



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 291145 Report

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

Pham number 291145 has 67 members, 16 are drafts.

Phages represented in each track:

- Track 1 : ThursdayNight_45
- Track 2 : DrManhattan_41
- Track 3 : Tuck_45
- Track 4 : IttyBittyPiggy_42
- Track 5 : Janeemi_44
- Track 6 : MissSwiss_42, Amyev_41
- Track 7 : Adumb2043_39
- Track 8 : Ascela_42, Iter_42
- Track 9 : JohnDoe_42, ObiToo_47
- Track 10 : Tbone_41, Kaylissa_43
- Track 11 : JuneStar_43
- Track 12 : Powerpuff_44, YesChef_42, Flutur_41, Tutumahutu_43
- Track 13 : VResidence_42
- Track 14 : Joemato_42
- Track 15 : Lizalica_40, Tallboi_41
- Track 16 : Phives_44
- Track 17 : Simpson_44
- Track 18 : Berrie_43
- Track 19 : Community_44
- Track 20 : Cassia_41, Pixelle_42, Pumpkins_41
- Track 21 : Adolin_41
- Track 22 : TforTroy_43
- Track 23 : AEgle_38
- Track 24 : AGrandiflora_43, Cyan_42
- Track 25 : Crewmate_47
- Track 26 : Warda_42
- Track 27 : Reedo_41
- Track 28 : Turab_39, Amploria_40
- Track 29 : Tian_40
- Track 30 : Nitro_41
- Track 31 : IUFootball_43, Liebe_43, Maureen_43
- Track 32 : JasmineDragon_46, ShakeltOph_46, MiniMommy_45
- Track 33 : Emotion_47
- Track 34 : JohnThicc_49, FiveHead_50
- Track 35 : LadyAstra_49, Origami_48
- Track 36 : Jankie_41
- Track 37 : GrimEater_39

- Track 38 : MissDaisy_77
- Track 39 : Miryou_35, Guillsminger_35, Gengar_35, SoSeph_35, OkiRoe_35, Feyre_35, Heftyboy_35, Leston_35, Paola_35
- Track 40 : Thyatira_35
- Track 41 : Waterfoul_35

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

The start number called the most often in the published annotations is 4, it was called in 35 of the 51 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adolin_41, Adumb2043_39, Amyev_41, Ascela_42, Berrie_43, Cassia_41, DrManhattan_41, Emotion_47, Flutur_41, IUFootball_43, Iter_42, Janeemi_44, JasmineDragon_46, Joemato_42, JohnDoe_42, JuneStar_43, Kaylissa_43, Liebe_43, Lizalica_40, Maureen_43, MiniMommy_45, MissSwiss_42, Nitro_41, ObiToo_47, Phives_44, Pixelle_42, Powerpuff_44, Pumpkins_41, Reedo_41, ShakeltOph_46, Tallboi_41, Tbone_41, TforTroy_43, Tutumahutu_43, VResidence_42, Warda_42, YesChef_42,

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

- AEgle_38, AGrandiflora_43, Amploria_40, Community_44, Crewmate_47, Cyan_42, FiveHead_50, GrimEater_39, IttyBittyPiggy_42, Jankie_41, JohnThicc_49, LadyAstra_49, Origami_48, Simpson_44, Tian_40, Tuck_45, Turab_39,

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

- Feyre_35, Gengar_35, Guillsminger_35, Heftyboy_35, Leston_35, Miryou_35, MissDaisy_77, OkiRoe_35, Paola_35, SoSeph_35, ThursdayNight_45, Thyatira_35, Waterfoul_35,

Summary by start number:

Start 4:

