

Pham 214323



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 214323 Report

This analysis was run 02/22/25 on database version 588.

Pham number 214323 has 58 members, 13 are drafts.

Phages represented in each track:

- Track 1 : Soondubu_61, Exile_59
- Track 2 : Subaru_67
- Track 3 : Tutumahutu_69, Powerpuff_69, Joemato_69, YesChef_67, Lego_67, AGrandiflora_69, Cyan_68
- Track 4 : Mudpuppy_66, Warda_68
- Track 5 : Crewmate_72, ObiToo_72
- Track 6 : Kaylissa_69
- Track 7 : Reedo_67
- Track 8 : Shaffner_64
- Track 9 : VResidence_69
- Track 10 : Elezi_66, Jstan_68
- Track 11 : Asa16_67, Eraser_67, Niobe_67, London_67
- Track 12 : Tbone_67
- Track 13 : Wildwest_64
- Track 14 : Simpson_73, JohnDoe_68
- Track 15 : Yang_66
- Track 16 : JuneStar_66
- Track 17 : Tallboi_67
- Track 18 : DrSierra_65
- Track 19 : Lizalica_67
- Track 20 : MaGuCo_61
- Track 21 : Liebe_67, Maureen_67
- Track 22 : Tweety19_68, Snek_67
- Track 23 : Emotion_70
- Track 24 : Ashes_60, RockScotty_62, Gumpizza_63, SpecialK_60, Beaupre_63, Halsey_60, Stuu_67, Mysterium_59, Moss_60
- Track 25 : Sabourin_65, Kalimba_60, Cappuccino_60, Donkey_60, Gambol_61, Sooty_60
- Track 26 : Giorgio_63
- Track 27 : CallinAllBarbz_60
- Track 28 : Jankie_65
- Track 29 : BaileyBlu_59

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

The start number called the most often in the published annotations is 20, it was called in 14 of the 45 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AGrandiflora_69, Cyan_68, Joemato_69, Kaylissa_69, Lego_67, Liebe_67, Lizalica_67, MaGuCo_61, Maureen_67, Mudpuppy_66, Powerpuff_69, Tbone_67, Tutumahutu_69, Warda_68, YesChef_67,

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

- JohnDoe_68, Simpson_73,

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

- Asa16_67, Ashes_60, BaileyBlu_59, Beaupre_63, CallinAllBarbz_60, Cappuccino_60, Crewmate_72, Donkey_60, DrSierra_65, Elezi_66, Emotion_70, Eraser_67, Exile_59, Gambol_61, Giorgio_63, Gumpizza_63, Halsey_60, Jankie_65, Jstan_68, JuneStar_66, Kalimba_60, London_67, Moss_60, Mysterium_59, Niobe_67, ObiToo_72, Reedo_67, RockScotty_62, Sabourin_65, Shaffner_64, Snek_67, Soondubu_61, Sooty_60, SpecialK_60, Stuu_67, Subaru_67, Tallboi_67, Tweety19_68, VResidence_69, Wildwest_64, Yang_66,

Summary by start number:

Start 14:

- Found in 17 of 58 (29.3%) of genes in pham
- No Manual Annotations of this start.
- Called 5.9% of time when present
- Phage (with cluster) where this start called: Giorgio_63 (AZ5),

Start 15:

- Found in 13 of 58 (22.4%) of genes in pham
- Manual Annotations of this start: 3 of 45
- Called 30.8% of time when present
- Phage (with cluster) where this start called: Crewmate_72 (AZ1), ObiToo_72 (AZ1), Shaffner_64 (AZ1), Yang_66 (AZ1),

Start 16:

- Found in 13 of 58 (22.4%) of genes in pham
- Manual Annotations of this start: 1 of 45
- Called 7.7% of time when present
- Phage (with cluster) where this start called: JuneStar_66 (AZ1),

Start 17:

