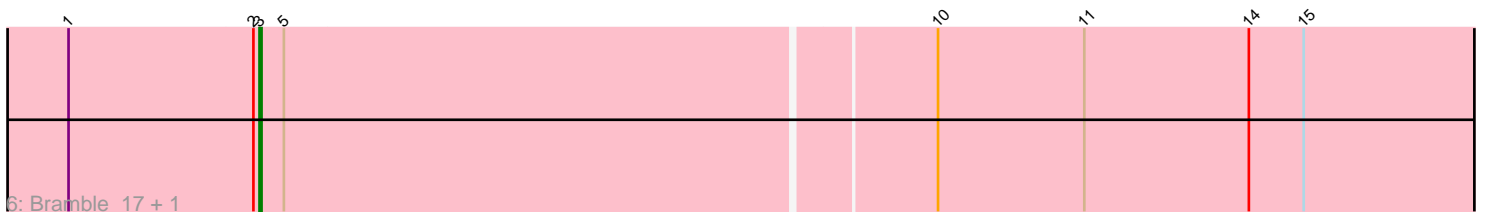
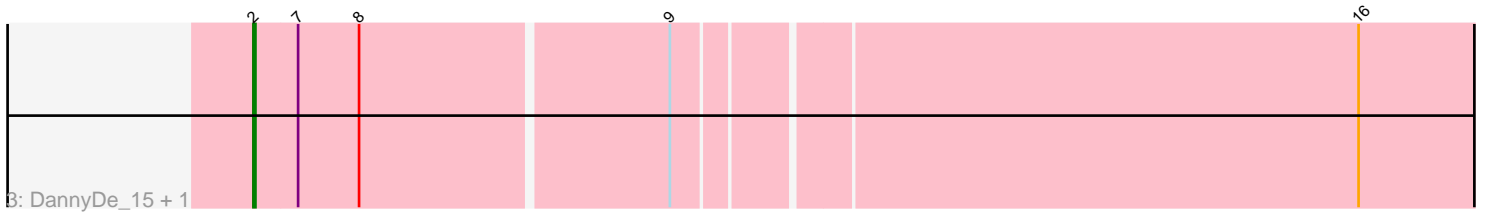
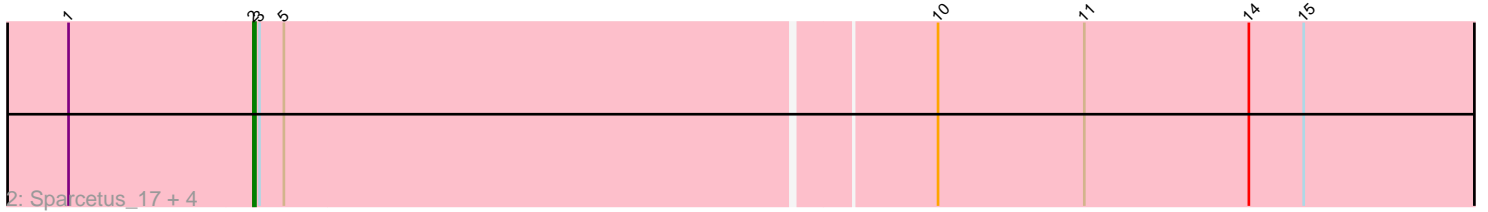


Pham 305109



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 305109 Report

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

Pham number 305109 has 46 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Haunter_16, NarutoRun_16, MortySmith_14, Cybele_16, PhunaPhoke_16, Aesir_15, Kate_16, Erudite_15, Rie18_16, Tedro_16, Gilda_16, AnnaSerena_16, FreddieHg_15, Artiphact_16, Krampus_16, Pharpay_16, Karate_15, CoolCookie_16, Neptune_16, JDawG_15, OverHedge_16, Potty_16, FountainFog_15, Dauntless_15, Poultruss_15, Rachella_16, OhDear_16, Anakin_16
- Track 2 : Sparcetus_17, Ajin_17, Kors_17, TinyMiny_17, RikSengupta_17
- Track 3 : DannyDe_15, SilentWarrior_15
- Track 4 : JingleBells_15, Snakehole_17, Tongui_15, Chivey_15, Annapurna_15, Crestdrop_15, Hiddenleaf_15
- Track 5 : Hager_17
- Track 6 : Bramble_17, LordBart_17
- Track 7 : Wollypog_4