- Found in 54 of 67 (80.6%) of genes in pham
- Manual Annotations of this start: 35 of 51
- Called 68.5% of time when present
- Phage (with cluster) where this start called: Adolin_41 (AZ1), Adumb2043_39 (AZ1), Amyev_41 (AZ1), Ascela_42 (AZ1), Berrie_43 (AZ1), Cassia_41 (AZ1), DrManhattan_41 (AZ1), Emotion_47 (AZ4), Flutur_41 (AZ), IUFootball_43 (AZ2), Iter_42 (AZ1), Janeemi_44 (AZ1), JasmineDragon_46 (AZ4), Joemato_42 (AZ1), JohnDoe_42 (AZ1), JuneStar_43 (AZ1), Kaylissa_43 (AZ1), Liebe_43 (AZ2), Lizalica_40 (AZ1), Maureen_43 (AZ2), MiniMommy_45 (AZ4), MissSwiss_42 (AZ1), Nitro_41 (AZ1), ObiToo_47 (AZ1), Phives_44 (AZ1), Pixelle_42 (AZ1), Powerpuff_44 (AZ1), Pumpkins_41 (AZ1), Reedo_41 (AZ1), ShakeltOph_46 (AZ4), Tallboi_41 (AZ1), Tbone_41 (AZ1), TforTroy_43 (AZ1), Tutumahutu_43 (AZ1), VResidence_42 (AZ1), Warda_42 (AZ1), YesChef_42 (AZ1),

Start 7:

- Found in 67 of 67 (100.0%) of genes in pham
- Manual Annotations of this start: 16 of 51

- Called 40.3% of time when present
- Phage (with cluster) where this start called: AGrandiflora_43 (AZ1), Amploria_40 (AZ1), Community_44 (AZ1), Crewmate_47 (AZ1), Cyan_42 (AZ1), Feyre_35 (K5), FiveHead_50 (AZ4), Gengar_35 (K5), GrimEater_39 (FP), Guillsminger_35 (K5), Heftyboy_35 (K5), IttyBittyPiggy_42 (AZ1), Jankie_41 (FP), JohnThicc_49 (AZ4), LadyAstra_49 (AZ4), Leston_35 (K5), Miryou_35 (K5), MissDaisy_77 (K4), OkiRoe_35 (K5), Origami_48 (AZ4), Paola_35 (K5), Simpson_44 (AZ1), SoSeph_35 (K5), Thyatira_35 (K5), Tuck_45 (AZ1), Turab_39 (AZ1), Waterfoul_35 (K5),

Start 8:

- Found in 20 of 67 (29.9%) of genes in pham
- No Manual Annotations of this start.
- Called 15.0% of time when present
- Phage (with cluster) where this start called: AEgle_38 (AZ1), ThursdayNight_45 (AZ), Tian_40 (AZ1),

Summary by clusters:

There are 7 clusters represented in this pham: FP, K5, K4, AZ1, AZ2, AZ, AZ4,

Info for manual annotations of cluster AZ1:

- Start number 4 was manually annotated 29 times for cluster AZ1.
- Start number 7 was manually annotated 4 times for cluster AZ1.

Info for manual annotations of cluster AZ2:

- Start number 4 was manually annotated 2 times for cluster AZ2.

Info for manual annotations of cluster AZ4:

- Start number 4 was manually annotated 4 times for cluster AZ4.

Info for manual annotations of cluster K4:

- Start number 7 was manually annotated 1 time for cluster K4.

Info for manual annotations of cluster K5:

- Start number 7 was manually annotated 11 times for cluster K5.

Gene Information:

Gene: AEgle_38 Start: 30681, Stop: 30833, Start Num: 8

Candidate Starts for AEgle_38:

(Start: 4 @30651 has 35 MA's), (Start: 7 @30666 has 16 MA's), (8, 30681),

Gene: AGrandiflora_43 Start: 31946, Stop: 32116, Start Num: 7

Candidate Starts for AGrandiflora_43:

(Start: 4 @31931 has 35 MA's), (Start: 7 @31946 has 16 MA's), (15, 32060),

Gene: Adolin_41 Start: 29698, Stop: 29877, Start Num: 4

Candidate Starts for Adolin_41:

(Start: 4 @29698 has 35 MA's), (Start: 7 @29704 has 16 MA's), (8, 29719), (15, 29818),