- Found in 2 of 58 (3.4%) of genes in pham
- Manual Annotations of this start: 2 of 45
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Snek_67 (AZ3), Tweety19_68 (AZ3),

Start 18:

- Found in 24 of 58 (41.4%) of genes in pham
- Manual Annotations of this start: 8 of 45
- Called 45.8% of time when present

- Phage (with cluster) where this start called: Asa16_67 (AZ1), Elezi_66 (AZ1), Eraser_67 (AZ1), Exile_59 (AZ), JohnDoe_68 (AZ1), Jstan_68 (AZ1), London_67 (AZ1), Niobe_67 (AZ1), Simpson_73 (AZ1), Soondubu_61 (AZ), Tallboi_67 (AZ1),

Start 19:

- Found in 2 of 58 (3.4%) of genes in pham
- Manual Annotations of this start: 2 of 45
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Reedo_67 (AZ1), VResidence_69 (AZ1),

Start 20:

- Found in 17 of 58 (29.3%) of genes in pham
- Manual Annotations of this start: 14 of 45
- Called 88.2% of time when present
- Phage (with cluster) where this start called: AGrandiflora_69 (AZ1), Cyan_68 (AZ1), Joemato_69 (AZ1), Kaylissa_69 (AZ1), Lego_67 (AZ1), Liebe_67 (AZ2), Lizalica_67 (AZ1), MaGuCo_61 (AZ2), Maureen_67 (AZ2), Mudpuppy_66 (AZ1), Powerpuff_69 (AZ1), Tbone_67 (AZ1), Tutumahutu_69 (AZ1), Warda_68 (AZ1), YesChef_67 (AZ1),

Start 21:

- Found in 2 of 58 (3.4%) of genes in pham
- Manual Annotations of this start: 2 of 45
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DrSierra_65 (AZ1), Wildwest_64 (AZ1),

Start 22:

- Found in 1 of 58 (1.7%) of genes in pham
- Manual Annotations of this start: 1 of 45
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Emotion_70 (AZ4),

Start 23:

- Found in 3 of 58 (5.2%) of genes in pham
- Manual Annotations of this start: 2 of 45
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BaileyBlu_59 (FP), CallinAllBarbz_60 (FP), Jankie_65 (FP),

Start 24:

- Found in 16 of 58 (27.6%) of genes in pham
- Manual Annotations of this start: 10 of 45
- Called 93.8% of time when present
- Phage (with cluster) where this start called: Ashes_60 (AZ5), Beaupre_63 (AZ5), Cappuccino_60 (AZ5), Donkey_60 (AZ5), Gambol_61 (AZ5), Gumpizza_63 (AZ5), Halsey_60 (AZ5), Kalimba_60 (AZ5), Moss_60 (AZ5), Mysterium_59 (AZ5), RockScotty_62 (AZ5), Sabourin_65 (AZ5), Sooty_60 (AZ5), SpecialK_60 (AZ5), Stuu_67 (AZ5),

Start 25:

- Found in 3 of 58 (5.2%) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Subaru_67 (AZ),

Summary by clusters:

There are 7 clusters represented in this pham: FP, AZ, AZ1, AZ2, AZ3, AZ4, AZ5,

Info for manual annotations of cluster AZ:

- Start number 18 was manually annotated 1 time for cluster AZ.

Info for manual annotations of cluster AZ1:

- Start number 15 was manually annotated 3 times for cluster AZ1.
- Start number 16 was manually annotated 1 time for cluster AZ1.
- Start number 18 was manually annotated 7 times for cluster AZ1.
- Start number 19 was manually annotated 2 times for cluster AZ1.
- Start number 20 was manually annotated 11 times for cluster AZ1.
- Start number 21 was manually annotated 2 times for cluster AZ1.

Info for manual annotations of cluster AZ2:

- Start number 20 was manually annotated 3 times for cluster AZ2.

