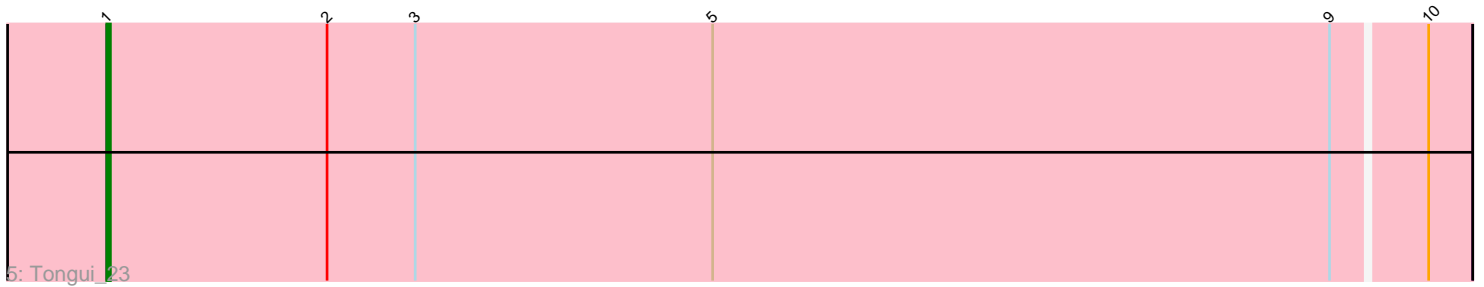
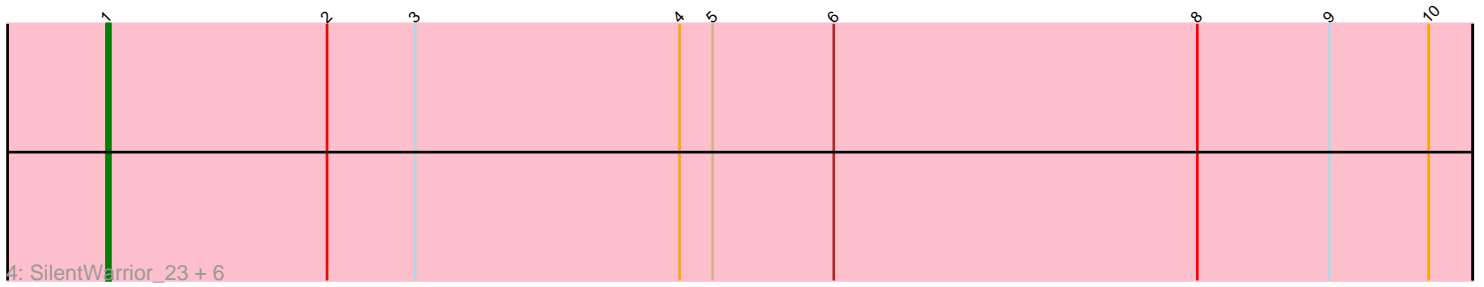
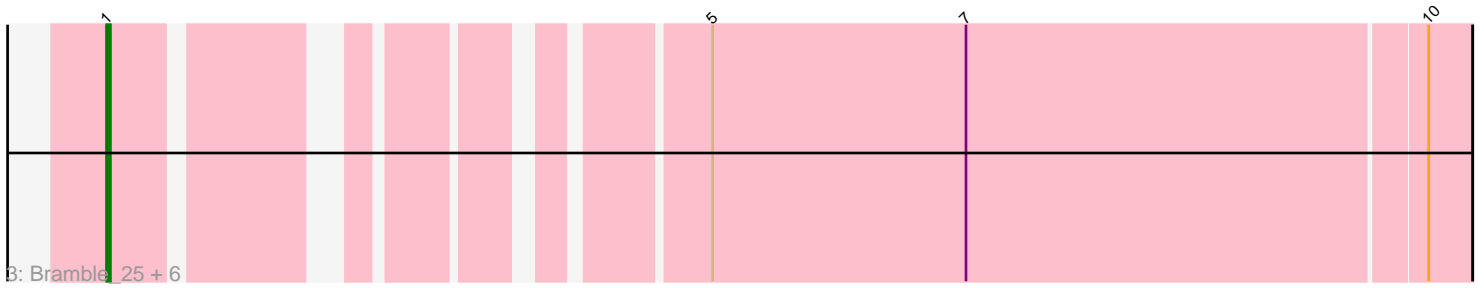