Gene: Adumb2043_39 Start: 30670, Stop: 30852, Start Num: 4
Candidate Starts for Adumb2043_39:
(Start: 4 @30670 has 35 MA's), (Start: 7 @30685 has 16 MA's), (8, 30700),

Gene: Amploria_40 Start: 30868, Stop: 31035, Start Num: 7
Candidate Starts for Amploria_40:
(Start: 4 @30853 has 35 MA's), (Start: 7 @30868 has 16 MA's), (8, 30883),

Gene: Amyev_41 Start: 32225, Stop: 32410, Start Num: 4
Candidate Starts for Amyev_41:
(Start: 4 @32225 has 35 MA's), (Start: 7 @32240 has 16 MA's), (8, 32255),

Gene: Ascela_42 Start: 31469, Stop: 31672, Start Num: 4
Candidate Starts for Ascela_42:
(Start: 4 @31469 has 35 MA's), (Start: 7 @31487 has 16 MA's),

Gene: Berrie_43 Start: 32374, Stop: 32559, Start Num: 4
Candidate Starts for Berrie_43:
(Start: 4 @32374 has 35 MA's), (Start: 7 @32389 has 16 MA's),

Gene: Cassia_41 Start: 31213, Stop: 31389, Start Num: 4
Candidate Starts for Cassia_41:
(Start: 4 @31213 has 35 MA's), (Start: 7 @31228 has 16 MA's), (15, 31342),

Gene: Community_44 Start: 33211, Stop: 33372, Start Num: 7
Candidate Starts for Community_44:
(1, 32278), (2, 32350), (Start: 4 @33196 has 35 MA's), (Start: 7 @33211 has 16 MA's),

Gene: Crewmate_47 Start: 31902, Stop: 32063, Start Num: 7
Candidate Starts for Crewmate_47:
(1, 30969), (2, 31041), (Start: 4 @31887 has 35 MA's), (Start: 7 @31902 has 16 MA's), (15, 32016),

Gene: Cyan_42 Start: 31554, Stop: 31724, Start Num: 7
Candidate Starts for Cyan_42:
(Start: 4 @31539 has 35 MA's), (Start: 7 @31554 has 16 MA's), (15, 31668),

Gene: DrManhattan_41 Start: 29689, Stop: 29880, Start Num: 4
Candidate Starts for DrManhattan_41:
(Start: 4 @29689 has 35 MA's), (Start: 7 @29704 has 16 MA's), (15, 29818),

Gene: Emotion_47 Start: 33180, Stop: 33395, Start Num: 4
Candidate Starts for Emotion_47:
(3, 33177), (Start: 4 @33180 has 35 MA's), (Start: 7 @33195 has 16 MA's),

Gene: Feyre_35 Start: 30060, Stop: 30221, Start Num: 7
Candidate Starts for Feyre_35:
(Start: 7 @30060 has 16 MA's), (8, 30075), (11, 30120), (12, 30123), (19, 30201),

Gene: FiveHead_50 Start: 32457, Stop: 32633, Start Num: 7
Candidate Starts for FiveHead_50:
(Start: 4 @32439 has 35 MA's), (Start: 7 @32457 has 16 MA's),

Gene: Flutur_41 Start: 31796, Stop: 31981, Start Num: 4
Candidate Starts for Flutur_41:
(Start: 4 @31796 has 35 MA's), (Start: 7 @31811 has 16 MA's), (15, 31925),

Gene: Gengar_35 Start: 30170, Stop: 30331, Start Num: 7
Candidate Starts for Gengar_35:
(Start: 7 @30170 has 16 MA's), (8, 30185), (11, 30230), (12, 30233), (19, 30311),

Gene: GrimEater_39 Start: 29906, Stop: 30073, Start Num: 7
Candidate Starts for GrimEater_39:
(3, 29888), (Start: 4 @29891 has 35 MA's), (Start: 7 @29906 has 16 MA's), (14, 29996),

