

Pham 298397



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 298397 Report

This analysis was run 06/08/26 on database version 649.

Pham number 298397 has 42 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Hemma_39
- Track 2 : ScienceWizSam_43, Westerlin_42, AreFloNak_43, Breylor17_43, DevitoJr_41, Trustiboi_42, Nivinsha_43
- Track 3 : Brunswick_42, Issa_42
- Track 4 : ElephantMan_40, Niktson_40
- Track 5 : Gordon_40
- Track 6 : Tatanka_40
- Track 7 : Tenno_43, Teacup_42, Acai_43, Dinallo_42
- Track 8 : CastorTray_43
- Track 9 : Darby_40
- Track 10 : LucySwiss_41
- Track 11 : Nightmare_43, CapnMurica_40, MiniBagel_42
- Track 12 : Synopsis_40
- Track 13 : Shepard_46, Bouchard_42, LilHuddy_43
- Track 14 : Tipton_44, Chlochlo_44, Tokki_45
- Track 15 : Giantsbane_44
- Track 16 : Anandi_45
- Track 17 : Caterpillar_39
- Track 18 : MediumFry_40
- Track 19 : Makai_42
- Track 20 : Truckee_40, Phaby_43
- Track 21 : Zippen_44, Ingrid_44, Inked_45, Loretta_44

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

The start number called the most often in the published annotations is 9, it was called in 32 of the 36 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Acai_43, Anandi_45, AreFloNak_43, Bouchard_42, Breylor17_43, Brunswick_42, CastorTray_43, Caterpillar_39, Chlochlo_44, Darby_40, DevitoJr_41, Dinallo_42, ElephantMan_40, Giantsbane_44, Gordon_40, Hemma_39, Ingrid_44, Inked_45, Issa_42, LilHuddy_43, Loretta_44, Makai_42, MediumFry_40, Niktson_40, Nivinsha_43, Phaby_43, ScienceWizSam_43, Shepard_46, Synopsis_40,

Tatanka_40, Teacup_42, Tenno_43, Tipton_44, Tokki_45, Truckee_40, Trustiboi_42, Westerlin_42, Zippen_44,

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

- CapnMurica_40, LucySwiss_41, MiniBagel_42, Nightmare_43,

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

-

Summary by start number:

Start 7:

- Found in 16 of 42 (38.1%) of genes in pham
- Manual Annotations of this start: 4 of 36
- Called 25.0% of time when present
- Phage (with cluster) where this start called: CapnMurica_40 (AU1), LucySwiss_41 (AU1), MiniBagel_42 (AU1), Nightmare_43 (AU1),

Start 9:

- Found in 42 of 42 (100.0%) of genes in pham
- Manual Annotations of this start: 32 of 36
- Called 90.5% of time when present
- Phage (with cluster) where this start called: Acai_43 (AU1), Anandi_45 (AU4), AreFloNak_43 (AU1), Bouchard_42 (AU2), Breylor17_43 (AU1), Brunswick_42 (AU1), CastorTray_43 (AU1), Caterpillar_39 (AU4), Chlochlo_44 (AU2), Darby_40 (AU1), DevitoJr_41 (AU1), Dinallo_42 (AU1), ElephantMan_40 (AU1), Giantsbane_44 (AU2), Gordon_40 (AU1), Hemma_39 (AU1), Ingrid_44 (AU3), Inked_45 (AU7), Issa_42 (AU1), LilHuddy_43 (AU2), Loretta_44 (AU3), Makai_42 (AU5), MediumFry_40 (AU4), Niktson_40 (AU1), Nivinsha_43 (AU1), Phaby_43 (AU2), ScienceWizSam_43 (AU1), Shepard_46 (AU2), Synepsis_40 (AU1), Tatanka_40 (AU1), Teacup_42 (AU1), Tenno_43 (AU1), Tipton_44 (AU2), Tokki_45 (AU2), Truckee_40 (AU5), Trustiboi_42 (AU1), Westerlin_42 (AU1), Zippen_44 (AU7),

Summary by clusters:

There are 6 clusters represented in this pham: AU1, AU3, AU2, AU5, AU4, AU7,

Info for manual annotations of cluster AU1:

- Start number 7 was manually annotated 4 times for cluster AU1.
- Start number 9 was manually annotated 15 times for cluster AU1.