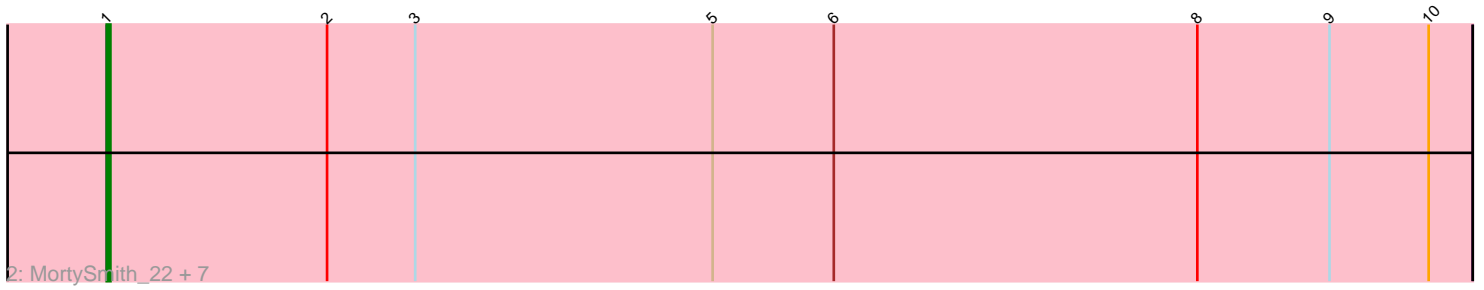
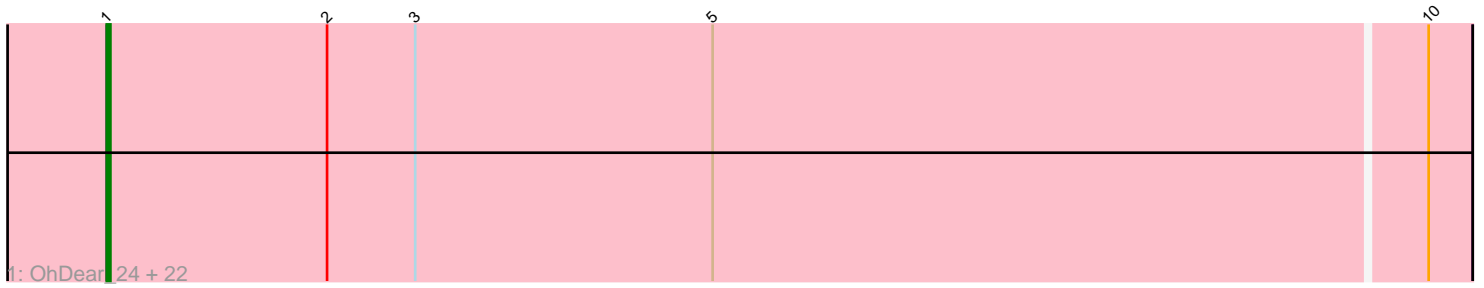