Info for manual annotations of cluster AZ3:

- Start number 17 was manually annotated 2 times for cluster AZ3.

Info for manual annotations of cluster AZ4:

- Start number 22 was manually annotated 1 time for cluster AZ4.

Info for manual annotations of cluster AZ5:

- Start number 24 was manually annotated 10 times for cluster AZ5.

Info for manual annotations of cluster FP:

- Start number 23 was manually annotated 2 times for cluster FP.

Gene Information:

Gene: AGrandiflora_69 Start: 42827, Stop: 43090, Start Num: 20

Candidate Starts for AGrandiflora_69:

(2, 42638), (4, 42755), (Start: 18 @42818 has 8 MA's), (Start: 20 @42827 has 14 MA's), (26, 42857), (41, 43085),

Gene: Asa16_67 Start: 42516, Stop: 42797, Start Num: 18

Candidate Starts for Asa16_67:

(Start: 15 @42504 has 3 MA's), (Start: 16 @42507 has 1 MA's), (Start: 18 @42516 has 8 MA's), (34, 42744), (38, 42792),

Gene: Ashes_60 Start: 38817, Stop: 39089, Start Num: 24

Candidate Starts for Ashes_60:

(14, 38760), (Start: 24 @38817 has 10 MA's),

Gene: BaileyBlu_59 Start: 39085, Stop: 39360, Start Num: 23

Candidate Starts for BaileyBlu_59:

(3, 38989), (4, 38992), (5, 39001), (9, 39028), (14, 39046), (Start: 23 @39085 has 2 MA's), (27, 39118),

Gene: Beaupre_63 Start: 38627, Stop: 38899, Start Num: 24
Candidate Starts for Beaupre_63:
(14, 38570), (Start: 24 @38627 has 10 MA's),

Gene: CallinAllBarbz_60 Start: 39859, Stop: 40101, Start Num: 23
Candidate Starts for CallinAllBarbz_60:
(5, 39775), (9, 39802), (Start: 15 @39826 has 3 MA's), (Start: 23 @39859 has 2 MA's), (27, 39892),

Gene: Cappuccino_60 Start: 38667, Stop: 38939, Start Num: 24
Candidate Starts for Cappuccino_60:
(8, 38586), (12, 38604), (14, 38610), (Start: 24 @38667 has 10 MA's), (31, 38817),

Gene: Crewmate_72 Start: 43229, Stop: 43537, Start Num: 15
Candidate Starts for Crewmate_72:
(2, 43046), (7, 43190), (Start: 15 @43229 has 3 MA's), (Start: 16 @43232 has 1 MA's), (26, 43268),
(43, 43502), (44, 43532),

Gene: Cyan_68 Start: 42571, Stop: 42834, Start Num: 20
Candidate Starts for Cyan_68:
(2, 42382), (4, 42499), (Start: 18 @42562 has 8 MA's), (Start: 20 @42571 has 14 MA's), (26, 42601),
(41, 42829),

Gene: Donkey_60 Start: 38657, Stop: 38929, Start Num: 24
Candidate Starts for Donkey_60:
(8, 38576), (12, 38594), (14, 38600), (Start: 24 @38657 has 10 MA's), (31, 38807),

Gene: DrSierra_65 Start: 41681, Stop: 41947, Start Num: 21
Candidate Starts for DrSierra_65:
(Start: 21 @41681 has 2 MA's), (41, 41942),

Gene: Elezi_66 Start: 42273, Stop: 42554, Start Num: 18
Candidate Starts for Elezi_66:
(4, 42198), (Start: 15 @42261 has 3 MA's), (Start: 16 @42264 has 1 MA's), (Start: 18 @42273 has 8 MA's), (25, 42315), (34, 42501), (38, 42549),

Gene: Emotion_70 Start: 43720, Stop: 43983, Start Num: 22
Candidate Starts for Emotion_70:
(Start: 22 @43720 has 1 MA's), (40, 43978),