Gene: Guillsminger_35 Start: 30141, Stop: 30302, Start Num: 7
Candidate Starts for Guillsminger_35:
(Start: 7 @30141 has 16 MA's), (8, 30156), (11, 30201), (12, 30204), (19, 30282),

Gene: Heftyboy_35 Start: 30287, Stop: 30448, Start Num: 7
Candidate Starts for Heftyboy_35:
(Start: 7 @30287 has 16 MA's), (8, 30302), (11, 30347), (12, 30350), (19, 30428),

Gene: IUFootball_43 Start: 33220, Stop: 33411, Start Num: 4
Candidate Starts for IUFootball_43:
(Start: 4 @33220 has 35 MA's), (Start: 7 @33235 has 16 MA's),

Gene: Iter_42 Start: 31465, Stop: 31668, Start Num: 4
Candidate Starts for Iter_42:
(Start: 4 @31465 has 35 MA's), (Start: 7 @31483 has 16 MA's),

Gene: IttyBittyPiggy_42 Start: 31021, Stop: 31182, Start Num: 7
Candidate Starts for IttyBittyPiggy_42:
(Start: 4 @31006 has 35 MA's), (Start: 7 @31021 has 16 MA's), (15, 31135),

Gene: Janeemi_44 Start: 33187, Stop: 33369, Start Num: 4
Candidate Starts for Janeemi_44:
(Start: 4 @33187 has 35 MA's), (Start: 7 @33202 has 16 MA's),

Gene: Jankie_41 Start: 30083, Stop: 30250, Start Num: 7
Candidate Starts for Jankie_41:
(3, 30065), (Start: 4 @30068 has 35 MA's), (Start: 7 @30083 has 16 MA's), (14, 30173),

Gene: JasmineDragon_46 Start: 32416, Stop: 32613, Start Num: 4
Candidate Starts for JasmineDragon_46:
(2, 31570), (Start: 4 @32416 has 35 MA's), (Start: 7 @32434 has 16 MA's),

Gene: Joemato_42 Start: 31566, Stop: 31751, Start Num: 4
Candidate Starts for Joemato_42:
(Start: 4 @31566 has 35 MA's), (Start: 7 @31581 has 16 MA's), (15, 31695), (18, 31728),

Gene: JohnDoe_42 Start: 31562, Stop: 31747, Start Num: 4
Candidate Starts for JohnDoe_42:
(Start: 4 @31562 has 35 MA's), (Start: 7 @31577 has 16 MA's), (15, 31691),

Gene: JohnThicc_49 Start: 32457, Stop: 32633, Start Num: 7

Candidate Starts for JohnThicc_49:
(Start: 4 @32439 has 35 MA's), (Start: 7 @32457 has 16 MA's),

Gene: JuneStar_43 Start: 33108, Stop: 33290, Start Num: 4
Candidate Starts for JuneStar_43:
(Start: 4 @33108 has 35 MA's), (Start: 7 @33123 has 16 MA's), (8, 33138),

Gene: Kaylissa_43 Start: 31952, Stop: 32137, Start Num: 4
Candidate Starts for Kaylissa_43:
(Start: 4 @31952 has 35 MA's), (Start: 7 @31967 has 16 MA's), (15, 32081),

Gene: LadyAstra_49 Start: 32557, Stop: 32733, Start Num: 7
Candidate Starts for LadyAstra_49:
(Start: 4 @32539 has 35 MA's), (Start: 7 @32557 has 16 MA's),

Gene: Leston_35 Start: 30271, Stop: 30432, Start Num: 7
Candidate Starts for Leston_35:
(Start: 7 @30271 has 16 MA's), (8, 30286), (11, 30331), (12, 30334), (19, 30412),

Gene: Liebe_43 Start: 33220, Stop: 33411, Start Num: 4
Candidate Starts for Liebe_43:
(Start: 4 @33220 has 35 MA's), (Start: 7 @33235 has 16 MA's),

