



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 216307 Report

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

Pham number 216307 has 43 members, 8 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, Dauntless\_15, Poultruss\_15, Rachella\_16, Anakin\_16
- Track 2 : Kors\_18, Sparcetus\_17, Bramble\_17, Ajin\_17, TinyMiny\_17, LordBart\_17, RikSengupta\_17
- Track 3 : DannyDe\_15, SilentWarrior\_15
- Track 4 : JingleBells\_15, Tongui\_16, Snakehole\_17, Chivey\_15, Annapurna\_16, Hiddenleaf\_15, Crestdrop\_15
- Track 5 : Hager\_17

### ***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 35 of the 35 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aesir\_15, Ajin\_17, Anakin\_16, AnnaSerena\_16, Annapurna\_16, Artiphact\_16, Bramble\_17, Chivey\_15, CoolCookie\_16, Crestdrop\_15, Cybele\_16, DannyDe\_15, Dauntless\_15, Erudite\_15, FreddieHg\_15, Gilda\_16, Hager\_17, Haunter\_16, Hiddenleaf\_15, JDawG\_15, JingleBells\_15, Karate\_15, Kate\_16, Kors\_18, Krampus\_16, LordBart\_17, MortySmith\_14, NarutoRun\_16, Neptune\_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\_16,

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

- 

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

- 

### **Summary by start number:**

#### Start 2:

- Found in 43 of 43 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 35 of 35
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aesir\_15 (EF), Ajin\_17 (EF), Anakin\_16 (EF), AnnaSerena\_16 (EF), Annapurna\_16 (EF), Artiphact\_16 (EF), Bramble\_17 (EF), Chivey\_15 (EF), CoolCookie\_16 (EF), Crestdrop\_15 (EF), Cybele\_16 (EF), DannyDe\_15 (EF), Dauntless\_15 (EF), Erudite\_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\_18 (EF), Krampus\_16 (EF), LordBart\_17 (EF), MortySmith\_14 (EF), NarutoRun\_16 (EF), Neptune\_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\_16 (EF),

#### Summary by clusters:

There is one cluster represented in this pham: EF

Info for manual annotations of cluster EF:

- Start number 2 was manually annotated 35 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 35 MA's), (5, 8327), (6, 8357), (11, 8711),

Gene: Ajin\_17 Start: 8356, Stop: 9093, Start Num: 2

Candidate Starts for Ajin\_17:

(1, 8266), (Start: 2 @8356 has 35 MA's), (3, 8359), (4, 8371), (8, 8683), (9, 8755), (12, 8836), (13, 8863),

Gene: Anakin\_16 Start: 8521, Stop: 9249, Start Num: 2

Candidate Starts for Anakin\_16:

(Start: 2 @8521 has 35 MA's), (5, 8542), (6, 8572), (11, 8926),

Gene: AnnaSerena\_16 Start: 8518, Stop: 9252, Start Num: 2

Candidate Starts for AnnaSerena\_16:

(Start: 2 @8518 has 35 MA's), (5, 8539), (6, 8569), (11, 8923),

Gene: Annapurna\_16 Start: 7719, Stop: 8453, Start Num: 2

Candidate Starts for Annapurna\_16:

(Start: 2 @7719 has 35 MA's), (5, 7740), (6, 7770), (14, 8241),

Gene: Artiphact\_16 Start: 8510, Stop: 9244, Start Num: 2

Candidate Starts for Artiphact\_16:

(Start: 2 @8510 has 35 MA's), (5, 8531), (6, 8561), (11, 8915),

Gene: Bramble\_17 Start: 8323, Stop: 9060, Start Num: 2  
Candidate Starts for Bramble\_17:  
(1, 8233), (Start: 2 @8323 has 35 MA's), (3, 8326), (4, 8338), (8, 8650), (9, 8722), (12, 8803), (13, 8830),

Gene: Chivey\_15 Start: 7712, Stop: 8446, Start Num: 2  
Candidate Starts for Chivey\_15:  
(Start: 2 @7712 has 35 MA's), (5, 7733), (6, 7763), (14, 8234),

Gene: CoolCookie\_16 Start: 8513, Stop: 9250, Start Num: 2  
Candidate Starts for CoolCookie\_16:  
(Start: 2 @8513 has 35 MA's), (5, 8534), (6, 8564), (11, 8918),