Gene: Eraser_67 Start: 42523, Stop: 42804, Start Num: 18
Candidate Starts for Eraser_67:
(Start: 15 @42511 has 3 MA's), (Start: 16 @42514 has 1 MA's), (Start: 18 @42523 has 8 MA's), (34, 42751), (38, 42799),

Gene: Exile_59 Start: 43115, Stop: 43405, Start Num: 18
Candidate Starts for Exile_59:
(Start: 18 @43115 has 8 MA's), (32, 43295),

Gene: Gambol_61 Start: 38676, Stop: 38948, Start Num: 24
Candidate Starts for Gambol_61:
(8, 38595), (12, 38613), (14, 38619), (Start: 24 @38676 has 10 MA's), (31, 38826),

Gene: Giorgio_63 Start: 38553, Stop: 38882, Start Num: 14

Candidate Starts for Giorgio_63:
(14, 38553), (Start: 24 @38610 has 10 MA's),

Gene: Gumpizza_63 Start: 38566, Stop: 38838, Start Num: 24
Candidate Starts for Gumpizza_63:
(14, 38509), (Start: 24 @38566 has 10 MA's),

Gene: Halsey_60 Start: 38807, Stop: 39079, Start Num: 24
Candidate Starts for Halsey_60:
(14, 38750), (Start: 24 @38807 has 10 MA's),

Gene: Jankie_65 Start: 40521, Stop: 40793, Start Num: 23
Candidate Starts for Jankie_65:
(10, 40461), (13, 40479), (Start: 23 @40521 has 2 MA's),

Gene: Joemato_69 Start: 42748, Stop: 43011, Start Num: 20
Candidate Starts for Joemato_69:
(2, 42559), (4, 42676), (Start: 18 @42739 has 8 MA's), (Start: 20 @42748 has 14 MA's), (26, 42778),
(41, 43006),

Gene: JohnDoe_68 Start: 42656, Stop: 42928, Start Num: 18
Candidate Starts for JohnDoe_68:
(2, 42476), (4, 42593), (Start: 18 @42656 has 8 MA's), (Start: 20 @42665 has 14 MA's), (26, 42695),
(41, 42923),

Gene: Jstan_68 Start: 42277, Stop: 42558, Start Num: 18
Candidate Starts for Jstan_68:
(4, 42202), (Start: 15 @42265 has 3 MA's), (Start: 16 @42268 has 1 MA's), (Start: 18 @42277 has 8
MA's), (25, 42319), (34, 42505), (38, 42553),

Gene: JuneStar_66 Start: 43398, Stop: 43697, Start Num: 16
Candidate Starts for JuneStar_66:
(Start: 15 @43395 has 3 MA's), (Start: 16 @43398 has 1 MA's), (37, 43635), (42, 43665), (44, 43692),

Gene: Kalimba_60 Start: 38654, Stop: 38926, Start Num: 24
Candidate Starts for Kalimba_60:
(8, 38573), (12, 38591), (14, 38597), (Start: 24 @38654 has 10 MA's), (31, 38804),

Gene: Kaylissa_69 Start: 43024, Stop: 43287, Start Num: 20
Candidate Starts for Kaylissa_69:
(4, 42952), (Start: 18 @43015 has 8 MA's), (Start: 20 @43024 has 14 MA's), (26, 43054), (41, 43282),

Gene: Lego_67 Start: 42346, Stop: 42609, Start Num: 20
Candidate Starts for Lego_67:
(2, 42157), (4, 42274), (Start: 18 @42337 has 8 MA's), (Start: 20 @42346 has 14 MA's), (26, 42376),
(41, 42604),

Gene: Liebe_67 Start: 44554, Stop: 44811, Start Num: 20
Candidate Starts for Liebe_67:
(Start: 20 @44554 has 14 MA's), (35, 44767), (36, 44785), (39, 44806),

