



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 287861 Report

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

Pham number 287861 has 72 members, 11 are drafts.

Phages represented in each track:

- Track 1 : Peeb_8, ECartman_8, Hope_8, Kasen3_8, Liefie_8, Sweets_8, ShaboiShabazz_8, BruceB_8, Camri_8, Cedasite_8, Remy19_8, Plagueis_8, GoldenAsh_8, Phreak_8, Maliketh_8, Neoh_8, Gomashi_8, OctaviousRex_8, Jeilious_8, Jolene_8, Wendigo_8, Hotshotbaby7_8, Avrafan_8, Jane_8, Angel_8, Schiebel_8, Phish_8, Rattrick_8, MZKinsey_8, Periodt_8, Phloodle_8, CassieYates_8, DMoney_8, AzulaCat_8, Sizemore_8, Barkley26_8, Frosty24_8, Cherrybomb426_8, Crespo_8, Darionha_8, Olga_8, Aroostook_8, TomBrady_8, Annihilator_8, JorRay_8, ZoMa_8, Zombie_8, Marmie_8, CLED96_8, Halo_8, Gideon_8, Kareem_8, DingDing_8, Richarlison_8, BPs_8, BQuat_8, Ruriko_8, Mowgli_8, Chance64_8, PinkYoshi_8, Coleslaw_8, TinaBug_8, Jonghyun_8, LouisV14_8, Renaissance_8
- Track 2 : Rabbs_8, Sneeze_8
- Track 3 : Taheera_8, Terror_8
- Track 4 : DNAlll_008
- Track 5 : AizenPogi_8
- Track 6 : Grizzly_8

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

The start number called the most often in the published annotations is 1, it was called in 61 of the 61 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Angel_8, Annihilator_8, Aroostook_8, Avrafan_8, AzulaCat_8, BPs_8, BQuat_8, Barkley26_8, BruceB_8, CLED96_8, Camri_8, CassieYates_8, Cedasite_8, Chance64_8, Cherrybomb426_8, Coleslaw_8, Crespo_8, DMoney_8, DNAlll_008, Darionha_8, DingDing_8, ECartman_8, Frosty24_8, Gideon_8, GoldenAsh_8, Gomashi_8, Grizzly_8, Halo_8, Hope_8, Hotshotbaby7_8, Jane_8, Jeilious_8, Jolene_8, Jonghyun_8, JorRay_8, Kareem_8, Kasen3_8, Liefie_8, LouisV14_8, MZKinsey_8, Maliketh_8, Marmie_8, Mowgli_8, Neoh_8, OctaviousRex_8, Olga_8, Peeb_8, Periodt_8, Phish_8, Phloodle_8, Phreak_8, PinkYoshi_8, Plagueis_8, Rabbs_8, Rattrick_8, Remy19_8, Renaissance_8, Richarlison_8, Ruriko_8, Schiebel_8, ShaboiShabazz_8, Sizemore_8, Sneeze_8, Sweets_8, Taheera_8, Terror_8, TinaBug_8, TomBrady_8, Wendigo_8, ZoMa_8, Zombie_8,

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

- AizenPogi_8,

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

-

Summary by start number:

Start 1:

- Found in 72 of 72 (100.0%) of genes in pham
- Manual Annotations of this start: 61 of 61
- Called 98.6% of time when present
- Phage (with cluster) where this start called: Angel_8 (G1), Annihilator_8 (G1), Aroostook_8 (G1), Avrafan_8 (G1), AzulaCat_8 (G1), BPs_8 (G1), BQuat_8 (G1), Barkley26_8 (G1), BruceB_8 (G1), CLED96_8 (G1), Camri_8 (G1), CassieYates_8 (G1), Cedasite_8 (G1), Chance64_8 (G1), Cherrybomb426_8 (G1), Coleslaw_8 (G1), Crespo_8 (G1), DMoney_8 (G1), DNAIII_008 (G1), Darionha_8 (G1), DingDing_8 (G1), ECartman_8 (G1), Frosty24_8 (G1), Gideon_8 (G1), GoldenAsh_8 (G1), Gomashi_8 (G1), Grizzly_8 (G1), Halo_8 (G1), Hope_8 (G1), Hotshotbaby7_8 (G1), Jane_8 (G1), Jeilious_8 (G), Jolene_8 (G1), Jonghyun_8 (G1), JorRay_8 (G1), Kareem_8 (G1), Kasen3_8 (G1), Liefie_8 (G1), LouisV14_8 (G1), MZKinsey_8 (G1), Maliketh_8 (G1), Marmie_8 (G1), Mowgli_8 (G1), Neoh_8 (G), OctaviousRex_8 (G1), Olga_8 (G1), Peeb_8 (G1), Periodt_8 (G1), Phish_8 (G1), Phloodle_8 (G1), Phreak_8 (G1), PinkYoshi_8 (G1), Plagueis_8 (G1), Rabbs_8 (G1), Rattrick_8 (G1), Remy19_8 (G1), Renaissance_8 (G1), Richarlison_8 (G1), Ruriko_8 (G1), Schiebel_8 (G1), ShaboiShabazz_8 (G1), Sizemore_8 (G1), Sneeze_8 (G1), Sweets_8 (G1), Taheera_8 (G1), Terror_8 (G1), TinaBug_8 (G1), TomBrady_8 (G1), Wendigo_8 (G1), ZoMa_8 (G1), Zombie_8 (G1),

Start 2:

- Found in 71 of 72 (98.6%) of genes in pham
- No Manual Annotations of this start.
- Called 1.4% of time when present
- Phage (with cluster) where this start called: AizenPogi_8 (G1),

Summary by clusters:

There are 2 clusters represented in this pham: G, G1,

Info for manual annotations of cluster G1:

- Start number 1 was manually annotated 61 times for cluster G1.

Gene Information:

Gene: AizenPogi_8 Start: 8084, Stop: 8302, Start Num: 2

Candidate Starts for AizenPogi_8:

(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: Angel_8 Start: 8075, Stop: 8302, Start Num: 1

Candidate Starts for Angel_8:
(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: Annihilator_8 Start: 8075, Stop: 8302, Start Num: 1
Candidate Starts for Annihilator_8:
(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: Aroostook_8 Start: 8075, Stop: 8302, Start Num: 1
Candidate Starts for Aroostook_8:
(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: Avrafan_8 Start: 8075, Stop: 8302, Start Num: 1
Candidate Starts for Avrafan_8:
(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: AzulaCat_8 Start: 8075, Stop: 8302, Start Num: 1
Candidate Starts for AzulaCat_8:
(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: BPs_8 Start: 8075, Stop: 8302, Start Num: 1
Candidate Starts for BPs_8:
(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: BQuat_8 Start: 8075, Stop: 8302, Start Num: 1
Candidate Starts for BQuat_8:
(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: Barkley26_8 Start: 8075, Stop: 8302, Start Num: 1
Candidate Starts for Barkley26_8:
(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: BruceB_8 Start: 8075, Stop: 8302, Start Num: 1
Candidate Starts for BruceB_8:
(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: CLED96_8 Start: 8075, Stop: 8302, Start Num: 1
Candidate Starts for CLED96_8:
(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: Camri_8 Start: 8075, Stop: 8302, Start Num: 1
Candidate Starts for Camri_8:
(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: CassieYates_8 Start: 8075, Stop: 8302, Start Num: 1
Candidate Starts for CassieYates_8:
(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: Cedasite_8 Start: 8075, Stop: 8302, Start Num: 1
Candidate Starts for Cedasite_8:
(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: Chance64_8 Start: 8075, Stop: 8302, Start Num: 1
Candidate Starts for Chance64_8:

(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: Cherrybomb426_8 Start: 8075, Stop: 8302, Start Num: 1

Candidate Starts for Cherrybomb426_8:

(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: Coleslaw_8 Start: 8075, Stop: 8302, Start Num: 1

Candidate Starts for Coleslaw_8:

(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: Crespo_8 Start: 8076, Stop: 8303, Start Num: 1

Candidate Starts for Crespo_8:

(Start: 1 @8076 has 61 MA's), (2, 8085), (4, 8103), (5, 8112), (6, 8160),

Gene: DMoney_8 Start: 8075, Stop: 8302, Start Num: 1

Candidate Starts for DMoney_8:

(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: DNAIII_008 Start: 8084, Stop: 8311, Start Num: 1

Candidate Starts for DNAIII_008:

(Start: 1 @8084 has 61 MA's), (2, 8093), (4, 8111), (6, 8168),

Gene: Darionha_8 Start: 8075, Stop: 8302, Start Num: 1

Candidate Starts for Darionha_8:

(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: DingDing_8 Start: 8075, Stop: 8302, Start Num: 1

Candidate Starts for DingDing_8:

(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: ECartman_8 Start: 8075, Stop: 8302, Start Num: 1

Candidate Starts for ECartman_8:

(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: Frosty24_8 Start: 8075, Stop: 8302, Start Num: 1

Candidate Starts for Frosty24_8:

(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: Gideon_8 Start: 8075, Stop: 8302, Start Num: 1

Candidate Starts for Gideon_8:

(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: GoldenAsh_8 Start: 8075, Stop: 8302, Start Num: 1

Candidate Starts for GoldenAsh_8:

(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: Gomashi_8 Start: 8076, Stop: 8303, Start Num: 1

Candidate Starts for Gomashi_8:

(Start: 1 @8076 has 61 MA's), (2, 8085), (4, 8103), (5, 8112), (6, 8160),

Gene: Grizzly_8 Start: 8075, Stop: 8302, Start Num: 1

Candidate Starts for Grizzly_8:

(Start: 1 @8075 has 61 MA's), (5, 8111), (6, 8159),

Gene: Halo_8 Start: 8076, Stop: 8297, Start Num: 1
Candidate Starts for Halo_8:
(Start: 1 @8076 has 61 MA's), (2, 8085), (4, 8103), (5, 8112), (6, 8160),

Gene: Hope_8 Start: 8075, Stop: 8302, Start Num: 1
Candidate Starts for Hope_8:
(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: Hotshotbaby7_8 Start: 8075, Stop: 8302, Start Num: 1
Candidate Starts for Hotshotbaby7_8:
(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: Jane_8 Start: 8075, Stop: 8302, Start Num: 1
Candidate Starts for Jane_8:
(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: Jeilious_8 Start: 8074, Stop: 8301, Start Num: 1
Candidate Starts for Jeilious_8:
(Start: 1 @8074 has 61 MA's), (2, 8083), (4, 8101), (5, 8110), (6, 8158),

Gene: Jolene_8 Start: 8075, Stop: 8302, Start Num: 1
Candidate Starts for Jolene_8:
(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: Jonghyun_8 Start: 8075, Stop: 8302, Start Num: 1
Candidate Starts for Jonghyun_8:
(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: JorRay_8 Start: 8075, Stop: 8302, Start Num: 1
Candidate Starts for JorRay_8:
(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: Kareem_8 Start: 8075, Stop: 8302, Start Num: 1
Candidate Starts for Kareem_8:
(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: Kasen3_8 Start: 8076, Stop: 8303, Start Num: 1
Candidate Starts for Kasen3_8:
(Start: 1 @8076 has 61 MA's), (2, 8085), (4, 8103), (5, 8112), (6, 8160),

Gene: Liefie_8 Start: 8074, Stop: 8301, Start Num: 1
Candidate Starts for Liefie_8:
(Start: 1 @8074 has 61 MA's), (2, 8083), (4, 8101), (5, 8110), (6, 8158),

Gene: LouisV14_8 Start: 8075, Stop: 8302, Start Num: 1
Candidate Starts for LouisV14_8:
(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: MZKinsey_8 Start: 8075, Stop: 8302, Start Num: 1
Candidate Starts for MZKinsey_8:
(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: Maliketh_8 Start: 8075, Stop: 8302, Start Num: 1
Candidate Starts for Maliketh_8:
(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: Marmie_8 Start: 8075, Stop: 8302, Start Num: 1
Candidate Starts for Marmie_8:
(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: Mowgli_8 Start: 8075, Stop: 8302, Start Num: 1
Candidate Starts for Mowgli_8:
(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: Neoh_8 Start: 8076, Stop: 8303, Start Num: 1
Candidate Starts for Neoh_8:
(Start: 1 @8076 has 61 MA's), (2, 8085), (4, 8103), (5, 8112), (6, 8160),