# Pham 308801



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 308801 Report

This analysis was run 06/27/26 on database version 652.

Pham number 308801 has 46 members, 4 are drafts.

Phages represented in each track:

- Track 1 : OhDear\_24, Anakin\_24, Krampus\_24, Karate\_23, Rachella\_24, Potty\_24, FountainFog\_23, Tiggy93\_24, Poultruss\_23, Haunter\_24, Artiphact\_24, Tedro\_24, Neptune\_24, PhunaPhoke\_24, Cybele\_24, Kate\_24, AnnaSerena\_24, CoolCookie\_24, Hager\_25, Rie18\_24, Gilda\_24, Pharpay\_24, NarutoRun\_24
- Track 2 : MortySmith\_22, JDawG\_23, Aesir\_23, Dauntless\_23, Crestdrop\_23, Annapurna\_23, OverHedge\_24, Erudite\_23
- Track 3 : Bramble\_25, TinyMiny\_25, LordBart\_25, RikSengupta\_25, Sparcetus\_25, Ajin\_25, Kors\_25
- Track 4 : SilentWarrior\_23, Chivey\_23, Hiddenleaf\_23, DannyDe\_23, JingleBells\_23, FreddieHg\_23, Snakehole\_25
- Track 5 : Tongui\_23

### ***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 42 of the 42 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aesir\_23, Ajin\_25, Anakin\_24, AnnaSerena\_24, Annapurna\_23, Artiphact\_24, Bramble\_25, Chivey\_23, CoolCookie\_24, Crestdrop\_23, Cybele\_24, DannyDe\_23, Dauntless\_23, Erudite\_23, FountainFog\_23, FreddieHg\_23, Gilda\_24, Hager\_25, Haunter\_24, Hiddenleaf\_23, JDawG\_23, JingleBells\_23, Karate\_23, Kate\_24, Kors\_25, Krampus\_24, LordBart\_25, MortySmith\_22, NarutoRun\_24, Neptune\_24, OhDear\_24, OverHedge\_24, Pharpay\_24, PhunaPhoke\_24, Potty\_24, Poultruss\_23, Rachella\_24, Rie18\_24, RikSengupta\_25, SilentWarrior\_23, Snakehole\_25, Sparcetus\_25, Tedro\_24, Tiggy93\_24, TinyMiny\_25, Tongui\_23,

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 1:

- Found in 46 of 46 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 42 of 42
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aesir\_23 (EF), Ajin\_25 (EF), Anakin\_24 (EF), AnnaSerena\_24 (EF), Annapurna\_23 (EF), Artiphact\_24 (EF), Bramble\_25 (EF), Chivey\_23 (EF), CoolCookie\_24 (EF), Crestdrop\_23 (EF), Cybele\_24 (EF), DannyDe\_23 (EF), Dauntless\_23 (EF), Erudite\_23 (EF), FountainFog\_23 (EF), FreddieHg\_23 (EF), Gilda\_24 (EF), Hager\_25 (EF), Haunter\_24 (EF), Hiddenleaf\_23 (EF), JDawG\_23 (EF), JingleBells\_23 (EF), Karate\_23 (EF), Kate\_24 (EF), Kors\_25 (EF), Krampus\_24 (EF), LordBart\_25 (EF), MortySmith\_22 (EF), NarutoRun\_24 (EF), Neptune\_24 (EF), OhDear\_24 (EF), OverHedge\_24 (EF), Pharpay\_24 (EF), PhunaPhoke\_24 (EF), Potty\_24 (EF), Poultruss\_23 (EF), Rachella\_24 (EF), Rie18\_24 (EF), RikSengupta\_25 (EF), SilentWarrior\_23 (EF), Snakehole\_25 (EF), Sparcetus\_25 (EF), Tedro\_24 (EF), Tiggy93\_24 (EF), TinyMiny\_25 (EF), Tongui\_23 (EF),

**Summary by clusters:**

There is one cluster represented in this pham: EF

Info for manual annotations of cluster EF:

- Start number 1 was manually annotated 42 times for cluster EF.