Gene: Lizalica_67 Start: 41945, Stop: 42199, Start Num: 20
Candidate Starts for Lizalica_67:

(1, 41612), (2, 41753), (4, 41873), (Start: 18 @41936 has 8 MA's), (Start: 20 @41945 has 14 MA's), (26, 41978), (34, 42146), (38, 42194),

Gene: London_67 Start: 42514, Stop: 42795, Start Num: 18

Candidate Starts for London_67:

(Start: 15 @42502 has 3 MA's), (Start: 16 @42505 has 1 MA's), (Start: 18 @42514 has 8 MA's), (34, 42742), (38, 42790),

Gene: MaGuCo_61 Start: 42675, Stop: 42932, Start Num: 20

Candidate Starts for MaGuCo_61:

(Start: 20 @42675 has 14 MA's), (36, 42906), (39, 42927),

Gene: Maureen_67 Start: 44553, Stop: 44810, Start Num: 20

Candidate Starts for Maureen_67:

(Start: 20 @44553 has 14 MA's), (35, 44766), (36, 44784), (39, 44805),

Gene: Moss_60 Start: 38754, Stop: 39026, Start Num: 24

Candidate Starts for Moss_60:

(14, 38697), (Start: 24 @38754 has 10 MA's),

Gene: Mudpuppy_66 Start: 42711, Stop: 42965, Start Num: 20

Candidate Starts for Mudpuppy_66:

(1, 42384), (2, 42522), (4, 42639), (Start: 18 @42702 has 8 MA's), (Start: 20 @42711 has 14 MA's), (26, 42744), (38, 42960),

Gene: Mysterium_59 Start: 38595, Stop: 38867, Start Num: 24

Candidate Starts for Mysterium_59:

(14, 38538), (Start: 24 @38595 has 10 MA's),

Gene: Niobe_67 Start: 42517, Stop: 42798, Start Num: 18

Candidate Starts for Niobe_67:

(Start: 15 @42505 has 3 MA's), (Start: 16 @42508 has 1 MA's), (Start: 18 @42517 has 8 MA's), (34, 42745), (38, 42793),

Gene: ObiToo_72 Start: 42845, Stop: 43153, Start Num: 15

Candidate Starts for ObiToo_72:

(2, 42662), (7, 42806), (Start: 15 @42845 has 3 MA's), (Start: 16 @42848 has 1 MA's), (26, 42884), (43, 43118), (44, 43148),

Gene: Powerpuff_69 Start: 43550, Stop: 43813, Start Num: 20

Candidate Starts for Powerpuff_69:

(2, 43361), (4, 43478), (Start: 18 @43541 has 8 MA's), (Start: 20 @43550 has 14 MA's), (26, 43580), (41, 43808),

Gene: Reedo_67 Start: 40786, Stop: 41046, Start Num: 19

Candidate Starts for Reedo_67:

(6, 40723), (11, 40747), (Start: 19 @40786 has 2 MA's), (35, 41002), (40, 41041),

Gene: RockScotty_62 Start: 38590, Stop: 38862, Start Num: 24

Candidate Starts for RockScotty_62:

(14, 38533), (Start: 24 @38590 has 10 MA's),

Gene: Sabourin_65 Start: 38655, Stop: 38927, Start Num: 24

Candidate Starts for Sabourin_65:

(8, 38574), (12, 38592), (14, 38598), (Start: 24 @38655 has 10 MA's), (31, 38805),

Gene: Shaffner_64 Start: 42471, Stop: 42779, Start Num: 15

Candidate Starts for Shaffner_64:

(Start: 15 @42471 has 3 MA's), (Start: 16 @42474 has 1 MA's), (43, 42744), (44, 42774),

Gene: Simpson_73 Start: 42743, Stop: 43015, Start Num: 18

Candidate Starts for Simpson_73:

(2, 42563), (4, 42680), (Start: 18 @42743 has 8 MA's), (Start: 20 @42752 has 14 MA's), (26, 42782), (41, 43010),