Gene: Lizalica_40 Start: 30647, Stop: 30835, Start Num: 4
Candidate Starts for Lizalica_40:
(Start: 4 @30647 has 35 MA's), (Start: 7 @30662 has 16 MA's), (15, 30776),

Gene: Maureen_43 Start: 33220, Stop: 33411, Start Num: 4
Candidate Starts for Maureen_43:
(Start: 4 @33220 has 35 MA's), (Start: 7 @33235 has 16 MA's),

Gene: MiniMommy_45 Start: 32417, Stop: 32614, Start Num: 4
Candidate Starts for MiniMommy_45:
(2, 31571), (Start: 4 @32417 has 35 MA's), (Start: 7 @32435 has 16 MA's),

Gene: Miryou_35 Start: 30126, Stop: 30287, Start Num: 7
Candidate Starts for Miryou_35:
(Start: 7 @30126 has 16 MA's), (8, 30141), (11, 30186), (12, 30189), (19, 30267),

Gene: MissDaisy_77 Start: 48998, Stop: 49168, Start Num: 7
Candidate Starts for MissDaisy_77:
(5, 48983), (Start: 7 @48998 has 16 MA's), (11, 49058), (16, 49124), (19, 49139),

Gene: MissSwiss_42 Start: 30190, Stop: 30375, Start Num: 4
Candidate Starts for MissSwiss_42:
(Start: 4 @30190 has 35 MA's), (Start: 7 @30205 has 16 MA's), (8, 30220),

Gene: Nitro_41 Start: 32074, Stop: 32274, Start Num: 4
Candidate Starts for Nitro_41:
(3, 32071), (Start: 4 @32074 has 35 MA's), (Start: 7 @32089 has 16 MA's),

Gene: ObiToo_47 Start: 32330, Stop: 32506, Start Num: 4
Candidate Starts for ObiToo_47:

(Start: 4 @32330 has 35 MA's), (Start: 7 @32345 has 16 MA's), (15, 32459),

Gene: OkiRoe_35 Start: 30143, Stop: 30304, Start Num: 7

Candidate Starts for OkiRoe_35:

(Start: 7 @30143 has 16 MA's), (8, 30158), (11, 30203), (12, 30206), (19, 30284),

Gene: Origami_48 Start: 32349, Stop: 32525, Start Num: 7

Candidate Starts for Origami_48:

(Start: 4 @32331 has 35 MA's), (Start: 7 @32349 has 16 MA's),

Gene: Paola_35 Start: 30141, Stop: 30302, Start Num: 7

Candidate Starts for Paola_35:

(Start: 7 @30141 has 16 MA's), (8, 30156), (11, 30201), (12, 30204), (19, 30282),

Gene: Phives_44 Start: 33024, Stop: 33200, Start Num: 4

Candidate Starts for Phives_44:

(Start: 4 @33024 has 35 MA's), (Start: 7 @33039 has 16 MA's),

Gene: Pixelle_42 Start: 32248, Stop: 32436, Start Num: 4

Candidate Starts for Pixelle_42:

(Start: 4 @32248 has 35 MA's), (Start: 7 @32263 has 16 MA's), (15, 32377),

Gene: Powerpuff_44 Start: 32654, Stop: 32839, Start Num: 4

Candidate Starts for Powerpuff_44:

(Start: 4 @32654 has 35 MA's), (Start: 7 @32669 has 16 MA's), (15, 32783),

Gene: Pumpkins_41 Start: 31677, Stop: 31853, Start Num: 4

Candidate Starts for Pumpkins_41:

(Start: 4 @31677 has 35 MA's), (Start: 7 @31692 has 16 MA's), (15, 31806),

Gene: Reedo_41 Start: 29794, Stop: 29988, Start Num: 4

Candidate Starts for Reedo_41:

(Start: 4 @29794 has 35 MA's), (Start: 7 @29800 has 16 MA's), (15, 29914),

Gene: ShakeltOph_46 Start: 32416, Stop: 32613, Start Num: 4

Candidate Starts for ShakeltOph_46:

(2, 31570), (Start: 4 @32416 has 35 MA's), (Start: 7 @32434 has 16 MA's),

Gene: Simpson_44 Start: 31585, Stop: 31755, Start Num: 7

Candidate Starts for Simpson_44:

(Start: 4 @31570 has 35 MA's), (Start: 7 @31585 has 16 MA's), (15, 31699), (18, 31732),

Gene: SoSeph_35 Start: 30287, Stop: 30448, Start Num: 7

Candidate Starts for SoSeph_35:

(Start: 7 @30287 has 16 MA's), (8, 30302), (11, 30347), (12, 30350), (19, 30428),

Gene: Tallboi_41 Start: 32404, Stop: 32592, Start Num: 4

Candidate Starts for Tallboi_41:

(Start: 4 @32404 has 35 MA's), (Start: 7 @32419 has 16 MA's), (15, 32533),

Gene: Tbone_41 Start: 31365, Stop: 31553, Start Num: 4

Candidate Starts for Tbone_41:

(Start: 4 @31365 has 35 MA's), (Start: 7 @31380 has 16 MA's), (15, 31494),

Gene: TforTroy_43 Start: 31539, Stop: 31715, Start Num: 4
Candidate Starts for TforTroy_43:
(Start: 4 @31539 has 35 MA's), (Start: 7 @31554 has 16 MA's), (10, 31587),

Gene: ThursdayNight_45 Start: 32357, Stop: 32515, Start Num: 8
Candidate Starts for ThursdayNight_45:
(3, 32324), (Start: 7 @32342 has 16 MA's), (8, 32357),

Gene: Thyatira_35 Start: 30141, Stop: 30302, Start Num: 7
Candidate Starts for Thyatira_35:
(Start: 7 @30141 has 16 MA's), (8, 30156), (11, 30201), (12, 30204), (19, 30282),

Gene: Tian_40 Start: 32255, Stop: 32410, Start Num: 8
Candidate Starts for Tian_40:
(Start: 4 @32225 has 35 MA's), (Start: 7 @32240 has 16 MA's), (8, 32255),

Gene: Tuck_45 Start: 33591, Stop: 33752, Start Num: 7
Candidate Starts for Tuck_45:
(Start: 4 @33576 has 35 MA's), (Start: 7 @33591 has 16 MA's),

Gene: Turab_39 Start: 30685, Stop: 30852, Start Num: 7
Candidate Starts for Turab_39:
(Start: 4 @30670 has 35 MA's), (Start: 7 @30685 has 16 MA's), (8, 30700),

Gene: Tutumahutu_43 Start: 31537, Stop: 31722, Start Num: 4
Candidate Starts for Tutumahutu_43:
(Start: 4 @31537 has 35 MA's), (Start: 7 @31552 has 16 MA's), (15, 31666),

Gene: VResidence_42 Start: 31016, Stop: 31201, Start Num: 4
Candidate Starts for VResidence_42:
(3, 31013), (Start: 4 @31016 has 35 MA's), (Start: 7 @31031 has 16 MA's),

Gene: Warda_42 Start: 31541, Stop: 31729, Start Num: 4
Candidate Starts for Warda_42:
(Start: 4 @31541 has 35 MA's), (Start: 7 @31556 has 16 MA's), (15, 31670),

Gene: Waterfoul_35 Start: 30197, Stop: 30364, Start Num: 7
Candidate Starts for Waterfoul_35:
(6, 30191), (Start: 7 @30197 has 16 MA's), (9, 30215), (11, 30257), (13, 30269), (16, 30329), (17, 30332), (19, 30344),

Gene: YesChef_42 Start: 31513, Stop: 31698, Start Num: 4
Candidate Starts for YesChef_42:
(Start: 4 @31513 has 35 MA's), (Start: 7 @31528 has 16 MA's), (15, 31642),