Info for manual annotations of cluster AU2:

- Start number 9 was manually annotated 8 times for cluster AU2.

Info for manual annotations of cluster AU3:

- Start number 9 was manually annotated 2 times for cluster AU3.

Info for manual annotations of cluster AU4:

- Start number 9 was manually annotated 3 times for cluster AU4.

Info for manual annotations of cluster AU5:

- Start number 9 was manually annotated 2 times for cluster AU5.

Info for manual annotations of cluster AU7:

•Start number 9 was manually annotated 2 times for cluster AU7.

Gene Information:

Gene: Acai_43 Start: 32484, Stop: 32693, Start Num: 9

Candidate Starts for Acai_43:

(Start: 7 @32448 has 4 MA's), (Start: 9 @32484 has 32 MA's), (10, 32550), (11, 32571), (12, 32586), (13, 32616), (14, 32625),

Gene: Anandi_45 Start: 32950, Stop: 33162, Start Num: 9

Candidate Starts for Anandi_45:

(8, 32935), (Start: 9 @32950 has 32 MA's), (11, 33037), (12, 33052), (14, 33091),

Gene: AreFloNak_43 Start: 32435, Stop: 32644, Start Num: 9

Candidate Starts for AreFloNak_43:

(Start: 9 @32435 has 32 MA's), (10, 32501), (11, 32522), (12, 32537), (13, 32567), (14, 32576),

Gene: Bouchard_42 Start: 32501, Stop: 32713, Start Num: 9

Candidate Starts for Bouchard_42:

(8, 32486), (Start: 9 @32501 has 32 MA's), (11, 32588), (12, 32603), (14, 32642), (15, 32657),

Gene: Breylor17_43 Start: 33215, Stop: 33424, Start Num: 9

Candidate Starts for Breylor17_43:

(Start: 9 @33215 has 32 MA's), (10, 33281), (11, 33302), (12, 33317), (13, 33347), (14, 33356),

Gene: Brunswick_42 Start: 32039, Stop: 32248, Start Num: 9

Candidate Starts for Brunswick_42:

(Start: 7 @32003 has 4 MA's), (Start: 9 @32039 has 32 MA's), (10, 32105), (11, 32126), (12, 32141), (13, 32171), (14, 32180),

Gene: CapnMurica_40 Start: 33166, Stop: 33411, Start Num: 7

Candidate Starts for CapnMurica_40:

(Start: 7 @33166 has 4 MA's), (Start: 9 @33202 has 32 MA's), (10, 33268), (11, 33289), (12, 33304), (13, 33334), (14, 33343),

Gene: CastorTray_43 Start: 32764, Stop: 32973, Start Num: 9

Candidate Starts for CastorTray_43:

(Start: 7 @32728 has 4 MA's), (Start: 9 @32764 has 32 MA's), (10, 32830), (11, 32851), (12, 32866), (14, 32905),

Gene: Caterpillar_39 Start: 31584, Stop: 31799, Start Num: 9

Candidate Starts for Caterpillar_39:

(8, 31569), (Start: 9 @31584 has 32 MA's), (11, 31671), (12, 31686), (14, 31725),

Gene: Chlochlo_44 Start: 32566, Stop: 32778, Start Num: 9

Candidate Starts for Chlochlo_44:

(8, 32551), (Start: 9 @32566 has 32 MA's), (11, 32653), (12, 32668), (14, 32707), (15, 32722),

Gene: Darby_40 Start: 31942, Stop: 32151, Start Num: 9

Candidate Starts for Darby_40:

(Start: 7 @31906 has 4 MA's), (Start: 9 @31942 has 32 MA's), (10, 32008), (11, 32029), (12, 32044), (13, 32074), (14, 32083),

Gene: DevitoJr_41 Start: 32385, Stop: 32594, Start Num: 9

Candidate Starts for DevitoJr_41:

(Start: 9 @32385 has 32 MA's), (10, 32451), (11, 32472), (12, 32487), (13, 32517), (14, 32526),

Gene: Dinallo_42 Start: 33511, Stop: 33720, Start Num: 9

Candidate Starts for Dinallo_42:

(Start: 7 @33475 has 4 MA's), (Start: 9 @33511 has 32 MA's), (10, 33577), (11, 33598), (12, 33613), (13, 33643), (14, 33652),

Gene: ElephantMan_40 Start: 32612, Stop: 32821, Start Num: 9

Candidate Starts for ElephantMan_40:

(3, 32501), (4, 32525), (6, 32531), (Start: 7 @32576 has 4 MA's), (Start: 9 @32612 has 32 MA's), (10, 32678), (11, 32699), (12, 32714), (13, 32744), (14, 32753),

Gene: Giantsbane_44 Start: 31755, Stop: 31964, Start Num: 9

Candidate Starts for Giantsbane_44:

(8, 31740), (Start: 9 @31755 has 32 MA's), (11, 31842), (12, 31857), (14, 31893), (15, 31908),

Gene: Gordon_40 Start: 33227, Stop: 33436, Start Num: 9

Candidate Starts for Gordon_40:

(1, 33077), (2, 33101), (5, 33143), (Start: 7 @33191 has 4 MA's), (Start: 9 @33227 has 32 MA's), (10, 33293), (11, 33314), (12, 33329), (13, 33359), (14, 33368),

Gene: Hemma_39 Start: 29251, Stop: 29463, Start Num: 9

Candidate Starts for Hemma_39:

(Start: 9 @29251 has 32 MA's), (11, 29338), (12, 29353), (14, 29392),

Gene: Ingrid_44 Start: 32497, Stop: 32712, Start Num: 9

Candidate Starts for Ingrid_44:

(8, 32482), (Start: 9 @32497 has 32 MA's), (11, 32584), (12, 32599), (14, 32638),

Gene: Inked_45 Start: 33465, Stop: 33680, Start Num: 9

Candidate Starts for Inked_45:

(8, 33450), (Start: 9 @33465 has 32 MA's), (11, 33552), (12, 33567), (14, 33606),

Gene: Issa_42 Start: 32494, Stop: 32703, Start Num: 9

Candidate Starts for Issa_42:

(Start: 7 @32458 has 4 MA's), (Start: 9 @32494 has 32 MA's), (10, 32560), (11, 32581), (12, 32596), (13, 32626), (14, 32635),

Gene: LilHuddy_43 Start: 32486, Stop: 32698, Start Num: 9

Candidate Starts for LilHuddy_43:

(8, 32471), (Start: 9 @32486 has 32 MA's), (11, 32573), (12, 32588), (14, 32627), (15, 32642),

Gene: Loretta_44 Start: 32497, Stop: 32712, Start Num: 9

Candidate Starts for Loretta_44:

(8, 32482), (Start: 9 @32497 has 32 MA's), (11, 32584), (12, 32599), (14, 32638),

Gene: LucySwiss_41 Start: 31918, Stop: 32163, Start Num: 7

Candidate Starts for LucySwiss_41:

(Start: 7 @31918 has 4 MA's), (Start: 9 @31954 has 32 MA's), (10, 32020), (11, 32041), (12, 32056), (13, 32086), (14, 32095),

Gene: Makai_42 Start: 32695, Stop: 32904, Start Num: 9

Candidate Starts for Makai_42:

(8, 32680), (Start: 9 @32695 has 32 MA's), (11, 32782), (12, 32797), (14, 32836), (15, 32851),

Gene: MediumFry_40 Start: 31899, Stop: 32114, Start Num: 9

Candidate Starts for MediumFry_40:

(8, 31884), (Start: 9 @31899 has 32 MA's), (11, 31986), (12, 32001), (14, 32040), (16, 32058),

Gene: MiniBagel_42 Start: 33148, Stop: 33393, Start Num: 7

Candidate Starts for MiniBagel_42:

(Start: 7 @33148 has 4 MA's), (Start: 9 @33184 has 32 MA's), (10, 33250), (11, 33271), (12, 33286), (13, 33316), (14, 33325),

Gene: Nightmare_43 Start: 33078, Stop: 33323, Start Num: 7

Candidate Starts for Nightmare_43:

(Start: 7 @33078 has 4 MA's), (Start: 9 @33114 has 32 MA's), (10, 33180), (11, 33201), (12, 33216), (13, 33246), (14, 33255),