Gene: Crestdrop\_15 Start: 7586, Stop: 8320, Start Num: 2  
Candidate Starts for Crestdrop\_15:  
(Start: 2 @7586 has 35 MA's), (5, 7607), (6, 7637), (14, 8108),

Gene: Cybele\_16 Start: 8486, Stop: 9220, Start Num: 2  
Candidate Starts for Cybele\_16:  
(Start: 2 @8486 has 35 MA's), (5, 8507), (6, 8537), (11, 8891),

Gene: DannyDe\_15 Start: 7704, Stop: 8438, Start Num: 2  
Candidate Starts for DannyDe\_15:  
(Start: 2 @7704 has 35 MA's), (5, 7725), (6, 7755), (7, 7902), (14, 8226),

Gene: Dauntless\_15 Start: 8235, Stop: 8963, Start Num: 2  
Candidate Starts for Dauntless\_15:  
(Start: 2 @8235 has 35 MA's), (5, 8256), (6, 8286), (11, 8640),

Gene: Erudite\_15 Start: 8235, Stop: 8963, Start Num: 2  
Candidate Starts for Erudite\_15:  
(Start: 2 @8235 has 35 MA's), (5, 8256), (6, 8286), (11, 8640),

Gene: FreddieHg\_15 Start: 7725, Stop: 8462, Start Num: 2  
Candidate Starts for FreddieHg\_15:  
(Start: 2 @7725 has 35 MA's), (5, 7746), (6, 7776), (11, 8130),

Gene: Gilda\_16 Start: 8510, Stop: 9244, Start Num: 2  
Candidate Starts for Gilda\_16:  
(Start: 2 @8510 has 35 MA's), (5, 8531), (6, 8561), (11, 8915),

Gene: Hager\_17 Start: 8085, Stop: 8819, Start Num: 2  
Candidate Starts for Hager\_17:  
(Start: 2 @8085 has 35 MA's), (5, 8106), (6, 8136), (10, 8475), (11, 8490),

Gene: Haunter\_16 Start: 7929, Stop: 8663, Start Num: 2  
Candidate Starts for Haunter\_16:  
(Start: 2 @7929 has 35 MA's), (5, 7950), (6, 7980), (11, 8334),

Gene: Hiddenleaf\_15 Start: 7712, Stop: 8446, Start Num: 2  
Candidate Starts for Hiddenleaf\_15:  
(Start: 2 @7712 has 35 MA's), (5, 7733), (6, 7763), (14, 8234),

Gene: JDawG\_15 Start: 8300, Stop: 9028, Start Num: 2  
Candidate Starts for JDawG\_15:  
(Start: 2 @8300 has 35 MA's), (5, 8321), (6, 8351), (11, 8705),

Gene: JingleBells\_15 Start: 7783, Stop: 8523, Start Num: 2  
Candidate Starts for JingleBells\_15:  
(Start: 2 @7783 has 35 MA's), (5, 7804), (6, 7834), (14, 8305),

Gene: Karate\_15 Start: 7934, Stop: 8668, Start Num: 2  
Candidate Starts for Karate\_15:  
(Start: 2 @7934 has 35 MA's), (5, 7955), (6, 7985), (11, 8339),

Gene: Kate\_16 Start: 8518, Stop: 9252, Start Num: 2  
Candidate Starts for Kate\_16:  
(Start: 2 @8518 has 35 MA's), (5, 8539), (6, 8569), (11, 8923),

Gene: Kors\_18 Start: 8386, Stop: 9123, Start Num: 2  
Candidate Starts for Kors\_18:  
(1, 8296), (Start: 2 @8386 has 35 MA's), (3, 8389), (4, 8401), (8, 8713), (9, 8785), (12, 8866), (13, 8893),

Gene: Krampus\_16 Start: 8516, Stop: 9250, Start Num: 2  
Candidate Starts for Krampus\_16:  
(Start: 2 @8516 has 35 MA's), (5, 8537), (6, 8567), (11, 8921),

Gene: LordBart\_17 Start: 8359, Stop: 9096, Start Num: 2  
Candidate Starts for LordBart\_17:  
(1, 8269), (Start: 2 @8359 has 35 MA's), (3, 8362), (4, 8374), (8, 8686), (9, 8758), (12, 8839), (13, 8866),