Gene: OctaviousRex_8 Start: 8075, Stop: 8302, Start Num: 1
Candidate Starts for OctaviousRex_8:
(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: Olga_8 Start: 8075, Stop: 8302, Start Num: 1
Candidate Starts for Olga_8:
(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: Peeb_8 Start: 8075, Stop: 8302, Start Num: 1
Candidate Starts for Peeb_8:
(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: Periodt_8 Start: 8075, Stop: 8302, Start Num: 1
Candidate Starts for Periodt_8:
(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: Phish_8 Start: 8075, Stop: 8302, Start Num: 1
Candidate Starts for Phish_8:
(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: Phloodle_8 Start: 8075, Stop: 8302, Start Num: 1
Candidate Starts for Phloodle_8:
(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: Phreak_8 Start: 8075, Stop: 8302, Start Num: 1
Candidate Starts for Phreak_8:
(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: PinkYoshi_8 Start: 8075, Stop: 8302, Start Num: 1
Candidate Starts for PinkYoshi_8:
(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: Plagueis_8 Start: 8075, Stop: 8302, Start Num: 1
Candidate Starts for Plagueis_8:
(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: Rabbs_8 Start: 8071, Stop: 8286, Start Num: 1

Candidate Starts for Rabbs_8:

(Start: 1 @8071 has 61 MA's), (2, 8080), (5, 8107),

Gene: Rattrick_8 Start: 8075, Stop: 8302, Start Num: 1

Candidate Starts for Rattrick_8:

(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: Remy19_8 Start: 8075, Stop: 8302, Start Num: 1

Candidate Starts for Remy19_8:

(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: Renaissance_8 Start: 8075, Stop: 8302, Start Num: 1

Candidate Starts for Renaissance_8:

(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: Richarlison_8 Start: 8075, Stop: 8302, Start Num: 1

Candidate Starts for Richarlison_8:

(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: Ruriko_8 Start: 8075, Stop: 8302, Start Num: 1

Candidate Starts for Ruriko_8:

(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: Schiebel_8 Start: 8075, Stop: 8302, Start Num: 1

Candidate Starts for Schiebel_8:

(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: ShaboiShabazz_8 Start: 8075, Stop: 8302, Start Num: 1

Candidate Starts for ShaboiShabazz_8:

(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: Sizemore_8 Start: 8076, Stop: 8303, Start Num: 1

Candidate Starts for Sizemore_8:

(Start: 1 @8076 has 61 MA's), (2, 8085), (4, 8103), (5, 8112), (6, 8160),

Gene: Sneeze_8 Start: 8070, Stop: 8285, Start Num: 1

Candidate Starts for Sneeze_8:

(Start: 1 @8070 has 61 MA's), (2, 8079), (5, 8106),

Gene: Sweets_8 Start: 8076, Stop: 8297, Start Num: 1

Candidate Starts for Sweets_8:

(Start: 1 @8076 has 61 MA's), (2, 8085), (4, 8103), (5, 8112), (6, 8160),

Gene: Taheera_8 Start: 8080, Stop: 8295, Start Num: 1

Candidate Starts for Taheera_8:

(Start: 1 @8080 has 61 MA's), (2, 8089), (3, 8104), (5, 8116),

Gene: Terror_8 Start: 8080, Stop: 8295, Start Num: 1

Candidate Starts for Terror_8:

(Start: 1 @8080 has 61 MA's), (2, 8089), (3, 8104), (5, 8116),

Gene: TinaBug_8 Start: 8076, Stop: 8297, Start Num: 1

Candidate Starts for TinaBug_8:

(Start: 1 @8076 has 61 MA's), (2, 8085), (4, 8103), (5, 8112), (6, 8160),

Gene: TomBrady_8 Start: 8076, Stop: 8303, Start Num: 1

Candidate Starts for TomBrady_8:

(Start: 1 @8076 has 61 MA's), (2, 8085), (4, 8103), (5, 8112), (6, 8160),

Gene: Wendigo_8 Start: 8075, Stop: 8302, Start Num: 1

Candidate Starts for Wendigo_8:

(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: ZoMa_8 Start: 8075, Stop: 8302, Start Num: 1

Candidate Starts for ZoMa_8:

(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),

Gene: Zombie_8 Start: 8075, Stop: 8302, Start Num: 1

Candidate Starts for Zombie_8:

(Start: 1 @8075 has 61 MA's), (2, 8084), (4, 8102), (5, 8111), (6, 8159),