:
(Start: 11 @39105 has 49 MA's), (26, 39297),

Gene: Iter_52 Start: 37677, Stop: 37946, Start Num: 11
Candidate Starts for Iter_52:
(9, 37644), (Start: 11 @37677 has 49 MA's),

Gene: IttyBittyPiggy_51 Start: 36368, Stop: 36658, Start Num: 11
Candidate Starts for IttyBittyPiggy_51:
(Start: 11 @36368 has 49 MA's),

Gene: Janeemi_53 Start: 38635, Stop: 38907, Start Num: 11
Candidate Starts for Janeemi_53:
(5, 38518), (8, 38599), (Start: 11 @38635 has 49 MA's),

Gene: Joemato_51 Start: 37006, Stop: 37290, Start Num: 11
Candidate Starts for Joemato_51:
(9, 36973), (Start: 11 @37006 has 49 MA's),

Gene: JohnDoe_51 Start: 37002, Stop: 37274, Start Num: 11
Candidate Starts for JohnDoe_51:
(9, 36969), (Start: 11 @37002 has 49 MA's),

Gene: Jstan_51 Start: 37621, Stop: 37881, Start Num: 11
Candidate Starts for Jstan_51:
(Start: 11 @37621 has 49 MA's),

Gene: JuneStar_52 Start: 39731, Stop: 40000, Start Num: 11
Candidate Starts for JuneStar_52:
(1, 39578), (10, 39698), (Start: 11 @39731 has 49 MA's),

Gene: Kaylissa_52 Start: 37385, Stop: 37669, Start Num: 11
Candidate Starts for Kaylissa_52:
(9, 37352), (Start: 11 @37385 has 49 MA's),

Gene: KeAlii_48 Start: 36562, Stop: 36861, Start Num: 11
Candidate Starts for KeAlii_48:
(9, 36526), (Start: 11 @36562 has 49 MA's), (23, 36718), (28, 36775),

Gene: Lego_50 Start: 36705, Stop: 36989, Start Num: 11
Candidate Starts for Lego_50:
(9, 36672), (Start: 11 @36705 has 49 MA's),

Gene: Liebe_52 Start: 39105, Stop: 39404, Start Num: 11
Candidate Starts for Liebe_52:
(Start: 11 @39105 has 49 MA's), (26, 39297),

Gene: Lizalica_50 Start: 36462, Stop: 36734, Start Num: 11
Candidate Starts for Lizalica_50:
(9, 36429), (Start: 11 @36462 has 49 MA's),

Gene: London_49 Start: 37617, Stop: 37877, Start Num: 11
Candidate Starts for London_49:
(Start: 11 @37617 has 49 MA's),

Gene: MaGuCo_48 Start: 37793, Stop: 38095, Start Num: 11
Candidate Starts for MaGuCo_48:
(Start: 11 @37793 has 49 MA's), (20, 37943), (21, 37952),

Gene: Maureen_52 Start: 39104, Stop: 39403, Start Num: 11
Candidate Starts for Maureen_52:
(Start: 11 @39104 has 49 MA's), (26, 39296),

Gene: MissSwiss_53 Start: 36235, Stop: 36483, Start Num: 11
Candidate Starts for MissSwiss_53:
(Start: 11 @36235 has 49 MA's),

Gene: Mudpuppy_47 Start: 36646, Stop: 36918, Start Num: 11
Candidate Starts for Mudpuppy_47:
(9, 36613), (Start: 11 @36646 has 49 MA's),

Gene: Niobe_49 Start: 37620, Stop: 37880, Start Num: 11
Candidate Starts for Niobe_49:
(Start: 11 @37620 has 49 MA's),

Gene: Nitro_52 Start: 38740, Stop: 38985, Start Num: 11
Candidate Starts for Nitro_52:
(10, 38707), (Start: 11 @38740 has 49 MA's),

Gene: ObiToo_55 Start: 37917, Stop: 38228, Start Num: 11
Candidate Starts for ObiToo_55:
(Start: 6 @37848 has 1 MA's), (Start: 11 @37917 has 49 MA's),

Gene: Phives_55 Start: 39196, Stop: 39561, Start Num: 11
Candidate Starts for Phives_55:
(Start: 11 @39196 has 49 MA's), (24, 39367), (29, 39436),

Gene: Pixelle_53 Start: 39880, Stop: 40143, Start Num: 11
Candidate Starts for Pixelle_53:
(Start: 11 @39880 has 49 MA's),

Gene: Powerpuff_53 Start: 38092, Stop: 38376, Start Num: 11
Candidate Starts for Powerpuff_53:
(9, 38059), (Start: 11 @38092 has 49 MA's),