**Gene Information:**

Gene: Aesir\_23 Start: 12645, Stop: 13016, Start Num: 1

Candidate Starts for Aesir\_23:

(Start: 1 @12645 has 42 MA's), (2, 12705), (3, 12729), (5, 12810), (6, 12843), (8, 12942), (9, 12978), (10, 13005),

Gene: Ajin\_25 Start: 12847, Stop: 13176, Start Num: 1

Candidate Starts for Ajin\_25:

(Start: 1 @12847 has 42 MA's), (5, 12973), (7, 13042), (10, 13165),

Gene: Anakin\_24 Start: 12855, Stop: 13223, Start Num: 1

Candidate Starts for Anakin\_24:

(Start: 1 @12855 has 42 MA's), (2, 12915), (3, 12939), (5, 13020), (10, 13212),

Gene: AnnaSerena\_24 Start: 12864, Stop: 13232, Start Num: 1

Candidate Starts for AnnaSerena\_24:

(Start: 1 @12864 has 42 MA's), (2, 12924), (3, 12948), (5, 13029), (10, 13221),

Gene: Annapurna\_23 Start: 12064, Stop: 12435, Start Num: 1

Candidate Starts for Annapurna\_23:

(Start: 1 @12064 has 42 MA's), (2, 12124), (3, 12148), (5, 12229), (6, 12262), (8, 12361), (9, 12397), (10, 12424),

Gene: Artiphact\_24 Start: 12856, Stop: 13224, Start Num: 1

Candidate Starts for Artiphact\_24:

(Start: 1 @12856 has 42 MA's), (2, 12916), (3, 12940), (5, 13021), (10, 13213),

Gene: Bramble\_25 Start: 12812, Stop: 13141, Start Num: 1

Candidate Starts for Bramble\_25:

(Start: 1 @12812 has 42 MA's), (5, 12938), (7, 13007), (10, 13130),

Gene: Chivey\_23 Start: 12057, Stop: 12428, Start Num: 1

Candidate Starts for Chivey\_23:

(Start: 1 @12057 has 42 MA's), (2, 12117), (3, 12141), (4, 12213), (5, 12222), (6, 12255), (8, 12354), (9, 12390), (10, 12417),

Gene: CoolCookie\_24 Start: 12862, Stop: 13230, Start Num: 1

Candidate Starts for CoolCookie\_24:

(Start: 1 @12862 has 42 MA's), (2, 12922), (3, 12946), (5, 13027), (10, 13219),

Gene: Crestdrop\_23 Start: 11931, Stop: 12302, Start Num: 1

Candidate Starts for Crestdrop\_23:

(Start: 1 @11931 has 42 MA's), (2, 11991), (3, 12015), (5, 12096), (6, 12129), (8, 12228), (9, 12264), (10, 12291),

Gene: Cybele\_24 Start: 12832, Stop: 13200, Start Num: 1

Candidate Starts for Cybele\_24:

(Start: 1 @12832 has 42 MA's), (2, 12892), (3, 12916), (5, 12997), (10, 13189),

Gene: DannyDe\_23 Start: 12049, Stop: 12420, Start Num: 1

Candidate Starts for DannyDe\_23:

(Start: 1 @12049 has 42 MA's), (2, 12109), (3, 12133), (4, 12205), (5, 12214), (6, 12247), (8, 12346), (9, 12382), (10, 12409),

Gene: Dauntless\_23 Start: 12574, Stop: 12945, Start Num: 1

Candidate Starts for Dauntless\_23:

(Start: 1 @12574 has 42 MA's), (2, 12634), (3, 12658), (5, 12739), (6, 12772), (8, 12871), (9, 12907), (10, 12934),

Gene: Erudite\_23 Start: 12574, Stop: 12945, Start Num: 1

Candidate Starts for Erudite\_23:

(Start: 1 @12574 has 42 MA's), (2, 12634), (3, 12658), (5, 12739), (6, 12772), (8, 12871), (9, 12907), (10, 12934),

Gene: FountainFog\_23 Start: 12183, Stop: 12551, Start Num: 1

Candidate Starts for FountainFog\_23:

(Start: 1 @12183 has 42 MA's), (2, 12243), (3, 12267), (5, 12348), (10, 12540),

Gene: FreddieHg\_23 Start: 12073, Stop: 12444, Start Num: 1

Candidate Starts for FreddieHg\_23:

(Start: 1 @12073 has 42 MA's), (2, 12133), (3, 12157), (4, 12229), (5, 12238), (6, 12271), (8, 12370), (9, 12406), (10, 12433),