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

The start number called the most often in the published annotations is 2, it was called in 40 of the 43 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aesir_15, Ajin_17, Anakin_16, AnnaSerena_16, Annapurna_15, Artiphact_16, Chivey_15, CoolCookie_16, Crestdrop_15, Cybele_16, DannyDe_15, Dauntless_15, Erudite_15, FountainFog_15, FreddieHg_15, Gilda_16, Hager_17, Haunter_16, Hiddenleaf_15, JDawG_15, JingleBells_15, Karate_15, Kate_16, Kors_17, Krampus_16, MortySmith_14, NarutoRun_16, Neptune_16, OhDear_16, OverHedge_16, Pharpay_16, PhunaPhoke_16, Potty_16, Poultruss_15, Rachella_16, Rie18_16, RikSengupta_17, SilentWarrior_15, Snakehole_17, Sparcetus_17, Tedro_16, TinyMiny_17, Tongui_15,

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

- Bramble_17, LordBart_17,

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

- Wollypog_4,

Summary by start number:

Start 2:

- Found in 45 of 46 (97.8%) of genes in pham
- Manual Annotations of this start: 40 of 43
- Called 95.6% of time when present
- Phage (with cluster) where this start called: Aesir_15 (EF), Ajin_17 (EF), Anakin_16 (EF), AnnaSerena_16 (EF), Annapurna_15 (EF), Artiphact_16 (EF), Chivey_15 (EF), CoolCookie_16 (EF), Crestdrop_15 (EF), Cybele_16 (EF), DannyDe_15 (EF), Dauntless_15 (EF), Erudite_15 (EF), FountainFog_15 (EF), FreddieHg_15 (EF), Gilda_16 (EF), Hager_17 (EF), Haunter_16 (EF), Hiddenleaf_15 (EF), JDawG_15 (EF), JingleBells_15 (EF), Karate_15 (EF), Kate_16 (EF), Kors_17 (EF), Krampus_16 (EF), MortySmith_14 (EF), NarutoRun_16 (EF), Neptune_16 (EF), OhDear_16 (EF), OverHedge_16 (EF), Pharpay_16 (EF), PhunaPhoke_16 (EF), Potty_16 (EF), Poultruss_15 (EF), Rachella_16 (EF), Rie18_16 (EF), RikSengupta_17 (EF), SilentWarrior_15 (EF), Snakehole_17 (EF), Sparcetus_17 (EF), Tedro_16 (EF), TinyMiny_17 (EF), Tongui_15 (EF),

Start 3:

- Found in 7 of 46 (15.2%) of genes in pham
- Manual Annotations of this start: 2 of 43
- Called 28.6% of time when present
- Phage (with cluster) where this start called: Bramble_17 (EF), LordBart_17 (EF),

Start 4:

- Found in 1 of 46 (2.2%) of genes in pham
- Manual Annotations of this start: 1 of 43
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Wollypog_4 (singleton),

Summary by clusters:

There are 2 clusters represented in this pham: singleton, EF,

Info for manual annotations of cluster EF:

- Start number 2 was manually annotated 40 times for cluster EF.
- Start number 3 was manually annotated 2 times for cluster EF.

Gene Information:

Gene: Aesir_15 Start: 8306, Stop: 9034, Start Num: 2

Candidate Starts for Aesir_15:

(Start: 2 @8306 has 40 MA's), (7, 8327), (8, 8357), (13, 8711),

Gene: Ajin_17 Start: 8356, Stop: 9093, Start Num: 2

Candidate Starts for Ajin_17:

(1, 8266), (Start: 2 @8356 has 40 MA's), (Start: 3 @8359 has 2 MA's), (5, 8371), (10, 8683), (11, 8755), (14, 8836), (15, 8863),

Gene: Anakin_16 Start: 8521, Stop: 9249, Start Num: 2

Candidate Starts for Anakin_16:

(Start: 2 @8521 has 40 MA's), (7, 8542), (8, 8572), (13, 8926),

Gene: AnnaSerena_16 Start: 8518, Stop: 9252, Start Num: 2

Candidate Starts for AnnaSerena_16:

(Start: 2 @8518 has 40 MA's), (7, 8539), (8, 8569), (13, 8923),

Gene: Annapurna_15 Start: 7719, Stop: 8453, Start Num: 2

Candidate Starts for Annapurna_15:

(Start: 2 @7719 has 40 MA's), (7, 7740), (8, 7770), (16, 8241),

Gene: Artiphact_16 Start: 8510, Stop: 9244, Start Num: 2

Candidate Starts for Artiphact_16:

(Start: 2 @8510 has 40 MA's), (7, 8531), (8, 8561), (13, 8915),

Gene: Bramble_17 Start: 8326, Stop: 9060, Start Num: 3

Candidate Starts for Bramble_17:

(1, 8233), (Start: 2 @8323 has 40 MA's), (Start: 3 @8326 has 2 MA's), (5, 8338), (10, 8650), (11, 8722), (14, 8803), (15, 8830),

Gene: Chivey_15 Start: 7712, Stop: 8446, Start Num: 2

Candidate Starts for Chivey_15:

(Start: 2 @7712 has 40 MA's), (7, 7733), (8, 7763), (16, 8234),

Gene: CoolCookie_16 Start: 8513, Stop: 9250, Start Num: 2

Candidate Starts for CoolCookie_16:

(Start: 2 @8513 has 40 MA's), (7, 8534), (8, 8564), (13, 8918),

Gene: Crestdrop_15 Start: 7586, Stop: 8320, Start Num: 2

Candidate Starts for Crestdrop_15:

(Start: 2 @7586 has 40 MA's), (7, 7607), (8, 7637), (16, 8108),

Gene: Cybele_16 Start: 8486, Stop: 9220, Start Num: 2

Candidate Starts for Cybele_16:

(Start: 2 @8486 has 40 MA's), (7, 8507), (8, 8537), (13, 8891),

Gene: DannyDe_15 Start: 7704, Stop: 8438, Start Num: 2

Candidate Starts for DannyDe_15:

(Start: 2 @7704 has 40 MA's), (7, 7725), (8, 7755), (9, 7902), (16, 8226),

Gene: Dauntless_15 Start: 8235, Stop: 8963, Start Num: 2

Candidate Starts for Dauntless_15:

(Start: 2 @8235 has 40 MA's), (7, 8256), (8, 8286), (13, 8640),

Gene: Erudite_15 Start: 8235, Stop: 8963, Start Num: 2

Candidate Starts for Erudite_15:

(Start: 2 @8235 has 40 MA's), (7, 8256), (8, 8286), (13, 8640),

Gene: FountainFog_15 Start: 7846, Stop: 8580, Start Num: 2

Candidate Starts for FountainFog_15:

(Start: 2 @7846 has 40 MA's), (7, 7867), (8, 7897), (13, 8251),

Gene: FreddieHg_15 Start: 7725, Stop: 8462, Start Num: 2

Candidate Starts for FreddieHg_15:

(Start: 2 @7725 has 40 MA's), (7, 7746), (8, 7776), (13, 8130),

Gene: Gilda_16 Start: 8510, Stop: 9244, Start Num: 2

Candidate Starts for Gilda_16:

(Start: 2 @8510 has 40 MA's), (7, 8531), (8, 8561), (13, 8915),

Gene: Hager_17 Start: 8085, Stop: 8819, Start Num: 2

Candidate Starts for Hager_17:

(Start: 2 @8085 has 40 MA's), (7, 8106), (8, 8136), (12, 8475), (13, 8490),

Gene: Haunter_16 Start: 7929, Stop: 8663, Start Num: 2

Candidate Starts for Haunter_16:

(Start: 2 @7929 has 40 MA's), (7, 7950), (8, 7980), (13, 8334),

Gene: Hiddenleaf_15 Start: 7712, Stop: 8446, Start Num: 2

Candidate Starts for Hiddenleaf_15:

(Start: 2 @7712 has 40 MA's), (7, 7733), (8, 7763), (16, 8234),

Gene: JDawG_15 Start: 8300, Stop: 9028, Start Num: 2

Candidate Starts for JDawG_15:

(Start: 2 @8300 has 40 MA's), (7, 8321), (8, 8351), (13, 8705),

Gene: JingleBells_15 Start: 7783, Stop: 8523, Start Num: 2

Candidate Starts for JingleBells_15:

(Start: 2 @7783 has 40 MA's), (7, 7804), (8, 7834), (16, 8305),

Gene: Karate_15 Start: 7934, Stop: 8668, Start Num: 2

Candidate Starts for Karate_15:

(Start: 2 @7934 has 40 MA's), (7, 7955), (8, 7985), (13, 8339),

Gene: Kate_16 Start: 8518, Stop: 9252, Start Num: 2

Candidate Starts for Kate_16:

(Start: 2 @8518 has 40 MA's), (7, 8539), (8, 8569), (13, 8923),

Gene: Kors_17 Start: 8386, Stop: 9123, Start Num: 2

Candidate Starts for Kors_17:

(1, 8296), (Start: 2 @8386 has 40 MA's), (Start: 3 @8389 has 2 MA's), (5, 8401), (10, 8713), (11, 8785), (14, 8866), (15, 8893),

Gene: Krampus_16 Start: 8516, Stop: 9250, Start Num: 2

Candidate Starts for Krampus_16:

(Start: 2 @8516 has 40 MA's), (7, 8537), (8, 8567), (13, 8921),

Gene: LordBart_17 Start: 8362, Stop: 9096, Start Num: 3

Candidate Starts for LordBart_17:

(1, 8269), (Start: 2 @8359 has 40 MA's), (Start: 3 @8362 has 2 MA's), (5, 8374), (10, 8686), (11, 8758), (14, 8839), (15, 8866),