Gene: Pumpkins_49 Start: 37435, Stop: 37743, Start Num: 11
Candidate Starts for Pumpkins_49:
(9, 37402), (Start: 11 @37435 has 49 MA's), (22, 37597),

Gene: Reedo_50 Start: 35488, Stop: 35727, Start Num: 11

Candidate Starts for Reedo_50:
(9, 35455), (Start: 11 @35488 has 49 MA's),

Gene: Schaffner_50 Start: 37408, Stop: 37677, Start Num: 11
Candidate Starts for Schaffner_50:
(10, 37375), (Start: 11 @37408 has 49 MA's),

Gene: Simpson_53 Start: 37010, Stop: 37294, Start Num: 11
Candidate Starts for Simpson_53:
(9, 36977), (Start: 11 @37010 has 49 MA's),

Gene: Skelbel_50 Start: 37620, Stop: 37880, Start Num: 11
Candidate Starts for Skelbel_50:
(Start: 11 @37620 has 49 MA's),

Gene: Snek_52 Start: 36382, Stop: 36615, Start Num: 16
Candidate Starts for Snek_52:
(Start: 16 @36382 has 2 MA's),

Gene: Soondubu_47 Start: 39482, Stop: 39739, Start Num: 11
Candidate Starts for Soondubu_47:
(Start: 11 @39482 has 49 MA's), (13, 39494), (15, 39539),

Gene: Subaru_50 Start: 37617, Stop: 37877, Start Num: 11
Candidate Starts for Subaru_50:
(Start: 11 @37617 has 49 MA's),

Gene: Sue2_51 Start: 36740, Stop: 37063, Start Num: 11
Candidate Starts for Sue2_51:
(7, 36683), (9, 36704), (Start: 11 @36740 has 49 MA's),

Gene: Tallboi_50 Start: 37975, Stop: 38235, Start Num: 11
Candidate Starts for Tallboi_50:
(3, 37849), (Start: 6 @37906 has 1 MA's), (Start: 11 @37975 has 49 MA's),

Gene: Tbone_51 Start: 37543, Stop: 37860, Start Num: 11
Candidate Starts for Tbone_51:
(9, 37510), (Start: 11 @37543 has 49 MA's), (30, 37813), (31, 37834),

Gene: TforTroy_51 Start: 37334, Stop: 37600, Start Num: 11
Candidate Starts for TforTroy_51:
(Start: 11 @37334 has 49 MA's),

Gene: ThursdayNight_53 Start: 38169, Stop: 38507, Start Num: 11
Candidate Starts for ThursdayNight_53:
(Start: 11 @38169 has 49 MA's),

Gene: Tian_51 Start: 39535, Stop: 39798, Start Num: 11
Candidate Starts for Tian_51:
(Start: 11 @39535 has 49 MA's),

Gene: Tuck_54 Start: 39079, Stop: 39351, Start Num: 11
Candidate Starts for Tuck_54:

(Start: 11 @39079 has 49 MA's),

Gene: Turab_48 Start: 36106, Stop: 36360, Start Num: 11
Candidate Starts for Turab_48:
(10, 36073), (Start: 11 @36106 has 49 MA's),

Gene: Tutumahutu_52 Start: 36975, Stop: 37247, Start Num: 11
Candidate Starts for Tutumahutu_52:
(9, 36942), (Start: 11 @36975 has 49 MA's),

Gene: Tweety19_53 Start: 36382, Stop: 36615, Start Num: 16
Candidate Starts for Tweety19_53:
(Start: 16 @36382 has 2 MA's),

Gene: VResidence_51 Start: 36422, Stop: 36793, Start Num: 11
Candidate Starts for VResidence_51:
(9, 36389), (Start: 11 @36422 has 49 MA's), (25, 36602),

Gene: Warda_51 Start: 37041, Stop: 37358, Start Num: 11
Candidate Starts for Warda_51:
(9, 37008), (Start: 11 @37041 has 49 MA's), (30, 37311), (31, 37332),

Gene: Wildwest_50 Start: 37020, Stop: 37292, Start Num: 11
Candidate Starts for Wildwest_50:
(Start: 11 @37020 has 49 MA's),

Gene: Yang_50 Start: 37140, Stop: 37409, Start Num: 11
Candidate Starts for Yang_50:
(1, 36987), (10, 37107), (Start: 11 @37140 has 49 MA's),

Gene: YesChef_51 Start: 36951, Stop: 37235, Start Num: 11
Candidate Starts for YesChef_51:
(9, 36918), (Start: 11 @36951 has 49 MA's),