Gene: Gilda\_24 Start: 12856, Stop: 13224, Start Num: 1

Candidate Starts for Gilda\_24:

(Start: 1 @12856 has 42 MA's), (2, 12916), (3, 12940), (5, 13021), (10, 13213),

Gene: Hager\_25 Start: 12427, Stop: 12795, Start Num: 1

Candidate Starts for Hager\_25:

(Start: 1 @12427 has 42 MA's), (2, 12487), (3, 12511), (5, 12592), (10, 12784),

Gene: Haunter\_24 Start: 12269, Stop: 12637, Start Num: 1

Candidate Starts for Haunter\_24:

(Start: 1 @12269 has 42 MA's), (2, 12329), (3, 12353), (5, 12434), (10, 12626),

Gene: Hiddenleaf\_23 Start: 12057, Stop: 12428, Start Num: 1

Candidate Starts for Hiddenleaf\_23:

(Start: 1 @12057 has 42 MA's), (2, 12117), (3, 12141), (4, 12213), (5, 12222), (6, 12255), (8, 12354), (9, 12390), (10, 12417),

Gene: JDawG\_23 Start: 12639, Stop: 13010, Start Num: 1

Candidate Starts for JDawG\_23:

(Start: 1 @12639 has 42 MA's), (2, 12699), (3, 12723), (5, 12804), (6, 12837), (8, 12936), (9, 12972), (10, 12999),

Gene: JingleBells\_23 Start: 12138, Stop: 12509, Start Num: 1

Candidate Starts for JingleBells\_23:

(Start: 1 @12138 has 42 MA's), (2, 12198), (3, 12222), (4, 12294), (5, 12303), (6, 12336), (8, 12435), (9, 12471), (10, 12498),

Gene: Karate\_23 Start: 12277, Stop: 12645, Start Num: 1

Candidate Starts for Karate\_23:

(Start: 1 @12277 has 42 MA's), (2, 12337), (3, 12361), (5, 12442), (10, 12634),

Gene: Kate\_24 Start: 12864, Stop: 13232, Start Num: 1

Candidate Starts for Kate\_24:

(Start: 1 @12864 has 42 MA's), (2, 12924), (3, 12948), (5, 13029), (10, 13221),

Gene: Kors\_25 Start: 12893, Stop: 13222, Start Num: 1

Candidate Starts for Kors\_25:

(Start: 1 @12893 has 42 MA's), (5, 13019), (7, 13088), (10, 13211),

Gene: Krampus\_24 Start: 12862, Stop: 13230, Start Num: 1

Candidate Starts for Krampus\_24:

(Start: 1 @12862 has 42 MA's), (2, 12922), (3, 12946), (5, 13027), (10, 13219),

Gene: LordBart\_25 Start: 12809, Stop: 13138, Start Num: 1

Candidate Starts for LordBart\_25:

(Start: 1 @12809 has 42 MA's), (5, 12935), (7, 13004), (10, 13127),

Gene: MortySmith\_22 Start: 12036, Stop: 12407, Start Num: 1

Candidate Starts for MortySmith\_22:

(Start: 1 @12036 has 42 MA's), (2, 12096), (3, 12120), (5, 12201), (6, 12234), (8, 12333), (9, 12369), (10, 12396),

Gene: NarutoRun\_24 Start: 12855, Stop: 13223, Start Num: 1

Candidate Starts for NarutoRun\_24:

(Start: 1 @12855 has 42 MA's), (2, 12915), (3, 12939), (5, 13020), (10, 13212),

Gene: Neptune\_24 Start: 12832, Stop: 13200, Start Num: 1

Candidate Starts for Neptune\_24:

(Start: 1 @12832 has 42 MA's), (2, 12892), (3, 12916), (5, 12997), (10, 13189),

Gene: OhDear\_24 Start: 12861, Stop: 13229, Start Num: 1

Candidate Starts for OhDear\_24:

(Start: 1 @12861 has 42 MA's), (2, 12921), (3, 12945), (5, 13026), (10, 13218),

Gene: OverHedge\_24 Start: 12829, Stop: 13200, Start Num: 1

Candidate Starts for OverHedge\_24:

(Start: 1 @12829 has 42 MA's), (2, 12889), (3, 12913), (5, 12994), (6, 13027), (8, 13126), (9, 13162), (10, 13189),

Gene: Pharpay\_24 Start: 12877, Stop: 13245, Start Num: 1

Candidate Starts for Pharpay\_24:

(Start: 1 @12877 has 42 MA's), (2, 12937), (3, 12961), (5, 13042), (10, 13234),

Gene: PhunaPhoke\_24 Start: 12850, Stop: 13218, Start Num: 1

Candidate Starts for PhunaPhoke\_24:

(Start: 1 @12850 has 42 MA's), (2, 12910), (3, 12934), (5, 13015), (10, 13207),

Gene: Potty\_24 Start: 12855, Stop: 13223, Start Num: 1

Candidate Starts for Potty\_24:

(Start: 1 @12855 has 42 MA's), (2, 12915), (3, 12939), (5, 13020), (10, 13212),

Gene: Poultruss\_23 Start: 12628, Stop: 12996, Start Num: 1

Candidate Starts for Poultruss\_23:

(Start: 1 @12628 has 42 MA's), (2, 12688), (3, 12712), (5, 12793), (10, 12985),

Gene: Rachella\_24 Start: 12858, Stop: 13226, Start Num: 1

Candidate Starts for Rachella\_24:

(Start: 1 @12858 has 42 MA's), (2, 12918), (3, 12942), (5, 13023), (10, 13215),

Gene: Rie18\_24 Start: 12209, Stop: 12577, Start Num: 1

Candidate Starts for Rie18\_24:

(Start: 1 @12209 has 42 MA's), (2, 12269), (3, 12293), (5, 12374), (10, 12566),

Gene: RikSengupta\_25 Start: 12930, Stop: 13259, Start Num: 1

Candidate Starts for RikSengupta\_25:

(Start: 1 @12930 has 42 MA's), (5, 13056), (7, 13125), (10, 13248),

Gene: SilentWarrior\_23 Start: 12065, Stop: 12436, Start Num: 1

Candidate Starts for SilentWarrior\_23:

(Start: 1 @12065 has 42 MA's), (2, 12125), (3, 12149), (4, 12221), (5, 12230), (6, 12263), (8, 12362), (9, 12398), (10, 12425),

Gene: Snakehole\_25 Start: 12154, Stop: 12525, Start Num: 1

Candidate Starts for Snakehole\_25:

(Start: 1 @12154 has 42 MA's), (2, 12214), (3, 12238), (4, 12310), (5, 12319), (6, 12352), (8, 12451), (9, 12487), (10, 12514),

Gene: Sparcetus\_25 Start: 12809, Stop: 13138, Start Num: 1

Candidate Starts for Sparcetus\_25:

(Start: 1 @12809 has 42 MA's), (5, 12935), (7, 13004), (10, 13127),

Gene: Tedro\_24 Start: 12328, Stop: 12696, Start Num: 1

Candidate Starts for Tedro\_24:

(Start: 1 @12328 has 42 MA's), (2, 12388), (3, 12412), (5, 12493), (10, 12685),

Gene: Tiggy93\_24 Start: 12861, Stop: 13229, Start Num: 1

Candidate Starts for Tiggy93\_24:

(Start: 1 @12861 has 42 MA's), (2, 12921), (3, 12945), (5, 13026), (10, 13218),

Gene: TinyMiny\_25 Start: 12828, Stop: 13157, Start Num: 1

Candidate Starts for TinyMiny\_25:

(Start: 1 @12828 has 42 MA's), (5, 12954), (7, 13023), (10, 13146),

Gene: Tongui\_23 Start: 12201, Stop: 12569, Start Num: 1

Candidate Starts for Tongui\_23:

(Start: 1 @12201 has 42 MA's), (2, 12261), (3, 12285), (5, 12366), (9, 12534), (10, 12558),