Gene: MortySmith_14 Start: 7697, Stop: 8425, Start Num: 2

Candidate Starts for MortySmith_14:

(Start: 2 @7697 has 40 MA's), (7, 7718), (8, 7748), (13, 8102),

Gene: NarutoRun_16 Start: 8521, Stop: 9249, Start Num: 2

Candidate Starts for NarutoRun_16:
(Start: 2 @8521 has 40 MA's), (7, 8542), (8, 8572), (13, 8926),

Gene: Neptune_16 Start: 8486, Stop: 9220, Start Num: 2
Candidate Starts for Neptune_16:
(Start: 2 @8486 has 40 MA's), (7, 8507), (8, 8537), (13, 8891),

Gene: OhDear_16 Start: 8515, Stop: 9249, Start Num: 2
Candidate Starts for OhDear_16:
(Start: 2 @8515 has 40 MA's), (7, 8536), (8, 8566), (13, 8920),

Gene: OverHedge_16 Start: 8483, Stop: 9217, Start Num: 2
Candidate Starts for OverHedge_16:
(Start: 2 @8483 has 40 MA's), (7, 8504), (8, 8534), (13, 8888),

Gene: Pharpay_16 Start: 8531, Stop: 9265, Start Num: 2
Candidate Starts for Pharpay_16:
(Start: 2 @8531 has 40 MA's), (7, 8552), (8, 8582), (13, 8936),

Gene: PhunaPhoke_16 Start: 8504, Stop: 9238, Start Num: 2
Candidate Starts for PhunaPhoke_16:
(Start: 2 @8504 has 40 MA's), (7, 8525), (8, 8555), (13, 8909),

Gene: Potty_16 Start: 8509, Stop: 9243, Start Num: 2
Candidate Starts for Potty_16:
(Start: 2 @8509 has 40 MA's), (7, 8530), (8, 8560), (13, 8914),

Gene: Poultruss_15 Start: 8283, Stop: 9017, Start Num: 2
Candidate Starts for Poultruss_15:
(Start: 2 @8283 has 40 MA's), (7, 8304), (8, 8334), (13, 8688),

Gene: Rachella_16 Start: 8515, Stop: 9249, Start Num: 2
Candidate Starts for Rachella_16:
(Start: 2 @8515 has 40 MA's), (7, 8536), (8, 8566), (13, 8920),

Gene: Rie18_16 Start: 7869, Stop: 8603, Start Num: 2
Candidate Starts for Rie18_16:
(Start: 2 @7869 has 40 MA's), (7, 7890), (8, 7920), (13, 8274),

Gene: RikSengupta_17 Start: 8438, Stop: 9175, Start Num: 2
Candidate Starts for RikSengupta_17:
(1, 8348), (Start: 2 @8438 has 40 MA's), (Start: 3 @8441 has 2 MA's), (5, 8453), (10, 8765), (11, 8837), (14, 8918), (15, 8945),

Gene: SilentWarrior_15 Start: 7720, Stop: 8454, Start Num: 2
Candidate Starts for SilentWarrior_15:
(Start: 2 @7720 has 40 MA's), (7, 7741), (8, 7771), (9, 7918), (16, 8242),

Gene: Snakehole_17 Start: 7808, Stop: 8542, Start Num: 2
Candidate Starts for Snakehole_17:
(Start: 2 @7808 has 40 MA's), (7, 7829), (8, 7859), (16, 8330),

Gene: Sparcetus_17 Start: 8317, Stop: 9054, Start Num: 2

Candidate Starts for Sparcetus_17:

(1, 8227), (Start: 2 @8317 has 40 MA's), (Start: 3 @8320 has 2 MA's), (5, 8332), (10, 8644), (11, 8716), (14, 8797), (15, 8824),

Gene: Tedro_16 Start: 7985, Stop: 8719, Start Num: 2

Candidate Starts for Tedro_16:

(Start: 2 @7985 has 40 MA's), (7, 8006), (8, 8036), (13, 8390),

Gene: TinyMiny_17 Start: 8336, Stop: 9073, Start Num: 2

Candidate Starts for TinyMiny_17:

(1, 8246), (Start: 2 @8336 has 40 MA's), (Start: 3 @8339 has 2 MA's), (5, 8351), (10, 8663), (11, 8735), (14, 8816), (15, 8843),

Gene: Tongui_15 Start: 7849, Stop: 8589, Start Num: 2

Candidate Starts for Tongui_15:

(Start: 2 @7849 has 40 MA's), (7, 7870), (8, 7900), (16, 8371),

Gene: Wollypog_4 Start: 5058, Stop: 5780, Start Num: 4

Candidate Starts for Wollypog_4:

(Start: 4 @5058 has 1 MA's), (6, 5070), (17, 5607),