Gene: Snek_67 Start: 39932, Stop: 40216, Start Num: 17

Candidate Starts for Snek_67:

(Start: 17 @39932 has 2 MA's), (29, 40037), (33, 40124), (41, 40211),

Gene: Soondubu_61 Start: 44124, Stop: 44414, Start Num: 18

Candidate Starts for Soondubu_61:

(Start: 18 @44124 has 8 MA's), (32, 44304),

Gene: Sooty_60 Start: 38669, Stop: 38941, Start Num: 24

Candidate Starts for Sooty_60:

(8, 38588), (12, 38606), (14, 38612), (Start: 24 @38669 has 10 MA's), (31, 38819),

Gene: SpecialK_60 Start: 38663, Stop: 38935, Start Num: 24

Candidate Starts for SpecialK_60:

(14, 38606), (Start: 24 @38663 has 10 MA's),

Gene: Stuu_67 Start: 38772, Stop: 39044, Start Num: 24

Candidate Starts for Stuu_67:

(14, 38715), (Start: 24 @38772 has 10 MA's),

Gene: Subaru_67 Start: 42315, Stop: 42554, Start Num: 25

Candidate Starts for Subaru_67:

(4, 42198), (Start: 15 @42261 has 3 MA's), (Start: 16 @42264 has 1 MA's), (Start: 18 @42273 has 8 MA's), (25, 42315), (34, 42501), (38, 42549),

Gene: Tallboi_67 Start: 42522, Stop: 42788, Start Num: 18

Candidate Starts for Tallboi_67:

(Start: 16 @42513 has 1 MA's), (Start: 18 @42522 has 8 MA's), (30, 42687), (40, 42783),

Gene: Tbone_67 Start: 42998, Stop: 43252, Start Num: 20

Candidate Starts for Tbone_67:

(2, 42809), (4, 42926), (Start: 18 @42989 has 8 MA's), (Start: 20 @42998 has 14 MA's), (26, 43031), (38, 43247),

Gene: Tutumahutu_69 Start: 42593, Stop: 42856, Start Num: 20

Candidate Starts for Tutumahutu_69:

(2, 42404), (4, 42521), (Start: 18 @42584 has 8 MA's), (Start: 20 @42593 has 14 MA's), (26, 42623), (41, 42851),

Gene: Tweety19_68 Start: 39933, Stop: 40217, Start Num: 17

Candidate Starts for Tweety19_68:

(Start: 17 @39933 has 2 MA's), (29, 40038), (33, 40125), (41, 40212),

Gene: VResidence_69 Start: 40961, Stop: 41224, Start Num: 19

Candidate Starts for VResidence_69:

(Start: 19 @40961 has 2 MA's), (28, 41036),

Gene: Warda_68 Start: 42724, Stop: 42978, Start Num: 20

Candidate Starts for Warda_68:

(1, 42397), (2, 42535), (4, 42652), (Start: 18 @42715 has 8 MA's), (Start: 20 @42724 has 14 MA's), (26, 42757), (38, 42973),

Gene: Wildwest_64 Start: 42676, Stop: 42942, Start Num: 21

Candidate Starts for Wildwest_64:

(6, 42613), (Start: 21 @42676 has 2 MA's), (41, 42937),

Gene: Yang_66 Start: 42085, Stop: 42387, Start Num: 15

Candidate Starts for Yang_66:

(Start: 15 @42085 has 3 MA's), (Start: 16 @42088 has 1 MA's), (37, 42325), (42, 42355), (44, 42382),

Gene: YesChef_67 Start: 42409, Stop: 42672, Start Num: 20

Candidate Starts for YesChef_67:

(2, 42220), (4, 42337), (Start: 18 @42400 has 8 MA's), (Start: 20 @42409 has 14 MA's), (26, 42439), (41, 42667),