Gene: MortySmith\_14 Start: 7697, Stop: 8425, Start Num: 2  
Candidate Starts for MortySmith\_14:  
(Start: 2 @7697 has 35 MA's), (5, 7718), (6, 7748), (11, 8102),

Gene: NarutoRun\_16 Start: 8521, Stop: 9249, Start Num: 2  
Candidate Starts for NarutoRun\_16:  
(Start: 2 @8521 has 35 MA's), (5, 8542), (6, 8572), (11, 8926),

Gene: Neptune\_16 Start: 8486, Stop: 9220, Start Num: 2  
Candidate Starts for Neptune\_16:  
(Start: 2 @8486 has 35 MA's), (5, 8507), (6, 8537), (11, 8891),

Gene: OverHedge\_16 Start: 8483, Stop: 9217, Start Num: 2  
Candidate Starts for OverHedge\_16:  
(Start: 2 @8483 has 35 MA's), (5, 8504), (6, 8534), (11, 8888),

Gene: Pharpay\_16 Start: 8531, Stop: 9265, Start Num: 2  
Candidate Starts for Pharpay\_16:  
(Start: 2 @8531 has 35 MA's), (5, 8552), (6, 8582), (11, 8936),

Gene: PhunaPhoke\_16 Start: 8504, Stop: 9238, Start Num: 2  
Candidate Starts for PhunaPhoke\_16:  
(Start: 2 @8504 has 35 MA's), (5, 8525), (6, 8555), (11, 8909),

Gene: Potty\_16 Start: 8509, Stop: 9243, Start Num: 2  
Candidate Starts for Potty\_16:  
(Start: 2 @8509 has 35 MA's), (5, 8530), (6, 8560), (11, 8914),

Gene: Poultress\_15 Start: 8283, Stop: 9017, Start Num: 2  
Candidate Starts for Poultress\_15:  
(Start: 2 @8283 has 35 MA's), (5, 8304), (6, 8334), (11, 8688),

Gene: Rachella\_16 Start: 8515, Stop: 9249, Start Num: 2  
Candidate Starts for Rachella\_16:  
(Start: 2 @8515 has 35 MA's), (5, 8536), (6, 8566), (11, 8920),

Gene: Rie18\_16 Start: 7869, Stop: 8603, Start Num: 2  
Candidate Starts for Rie18\_16:  
(Start: 2 @7869 has 35 MA's), (5, 7890), (6, 7920), (11, 8274),

Gene: RikSengupta\_17 Start: 8438, Stop: 9175, Start Num: 2  
Candidate Starts for RikSengupta\_17:  
(1, 8348), (Start: 2 @8438 has 35 MA's), (3, 8441), (4, 8453), (8, 8765), (9, 8837), (12, 8918), (13, 8945),

Gene: SilentWarrior\_15 Start: 7720, Stop: 8454, Start Num: 2  
Candidate Starts for SilentWarrior\_15:  
(Start: 2 @7720 has 35 MA's), (5, 7741), (6, 7771), (7, 7918), (14, 8242),

Gene: Snakehole\_17 Start: 7808, Stop: 8542, Start Num: 2  
Candidate Starts for Snakehole\_17:  
(Start: 2 @7808 has 35 MA's), (5, 7829), (6, 7859), (14, 8330),

Gene: Sparcetus\_17 Start: 8317, Stop: 9054, Start Num: 2  
Candidate Starts for Sparcetus\_17:  
(1, 8227), (Start: 2 @8317 has 35 MA's), (3, 8320), (4, 8332), (8, 8644), (9, 8716), (12, 8797), (13, 8824),

Gene: Tedro\_16 Start: 7985, Stop: 8719, Start Num: 2  
Candidate Starts for Tedro\_16:  
(Start: 2 @7985 has 35 MA's), (5, 8006), (6, 8036), (11, 8390),

Gene: TinyMiny\_17 Start: 8336, Stop: 9073, Start Num: 2  
Candidate Starts for TinyMiny\_17:  
(1, 8246), (Start: 2 @8336 has 35 MA's), (3, 8339), (4, 8351), (8, 8663), (9, 8735), (12, 8816), (13, 8843),

Gene: Tongui\_16 Start: 7849, Stop: 8589, Start Num: 2  
Candidate Starts for Tongui\_16:  
(Start: 2 @7849 has 35 MA's), (5, 7870), (6, 7900), (14, 8371),