Gene: Niktson_40 Start: 32612, Stop: 32821, Start Num: 9

Candidate Starts for Niktson_40:

(3, 32501), (4, 32525), (6, 32531), (Start: 7 @32576 has 4 MA's), (Start: 9 @32612 has 32 MA's), (10, 32678), (11, 32699), (12, 32714), (13, 32744), (14, 32753),

Gene: Nivinsha_43 Start: 32435, Stop: 32644, Start Num: 9

Candidate Starts for Nivinsha_43:

(Start: 9 @32435 has 32 MA's), (10, 32501), (11, 32522), (12, 32537), (13, 32567), (14, 32576),

Gene: Phaby_43 Start: 32611, Stop: 32823, Start Num: 9

Candidate Starts for Phaby_43:

(8, 32596), (Start: 9 @32611 has 32 MA's), (11, 32698), (12, 32713), (14, 32752), (15, 32767),

Gene: ScienceWizSam_43 Start: 32704, Stop: 32913, Start Num: 9

Candidate Starts for ScienceWizSam_43:

(Start: 9 @32704 has 32 MA's), (10, 32770), (11, 32791), (12, 32806), (13, 32836), (14, 32845),

Gene: Shepard_46 Start: 32770, Stop: 32982, Start Num: 9

Candidate Starts for Shepard_46:

(8, 32755), (Start: 9 @32770 has 32 MA's), (11, 32857), (12, 32872), (14, 32911), (15, 32926),

Gene: Synopsis_40 Start: 32370, Stop: 32579, Start Num: 9

Candidate Starts for Synopsis_40:

(Start: 9 @32370 has 32 MA's), (10, 32436), (11, 32457), (12, 32472), (14, 32511),

Gene: Tatanka_40 Start: 32543, Stop: 32752, Start Num: 9

Candidate Starts for Tatanka_40:

(4, 32456), (6, 32462), (Start: 7 @32507 has 4 MA's), (Start: 9 @32543 has 32 MA's), (10, 32609), (11, 32630), (12, 32645), (14, 32684),

Gene: Teacup_42 Start: 32559, Stop: 32768, Start Num: 9

Candidate Starts for Teacup_42:

(Start: 7 @32523 has 4 MA's), (Start: 9 @32559 has 32 MA's), (10, 32625), (11, 32646), (12, 32661), (13, 32691), (14, 32700),

Gene: Tenno_43 Start: 33192, Stop: 33401, Start Num: 9

Candidate Starts for Tenno_43:

(Start: 7 @33156 has 4 MA's), (Start: 9 @33192 has 32 MA's), (10, 33258), (11, 33279), (12, 33294), (13, 33324), (14, 33333),

Gene: Tipton_44 Start: 32904, Stop: 33116, Start Num: 9

Candidate Starts for Tipton_44:

(8, 32889), (Start: 9 @32904 has 32 MA's), (11, 32991), (12, 33006), (14, 33045), (15, 33060),

Gene: Tokki_45 Start: 32556, Stop: 32768, Start Num: 9

Candidate Starts for Tokki_45:

(8, 32541), (Start: 9 @32556 has 32 MA's), (11, 32643), (12, 32658), (14, 32697), (15, 32712),

Gene: Truckee_40 Start: 32484, Stop: 32693, Start Num: 9

Candidate Starts for Truckee_40:

(8, 32469), (Start: 9 @32484 has 32 MA's), (11, 32571), (12, 32586), (14, 32625), (15, 32640),

Gene: Trustiboi_42 Start: 32921, Stop: 33130, Start Num: 9

Candidate Starts for Trustiboi_42:

(Start: 9 @32921 has 32 MA's), (10, 32987), (11, 33008), (12, 33023), (13, 33053), (14, 33062),

Gene: Westerlin_42 Start: 34012, Stop: 34221, Start Num: 9

Candidate Starts for Westerlin_42:

(Start: 9 @34012 has 32 MA's), (10, 34078), (11, 34099), (12, 34114), (13, 34144), (14, 34153),

Gene: Zippen_44 Start: 33342, Stop: 33557, Start Num: 9

Candidate Starts for Zippen_44:

(8, 33327), (Start: 9 @33342 has 32 MA's), (11, 33429), (12, 33444), (14, 33483),